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 : P3671

ATTENTION : Mary I. Murphy

Laboratory Certification ID # 20012

Table Of Contents for P3671

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 14

9) QC Data Summary For VOCMS Group5 15

- 9.1) Deuterated Monitoring Compound Summary 16
- 9.2) LCS/LCSD Summary 18
- 9.3) Method Blank Summary 21
- 9.4) GS/MS Tune Summary 23
- 9.5) Internal Standard Area and RT Summary 26

10) Sample Data 30

- 10.1) S-904-J-SO-0-0.5-081924 31
- 10.2) S-904-J-SO-0.5-1.0-081924 39
- 10.3) S-911-K1-SO-0-0.5-081924 48
- 10.4) S-911-K1-SO-0-0.5-081924RE 56
- 10.5) S-911-K1-SO-0.5-1-081924 64
- 10.6) S-911-K1-SO-0.5-1-081924RE 72
- 10.7) S-911-K1-SO-0-0.5-081924-FD 80
- 10.8) S-911-K1-SO-0-0.5-081924-FDRE 88
- 10.9) S-905-KJ-SO-0-0.5-081924 96
- 10.10) S-905-KJ-SO-0-0.5-081924-FD 105
- 10.11) S-905-J-SO-0.5-1.0-081924 115
- 10.12) S-928-K1-SO-0-0.5-081924 124
- 10.13) S-928-K1-SO-0-0.5-081924RE 132
- 10.14) S-928-K1-SO-0.5-1-081924 140
- 10.15) S-928-K1-SO-0.5-1-081924RE 148
- 10.16) S-903-J-SO-0-0.5-081924 156
- 10.17) S-903-J-SO-0.5-1.0-081924 166
- 10.18) S-912-J-SO-0-0.5-081924 175
- 10.19) S-912-J-SO-0-0.5-081924RE 183
- 10.20) S-912-J-SO-0.5-1-081924 191

11) Calibration Data Summary 199
11.1) Initial Calibration Data 200
11.1.1) VY081524 200
11.2) Continued Calibration Data 578
11.2.1) VY019191.D 578
11.2.2) VY019211.D 638
12) QC Sample Data 698
12.1) Tune Raw Data 699
12.2) Method Blank Data 702
12.3) LCS Data 718
12.4) LCSD Data 826
13) Manual Integration 880
14) Analytical Runlogs 884
15) Percent Solid 896
16) Standard Prep Logs 905
17) VOC Preservation Log 1006
18) Shipping Document 1007
18.1) Chain Of Custody 1008
18.2) Lab Certificate 1010
18.3) Internal COC 1011

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

Cover Page

Order ID : P3671

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number	Client Sample Number
P3671-01	S-904-J-SO-0-0.5-081924
P3671-02	S-904-J-SO-0.5-1.0-081924
P3671-03	S-911-K1-SO-0-0.5-081924
P3671-04	S-911-K1-SO-0.5-1-081924
P3671-05	S-911-K1-SO-0-0.5-081924-FD
P3671-06	S-905-KJ-SO-0-0.5-081924
P3671-07	S-905-KJ-SO-0-0.5-081924-FD
P3671-08	S-905-J-SO-0.5-1.0-081924
P3671-09	S-928-K1-SO-0-0.5-081924
P3671-10	S-928-K1-SO-0.5-1-081924
P3671-11	S-903-J-SO-0-0.5-081924
P3671-12	S-903-J-SO-0.5-1.0-081924
P3671-13	S-912-J-SO-0-0.5-081924
P3671-14	S-912-J-SO-0.5-1-081924
P3671-15	TB-01-081924

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 : N. N. Pandya

APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/24/2024, 8:30:54 AM

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 # P3671
Test Name: VOCMS Group5

A. Number of Samples and Date of Receipt:
14 Solid samples were received on 08/19/2024.
1 Water sample was received on 08/19/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group5, TOC, VOCMS Group 4, VOCMS Group3, VOCMS Group5 and VOCMS Group6. This data package contains results for VOCMS Group5.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624Sil MS, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator.The analysis of VOCMS Group5 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for
S-911-K1-SO-0-0.5-081924 [4-Bromofluorobenzene - 51%],
S-911-K1-SO-0.5-1-081924 [4-Bromofluorobenzene - 69%],
S-911-K1-SO-0.5-1-081924RE [4-Bromofluorobenzene - 61%],
S-911-K1-SO-0-0.5-081924-FDRE [4-Bromofluorobenzene - 57%],
S-928-K1-SO-0-0.5-081924RE [4-Bromofluorobenzene - 68%],
S-928-K1-SO-0.5-1-081924RE [4-Bromofluorobenzene - 69%],
S-912-J-SO-0-0.5-081924 [4-Bromofluorobenzene - 57%] and
S-912-J-SO-0-0.5-081924RE [4-Bromofluorobenzene - 55%] these surrogates did not meet the NJDKQP criteria but met the in-house criteria while

S-928-K1-SO-0.5-1-081924 [1,2-Dichloroethane-d4 - 36%, 4-Bromofluorobenzene - 17%], these compounds did not meet the NJDKQP criteria and in-house criteria, therefore sample was reanalyzed to confirm the failure and reported.

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

The Internal Standards Areas met the acceptable requirements except for S-911-K1-SO-0-0.5-081924, S-911-K1-SO-0-0.5-081924RE, S-911-K1-SO-0.5-1-081924, S-911-K1-SO-0.5-1-081924RE, S-911-K1-SO-0-0.5-081924-FD, S-911-K1-SO-0-0.5-081924-FDRE, S-928-K1-SO-0-0.5-081924, S-928-K1-SO-0-0.5-081924RE, S-928-K1-SO-0.5-1-081924, S-928-K1-SO-0.5-1-081924RE, S-912-J-SO-0-0.5-081924 and S-912-J-SO-0-0.5-081924RE.

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

The %RSD is greater than 15% in the Initial Calibration method (82Y081524S.M) for Bromomethane, Methylene Chloride , Cyclohexane this compound is passing on Linear Regression while Chloroethane this compound is passing on Quadratic Regression.

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

E. Additional Comments:
This data package has been revised due to parameter list changed.
Samples for MS/MSD for VOC analysis were not provided with this set of samples.
The Blank Spike Duplicate is reported with the data.

The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature N. N. Pandya

APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/24/2024, 8:31:06 AM

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

QA Control # A3040960

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P3671 MATRIX: Solid

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.		✓	
	The %RSD is greater than 15% in the Initial Calibration method (82Y081524S.M) for Bromomethane, Methylene Chloride , Cyclohexane this compound is passing on Linear Regression while Chloroethane this compound is passing on Quadratic Regression. The Continuous Calibration met requirements.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for S-911-K1-SO-0-0.5-081924 [4-Bromofluorobenzene - 51%], S-911-K1-SO-0.5-1-081924 [4-Bromofluorobenzene - 69%], S-911-K1-SO-0.5-1-081924RE [4-Bromofluorobenzene - 61%], S-911-K1-SO-0-0.5-081924-FDRE [4-Bromofluorobenzene - 57%], S-928-K1-SO-0-0.5-081924RE [4-Bromofluorobenzene - 68%], S-928-K1-SO-0.5-1-081924RE [4-Bromofluorobenzene - 69%], S-912-J-SO-0-0.5-081924 [4-Bromofluorobenzene - 57%] and S-912-J-SO-0-0.5-081924RE [4-Bromofluorobenzene - 55%] these surrogates did not meet the NJDKQP criteria but met the in-house criteria while S-928-K1-SO-0.5-1-081924 [1,2-Dichloroethane-d4 - 36%, 4-Bromofluorobenzene - 17%], these compounds did not meet the NJDKQP criteria and in-house criteria, therefore sample was reanalyzed to confirm the failure and reported.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

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

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments: The Internal Standards Areas met the acceptable requirements except for S-911-K1-SO-0-0.5-081924, S-911-K1-SO-0-0.5-081924RE, S-911-K1-SO-0.5-1-081924, S-911-K1-SO-0.5-1-081924RE, S-911-K1-SO-0-0.5-081924-FD, S-911-K1-SO-0-0.5-081924-FDRE, S-928-K1-SO-0-0.5-081924, S-928-K1-SO-0-0.5-081924RE, S-928-K1-SO-0.5-1-081924, S-928-K1-SO-0.5-1-081924RE, S-912-J-SO-0-0.5-081924 and S-912-J-SO-0-0.5-081924RE.			
10.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
	The Holding Times were met for all analysis.			

ADDITIONAL COMMENTS:

This data package has been revised due to parameter list changed.

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

The soil samples results are based on a dry weight basis.

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.

N. N. Pandya

APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/24/2024, 8:31:15 AM

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 #: P3671

	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:** 10/14/2024

2nd Level QA Review Signature: N. N. Pandya

APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/24/2024, 8:31:23 AM

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

LAB CHRONICLE

OrderID:	P3671	**OrderDate:**	8/20/2024 10:36:00 AM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	**Location:**	G11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3671-01	**S-904-J-SO-0-0.5-081924**	**SOIL**			**08/19/24**			**08/19/24**
			VOCMS Group5	8260D			08/22/24	
P3671-02	**S-904-J-SO-0.5-1.0-081924**	**SOIL**			**08/19/24**			**08/19/24**
			VOCMS Group5	8260D			08/22/24	
P3671-03	**S-911-K1-SO-0-0.5-081924**	**SOIL**			**08/19/24**			**08/19/24**
			VOCMS Group5	8260D			08/22/24	
P3671-03RE	**S-911-K1-SO-0-0.5-081924RE**	**SOIL**			**08/19/24**			**08/19/24**
			VOCMS Group5	8260D			08/22/24	
P3671-04	**S-911-K1-SO-0.5-1-081924**	**SOIL**			**08/19/24**			**08/19/24**
			VOCMS Group5	8260D			08/22/24	
P3671-04RE	**S-911-K1-SO-0.5-1-081924RE**	**SOIL**			**08/19/24**			**08/19/24**
			VOCMS Group5	8260D			08/22/24	
P3671-05	**S-911-K1-SO-0-0.5-081924-FD**	**SOIL**			**08/19/24**			**08/19/24**
			VOCMS Group5	8260D			08/22/24	
P3671-05RE	**S-911-K1-SO-0-0.5-081924-FDRE**	**SOIL**			**08/19/24**			**08/19/24**
			VOCMS Group5	8260D			08/22/24	
P3671-06	**S-905-KJ-SO-0-0.5-081924**	**SOIL**			**08/19/24**			**08/19/24**
			VOCMS Group5	8260D			08/22/24	

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

LAB CHRONICLE

P3671-07	**S-905-KJ-SO-0-0.5-081924-FD**	**SOIL**			**08/19/24**		**08/19/24**
			VOCMS Group5	8260D		08/22/24	
P3671-08	**S-905-J-SO-0.5-1.0-081924**	**SOIL**			**08/19/24**		**08/19/24**
			VOCMS Group5	8260D		08/22/24	
P3671-09	**S-928-K1-SO-0-0.5-081924**	**SOIL**			**08/19/24**		**08/19/24**
			VOCMS Group5	8260D		08/22/24	
P3671-09RE	**S-928-K1-SO-0-0.5-081924RE**	**SOIL**			**08/19/24**		**08/19/24**
			VOCMS Group5	8260D		08/22/24	
P3671-10	**S-928-K1-SO-0.5-1-081924**	**SOIL**			**08/19/24**		**08/19/24**
			VOCMS Group5	8260D		08/22/24	
P3671-10RE	**S-928-K1-SO-0.5-1-081924RE**	**SOIL**			**08/19/24**		**08/19/24**
			VOCMS Group5	8260D		08/22/24	
P3671-11	**S-903-J-SO-0-0.5-081924**	**SOIL**			**08/19/24**		**08/19/24**
			VOCMS Group5	8260D		08/22/24	
P3671-12	**S-903-J-SO-0.5-1.0-081924**	**SOIL**			**08/19/24**		**08/19/24**
			VOCMS Group5	8260D		08/22/24	
P3671-13	**S-912-J-SO-0-0.5-081924**	**SOIL**			**08/19/24**		**08/19/24**
			VOCMS Group5	8260D		08/22/24	
P3671-13RE	**S-912-J-SO-0-0.5-081924RE**	**SOIL**			**08/19/24**		**08/19/24**
			VOCMS Group5	8260D		08/22/24	
P3671-14	**S-912-J-SO-0.5-1-081924**	**SOIL**			**08/19/24**		**08/19/24**
			VOCMS Group5	8260D		08/22/24	

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

LAB CHRONICLE

P3671-15	**TB-01-081924**	**Water**		**08/19/24**		**08/19/24**
			VOCMS Group6	8260-Low	08/22/24	

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

Hit Summary Sheet
SW-846

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**S-904-J-SO-0.5-1.0-081924**							
P3671-02	S-904-J-SO-0.5-1.0-	SOIL	Acetone	65.9		4.80	19.0	ug/Kg
P3671-02	S-904-J-SO-0.5-1.0-	SOIL	2-Butanone	13.2	J	4.30	19.0	ug/Kg
			Total Voc :	79.1				
			Total Concentration:	79.1				
Client ID:	**S-905-KJ-SO-0-0.5-081924**							
P3671-06	S-905-KJ-SO-0-0.5-	SOIL	Trichloroethene	1.20	J	0.61	4.10	ug/Kg
			Total Voc :	1.20				
			Total Concentration:	1.20				
Client ID:	**S-905-KJ-SO-0-0.5-081924-FD**							
P3671-07	S-905-KJ-SO-0-0.5-	SOIL	Acetone	20.6	J	5.80	23.2	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-	SOIL	cis-1,2-Dichloroethene	2.10	J	0.57	4.60	ug/Kg
P3671-07	S-905-KJ-SO-0-0.5-	SOIL	Trichloroethene	1.10	J	0.70	4.60	ug/Kg
			Total Voc :	23.8				
			Total Concentration:	23.8				
Client ID:	**S-905-J-SO-0.5-1.0-081924**							
P3671-08	S-905-J-SO-0.5-1.0-	SOIL	Acetone	24.0		3.90	15.8	ug/Kg
P3671-08	S-905-J-SO-0.5-1.0-	SOIL	2-Butanone	4.10	J	3.60	15.8	ug/Kg
			Total Voc :	28.1				
			Total Concentration:	28.1				
Client ID:	**S-903-J-SO-0-0.5-081924**							
P3671-11	S-903-J-SO-0-0.5-0	SOIL	Trichloroethene	1.10	J	0.58	3.90	ug/Kg
P3671-11	S-903-J-SO-0-0.5-0	SOIL	Tetrachloroethene	1.40	J	0.69	3.90	ug/Kg
			Total Voc :	2.50				
			Total Concentration:	2.50				
Client ID:	**S-903-J-SO-0.5-1.0-081924**							
P3671-12	S-903-J-SO-0.5-1.0-	SOIL	Trichloroethene	3.40	J	0.53	3.60	ug/Kg
P3671-12	S-903-J-SO-0.5-1.0-	SOIL	Tetrachloroethene	4.00		0.63	3.60	ug/Kg
			Total Voc :	7.40				
			Total Concentration:	7.40				

QC SUMMARY

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

Surrogate Summary

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
P3671-01	S-904-J-SO-0-0.5-081924	1,2-Dichloroethane-d4	50	56.3	113		70 (50)	130 (163)
		Dibromofluoromethane	50	55.0	110		70 (54)	130 (147)
		Toluene-d8	50	57.2	114		70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.0	100		70 (29)	130 (146)
P3671-02	S-904-J-SO-0.5-1.0-081924	1,2-Dichloroethane-d4	50	50.6	101		70 (50)	130 (163)
		Dibromofluoromethane	50	49.1	98		70 (54)	130 (147)
		Toluene-d8	50	47.2	94		70 (58)	130 (134)
		4-Bromofluorobenzene	50	40.2	80		70 (29)	130 (146)
P3671-03	S-911-K1-SO-0-0.5-081924	1,2-Dichloroethane-d4	50	40.8	82		70 (50)	130 (163)
		Dibromofluoromethane	50	46.6	93		70 (54)	130 (147)
		Toluene-d8	50	44.4	89		70 (58)	130 (134)
		4-Bromofluorobenzene	50	25.3	51	*	70 (29)	130 (146)
P3671-03RE	S-911-K1-SO-0-0.5-081924RE	1,2-Dichloroethane-d4	50	45.6	91		70 (50)	130 (163)
		Dibromofluoromethane	50	52.5	105		70 (54)	130 (147)
		Toluene-d8	50	45.0	90		70 (58)	130 (134)
		4-Bromofluorobenzene	50	38.0	76		70 (29)	130 (146)
P3671-04	S-911-K1-SO-0.5-1-081924	1,2-Dichloroethane-d4	50	51.7	103		70 (50)	130 (163)
		Dibromofluoromethane	50	51.0	102		70 (54)	130 (147)
		Toluene-d8	50	47.7	95		70 (58)	130 (134)
		4-Bromofluorobenzene	50	34.3	69	*	70 (29)	130 (146)
P3671-04RE	S-911-K1-SO-0.5-1-081924RE	1,2-Dichloroethane-d4	50	36.7	73		70 (50)	130 (163)
		Dibromofluoromethane	50	53.4	107		70 (54)	130 (147)
		Toluene-d8	50	54.0	108		70 (58)	130 (134)
		4-Bromofluorobenzene	50	30.3	61	*	70 (29)	130 (146)
P3671-05	S-911-K1-SO-0-0.5-081924-FD	1,2-Dichloroethane-d4	50	51.9	104		70 (50)	130 (163)
		Dibromofluoromethane	50	50.3	101		70 (54)	130 (147)
		Toluene-d8	50	46.8	94		70 (58)	130 (134)
		4-Bromofluorobenzene	50	36.5	73		70 (29)	130 (146)
P3671-05RE	S-911-K1-SO-0-0.5-081924-FDRE	1,2-Dichloroethane-d4	50	53.9	108		70 (50)	130 (163)
		Dibromofluoromethane	50	48.6	97		70 (54)	130 (147)
		Toluene-d8	50	45.2	90		70 (58)	130 (134)
		4-Bromofluorobenzene	50	28.6	57	*	70 (29)	130 (146)
P3671-06	S-905-KJ-SO-0-0.5-081924	1,2-Dichloroethane-d4	50	55.0	110		70 (50)	130 (163)
		Dibromofluoromethane	50	49.8	100		70 (54)	130 (147)
		Toluene-d8	50	48.2	96		70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.0	88		70 (29)	130 (146)
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	1,2-Dichloroethane-d4	50	58.0	116		70 (50)	130 (163)
		Dibromofluoromethane	50	50.2	100		70 (54)	130 (147)
		Toluene-d8	50	48.1	96		70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.0	94		70 (29)	130 (146)
P3671-08	S-905-J-SO-0.5-1.0-081924	1,2-Dichloroethane-d4	50	56.7	113		70 (50)	130 (163)
		Dibromofluoromethane	50	49.8	100		70 (54)	130 (147)
		Toluene-d8	50	48.6	97		70 (58)	130 (134)
		4-Bromofluorobenzene	50	45.2	90		70 (29)	130 (146)
P3671-09	S-928-K1-SO-0-0.5-081924	1,2-Dichloroethane-d4	50	53.6	107		70 (50)	130 (163)
		Dibromofluoromethane	50	48.5	97		70 (54)	130 (147)
		Toluene-d8	50	51.1	102		70 (58)	130 (134)
		4-Bromofluorobenzene	50	41.3	82		70 (29)	130 (146)
P3671-09RE	S-928-K1-SO-0-0.5-081924RE	1,2-Dichloroethane-d4	50	48.9	98		70 (50)	130 (163)
		Dibromofluoromethane	50	50.7	101		70 (54)	130 (147)

( ) = LABORATORY INHOUSE LIMIT

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

Surrogate Summary

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
P3671-09RE	S-928-K1-SO-0-0.5-081924RE	Toluene-d8	50	48.7	97		70 (58)	130 (134)
		4-Bromofluorobenzene	50	34.0	68	*	70 (29)	130 (146)
P3671-10	S-928-K1-SO-0.5-1-081924	1,2-Dichloroethane-d4	50	18.0	36	*	70 (50)	130 (163)
		Dibromofluoromethane	50	39.2	78		70 (54)	130 (147)
		Toluene-d8	50	41.8	84		70 (58)	130 (134)
		4-Bromofluorobenzene	50	8.44	17	*	70 (29)	130 (146)
P3671-10RE	S-928-K1-SO-0.5-1-081924RE	1,2-Dichloroethane-d4	50	54.0	108		70 (50)	130 (163)
		Dibromofluoromethane	50	47.9	96		70 (54)	130 (147)
		Toluene-d8	50	47.5	95		70 (58)	130 (134)
		4-Bromofluorobenzene	50	34.3	69	*	70 (29)	130 (146)
P3671-11	S-903-J-SO-0-0.5-081924	1,2-Dichloroethane-d4	50	54.0	108		70 (50)	130 (163)
		Dibromofluoromethane	50	49.5	99		70 (54)	130 (147)
		Toluene-d8	50	48.4	97		70 (58)	130 (134)
		4-Bromofluorobenzene	50	48.2	96		70 (29)	130 (146)
P3671-12	S-903-J-SO-0.5-1.0-081924	1,2-Dichloroethane-d4	50	48.0	96		70 (50)	130 (163)
		Dibromofluoromethane	50	51.3	103		70 (54)	130 (147)
		Toluene-d8	50	52.2	104		70 (58)	130 (134)
		4-Bromofluorobenzene	50	46.3	93		70 (29)	130 (146)
P3671-13	S-912-J-SO-0-0.5-081924	1,2-Dichloroethane-d4	50	51.2	102		70 (50)	130 (163)
		Dibromofluoromethane	50	51.6	103		70 (54)	130 (147)
		Toluene-d8	50	48.1	96		70 (58)	130 (134)
		4-Bromofluorobenzene	50	28.3	57	*	70 (29)	130 (146)
P3671-13RE	S-912-J-SO-0-0.5-081924RE	1,2-Dichloroethane-d4	50	47.9	96		70 (50)	130 (163)
		Dibromofluoromethane	50	49.4	99		70 (54)	130 (147)
		Toluene-d8	50	46.9	94		70 (58)	130 (134)
		4-Bromofluorobenzene	50	27.5	55	*	70 (29)	130 (146)
P3671-14	S-912-J-SO-0.5-1-081924	1,2-Dichloroethane-d4	50	59.8	120		70 (50)	130 (163)
		Dibromofluoromethane	50	46.2	92		70 (54)	130 (147)
		Toluene-d8	50	48.5	97		70 (58)	130 (134)
		4-Bromofluorobenzene	50	36.8	74		70 (29)	130 (146)
VY0821SBL02	VY0821SBL02	1,2-Dichloroethane-d4	50	57.0	114		70 (50)	130 (163)
		Dibromofluoromethane	50	51.6	103		70 (54)	130 (147)
		Toluene-d8	50	49.5	99		70 (58)	130 (134)
		4-Bromofluorobenzene	50	45.5	91		70 (29)	130 (146)
VY0821SBS02	VY0821SBS02	1,2-Dichloroethane-d4	50	49.8	100		70 (50)	130 (163)
		Dibromofluoromethane	50	50.5	101		70 (54)	130 (147)
		Toluene-d8	50	50.0	100		70 (58)	130 (134)
		4-Bromofluorobenzene	50	48.0	96		70 (29)	130 (146)
VY0821SBSD02	VY0821SBSD02	1,2-Dichloroethane-d4	50	51.8	104		70 (50)	130 (163)
		Dibromofluoromethane	50	47.9	96		70 (54)	130 (147)
		Toluene-d8	50	47.4	95		70 (58)	130 (134)
		4-Bromofluorobenzene	50	46.9	94		70 (29)	130 (146)
VY0822SBL01	VY0822SBL01	1,2-Dichloroethane-d4	50	50.0	100		70 (50)	130 (163)
		Dibromofluoromethane	50	48.1	96		70 (54)	130 (147)
		Toluene-d8	50	47.0	94		70 (58)	130 (134)
		4-Bromofluorobenzene	50	41.5	83		70 (29)	130 (146)
VY0822SBS01	VY0822SBS01	1,2-Dichloroethane-d4	50	51.7	103		70 (50)	130 (163)
		Dibromofluoromethane	50	51.6	103		70 (54)	130 (147)
		Toluene-d8	50	52.5	105		70 (58)	130 (134)
		4-Bromofluorobenzene	50	52.8	106		70 (29)	130 (146)

( ) = 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.: P3671

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260D **Datafile :** VY019193.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0821SBS02	Dichlorodifluoromethane	20	22.4	ug/Kg	112			40 (64)	160 (136)	
	Chloromethane	20	19.7	ug/Kg	99			40 (70)	160 (130)	
	Vinyl chloride	20	18.8	ug/Kg	94			70 (72)	130 (129)	
	Bromomethane	20	20.0	ug/Kg	100			40 (58)	160 (141)	
	Chloroethane	20	17.7	ug/Kg	89			40 (69)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	20	20.5	ug/Kg	103			70 (81)	130 (123)	
	1,1-Dichloroethene	20	21.1	ug/Kg	106			70 (79)	130 (121)	
	Acetone	100	100	ug/Kg	100			40 (60)	160 (131)	
	Carbon disulfide	20	20.1	ug/Kg	101			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	22.0	ug/Kg	110			70 (77)	130 (129)	
	Methylene Chloride	20	21.2	ug/Kg	106			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	21.0	ug/Kg	105			70 (80)	130 (123)	
	1,1-Dichloroethane	20	21.9	ug/Kg	110			70 (82)	130 (123)	
	Cyclohexane	20	16.5	ug/Kg	83			70 (76)	130 (122)	
	2-Butanone	100	91.8	ug/Kg	92			40 (69)	160 (131)	
	Carbon Tetrachloride	20	18.8	ug/Kg	94			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.6	ug/Kg	103			70 (82)	130 (123)	
	Chloroform	20	20.3	ug/Kg	102			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.9	ug/Kg	100			70 (80)	130 (126)	
	Methylcyclohexane	20	16.6	ug/Kg	83			70 (77)	130 (123)	
	Benzene	20	18.9	ug/Kg	95			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.0	ug/Kg	95			70 (81)	130 (126)	
	Trichloroethene	20	18.7	ug/Kg	94			70 (83)	130 (122)	
	Bromodichloromethane	20	19.2	ug/Kg	96			70 (82)	130 (123)	
	Toluene	20	18.8	ug/Kg	94			70 (83)	130 (122)	
	1,1,2-Trichloroethane	20	19.3	ug/Kg	97			70 (82)	130 (125)	
	Dibromochloromethane	20	17.9	ug/Kg	90			70 (79)	130 (125)	
	Tetrachloroethene	20	20.7	ug/Kg	104			70 (83)	130 (125)	
	Chlorobenzene	20	19.3	ug/Kg	97			70 (84)	130 (122)	
	Ethyl Benzene	20	18.4	ug/Kg	92			70 (82)	130 (124)	
	m/p-Xylenes	40	37.7	ug/Kg	94			70 (83)	130 (124)	
	o-Xylene	20	19.3	ug/Kg	97			70 (83)	130 (123)	
	Isopropylbenzene	20	19.4	ug/Kg	97			70 (82)	130 (124)	
	1,4-Dichlorobenzene	20	18.6	ug/Kg	93			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.0	ug/Kg	95			70 (83)	130 (124)	

( ) = 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.: P3671

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260D **Datafile :** VY019194.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0821SBSD02	Dichlorodifluoromethane	20	20.2	ug/Kg	101	10		40 (64)	160 (136)	30 (20)
	Chloromethane	20	17.8	ug/Kg	89	11		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	17.1	ug/Kg	86	9		70 (72)	130 (129)	30 (20)
	Bromomethane	20	17.5	ug/Kg	88	13		40 (58)	160 (141)	30 (20)
	Chloroethane	20	16.3	ug/Kg	81	9		40 (69)	160 (130)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.2	ug/Kg	96	7		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	19.4	ug/Kg	97	9		70 (79)	130 (121)	30 (20)
	Acetone	100	100	ug/Kg	100	0		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	18.6	ug/Kg	93	8		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	21.0	ug/Kg	105	5		70 (77)	130 (129)	30 (20)
	Methylene Chloride	20	19.0	ug/Kg	95	11		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	19.7	ug/Kg	99	6		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	20.1	ug/Kg	101	9		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	18.4	ug/Kg	92	10		70 (76)	130 (122)	30 (20)
	2-Butanone	100	100	ug/Kg	100	8		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.4	ug/Kg	102	8		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103	0		70 (82)	130 (123)	30 (20)
	Chloroform	20	20.7	ug/Kg	104	2		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.9	ug/Kg	104	4		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	17.8	ug/Kg	89	7		70 (77)	130 (123)	30 (20)
	Benzene	20	19.7	ug/Kg	99	4		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	21.6	ug/Kg	108	13		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	19.0	ug/Kg	95	1		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	19.7	ug/Kg	99	3		70 (82)	130 (123)	30 (20)
	Toluene	20	19.5	ug/Kg	98	4		70 (83)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101	4		70 (82)	130 (125)	30 (20)
	Dibromochloromethane	20	19.5	ug/Kg	98	9		70 (79)	130 (125)	30 (20)
	Tetrachloroethene	20	20.3	ug/Kg	102	2		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	18.9	ug/Kg	95	2		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	18.9	ug/Kg	95	3		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	36.8	ug/Kg	92	2		70 (83)	130 (124)	30 (20)
	o-Xylene	20	18.6	ug/Kg	93	4		70 (83)	130 (123)	30 (20)
	Isopropylbenzene	20	20.4	ug/Kg	102	5		70 (82)	130 (124)	30 (20)
	1,4-Dichlorobenzene	20	19.2	ug/Kg	96	3		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	19.4	ug/Kg	97	2		70 (83)	130 (124)	30 (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.: P3671

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260D **Datafile :** VY019213.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0822SBS01	Dichlorodifluoromethane	20	20.1	ug/Kg	101			40 (64)	160 (136)	
	Chloromethane	20	17.6	ug/Kg	88			40 (70)	160 (130)	
	Vinyl chloride	20	18.2	ug/Kg	91			70 (72)	130 (129)	
	Bromomethane	20	21.3	ug/Kg	106			40 (58)	160 (141)	
	Chloroethane	20	18.1	ug/Kg	91			40 (69)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/Kg	101			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.1	ug/Kg	96			70 (79)	130 (121)	
	Acetone	100	100	ug/Kg	100			40 (60)	160 (131)	
	Carbon disulfide	20	18.4	ug/Kg	92			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.8	ug/Kg	99			70 (77)	130 (129)	
	Methylene Chloride	20	16.7	ug/Kg	84			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.9	ug/Kg	100			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.4	ug/Kg	97			70 (82)	130 (123)	
	Cyclohexane	20	18.6	ug/Kg	93			70 (76)	130 (122)	
	2-Butanone	100	98.8	ug/Kg	99			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.4	ug/Kg	102			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.8	ug/Kg	99			70 (82)	130 (123)	
	Chloroform	20	20.4	ug/Kg	102			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.4	ug/Kg	102			70 (80)	130 (126)	
	Methylcyclohexane	20	18.8	ug/Kg	94			70 (77)	130 (123)	
	Benzene	20	19.9	ug/Kg	100			70 (84)	130 (121)	
	1,2-Dichloroethane	20	18.9	ug/Kg	95			70 (81)	130 (126)	
	Trichloroethene	20	20.2	ug/Kg	101			70 (83)	130 (122)	
	Bromodichloromethane	20	20.4	ug/Kg	102			70 (82)	130 (123)	
	Toluene	20	20.3	ug/Kg	102			70 (83)	130 (122)	
	1,1,2-Trichloroethane	20	21.4	ug/Kg	107			70 (82)	130 (125)	
	Dibromochloromethane	20	20.0	ug/Kg	100			70 (79)	130 (125)	
	Tetrachloroethene	20	20.3	ug/Kg	102			70 (83)	130 (125)	
	Chlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (122)	
	Ethyl Benzene	20	19.5	ug/Kg	98			70 (82)	130 (124)	
	m/p-Xylenes	40	38.8	ug/Kg	97			70 (83)	130 (124)	
	o-Xylene	20	19.5	ug/Kg	98			70 (83)	130 (123)	
	Isopropylbenzene	20	19.4	ug/Kg	97			70 (82)	130 (124)	
	1,4-Dichlorobenzene	20	19.2	ug/Kg	96			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99			70 (83)	130 (124)	

( ) = 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.

VY0821SBL02

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3671 SAS No.: P3671 SDG NO.: P3671

Lab File ID: VY019192.D Lab Sample ID: VY0821SBL02

Date Analyzed: 08/22/2024 Time Analyzed: 02:11

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

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0821SBS02	VY0821SBS02	VY019193.D	08/22/2024
VY0821SBSD02	VY0821SBSD02	VY019194.D	08/22/2024
S-904-J-SO-0.5-1.0-081924	P3671-02	VY019196.D	08/22/2024
S-911-K1-SO-0-0.5-081924	P3671-03	VY019197.D	08/22/2024
S-911-K1-SO-0.5-1-081924	P3671-04	VY019198.D	08/22/2024
S-911-K1-SO-0-0.5-081924-FD	P3671-05	VY019199.D	08/22/2024
S-905-KJ-SO-0-0.5-081924	P3671-06	VY019200.D	08/22/2024
S-905-J-SO-0.5-1.0-081924	P3671-08	VY019202.D	08/22/2024
S-928-K1-SO-0-0.5-081924	P3671-09	VY019203.D	08/22/2024
S-928-K1-SO-0.5-1-081924	P3671-10	VY019204.D	08/22/2024
S-903-J-SO-0-0.5-081924	P3671-11	VY019205.D	08/22/2024
S-903-J-SO-0.5-1.0-081924	P3671-12	VY019206.D	08/22/2024
S-912-J-SO-0-0.5-081924	P3671-13	VY019207.D	08/22/2024

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0822SBL01

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3671 SAS No.: P3671 SDG NO.: P3671

Lab File ID: VY019212.D Lab Sample ID: VY0822SBL01

Date Analyzed: 08/22/2024 Time Analyzed: 11:52

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

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0822SBS01	VY0822SBS01	VY019213.D	08/22/2024
S-904-J-SO-0-0.5-081924	P3671-01	VY019222.D	08/22/2024
S-911-K1-SO-0-0.5-081924RE	P3671-03RE	VY019223.D	08/22/2024
S-911-K1-SO-0.5-1-081924RE	P3671-04RE	VY019224.D	08/22/2024
S-911-K1-SO-0-0.5-081924-FDRE	P3671-05RE	VY019225.D	08/22/2024
S-905-KJ-SO-0-0.5-081924-FD	P3671-07	VY019226.D	08/22/2024
S-928-K1-SO-0-0.5-081924RE	P3671-09RE	VY019227.D	08/22/2024
S-928-K1-SO-0.5-1-081924RE	P3671-10RE	VY019228.D	08/22/2024
S-912-J-SO-0-0.5-081924RE	P3671-13RE	VY019229.D	08/22/2024
S-912-J-SO-0.5-1-081924	P3671-14	VY019230.D	08/22/2024

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.: P3671 SAS No.: P3671 SDG NO.: P3671

Lab File ID: VY019070.D BFB Injection Date: 08/15/2024

Instrument ID: MSVOA_Y BFB Injection Time: 16:51

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.5
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	7
173	Less than 2.0% of mass 174	1.1 (1.4) 1
174	50.0 - 100.0% of mass 95	81.5
175	5.0 - 9.0% of mass 174	6.7 (8.2) 1
176	95.0 - 101.0% of mass 174	80.9 (99.2) 1
177	5.0 - 9.0% of mass 176	5.9 (7.3) 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
VSTDICC005	VSTDICC005	VY019071.D	08/15/2024	17:24
VSTDICC010	VSTDICC010	VY019072.D	08/15/2024	18:13
VSTDICC020	VSTDICC020	VY019073.D	08/15/2024	18:37
VSTDICCC050	VSTDICCC050	VY019074.D	08/15/2024	19:01
VSTDICC100	VSTDICC100	VY019075.D	08/15/2024	19:26
VSTDICC150	VSTDICC150	VY019076.D	08/15/2024	19:50

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.: P3671 SAS No.: P3671 SDG NO.: P3671

Lab File ID: VY019190.D BFB Injection Date: 08/22/2024

Instrument ID: MSVOA_Y BFB Injection Time: 00:38

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	53.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1.4 (1.7) 1
174	50.0 - 100.0% of mass 95	83
175	5.0 - 9.0% of mass 174	6.5 (7.8) 1
176	95.0 - 101.0% of mass 174	81.2 (97.9) 1
177	5.0 - 9.0% of mass 176	5.3 (6.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY019191.D	08/22/2024	01:25
VY0821SBL02	VY0821SBL02	VY019192.D	08/22/2024	02:11
VY0821SBS02	VY0821SBS02	VY019193.D	08/22/2024	02:34
VY0821SBSD02	VY0821SBSD02	VY019194.D	08/22/2024	02:58
S-904-J-SO-0.5-1.0-081924	P3671-02	VY019196.D	08/22/2024	03:45
S-911-K1-SO-0-0.5-081924	P3671-03	VY019197.D	08/22/2024	04:09
S-911-K1-SO-0.5-1-081924	P3671-04	VY019198.D	08/22/2024	04:33
S-911-K1-SO-0-0.5-081924-FD	P3671-05	VY019199.D	08/22/2024	04:57
S-905-KJ-SO-0-0.5-081924	P3671-06	VY019200.D	08/22/2024	05:21
S-905-J-SO-0.5-1.0-081924	P3671-08	VY019202.D	08/22/2024	06:09
S-928-K1-SO-0-0.5-081924	P3671-09	VY019203.D	08/22/2024	06:33
S-928-K1-SO-0.5-1-081924	P3671-10	VY019204.D	08/22/2024	06:57
S-903-J-SO-0-0.5-081924	P3671-11	VY019205.D	08/22/2024	07:21
S-903-J-SO-0.5-1.0-081924	P3671-12	VY019206.D	08/22/2024	07:45
S-912-J-SO-0-0.5-081924	P3671-13	VY019207.D	08/22/2024	08:09

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.: P3671 SAS No.: P3671 SDG NO.: P3671

Lab File ID: VY019210.D BFB Injection Date: 08/22/2024

Instrument ID: MSVOA_Y BFB Injection Time: 10:21

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19
75	30.0 - 60.0% of mass 95	54.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.2 (1.4) 1
174	50.0 - 100.0% of mass 95	84.4
175	5.0 - 9.0% of mass 174	6.1 (7.3) 1
176	95.0 - 101.0% of mass 174	80.7 (95.6) 1
177	5.0 - 9.0% of mass 176	5.2 (6.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY019211.D	08/22/2024	11:22
VY0822SBL01	VY0822SBL01	VY019212.D	08/22/2024	11:52
VY0822SBS01	VY0822SBS01	VY019213.D	08/22/2024	12:15
S-904-J-SO-0-0.5-081924	P3671-01	VY019222.D	08/22/2024	15:56
S-911-K1-SO-0-0.5-081924RE	P3671-03RE	VY019223.D	08/22/2024	16:20
S-911-K1-SO-0.5-1-081924RE	P3671-04RE	VY019224.D	08/22/2024	16:45
S-911-K1-SO-0-0.5-081924-FDRE	P3671-05RE	VY019225.D	08/22/2024	17:09
S-905-KJ-SO-0-0.5-081924-FD	P3671-07	VY019226.D	08/22/2024	17:33
S-928-K1-SO-0-0.5-081924RE	P3671-09RE	VY019227.D	08/22/2024	17:58
S-928-K1-SO-0.5-1-081924RE	P3671-10RE	VY019228.D	08/22/2024	18:22
S-912-J-SO-0-0.5-081924RE	P3671-13RE	VY019229.D	08/22/2024	18:46
S-912-J-SO-0.5-1-081924	P3671-14	VY019230.D	08/22/2024	19:10

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.: P3671 SAS No.: P3671 SDG NO.: P3671

Lab File ID: VY019191.D Date Analyzed: 08/22/2024

Instrument ID: MSVOA_Y Time Analyzed: 01:25

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	132896	7.71	216735	8.61	191813	11.42
UPPER LIMIT	265792	8.207	433470	9.109	383626	11.92
LOWER LIMIT	66448	7.207	108368	8.109	95906.5	10.92
EPA SAMPLE NO.						
S-904-J-SO-0.5-1.0-081924	85411	7.70	153318	8.61	135667	11.42
S-911-K1-SO-0-0.5-081924	50446 *	7.71	83096 *	8.61	56389 *	11.42
S-911-K1-SO-0.5-1-081924	82692	7.71	143091	8.61	117154	11.42
S-911-K1-SO-0-0.5-081924-FD	81637	7.71	146493	8.61	122862	11.42
S-905-KJ-SO-0-0.5-081924	84229	7.70	154608	8.61	140381	11.42
S-905-J-SO-0.5-1.0-081924	105474	7.71	186243	8.61	171554	11.42
S-928-K1-SO-0-0.5-081924	90900	7.70	164483	8.61	148147	11.42
S-928-K1-SO-0.5-1-081924	6799 *	7.71	8008 *	8.61	3518 *	11.42
S-903-J-SO-0-0.5-081924	103428	7.70	183434	8.61	163909	11.42
S-903-J-SO-0.5-1.0-081924	101068	7.70	169287	8.61	157903	11.42
S-912-J-SO-0-0.5-081924	99521	7.70	163825	8.61	119633	11.42
VY0821SBL02	118099	7.70	198889	8.61	166968	11.42
VY0821SBS02	113045	7.70	185672	8.61	158532	11.42
VY0821SBSD02	127304	7.70	210956	8.61	183381	11.42

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.

Alliance TECHNICAL GROUP
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.: P3671 SAS No.: P3671 SDG NO.: P3671

Lab File ID: VY019191.D Date Analyzed: 08/22/2024

Instrument ID: MSVOA_Y Time Analyzed: 01:25

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

	IS4 AREA #		RT #				
12 HOUR STD	94816		13.352				
UPPER LIMIT	189632		13.852				
LOWER LIMIT	47408		12.852				
EPA SAMPLE NO.							
S-904-J-SO-0.5-1.0-081924	47587		13.35				
S-911-K1-SO-0-0.5-081924	13012	*	13.35				
S-911-K1-SO-0.5-1-081924	31892	*	13.35				
S-911-K1-SO-0-0.5-081924-FD	38679	*	13.35				
S-905-KJ-SO-0-0.5-081924	50718		13.35				
S-905-J-SO-0.5-1.0-081924	65365		13.35				
S-928-K1-SO-0-0.5-081924	44883	*	13.35				
S-928-K1-SO-0.5-1-081924	302	*	13.35				
S-903-J-SO-0-0.5-081924	64388		13.35				
S-903-J-SO-0.5-1.0-081924	51958		13.35				
S-912-J-SO-0-0.5-081924	27197	*	13.35				
VY0821SBL02	72810		13.35				
VY0821SBS02	75884		13.35				
VY0821SBSD02	84746		13.35				

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.: P3671 SAS No.: P3671 SDG NO.: P3671

Lab File ID: VY019211.D Date Analyzed: 08/22/2024

Instrument ID: MSVOA_Y Time Analyzed: 11:22

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	109345	7.70	172965	8.61	153558	11.42
UPPER LIMIT	218690	8.201	345930	9.11	307116	11.92
LOWER LIMIT	54672.5	7.201	86482.5	8.11	76779	10.92
EPA SAMPLE NO.						
S-904-J-SO-0-0.5-081924	90624	7.70	146100	8.61	154172	11.41
S-911-K1-SO-0-0.5-081924RE	97952	7.70	149565	8.61	132652	11.41
S-911-K1-SO-0.5-1-081924RE	107787	7.70	145889	8.61	119363	11.41
S-911-K1-SO-0-0.5-081924-FDRE	91577	7.70	154668	8.61	110605	11.41
S-905-KJ-SO-0-0.5-081924-FD	93888	7.70	167175	8.61	153261	11.41
S-928-K1-SO-0-0.5-081924RE	73034	7.70	126240	8.61	104719	11.41
S-928-K1-SO-0.5-1-081924RE	72721	7.70	130689	8.61	107586	11.41
S-912-J-SO-0-0.5-081924RE	85924	7.70	144093	8.61	107645	11.41
S-912-J-SO-0.5-1-081924	88575	7.70	159662	8.61	125272	11.41
VY0822SBL01	98791	7.70	175566	8.61	153759	11.42
VY0822SBS01	109427	7.70	175354	8.61	154105	11.42

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.: P3671 SAS No.: P3671 SDG NO.: P3671

Lab File ID: VY019211.D Date Analyzed: 08/22/2024

Instrument ID: MSVOA_Y Time Analyzed: 11:22

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

	IS4 AREA #		RT #				
12 HOUR STD	77851		13.353				
UPPER LIMIT	155702		13.853				
LOWER LIMIT	38925.5		12.853				
EPA SAMPLE NO.							
S-904-J-SO-0-0.5-081924	57008		13.35				
S-911-K1-SO-0-0.5-081924RE	38786	*	13.35				
S-911-K1-SO-0.5-1-081924RE	25907	*	13.35				
S-911-K1-SO-0-0.5-081924-FDRE	28511	*	13.35				
S-905-KJ-SO-0-0.5-081924-FD	46673		13.35				
S-928-K1-SO-0-0.5-081924RE	28585	*	13.35				
S-928-K1-SO-0.5-1-081924RE	28694	*	13.35				
S-912-J-SO-0-0.5-081924RE	27279	*	13.35				
S-912-J-SO-0.5-1-081924	42316		13.35				
VY0822SBL01	55761		13.35				
VY0822SBS01	76163		13.35				

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-904-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	71.3
Sample Wt/Vol:	5.69 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019222.D	1		08/22/24 15:56	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.00	U	2.00	6.20	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	6.20	ug/Kg
75-01-4	Vinyl Chloride	0.95	U	0.95	6.20	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.20	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	6.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	6.20	ug/Kg
75-35-4	1,1-Dichloroethene	0.96	U	0.96	6.20	ug/Kg
67-64-1	Acetone	7.70	U	7.70	30.8	ug/Kg
75-15-0	Carbon Disulfide	1.60	U	1.60	6.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.83	U	0.83	6.20	ug/Kg
75-09-2	Methylene Chloride	4.20	U	4.20	12.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	6.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.78	U	0.78	6.20	ug/Kg
110-82-7	Cyclohexane	0.85	U	0.85	6.20	ug/Kg
78-93-3	2-Butanone	7.00	U	7.00	30.8	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	6.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	6.20	ug/Kg
67-66-3	Chloroform	0.83	U	0.83	6.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.96	U	0.96	6.20	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.20	ug/Kg
71-43-2	Benzene	0.89	U	0.89	6.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.75	U	0.75	6.20	ug/Kg
79-01-6	Trichloroethene	0.92	U	0.92	6.20	ug/Kg
75-27-4	Bromodichloromethane	0.69	U	0.69	6.20	ug/Kg
108-88-3	Toluene	0.83	U	0.83	6.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.00	U	1.00	6.20	ug/Kg
124-48-1	Dibromochloromethane	0.80	U	0.80	6.20	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	6.20	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	6.20	ug/Kg
100-41-4	Ethyl Benzene	0.76	U	0.76	6.20	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-904-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	71.3
Sample Wt/Vol:	5.69 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019222.D	1		08/22/24 15:56	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	1.70	U	1.70	12.3	ug/Kg
1330-20-7	Total Xylenes	2.56	U	2.56	18.5	ug/Kg
95-47-6	o-Xylene	0.86	U	0.86	6.20	ug/Kg
98-82-8	Isopropylbenzene	0.83	U	0.83	6.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.99	U	0.99	6.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.73	U	0.73	6.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.3		70 (50) - 130 (163)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	54.9		70 (54) - 130 (147)	110%	SPK: 50
2037-26-5	Toluene-d8	57.2		70 (58) - 130 (134)	114%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		70 (29) - 130 (146)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	90600	7.695			
540-36-3	1,4-Difluorobenzene	146000	8.609			
3114-55-4	Chlorobenzene-d5	154000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	57000	13.346			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019222.D
Acq On : 22 Aug 2024 15:56
Operator : SY/MD
Sample : P3671-01
Misc : 5.69g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0-0.5-081924

Quant Time: Aug 23 01:54:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.695	168	90624	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	146100	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	154172	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	57008	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.048	65	51178	56.336	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.680%			
35) Dibromofluoromethane	7.622	113	52492	54.949	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 109.900%			
50) Toluene-d8	10.103	98	196671	57.209	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 114.420%			
62) 4-Bromofluorobenzene	12.407	95	58618	50.019	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 100.040%			

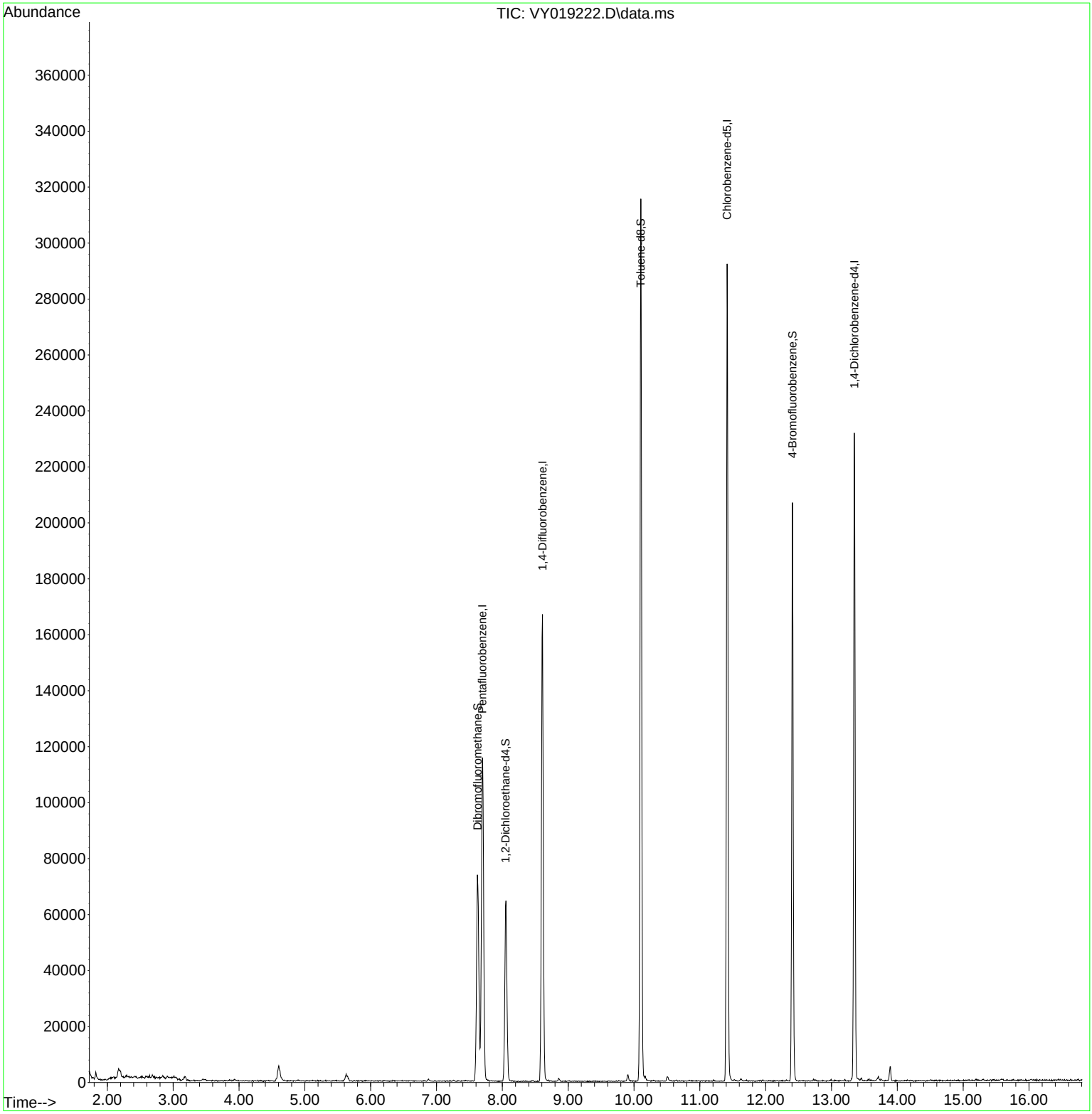
Target Compounds Qvalue

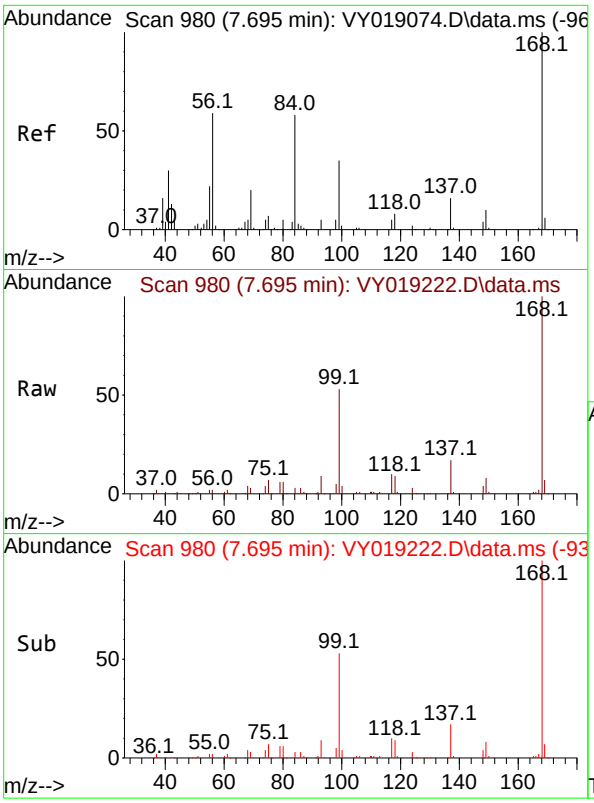
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019222.D
Acq On : 22 Aug 2024 15:56
Operator : SY/MD
Sample : P3671-01
Misc : 5.69g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0-0.5-081924

Quant Time: Aug 23 01:54:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



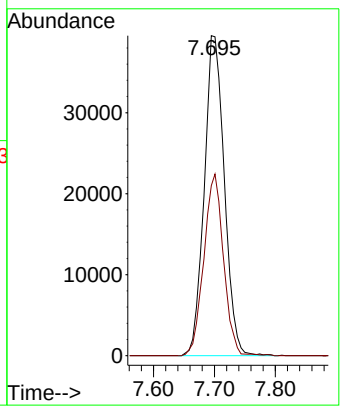


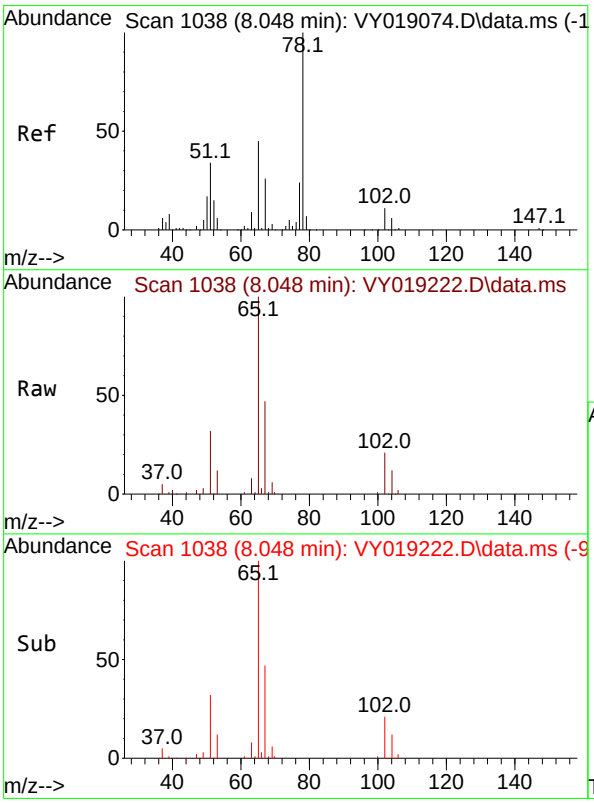
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019222.D
Acq: 22 Aug 2024 15:56

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0-0.5-081924

Tgt Ion:168 Resp: 90624

Ion	Ratio	Lower	Upper
168	100		
99	53.1	39.1	58.7

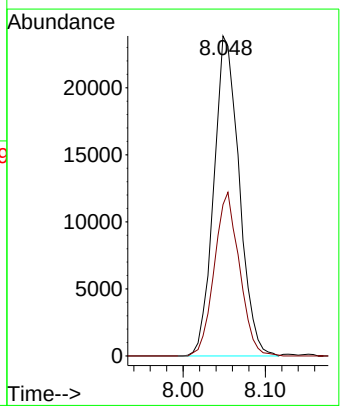


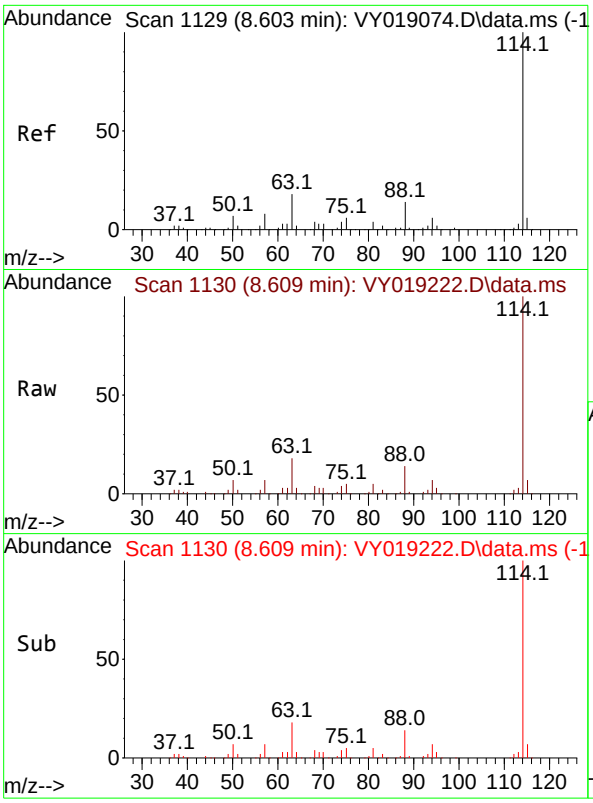


#33
1,2-Dichloroethane-d4
Concen: 56.336 ug/l
RT: 8.048 min Scan# 1038
Delta R.T. 0.000 min
Lab File: VY019222.D
Acq: 22 Aug 2024 15:56

Tgt Ion: 65 Resp: 51178

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	109.6



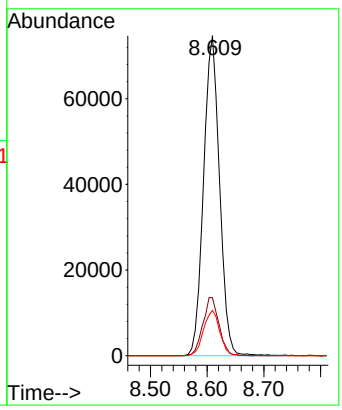


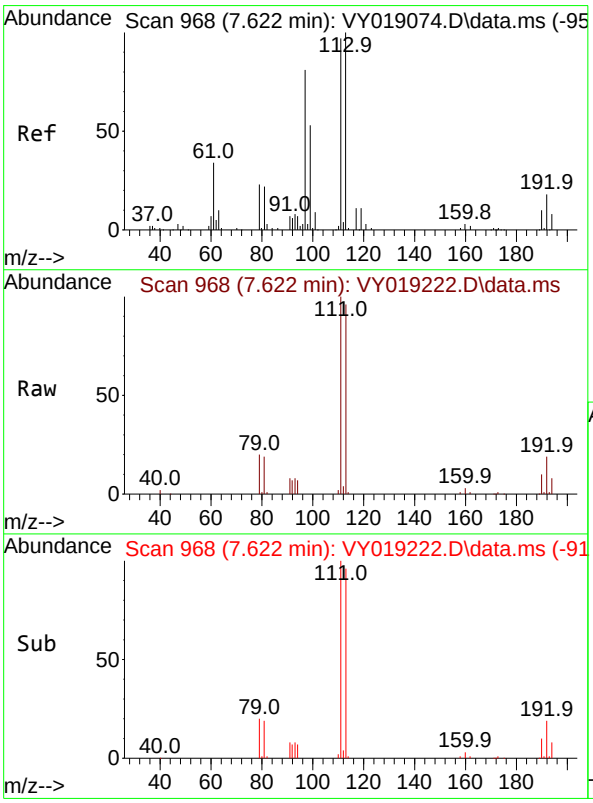
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019222.D
Acq: 22 Aug 2024 15:56

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0-0.5-081924

Tgt Ion:114 Resp: 146100

Ion	Ratio	Lower	Upper
114	100		
63	18.1	0.0	35.0
88	14.2	0.0	27.2

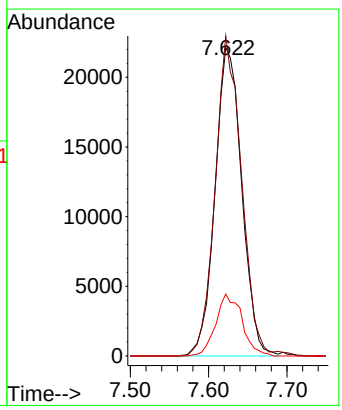


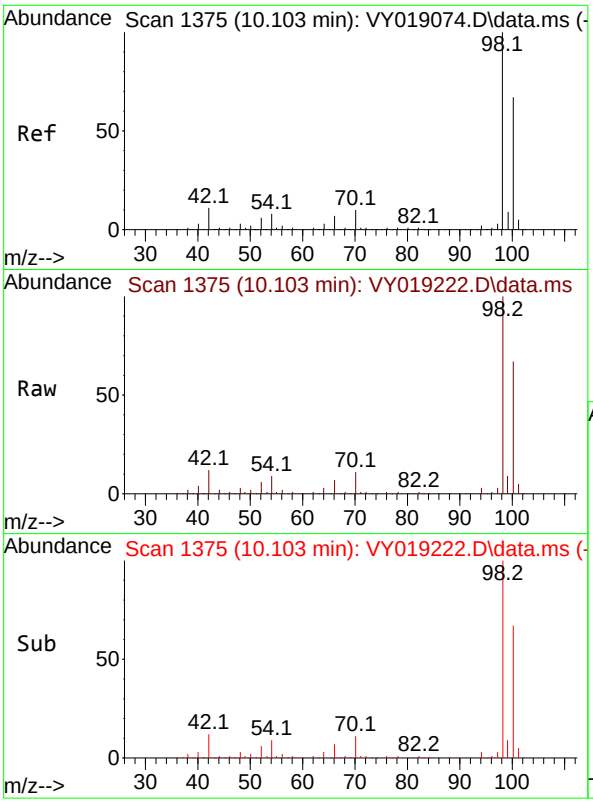


#35
Dibromofluoromethane
Concen: 54.949 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY019222.D
Acq: 22 Aug 2024 15:56

Tgt Ion:113 Resp: 52492

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.2	123.4
192	19.7	15.9	23.9



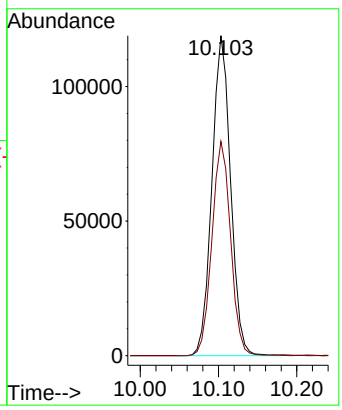


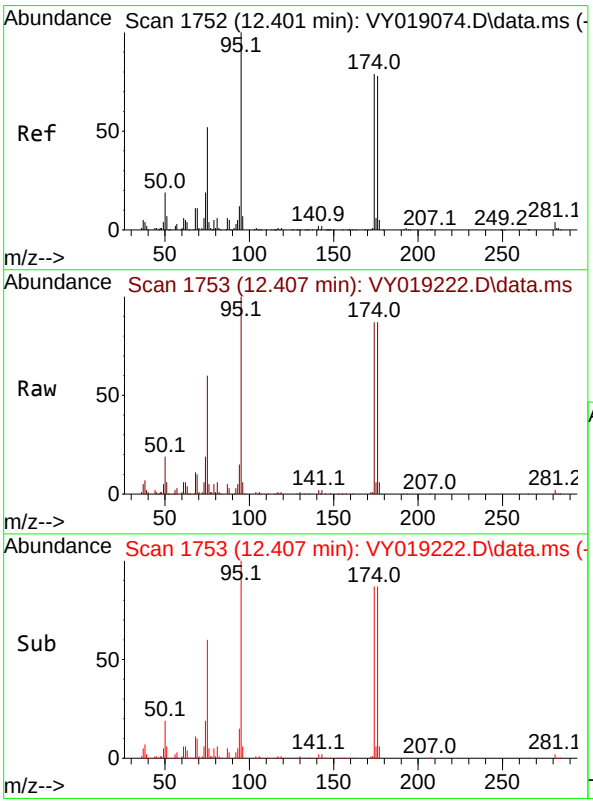
#50
Toluene-d8
Concen: 57.209 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019222.D
Acq: 22 Aug 2024 15:56

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0-0.5-081924

Tgt Ion: 98 Resp: 196671

Ion	Ratio	Lower	Upper
98	100		
100	67.1	52.0	78.0

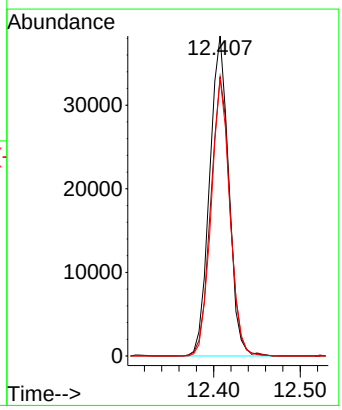


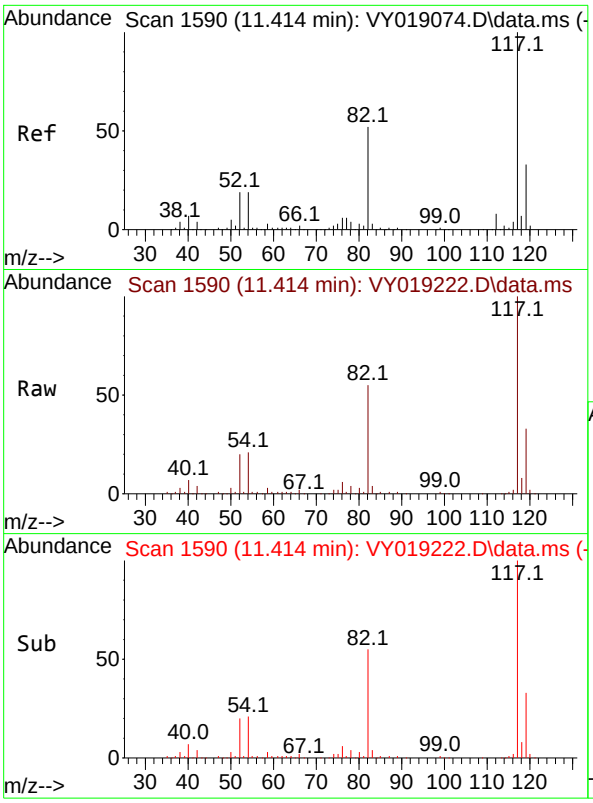


#62
4-Bromofluorobenzene
Concen: 50.019 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019222.D
Acq: 22 Aug 2024 15:56

Tgt Ion: 95 Resp: 58618

Ion	Ratio	Lower	Upper
95	100		
174	87.4	0.0	175.6
176	84.3	0.0	171.4



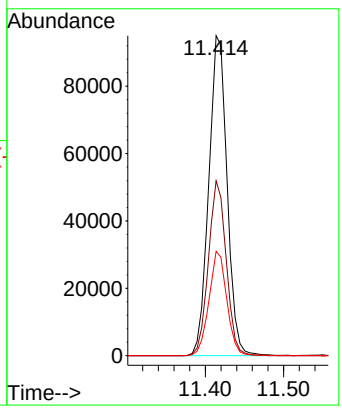


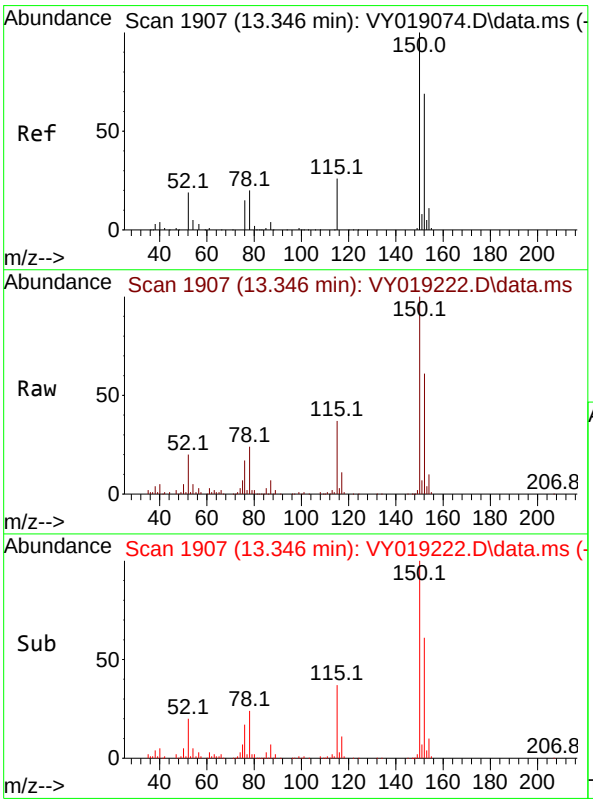
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019222.D
Acq: 22 Aug 2024 15:56

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0-0.5-081924

Tgt Ion:117 Resp: 154172

Ion	Ratio	Lower	Upper
117	100		
82	54.7	42.4	63.6
119	32.6	25.9	38.9

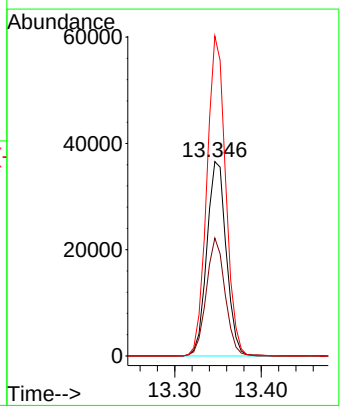




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019222.D
Acq: 22 Aug 2024 15:56

Tgt Ion:152 Resp: 57008

Ion	Ratio	Lower	Upper
152	100		
115	58.6	28.2	84.7
150	159.0	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-904-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	79.7
Sample Wt/Vol:	8.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019196.D	1		08/22/24 03:45	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	3.80	ug/Kg
74-87-3	Chloromethane	0.88	U	0.88	3.80	ug/Kg
75-01-4	Vinyl Chloride	0.59	U	0.59	3.80	ug/Kg
74-83-9	Bromomethane	0.78	U	0.78	3.80	ug/Kg
75-00-3	Chloroethane	0.77	U	0.77	3.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.81	U	0.81	3.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.59	U	0.59	3.80	ug/Kg
67-64-1	Acetone	65.9		4.80	19.0	ug/Kg
75-15-0	Carbon Disulfide	0.97	U	0.97	3.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.51	U	0.51	3.80	ug/Kg
75-09-2	Methylene Chloride	2.60	U	2.60	7.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.64	U	0.64	3.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.48	U	0.48	3.80	ug/Kg
110-82-7	Cyclohexane	0.53	U	0.53	3.80	ug/Kg
78-93-3	2-Butanone	13.2	J	4.30	19.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.66	U	0.66	3.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.46	U	0.46	3.80	ug/Kg
67-66-3	Chloroform	0.51	U	0.51	3.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.59	U	0.59	3.80	ug/Kg
108-87-2	Methylcyclohexane	0.66	U	0.66	3.80	ug/Kg
71-43-2	Benzene	0.55	U	0.55	3.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.46	U	0.46	3.80	ug/Kg
79-01-6	Trichloroethene	0.57	U	0.57	3.80	ug/Kg
75-27-4	Bromodichloromethane	0.43	U	0.43	3.80	ug/Kg
108-88-3	Toluene	0.51	U	0.51	3.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.64	U	0.64	3.80	ug/Kg
124-48-1	Dibromochloromethane	0.49	U	0.49	3.80	ug/Kg
127-18-4	Tetrachloroethene	0.68	U	0.68	3.80	ug/Kg
108-90-7	Chlorobenzene	0.56	U	0.56	3.80	ug/Kg
100-41-4	Ethyl Benzene	0.47	U	0.47	3.80	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-904-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	79.7
Sample Wt/Vol:	8.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019196.D	1		08/22/24 03:45	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	1.00	U	1.00	7.60	ug/Kg
1330-20-7	Total Xylenes	1.53	U	1.53	11.4	ug/Kg
95-47-6	o-Xylene	0.53	U	0.53	3.80	ug/Kg
98-82-8	Isopropylbenzene	0.51	U	0.51	3.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.61	U	0.61	3.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.45	U	0.45	3.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.6		70 (50) - 130 (163)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		70 (54) - 130 (147)	98%	SPK: 50
2037-26-5	Toluene-d8	47.2		70 (58) - 130 (134)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.2		70 (29) - 130 (146)	80%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	85400	7.701			
540-36-3	1,4-Difluorobenzene	153000	8.609			
3114-55-4	Chlorobenzene-d5	136000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	47600	13.352			

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_Y\Data\VY082124\
Data File : VY019196.D
Acq On : 22 Aug 2024 03:45
Operator : SY/MD
Sample : P3671-02
Misc : 8.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0.5-1.0-081924

Quant Time: Aug 22 04:43:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

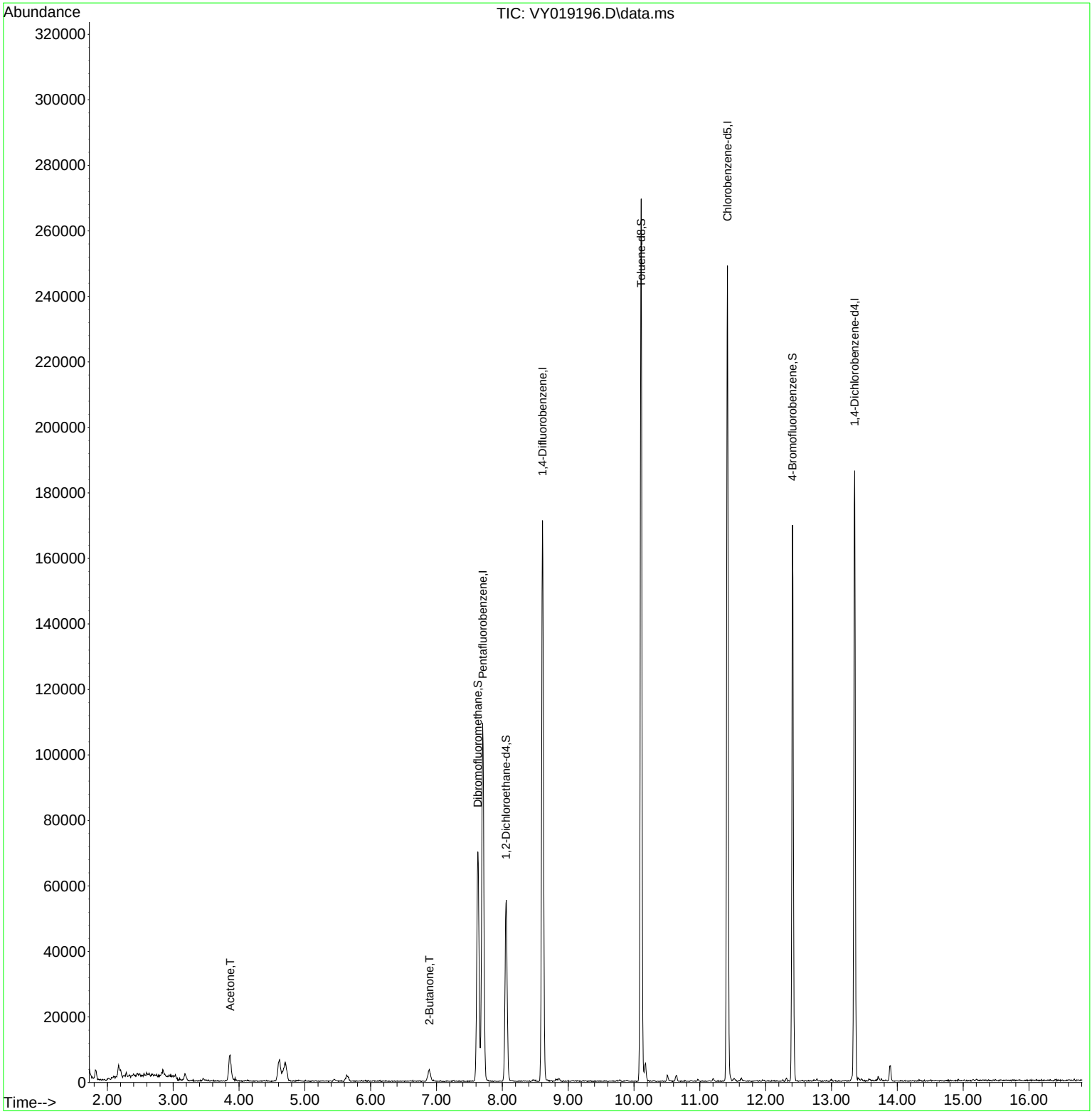
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	85411	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	153318	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	135667	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	47587	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	43345	50.626	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.260%			
35) Dibromofluoromethane	7.628	113	49273	49.151	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.300%			
50) Toluene-d8	10.109	98	170328	47.214	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.420%			
62) 4-Bromofluorobenzene	12.408	95	49396	40.165	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 80.340%			
Target Compounds						Qvalue
16) Acetone	3.866	43	13742	86.547	ug/l	91
25) 2-Butanone	6.890	43	4420	17.285	ug/l #	76

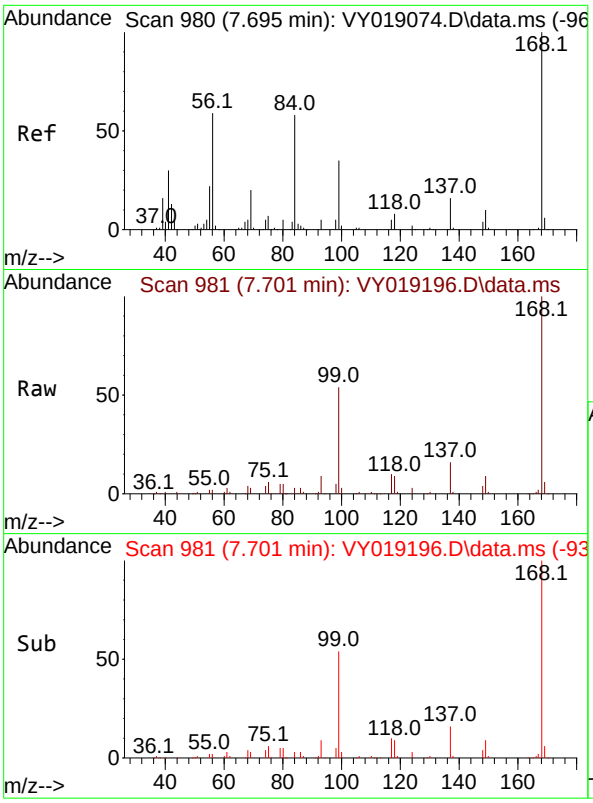
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019196.D
Acq On : 22 Aug 2024 03:45
Operator : SY/MD
Sample : P3671-02
Misc : 8.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0.5-1.0-081924

Quant Time: Aug 22 04:43:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



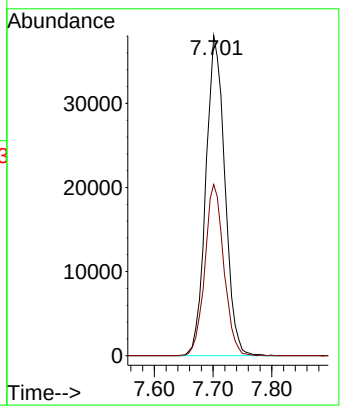


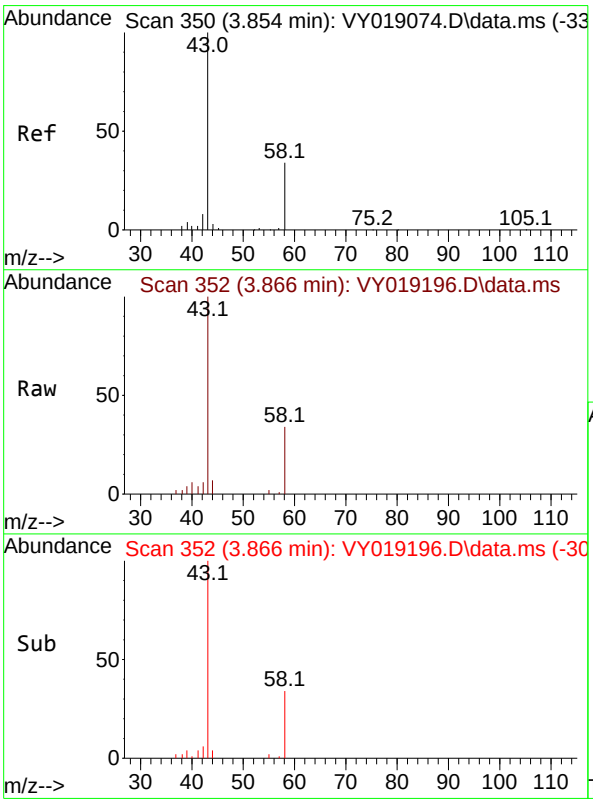
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019196.D
Acq: 22 Aug 2024 03:45

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0.5-1.0-081924

Tgt Ion:168 Resp: 85411

Ion	Ratio	Lower	Upper
168	100		
99	53.5	39.1	58.7

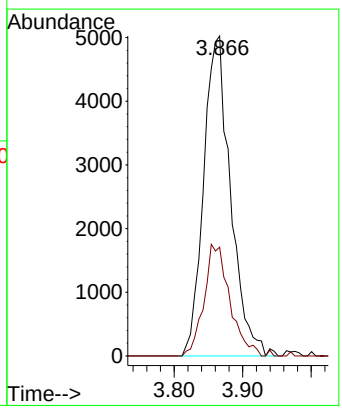


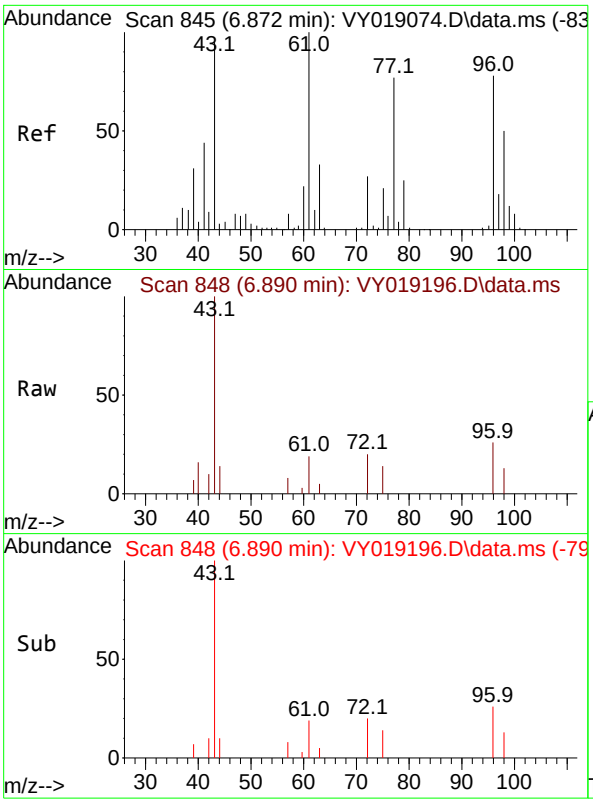


#16
Acetone
Concen: 86.547 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.012 min
Lab File: VY019196.D
Acq: 22 Aug 2024 03:45

Tgt Ion: 43 Resp: 13742

Ion	Ratio	Lower	Upper
43	100		
58	34.0	31.7	47.5



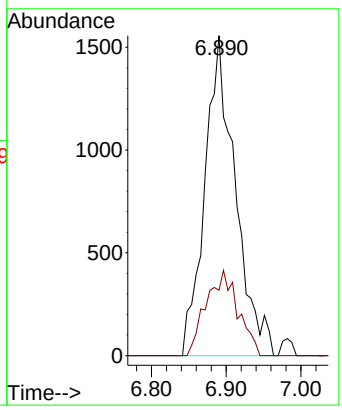


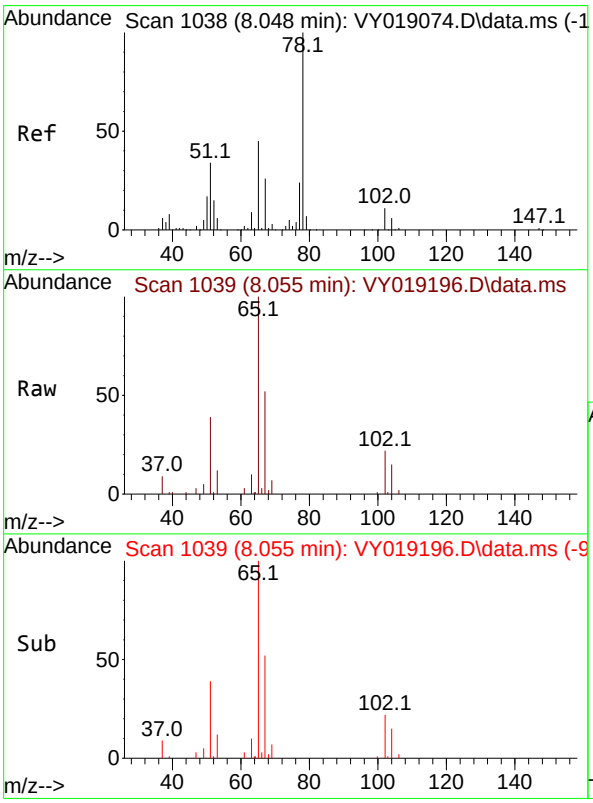
#25
2-Butanone
Concen: 17.285 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.019 min
Lab File: VY019196.D
Acq: 22 Aug 2024 03:45

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0.5-1.0-081924

Tgt Ion: 43 Resp: 4420

Ion	Ratio	Lower	Upper
43	100		
72	20.4	27.3	40.9#

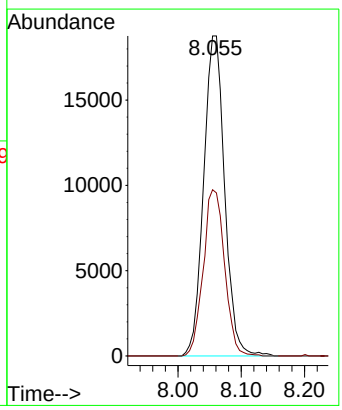


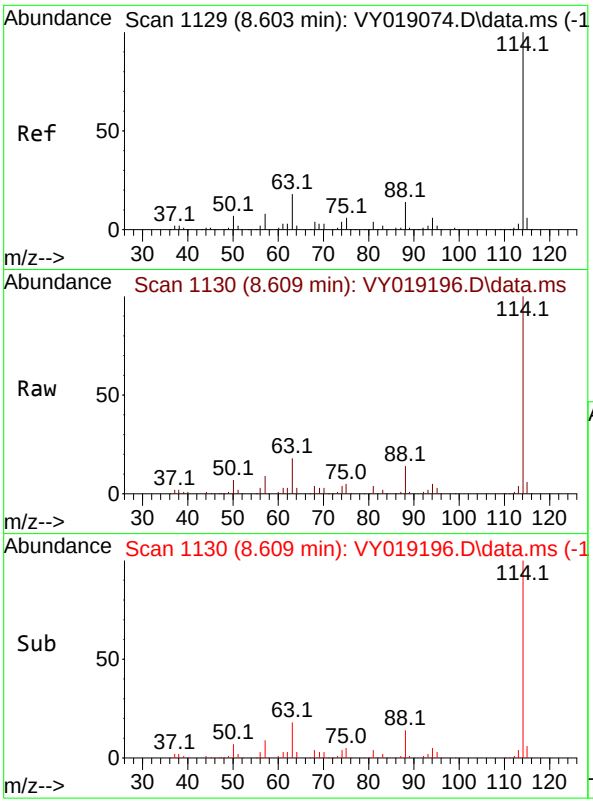


#33
1,2-Dichloroethane-d4
Concen: 50.626 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019196.D
Acq: 22 Aug 2024 03:45

Tgt Ion: 65 Resp: 43345

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	109.6



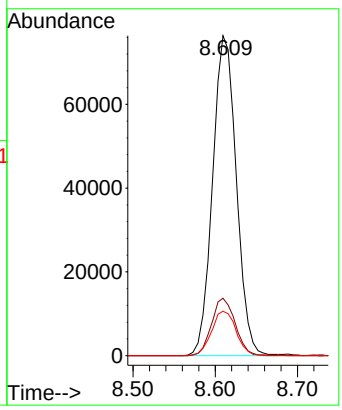


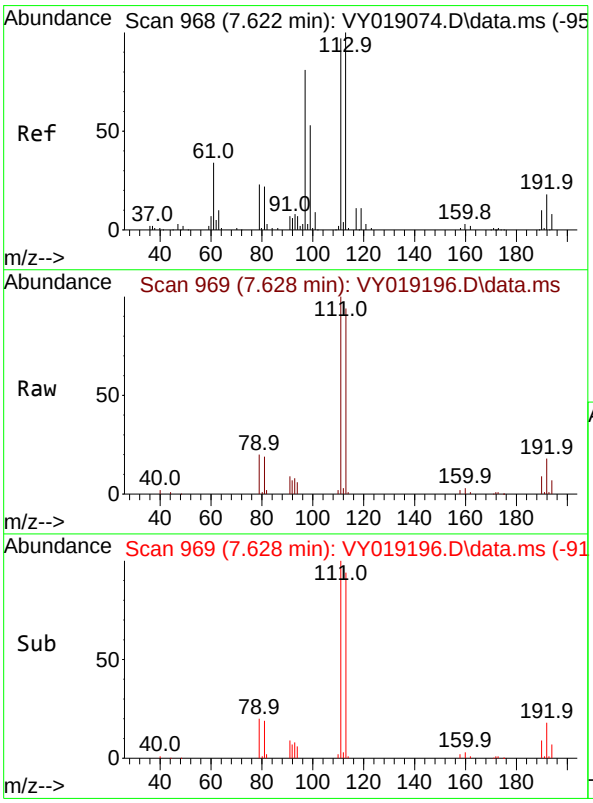
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019196.D
Acq: 22 Aug 2024 03:45

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0.5-1.0-081924

Tgt Ion:114 Resp: 153318

Ion	Ratio	Lower	Upper
114	100		
63	18.0	0.0	35.0
88	13.9	0.0	27.2

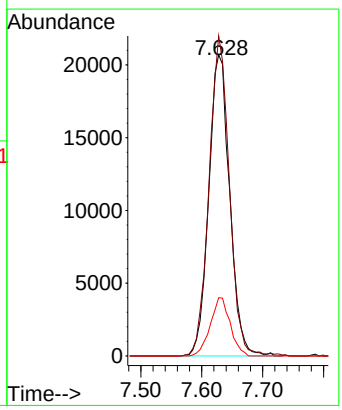


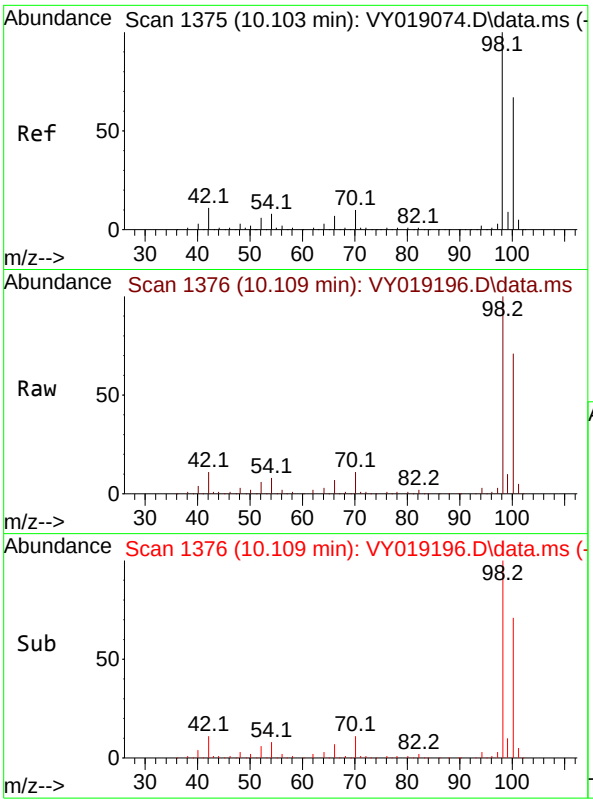


#35
Dibromofluoromethane
Concen: 49.151 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY019196.D
Acq: 22 Aug 2024 03:45

Tgt Ion:113 Resp: 49273

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.2	123.4
192	18.4	15.9	23.9



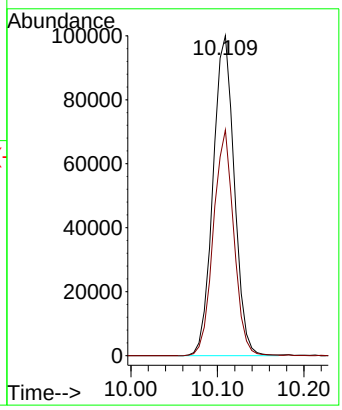


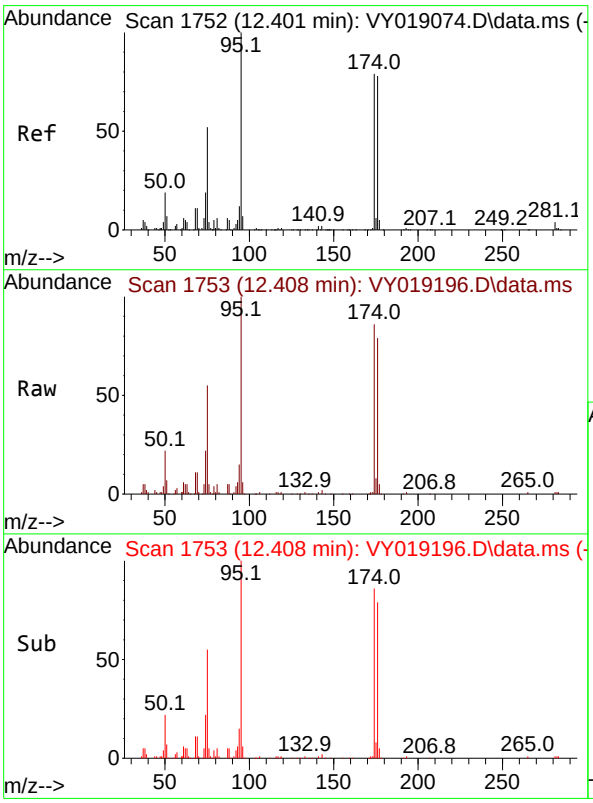
#50
Toluene-d8
Concen: 47.214 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019196.D
Acq: 22 Aug 2024 03:45

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0.5-1.0-081924

Tgt Ion: 98 Resp: 170328

Ion	Ratio	Lower	Upper
98	100		
100	68.0	52.0	78.0

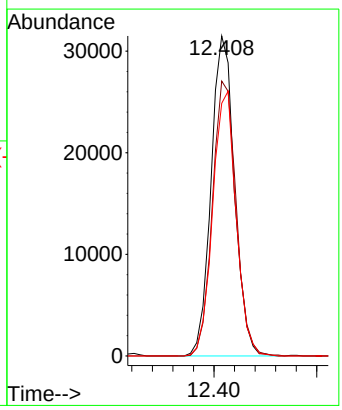


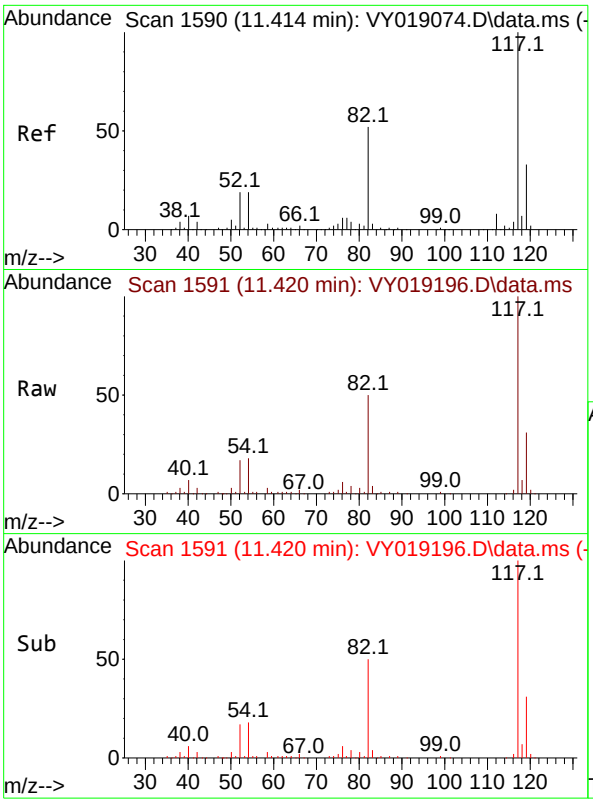


#62
4-Bromofluorobenzene
Concen: 40.165 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019196.D
Acq: 22 Aug 2024 03:45

Tgt Ion: 95 Resp: 49396

Ion	Ratio	Lower	Upper
95	100		
174	87.6	0.0	175.6
176	83.2	0.0	171.4



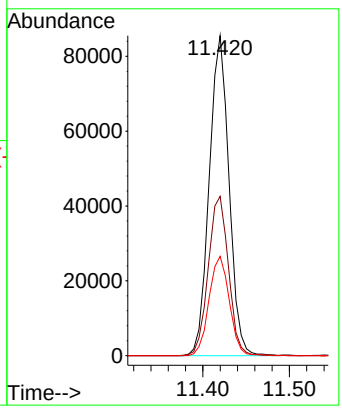


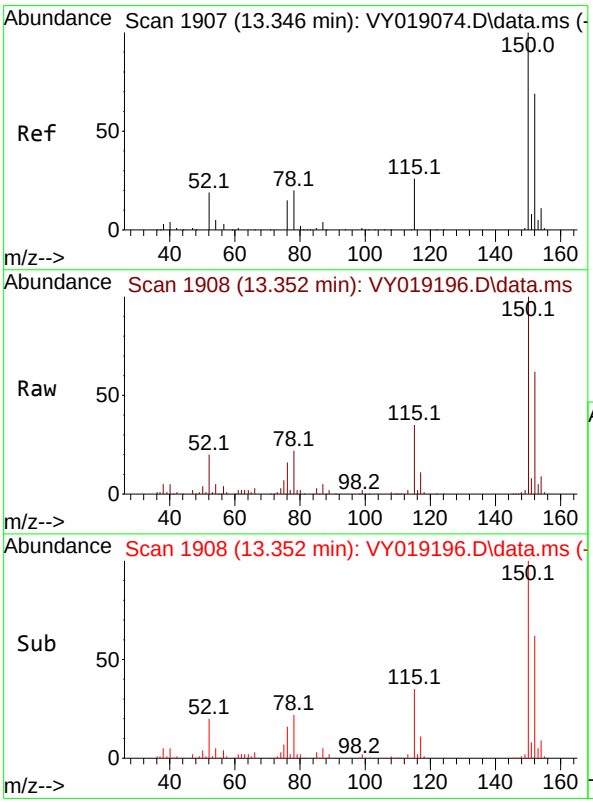
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019196.D
Acq: 22 Aug 2024 03:45

Instrument :
MSVOA_Y
ClientSampleId :
S-904-J-SO-0.5-1.0-081924

Tgt Ion:117 Resp: 135667

Ion	Ratio	Lower	Upper
117	100		
82	49.8	42.4	63.6
119	31.1	25.9	38.9

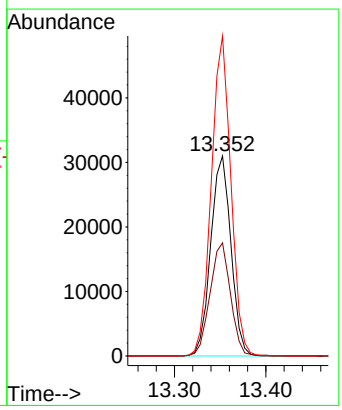




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019196.D
Acq: 22 Aug 2024 03:45

Tgt Ion:152 Resp: 47587

Ion	Ratio	Lower	Upper
152	100		
115	57.2	28.2	84.7
150	154.5	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	46.9
Sample Wt/Vol:	4.67 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019197.D	1		08/22/24 04:09	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	3.80	U	3.80	11.4	ug/Kg
74-87-3	Chloromethane	2.60	U	2.60	11.4	ug/Kg
75-01-4	Vinyl Chloride	1.80	U	1.80	11.4	ug/Kg
74-83-9	Bromomethane	2.40	U	2.40	11.4	ug/Kg
75-00-3	Chloroethane	2.30	U	2.30	11.4	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.40	U	2.40	11.4	ug/Kg
75-35-4	1,1-Dichloroethene	1.80	U	1.80	11.4	ug/Kg
67-64-1	Acetone	14.2	U	14.2	57.1	ug/Kg
75-15-0	Carbon Disulfide	2.90	U	2.90	11.4	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.50	U	1.50	11.4	ug/Kg
75-09-2	Methylene Chloride	7.80	U	7.80	22.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.90	U	1.90	11.4	ug/Kg
75-34-3	1,1-Dichloroethane	1.40	U	1.40	11.4	ug/Kg
110-82-7	Cyclohexane	1.60	U	1.60	11.4	ug/Kg
78-93-3	2-Butanone	13.0	U	13.0	57.1	ug/Kg
56-23-5	Carbon Tetrachloride	2.00	U	2.00	11.4	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.40	U	1.40	11.4	ug/Kg
67-66-3	Chloroform	1.50	U	1.50	11.4	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.80	U	1.80	11.4	ug/Kg
108-87-2	Methylcyclohexane	2.00	U	2.00	11.4	ug/Kg
71-43-2	Benzene	1.60	U	1.60	11.4	ug/Kg
107-06-2	1,2-Dichloroethane	1.40	U	1.40	11.4	ug/Kg
79-01-6	Trichloroethene	1.70	U	1.70	11.4	ug/Kg
75-27-4	Bromodichloromethane	1.30	U	1.30	11.4	ug/Kg
108-88-3	Toluene	1.50	U	1.50	11.4	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.90	U	1.90	11.4	ug/Kg
124-48-1	Dibromochloromethane	1.50	U	1.50	11.4	ug/Kg
127-18-4	Tetrachloroethene	2.00	U	2.00	11.4	ug/Kg
108-90-7	Chlorobenzene	1.70	U	1.70	11.4	ug/Kg
100-41-4	Ethyl Benzene	1.40	U	1.40	11.4	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	46.9
Sample Wt/Vol:	4.67 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019197.D	1		08/22/24 04:09	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	3.10	U	3.10	22.8	ug/Kg
1330-20-7	Total Xylenes	4.70	U	4.70	34.2	ug/Kg
95-47-6	o-Xylene	1.60	U	1.60	11.4	ug/Kg
98-82-8	Isopropylbenzene	1.50	U	1.50	11.4	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.80	U	1.80	11.4	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	11.4	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	40.8		70 (50) - 130 (163)	82%	SPK: 50
1868-53-7	Dibromofluoromethane	46.6		70 (54) - 130 (147)	93%	SPK: 50
2037-26-5	Toluene-d8	44.4		70 (58) - 130 (134)	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	25.3	*	70 (29) - 130 (146)	51%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	50400	7.707			
540-36-3	1,4-Difluorobenzene	83100	8.61			
3114-55-4	Chlorobenzene-d5	56400	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	13000	13.353			

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_Y\Data\VY082124\
Data File : VY019197.D
Acq On : 22 Aug 2024 04:09
Operator : SY/MD
Sample : P3671-03
Misc : 4.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924

Quant Time: Aug 22 04:44:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

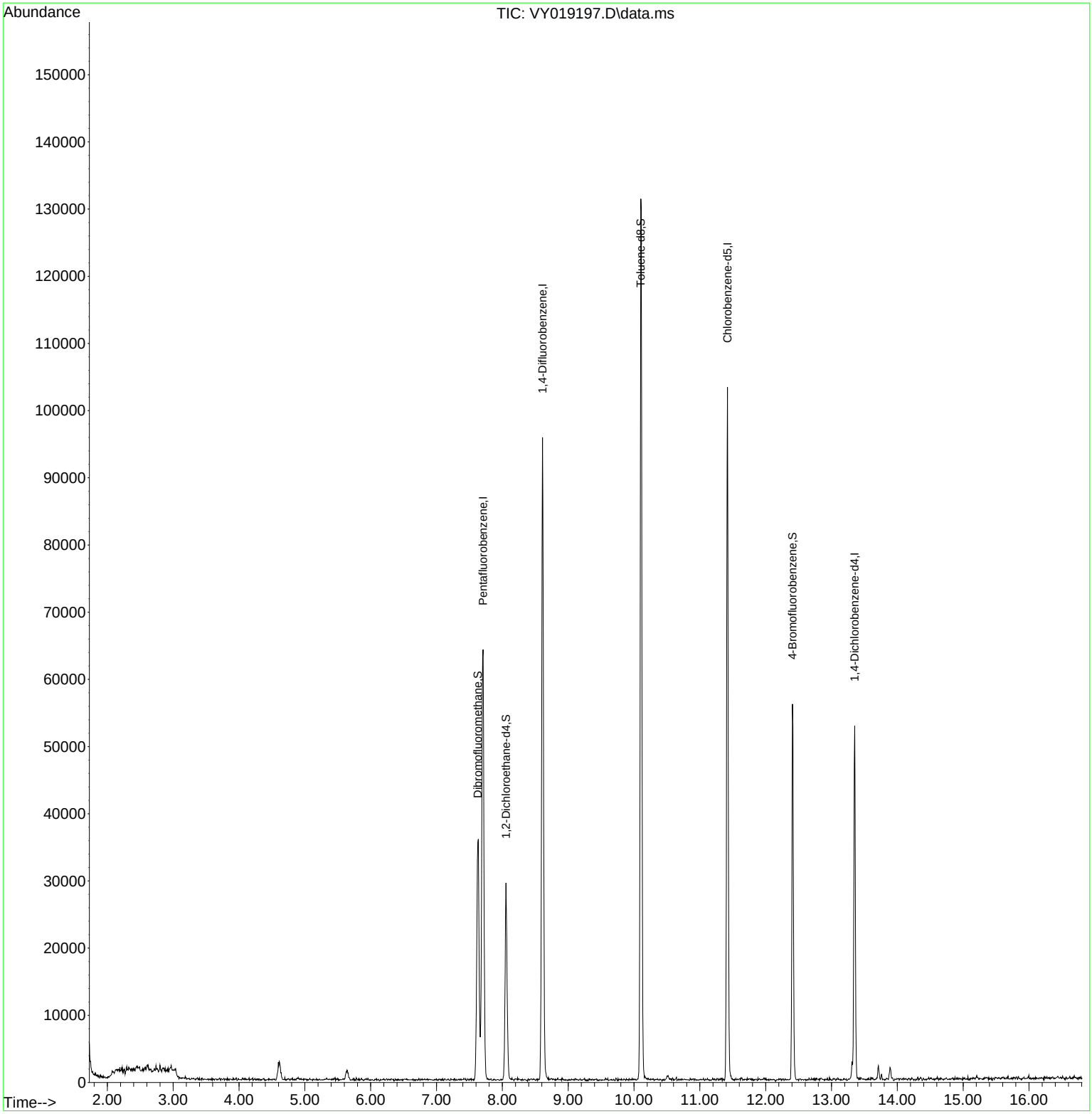
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	50446	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.610	114	83096	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	56389	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	13012	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	20645	40.826	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	81.660%		
35) Dibromofluoromethane	7.628	113	25315	46.592	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	93.180%		
50) Toluene-d8	10.103	98	86863	44.425	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	88.860%		
62) 4-Bromofluorobenzene	12.408	95	16872	25.313	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	50.620%		
Target Compounds						Qvalue

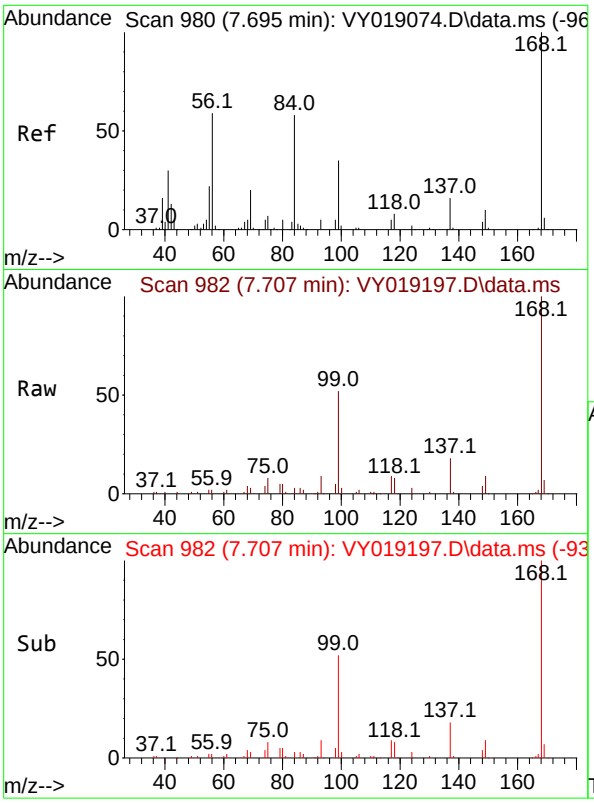
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019197.D
Acq On : 22 Aug 2024 04:09
Operator : SY/MD
Sample : P3671-03
Misc : 4.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924

Quant Time: Aug 22 04:44:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



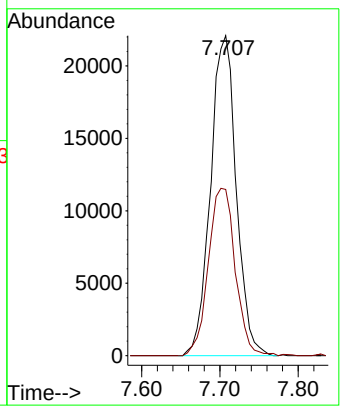


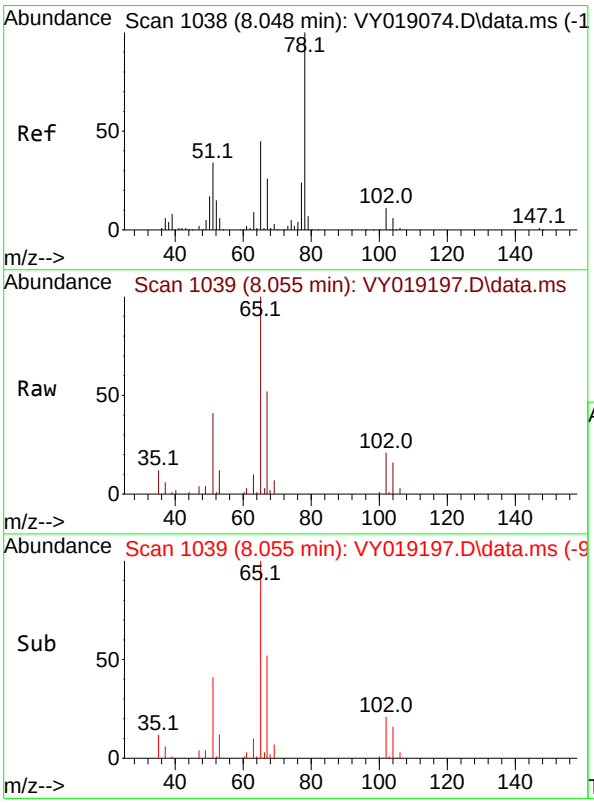
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY019197.D
Acq: 22 Aug 2024 04:09

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924

Tgt Ion:168 Resp: 50446

Ion	Ratio	Lower	Upper
168	100		
99	51.9	39.1	58.7

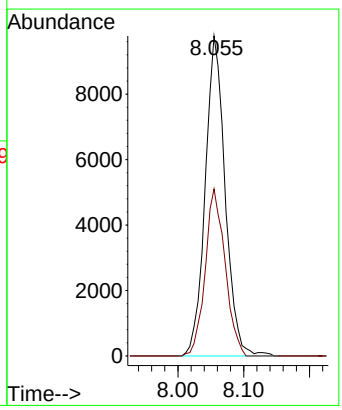


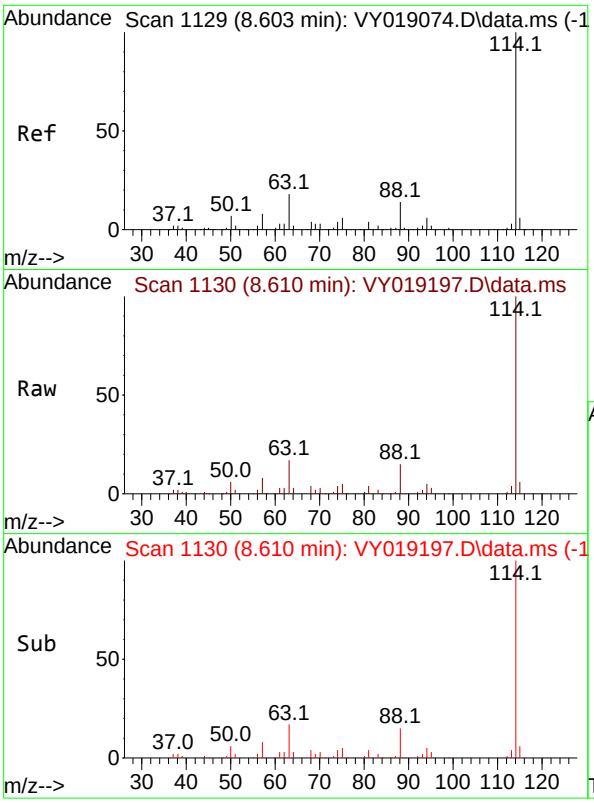


#33
1,2-Dichloroethane-d4
Concen: 40.826 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019197.D
Acq: 22 Aug 2024 04:09

Tgt Ion: 65 Resp: 20645

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	109.6



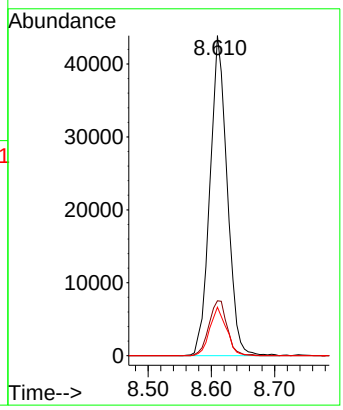


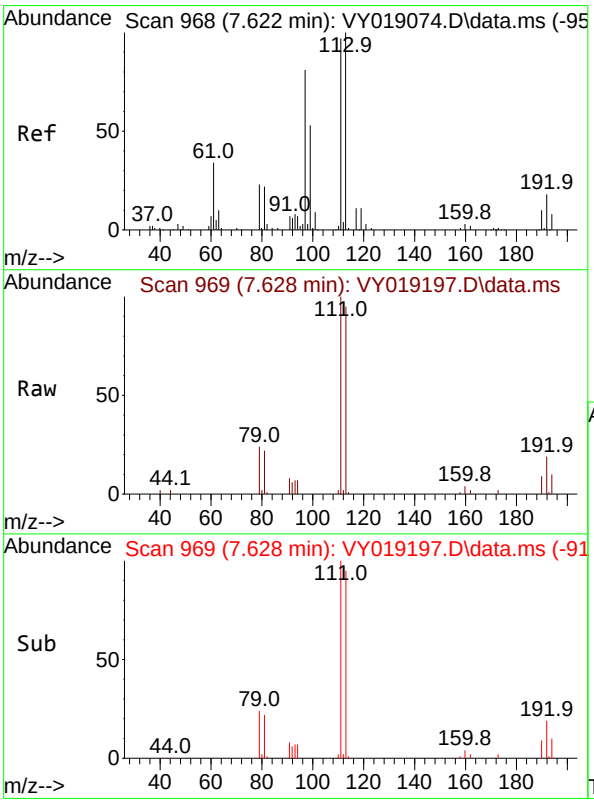
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019197.D
Acq: 22 Aug 2024 04:09

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924

Tgt Ion:114 Resp: 83096

Ion	Ratio	Lower	Upper
114	100		
63	17.2	0.0	35.0
88	15.2	0.0	27.2

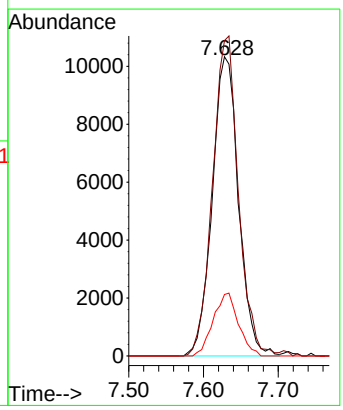


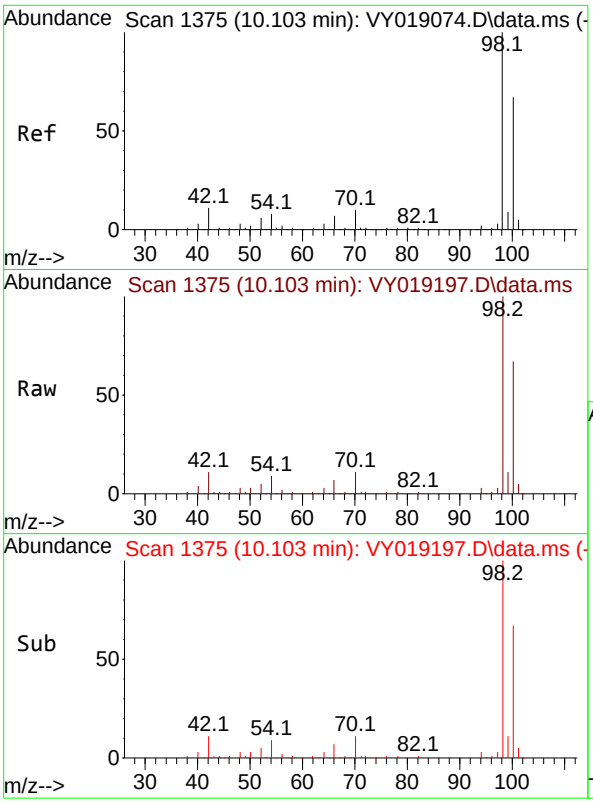


#35
Dibromofluoromethane
Concen: 46.592 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY019197.D
Acq: 22 Aug 2024 04:09

Tgt Ion:113 Resp: 25315

Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.2	123.4
192	20.0	15.9	23.9



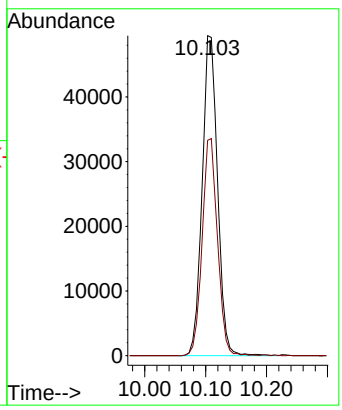


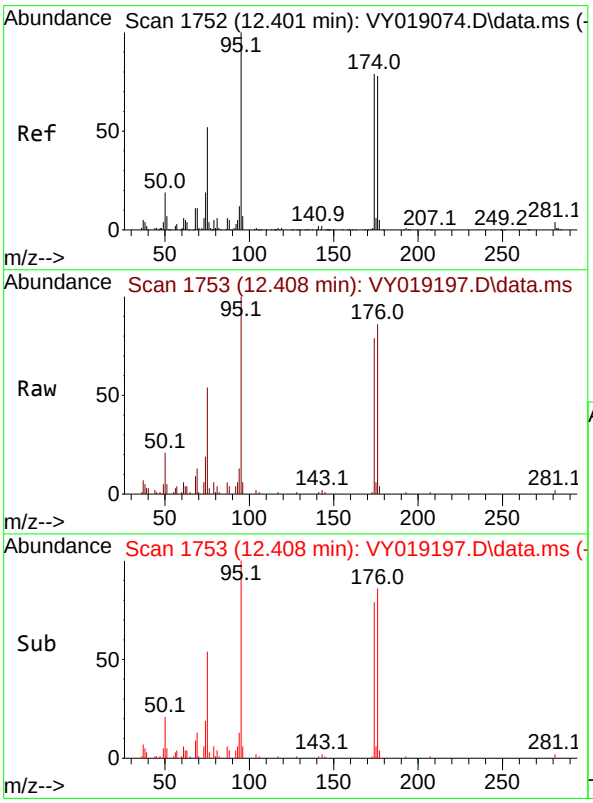
#50
Toluene-d8
Concen: 44.425 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019197.D
Acq: 22 Aug 2024 04:09

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924

Tgt Ion: 98 Resp: 86863

Ion	Ratio	Lower	Upper
98	100		
100	67.5	52.0	78.0

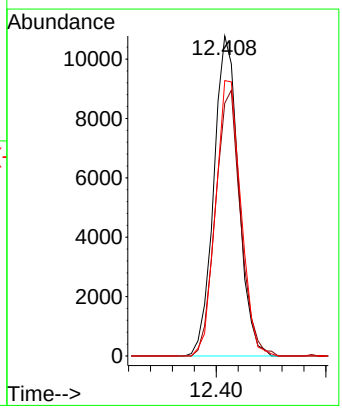


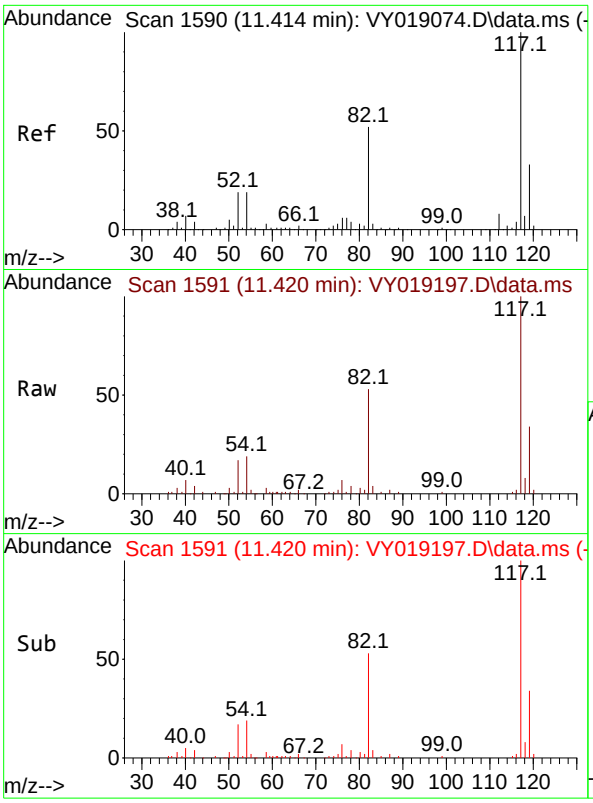


#62
4-Bromofluorobenzene
Concen: 25.313 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019197.D
Acq: 22 Aug 2024 04:09

Tgt Ion: 95 Resp: 16872

Ion	Ratio	Lower	Upper
95	100		
174	84.2	0.0	175.6
176	87.8	0.0	171.4



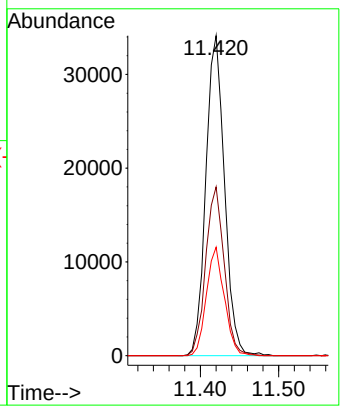


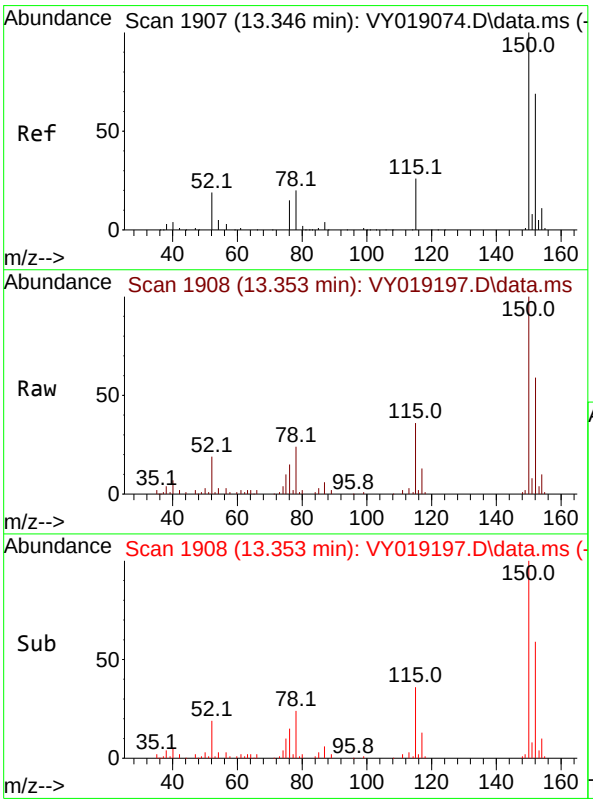
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019197.D
Acq: 22 Aug 2024 04:09

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924

Tgt Ion:117 Resp: 56389

Ion	Ratio	Lower	Upper
117	100		
82	52.7	42.4	63.6
119	33.9	25.9	38.9

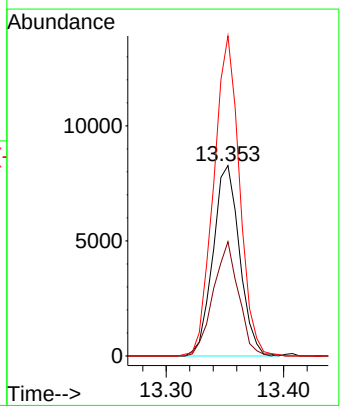




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019197.D
Acq: 22 Aug 2024 04:09

Tgt Ion:152 Resp: 13012

Ion	Ratio	Lower	Upper
152	100		
115	57.1	28.2	84.7
150	163.3	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924RE	SDG No.:	P3671
Lab Sample ID:	P3671-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	46.9
Sample Wt/Vol:	5.47 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019223.D	1		08/22/24 16:20	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	3.20	U	3.20	9.70	ug/Kg
74-87-3	Chloromethane	2.30	U	2.30	9.70	ug/Kg
75-01-4	Vinyl Chloride	1.50	U	1.50	9.70	ug/Kg
74-83-9	Bromomethane	2.00	U	2.00	9.70	ug/Kg
75-00-3	Chloroethane	2.00	U	2.00	9.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.10	U	2.10	9.70	ug/Kg
75-35-4	1,1-Dichloroethene	1.50	U	1.50	9.70	ug/Kg
67-64-1	Acetone	12.2	U	12.2	48.7	ug/Kg
75-15-0	Carbon Disulfide	2.50	U	2.50	9.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.30	U	1.30	9.70	ug/Kg
75-09-2	Methylene Chloride	6.60	U	6.60	19.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.60	U	1.60	9.70	ug/Kg
75-34-3	1,1-Dichloroethane	1.20	U	1.20	9.70	ug/Kg
110-82-7	Cyclohexane	1.30	U	1.30	9.70	ug/Kg
78-93-3	2-Butanone	11.1	U	11.1	48.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.70	U	1.70	9.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.20	U	1.20	9.70	ug/Kg
67-66-3	Chloroform	1.30	U	1.30	9.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.50	U	1.50	9.70	ug/Kg
108-87-2	Methylcyclohexane	1.70	U	1.70	9.70	ug/Kg
71-43-2	Benzene	1.40	U	1.40	9.70	ug/Kg
107-06-2	1,2-Dichloroethane	1.20	U	1.20	9.70	ug/Kg
79-01-6	Trichloroethene	1.50	U	1.50	9.70	ug/Kg
75-27-4	Bromodichloromethane	1.10	U	1.10	9.70	ug/Kg
108-88-3	Toluene	1.30	U	1.30	9.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.60	U	1.60	9.70	ug/Kg
124-48-1	Dibromochloromethane	1.30	U	1.30	9.70	ug/Kg
127-18-4	Tetrachloroethene	1.70	U	1.70	9.70	ug/Kg
108-90-7	Chlorobenzene	1.40	U	1.40	9.70	ug/Kg
100-41-4	Ethyl Benzene	1.20	U	1.20	9.70	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924RE	SDG No.:	P3671
Lab Sample ID:	P3671-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	46.9
Sample Wt/Vol:	5.47 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019223.D	1		08/22/24 16:20	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1330-20-7	Total Xylenes	4.00	U	4.00	29.2	ug/Kg
179601-23-1	m/p-Xylenes	2.60	U	2.60	19.5	ug/Kg
95-47-6	o-Xylene	1.40	U	1.40	9.70	ug/Kg
98-82-8	Isopropylbenzene	1.30	U	1.30	9.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	9.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	9.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.6		70 (50) - 130 (163)	91%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	45.0		70 (58) - 130 (134)	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.0		70 (29) - 130 (146)	76%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	98000	7.701			
540-36-3	1,4-Difluorobenzene	150000	8.609			
3114-55-4	Chlorobenzene-d5	133000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	38800	13.346			

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_Y\Data\VY082224\
Data File : VY019223.D
Acq On : 22 Aug 2024 16:20
Operator : SY/MD
Sample : P3671-03RE
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924RE

Quant Time: Aug 23 01:54:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

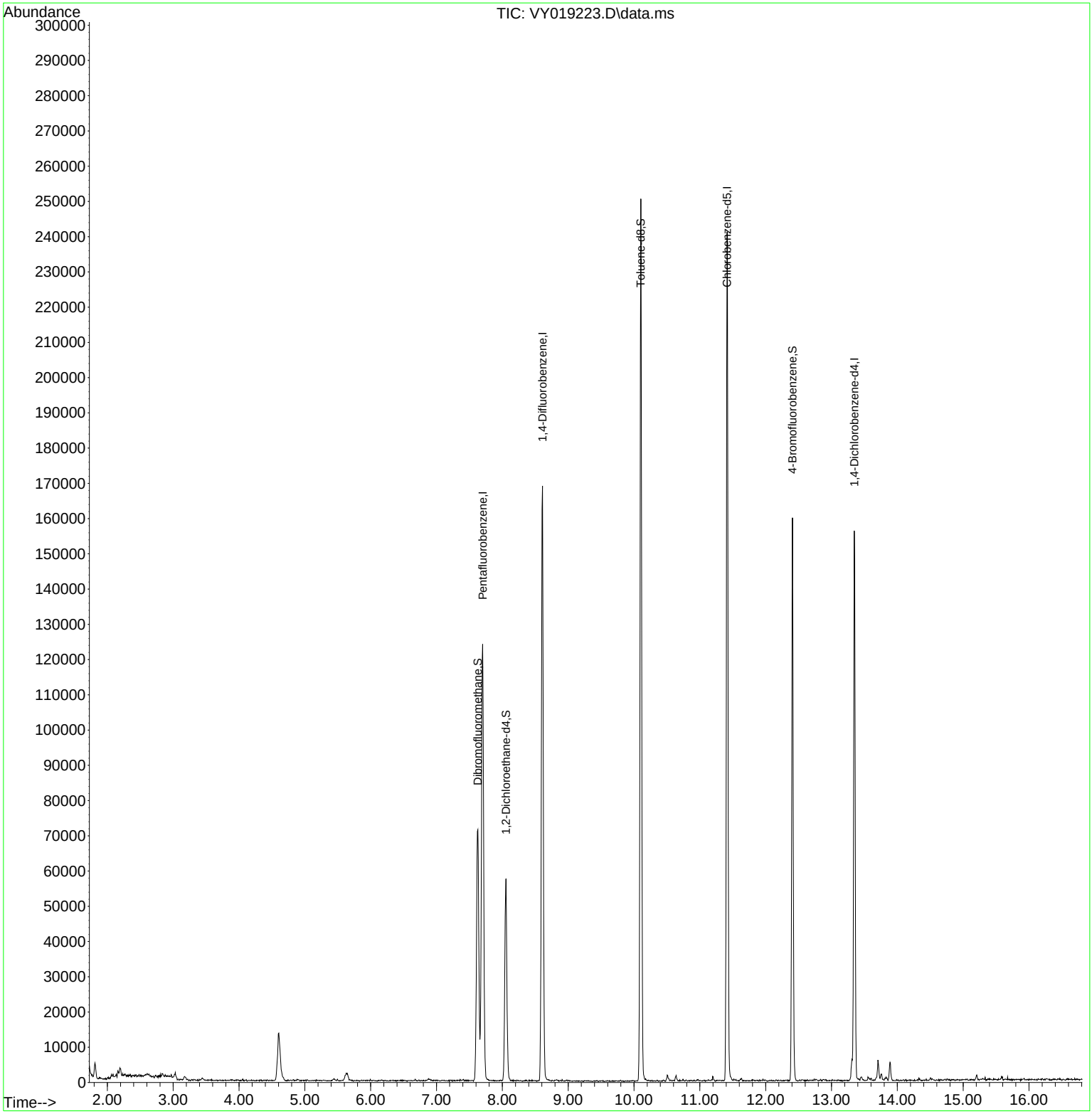
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	97952	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	149565	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	132652	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	38786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	44739	45.564	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 91.120%			
35) Dibromofluoromethane	7.628	113	51334	52.492	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.980%			
50) Toluene-d8	10.103	98	158234	44.962	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 89.920%			
62) 4-Bromofluorobenzene	12.408	95	45618	38.024	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 76.040%			
Target Compounds						Qvalue

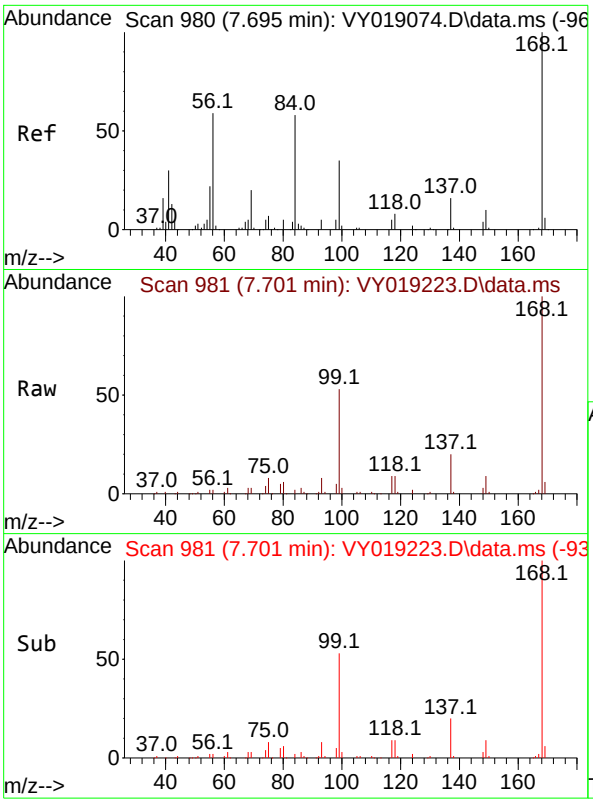
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019223.D
Acq On : 22 Aug 2024 16:20
Operator : SY/MD
Sample : P3671-03RE
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924RE

Quant Time: Aug 23 01:54:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



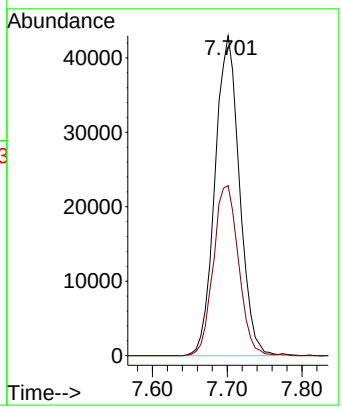


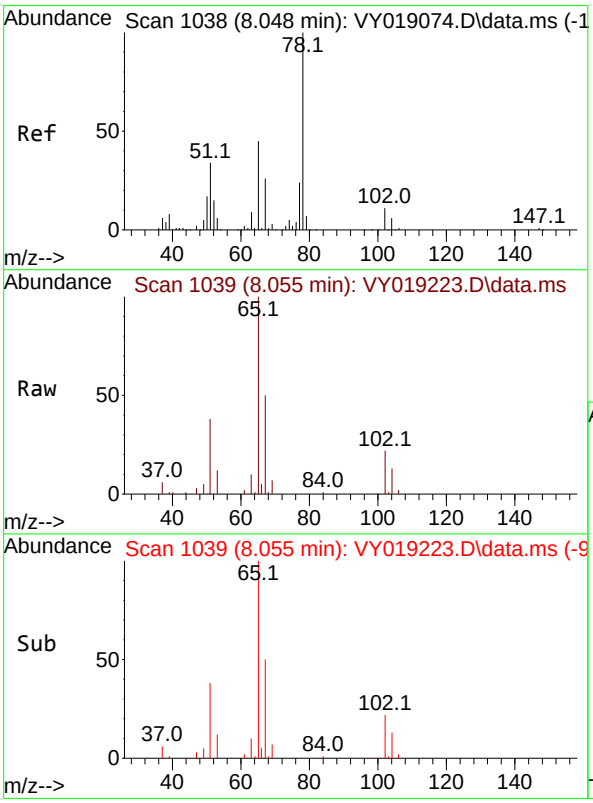
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019223.D
Acq: 22 Aug 2024 16:20

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924RE

Tgt Ion:168 Resp: 97952

Ion	Ratio	Lower	Upper
168	100		
99	53.1	39.1	58.7

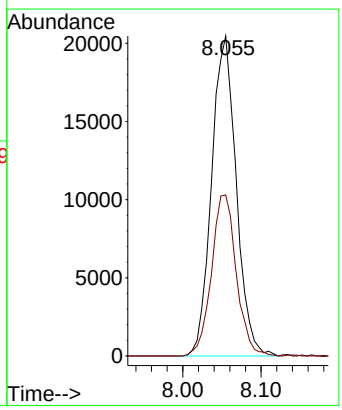


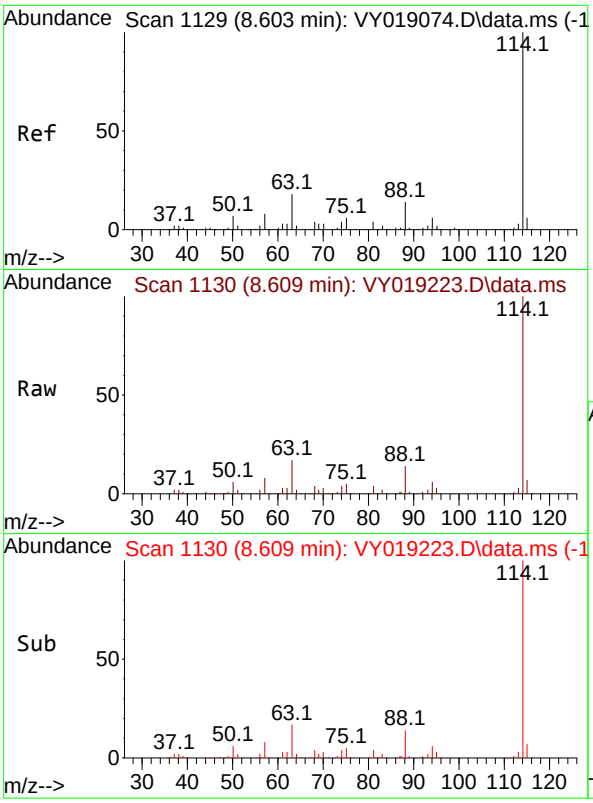


#33
1,2-Dichloroethane-d4
Concen: 45.564 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019223.D
Acq: 22 Aug 2024 16:20

Tgt Ion: 65 Resp: 44739

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	109.6



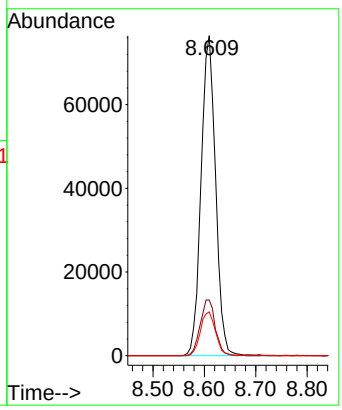


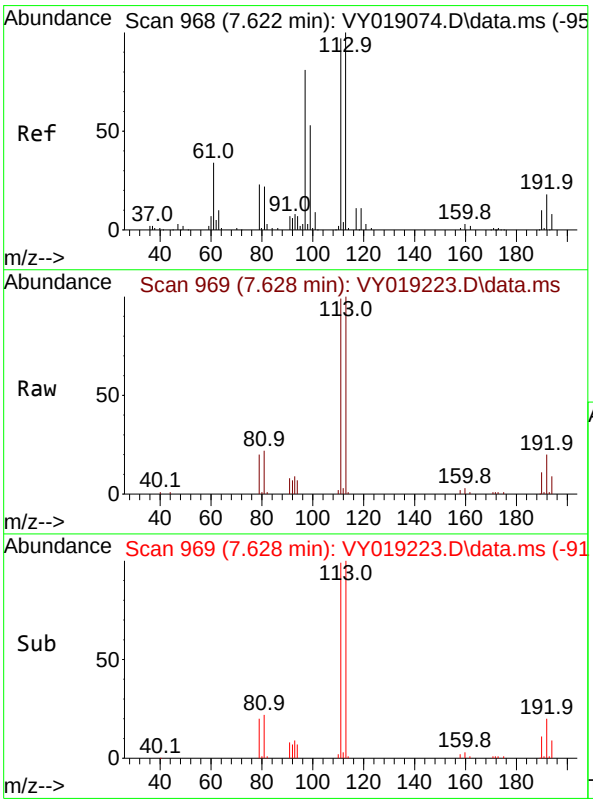
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019223.D
Acq: 22 Aug 2024 16:20

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924RE

Tgt Ion:114 Resp: 149565

Ion	Ratio	Lower	Upper
114	100		
63	17.4	0.0	35.0
88	13.7	0.0	27.2

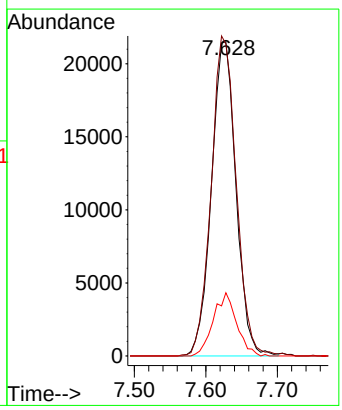


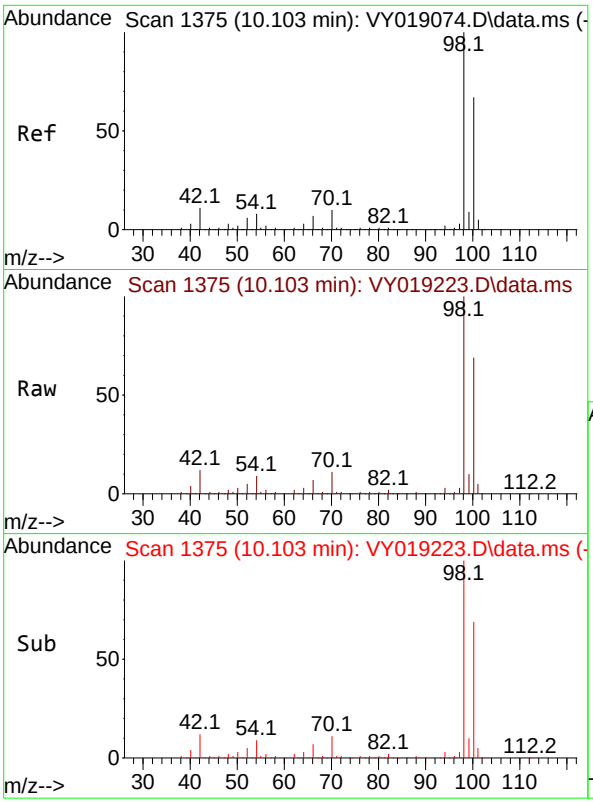


#35
Dibromofluoromethane
Concen: 52.492 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY019223.D
Acq: 22 Aug 2024 16:20

Tgt Ion:113 Resp: 51334

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.2	123.4
192	19.1	15.9	23.9



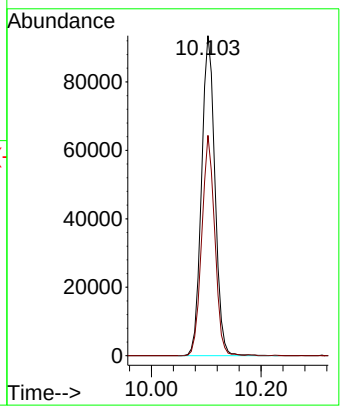


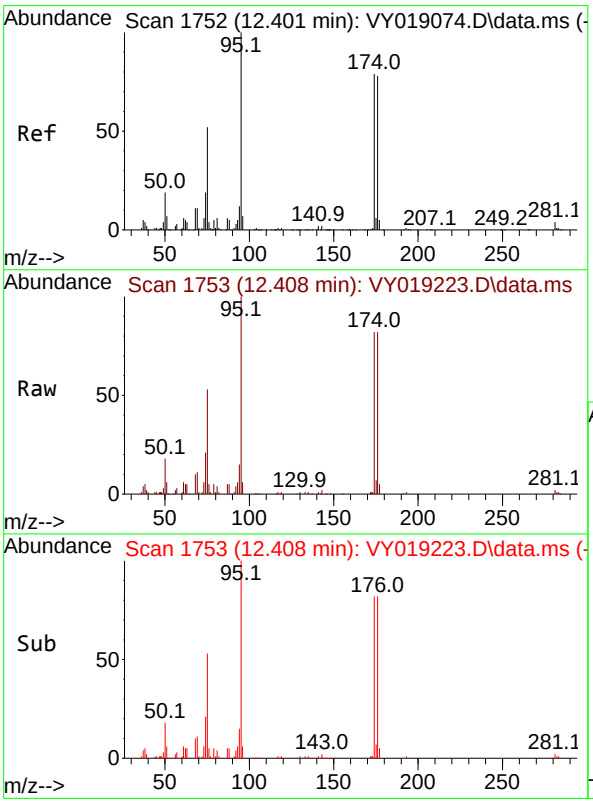
#50
Toluene-d8
Concen: 44.962 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019223.D
Acq: 22 Aug 2024 16:20

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924RE

Tgt Ion: 98 Resp: 158234

Ion	Ratio	Lower	Upper
98	100		
100	66.7	52.0	78.0

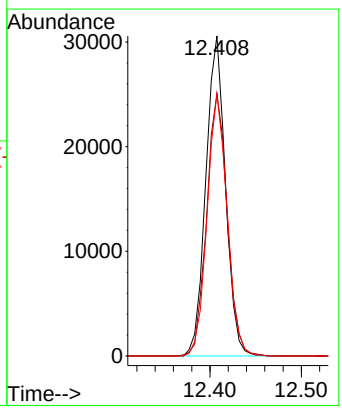


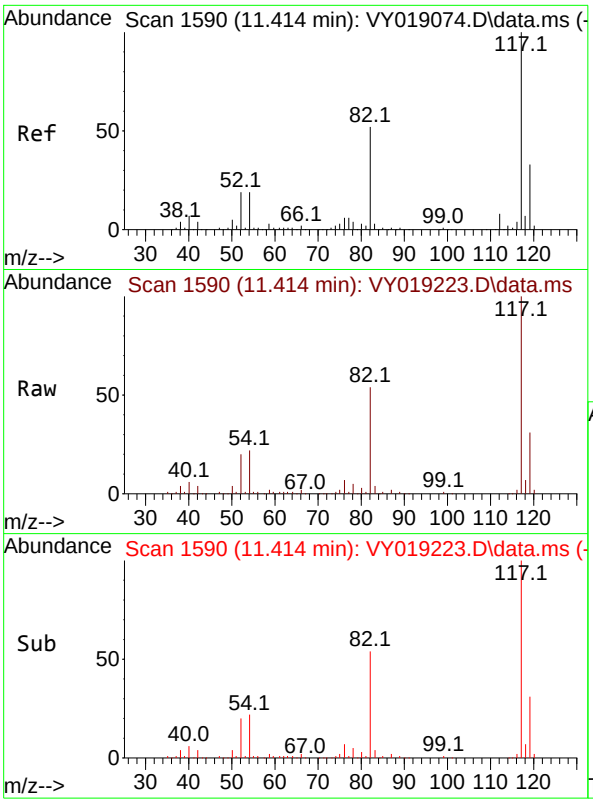


#62
4-Bromofluorobenzene
Concen: 38.024 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019223.D
Acq: 22 Aug 2024 16:20

Tgt Ion: 95 Resp: 45618

Ion	Ratio	Lower	Upper
95	100		
174	85.8	0.0	175.6
176	83.4	0.0	171.4



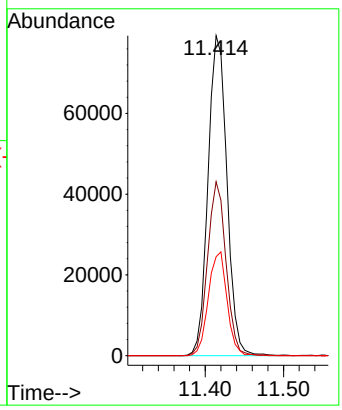


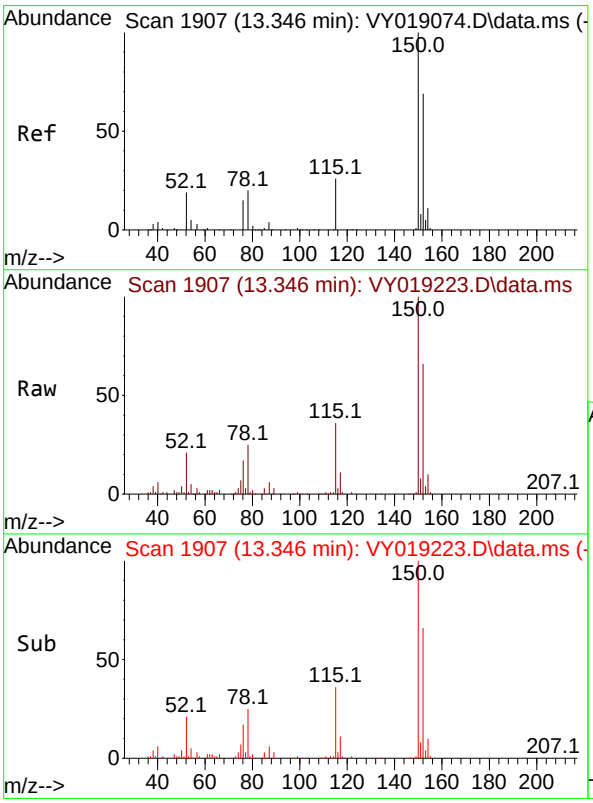
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019223.D
Acq: 22 Aug 2024 16:20

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924RE

Tgt Ion:117 Resp: 132652

Ion	Ratio	Lower	Upper
117	100		
82	54.4	42.4	63.6
119	30.9	25.9	38.9

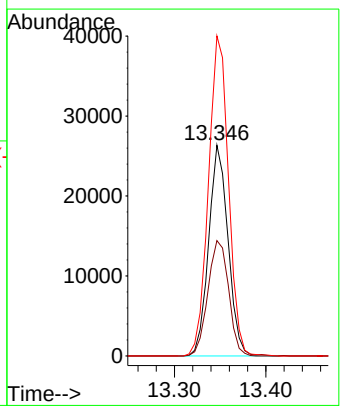




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019223.D
Acq: 22 Aug 2024 16:20

Tgt Ion:152 Resp: 38786

Ion	Ratio	Lower	Upper
152	100		
115	58.4	28.2	84.7
150	156.6	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	56
Sample Wt/Vol:	4.93 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019198.D	1		08/22/24 04:33	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	3.00	U	3.00	9.10	ug/Kg
74-87-3	Chloromethane	2.10	U	2.10	9.10	ug/Kg
75-01-4	Vinyl Chloride	1.40	U	1.40	9.10	ug/Kg
74-83-9	Bromomethane	1.90	U	1.90	9.10	ug/Kg
75-00-3	Chloroethane	1.80	U	1.80	9.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.90	U	1.90	9.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.40	U	1.40	9.10	ug/Kg
67-64-1	Acetone	11.3	U	11.3	45.3	ug/Kg
75-15-0	Carbon Disulfide	2.30	U	2.30	9.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.20	U	1.20	9.10	ug/Kg
75-09-2	Methylene Chloride	6.20	U	6.20	18.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.50	U	1.50	9.10	ug/Kg
75-34-3	1,1-Dichloroethane	1.10	U	1.10	9.10	ug/Kg
110-82-7	Cyclohexane	1.20	U	1.20	9.10	ug/Kg
78-93-3	2-Butanone	10.3	U	10.3	45.3	ug/Kg
56-23-5	Carbon Tetrachloride	1.60	U	1.60	9.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.10	U	1.10	9.10	ug/Kg
67-66-3	Chloroform	1.20	U	1.20	9.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.40	U	1.40	9.10	ug/Kg
108-87-2	Methylcyclohexane	1.60	U	1.60	9.10	ug/Kg
71-43-2	Benzene	1.30	U	1.30	9.10	ug/Kg
107-06-2	1,2-Dichloroethane	1.10	U	1.10	9.10	ug/Kg
79-01-6	Trichloroethene	1.40	U	1.40	9.10	ug/Kg
75-27-4	Bromodichloromethane	1.00	U	1.00	9.10	ug/Kg
108-88-3	Toluene	1.20	U	1.20	9.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.50	U	1.50	9.10	ug/Kg
124-48-1	Dibromochloromethane	1.20	U	1.20	9.10	ug/Kg
127-18-4	Tetrachloroethene	1.60	U	1.60	9.10	ug/Kg
108-90-7	Chlorobenzene	1.30	U	1.30	9.10	ug/Kg
100-41-4	Ethyl Benzene	1.10	U	1.10	9.10	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	56
Sample Wt/Vol:	4.93 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019198.D	1		08/22/24 04:33	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1330-20-7	Total Xylenes	3.70	U	3.70	27.2	ug/Kg
179601-23-1	m/p-Xylenes	2.40	U	2.40	18.1	ug/Kg
95-47-6	o-Xylene	1.30	U	1.30	9.10	ug/Kg
98-82-8	Isopropylbenzene	1.20	U	1.20	9.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	9.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	9.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		70 (50) - 130 (163)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 (54) - 130 (147)	102%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (58) - 130 (134)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	34.3	*	70 (29) - 130 (146)	69%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	82700	7.707			
540-36-3	1,4-Difluorobenzene	143000	8.61			
3114-55-4	Chlorobenzene-d5	117000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	31900	13.353			

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_Y\Data\VY082124\
Data File : VY019198.D
Acq On : 22 Aug 2024 04:33
Operator : SY/MD
Sample : P3671-04
Misc : 4.93g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0.5-1-081924

Quant Time: Aug 22 06:29:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

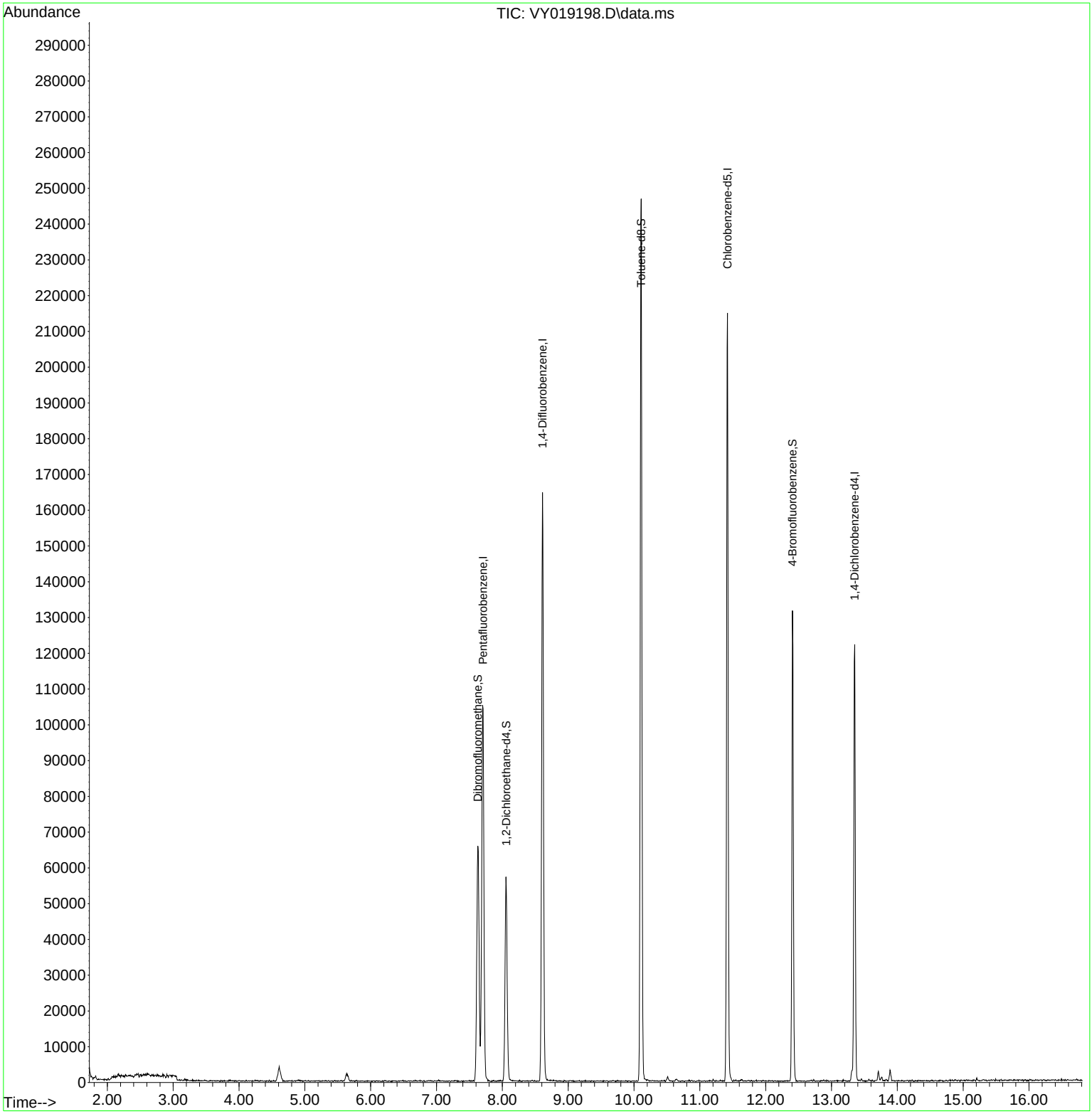
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	82692	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.610	114	143091	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	117154	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	31892	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	42857	51.702	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.400%			
35) Dibromofluoromethane	7.628	113	47750	51.036	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.080%			
50) Toluene-d8	10.109	98	160644	47.712	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.420%			
62) 4-Bromofluorobenzene	12.408	95	39364	34.296	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 68.600%			
Target Compounds						Qvalue

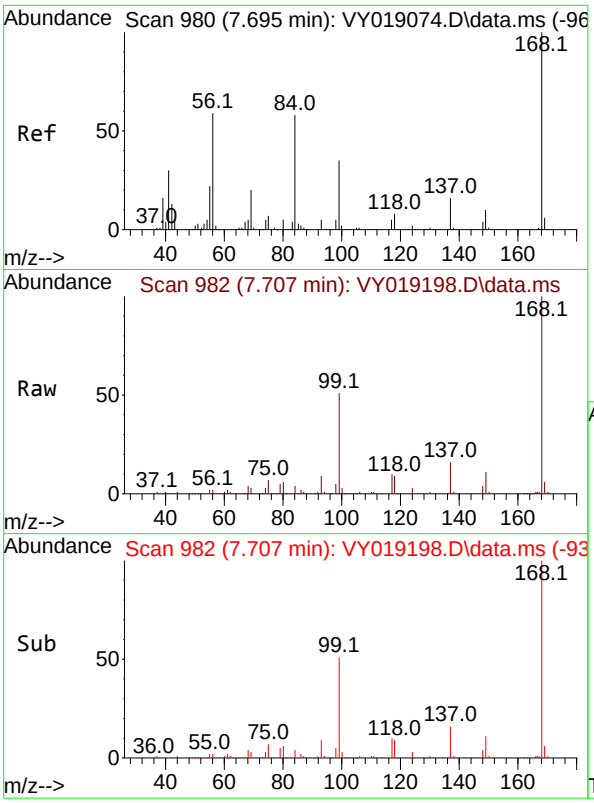
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019198.D
Acq On : 22 Aug 2024 04:33
Operator : SY/MD
Sample : P3671-04
Misc : 4.93g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0.5-1-081924

Quant Time: Aug 22 06:29:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



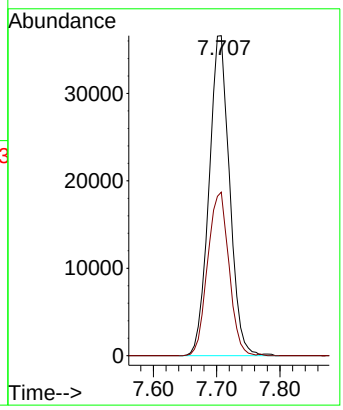


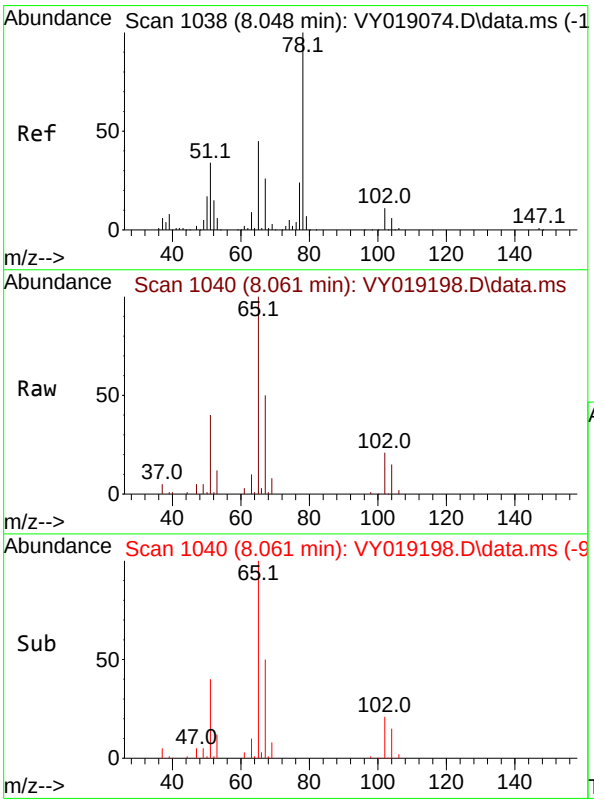
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY019198.D
Acq: 22 Aug 2024 04:33

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0.5-1-081924

Tgt Ion:168 Resp: 82692

Ion	Ratio	Lower	Upper
168	100		
99	51.1	39.1	58.7

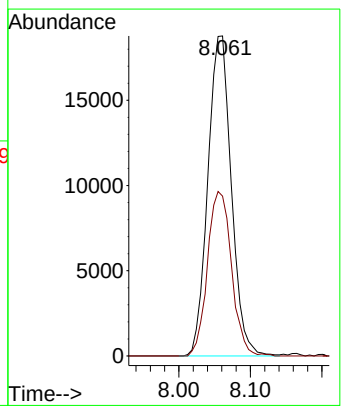


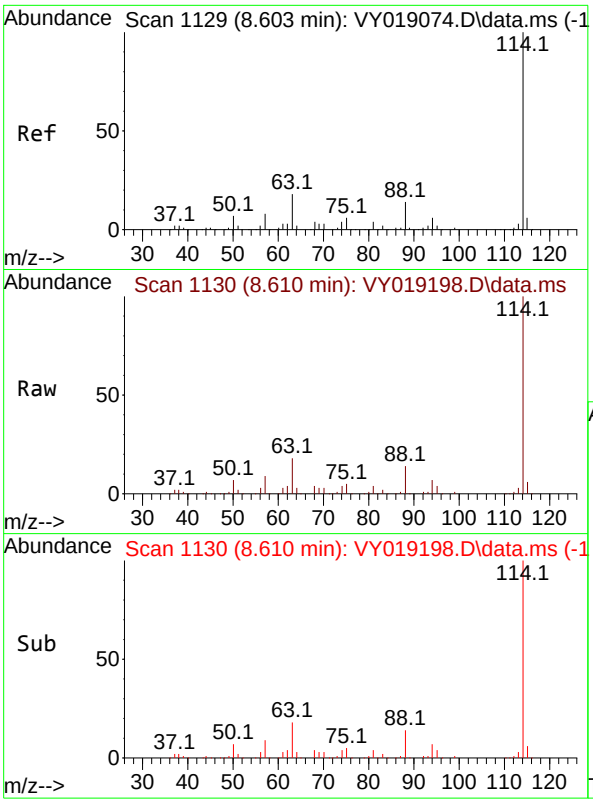


#33
1,2-Dichloroethane-d4
Concen: 51.702 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.013 min
Lab File: VY019198.D
Acq: 22 Aug 2024 04:33

Tgt Ion: 65 Resp: 42857

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	109.6



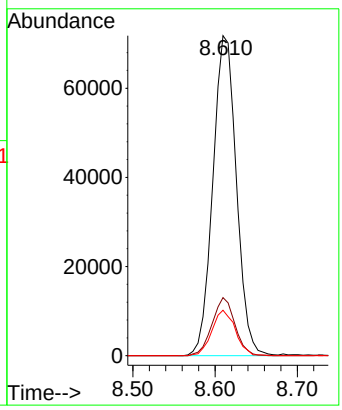


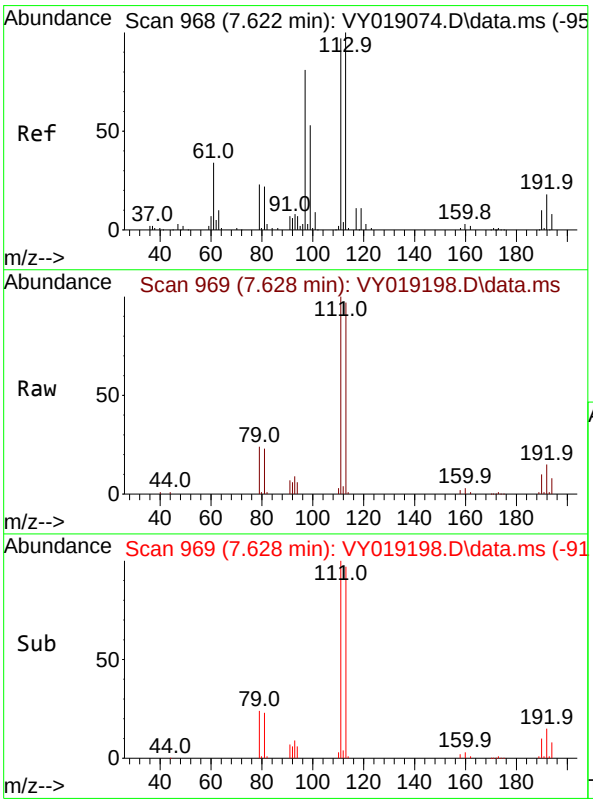
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019198.D
Acq: 22 Aug 2024 04:33

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0.5-1-081924

Tgt Ion:114 Resp: 143091

Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	35.0
88	14.2	0.0	27.2

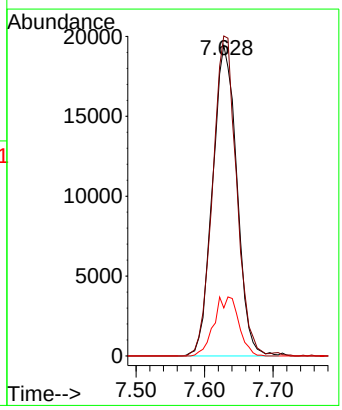


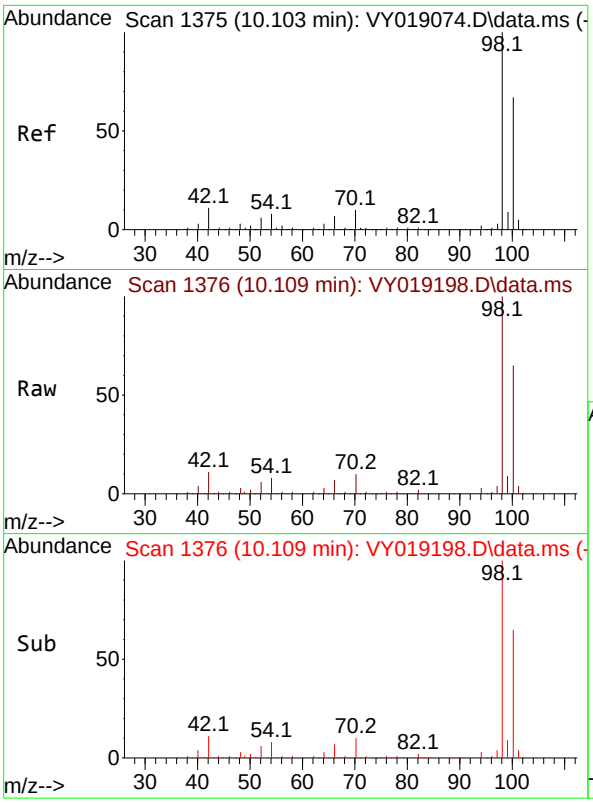


#35
Dibromofluoromethane
Concen: 51.036 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY019198.D
Acq: 22 Aug 2024 04:33

Tgt Ion:113 Resp: 47750

Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.2	123.4
192	19.4	15.9	23.9



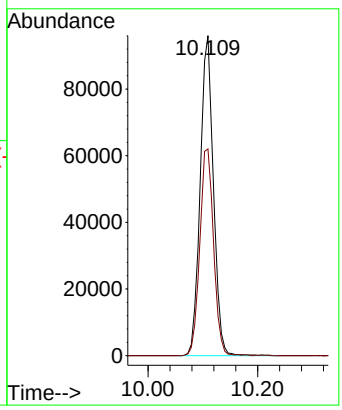


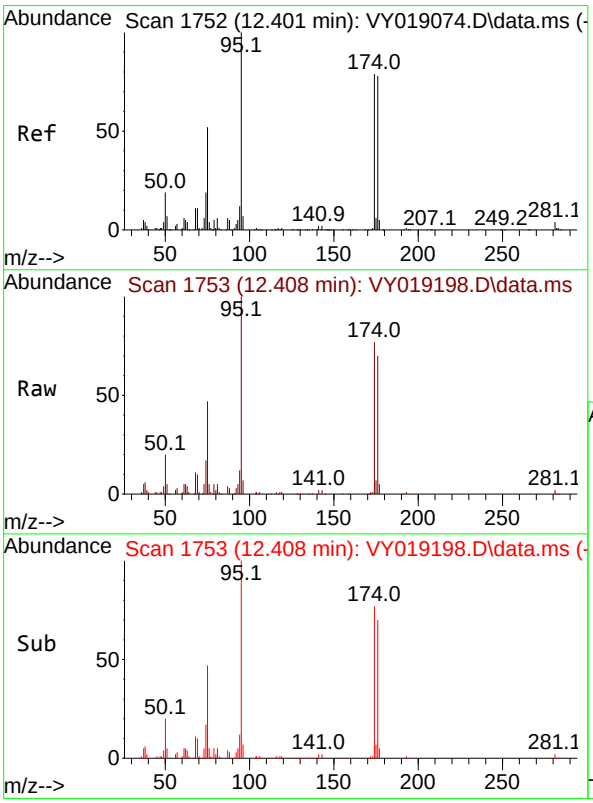
#50
Toluene-d8
Concen: 47.712 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019198.D
Acq: 22 Aug 2024 04:33

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0.5-1-081924

Tgt Ion: 98 Resp: 160644

Ion	Ratio	Lower	Upper
98	100		
100	67.3	52.0	78.0

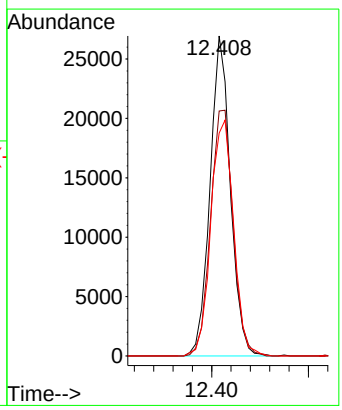


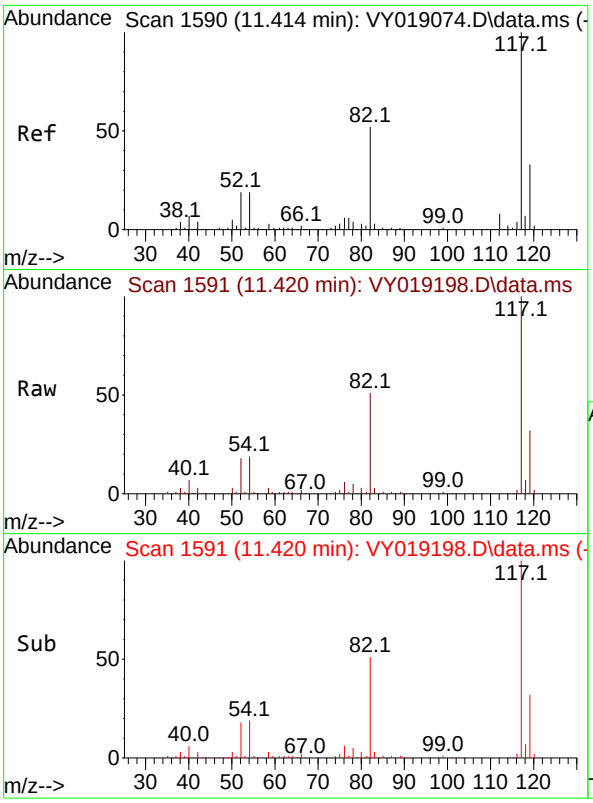


#62
4-Bromofluorobenzene
Concen: 34.296 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019198.D
Acq: 22 Aug 2024 04:33

Tgt Ion: 95 Resp: 39364

Ion	Ratio	Lower	Upper
95	100		
174	84.9	0.0	175.6
176	82.5	0.0	171.4



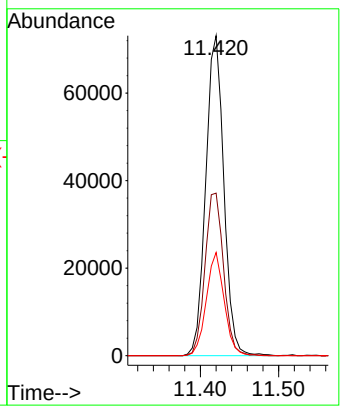


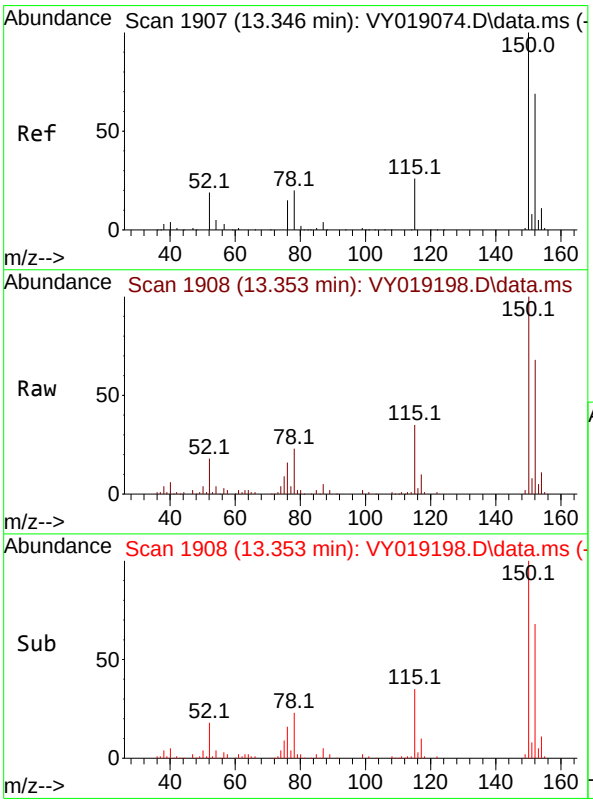
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019198.D
Acq: 22 Aug 2024 04:33

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0.5-1-081924

Tgt Ion:117 Resp: 117154

Ion	Ratio	Lower	Upper
117	100		
82	50.8	42.4	63.6
119	32.2	25.9	38.9

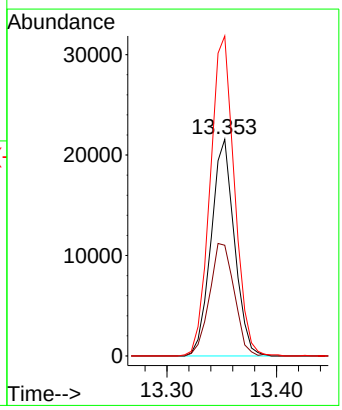




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019198.D
Acq: 22 Aug 2024 04:33

Tgt Ion:152 Resp: 31892

Ion	Ratio	Lower	Upper
152	100		
115	55.2	28.2	84.7
150	153.5	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0.5-1-081924RE	SDG No.:	P3671
Lab Sample ID:	P3671-04RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	56
Sample Wt/Vol:	4.73 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019224.D	1		08/22/24 16:45	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	3.10	U	3.10	9.40	ug/Kg
74-87-3	Chloromethane	2.20	U	2.20	9.40	ug/Kg
75-01-4	Vinyl Chloride	1.50	U	1.50	9.40	ug/Kg
74-83-9	Bromomethane	1.90	U	1.90	9.40	ug/Kg
75-00-3	Chloroethane	1.90	U	1.90	9.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.00	U	2.00	9.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.50	U	1.50	9.40	ug/Kg
67-64-1	Acetone	11.8	U	11.8	47.2	ug/Kg
75-15-0	Carbon Disulfide	2.40	U	2.40	9.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.30	U	1.30	9.40	ug/Kg
75-09-2	Methylene Chloride	6.40	U	6.40	18.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.60	U	1.60	9.40	ug/Kg
75-34-3	1,1-Dichloroethane	1.20	U	1.20	9.40	ug/Kg
110-82-7	Cyclohexane	1.30	U	1.30	9.40	ug/Kg
78-93-3	2-Butanone	10.7	U	10.7	47.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.60	U	1.60	9.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.20	U	1.20	9.40	ug/Kg
67-66-3	Chloroform	1.30	U	1.30	9.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.50	U	1.50	9.40	ug/Kg
108-87-2	Methylcyclohexane	1.60	U	1.60	9.40	ug/Kg
71-43-2	Benzene	1.40	U	1.40	9.40	ug/Kg
107-06-2	1,2-Dichloroethane	1.20	U	1.20	9.40	ug/Kg
79-01-6	Trichloroethene	1.40	U	1.40	9.40	ug/Kg
75-27-4	Bromodichloromethane	1.10	U	1.10	9.40	ug/Kg
108-88-3	Toluene	1.30	U	1.30	9.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.60	U	1.60	9.40	ug/Kg
124-48-1	Dibromochloromethane	1.20	U	1.20	9.40	ug/Kg
127-18-4	Tetrachloroethene	1.70	U	1.70	9.40	ug/Kg
108-90-7	Chlorobenzene	1.40	U	1.40	9.40	ug/Kg
100-41-4	Ethyl Benzene	1.20	U	1.20	9.40	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0.5-1-081924RE	SDG No.:	P3671
Lab Sample ID:	P3671-04RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	56
Sample Wt/Vol:	4.73 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019224.D	1		08/22/24 16:45	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1330-20-7	Total Xylenes	3.80	U	3.80	28.3	ug/Kg
179601-23-1	m/p-Xylenes	2.50	U	2.50	18.9	ug/Kg
95-47-6	o-Xylene	1.30	U	1.30	9.40	ug/Kg
98-82-8	Isopropylbenzene	1.30	U	1.30	9.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	9.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	9.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	36.7		70 (50) - 130 (163)	73%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		70 (54) - 130 (147)	107%	SPK: 50
2037-26-5	Toluene-d8	54.1		70 (58) - 130 (134)	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	30.3	*	70 (29) - 130 (146)	61%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	108000	7.701			
540-36-3	1,4-Difluorobenzene	146000	8.609			
3114-55-4	Chlorobenzene-d5	119000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	25900	13.346			

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_Y\Data\VY082224\
Data File : VY019224.D
Acq On : 22 Aug 2024 16:45
Operator : SY/MD
Sample : P3671-04RE
Misc : 4.73g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0.5-1-081924RE

Quant Time: Aug 23 01:54:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	107787	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	145889	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	119363	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	25907	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	39635	36.683	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 73.360%			
35) Dibromofluoromethane	7.628	113	50955	53.417	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.840%			
50) Toluene-d8	10.103	98	185552	54.053	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 108.100%			
62) 4-Bromofluorobenzene	12.408	95	35428	30.274	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 60.540%			

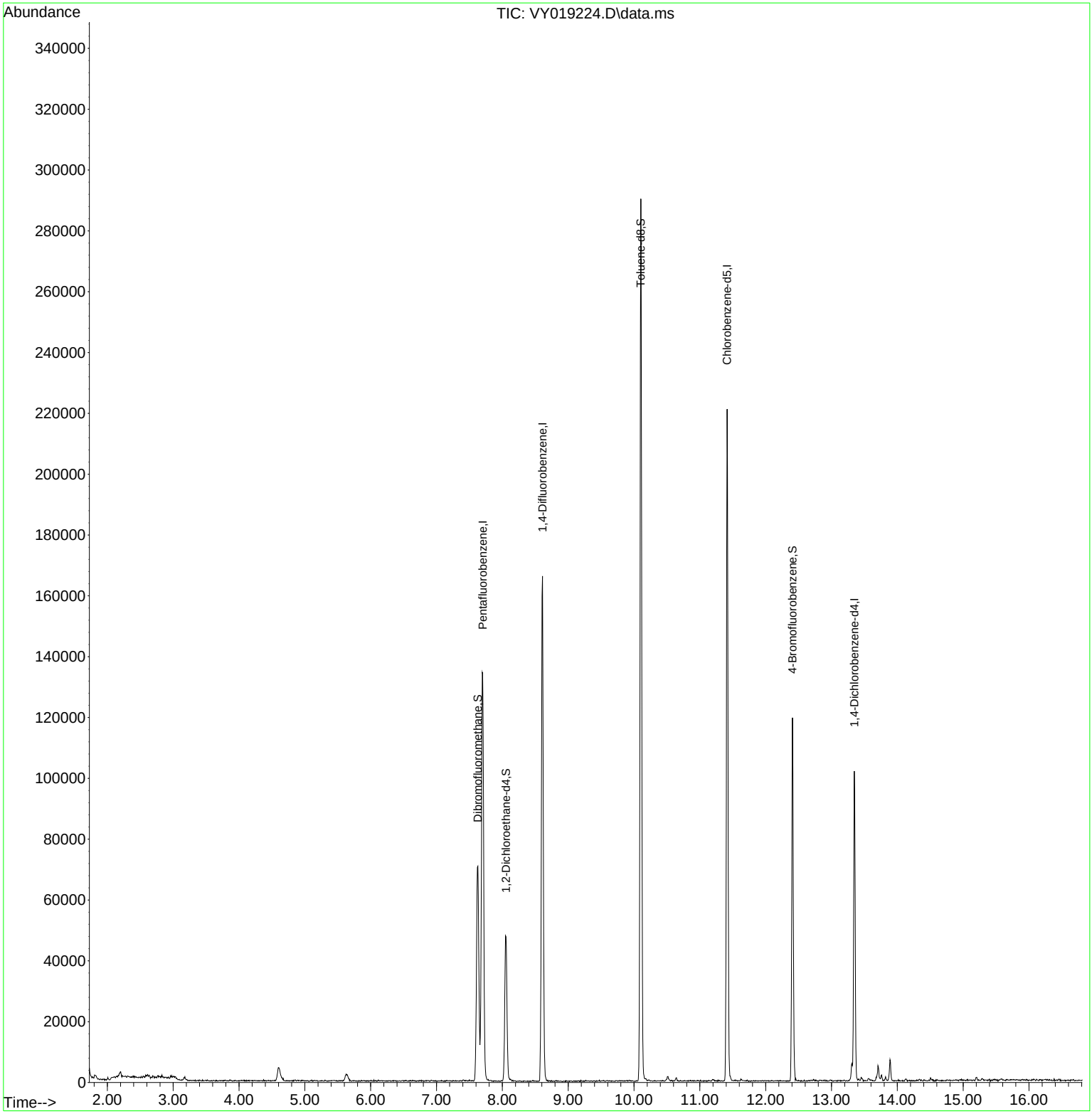
Target Compounds Qvalue

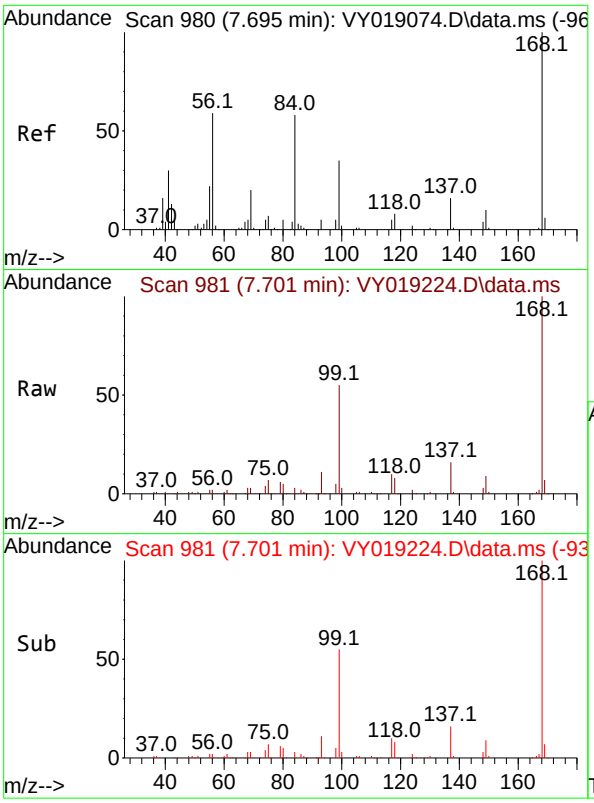
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019224.D
Acq On : 22 Aug 2024 16:45
Operator : SY/MD
Sample : P3671-04RE
Misc : 4.73g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0.5-1-081924RE

Quant Time: Aug 23 01:54:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



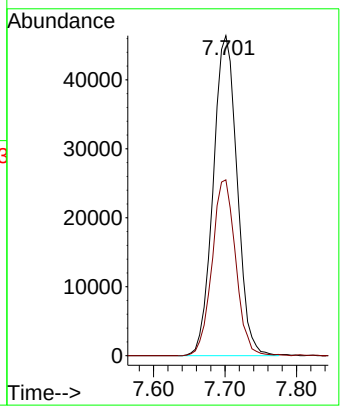


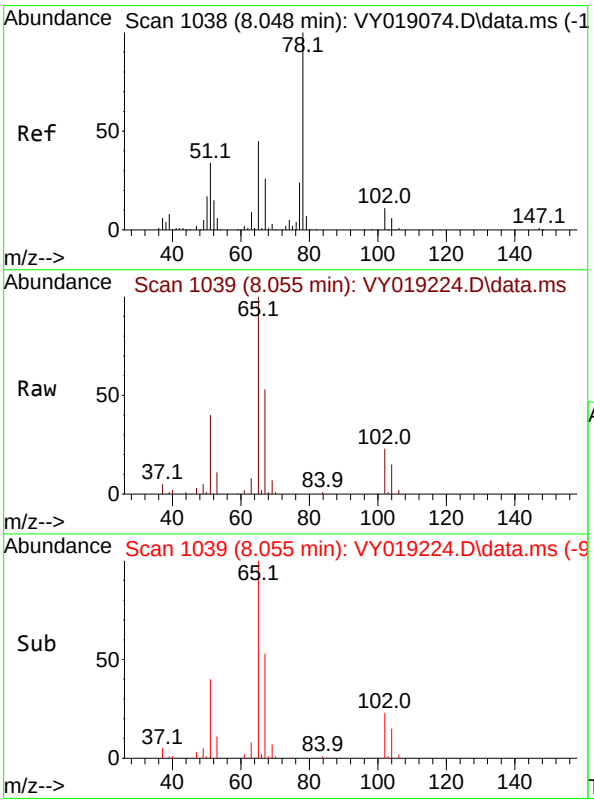
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019224.D
Acq: 22 Aug 2024 16:45

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0.5-1-081924RE

Tgt Ion:168 Resp: 107787

Ion	Ratio	Lower	Upper
168	100		
99	55.0	39.1	58.7

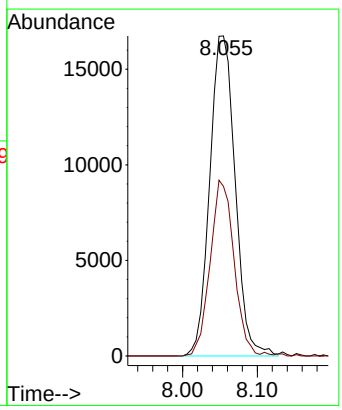


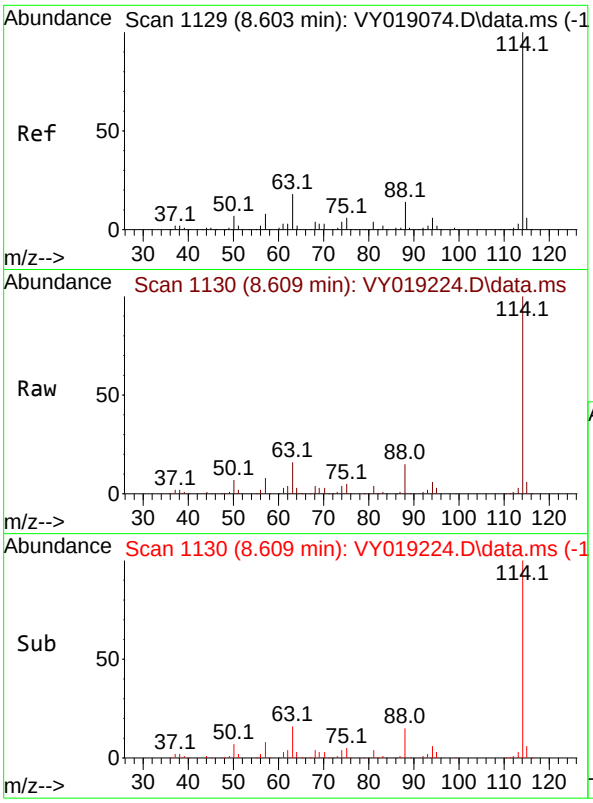


#33
1,2-Dichloroethane-d4
Concen: 36.683 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019224.D
Acq: 22 Aug 2024 16:45

Tgt Ion: 65 Resp: 39635

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	109.6



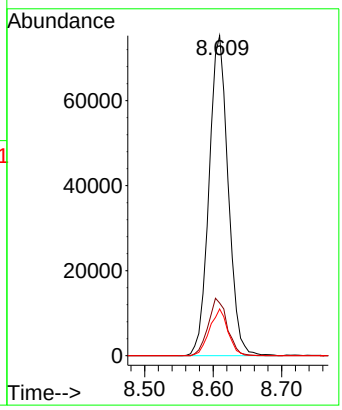


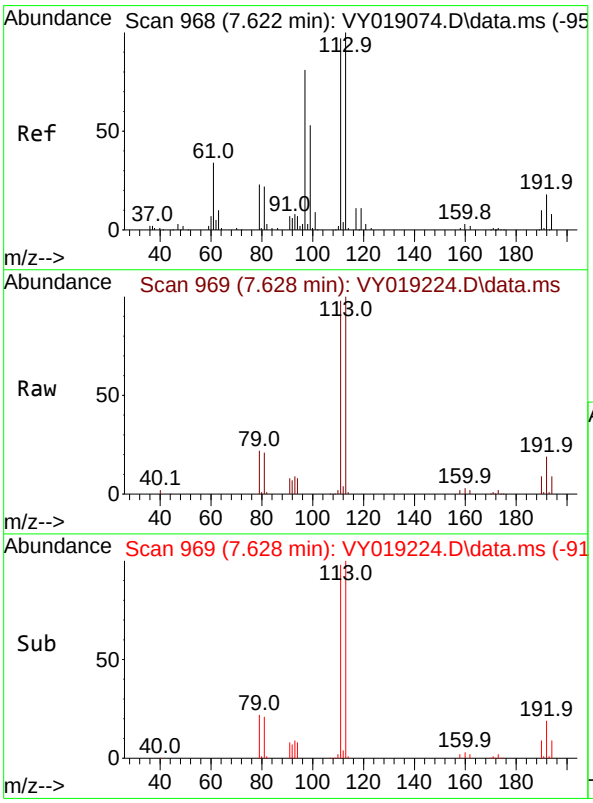
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019224.D
Acq: 22 Aug 2024 16:45

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0.5-1-081924RE

Tgt Ion:114 Resp: 145889

Ion	Ratio	Lower	Upper
114	100		
63	16.5	0.0	35.0
88	14.6	0.0	27.2

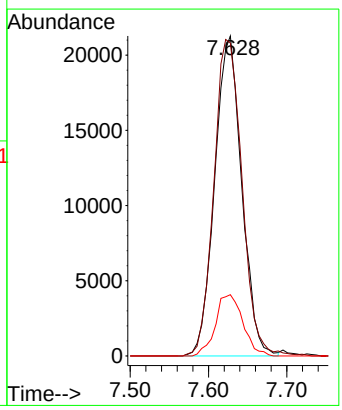


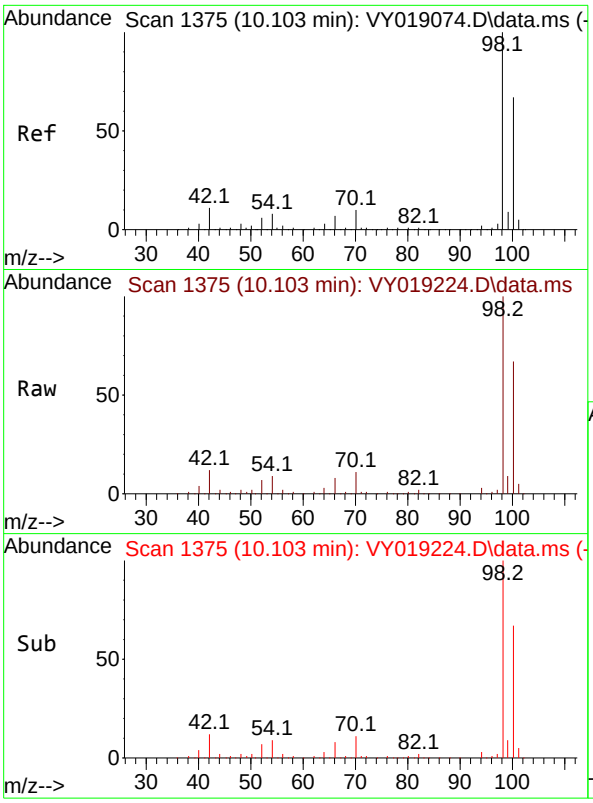


#35
Dibromofluoromethane
Concen: 53.417 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY019224.D
Acq: 22 Aug 2024 16:45

Tgt Ion:113 Resp: 50955

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.2	123.4
192	19.5	15.9	23.9



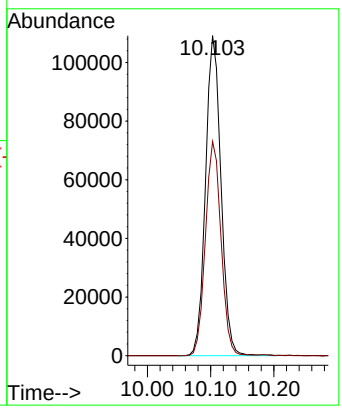


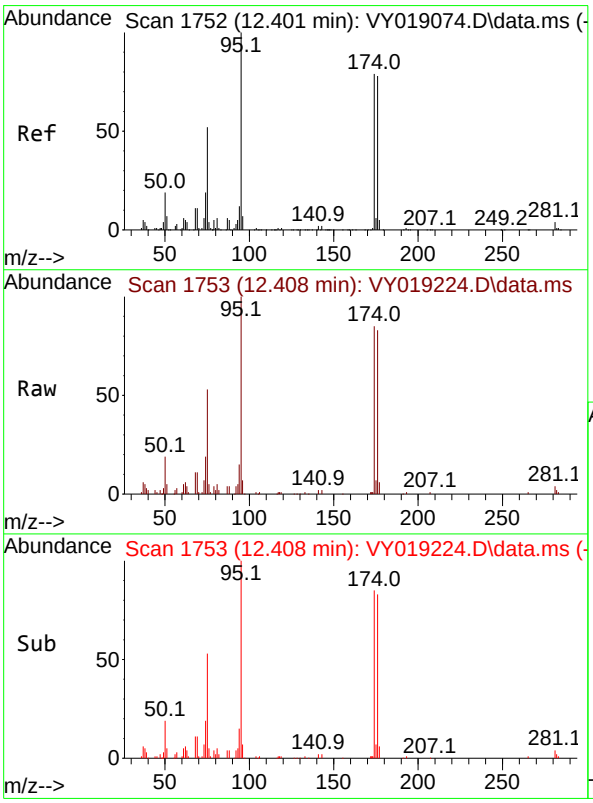
#50
Toluene-d8
Concen: 54.053 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019224.D
Acq: 22 Aug 2024 16:45

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0.5-1-081924RE

Tgt Ion: 98 Resp: 185552

Ion	Ratio	Lower	Upper
98	100		
100	67.5	52.0	78.0

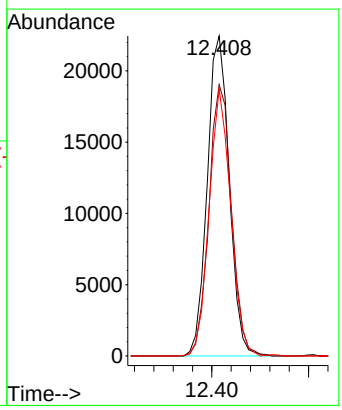


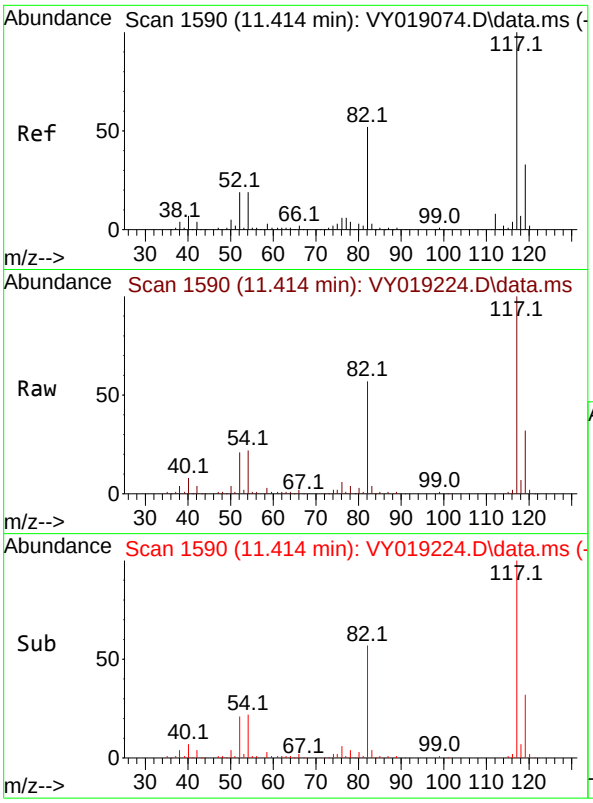


#62
4-Bromofluorobenzene
Concen: 30.274 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019224.D
Acq: 22 Aug 2024 16:45

Tgt Ion: 95 Resp: 35428

Ion	Ratio	Lower	Upper
95	100		
174	86.7	0.0	175.6
176	82.2	0.0	171.4



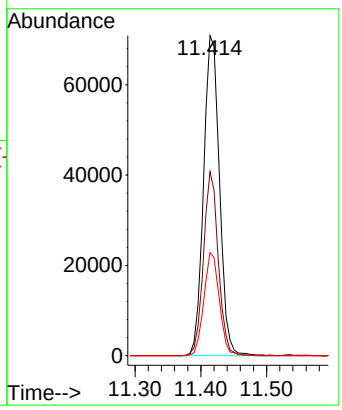


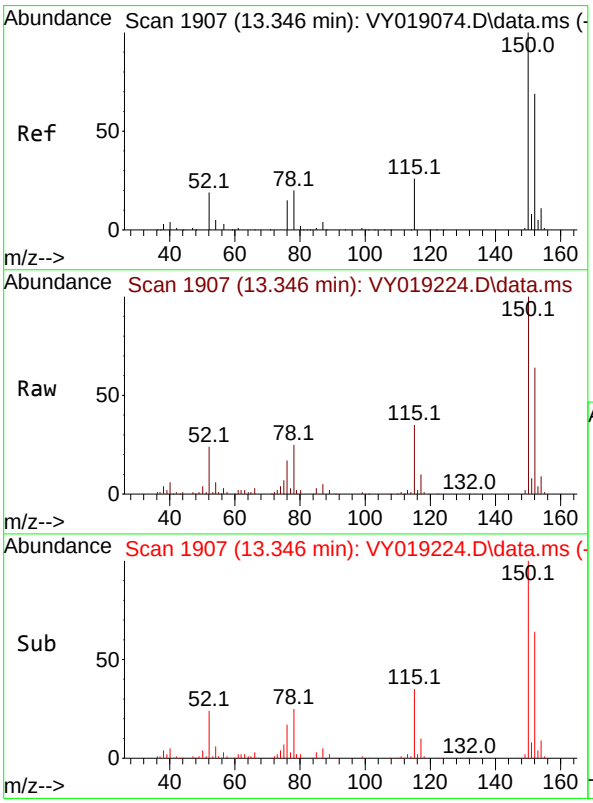
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019224.D
Acq: 22 Aug 2024 16:45

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0.5-1-081924RE

Tgt Ion:117 Resp: 119363

Ion	Ratio	Lower	Upper
117	100		
82	57.5	42.4	63.6
119	32.2	25.9	38.9

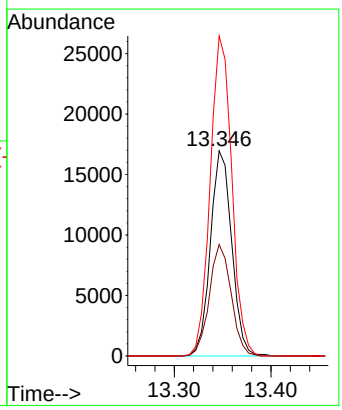




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019224.D
Acq: 22 Aug 2024 16:45

Tgt Ion:152 Resp: 25907

Ion	Ratio	Lower	Upper
152	100		
115	55.6	28.2	84.7
150	157.7	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924-FD	SDG No.:	P3671
Lab Sample ID:	P3671-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	35
Sample Wt/Vol:	5.35 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019199.D	1		08/22/24 04:57	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	4.40	U	4.40	13.4	ug/Kg
74-87-3	Chloromethane	3.10	U	3.10	13.4	ug/Kg
75-01-4	Vinyl Chloride	2.10	U	2.10	13.4	ug/Kg
74-83-9	Bromomethane	2.80	U	2.80	13.4	ug/Kg
75-00-3	Chloroethane	2.70	U	2.70	13.4	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.90	U	2.90	13.4	ug/Kg
75-35-4	1,1-Dichloroethene	2.10	U	2.10	13.4	ug/Kg
67-64-1	Acetone	16.7	U	16.7	66.8	ug/Kg
75-15-0	Carbon Disulfide	3.40	U	3.40	13.4	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.80	U	1.80	13.4	ug/Kg
75-09-2	Methylene Chloride	9.10	U	9.10	26.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.20	U	2.20	13.4	ug/Kg
75-34-3	1,1-Dichloroethane	1.70	U	1.70	13.4	ug/Kg
110-82-7	Cyclohexane	1.80	U	1.80	13.4	ug/Kg
78-93-3	2-Butanone	15.2	U	15.2	66.8	ug/Kg
56-23-5	Carbon Tetrachloride	2.30	U	2.30	13.4	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.60	U	1.60	13.4	ug/Kg
67-66-3	Chloroform	1.80	U	1.80	13.4	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.10	U	2.10	13.4	ug/Kg
108-87-2	Methylcyclohexane	2.30	U	2.30	13.4	ug/Kg
71-43-2	Benzene	1.90	U	1.90	13.4	ug/Kg
107-06-2	1,2-Dichloroethane	1.60	U	1.60	13.4	ug/Kg
79-01-6	Trichloroethene	2.00	U	2.00	13.4	ug/Kg
75-27-4	Bromodichloromethane	1.50	U	1.50	13.4	ug/Kg
108-88-3	Toluene	1.80	U	1.80	13.4	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.20	U	2.20	13.4	ug/Kg
124-48-1	Dibromochloromethane	1.70	U	1.70	13.4	ug/Kg
127-18-4	Tetrachloroethene	2.40	U	2.40	13.4	ug/Kg
108-90-7	Chlorobenzene	2.00	U	2.00	13.4	ug/Kg
100-41-4	Ethyl Benzene	1.70	U	1.70	13.4	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924-FD	SDG No.:	P3671
Lab Sample ID:	P3671-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	35
Sample Wt/Vol:	5.35 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019199.D	1		08/22/24 04:57	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	3.60	U	3.60	26.7	ug/Kg
1330-20-7	Total Xylenes	5.50	U	5.50	40.1	ug/Kg
95-47-6	o-Xylene	1.90	U	1.90	13.4	ug/Kg
98-82-8	Isopropylbenzene	1.80	U	1.80	13.4	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.10	U	2.10	13.4	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.60	U	1.60	13.4	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.9		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	46.8		70 (58) - 130 (134)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.5		70 (29) - 130 (146)	73%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	81600	7.707			
540-36-3	1,4-Difluorobenzene	146000	8.609			
3114-55-4	Chlorobenzene-d5	123000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	38700	13.352			

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_Y\Data\VY082124\
Data File : VY019199.D
Acq On : 22 Aug 2024 04:57
Operator : SY/MD
Sample : P3671-05
Misc : 5.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924-FD

Quant Time: Aug 22 06:29:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

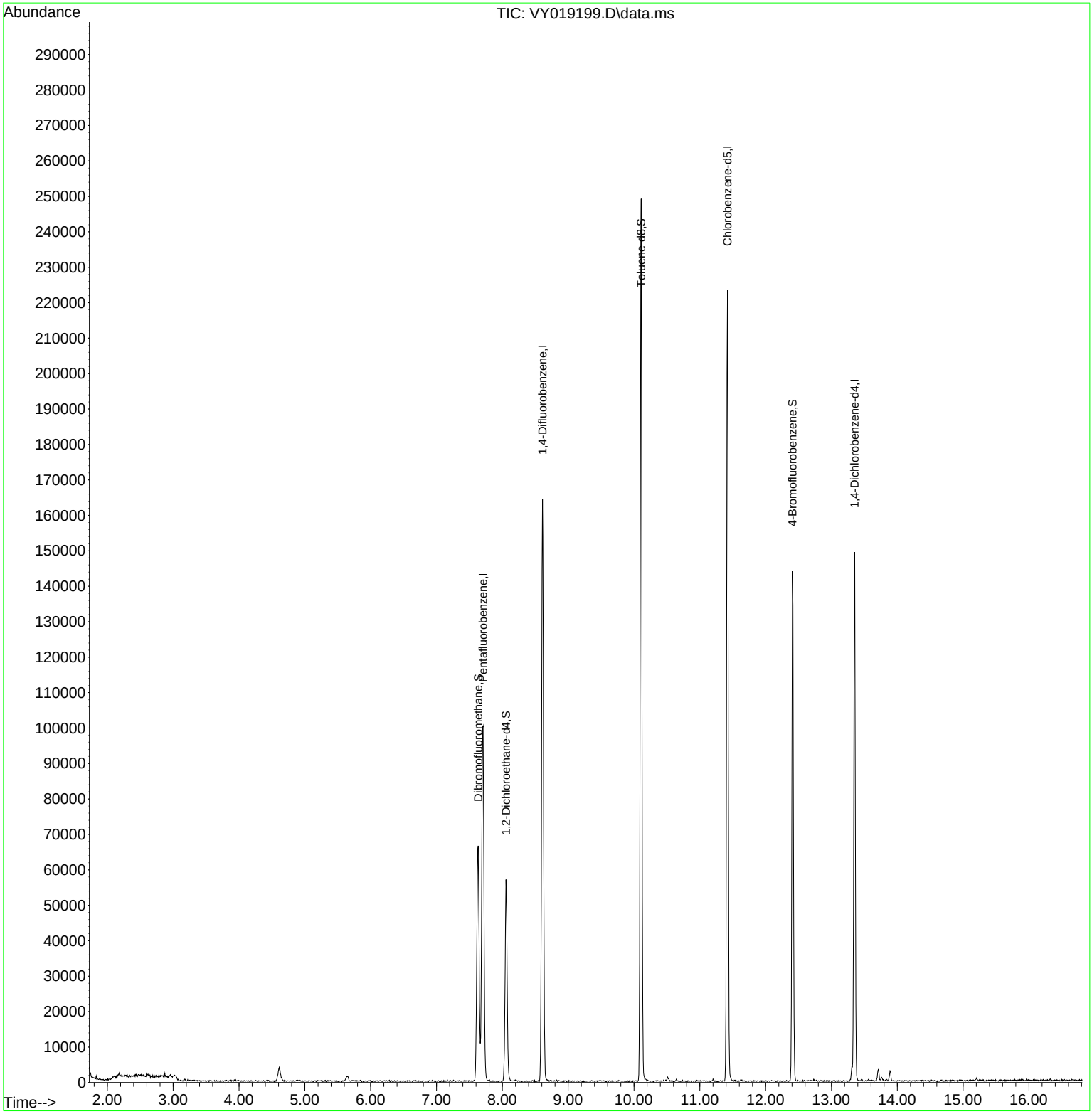
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	81637	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.609	114	146493	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	122862	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	38679	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	42446	51.868	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.740%			
35) Dibromofluoromethane	7.634	113	48168	50.287	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.580%			
50) Toluene-d8	10.109	98	161402	46.824	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 93.640%			
62) 4-Bromofluorobenzene	12.408	95	42871	36.484	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 72.960%			
Target Compounds						Qvalue

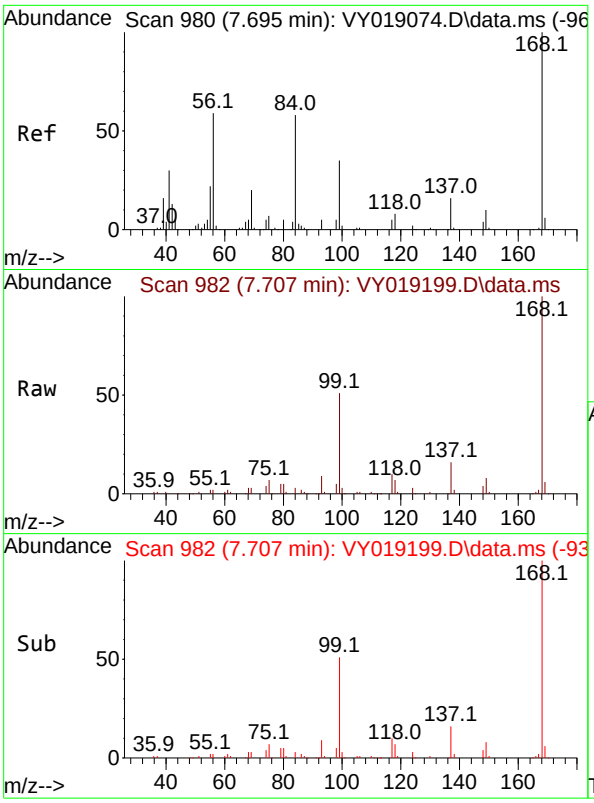
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019199.D
Acq On : 22 Aug 2024 04:57
Operator : SY/MD
Sample : P3671-05
Misc : 5.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924-FD

Quant Time: Aug 22 06:29:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



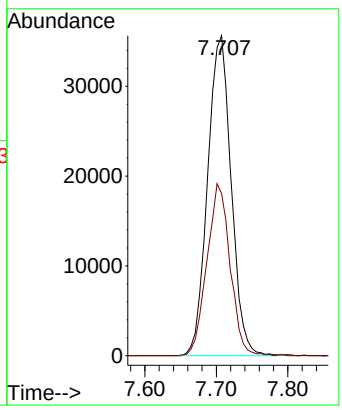


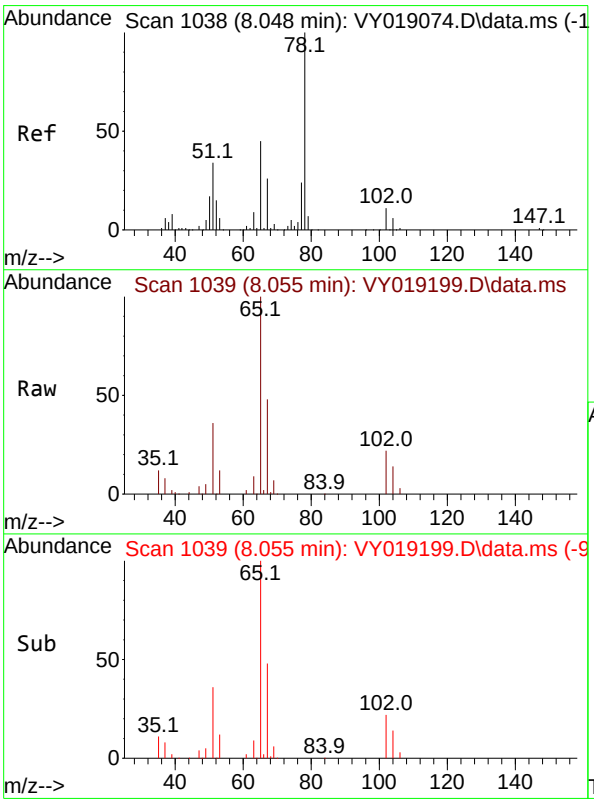
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY019199.D
Acq: 22 Aug 2024 04:57

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924-FD

Tgt Ion:168 Resp: 81637

Ion	Ratio	Lower	Upper
168	100		
99	50.7	39.1	58.7

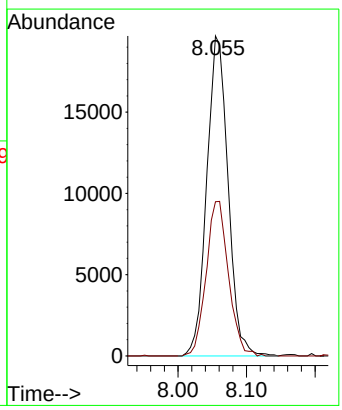


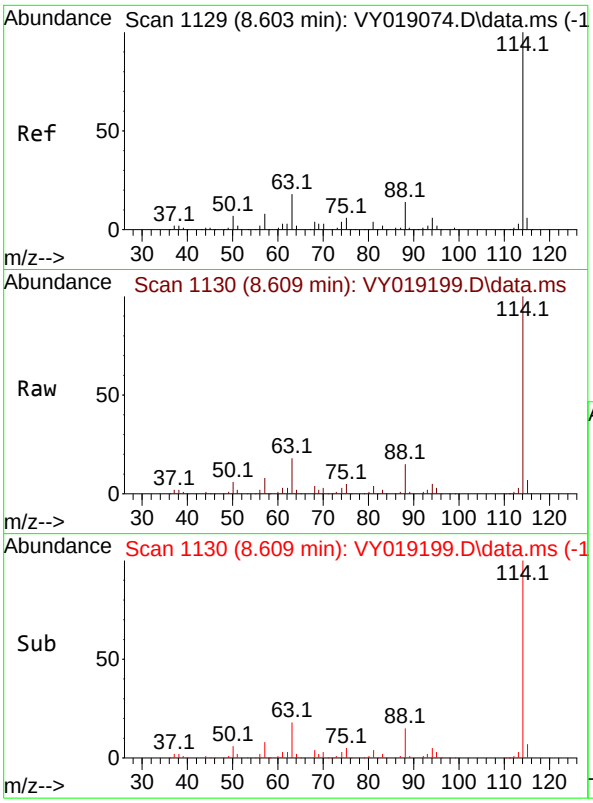


#33
1,2-Dichloroethane-d4
Concen: 51.868 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019199.D
Acq: 22 Aug 2024 04:57

Tgt Ion: 65 Resp: 42446

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	109.6



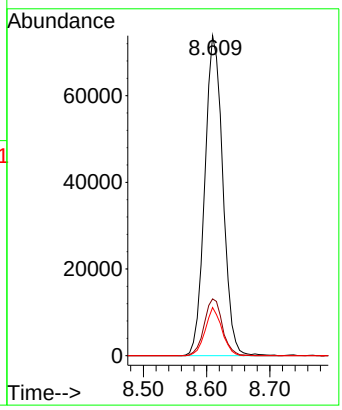


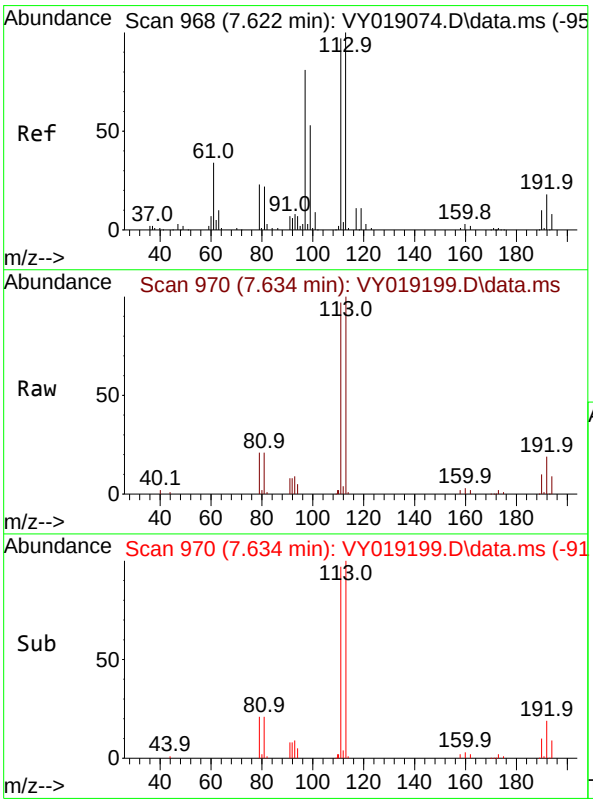
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019199.D
Acq: 22 Aug 2024 04:57

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924-FD

Tgt Ion:114 Resp: 146493

Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	35.0
88	15.0	0.0	27.2

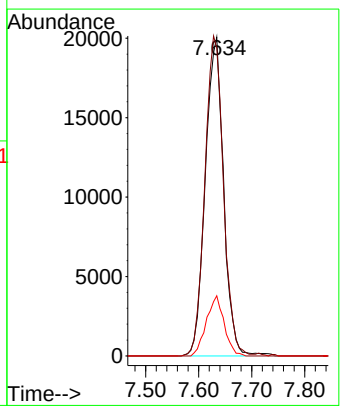


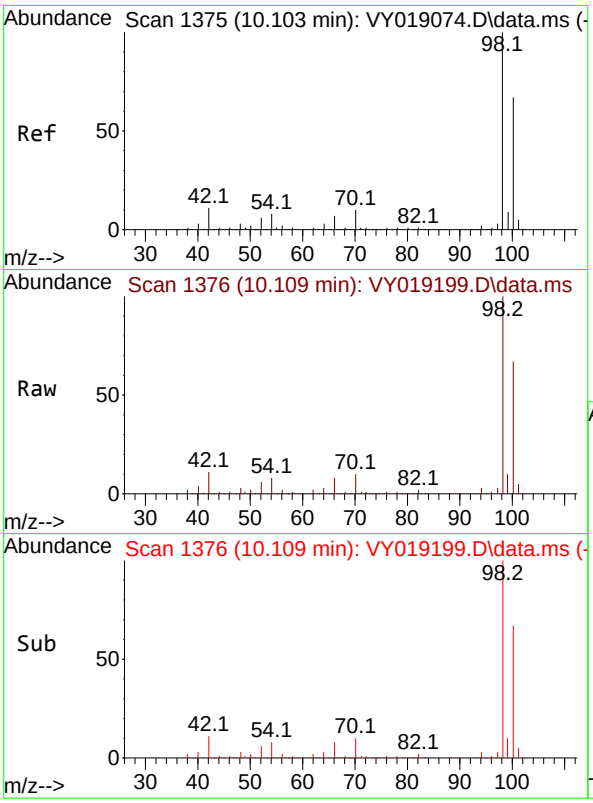


#35
Dibromofluoromethane
Concen: 50.287 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.012 min
Lab File: VY019199.D
Acq: 22 Aug 2024 04:57

Tgt Ion:113 Resp: 48168

Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.2	123.4
192	18.4	15.9	23.9



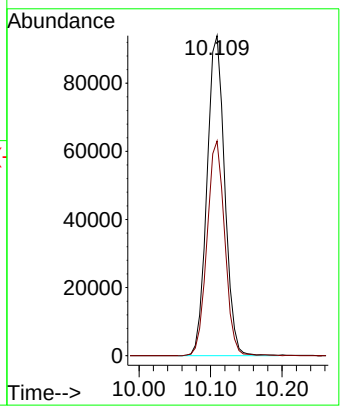


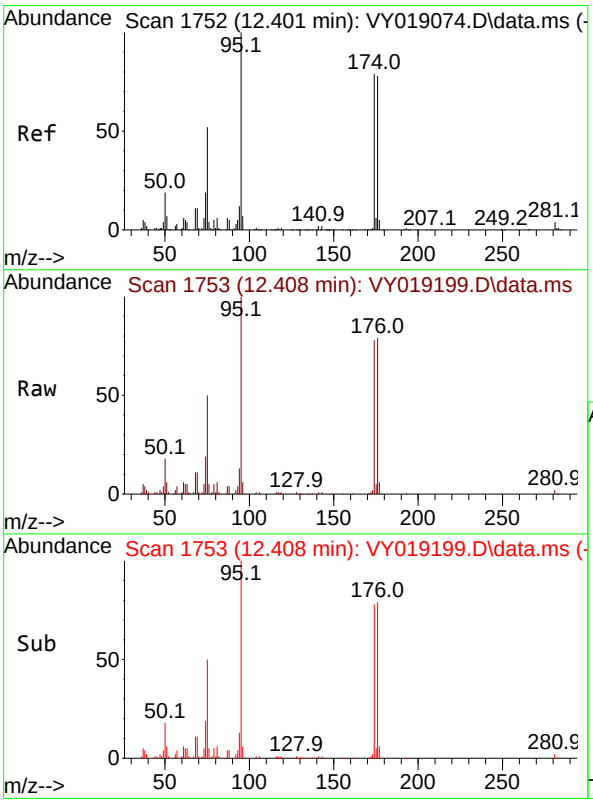
#50
Toluene-d8
Concen: 46.824 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019199.D
Acq: 22 Aug 2024 04:57

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924-FD

Tgt Ion: 98 Resp: 161402

Ion	Ratio	Lower	Upper
98	100		
100	67.0	52.0	78.0

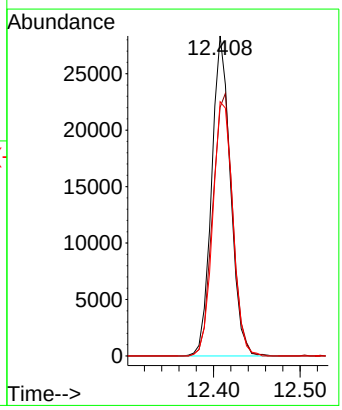


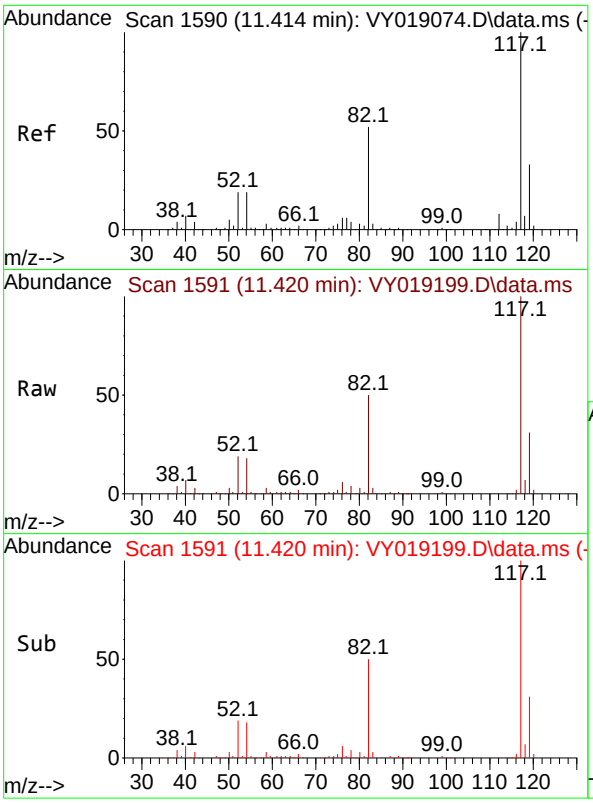


#62
4-Bromofluorobenzene
Concen: 36.484 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019199.D
Acq: 22 Aug 2024 04:57

Tgt Ion: 95 Resp: 42871

Ion	Ratio	Lower	Upper
95	100		
174	87.1	0.0	175.6
176	84.3	0.0	171.4



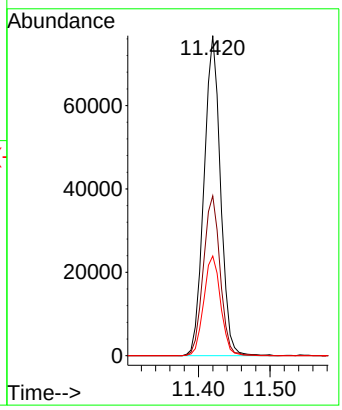


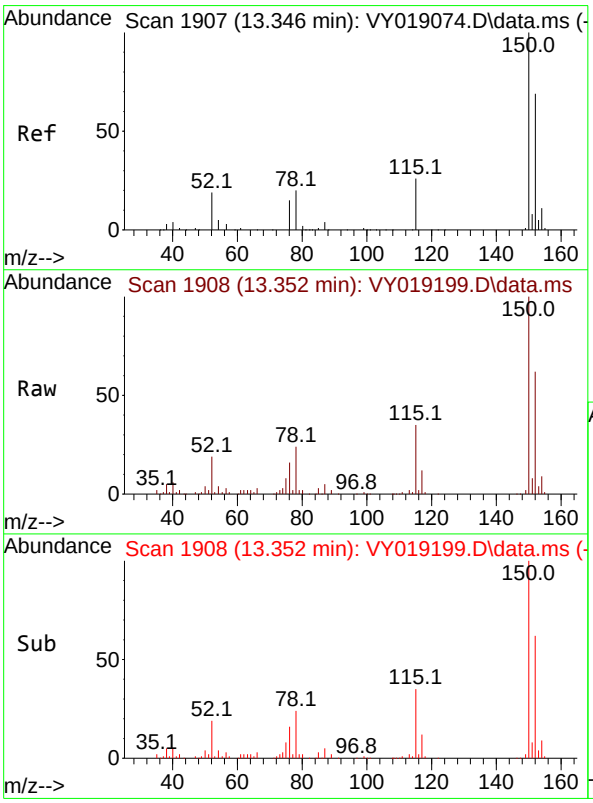
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019199.D
Acq: 22 Aug 2024 04:57

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924-FD

Tgt Ion:117 Resp: 122862

Ion	Ratio	Lower	Upper
117	100		
82	50.0	42.4	63.6
119	31.2	25.9	38.9

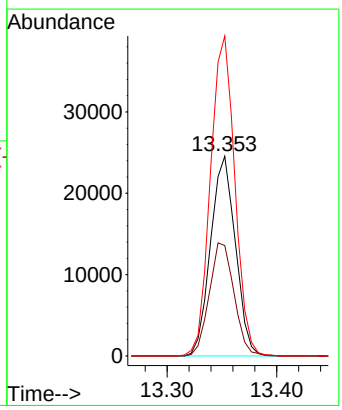




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019199.D
Acq: 22 Aug 2024 04:57

Tgt Ion:152 Resp: 38679

Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.2	84.7
150	156.9	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924-FDRE	SDG No.:	P3671
Lab Sample ID:	P3671-05RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	35
Sample Wt/Vol:	5.27 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019225.D	1		08/22/24 17:09	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	4.50	U	4.50	13.6	ug/Kg
74-87-3	Chloromethane	3.10	U	3.10	13.6	ug/Kg
75-01-4	Vinyl Chloride	2.10	U	2.10	13.6	ug/Kg
74-83-9	Bromomethane	2.80	U	2.80	13.6	ug/Kg
75-00-3	Chloroethane	2.70	U	2.70	13.6	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.90	U	2.90	13.6	ug/Kg
75-35-4	1,1-Dichloroethene	2.10	U	2.10	13.6	ug/Kg
67-64-1	Acetone	16.9	U	16.9	67.8	ug/Kg
75-15-0	Carbon Disulfide	3.50	U	3.50	13.6	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.80	U	1.80	13.6	ug/Kg
75-09-2	Methylene Chloride	9.20	U	9.20	27.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.30	U	2.30	13.6	ug/Kg
75-34-3	1,1-Dichloroethane	1.70	U	1.70	13.6	ug/Kg
110-82-7	Cyclohexane	1.90	U	1.90	13.6	ug/Kg
78-93-3	2-Butanone	15.4	U	15.4	67.8	ug/Kg
56-23-5	Carbon Tetrachloride	2.40	U	2.40	13.6	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.70	U	1.70	13.6	ug/Kg
67-66-3	Chloroform	1.80	U	1.80	13.6	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.10	U	2.10	13.6	ug/Kg
108-87-2	Methylcyclohexane	2.40	U	2.40	13.6	ug/Kg
71-43-2	Benzene	2.00	U	2.00	13.6	ug/Kg
107-06-2	1,2-Dichloroethane	1.70	U	1.70	13.6	ug/Kg
79-01-6	Trichloroethene	2.00	U	2.00	13.6	ug/Kg
75-27-4	Bromodichloromethane	1.50	U	1.50	13.6	ug/Kg
108-88-3	Toluene	1.80	U	1.80	13.6	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.30	U	2.30	13.6	ug/Kg
124-48-1	Dibromochloromethane	1.80	U	1.80	13.6	ug/Kg
127-18-4	Tetrachloroethene	2.40	U	2.40	13.6	ug/Kg
108-90-7	Chlorobenzene	2.00	U	2.00	13.6	ug/Kg
100-41-4	Ethyl Benzene	1.70	U	1.70	13.6	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924-FDRE	SDG No.:	P3671
Lab Sample ID:	P3671-05RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	35
Sample Wt/Vol:	5.27 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019225.D	1		08/22/24 17:09	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	3.70	U	3.70	27.1	ug/Kg
1330-20-7	Total Xylenes	5.60	U	5.60	40.7	ug/Kg
95-47-6	o-Xylene	1.90	U	1.90	13.6	ug/Kg
98-82-8	Isopropylbenzene	1.80	U	1.80	13.6	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.20	U	2.20	13.6	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.60	U	1.60	13.6	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		70 (50) - 130 (163)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		70 (54) - 130 (147)	97%	SPK: 50
2037-26-5	Toluene-d8	45.2		70 (58) - 130 (134)	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	28.6	*	70 (29) - 130 (146)	57%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	91600	7.701			
540-36-3	1,4-Difluorobenzene	155000	8.609			
3114-55-4	Chlorobenzene-d5	111000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	28500	13.346			

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_Y\Data\VY082224\
Data File : VY019225.D
Acq On : 22 Aug 2024 17:09
Operator : SY/MD
Sample : P3671-05RE
Misc : 5.27g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924-FDRE

Quant Time: Aug 23 01:55:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

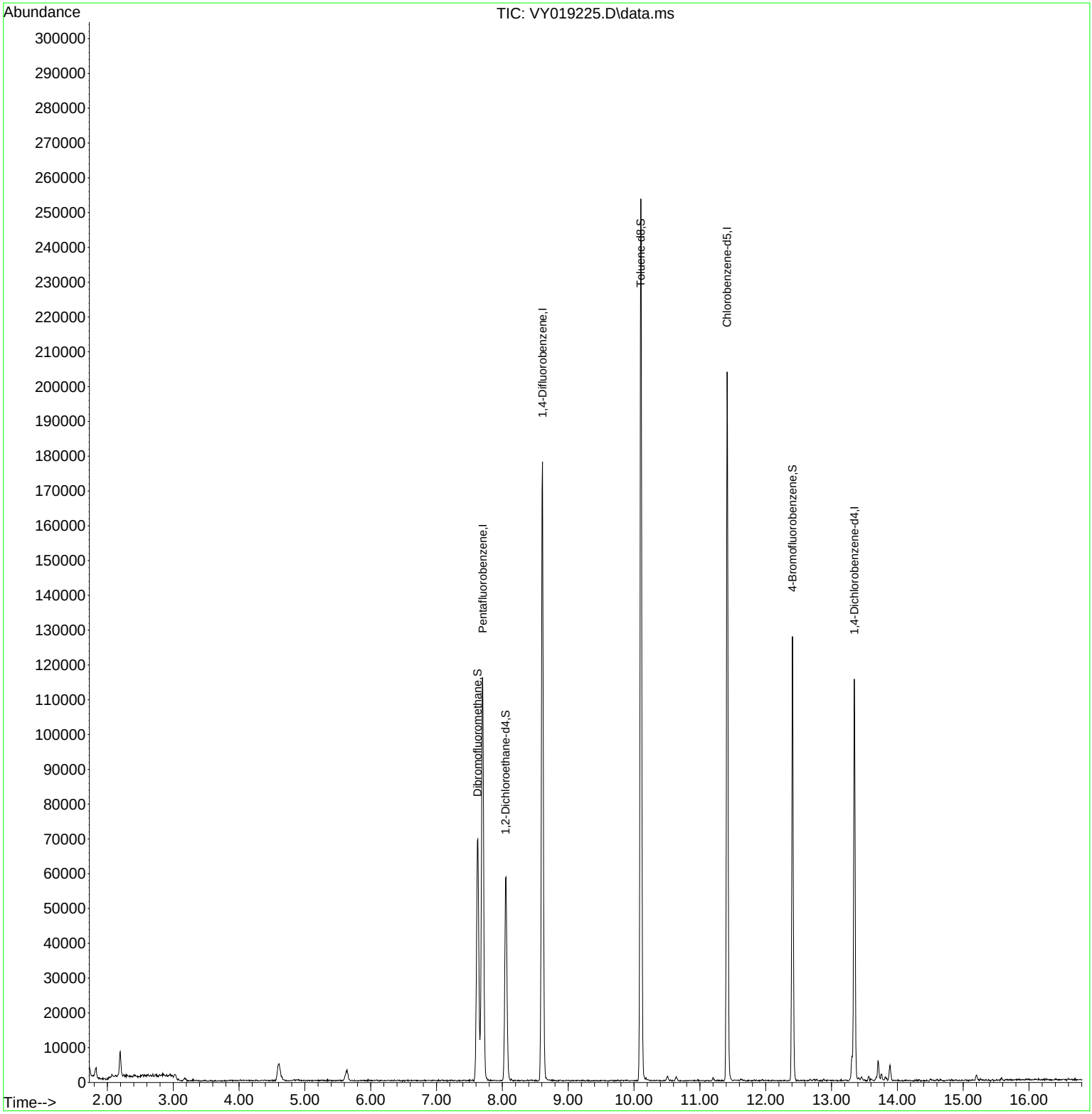
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	91577	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	154668	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	110605	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	28511	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.048	65	49496	53.918	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.840%			
35) Dibromofluoromethane	7.622	113	49146	48.596	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.200%			
50) Toluene-d8	10.103	98	164354	45.160	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 90.320%			
62) 4-Bromofluorobenzene	12.407	95	35470	28.590	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 57.180%			
Target Compounds						Qvalue

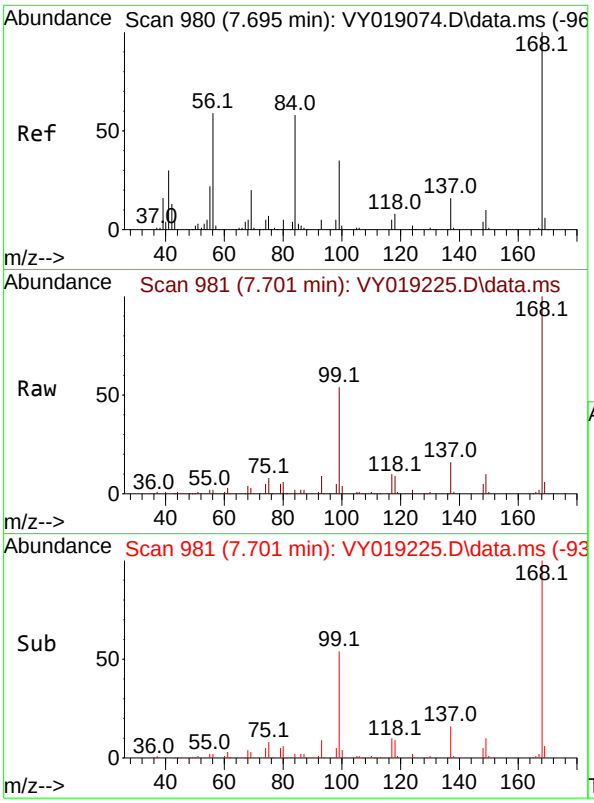
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019225.D
Acq On : 22 Aug 2024 17:09
Operator : SY/MD
Sample : P3671-05RE
Misc : 5.27g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924-FDRE

Quant Time: Aug 23 01:55:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



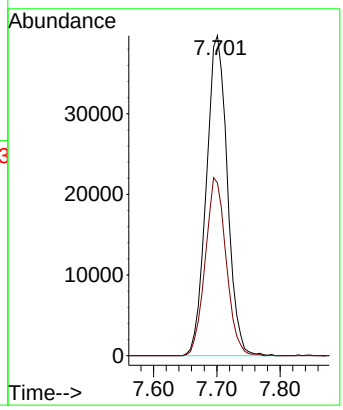


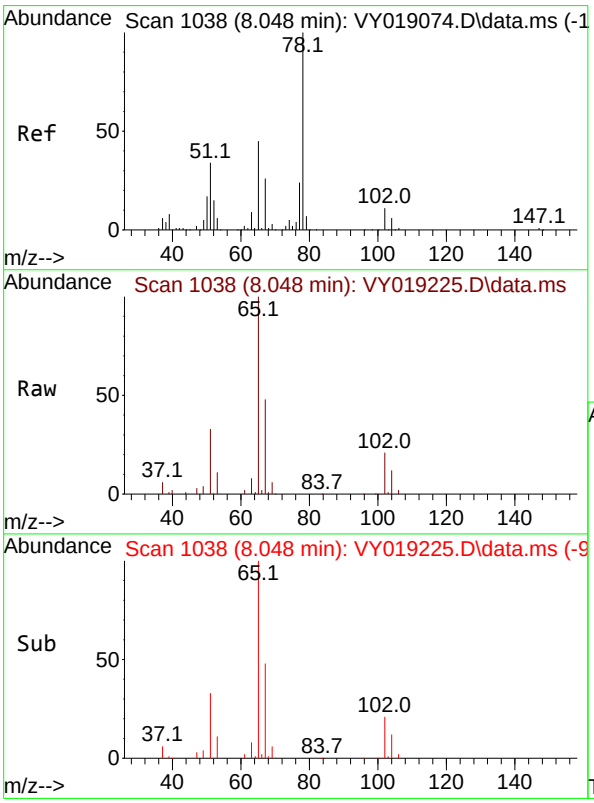
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019225.D
Acq: 22 Aug 2024 17:09

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924-FDRE

Tgt Ion:168 Resp: 91577

Ion	Ratio	Lower	Upper
168	100		
99	54.0	39.1	58.7

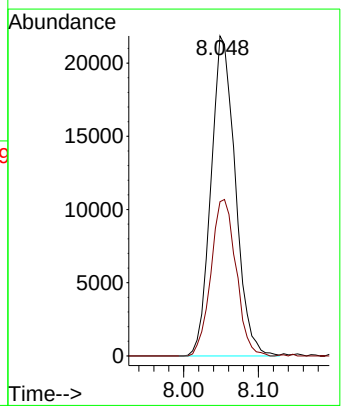


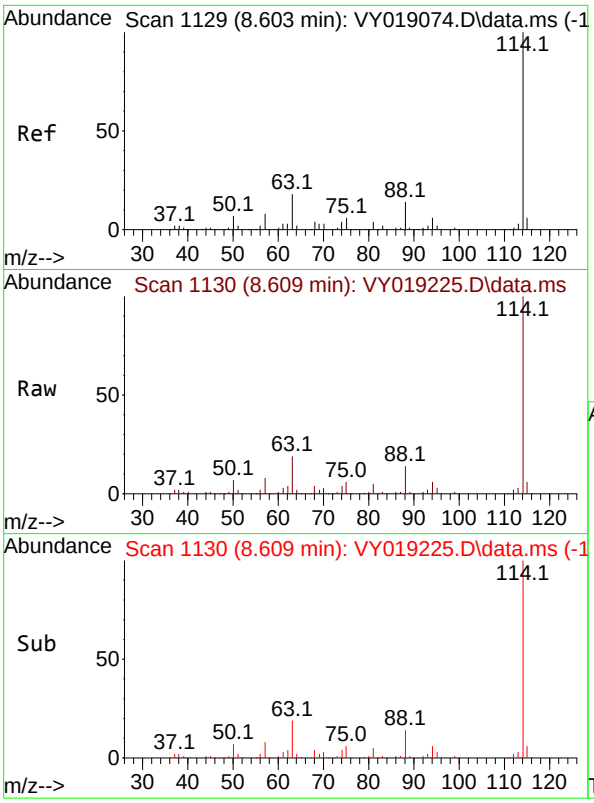


#33
1,2-Dichloroethane-d4
Concen: 53.918 ug/l
RT: 8.048 min Scan# 1038
Delta R.T. 0.000 min
Lab File: VY019225.D
Acq: 22 Aug 2024 17:09

Tgt Ion: 65 Resp: 49496

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	109.6



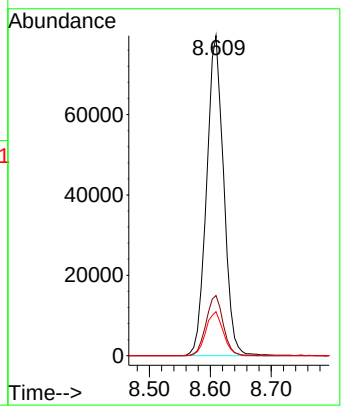


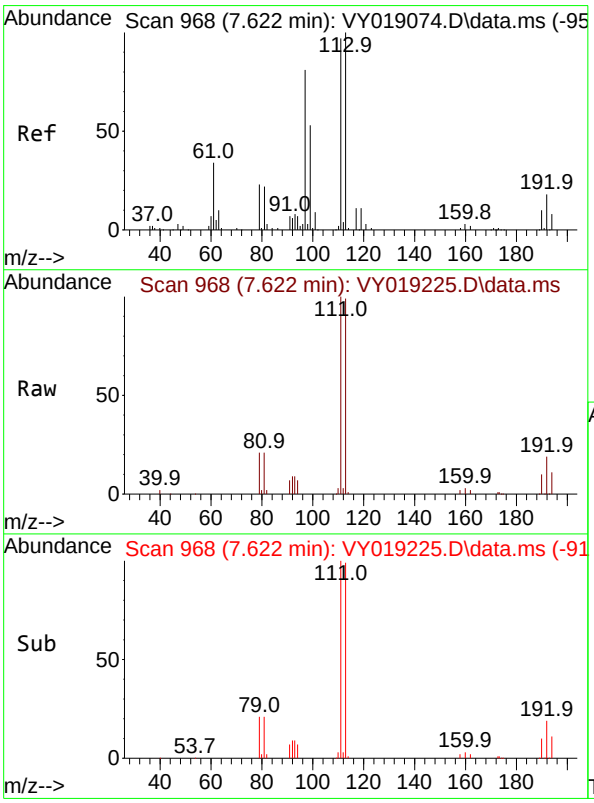
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019225.D
Acq: 22 Aug 2024 17:09

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924-FDRE

Tgt Ion:114 Resp: 154668

Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	35.0
88	13.8	0.0	27.2

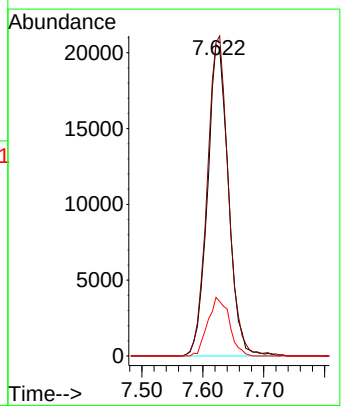


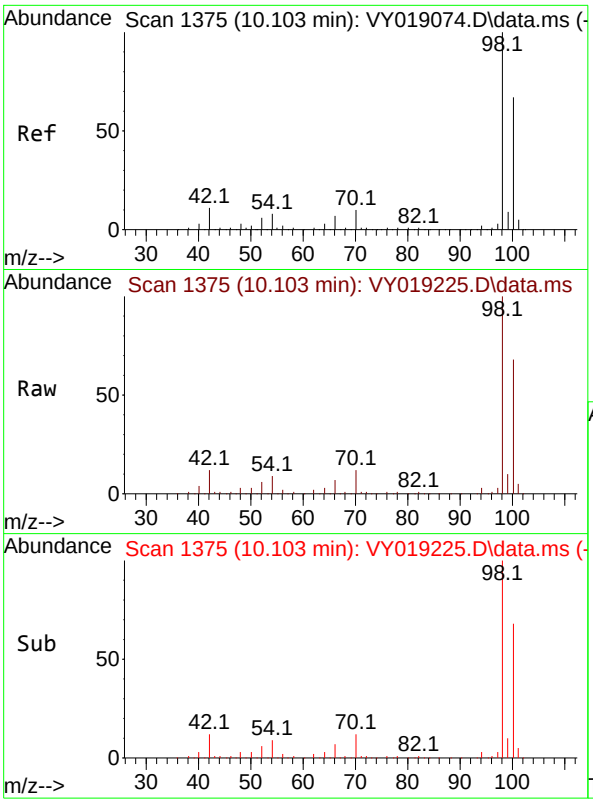


#35
Dibromofluoromethane
Concen: 48.596 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY019225.D
Acq: 22 Aug 2024 17:09

Tgt Ion:113 Resp: 49146

Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.2	123.4
192	19.3	15.9	23.9



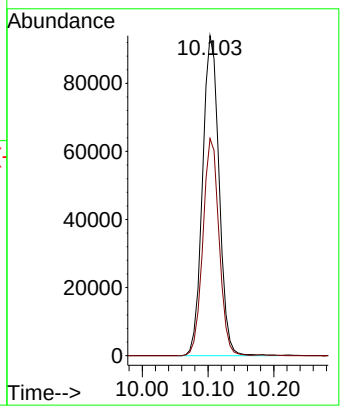


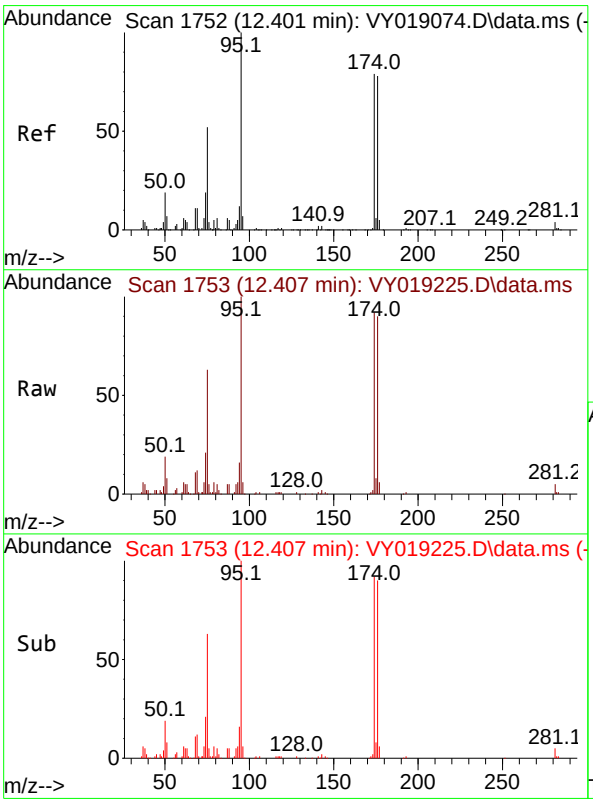
#50
Toluene-d8
Concen: 45.160 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019225.D
Acq: 22 Aug 2024 17:09

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924-FDRE

Tgt Ion: 98 Resp: 164354

Ion	Ratio	Lower	Upper
98	100		
100	66.3	52.0	78.0

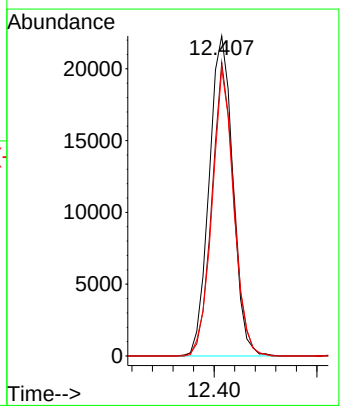


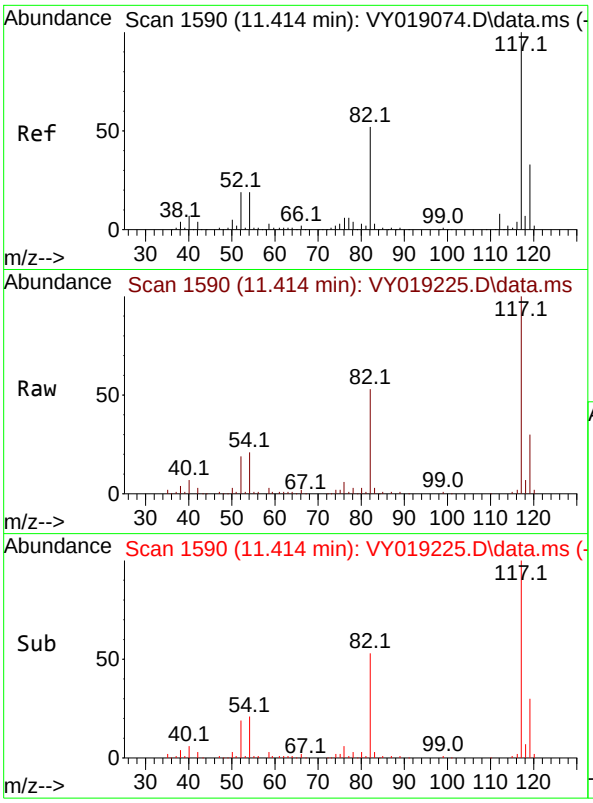


#62
4-Bromofluorobenzene
Concen: 28.590 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019225.D
Acq: 22 Aug 2024 17:09

Tgt Ion: 95 Resp: 35470

Ion	Ratio	Lower	Upper
95	100		
174	85.3	0.0	175.6
176	82.4	0.0	171.4



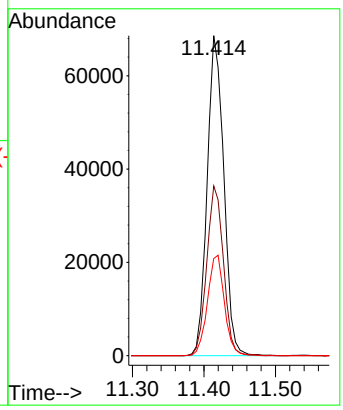


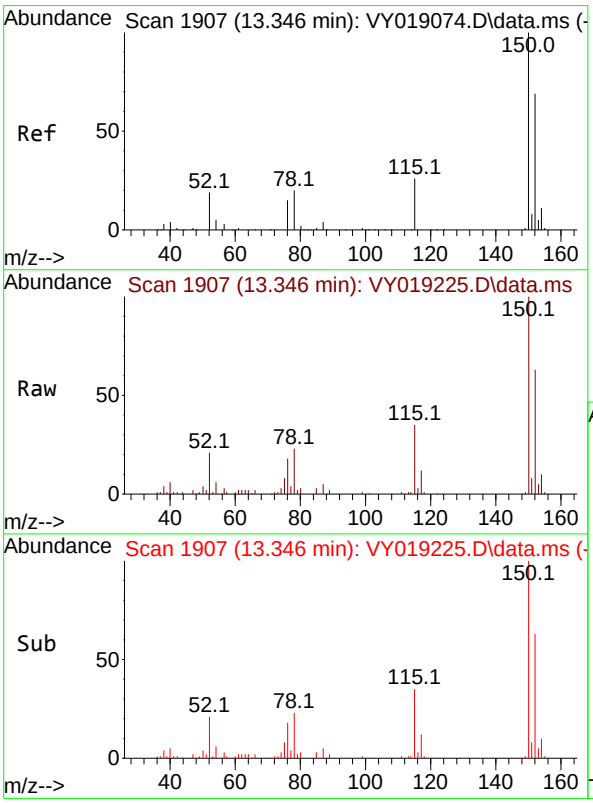
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019225.D
Acq: 22 Aug 2024 17:09

Instrument :
MSVOA_Y
ClientSampleId :
S-911-K1-SO-0-0.5-081924-FDRE

Tgt Ion:117 Resp: 110605

Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.4	63.6
119	30.4	25.9	38.9

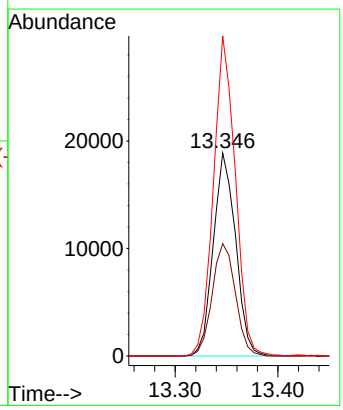




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019225.D
Acq: 22 Aug 2024 17:09

Tgt Ion:152 Resp: 28511

Ion	Ratio	Lower	Upper
152	100		
115	57.5	28.2	84.7
150	154.7	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78.2
Sample Wt/Vol:	7.89 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019200.D	1		08/22/24 05:21	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	4.10	ug/Kg
74-87-3	Chloromethane	0.94	U	0.94	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	4.10	ug/Kg
74-83-9	Bromomethane	0.83	U	0.83	4.10	ug/Kg
75-00-3	Chloroethane	0.82	U	0.82	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.63	U	0.63	4.10	ug/Kg
67-64-1	Acetone	5.10	U	5.10	20.3	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.54	U	0.54	4.10	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	8.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.51	U	0.51	4.10	ug/Kg
110-82-7	Cyclohexane	0.56	U	0.56	4.10	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	20.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.71	U	0.71	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.49	U	0.49	4.10	ug/Kg
67-66-3	Chloroform	0.54	U	0.54	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.71	U	0.71	4.10	ug/Kg
71-43-2	Benzene	0.58	U	0.58	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.49	U	0.49	4.10	ug/Kg
79-01-6	Trichloroethene	1.20	J	0.61	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.45	U	0.45	4.10	ug/Kg
108-88-3	Toluene	0.54	U	0.54	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	4.10	ug/Kg
124-48-1	Dibromochloromethane	0.53	U	0.53	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.72	U	0.72	4.10	ug/Kg
108-90-7	Chlorobenzene	0.60	U	0.60	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.50	U	0.50	4.10	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78.2
Sample Wt/Vol:	7.89 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019200.D	1		08/22/24 05:21	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.10	ug/Kg
1330-20-7	Total Xylenes	1.67	U	1.67	12.2	ug/Kg
95-47-6	o-Xylene	0.57	U	0.57	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.54	U	0.54	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.65	U	0.65	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.48	U	0.48	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.0		70 (50) - 130 (163)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		70 (29) - 130 (146)	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	84200	7.701			
540-36-3	1,4-Difluorobenzene	155000	8.61			
3114-55-4	Chlorobenzene-d5	140000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	50700	13.353			

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_Y\Data\VY082124\
Data File : VY019200.D
Acq On : 22 Aug 2024 05:21
Operator : SY/MD
Sample : P3671-06
Misc : 7.89g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924

Quant Time: Aug 22 06:30:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

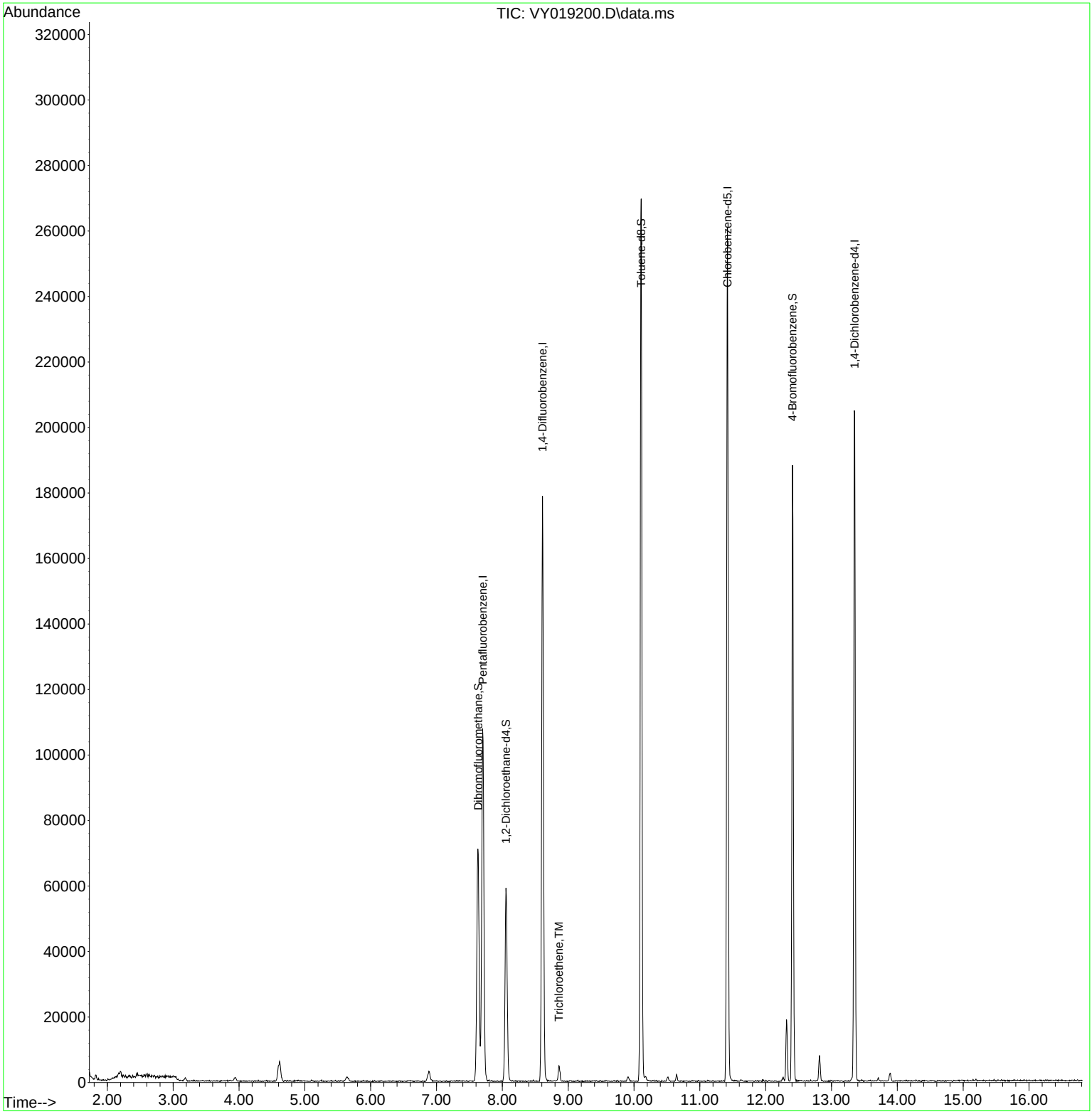
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	84229	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	154608	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	140381	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	50718	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	46427	54.987	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.980%			
35) Dibromofluoromethane	7.634	113	50298	49.755	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.500%			
50) Toluene-d8	10.109	98	175245	48.171	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.340%			
62) 4-Bromofluorobenzene	12.408	95	54604	44.029	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 88.060%			
Target Compounds						Qvalue
44) Trichloroethene	8.859	130	1708	1.438	ug/l	86

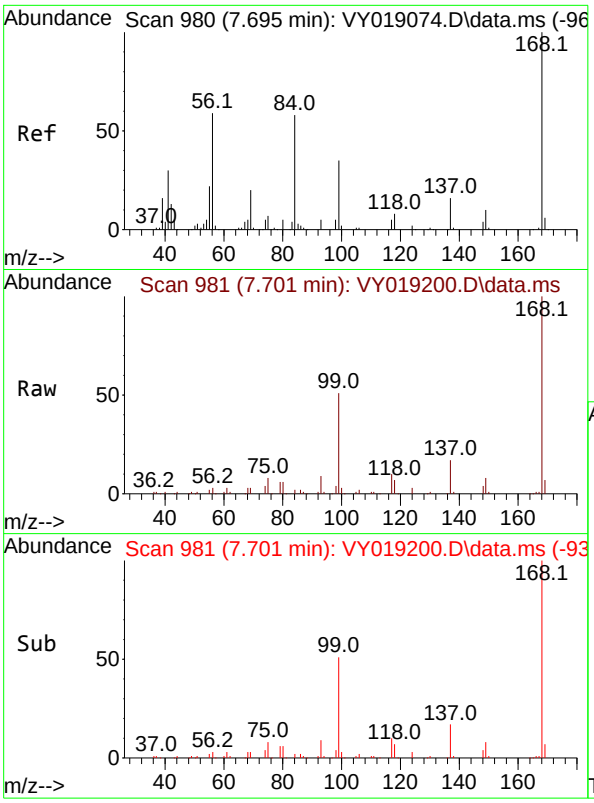
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019200.D
Acq On : 22 Aug 2024 05:21
Operator : SY/MD
Sample : P3671-06
Misc : 7.89g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924

Quant Time: Aug 22 06:30:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



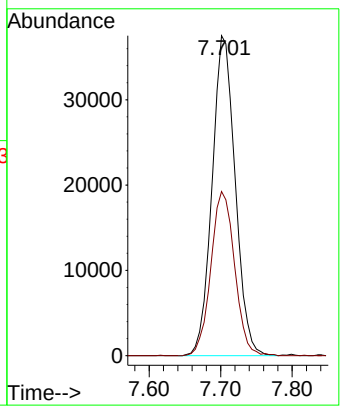


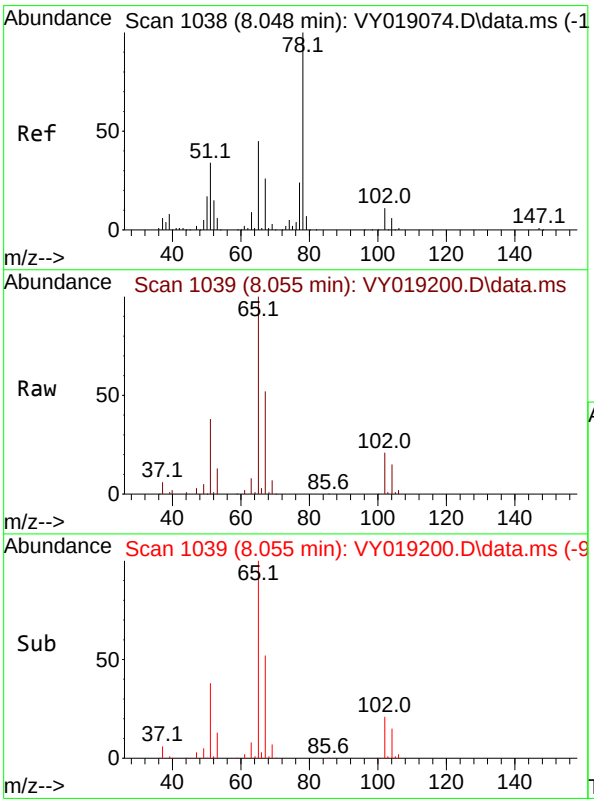
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019200.D
Acq: 22 Aug 2024 05:21

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924

Tgt Ion:168 Resp: 84229

Ion	Ratio	Lower	Upper
168	100		
99	51.3	39.1	58.7

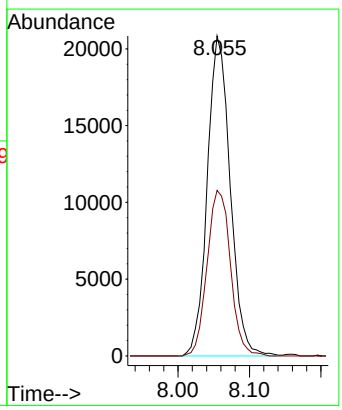


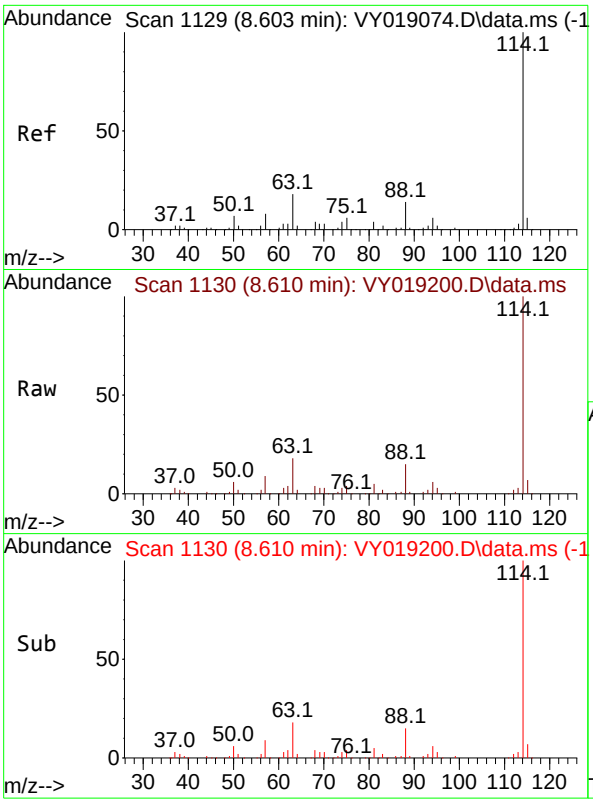


#33
1,2-Dichloroethane-d4
Concen: 54.987 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019200.D
Acq: 22 Aug 2024 05:21

Tgt Ion: 65 Resp: 46427

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	109.6



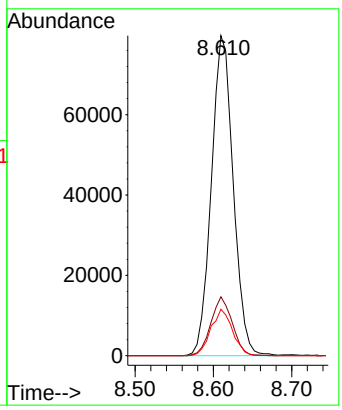


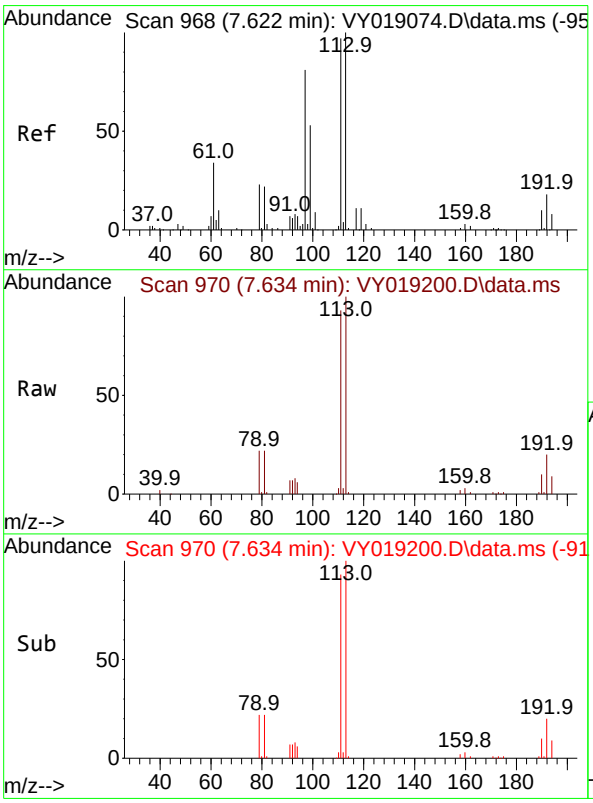
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019200.D
Acq: 22 Aug 2024 05:21

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924

Tgt Ion:114 Resp: 154608

Ion	Ratio	Lower	Upper
114	100		
63	18.4	0.0	35.0
88	14.5	0.0	27.2

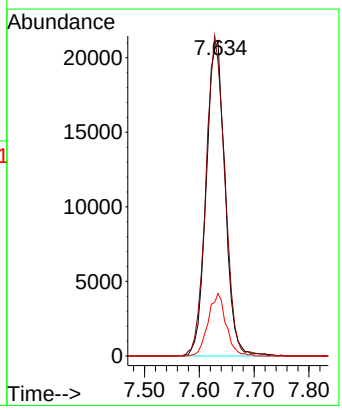


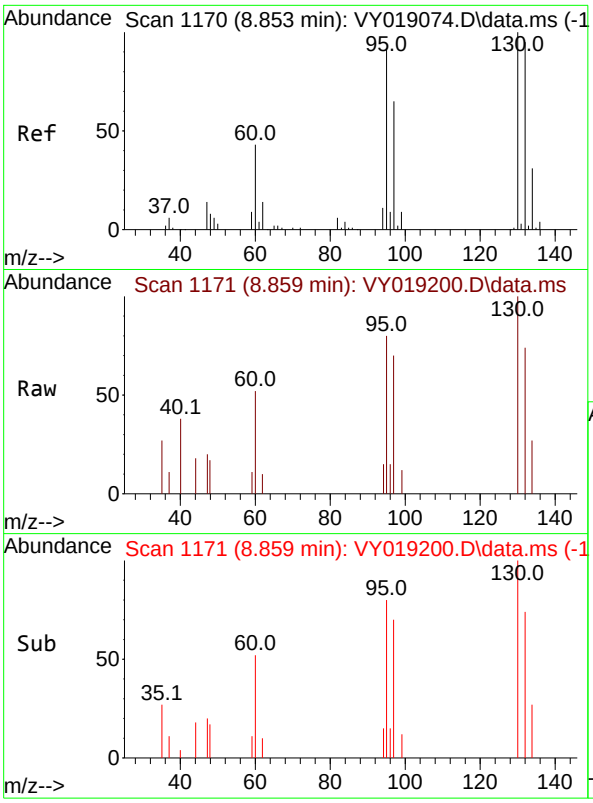


#35
Dibromofluoromethane
Concen: 49.755 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.012 min
Lab File: VY019200.D
Acq: 22 Aug 2024 05:21

Tgt Ion:113 Resp: 50298

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.2	123.4
192	18.9	15.9	23.9



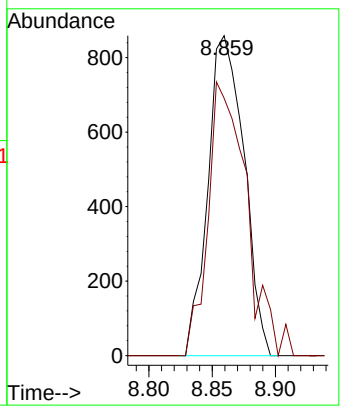


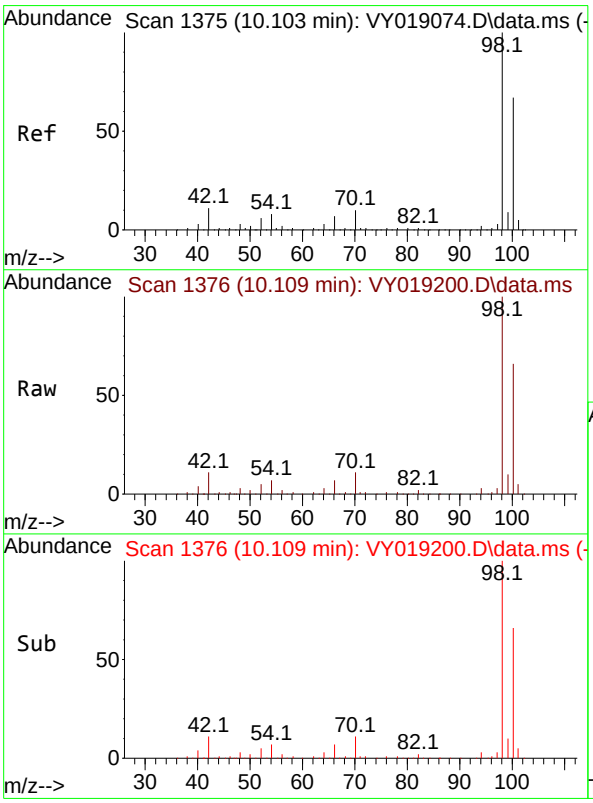
#44
Trichloroethene
Concen: 1.438 ug/l
RT: 8.859 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019200.D
Acq: 22 Aug 2024 05:21

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924

Tgt Ion:130 Resp: 1708

Ion	Ratio	Lower	Upper
130	100		
95	80.4	0.0	188.0

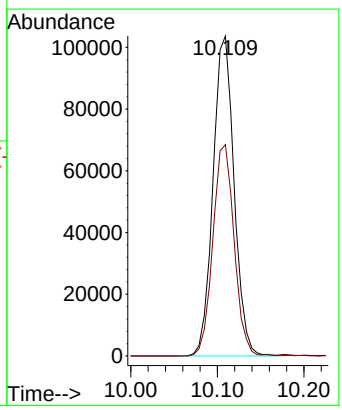


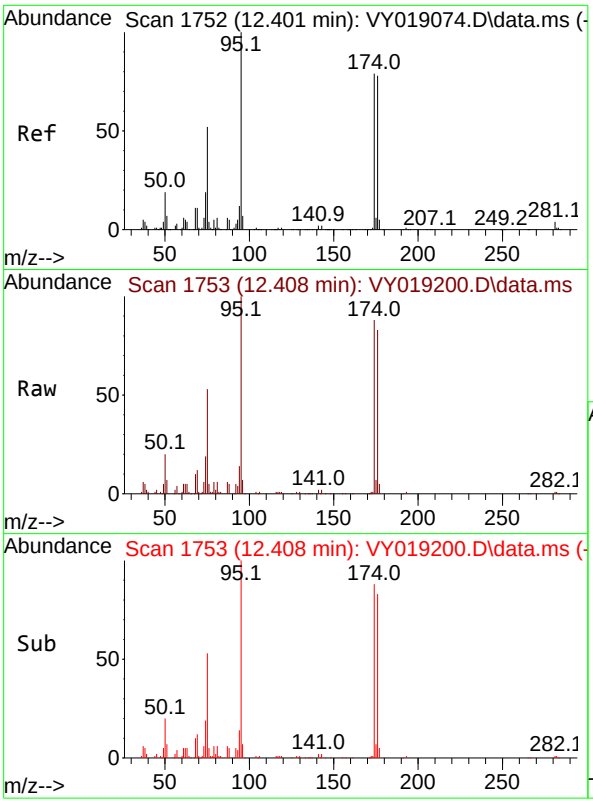


#50
Toluene-d8
Concen: 48.171 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY019200.D
Acq: 22 Aug 2024 05:21

Tgt Ion: 98 Resp: 175245

Ion	Ratio	Lower	Upper
98	100		
100	66.7	52.0	78.0



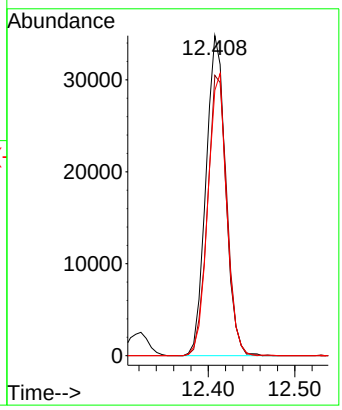


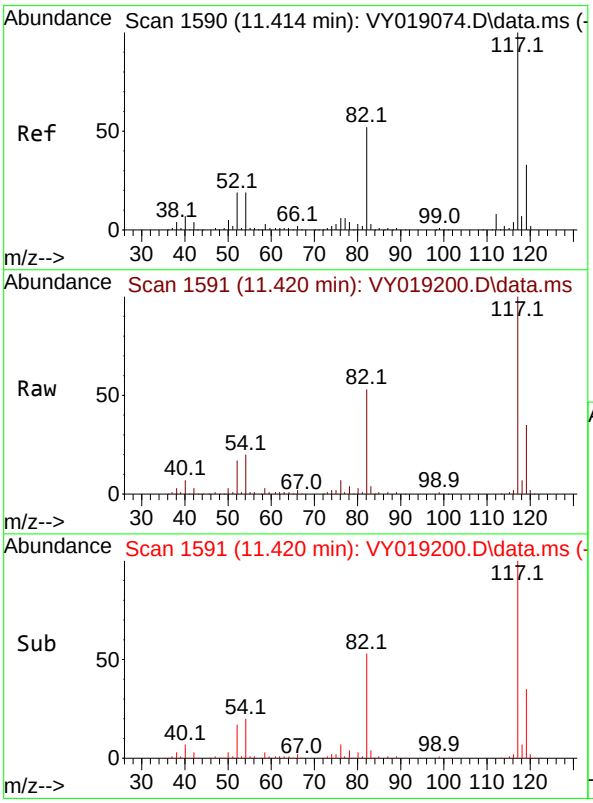
#62
4-Bromofluorobenzene
Concen: 44.029 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019200.D
Acq: 22 Aug 2024 05:21

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924

Tgt Ion: 95 Resp: 54604

Ion	Ratio	Lower	Upper
95	100		
174	87.1	0.0	175.6
176	84.6	0.0	171.4

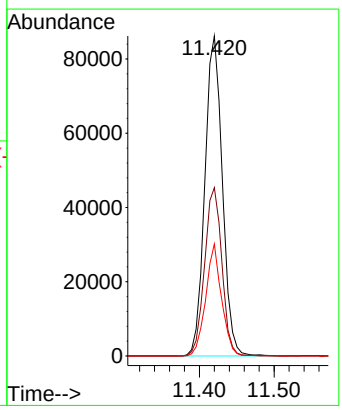


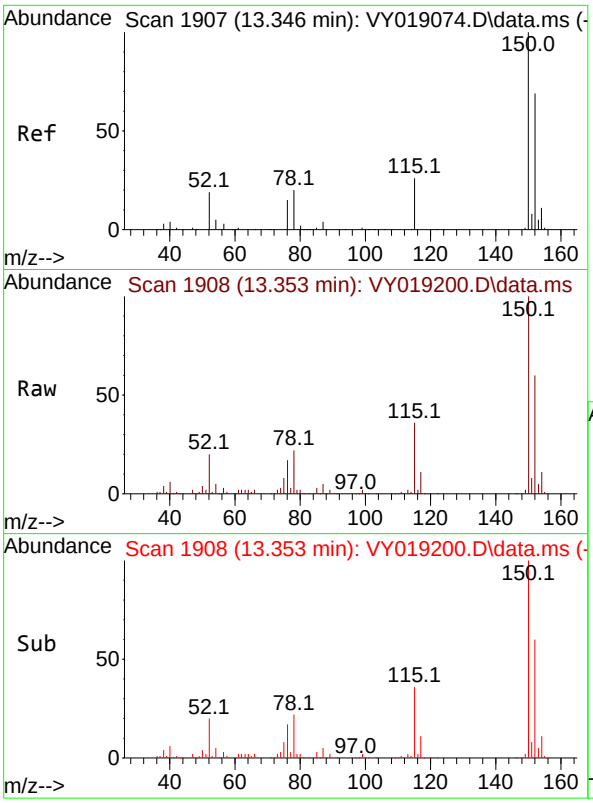


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY019200.D
Acq: 22 Aug 2024 05:21

Tgt Ion:117 Resp: 140381

Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.4	63.6
119	35.0	25.9	38.9



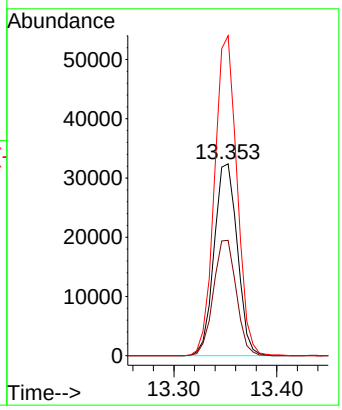


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019200.D
Acq: 22 Aug 2024 05:21

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924

Tgt Ion:152 Resp: 50718

Ion	Ratio	Lower	Upper
152	100		
115	59.5	28.2	84.7
150	160.9	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924-FD	SDG No.:	P3671
Lab Sample ID:	P3671-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	76.6
Sample Wt/Vol:	7.03 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019226.D	1		08/22/24 17:33	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.50	U	1.50	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.60	ug/Kg
74-83-9	Bromomethane	0.96	U	0.96	4.60	ug/Kg
75-00-3	Chloroethane	0.94	U	0.94	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.99	U	0.99	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.72	U	0.72	4.60	ug/Kg
67-64-1	Acetone	20.6	J	5.80	23.2	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.62	U	0.62	4.60	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.78	U	0.78	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.58	U	0.58	4.60	ug/Kg
110-82-7	Cyclohexane	0.64	U	0.64	4.60	ug/Kg
78-93-3	2-Butanone	5.30	U	5.30	23.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.81	U	0.81	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.10	J	0.57	4.60	ug/Kg
67-66-3	Chloroform	0.62	U	0.62	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.72	U	0.72	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.81	U	0.81	4.60	ug/Kg
71-43-2	Benzene	0.67	U	0.67	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.57	U	0.57	4.60	ug/Kg
79-01-6	Trichloroethene	1.10	J	0.70	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.52	U	0.52	4.60	ug/Kg
108-88-3	Toluene	0.62	U	0.62	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.78	U	0.78	4.60	ug/Kg
124-48-1	Dibromochloromethane	0.60	U	0.60	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.83	U	0.83	4.60	ug/Kg
108-90-7	Chlorobenzene	0.69	U	0.69	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.60	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924-FD	SDG No.:	P3671
Lab Sample ID:	P3671-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	76.6
Sample Wt/Vol:	7.03 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019226.D	1		08/22/24 17:33	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.30	ug/Kg
1330-20-7	Total Xylenes	1.95	U	1.95	13.9	ug/Kg
95-47-6	o-Xylene	0.65	U	0.65	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.62	U	0.62	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.74	U	0.74	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.55	U	0.55	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.0		70 (50) - 130 (163)	116%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		70 (29) - 130 (146)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	93900	7.701			
540-36-3	1,4-Difluorobenzene	167000	8.61			
3114-55-4	Chlorobenzene-d5	153000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	46700	13.347			

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_Y\Data\VY082224\
Data File : VY019226.D
Acq On : 22 Aug 2024 17:33
Operator : SY/MD
Sample : P3671-07
Misc : 7.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD

Quant Time: Aug 23 01:55:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

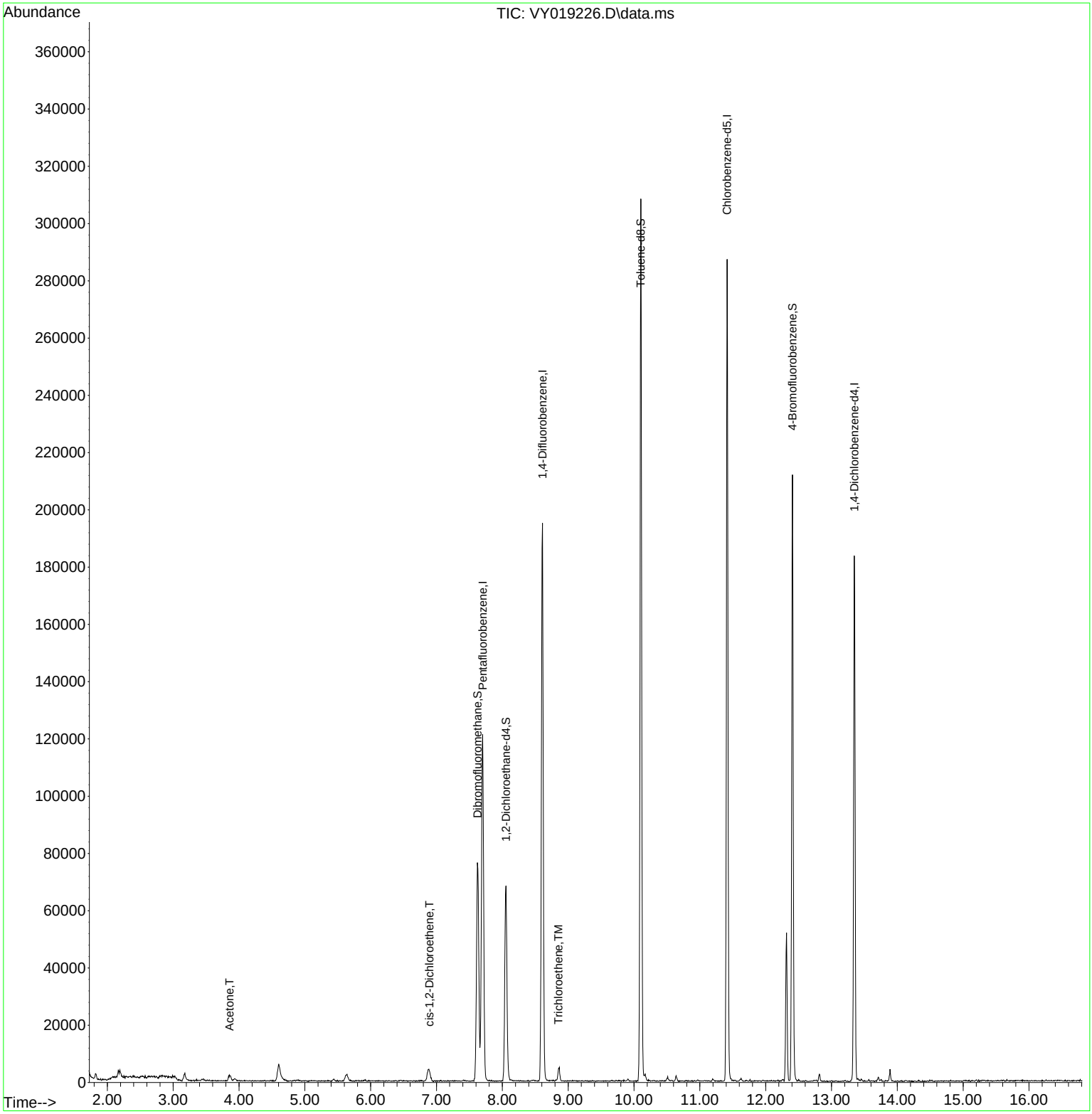
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	93888	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	167175	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	153261	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	46673	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	54627	58.043	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 116.080%			
35) Dibromofluoromethane	7.622	113	54916	50.239	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.480%			
50) Toluene-d8	10.103	98	189372	48.142	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.280%			
62) 4-Bromofluorobenzene	12.408	95	63020	46.996	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 94.000%			
Target Compounds						Qvalue
16) Acetone	3.854	43	3865	22.144	ug/l #	78
27) cis-1,2-Dichloroethene	6.890	96	2790	2.266	ug/l	92
44) Trichloroethene	8.853	130	1544	1.202	ug/l	88

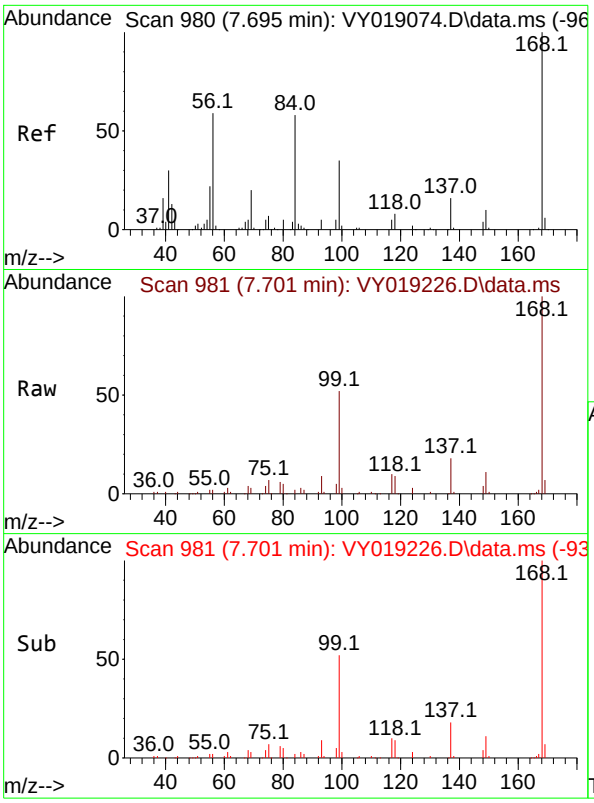
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019226.D
Acq On : 22 Aug 2024 17:33
Operator : SY/MD
Sample : P3671-07
Misc : 7.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD

Quant Time: Aug 23 01:55:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



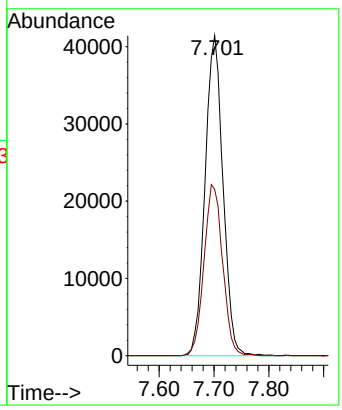


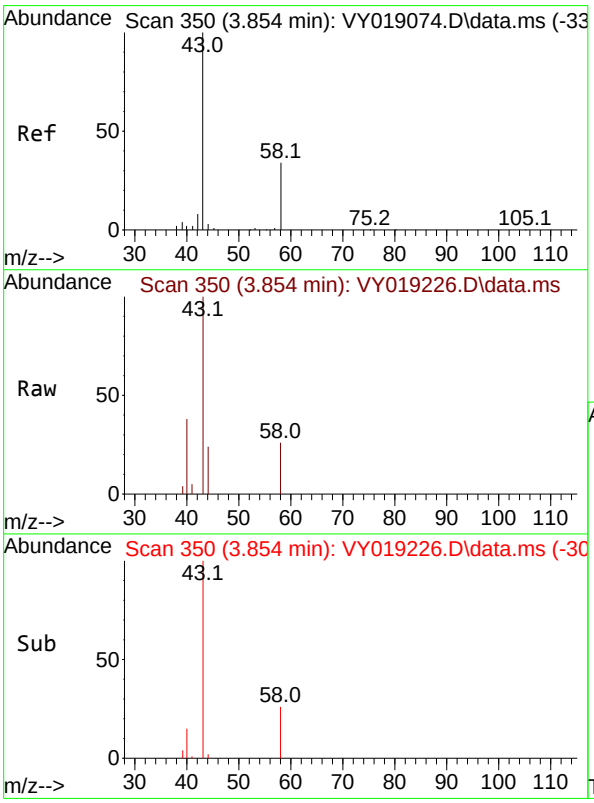
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019226.D
Acq: 22 Aug 2024 17:33

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD

Tgt Ion:168 Resp: 93888

Ion	Ratio	Lower	Upper
168	100		
99	52.0	39.1	58.7

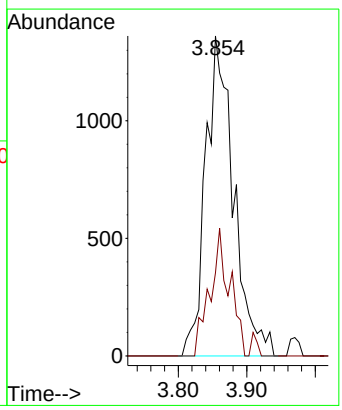


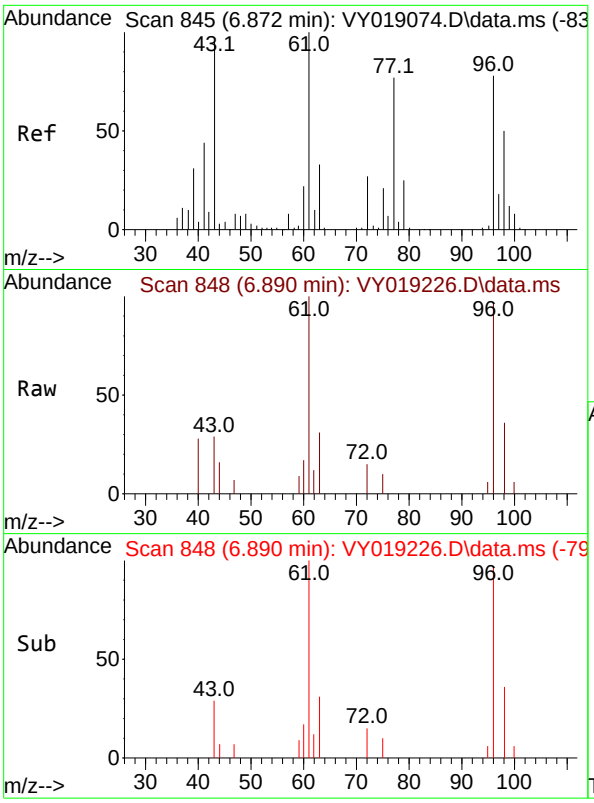


#16
Acetone
Concen: 22.144 ug/l
RT: 3.854 min Scan# 350
Delta R.T. 0.000 min
Lab File: VY019226.D
Acq: 22 Aug 2024 17:33

Tgt Ion: 43 Resp: 3865

Ion	Ratio	Lower	Upper
43	100		
58	26.0	31.7	47.5#



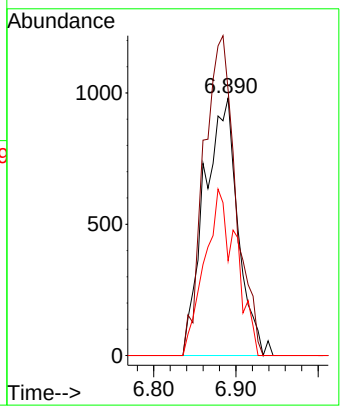


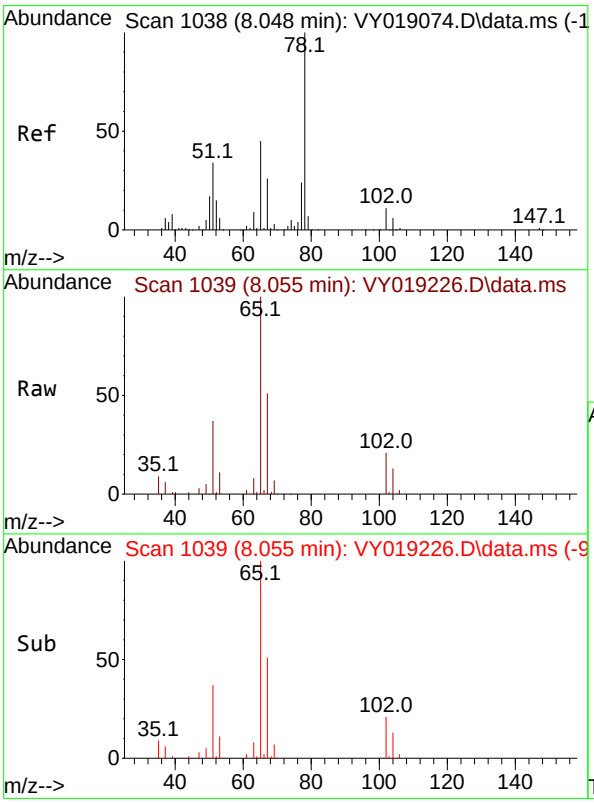
#27
cis-1,2-Dichloroethene
Concen: 2.266 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.019 min
Lab File: VY019226.D
Acq: 22 Aug 2024 17:33

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD

Tgt Ion: 96 Resp: 2790

Ion	Ratio	Lower	Upper
96	100		
61	117.6	0.0	256.2
98	61.2	0.0	130.0

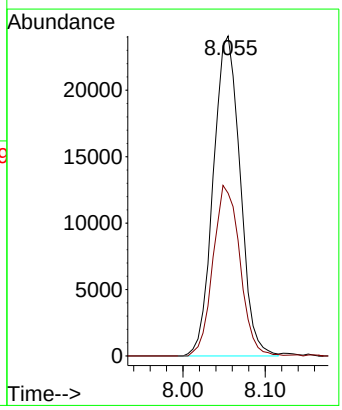


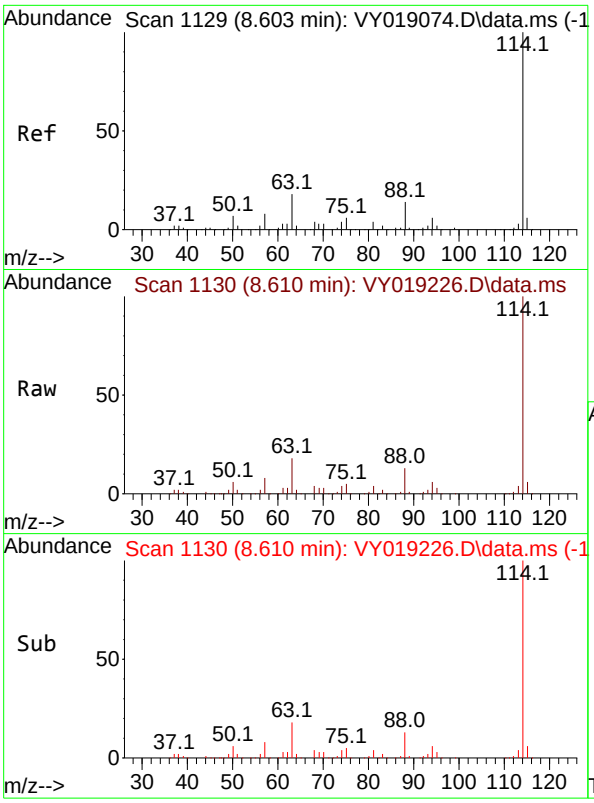


#33
1,2-Dichloroethane-d4
Concen: 58.043 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019226.D
Acq: 22 Aug 2024 17:33

Tgt Ion: 65 Resp: 54627

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	109.6



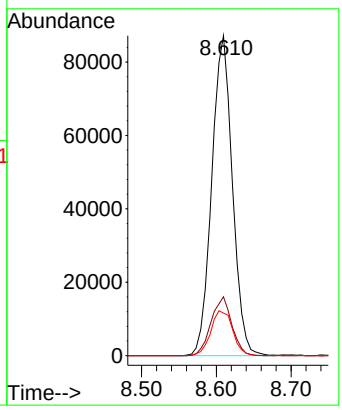


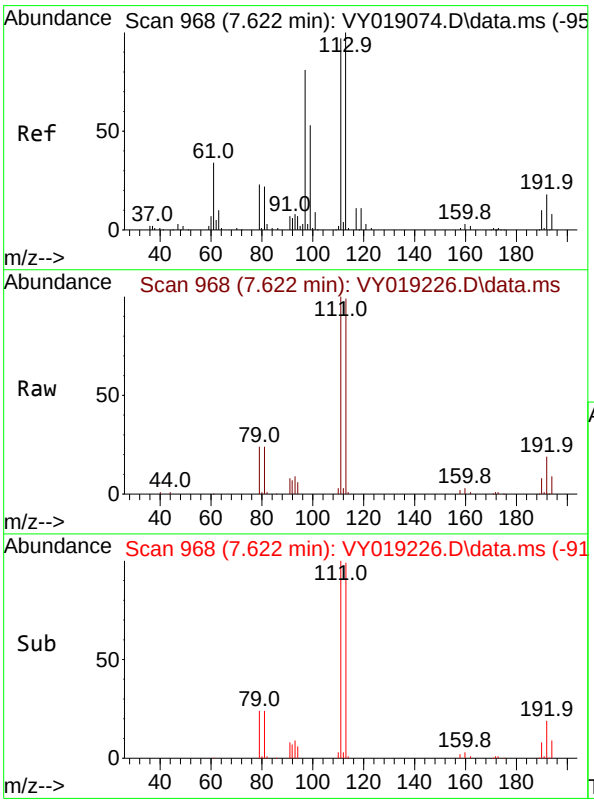
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019226.D
Acq: 22 Aug 2024 17:33

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD

Tgt Ion:114 Resp: 167175

Ion	Ratio	Lower	Upper
114	100		
63	18.4	0.0	35.0
88	13.3	0.0	27.2

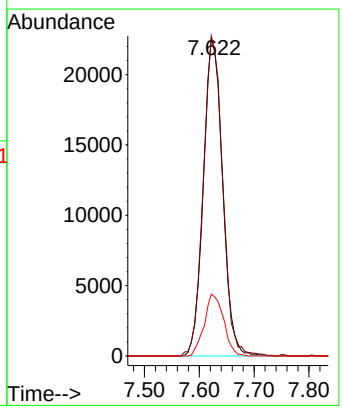


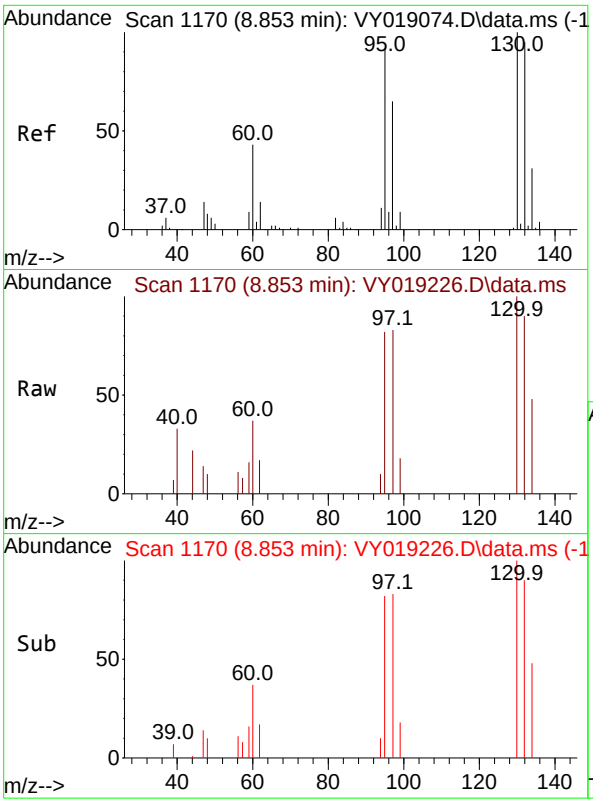


#35
Dibromofluoromethane
Concen: 50.239 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY019226.D
Acq: 22 Aug 2024 17:33

Tgt Ion:113 Resp: 54916

Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.2	123.4
192	19.6	15.9	23.9



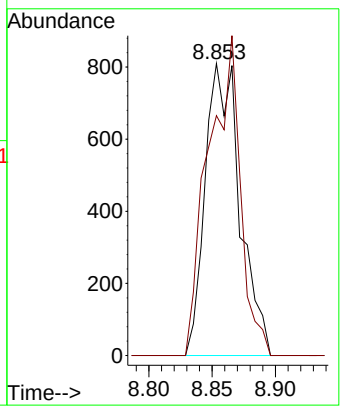


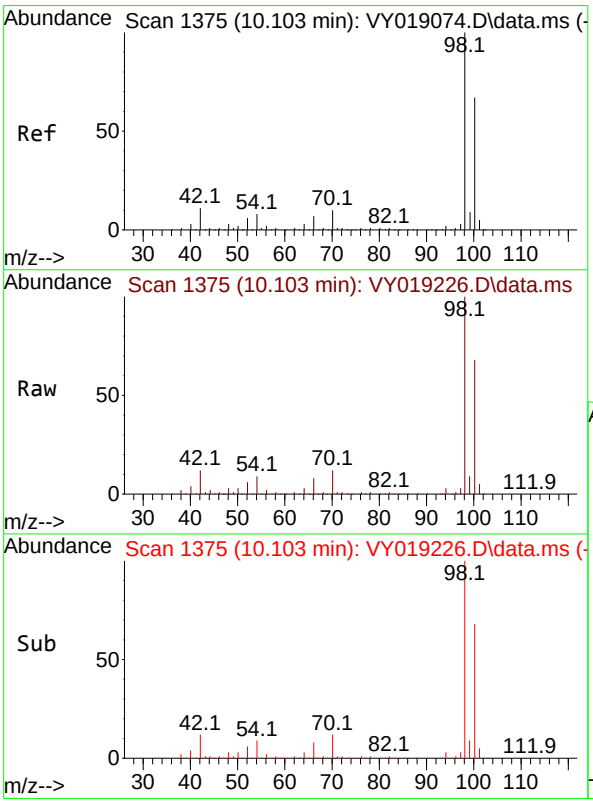
#44
Trichloroethene
Concen: 1.202 ug/l
RT: 8.853 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019226.D
Acq: 22 Aug 2024 17:33

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD

Tgt Ion:130 Resp: 1544

Ion	Ratio	Lower	Upper
130	100		
95	82.1	0.0	188.0

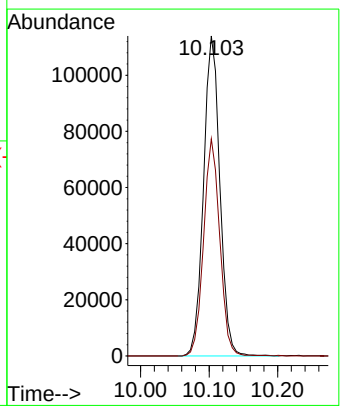


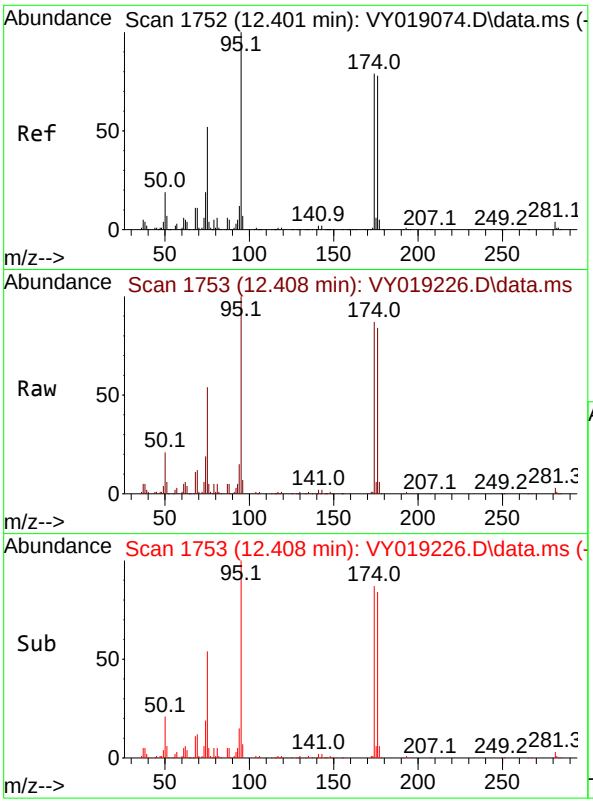


#50
Toluene-d8
Concen: 48.142 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY019226.D
Acq: 22 Aug 2024 17:33

Tgt Ion: 98 Resp: 189372

Ion	Ratio	Lower	Upper
98	100		
100	67.1	52.0	78.0



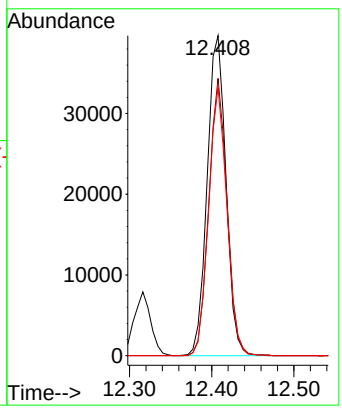


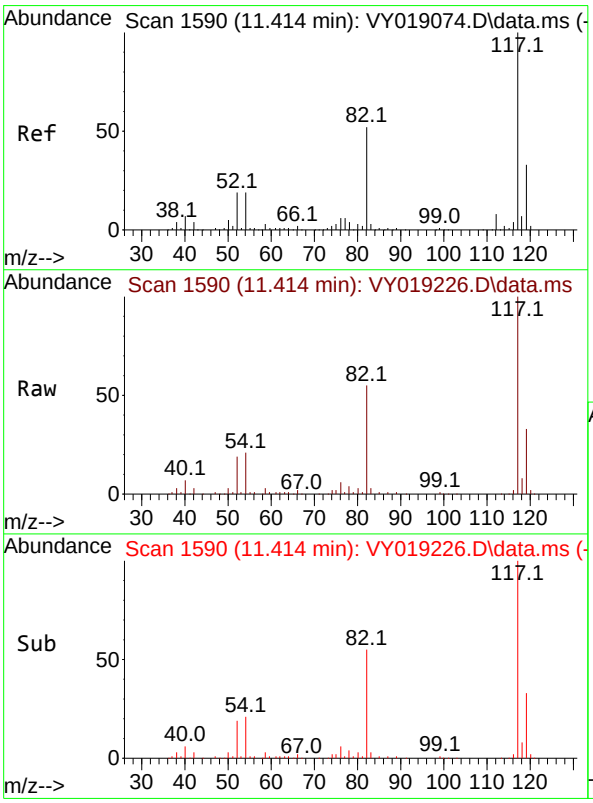
#62
4-Bromofluorobenzene
Concen: 46.996 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019226.D
Acq: 22 Aug 2024 17:33

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD

Tgt Ion: 95 Resp: 63020

Ion	Ratio	Lower	Upper
95	100		
174	84.0	0.0	175.6
176	81.4	0.0	171.4

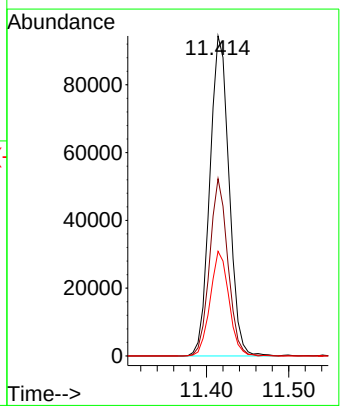


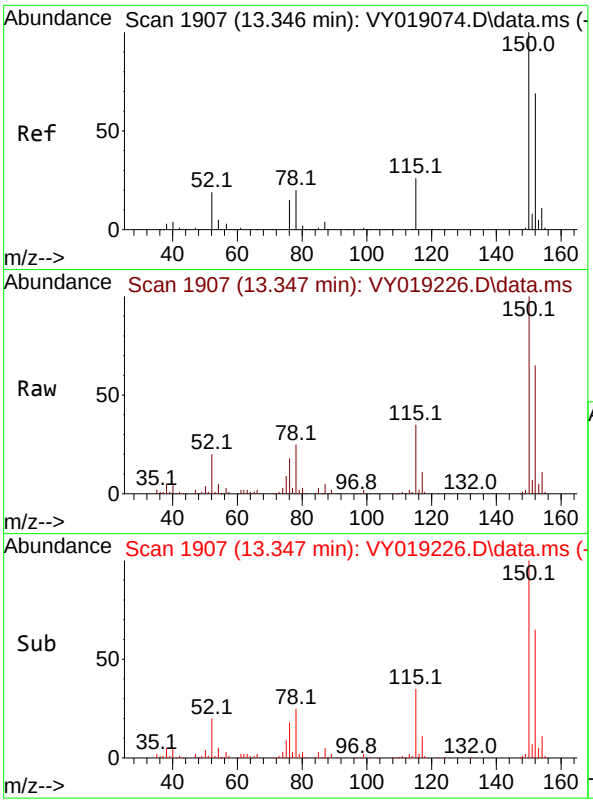


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY019226.D
Acq: 22 Aug 2024 17:33

Tgt Ion:117 Resp: 153261

Ion	Ratio	Lower	Upper
117	100		
82	55.4	42.4	63.6
119	32.7	25.9	38.9



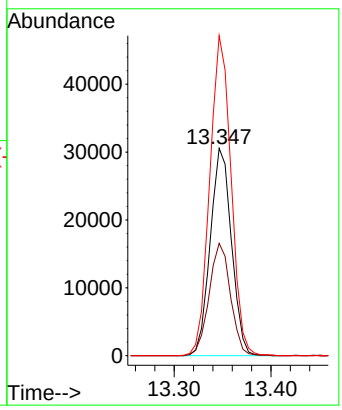


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019226.D
Acq: 22 Aug 2024 17:33

Instrument :
MSVOA_Y
ClientSampleId :
S-905-KJ-SO-0-0.5-081924-FD

Tgt Ion:152 Resp: 46673

Ion	Ratio	Lower	Upper
152	100		
115	54.5	28.2	84.7
150	154.4	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-08	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82
Sample Wt/Vol:	9.65 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019202.D	1		08/22/24 06:09	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	3.20	ug/Kg
74-87-3	Chloromethane	0.73	U	0.73	3.20	ug/Kg
75-01-4	Vinyl Chloride	0.49	U	0.49	3.20	ug/Kg
74-83-9	Bromomethane	0.65	U	0.65	3.20	ug/Kg
75-00-3	Chloroethane	0.64	U	0.64	3.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.68	U	0.68	3.20	ug/Kg
75-35-4	1,1-Dichloroethene	0.49	U	0.49	3.20	ug/Kg
67-64-1	Acetone	24.0		3.90	15.8	ug/Kg
75-15-0	Carbon Disulfide	0.81	U	0.81	3.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.42	U	0.42	3.20	ug/Kg
75-09-2	Methylene Chloride	2.20	U	2.20	6.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.53	U	0.53	3.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.40	U	0.40	3.20	ug/Kg
110-82-7	Cyclohexane	0.44	U	0.44	3.20	ug/Kg
78-93-3	2-Butanone	4.10	J	3.60	15.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.55	U	0.55	3.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.39	U	0.39	3.20	ug/Kg
67-66-3	Chloroform	0.42	U	0.42	3.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.49	U	0.49	3.20	ug/Kg
108-87-2	Methylcyclohexane	0.55	U	0.55	3.20	ug/Kg
71-43-2	Benzene	0.45	U	0.45	3.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.39	U	0.39	3.20	ug/Kg
79-01-6	Trichloroethene	0.47	U	0.47	3.20	ug/Kg
75-27-4	Bromodichloromethane	0.35	U	0.35	3.20	ug/Kg
108-88-3	Toluene	0.42	U	0.42	3.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.53	U	0.53	3.20	ug/Kg
124-48-1	Dibromochloromethane	0.41	U	0.41	3.20	ug/Kg
127-18-4	Tetrachloroethene	0.56	U	0.56	3.20	ug/Kg
108-90-7	Chlorobenzene	0.47	U	0.47	3.20	ug/Kg
100-41-4	Ethyl Benzene	0.39	U	0.39	3.20	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-08	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82
Sample Wt/Vol:	9.65 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019202.D	1		08/22/24 06:09	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	0.85	U	0.85	6.30	ug/Kg
1330-20-7	Total Xylenes	1.29	U	1.29	9.50	ug/Kg
95-47-6	o-Xylene	0.44	U	0.44	3.20	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	0.42	3.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.51	U	0.51	3.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.37	U	0.37	3.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.7		70 (50) - 130 (163)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	48.6		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		70 (29) - 130 (146)	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	105000	7.707			
540-36-3	1,4-Difluorobenzene	186000	8.61			
3114-55-4	Chlorobenzene-d5	172000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	65400	13.353			

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_Y\Data\VY082124\
Data File : VY019202.D
Acq On : 22 Aug 2024 06:09
Operator : SY/MD
Sample : P3671-08
Misc : 9.65g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-905-J-SO-0.5-1.0-081924

Quant Time: Aug 22 07:26:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

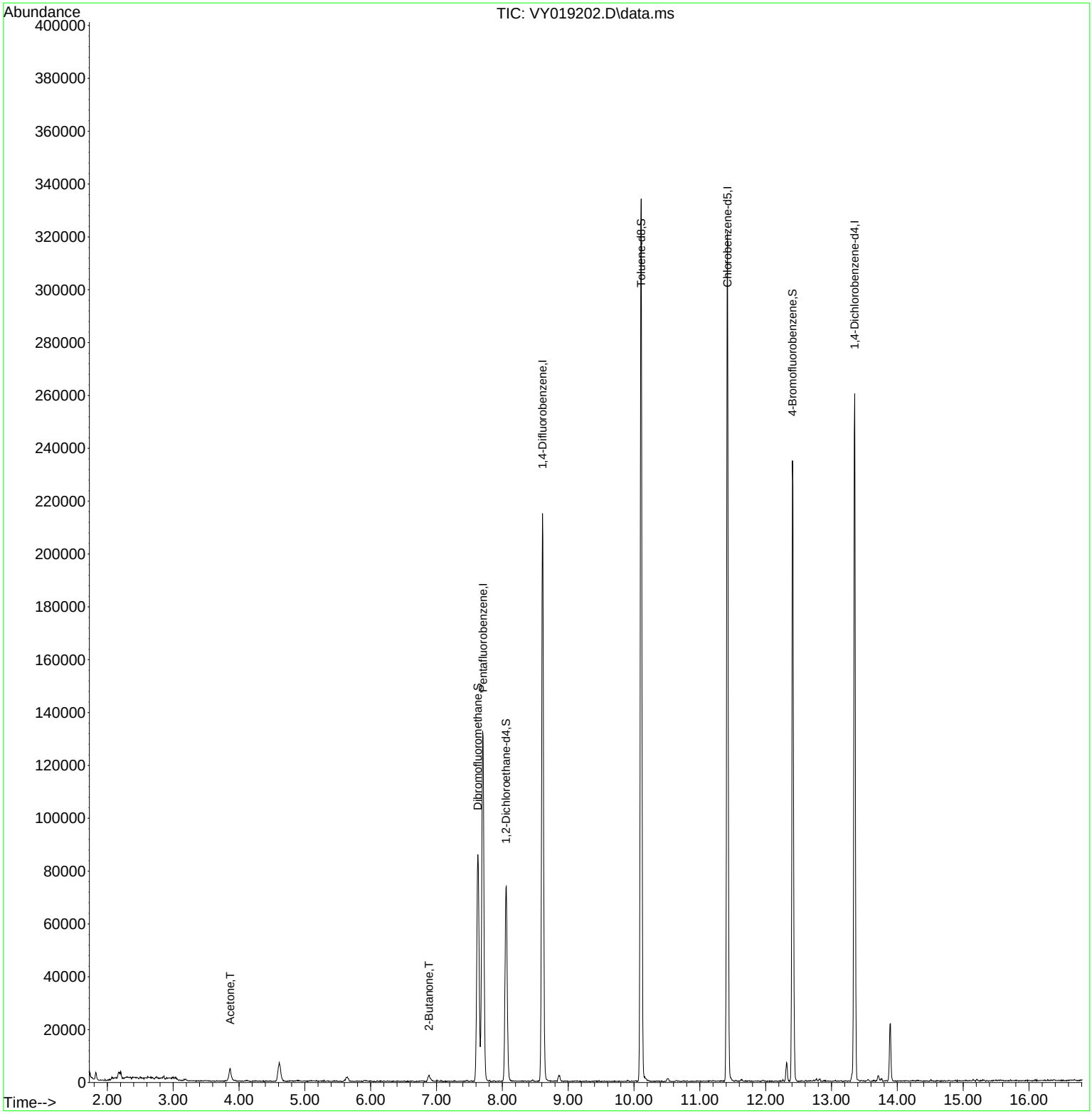
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	105474	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.610	114	186243	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	171554	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	65365	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	59901	56.655	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.300%			
35) Dibromofluoromethane	7.628	113	60632	49.789	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.580%			
50) Toluene-d8	10.109	98	212945	48.592	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.180%			
62) 4-Bromofluorobenzene	12.408	95	67492	45.178	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 90.360%			
Target Compounds						Qvalue
16) Acetone	3.867	43	7435	37.918	ug/l #	86
25) 2-Butanone	6.884	43	2050	6.492	ug/l #	84

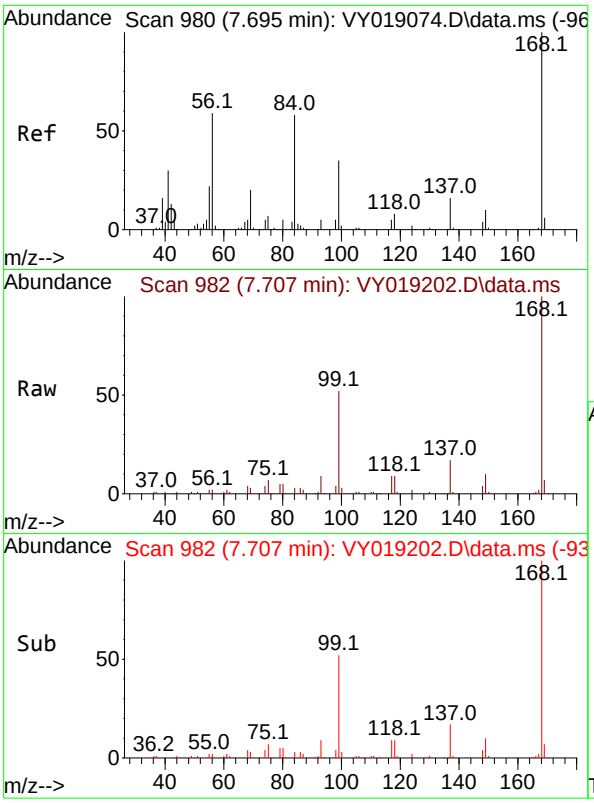
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019202.D
Acq On : 22 Aug 2024 06:09
Operator : SY/MD
Sample : P3671-08
Misc : 9.65g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-905-J-SO-0.5-1.0-081924

Quant Time: Aug 22 07:26:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



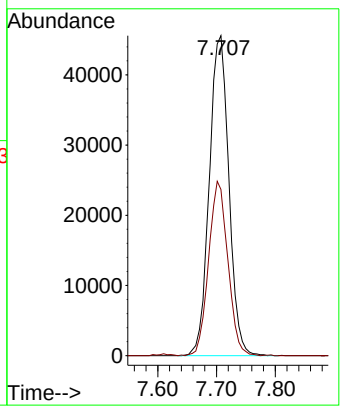


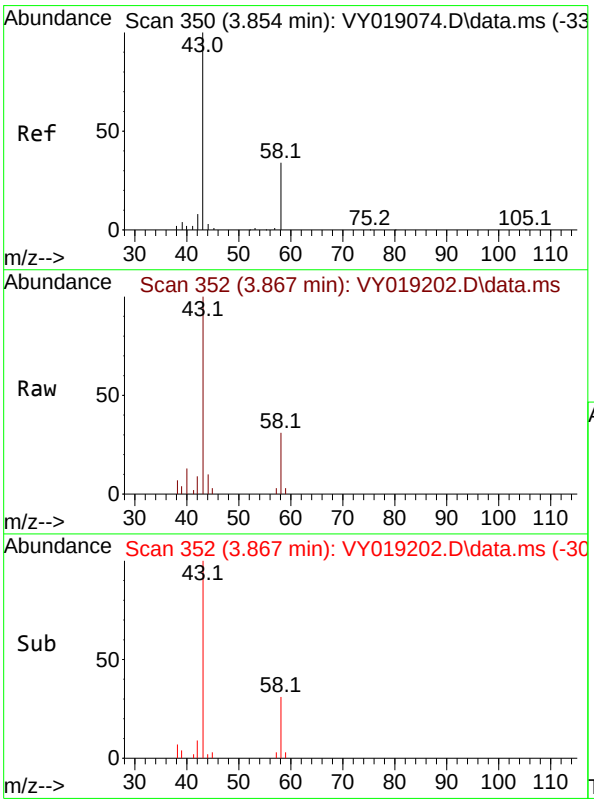
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY019202.D
Acq: 22 Aug 2024 06:09

Instrument :
MSVOA_Y
ClientSampleId :
S-905-J-SO-0.5-1.0-081924

Tgt Ion:168 Resp: 105474

Ion	Ratio	Lower	Upper
168	100		
99	51.9	39.1	58.7

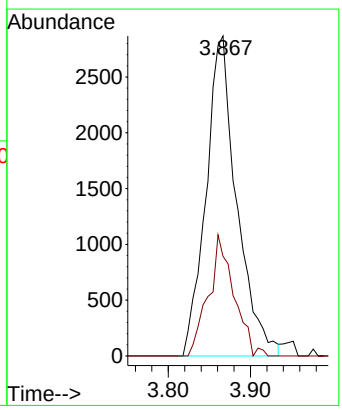


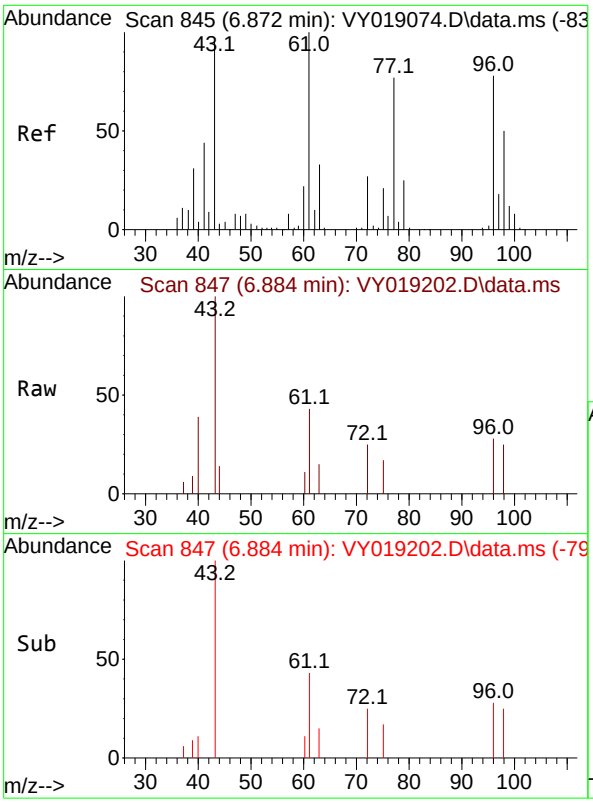


#16
Acetone
Concen: 37.918 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.013 min
Lab File: VY019202.D
Acq: 22 Aug 2024 06:09

Tgt Ion: 43 Resp: 7435

Ion	Ratio	Lower	Upper
43	100		
58	31.2	31.7	47.5#



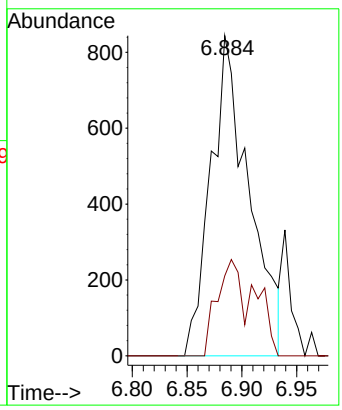


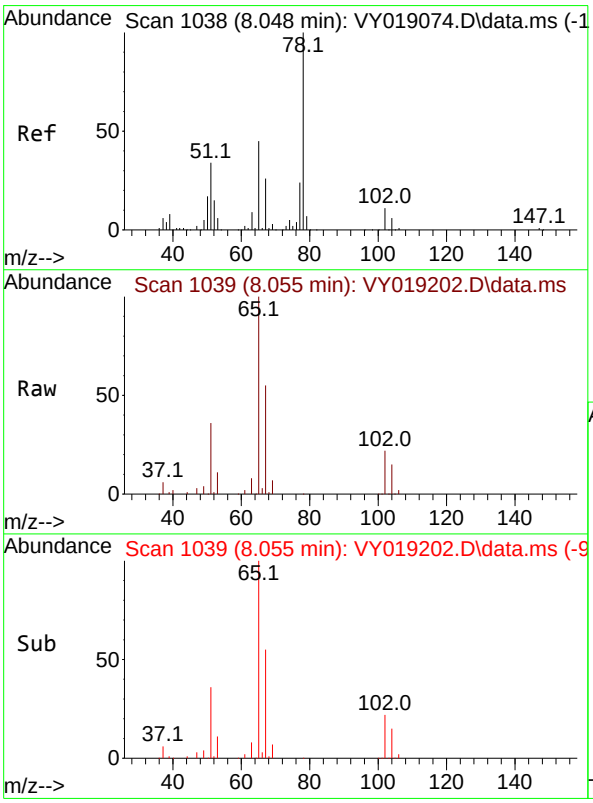
#25
2-Butanone
Concen: 6.492 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.013 min
Lab File: VY019202.D
Acq: 22 Aug 2024 06:09

Instrument :
MSVOA_Y
ClientSampleId :
S-905-J-SO-0.5-1.0-081924

Tgt Ion: 43 Resp: 2050

Ion	Ratio	Lower	Upper
43	100		
72	25.0	27.3	40.9#

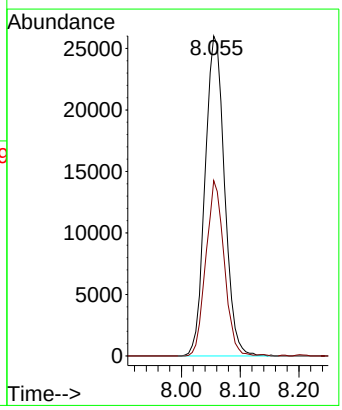


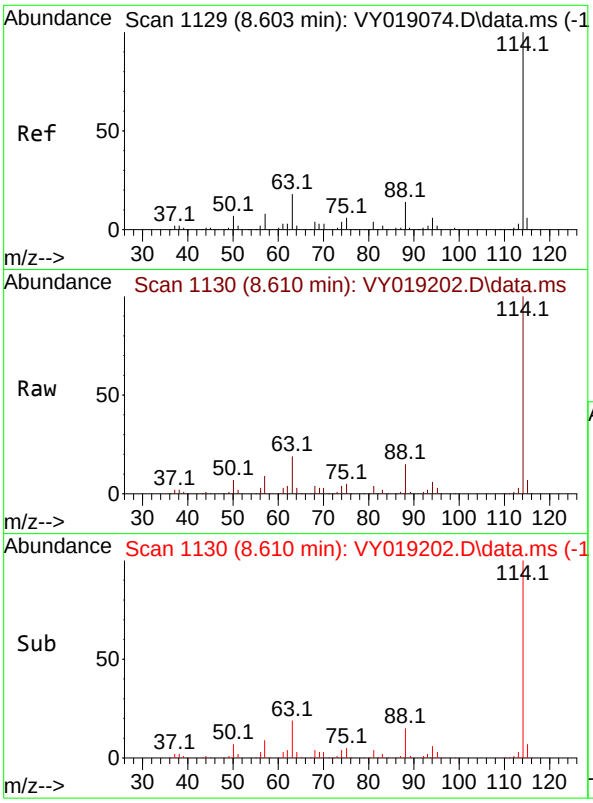


#33
1,2-Dichloroethane-d4
Concen: 56.655 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019202.D
Acq: 22 Aug 2024 06:09

Tgt Ion: 65 Resp: 59901

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	109.6



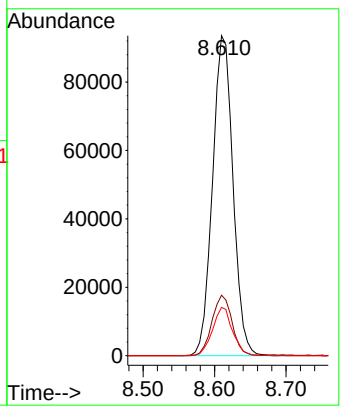


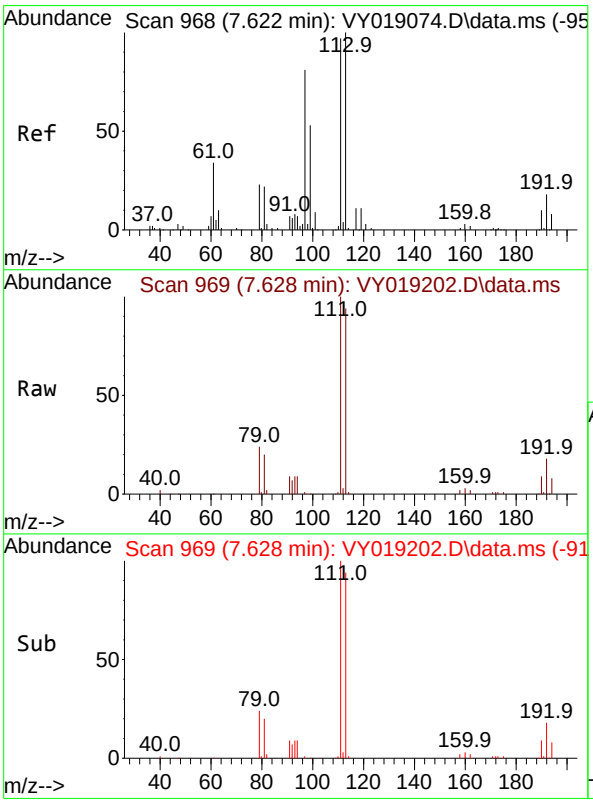
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019202.D
Acq: 22 Aug 2024 06:09

Instrument :
MSVOA_Y
ClientSampleId :
S-905-J-SO-0.5-1.0-081924

Tgt Ion:114 Resp: 186243

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	35.0
88	15.1	0.0	27.2

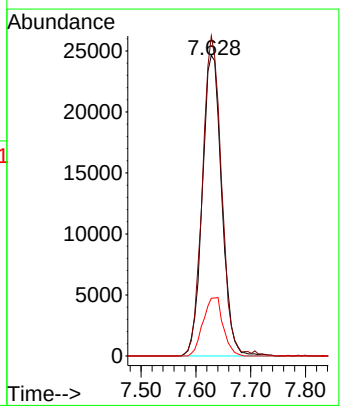


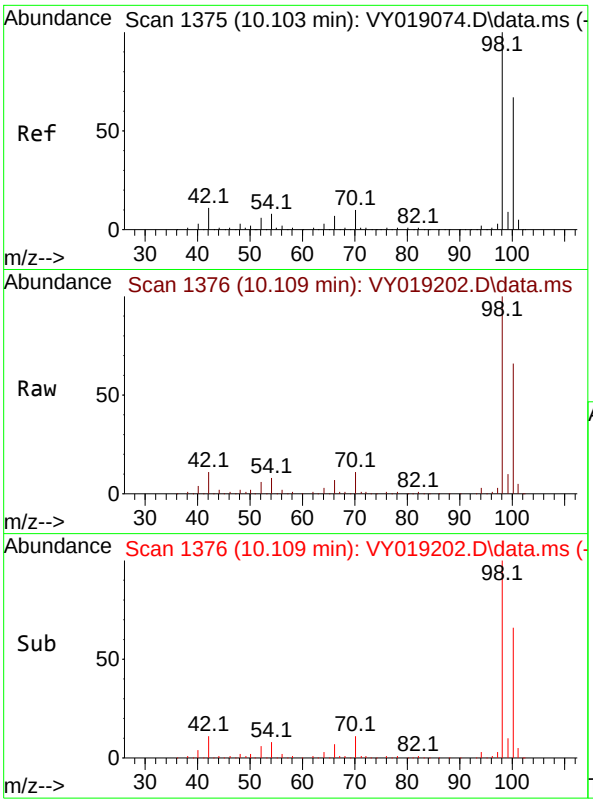


#35
Dibromofluoromethane
Concen: 49.789 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY019202.D
Acq: 22 Aug 2024 06:09

Tgt Ion:113 Resp: 60632

Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.2	123.4
192	20.0	15.9	23.9



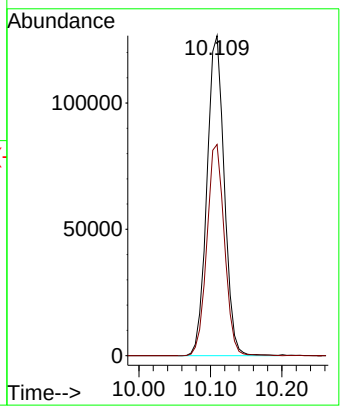


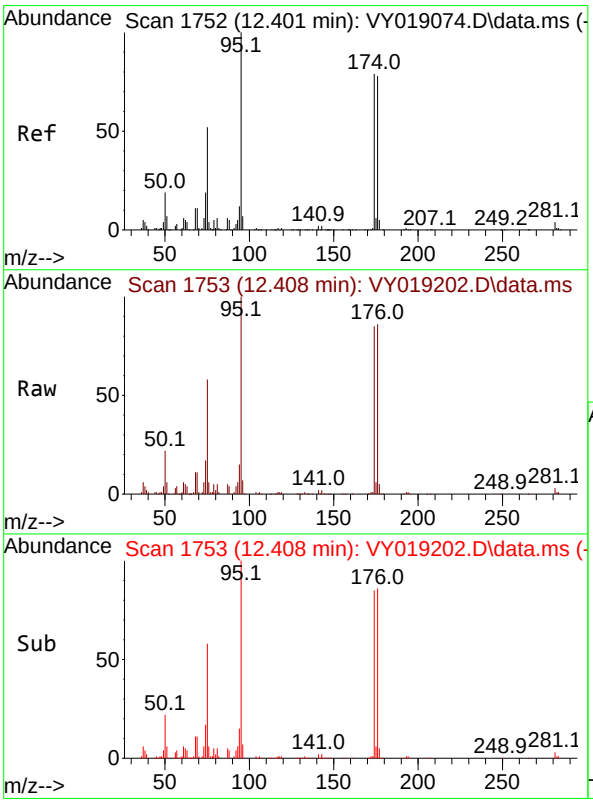
#50
Toluene-d8
Concen: 48.592 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019202.D
Acq: 22 Aug 2024 06:09

Instrument :
MSVOA_Y
ClientSampleId :
S-905-J-SO-0.5-1.0-081924

Tgt Ion: 98 Resp: 212945

Ion	Ratio	Lower	Upper
98	100		
100	67.0	52.0	78.0

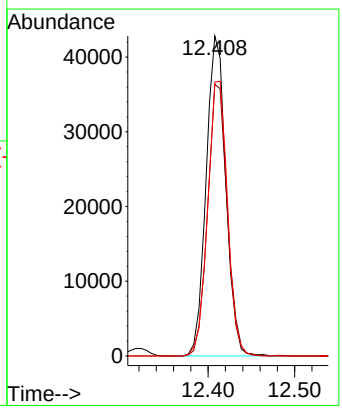


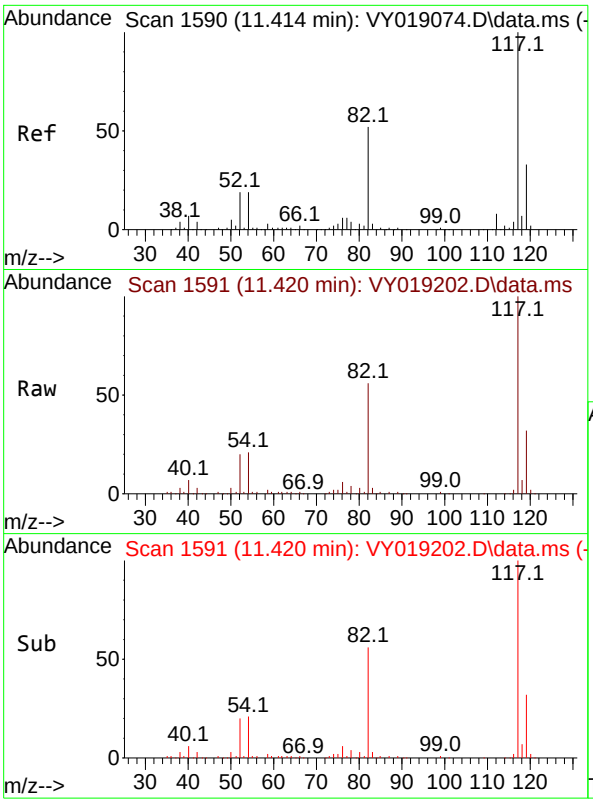


#62
4-Bromofluorobenzene
Concen: 45.178 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019202.D
Acq: 22 Aug 2024 06:09

Tgt Ion: 95 Resp: 67492

Ion	Ratio	Lower	Upper
95	100		
174	84.8	0.0	175.6
176	86.3	0.0	171.4



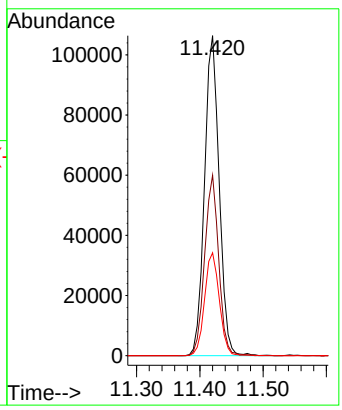


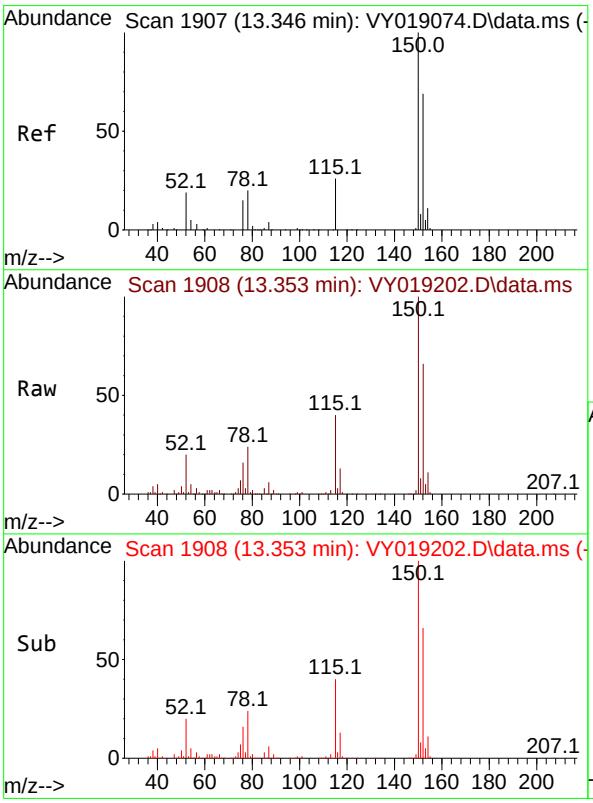
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019202.D
Acq: 22 Aug 2024 06:09

Instrument :
MSVOA_Y
ClientSampleId :
S-905-J-SO-0.5-1.0-081924

Tgt Ion:117 Resp: 171554

Ion	Ratio	Lower	Upper
117	100		
82	56.4	42.4	63.6
119	32.1	25.9	38.9

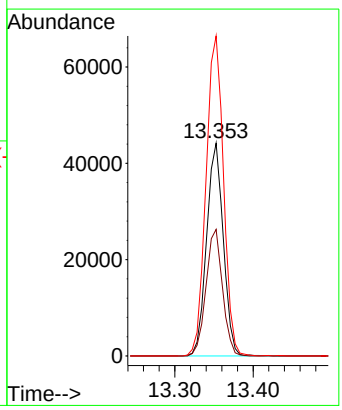




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019202.D
Acq: 22 Aug 2024 06:09

Tgt Ion:152 Resp: 65365

Ion	Ratio	Lower	Upper
152	100		
115	58.9	28.2	84.7
150	157.2	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	48
Sample Wt/Vol:	5.47 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019203.D	1		08/22/24 06:33	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	3.10	U	3.10	9.50	ug/Kg
74-87-3	Chloromethane	2.20	U	2.20	9.50	ug/Kg
75-01-4	Vinyl Chloride	1.50	U	1.50	9.50	ug/Kg
74-83-9	Bromomethane	2.00	U	2.00	9.50	ug/Kg
75-00-3	Chloroethane	1.90	U	1.90	9.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.00	U	2.00	9.50	ug/Kg
75-35-4	1,1-Dichloroethene	1.50	U	1.50	9.50	ug/Kg
67-64-1	Acetone	11.9	U	11.9	47.6	ug/Kg
75-15-0	Carbon Disulfide	2.40	U	2.40	9.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.30	U	1.30	9.50	ug/Kg
75-09-2	Methylene Chloride	6.50	U	6.50	19.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.60	U	1.60	9.50	ug/Kg
75-34-3	1,1-Dichloroethane	1.20	U	1.20	9.50	ug/Kg
110-82-7	Cyclohexane	1.30	U	1.30	9.50	ug/Kg
78-93-3	2-Butanone	10.8	U	10.8	47.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.70	U	1.70	9.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.20	U	1.20	9.50	ug/Kg
67-66-3	Chloroform	1.30	U	1.30	9.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.50	U	1.50	9.50	ug/Kg
108-87-2	Methylcyclohexane	1.70	U	1.70	9.50	ug/Kg
71-43-2	Benzene	1.40	U	1.40	9.50	ug/Kg
107-06-2	1,2-Dichloroethane	1.20	U	1.20	9.50	ug/Kg
79-01-6	Trichloroethene	1.40	U	1.40	9.50	ug/Kg
75-27-4	Bromodichloromethane	1.10	U	1.10	9.50	ug/Kg
108-88-3	Toluene	1.30	U	1.30	9.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.60	U	1.60	9.50	ug/Kg
124-48-1	Dibromochloromethane	1.20	U	1.20	9.50	ug/Kg
127-18-4	Tetrachloroethene	1.70	U	1.70	9.50	ug/Kg
108-90-7	Chlorobenzene	1.40	U	1.40	9.50	ug/Kg
100-41-4	Ethyl Benzene	1.20	U	1.20	9.50	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	48
Sample Wt/Vol:	5.47 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019203.D	1		08/22/24 06:33	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1330-20-7	Total Xylenes	3.90	U	3.90	28.5	ug/Kg
179601-23-1	m/p-Xylenes	2.60	U	2.60	19.0	ug/Kg
95-47-6	o-Xylene	1.30	U	1.30	9.50	ug/Kg
98-82-8	Isopropylbenzene	1.30	U	1.30	9.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	9.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	9.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.6		70 (50) - 130 (163)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		70 (54) - 130 (147)	97%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (58) - 130 (134)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.2		70 (29) - 130 (146)	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	90900	7.701			
540-36-3	1,4-Difluorobenzene	164000	8.61			
3114-55-4	Chlorobenzene-d5	148000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	44900	13.353			

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_Y\Data\VY082124\
Data File : VY019203.D
Acq On : 22 Aug 2024 06:33
Operator : SY/MD
Sample : P3671-09
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0-0.5-081924

Quant Time: Aug 22 07:26:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

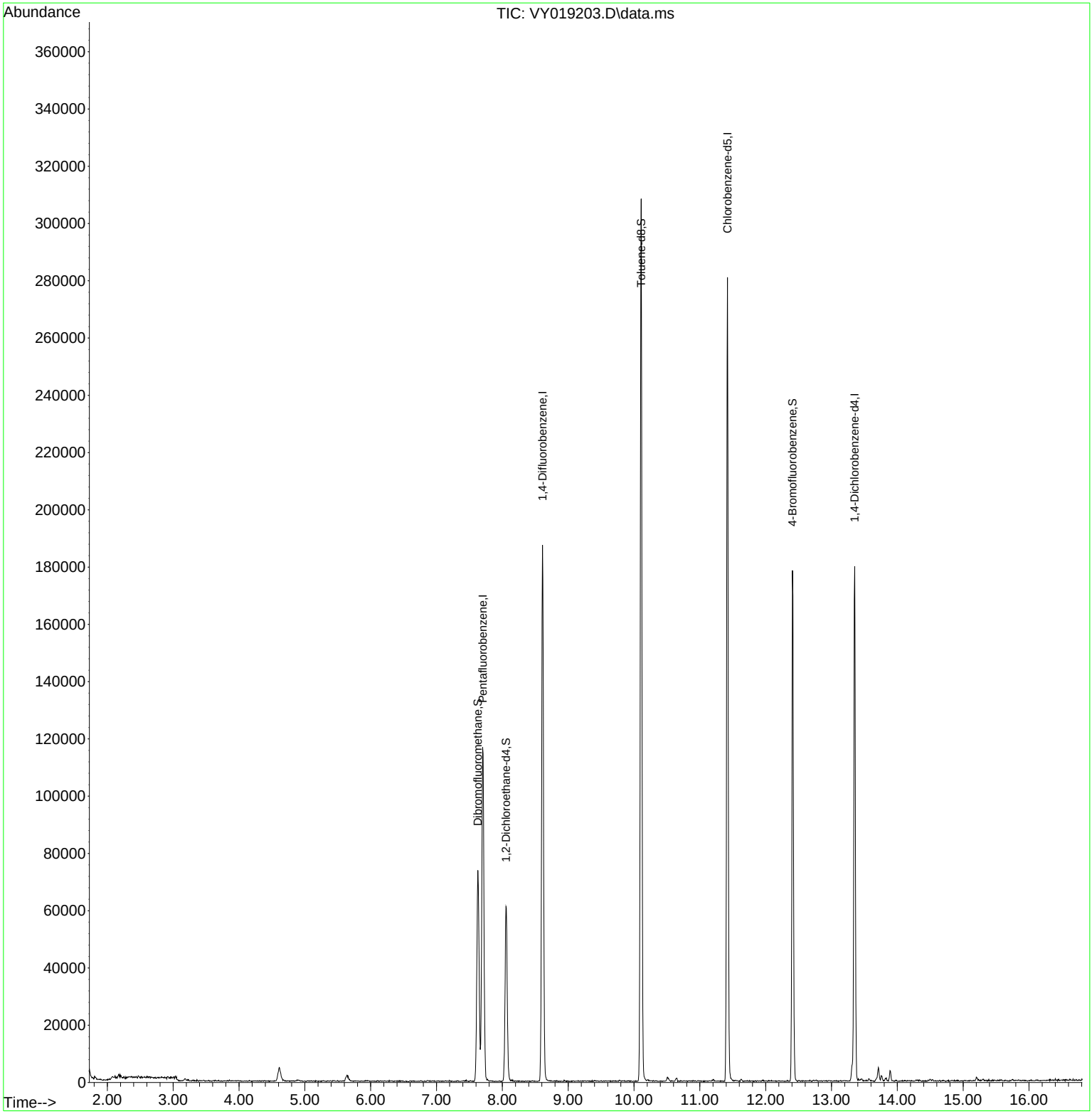
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	90900	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	164483	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	148147	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	44883	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	48858	53.619	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.240%			
35) Dibromofluoromethane	7.628	113	52158	48.497	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.000%			
50) Toluene-d8	10.109	98	197827	51.114	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.220%			
62) 4-Bromofluorobenzene	12.408	95	54423	41.249	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 82.500%			
Target Compounds						Qvalue

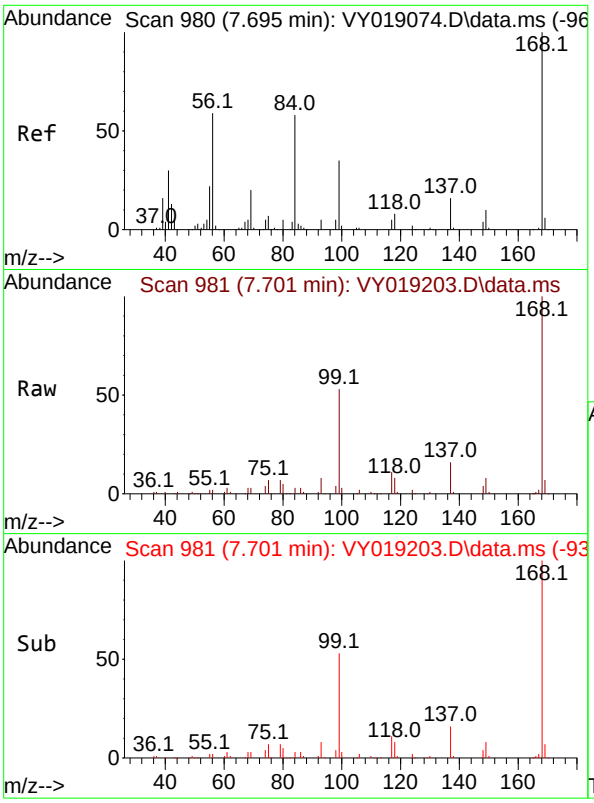
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019203.D
Acq On : 22 Aug 2024 06:33
Operator : SY/MD
Sample : P3671-09
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0-0.5-081924

Quant Time: Aug 22 07:26:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



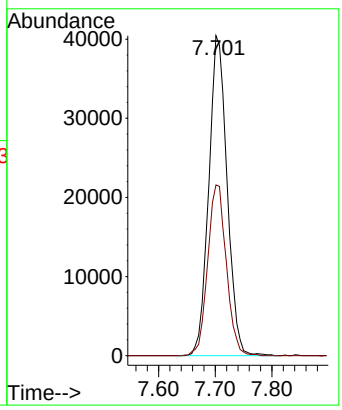


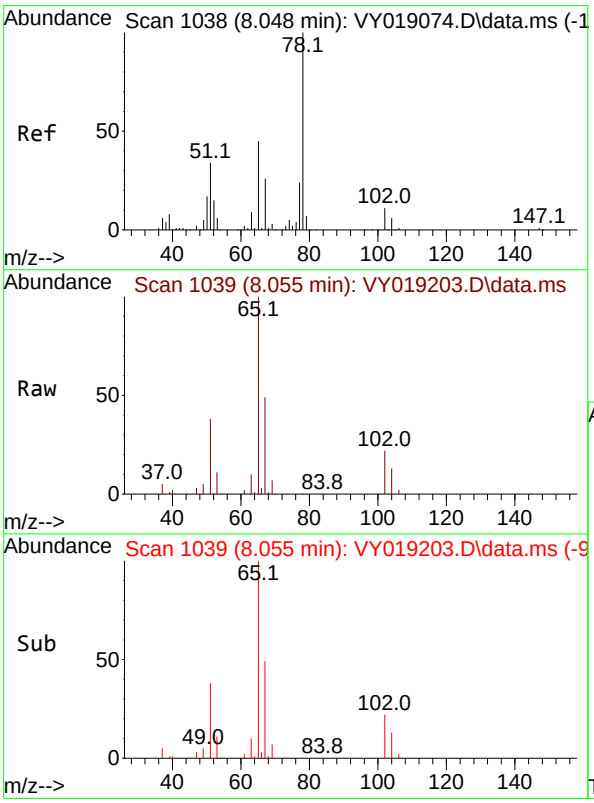
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019203.D
Acq: 22 Aug 2024 06:33

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0-0.5-081924

Tgt Ion:168 Resp: 90900

Ion	Ratio	Lower	Upper
168	100		
99	53.3	39.1	58.7

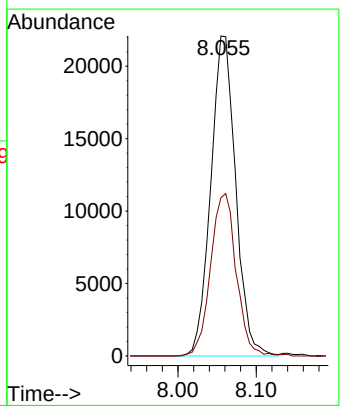


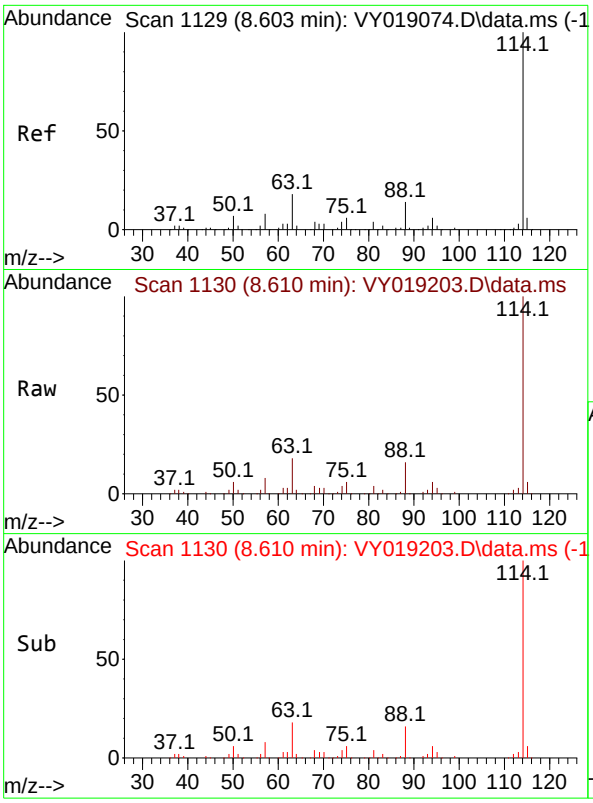


#33
1,2-Dichloroethane-d4
Concen: 53.619 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019203.D
Acq: 22 Aug 2024 06:33

Tgt Ion: 65 Resp: 48858

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	109.6



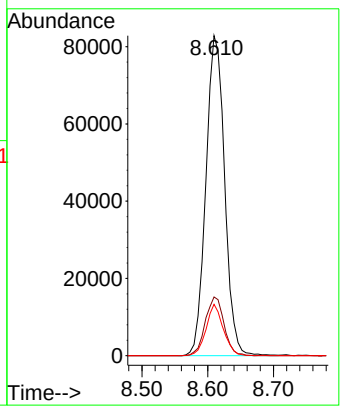


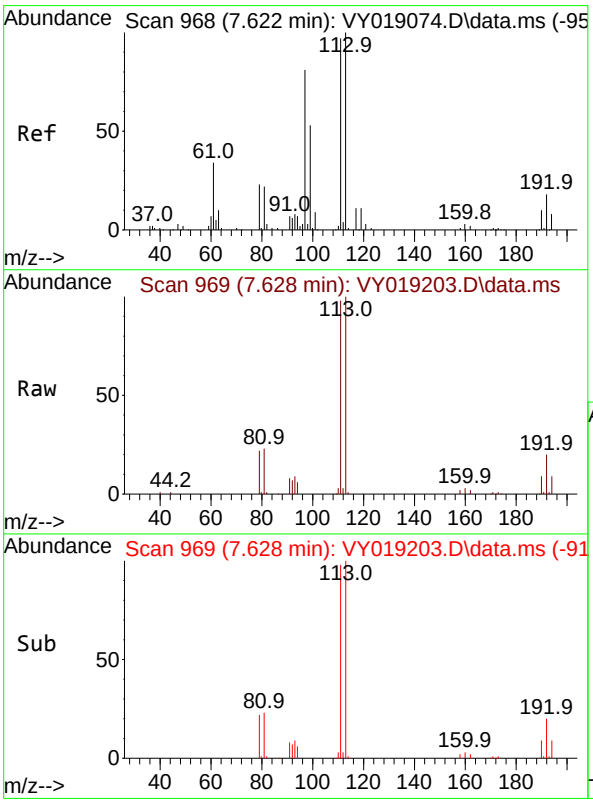
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019203.D
Acq: 22 Aug 2024 06:33

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0-0.5-081924

Tgt Ion:114 Resp: 164483

Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	35.0
88	16.0	0.0	27.2

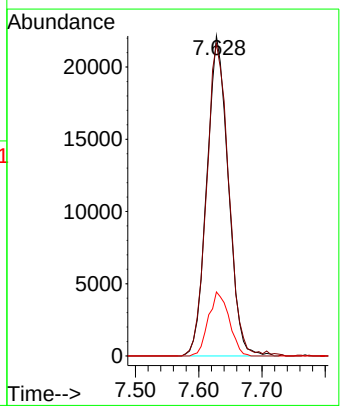


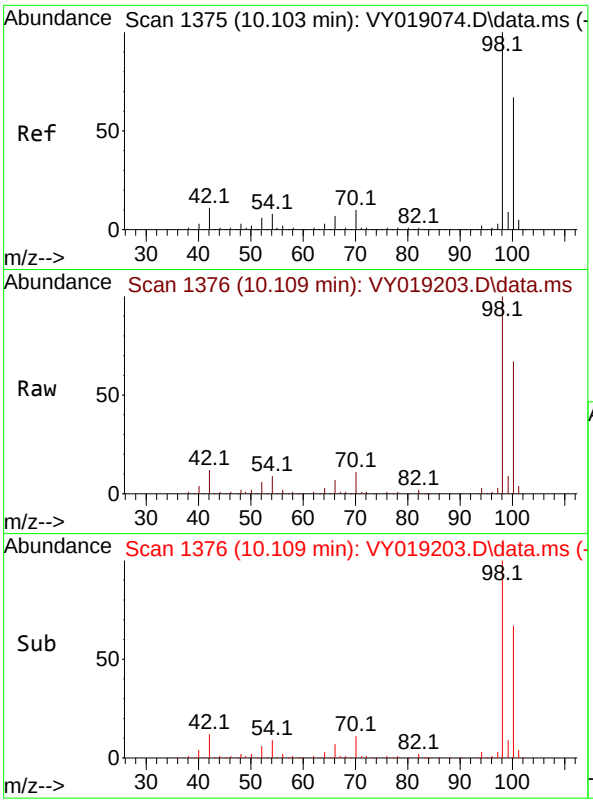


#35
Dibromofluoromethane
Concen: 48.497 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY019203.D
Acq: 22 Aug 2024 06:33

Tgt Ion:113 Resp: 52158

Ion	Ratio	Lower	Upper
113	100		
111	101.0	82.2	123.4
192	19.3	15.9	23.9



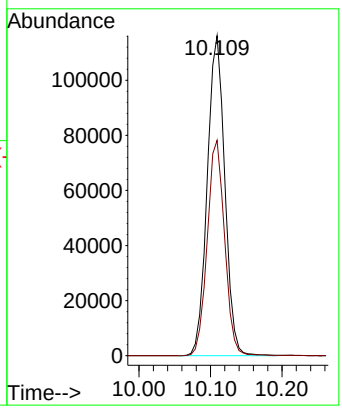


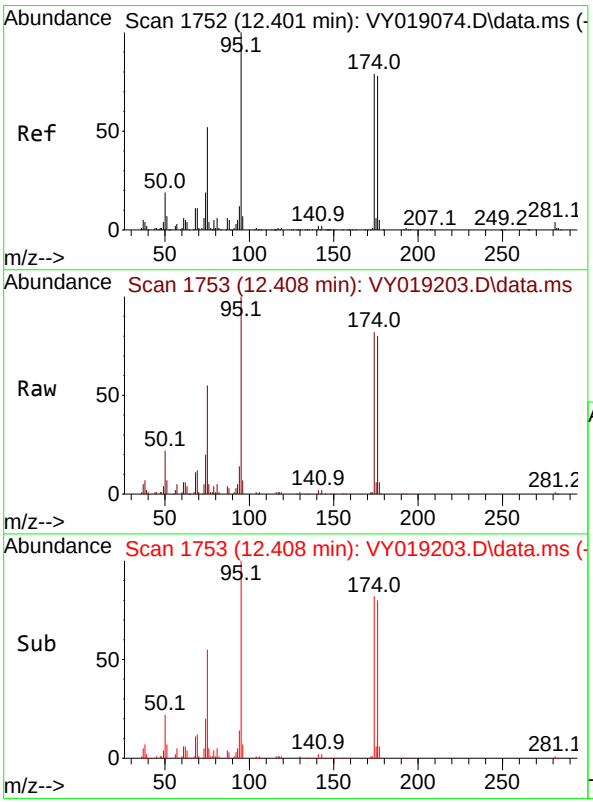
#50
Toluene-d8
Concen: 51.114 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019203.D
Acq: 22 Aug 2024 06:33

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0-0.5-081924

Tgt Ion: 98 Resp: 197827

Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.0	78.0

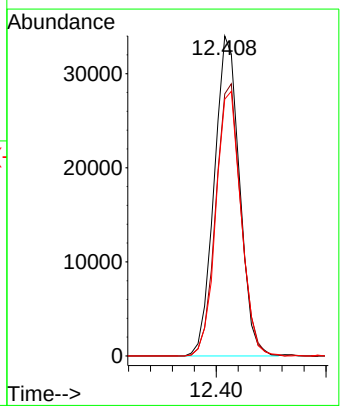


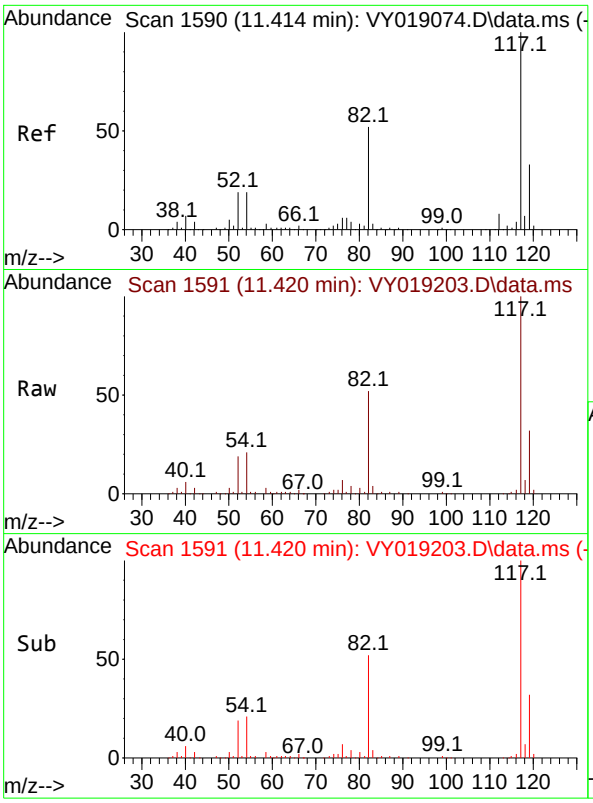


#62
4-Bromofluorobenzene
Concen: 41.249 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019203.D
Acq: 22 Aug 2024 06:33

Tgt Ion: 95 Resp: 54423

Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	175.6
176	82.2	0.0	171.4



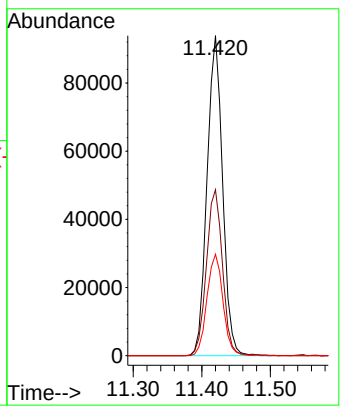


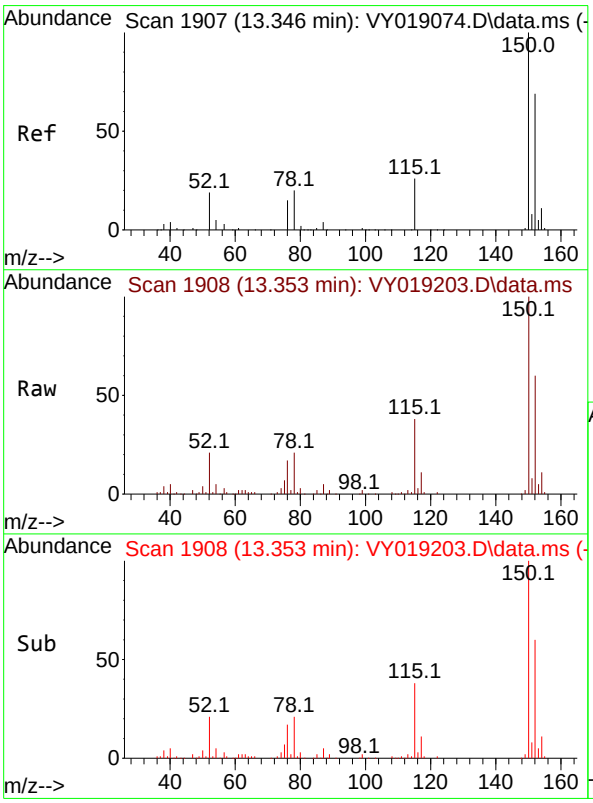
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019203.D
Acq: 22 Aug 2024 06:33

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0-0.5-081924

Tgt Ion:117 Resp: 148147

Ion	Ratio	Lower	Upper
117	100		
82	51.9	42.4	63.6
119	31.7	25.9	38.9

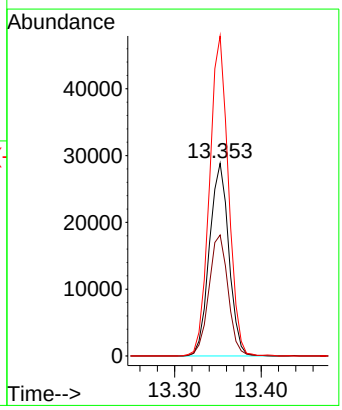




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019203.D
Acq: 22 Aug 2024 06:33

Tgt Ion:152 Resp: 44883

Ion	Ratio	Lower	Upper
152	100		
115	62.2	28.2	84.7
150	161.5	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0-0.5-081924RE	SDG No.:	P3671
Lab Sample ID:	P3671-09RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	48
Sample Wt/Vol:	3.72 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019227.D	1		08/22/24 17:58	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	4.60	U	4.60	14.0	ug/Kg
74-87-3	Chloromethane	3.20	U	3.20	14.0	ug/Kg
75-01-4	Vinyl Chloride	2.20	U	2.20	14.0	ug/Kg
74-83-9	Bromomethane	2.90	U	2.90	14.0	ug/Kg
75-00-3	Chloroethane	2.80	U	2.80	14.0	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	3.00	U	3.00	14.0	ug/Kg
75-35-4	1,1-Dichloroethene	2.20	U	2.20	14.0	ug/Kg
67-64-1	Acetone	17.5	U	17.5	70.0	ug/Kg
75-15-0	Carbon Disulfide	3.60	U	3.60	14.0	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.90	U	1.90	14.0	ug/Kg
75-09-2	Methylene Chloride	9.50	U	9.50	28.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.40	U	2.40	14.0	ug/Kg
75-34-3	1,1-Dichloroethane	1.80	U	1.80	14.0	ug/Kg
110-82-7	Cyclohexane	1.90	U	1.90	14.0	ug/Kg
78-93-3	2-Butanone	15.9	U	15.9	70.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.40	U	2.40	14.0	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.70	U	1.70	14.0	ug/Kg
67-66-3	Chloroform	1.90	U	1.90	14.0	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.20	U	2.20	14.0	ug/Kg
108-87-2	Methylcyclohexane	2.40	U	2.40	14.0	ug/Kg
71-43-2	Benzene	2.00	U	2.00	14.0	ug/Kg
107-06-2	1,2-Dichloroethane	1.70	U	1.70	14.0	ug/Kg
79-01-6	Trichloroethene	2.10	U	2.10	14.0	ug/Kg
75-27-4	Bromodichloromethane	1.60	U	1.60	14.0	ug/Kg
108-88-3	Toluene	1.90	U	1.90	14.0	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.40	U	2.40	14.0	ug/Kg
124-48-1	Dibromochloromethane	1.80	U	1.80	14.0	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	2.50	14.0	ug/Kg
108-90-7	Chlorobenzene	2.10	U	2.10	14.0	ug/Kg
100-41-4	Ethyl Benzene	1.70	U	1.70	14.0	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0-0.5-081924RE	SDG No.:	P3671
Lab Sample ID:	P3671-09RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	48
Sample Wt/Vol:	3.72 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019227.D	1		08/22/24 17:58	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	3.80	U	3.80	28.0	ug/Kg
1330-20-7	Total Xylenes	5.80	U	5.80	42.0	ug/Kg
95-47-6	o-Xylene	2.00	U	2.00	14.0	ug/Kg
98-82-8	Isopropylbenzene	1.90	U	1.90	14.0	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.20	U	2.20	14.0	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.70	U	1.70	14.0	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.9		70 (50) - 130 (163)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	34.0	*	70 (29) - 130 (146)	68%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	73000	7.701			
540-36-3	1,4-Difluorobenzene	126000	8.609			
3114-55-4	Chlorobenzene-d5	105000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	28600	13.346			

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_Y\Data\VY082224\
Data File : VY019227.D
Acq On : 22 Aug 2024 17:58
Operator : SY/MD
Sample : P3671-09RE
Misc : 3.72g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0-0.5-081924RE

Quant Time: Aug 23 01:55:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

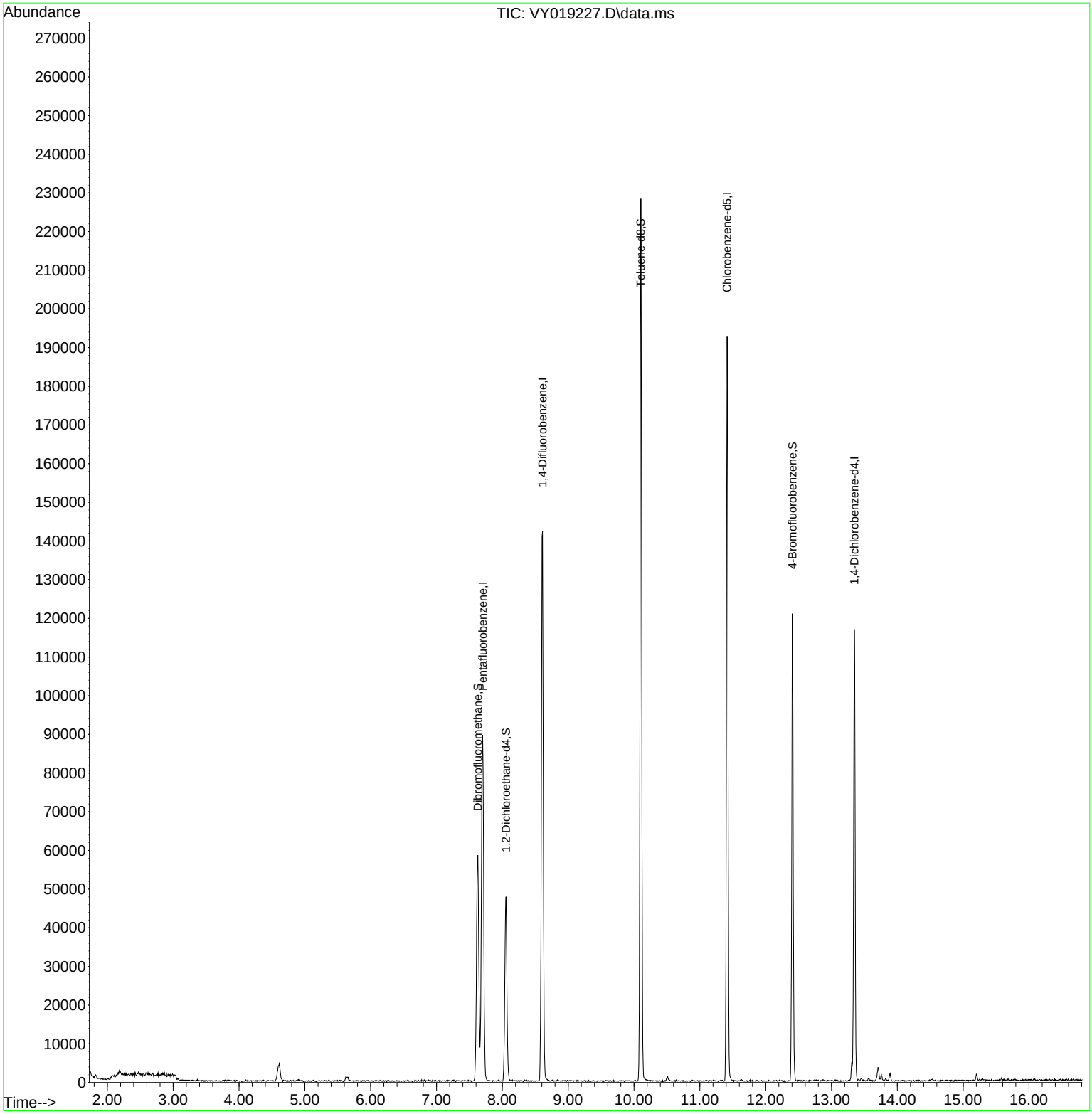
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	73034	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	126240	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	104719	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	28585	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	35774	48.864	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.720%			
35) Dibromofluoromethane	7.628	113	41849	50.700	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.400%			
50) Toluene-d8	10.103	98	144580	48.673	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.340%			
62) 4-Bromofluorobenzene	12.408	95	34457	34.028	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 68.060%			
Target Compounds						Qvalue

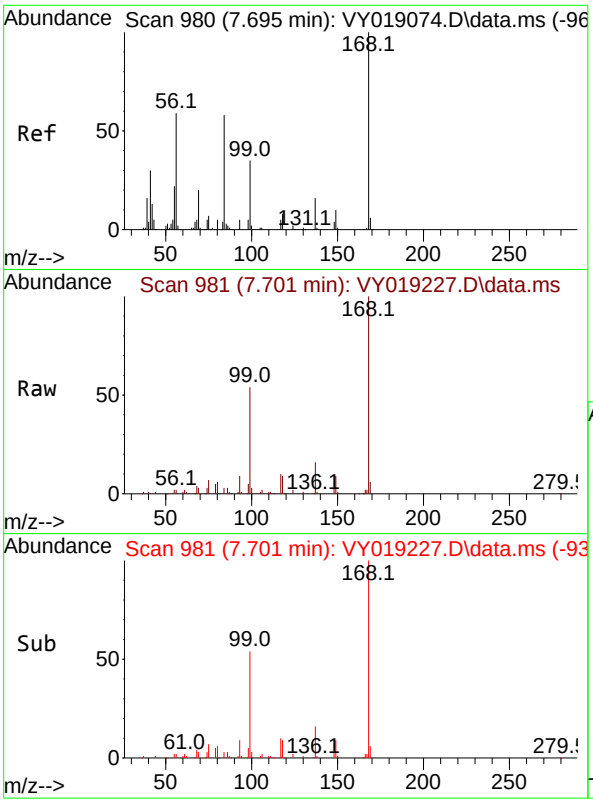
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019227.D
Acq On : 22 Aug 2024 17:58
Operator : SY/MD
Sample : P3671-09RE
Misc : 3.72g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0-0.5-081924RE

Quant Time: Aug 23 01:55:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



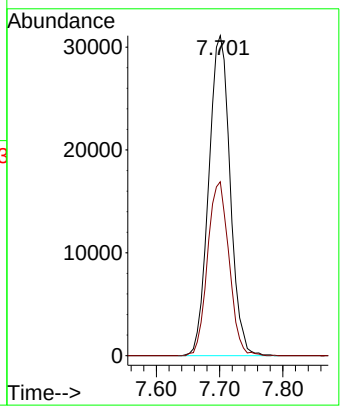


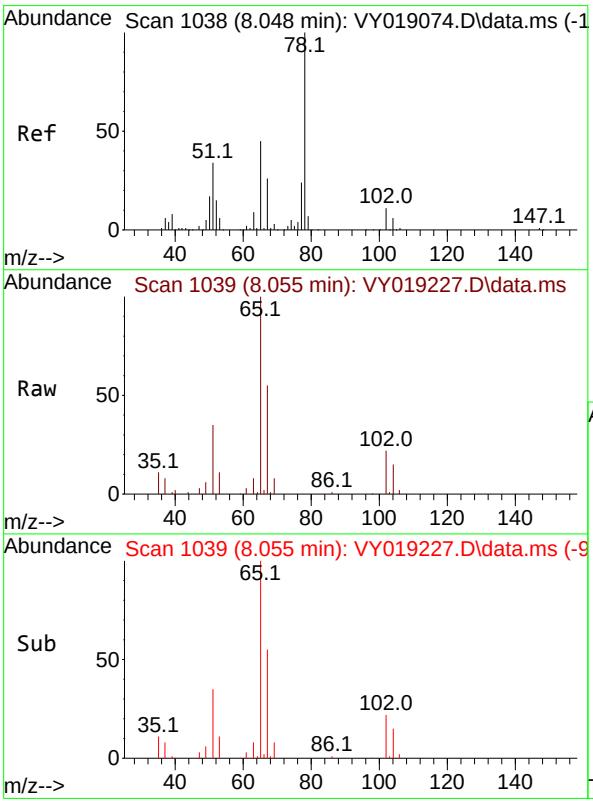
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019227.D
Acq: 22 Aug 2024 17:58

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0-0.5-081924RE

Tgt Ion:168 Resp: 73034

Ion	Ratio	Lower	Upper
168	100		
99	54.4	39.1	58.7

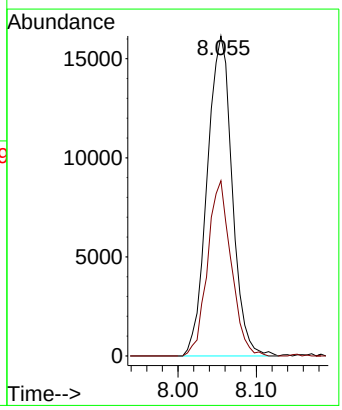


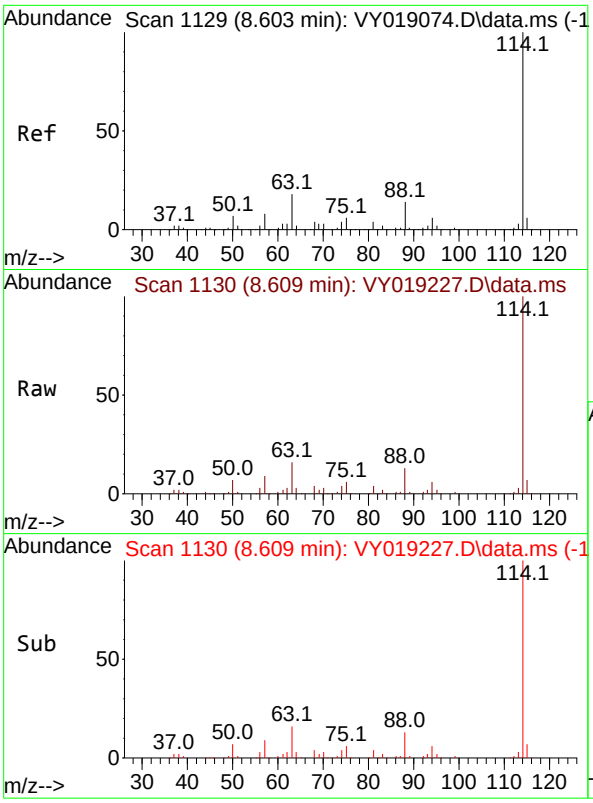


#33
1,2-Dichloroethane-d4
Concen: 48.864 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019227.D
Acq: 22 Aug 2024 17:58

Tgt Ion: 65 Resp: 35774

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	109.6



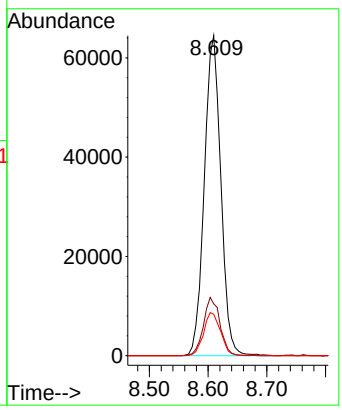


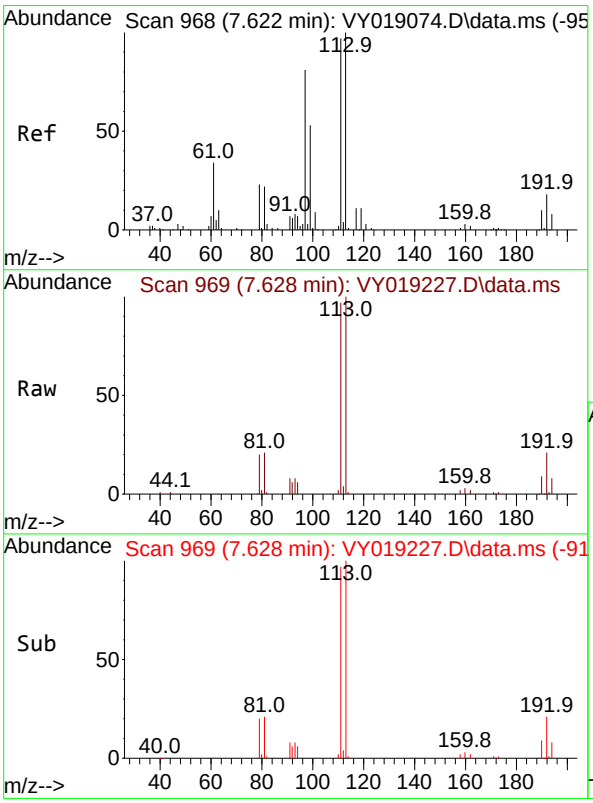
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019227.D
Acq: 22 Aug 2024 17:58

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0-0.5-081924RE

Tgt Ion:114 Resp: 126240

Ion	Ratio	Lower	Upper
114	100		
63	16.2	0.0	35.0
88	12.9	0.0	27.2

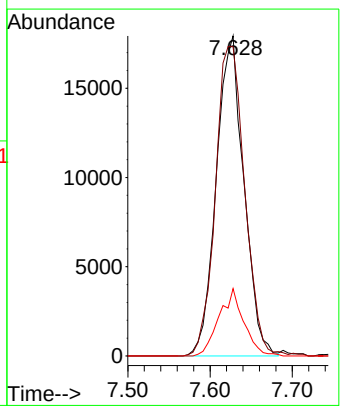


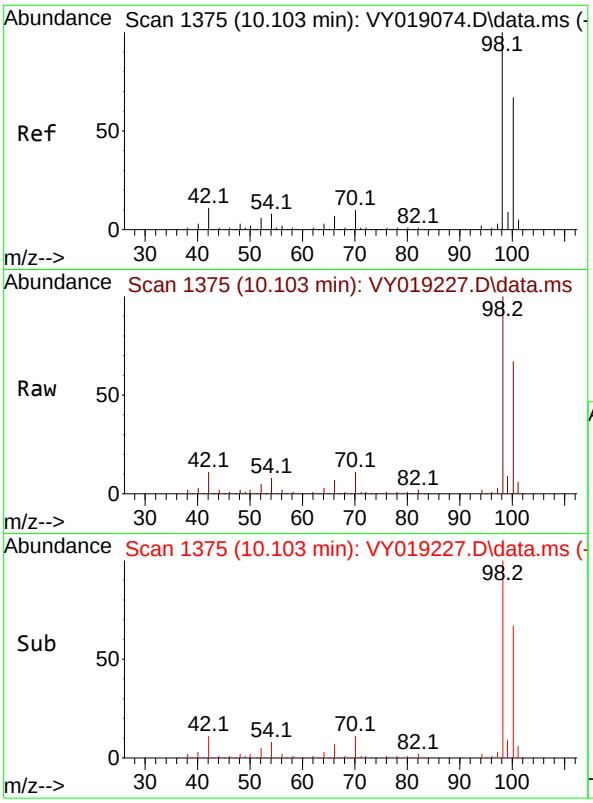


#35
Dibromofluoromethane
Concen: 50.700 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY019227.D
Acq: 22 Aug 2024 17:58

Tgt Ion:113 Resp: 41849

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.2	123.4
192	19.0	15.9	23.9



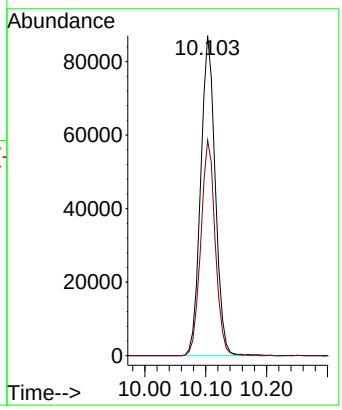


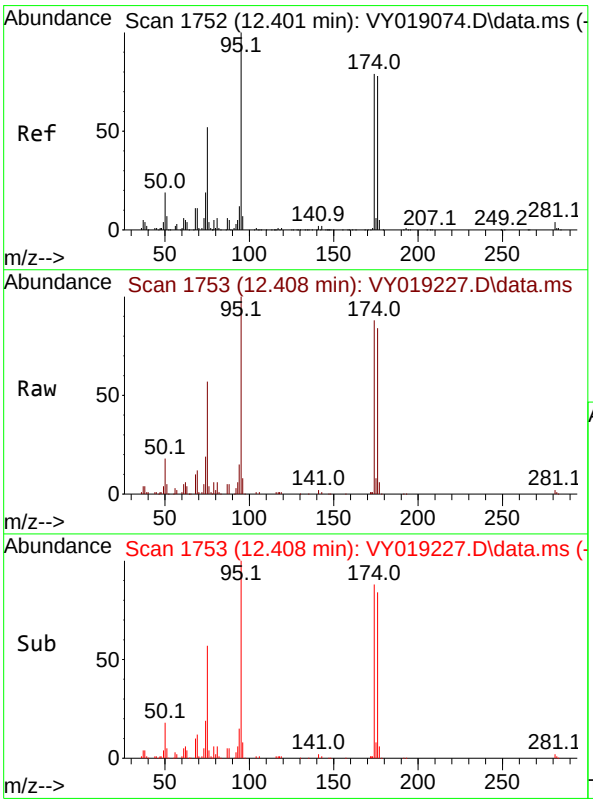
#50
Toluene-d8
Concen: 48.673 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019227.D
Acq: 22 Aug 2024 17:58

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0-0.5-081924RE

Tgt Ion: 98 Resp: 144580

Ion	Ratio	Lower	Upper
98	100		
100	66.7	52.0	78.0

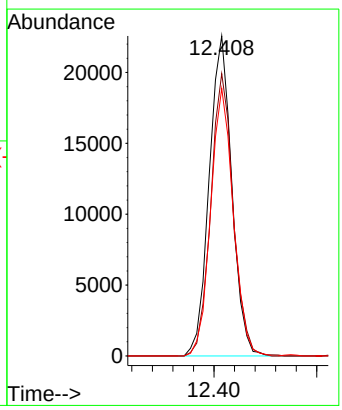


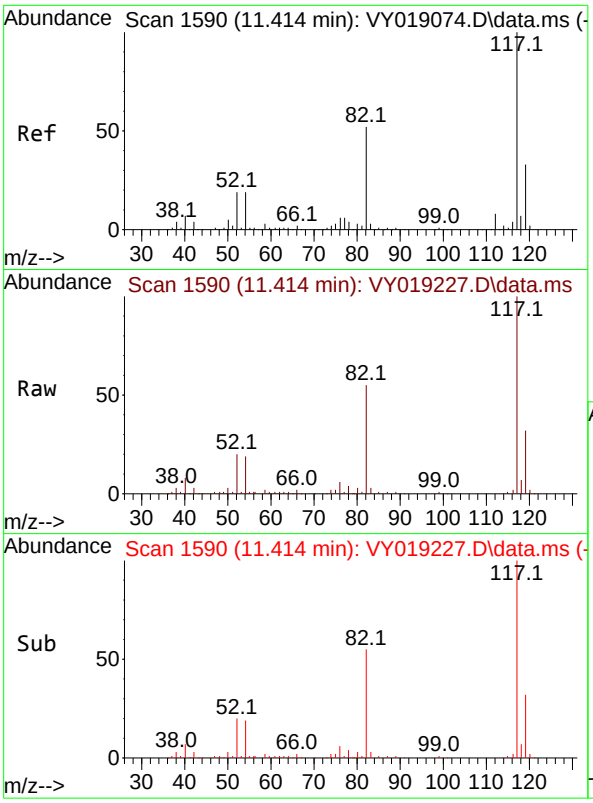


#62
4-Bromofluorobenzene
Concen: 34.028 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019227.D
Acq: 22 Aug 2024 17:58

Tgt Ion: 95 Resp: 34457

Ion	Ratio	Lower	Upper
95	100		
174	87.3	0.0	175.6
176	83.8	0.0	171.4



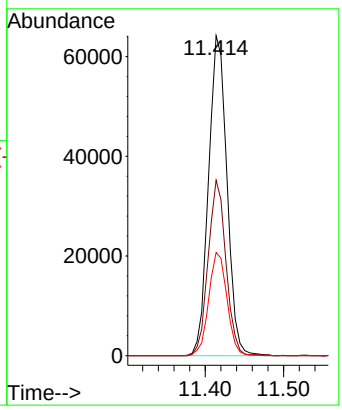


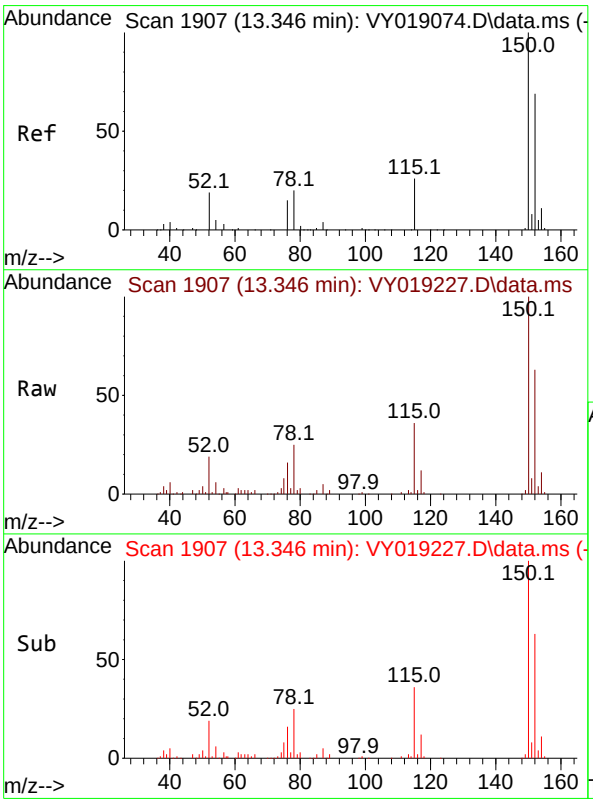
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019227.D
Acq: 22 Aug 2024 17:58

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0-0.5-081924RE

Tgt Ion:117 Resp: 104719

Ion	Ratio	Lower	Upper
117	100		
82	54.8	42.4	63.6
119	32.3	25.9	38.9

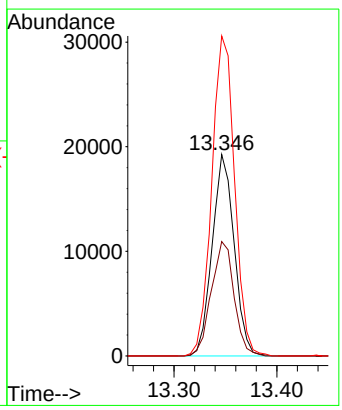




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019227.D
Acq: 22 Aug 2024 17:58

Tgt Ion:152 Resp: 28585

Ion	Ratio	Lower	Upper
152	100		
115	58.8	28.2	84.7
150	164.6	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-10	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	57.2
Sample Wt/Vol:	6.47 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019204.D	1		08/22/24 06:57	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.20	U	2.20	6.80	ug/Kg
74-87-3	Chloromethane	1.60	U	1.60	6.80	ug/Kg
75-01-4	Vinyl Chloride	1.00	U	1.00	6.80	ug/Kg
74-83-9	Bromomethane	1.40	U	1.40	6.80	ug/Kg
75-00-3	Chloroethane	1.40	U	1.40	6.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	U	1.40	6.80	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	6.80	ug/Kg
67-64-1	Acetone	8.40	U	8.40	33.8	ug/Kg
75-15-0	Carbon Disulfide	1.70	U	1.70	6.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.91	U	0.91	6.80	ug/Kg
75-09-2	Methylene Chloride	4.60	U	4.60	13.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.85	U	0.85	6.80	ug/Kg
110-82-7	Cyclohexane	0.93	U	0.93	6.80	ug/Kg
78-93-3	2-Butanone	7.70	U	7.70	33.8	ug/Kg
56-23-5	Carbon Tetrachloride	1.20	U	1.20	6.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.82	U	0.82	6.80	ug/Kg
67-66-3	Chloroform	0.91	U	0.91	6.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	6.80	ug/Kg
108-87-2	Methylcyclohexane	1.20	U	1.20	6.80	ug/Kg
71-43-2	Benzene	0.97	U	0.97	6.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.82	U	0.82	6.80	ug/Kg
79-01-6	Trichloroethene	1.00	U	1.00	6.80	ug/Kg
75-27-4	Bromodichloromethane	0.76	U	0.76	6.80	ug/Kg
108-88-3	Toluene	0.91	U	0.91	6.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.80	ug/Kg
124-48-1	Dibromochloromethane	0.88	U	0.88	6.80	ug/Kg
127-18-4	Tetrachloroethene	1.20	U	1.20	6.80	ug/Kg
108-90-7	Chlorobenzene	1.00	U	1.00	6.80	ug/Kg
100-41-4	Ethyl Benzene	0.84	U	0.84	6.80	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-10	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	57.2
Sample Wt/Vol:	6.47 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019204.D	1		08/22/24 06:57	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1330-20-7	Total Xylenes	2.75	U	2.75	20.3	ug/Kg
179601-23-1	m/p-Xylenes	1.80	U	1.80	13.5	ug/Kg
95-47-6	o-Xylene	0.95	U	0.95	6.80	ug/Kg
98-82-8	Isopropylbenzene	0.91	U	0.91	6.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.10	U	1.10	6.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.80	U	0.80	6.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	18.0	*	70 (50) - 130 (163)	36%	SPK: 50
1868-53-7	Dibromofluoromethane	39.2		70 (54) - 130 (147)	78%	SPK: 50
2037-26-5	Toluene-d8	41.8		70 (58) - 130 (134)	84%	SPK: 50
460-00-4	4-Bromofluorobenzene	8.40	*	70 (29) - 130 (146)	17%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	6800	7.713			
540-36-3	1,4-Difluorobenzene	8010	8.609			
3114-55-4	Chlorobenzene-d5	3520	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	302	13.352			

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_Y\Data\VY082124\
Data File : VY019204.D
Acq On : 22 Aug 2024 06:57
Operator : SY/MD
Sample : P3671-10
Misc : 6.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0.5-1-081924

Quant Time: Aug 22 07:26:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

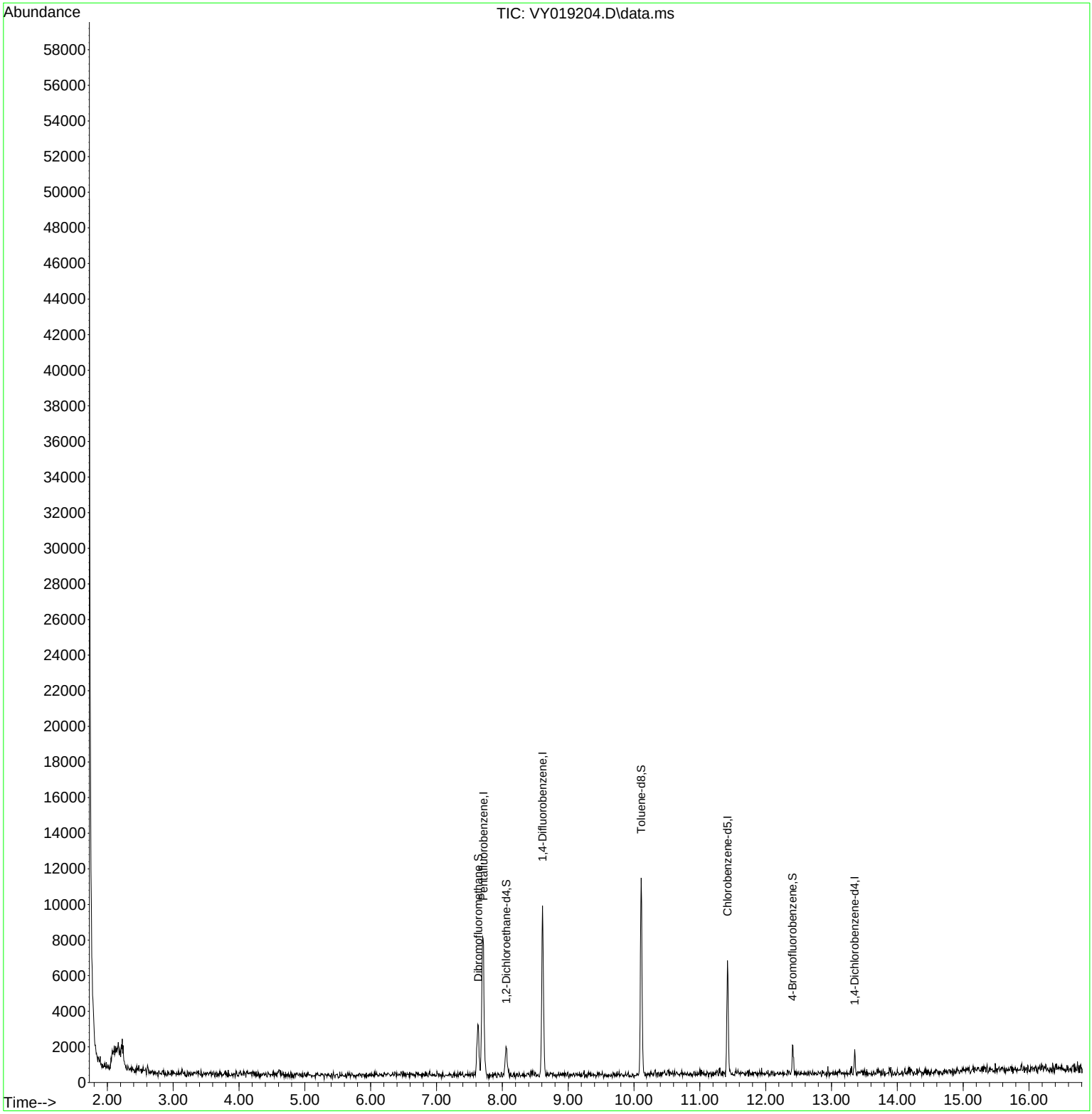
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	6799	50.000	ug/l	0.02
34) 1,4-Difluorobenzene	8.609	114	8008	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	3518	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	302	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	1229	18.033	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	36.060%#		
35) Dibromofluoromethane	7.634	113	2053	39.209	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	78.420%		
50) Toluene-d8	10.109	98	7873	41.782	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	83.560%		
62) 4-Bromofluorobenzene	12.407	95	542	8.438	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	16.880%#		
Target Compounds						Qvalue

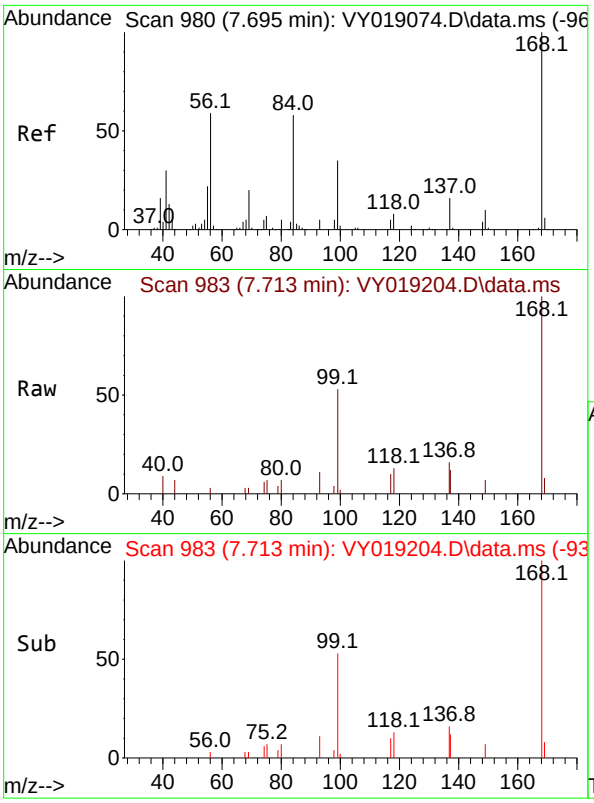
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019204.D
Acq On : 22 Aug 2024 06:57
Operator : SY/MD
Sample : P3671-10
Misc : 6.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0.5-1-081924

Quant Time: Aug 22 07:26:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



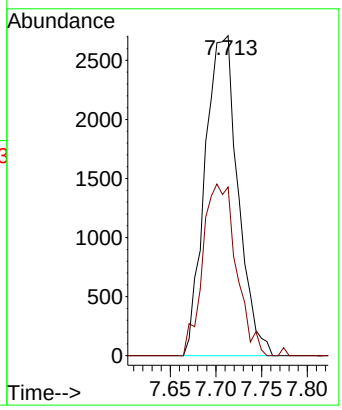


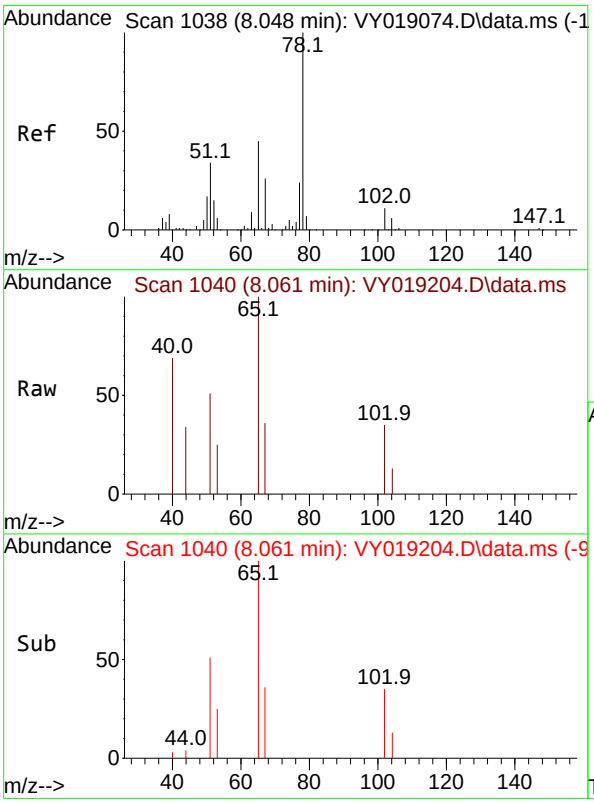
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.018 min
Lab File: VY019204.D
Acq: 22 Aug 2024 06:57

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0.5-1-081924

Tgt Ion:168 Resp: 6799

Ion	Ratio	Lower	Upper
168	100		
99	52.7	39.1	58.7

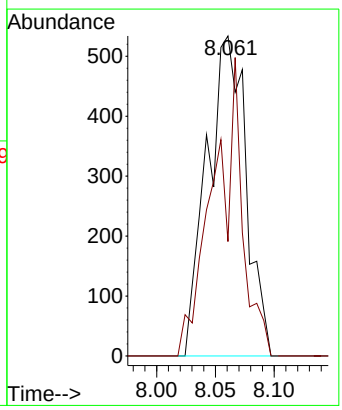


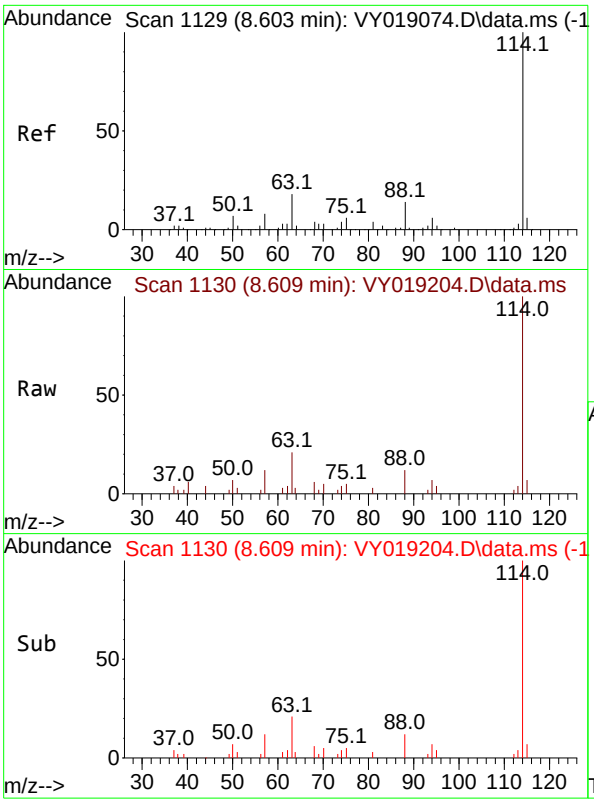


#33
1,2-Dichloroethane-d4
Concen: 18.033 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.012 min
Lab File: VY019204.D
Acq: 22 Aug 2024 06:57

Tgt Ion: 65 Resp: 1229

Ion	Ratio	Lower	Upper
65	100		
67	40.9	0.0	109.6



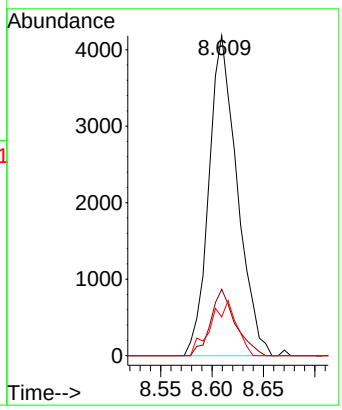


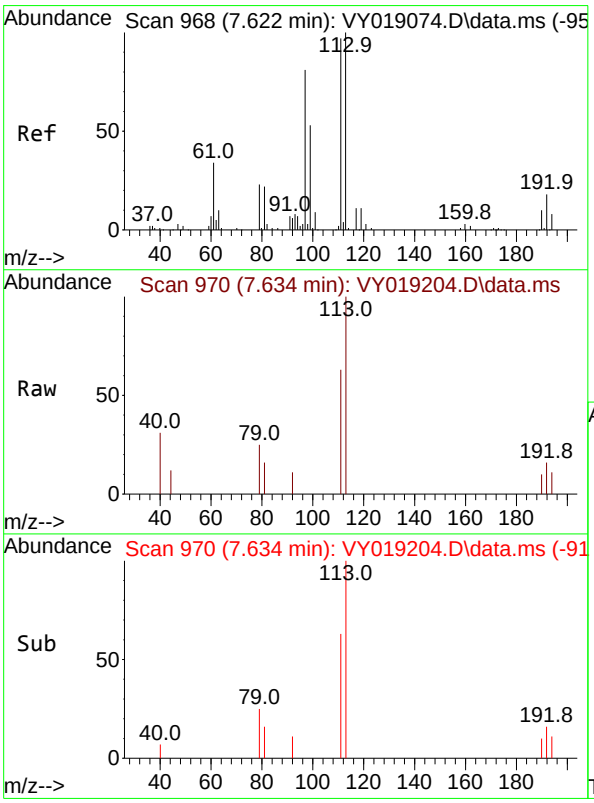
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019204.D
Acq: 22 Aug 2024 06:57

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0.5-1-081924

Tgt Ion:114 Resp: 8008

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	35.0
88	12.1	0.0	27.2

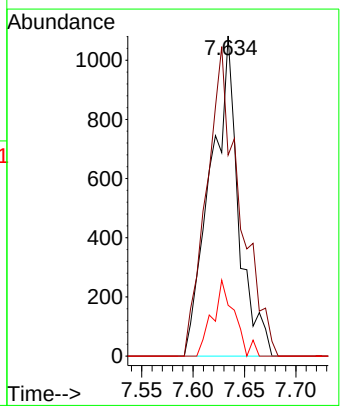


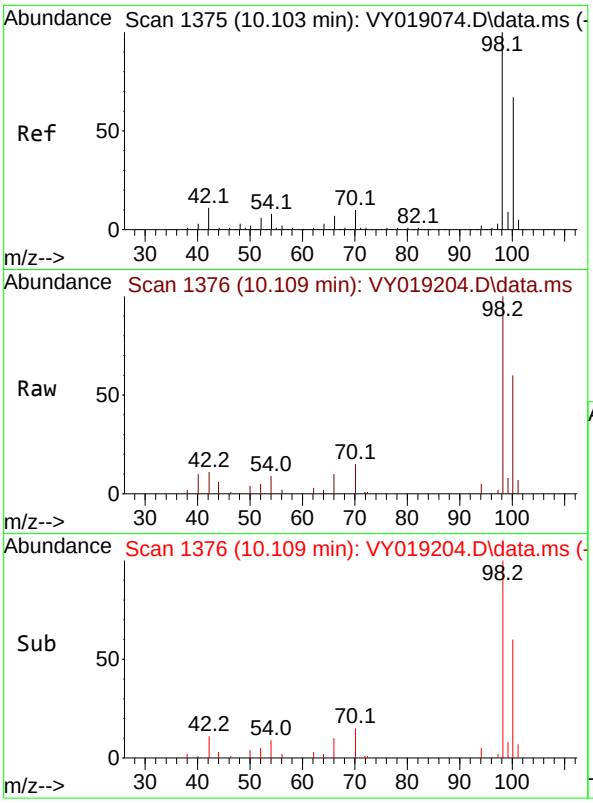


#35
Dibromofluoromethane
Concen: 39.209 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.012 min
Lab File: VY019204.D
Acq: 22 Aug 2024 06:57

Tgt Ion:113 Resp: 2053

Ion	Ratio	Lower	Upper
113	100		
111	113.6	82.2	123.4
192	18.6	15.9	23.9



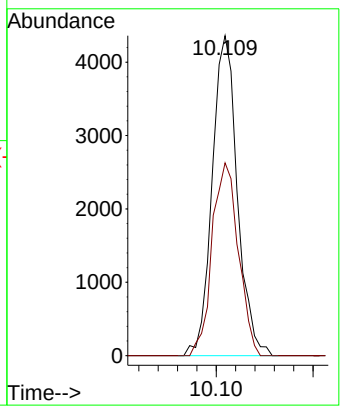


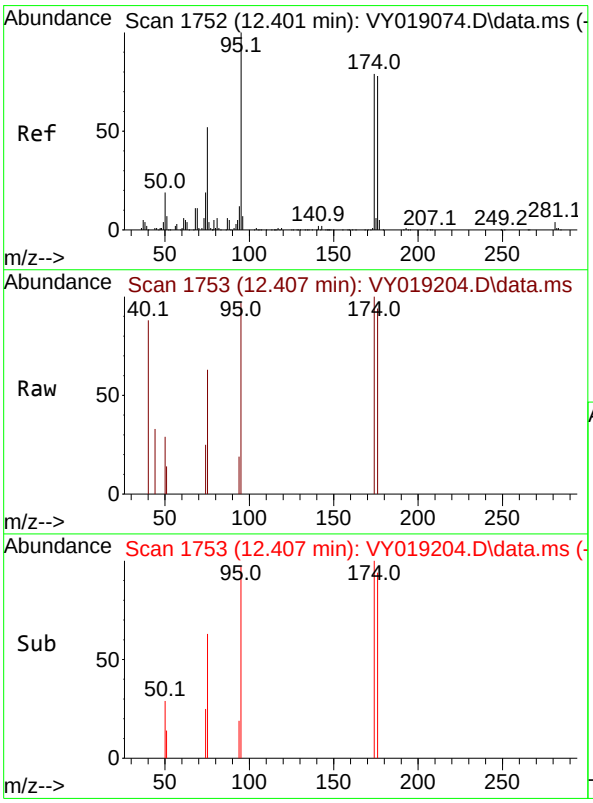
#50
Toluene-d8
Concen: 41.782 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019204.D
Acq: 22 Aug 2024 06:57

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0.5-1-081924

Tgt Ion: 98 Resp: 7873

Ion	Ratio	Lower	Upper
98	100		
100	62.8	52.0	78.0

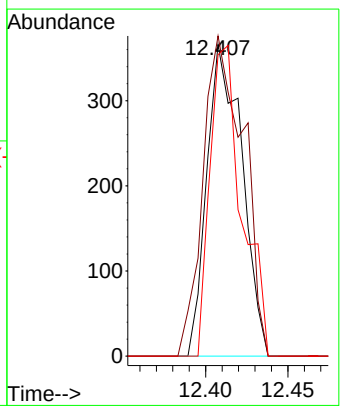


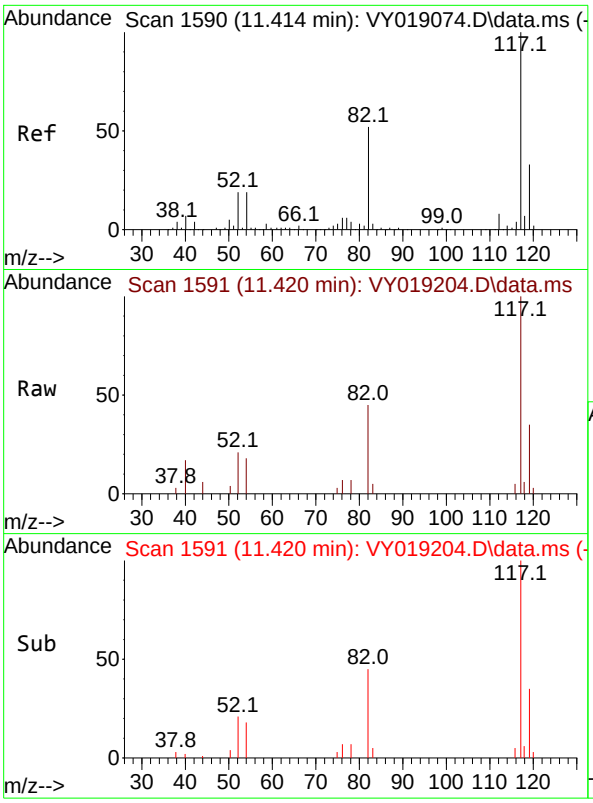


#62
4-Bromofluorobenzene
Concen: 8.438 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019204.D
Acq: 22 Aug 2024 06:57

Tgt Ion: 95 Resp: 542

Ion	Ratio	Lower	Upper
95	100		
174	118.5	0.0	175.6
176	90.6	0.0	171.4



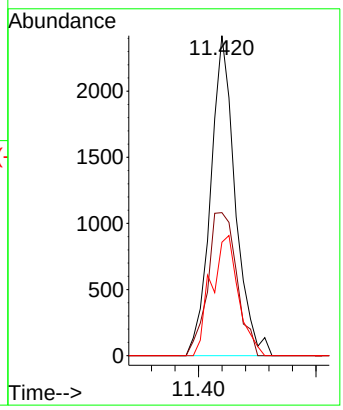


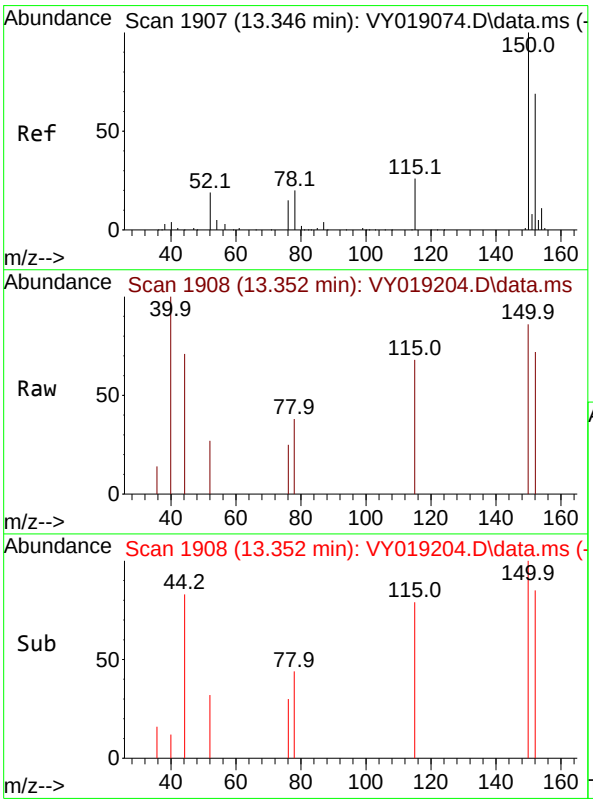
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019204.D
Acq: 22 Aug 2024 06:57

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0.5-1-081924

Tgt Ion:117 Resp: 3518

Ion	Ratio	Lower	Upper
117	100		
82	44.7	42.4	63.6
119	35.5	25.9	38.9

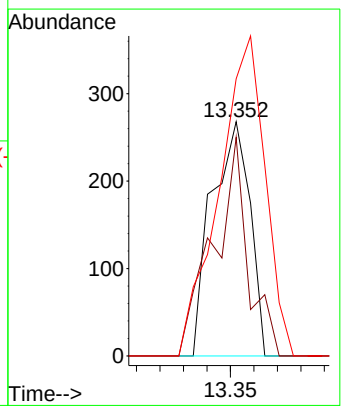




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019204.D
Acq: 22 Aug 2024 06:57

Tgt Ion:152 Resp: 302

Ion	Ratio	Lower	Upper
152	100		
115	84.1	28.2	84.7
150	164.9	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0.5-1-081924RE	SDG No.:	P3671
Lab Sample ID:	P3671-10RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	57.2
Sample Wt/Vol:	4.77 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019228.D	1		08/22/24 18:22	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	3.00	U	3.00	9.20	ug/Kg
74-87-3	Chloromethane	2.10	U	2.10	9.20	ug/Kg
75-01-4	Vinyl Chloride	1.40	U	1.40	9.20	ug/Kg
74-83-9	Bromomethane	1.90	U	1.90	9.20	ug/Kg
75-00-3	Chloroethane	1.90	U	1.90	9.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.00	U	2.00	9.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.40	U	1.40	9.20	ug/Kg
67-64-1	Acetone	11.4	U	11.4	45.8	ug/Kg
75-15-0	Carbon Disulfide	2.30	U	2.30	9.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.20	U	1.20	9.20	ug/Kg
75-09-2	Methylene Chloride	6.20	U	6.20	18.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.50	U	1.50	9.20	ug/Kg
75-34-3	1,1-Dichloroethane	1.20	U	1.20	9.20	ug/Kg
110-82-7	Cyclohexane	1.30	U	1.30	9.20	ug/Kg
78-93-3	2-Butanone	10.4	U	10.4	45.8	ug/Kg
56-23-5	Carbon Tetrachloride	1.60	U	1.60	9.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.10	U	1.10	9.20	ug/Kg
67-66-3	Chloroform	1.20	U	1.20	9.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.40	U	1.40	9.20	ug/Kg
108-87-2	Methylcyclohexane	1.60	U	1.60	9.20	ug/Kg
71-43-2	Benzene	1.30	U	1.30	9.20	ug/Kg
107-06-2	1,2-Dichloroethane	1.10	U	1.10	9.20	ug/Kg
79-01-6	Trichloroethene	1.40	U	1.40	9.20	ug/Kg
75-27-4	Bromodichloromethane	1.00	U	1.00	9.20	ug/Kg
108-88-3	Toluene	1.20	U	1.20	9.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.50	U	1.50	9.20	ug/Kg
124-48-1	Dibromochloromethane	1.20	U	1.20	9.20	ug/Kg
127-18-4	Tetrachloroethene	1.60	U	1.60	9.20	ug/Kg
108-90-7	Chlorobenzene	1.40	U	1.40	9.20	ug/Kg
100-41-4	Ethyl Benzene	1.10	U	1.10	9.20	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0.5-1-081924RE	SDG No.:	P3671
Lab Sample ID:	P3671-10RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	57.2
Sample Wt/Vol:	4.77 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019228.D	1		08/22/24 18:22	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1330-20-7	Total Xylenes	3.80	U	3.80	27.5	ug/Kg
179601-23-1	m/p-Xylenes	2.50	U	2.50	18.3	ug/Kg
95-47-6	o-Xylene	1.30	U	1.30	9.20	ug/Kg
98-82-8	Isopropylbenzene	1.20	U	1.20	9.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	9.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	9.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.0		70 (50) - 130 (163)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		70 (54) - 130 (147)	96%	SPK: 50
2037-26-5	Toluene-d8	47.5		70 (58) - 130 (134)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	34.3	*	70 (29) - 130 (146)	69%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	72700	7.701			
540-36-3	1,4-Difluorobenzene	131000	8.609			
3114-55-4	Chlorobenzene-d5	108000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	28700	13.346			

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_Y\Data\VY082224\
Data File : VY019228.D
Acq On : 22 Aug 2024 18:22
Operator : SY/MD
Sample : P3671-10RE
Misc : 4.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0.5-1-081924RE

Quant Time: Aug 23 01:56:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

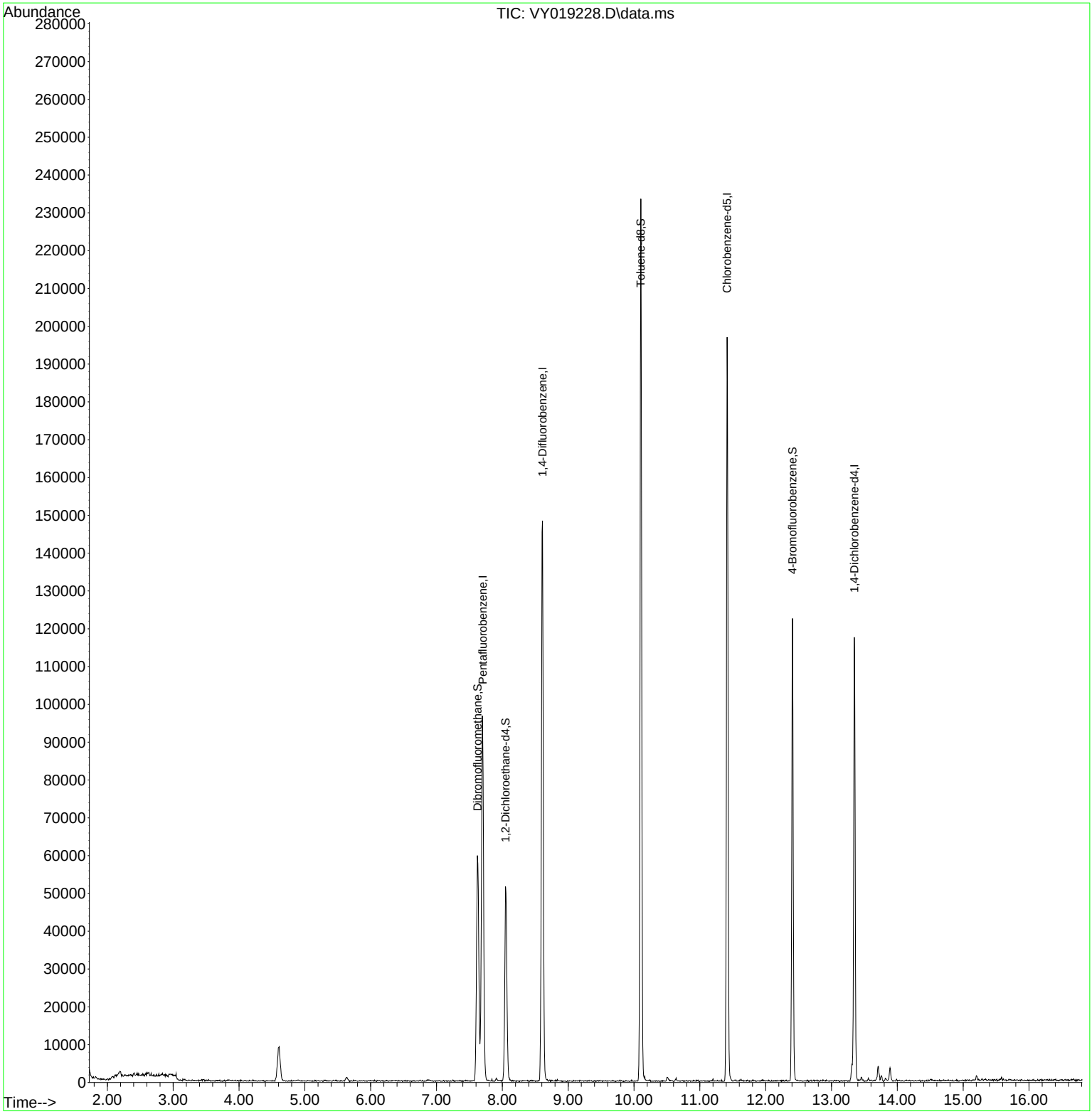
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	72721	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	130689	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	107586	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	28694	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.049	65	39388	54.032	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.060%			
35) Dibromofluoromethane	7.622	113	40924	47.891	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.780%			
50) Toluene-d8	10.103	98	146165	47.531	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.060%			
62) 4-Bromofluorobenzene	12.408	95	35936	34.280	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 68.560%			
Target Compounds						Qvalue

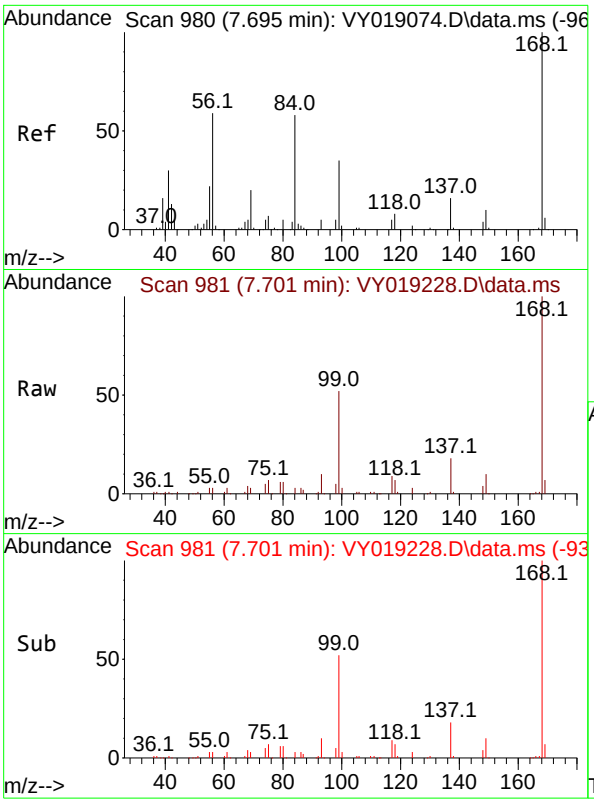
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019228.D
Acq On : 22 Aug 2024 18:22
Operator : SY/MD
Sample : P3671-10RE
Misc : 4.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0.5-1-081924RE

Quant Time: Aug 23 01:56:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



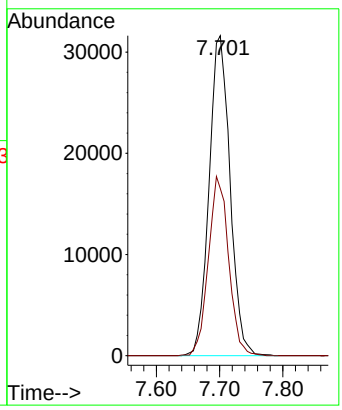


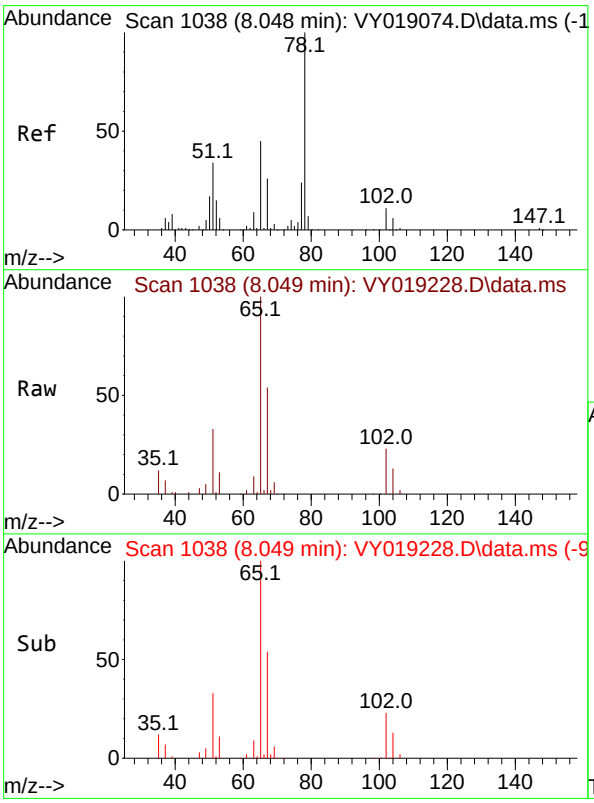
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019228.D
Acq: 22 Aug 2024 18:22

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0.5-1-081924RE

Tgt Ion:168 Resp: 72721

Ion	Ratio	Lower	Upper
168	100		
99	52.2	39.1	58.7

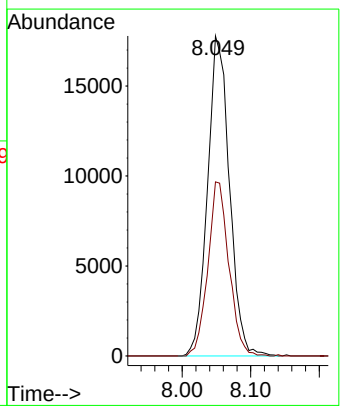


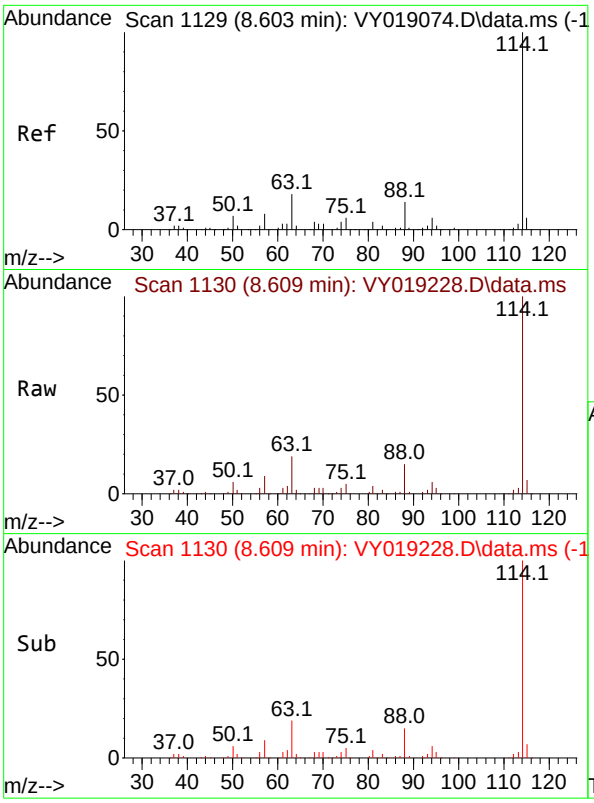


#33
1,2-Dichloroethane-d4
Concen: 54.032 ug/l
RT: 8.049 min Scan# 1038
Delta R.T. 0.000 min
Lab File: VY019228.D
Acq: 22 Aug 2024 18:22

Tgt Ion: 65 Resp: 39388

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	109.6



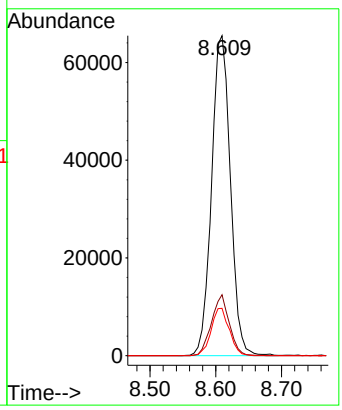


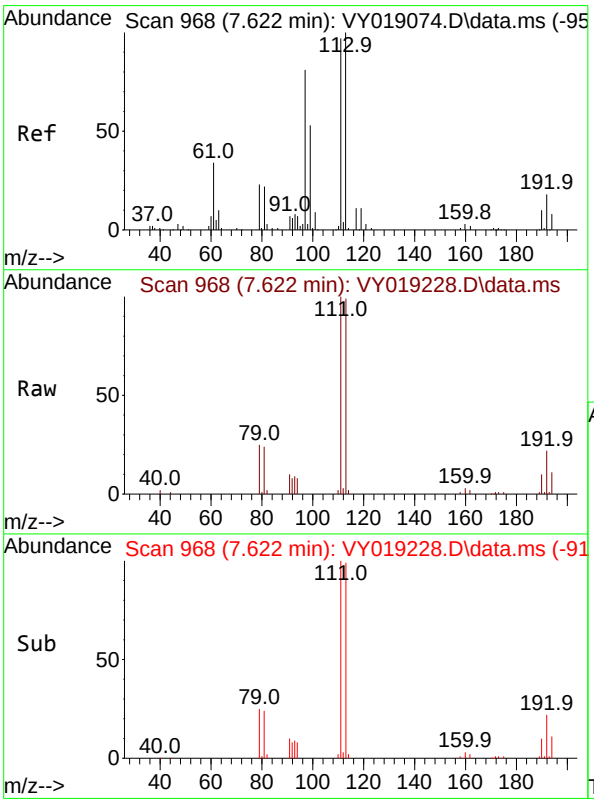
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019228.D
Acq: 22 Aug 2024 18:22

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0.5-1-081924RE

Tgt Ion:114 Resp: 130689

Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	35.0
88	14.8	0.0	27.2

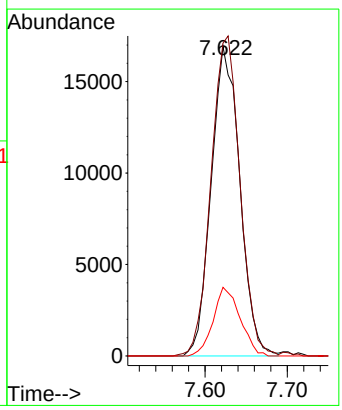


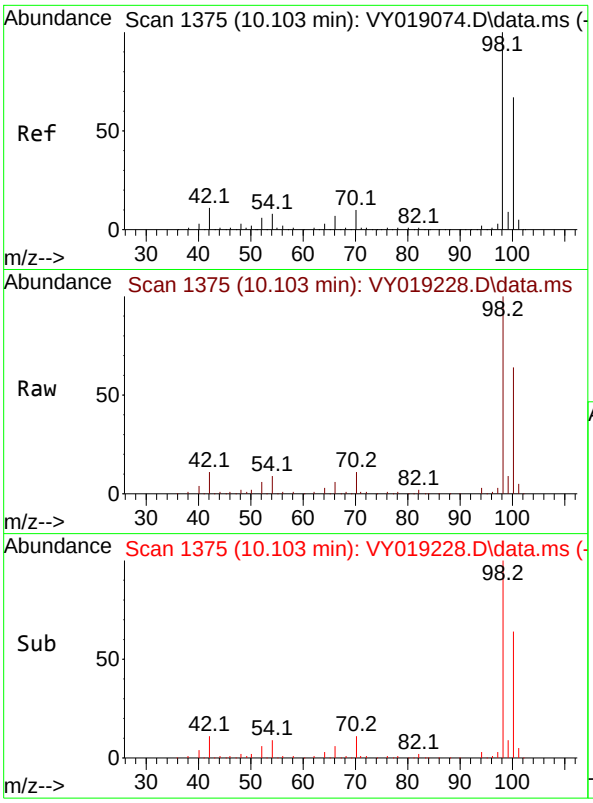


#35
Dibromofluoromethane
Concen: 47.891 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY019228.D
Acq: 22 Aug 2024 18:22

Tgt Ion:113 Resp: 40924

Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.2	123.4
192	20.8	15.9	23.9



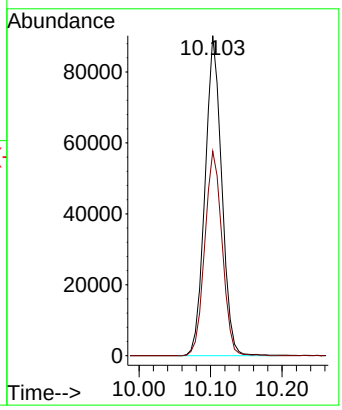


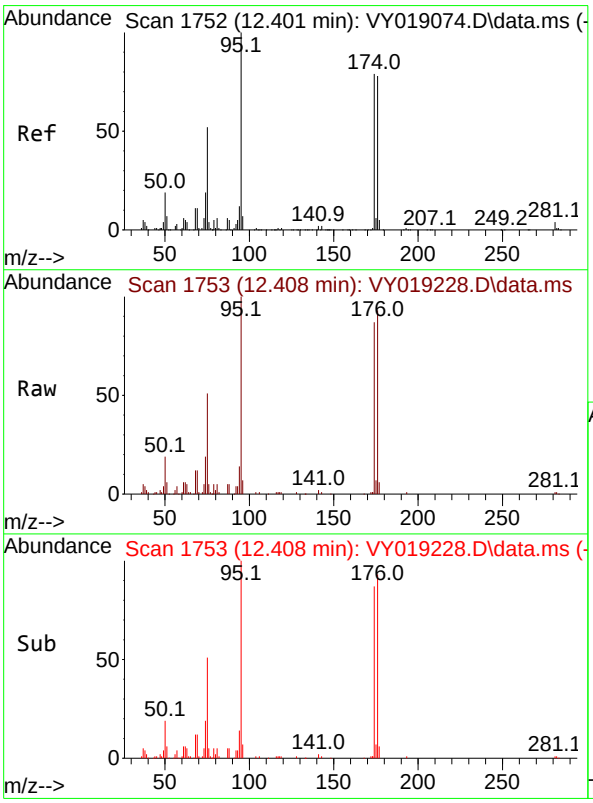
#50
Toluene-d8
Concen: 47.531 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019228.D
Acq: 22 Aug 2024 18:22

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0.5-1-081924RE

Tgt Ion: 98 Resp: 146165

Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.0	78.0

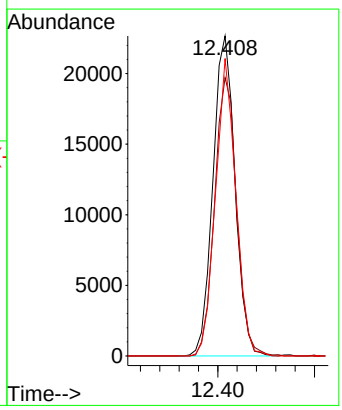


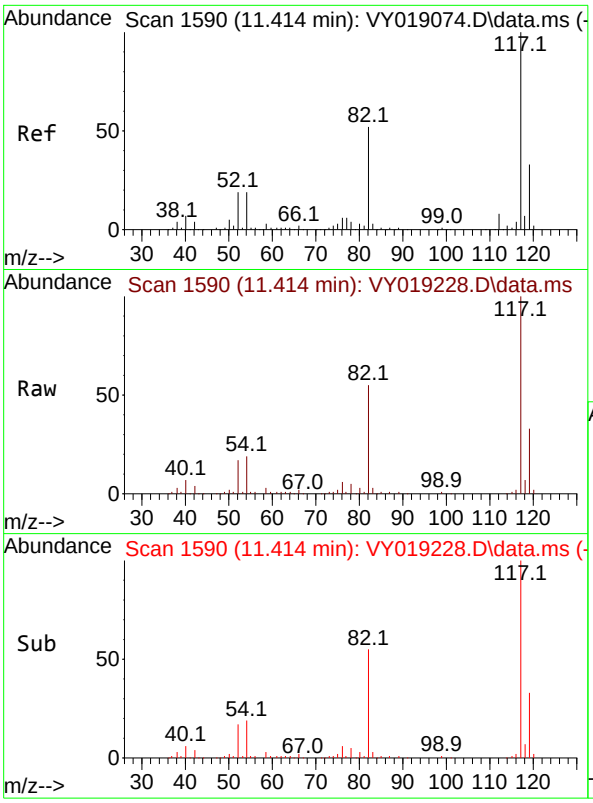


#62
4-Bromofluorobenzene
Concen: 34.280 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019228.D
Acq: 22 Aug 2024 18:22

Tgt Ion: 95 Resp: 35936

Ion	Ratio	Lower	Upper
95	100		
174	86.9	0.0	175.6
176	85.6	0.0	171.4



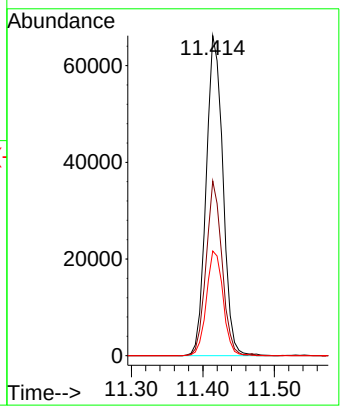


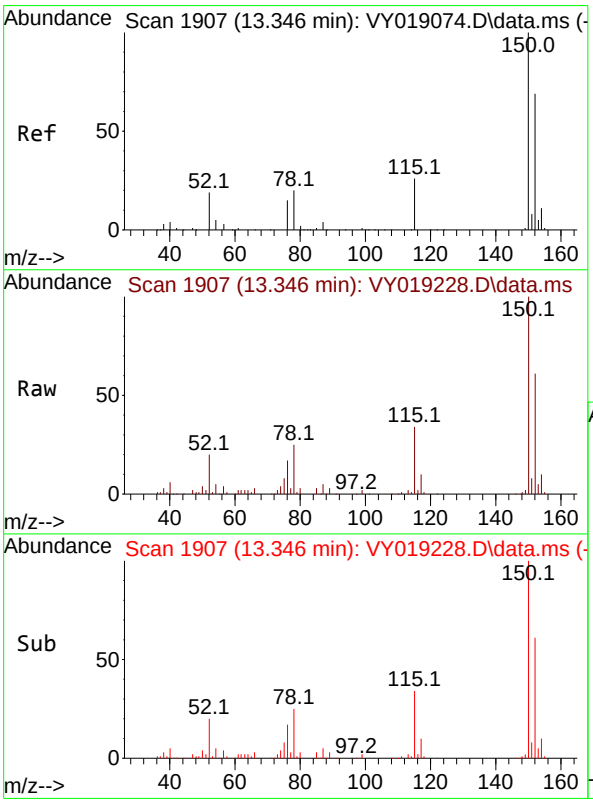
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019228.D
Acq: 22 Aug 2024 18:22

Instrument :
MSVOA_Y
ClientSampleId :
S-928-K1-SO-0.5-1-081924RE

Tgt Ion:117 Resp: 107586

Ion	Ratio	Lower	Upper
117	100		
82	54.6	42.4	63.6
119	32.7	25.9	38.9

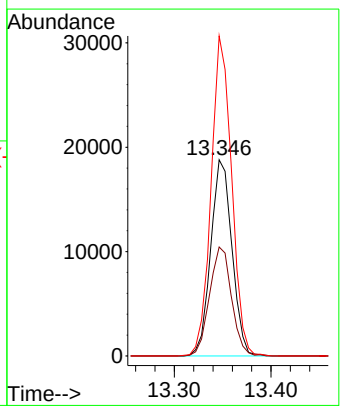




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019228.D
Acq: 22 Aug 2024 18:22

Tgt Ion:152 Resp: 28694

Ion	Ratio	Lower	Upper
152	100		
115	57.4	28.2	84.7
150	157.4	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-903-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-11	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83.5
Sample Wt/Vol:	7.77 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019205.D	1		08/22/24 07:21	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	3.90	ug/Kg
74-87-3	Chloromethane	0.89	U	0.89	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.59	U	0.59	3.90	ug/Kg
74-83-9	Bromomethane	0.79	U	0.79	3.90	ug/Kg
75-00-3	Chloroethane	0.78	U	0.78	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.82	U	0.82	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.60	U	0.60	3.90	ug/Kg
67-64-1	Acetone	4.80	U	4.80	19.3	ug/Kg
75-15-0	Carbon Disulfide	0.99	U	0.99	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.52	U	0.52	3.90	ug/Kg
75-09-2	Methylene Chloride	2.60	U	2.60	7.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.65	U	0.65	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.49	U	0.49	3.90	ug/Kg
110-82-7	Cyclohexane	0.53	U	0.53	3.90	ug/Kg
78-93-3	2-Butanone	4.40	U	4.40	19.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.67	U	0.67	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.47	U	0.47	3.90	ug/Kg
67-66-3	Chloroform	0.52	U	0.52	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.60	U	0.60	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.67	U	0.67	3.90	ug/Kg
71-43-2	Benzene	0.55	U	0.55	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.47	U	0.47	3.90	ug/Kg
79-01-6	Trichloroethene	1.10	J	0.58	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.43	U	0.43	3.90	ug/Kg
108-88-3	Toluene	0.52	U	0.52	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.65	U	0.65	3.90	ug/Kg
124-48-1	Dibromochloromethane	0.50	U	0.50	3.90	ug/Kg
127-18-4	Tetrachloroethene	1.40	J	0.69	3.90	ug/Kg
108-90-7	Chlorobenzene	0.57	U	0.57	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.48	U	0.48	3.90	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-903-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-11	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83.5
Sample Wt/Vol:	7.77 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019205.D	1		08/22/24 07:21	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	1.00	U	1.00	7.70	ug/Kg
1330-20-7	Total Xylenes	1.54	U	1.54	11.6	ug/Kg
95-47-6	o-Xylene	0.54	U	0.54	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.52	U	0.52	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.62	U	0.62	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.45	U	0.45	3.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.0		70 (50) - 130 (163)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	48.4		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		70 (29) - 130 (146)	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	103000	7.701			
540-36-3	1,4-Difluorobenzene	183000	8.61			
3114-55-4	Chlorobenzene-d5	164000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	64400	13.353			

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_Y\Data\VY082124\
Data File : VY019205.D
Acq On : 22 Aug 2024 07:21
Operator : SY/MD
Sample : P3671-11
Misc : 7.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 47 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0-0.5-081924

Quant Time: Aug 22 08:22:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

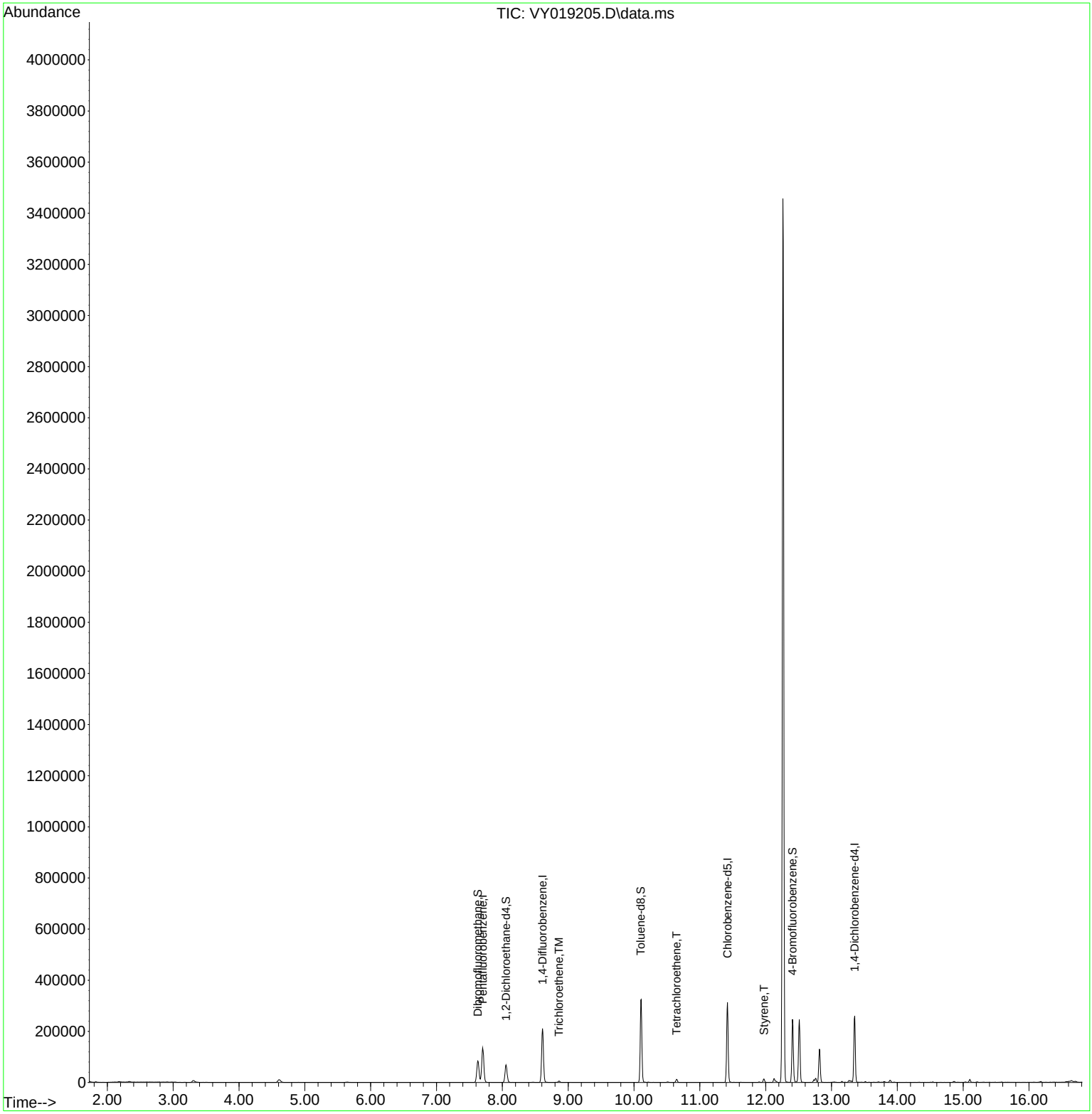
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	103428	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	183434	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	163909	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	64388	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	56020	54.032	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.060%			
35) Dibromofluoromethane	7.628	113	59413	49.536	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.080%			
50) Toluene-d8	10.103	98	208825	48.381	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.760%			
62) 4-Bromofluorobenzene	12.408	95	70924	48.202	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 96.400%			
Target Compounds						Qvalue
44) Trichloroethene	8.860	130	1924	1.365	ug/l	99
64) Tetrachloroethene	10.646	164	2510	1.752	ug/l	92
70) Styrene	11.975	104	6702	1.633	ug/l	88

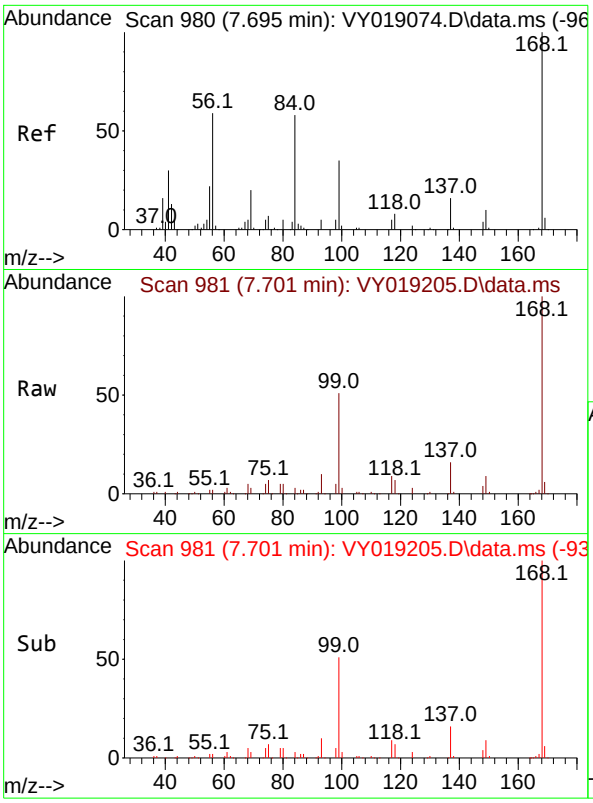
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019205.D
Acq On : 22 Aug 2024 07:21
Operator : SY/MD
Sample : P3671-11
Misc : 7.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 47 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0-0.5-081924

Quant Time: Aug 22 08:22:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



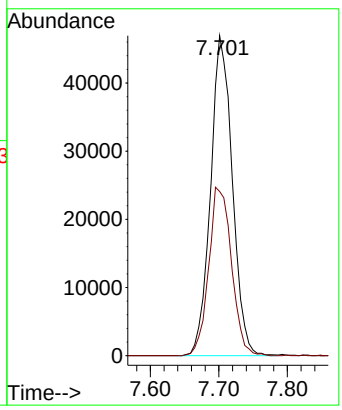


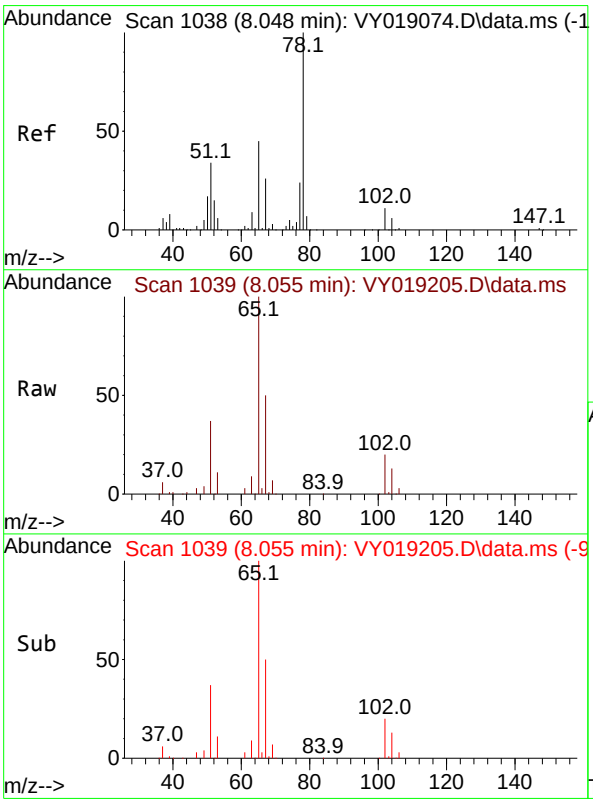
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019205.D
Acq: 22 Aug 2024 07:21

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0-0.5-081924

Tgt Ion:168 Resp: 103428

Ion	Ratio	Lower	Upper
168	100		
99	51.3	39.1	58.7

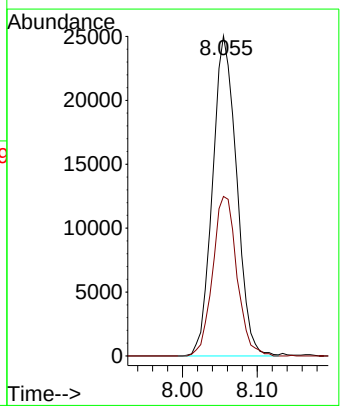


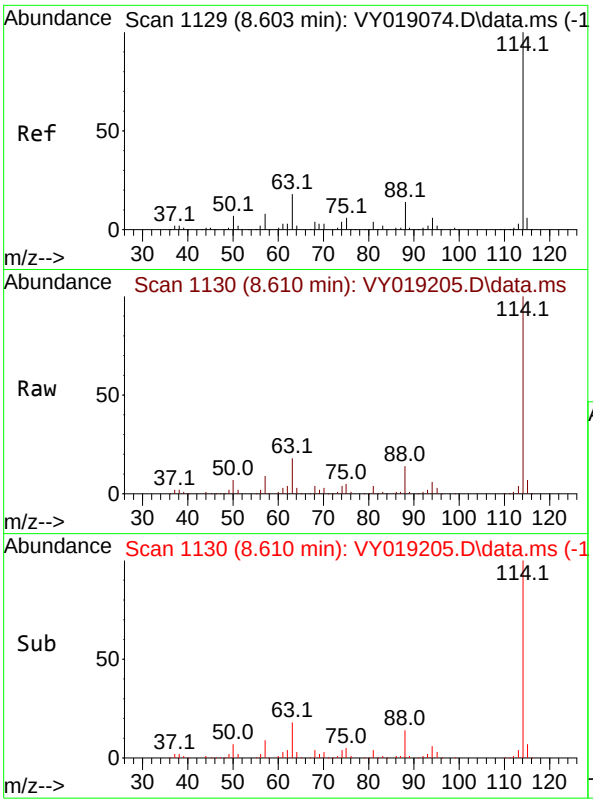


#33
1,2-Dichloroethane-d4
Concen: 54.032 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019205.D
Acq: 22 Aug 2024 07:21

Tgt Ion: 65 Resp: 56020

Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	109.6



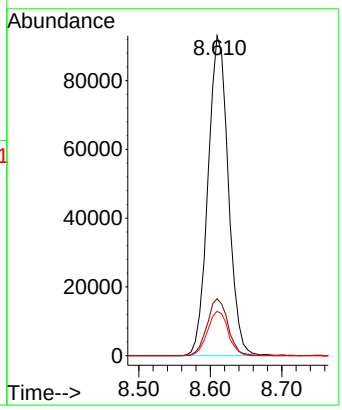


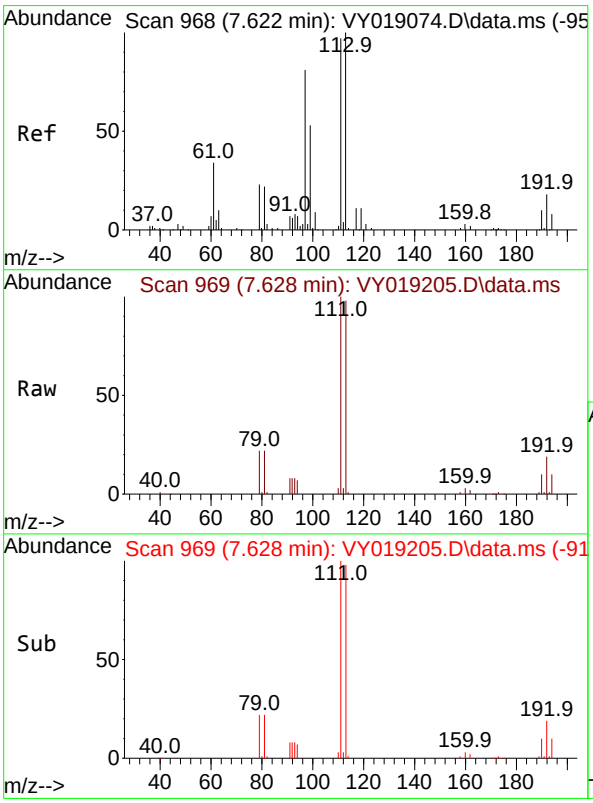
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019205.D
Acq: 22 Aug 2024 07:21

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0-0.5-081924

Tgt Ion:114 Resp: 183434

Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	35.0
88	13.8	0.0	27.2

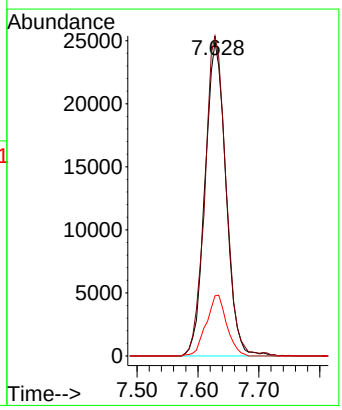


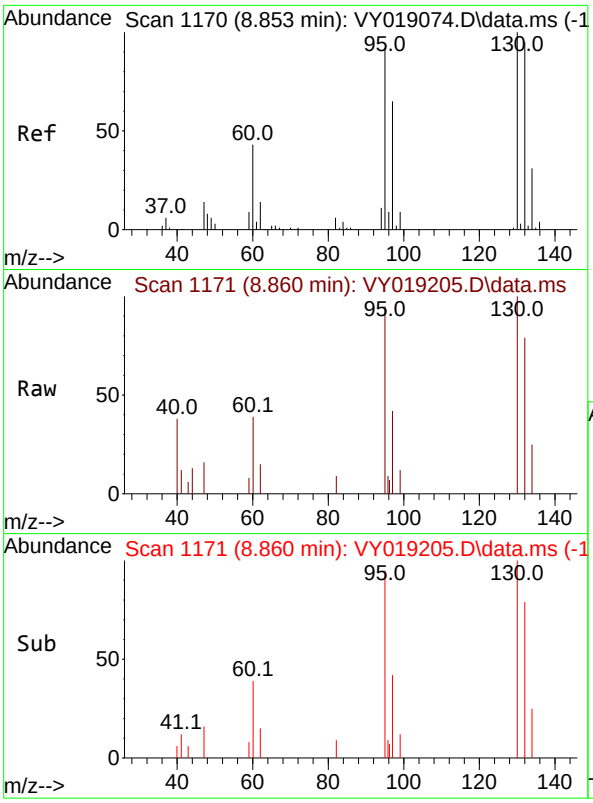


#35
Dibromofluoromethane
Concen: 49.536 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY019205.D
Acq: 22 Aug 2024 07:21

Tgt Ion:113 Resp: 59413

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.2	123.4
192	18.9	15.9	23.9



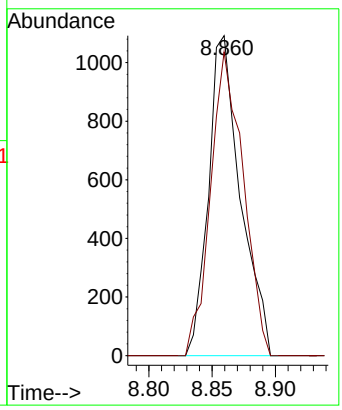


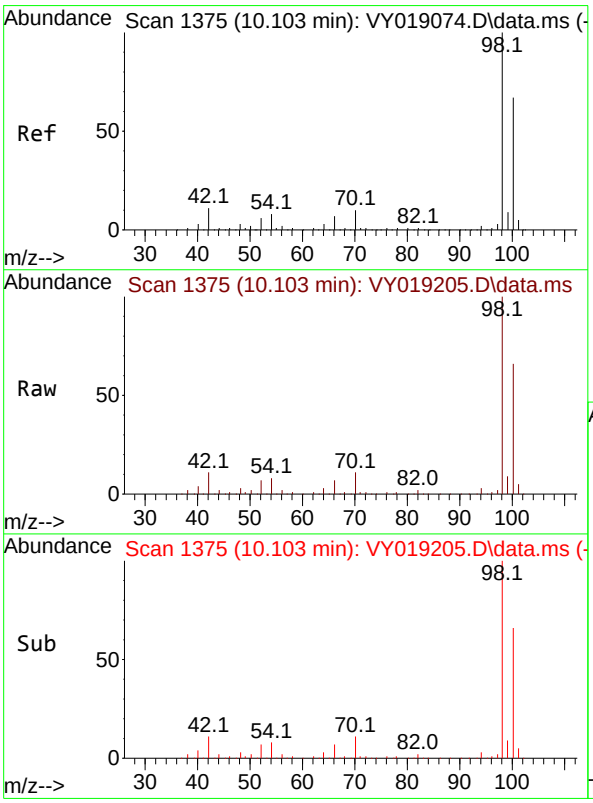
#44
Trichloroethene
Concen: 1.365 ug/l
RT: 8.860 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019205.D
Acq: 22 Aug 2024 07:21

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0-0.5-081924

Tgt Ion:130 Resp: 1924

Ion	Ratio	Lower	Upper
130	100		
95	95.0	0.0	188.0

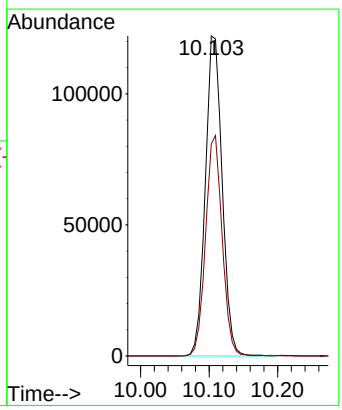


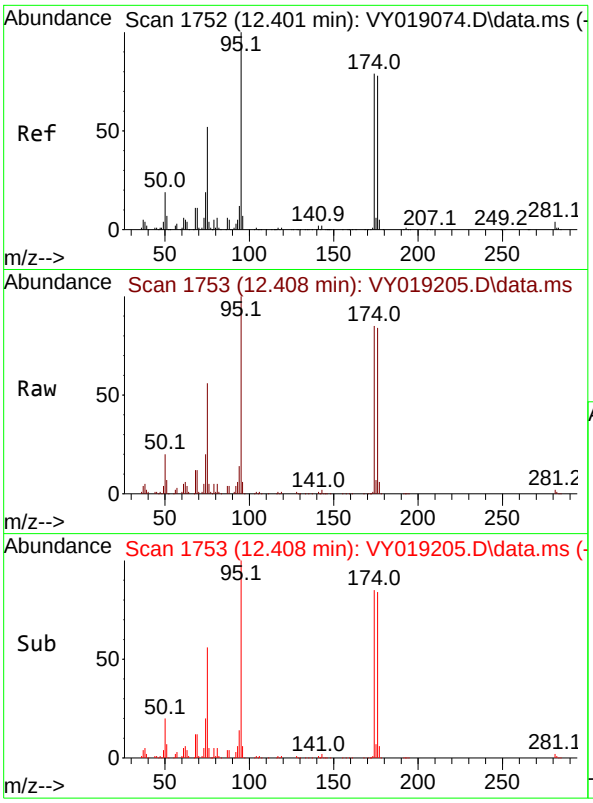


#50
Toluene-d8
Concen: 48.381 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY019205.D
Acq: 22 Aug 2024 07:21

Tgt Ion: 98 Resp: 208825

Ion	Ratio	Lower	Upper
98	100		
100	67.6	52.0	78.0



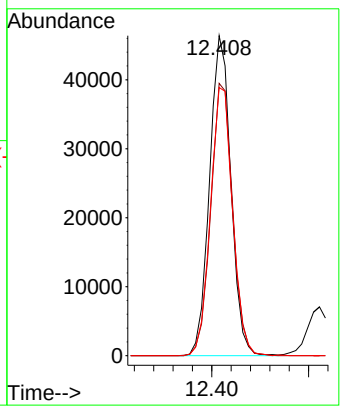


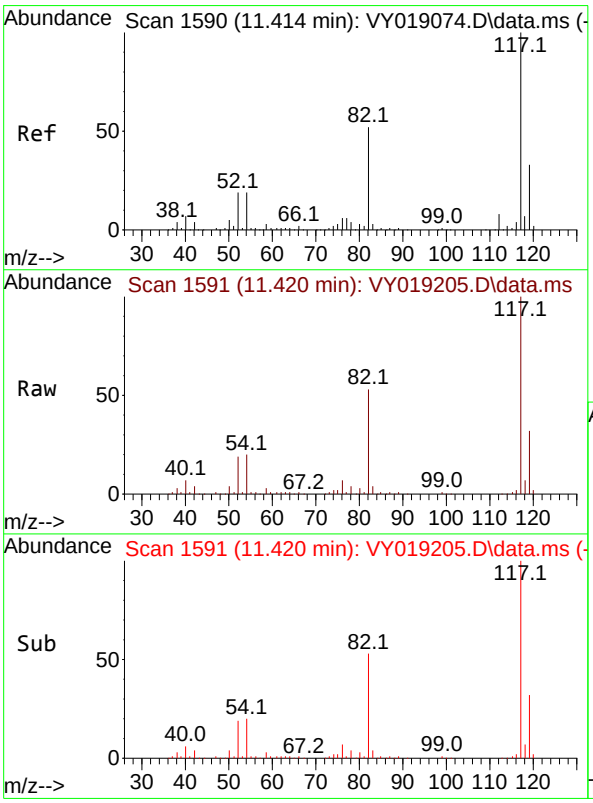
#62
4-Bromofluorobenzene
Concen: 48.202 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019205.D
Acq: 22 Aug 2024 07:21

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0-0.5-081924

Tgt Ion: 95 Resp: 70924

Ion	Ratio	Lower	Upper
95	100		
174	87.2	0.0	175.6
176	87.2	0.0	171.4

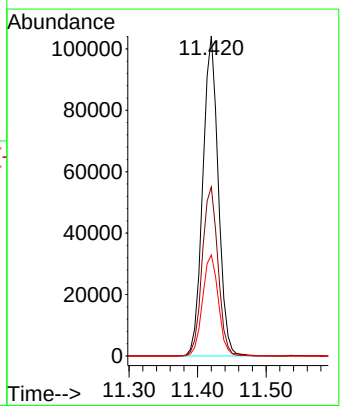


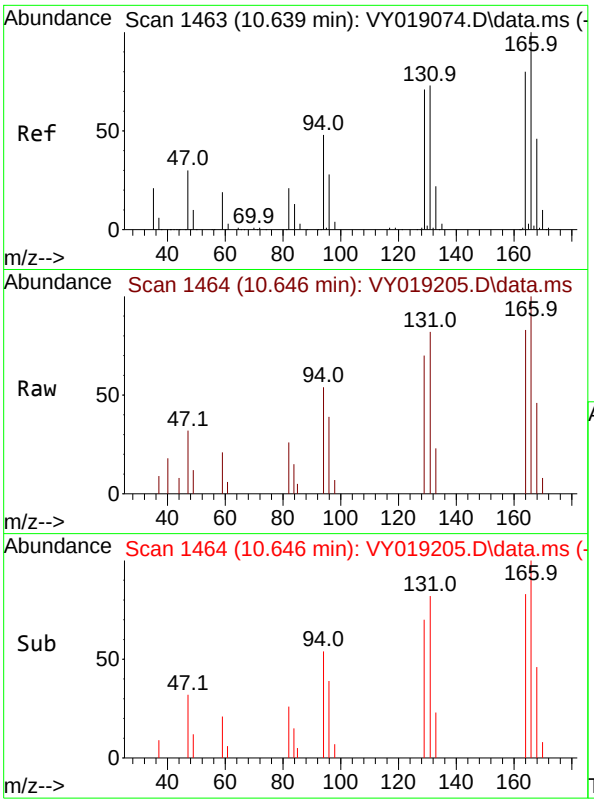


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY019205.D
Acq: 22 Aug 2024 07:21

Tgt Ion:117 Resp: 163909

Ion	Ratio	Lower	Upper
117	100		
82	52.8	42.4	63.6
119	31.6	25.9	38.9



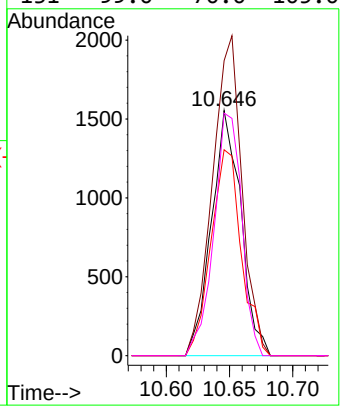


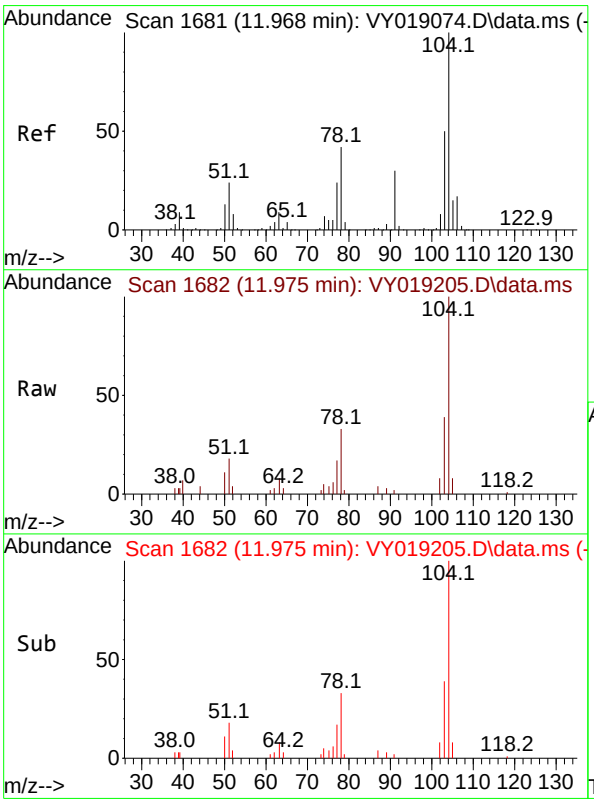
#64
Tetrachloroethene
Concen: 1.752 ug/l
RT: 10.646 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019205.D
Acq: 22 Aug 2024 07:21

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0-0.5-081924

Tgt Ion:164 Resp: 2510

Ion	Ratio	Lower	Upper
164	100		
166	120.4	102.6	154.0
129	84.0	72.0	108.0
131	99.0	70.0	105.0

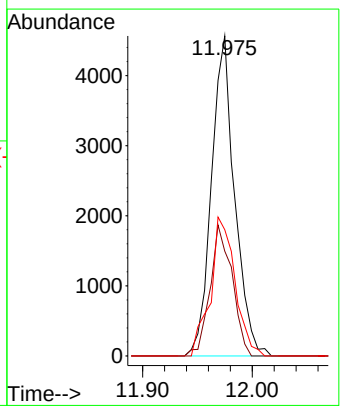


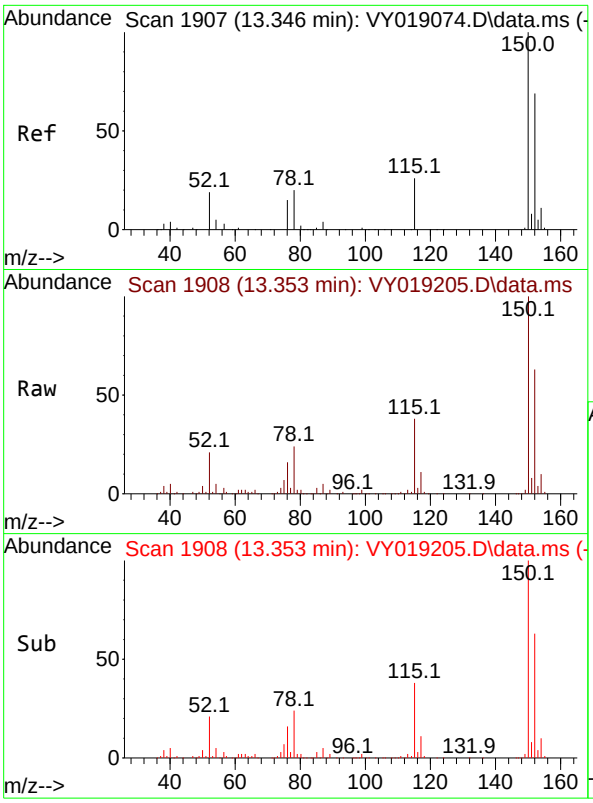


#70
Styrene
Concen: 1.633 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY019205.D
Acq: 22 Aug 2024 07:21

Tgt Ion:104 Resp: 6702

Ion	Ratio	Lower	Upper
104	100		
78	39.0	37.0	55.4
103	46.0	44.2	66.2



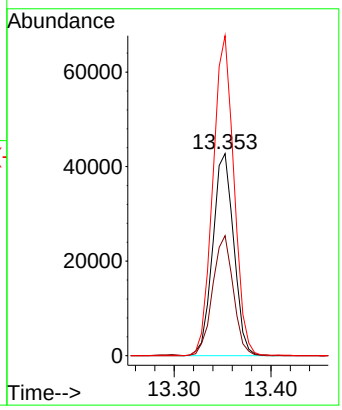


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019205.D
Acq: 22 Aug 2024 07:21

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0-0.5-081924

Tgt Ion:152 Resp: 64388

Ion	Ratio	Lower	Upper
152	100		
115	58.6	28.2	84.7
150	158.8	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-903-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-12	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.8
Sample Wt/Vol:	8.2 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019206.D	1		08/22/24 07:45	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	3.60	ug/Kg
74-87-3	Chloromethane	0.82	U	0.82	3.60	ug/Kg
75-01-4	Vinyl Chloride	0.55	U	0.55	3.60	ug/Kg
74-83-9	Bromomethane	0.73	U	0.73	3.60	ug/Kg
75-00-3	Chloroethane	0.72	U	0.72	3.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.76	U	0.76	3.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.55	U	0.55	3.60	ug/Kg
67-64-1	Acetone	4.40	U	4.40	17.8	ug/Kg
75-15-0	Carbon Disulfide	0.91	U	0.91	3.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.48	U	0.48	3.60	ug/Kg
75-09-2	Methylene Chloride	2.40	U	2.40	7.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.60	U	0.60	3.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.45	U	0.45	3.60	ug/Kg
110-82-7	Cyclohexane	0.49	U	0.49	3.60	ug/Kg
78-93-3	2-Butanone	4.00	U	4.00	17.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.62	U	0.62	3.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.43	U	0.43	3.60	ug/Kg
67-66-3	Chloroform	0.48	U	0.48	3.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.55	U	0.55	3.60	ug/Kg
108-87-2	Methylcyclohexane	0.62	U	0.62	3.60	ug/Kg
71-43-2	Benzene	0.51	U	0.51	3.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.43	U	0.43	3.60	ug/Kg
79-01-6	Trichloroethene	3.40	J	0.53	3.60	ug/Kg
75-27-4	Bromodichloromethane	0.40	U	0.40	3.60	ug/Kg
108-88-3	Toluene	0.48	U	0.48	3.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.60	U	0.60	3.60	ug/Kg
124-48-1	Dibromochloromethane	0.46	U	0.46	3.60	ug/Kg
127-18-4	Tetrachloroethene	4.00		0.63	3.60	ug/Kg
108-90-7	Chlorobenzene	0.53	U	0.53	3.60	ug/Kg
100-41-4	Ethyl Benzene	0.44	U	0.44	3.60	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-903-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-12	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.8
Sample Wt/Vol:	8.2 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019206.D	1		08/22/24 07:45	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	0.96	U	0.96	7.10	ug/Kg
1330-20-7	Total Xylenes	1.46	U	1.46	10.7	ug/Kg
95-47-6	o-Xylene	0.50	U	0.50	3.60	ug/Kg
98-82-8	Isopropylbenzene	0.48	U	0.48	3.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.57	U	0.57	3.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.42	U	0.42	3.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.0		70 (50) - 130 (163)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	52.2		70 (58) - 130 (134)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		70 (29) - 130 (146)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	7.701			
540-36-3	1,4-Difluorobenzene	169000	8.609			
3114-55-4	Chlorobenzene-d5	158000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	52000	13.352			

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_Y\Data\VY082124\
Data File : VY019206.D
Acq On : 22 Aug 2024 07:45
Operator : SY/MD
Sample : P3671-12
Misc : 8.20g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 48 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0.5-1.0-081924

Quant Time: Aug 22 08:23:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

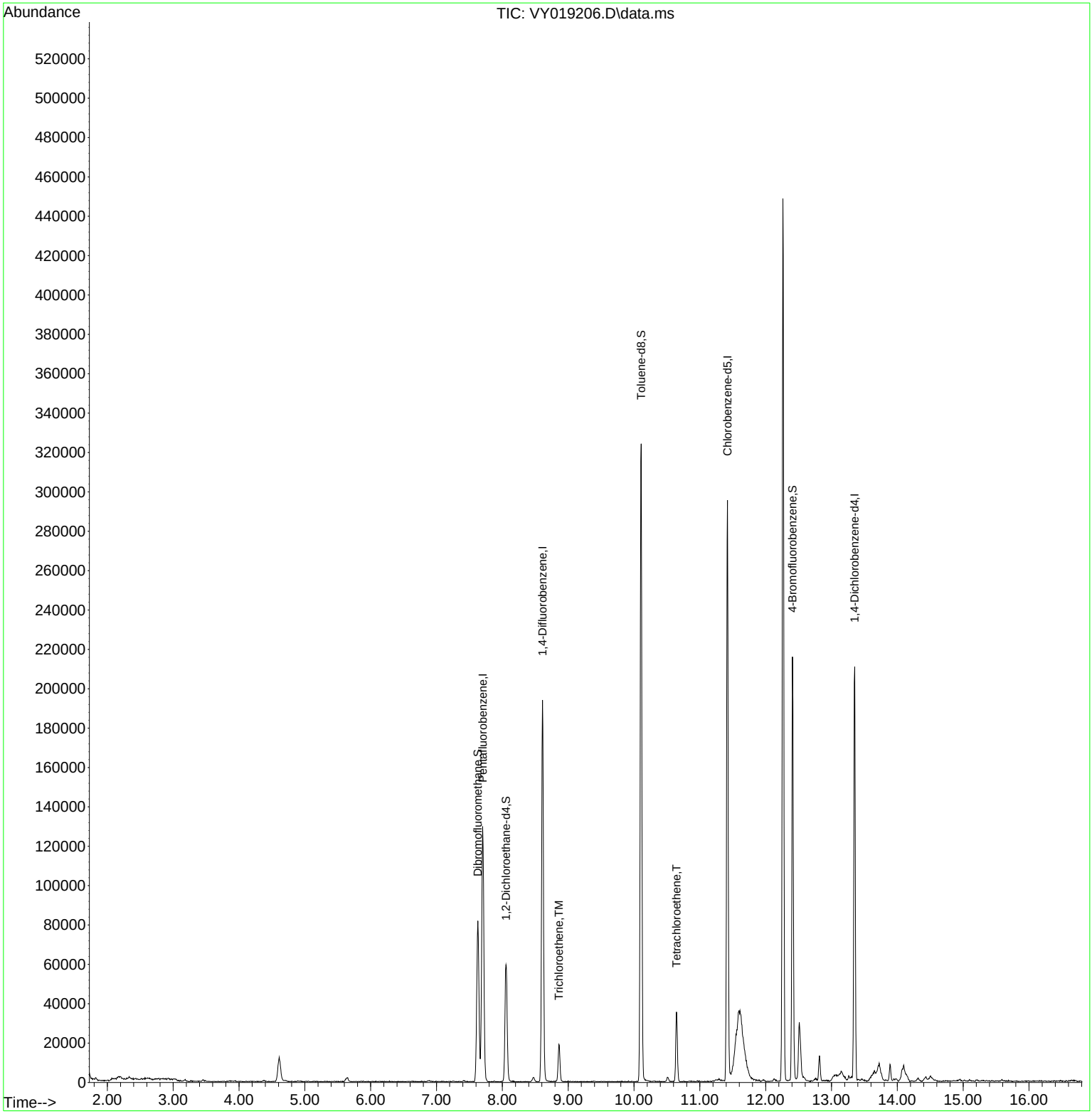
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	101068	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	169287	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	157903	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	51958	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	48637	48.007	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.020%			
35) Dibromofluoromethane	7.628	113	56749	51.268	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.540%			
50) Toluene-d8	10.109	98	207872	52.185	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.380%			
62) 4-Bromofluorobenzene	12.407	95	62827	46.267	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 92.540%			
Target Compounds						Qvalue
44) Trichloroethene	8.859	130	6192	4.760	ug/l	97
64) Tetrachloroethene	10.646	164	7840	5.680	ug/l	99

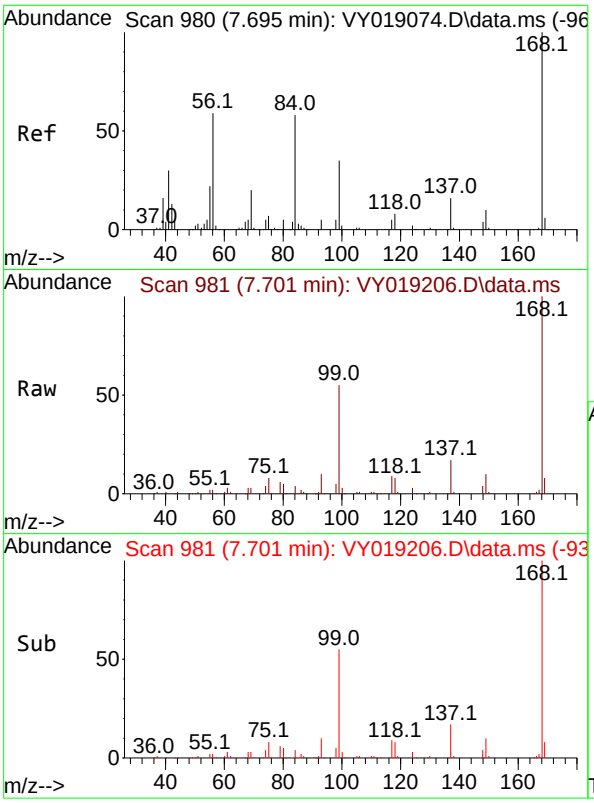
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019206.D
Acq On : 22 Aug 2024 07:45
Operator : SY/MD
Sample : P3671-12
Misc : 8.20g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 48 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0.5-1.0-081924

Quant Time: Aug 22 08:23:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



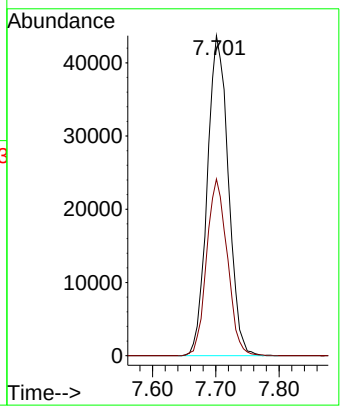


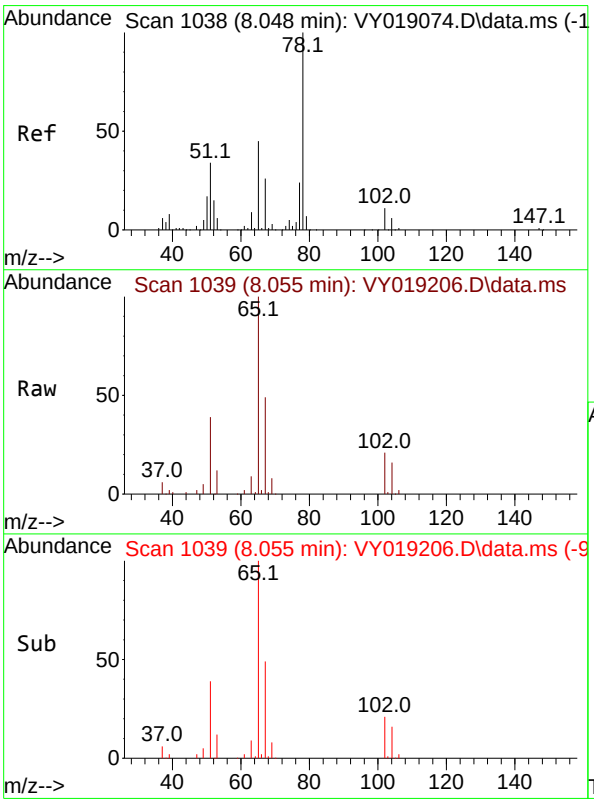
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019206.D
Acq: 22 Aug 2024 07:45

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0.5-1.0-081924

Tgt Ion:168 Resp: 101068

Ion	Ratio	Lower	Upper
168	100		
99	55.2	39.1	58.7

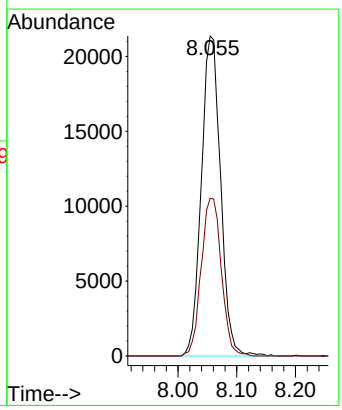


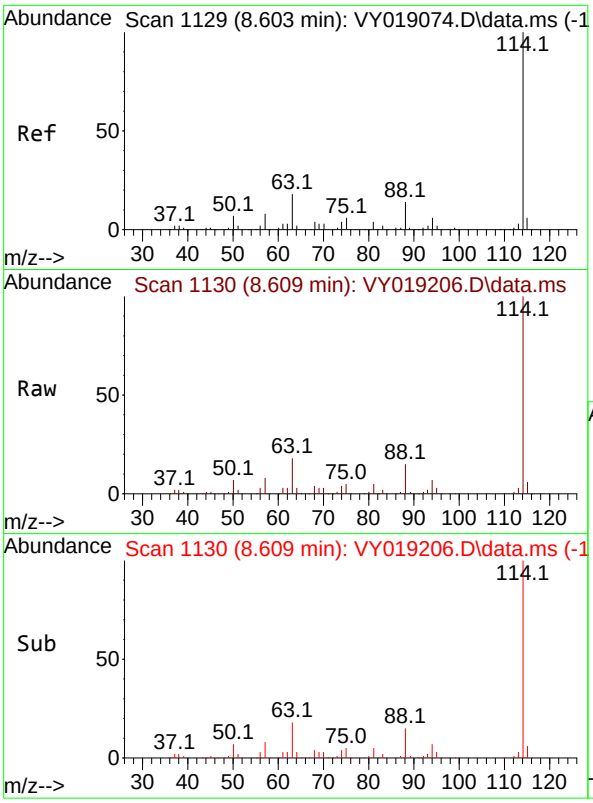


#33
1,2-Dichloroethane-d4
Concen: 48.007 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019206.D
Acq: 22 Aug 2024 07:45

Tgt Ion: 65 Resp: 48637

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	109.6



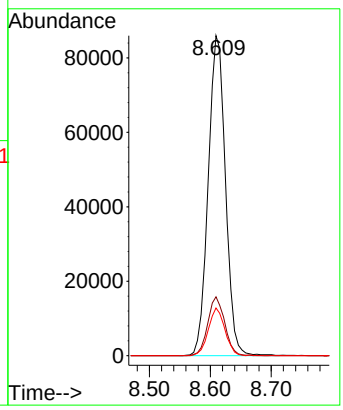


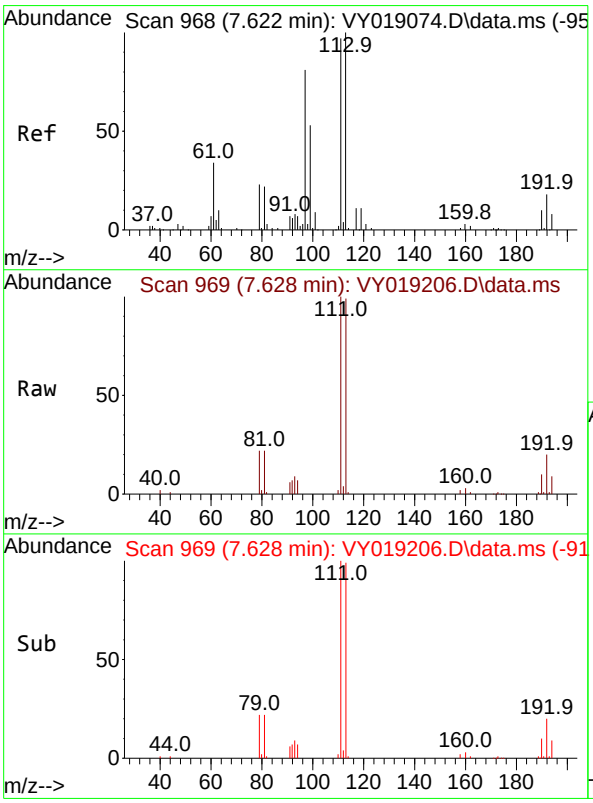
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019206.D
Acq: 22 Aug 2024 07:45

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0.5-1.0-081924

Tgt Ion:114 Resp: 169287

Ion	Ratio	Lower	Upper
114	100		
63	18.4	0.0	35.0
88	14.9	0.0	27.2

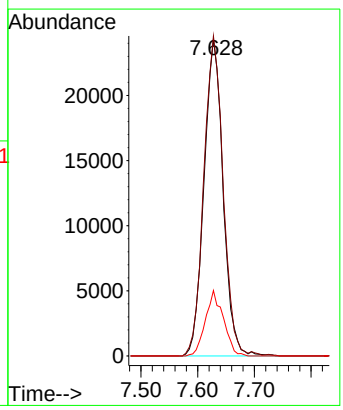


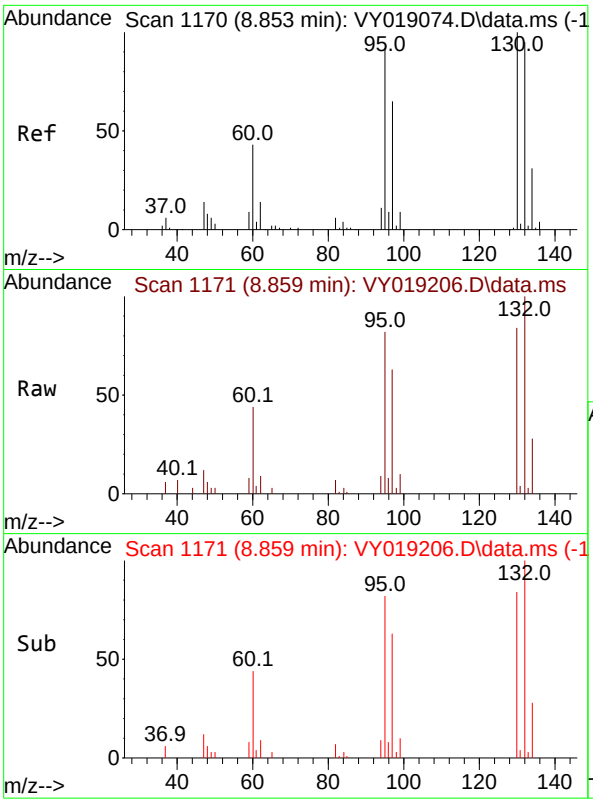


#35
Dibromofluoromethane
Concen: 51.268 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY019206.D
Acq: 22 Aug 2024 07:45

Tgt Ion:113 Resp: 56749

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.2	123.4
192	19.5	15.9	23.9



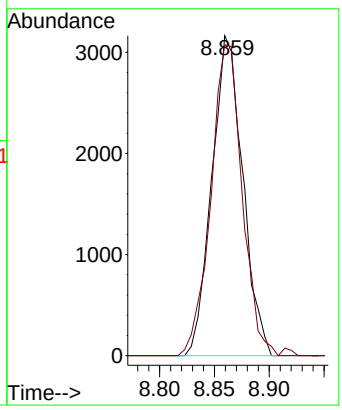


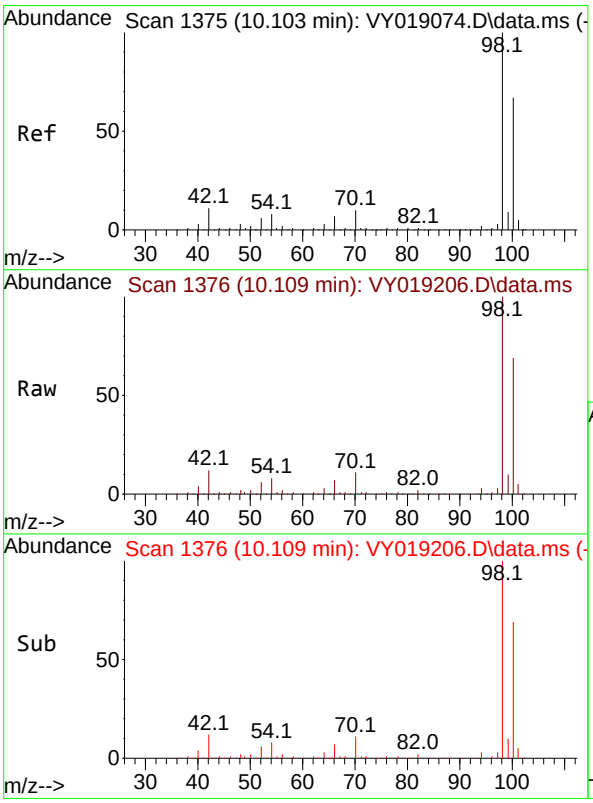
#44
Trichloroethene
Concen: 4.760 ug/l
RT: 8.859 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019206.D
Acq: 22 Aug 2024 07:45

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0.5-1.0-081924

Tgt Ion:130 Resp: 6192

Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	188.0

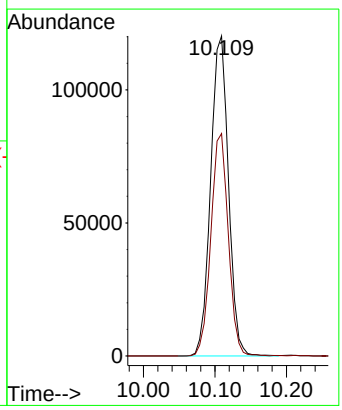


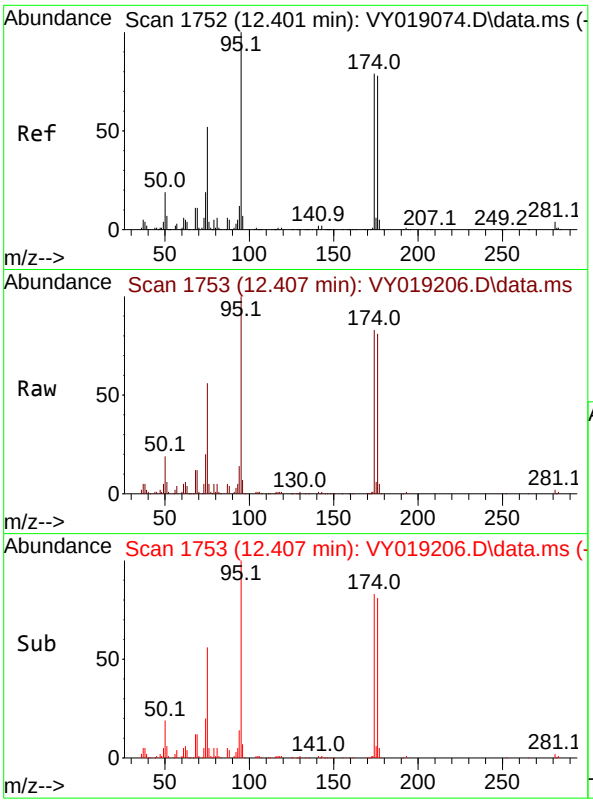


#50
Toluene-d8
Concen: 52.185 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY019206.D
Acq: 22 Aug 2024 07:45

Tgt Ion: 98 Resp: 207872

Ion	Ratio	Lower	Upper
98	100		
100	68.0	52.0	78.0



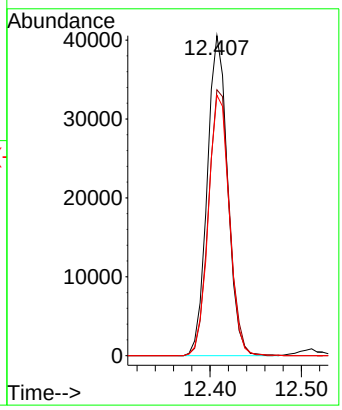


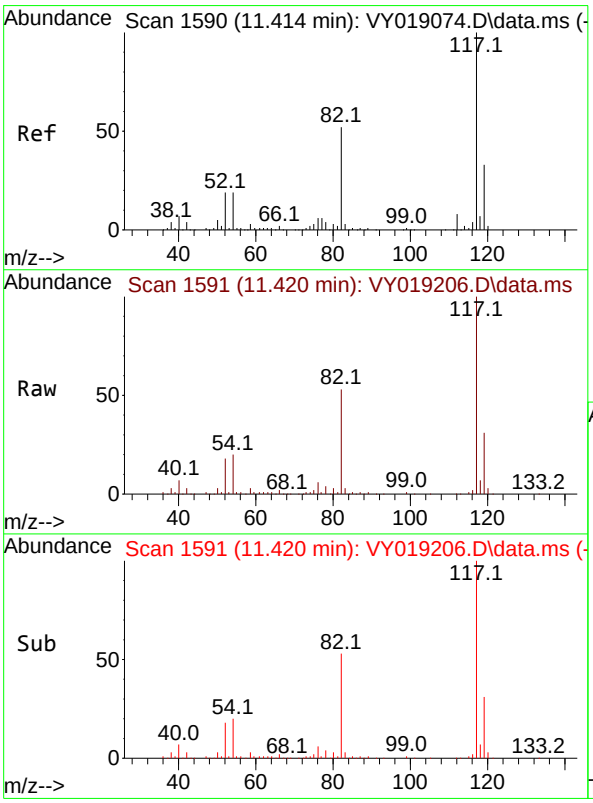
#62
4-Bromofluorobenzene
Concen: 46.267 ug/l
RT: 12.407 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019206.D
Acq: 22 Aug 2024 07:45

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0.5-1.0-081924

Tgt Ion: 95 Resp: 62827

Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	175.6
176	83.4	0.0	171.4

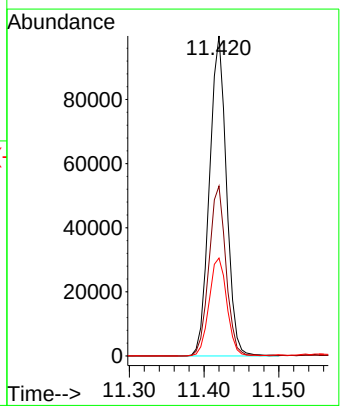


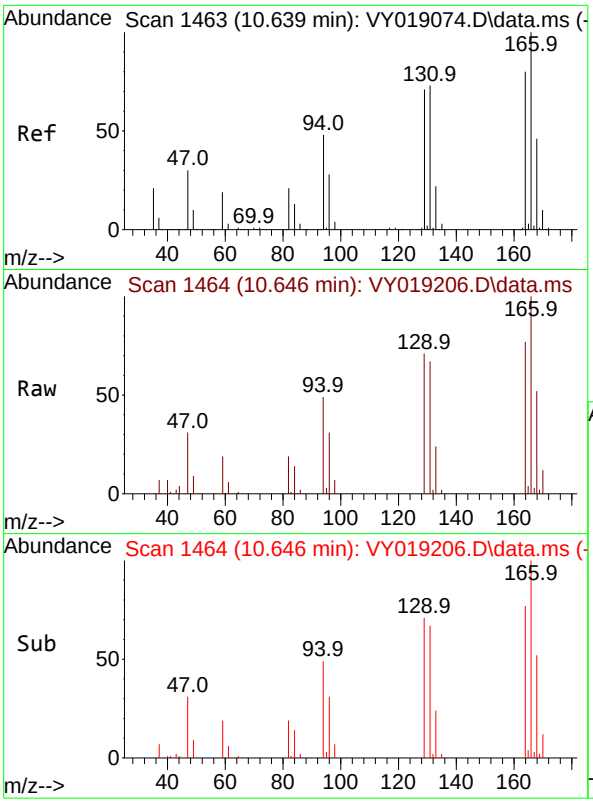


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY019206.D
Acq: 22 Aug 2024 07:45

Tgt Ion:117 Resp: 157903

Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.4	63.6
119	30.6	25.9	38.9



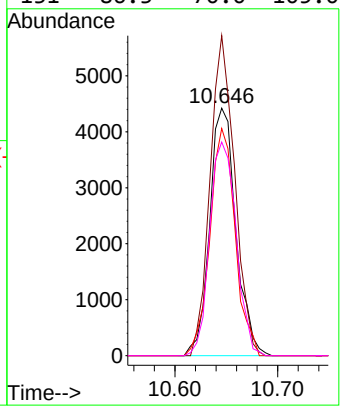


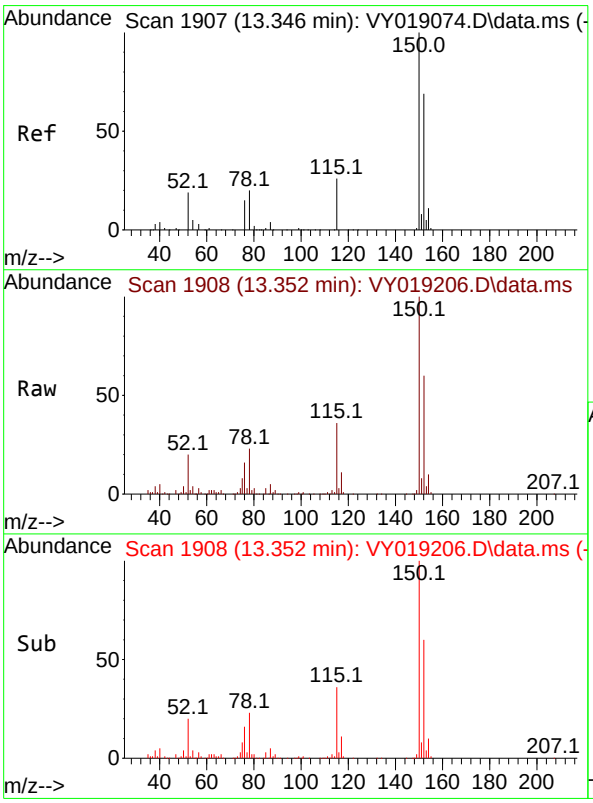
#64
Tetrachloroethene
Concen: 5.680 ug/l
RT: 10.646 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019206.D
Acq: 22 Aug 2024 07:45

Instrument :
MSVOA_Y
ClientSampleId :
S-903-J-SO-0.5-1.0-081924

Tgt Ion:164 Resp: 7840

Ion	Ratio	Lower	Upper
164	100		
166	129.3	102.6	154.0
129	91.8	72.0	108.0
131	86.3	70.0	105.0

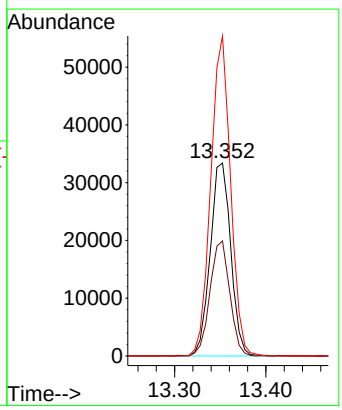




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019206.D
Acq: 22 Aug 2024 07:45

Tgt Ion:152 Resp: 51958

Ion	Ratio	Lower	Upper
152	100		
115	57.8	28.2	84.7
150	159.8	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-13	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	30.6
Sample Wt/Vol:	4.61 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019207.D	1		08/22/24 08:09	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.80	U	5.80	17.7	ug/Kg
74-87-3	Chloromethane	4.10	U	4.10	17.7	ug/Kg
75-01-4	Vinyl Chloride	2.70	U	2.70	17.7	ug/Kg
74-83-9	Bromomethane	3.70	U	3.70	17.7	ug/Kg
75-00-3	Chloroethane	3.60	U	3.60	17.7	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	3.80	U	3.80	17.7	ug/Kg
75-35-4	1,1-Dichloroethene	2.80	U	2.80	17.7	ug/Kg
67-64-1	Acetone	22.1	U	22.1	88.6	ug/Kg
75-15-0	Carbon Disulfide	4.50	U	4.50	17.7	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.40	U	2.40	17.7	ug/Kg
75-09-2	Methylene Chloride	12.1	U	12.1	35.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	3.00	U	3.00	17.7	ug/Kg
75-34-3	1,1-Dichloroethane	2.20	U	2.20	17.7	ug/Kg
110-82-7	Cyclohexane	2.40	U	2.40	17.7	ug/Kg
78-93-3	2-Butanone	20.1	U	20.1	88.6	ug/Kg
56-23-5	Carbon Tetrachloride	3.10	U	3.10	17.7	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.20	U	2.20	17.7	ug/Kg
67-66-3	Chloroform	2.40	U	2.40	17.7	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.80	U	2.80	17.7	ug/Kg
108-87-2	Methylcyclohexane	3.10	U	3.10	17.7	ug/Kg
71-43-2	Benzene	2.60	U	2.60	17.7	ug/Kg
107-06-2	1,2-Dichloroethane	2.20	U	2.20	17.7	ug/Kg
79-01-6	Trichloroethene	2.70	U	2.70	17.7	ug/Kg
75-27-4	Bromodichloromethane	2.00	U	2.00	17.7	ug/Kg
108-88-3	Toluene	2.40	U	2.40	17.7	ug/Kg
79-00-5	1,1,2-Trichloroethane	3.00	U	3.00	17.7	ug/Kg
124-48-1	Dibromochloromethane	2.30	U	2.30	17.7	ug/Kg
127-18-4	Tetrachloroethene	3.20	U	3.20	17.7	ug/Kg
108-90-7	Chlorobenzene	2.60	U	2.60	17.7	ug/Kg
100-41-4	Ethyl Benzene	2.20	U	2.20	17.7	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-13	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	30.6
Sample Wt/Vol:	4.61 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019207.D	1		08/22/24 08:09	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	4.80	U	4.80	35.4	ug/Kg
1330-20-7	Total Xylenes	7.30	U	7.30	53.1	ug/Kg
95-47-6	o-Xylene	2.50	U	2.50	17.7	ug/Kg
98-82-8	Isopropylbenzene	2.40	U	2.40	17.7	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.80	U	2.80	17.7	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.10	U	2.10	17.7	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.2		70 (50) - 130 (163)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	28.3	*	70 (29) - 130 (146)	57%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	99500	7.701			
540-36-3	1,4-Difluorobenzene	164000	8.61			
3114-55-4	Chlorobenzene-d5	120000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	27200	13.353			

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_Y\Data\VY082124\
Data File : VY019207.D
Acq On : 22 Aug 2024 08:09
Operator : SY/MD
Sample : P3671-13
Misc : 4.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0-0.5-081924

Quant Time: Aug 22 08:26:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

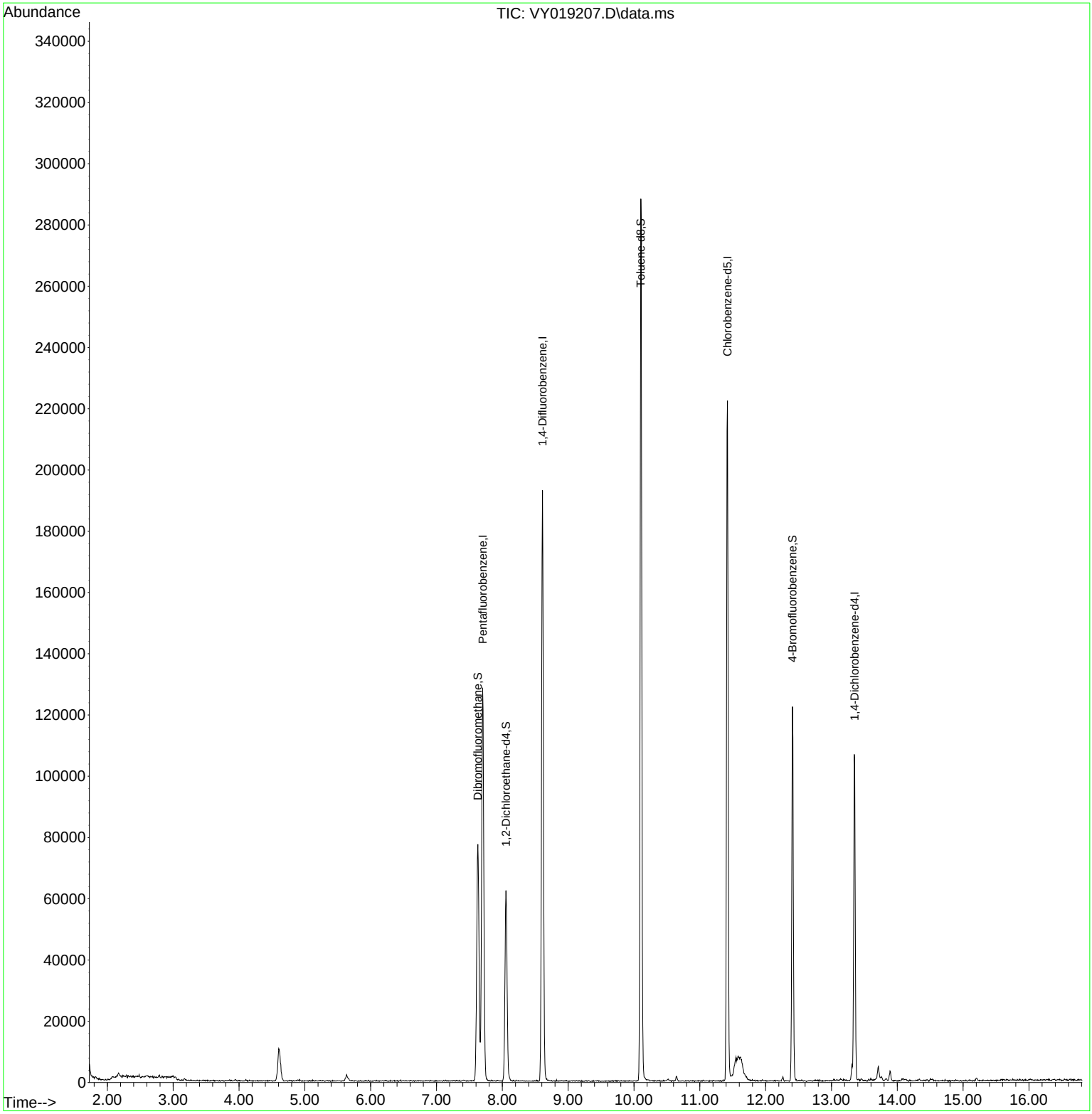
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	99521	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	163825	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	119633	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	27197	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	51078	51.200	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.400%			
35) Dibromofluoromethane	7.628	113	55310	51.634	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.260%			
50) Toluene-d8	10.103	98	185410	48.098	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.200%			
62) 4-Bromofluorobenzene	12.408	95	37132	28.257	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 56.520%			
Target Compounds						Qvalue

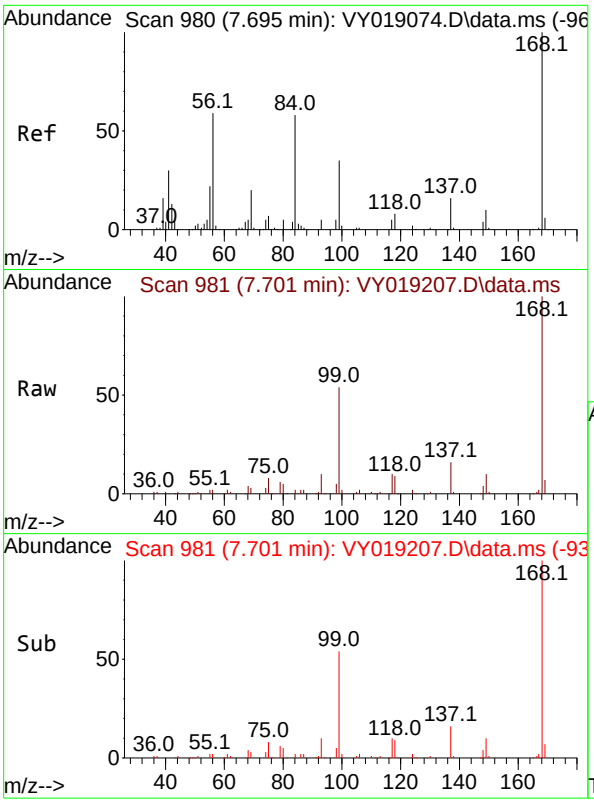
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019207.D
Acq On : 22 Aug 2024 08:09
Operator : SY/MD
Sample : P3671-13
Misc : 4.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0-0.5-081924

Quant Time: Aug 22 08:26:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



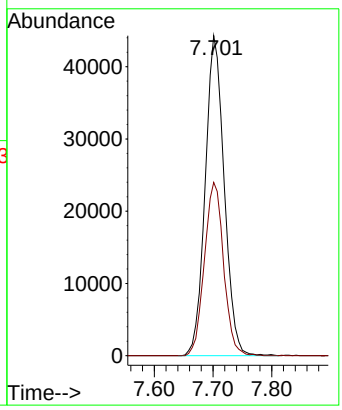


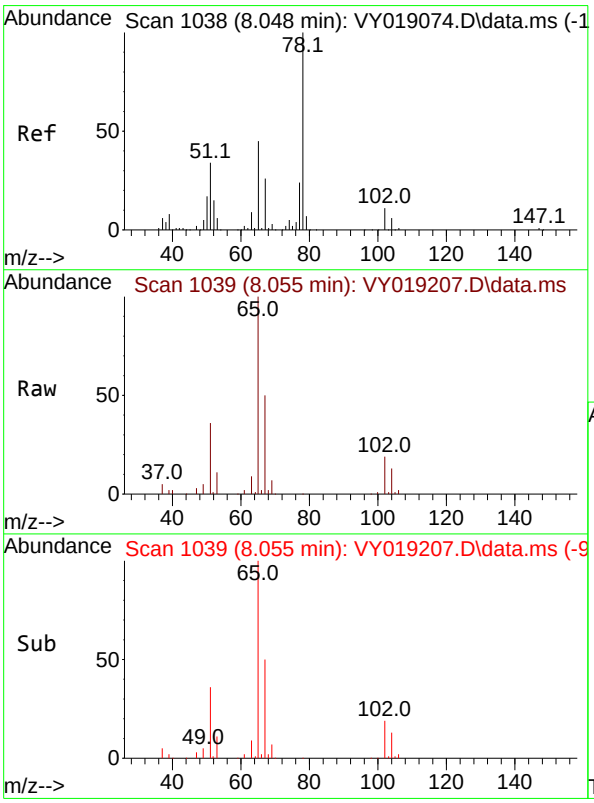
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019207.D
Acq: 22 Aug 2024 08:09

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0-0.5-081924

Tgt Ion:168 Resp: 99521

Ion	Ratio	Lower	Upper
168	100		
99	54.1	39.1	58.7

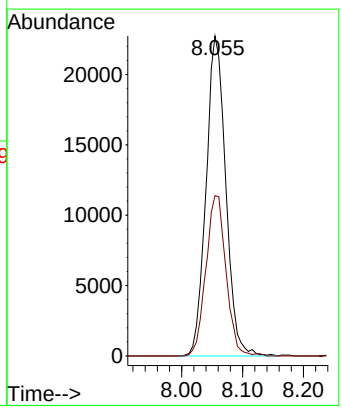


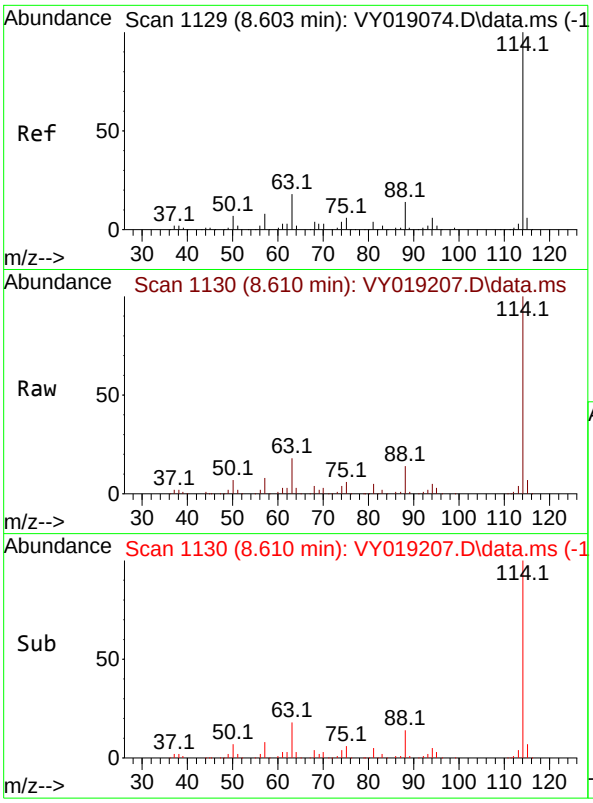


#33
1,2-Dichloroethane-d4
Concen: 51.200 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019207.D
Acq: 22 Aug 2024 08:09

Tgt Ion: 65 Resp: 51078

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	109.6



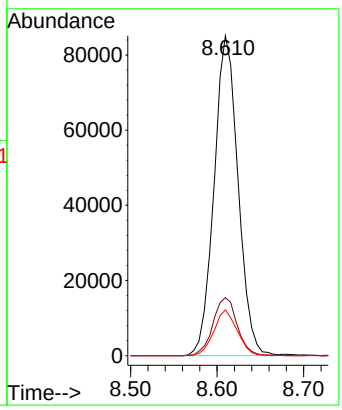


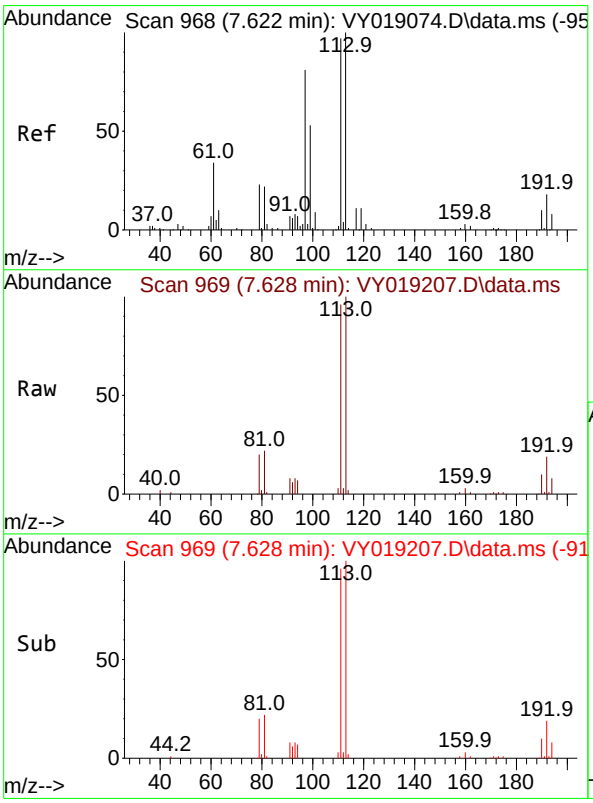
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019207.D
Acq: 22 Aug 2024 08:09

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0-0.5-081924

Tgt Ion:114 Resp: 163825

Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	35.0
88	14.3	0.0	27.2

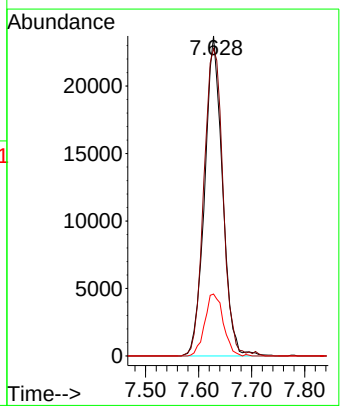


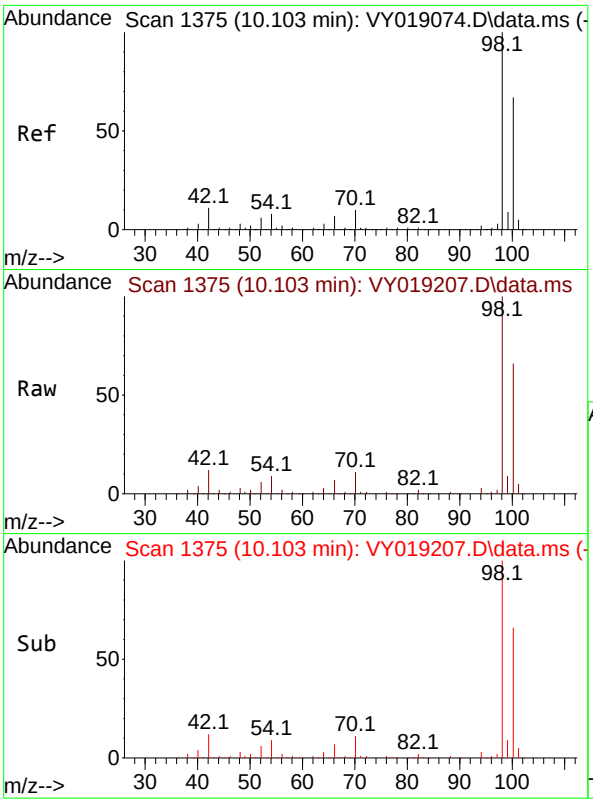


#35
Dibromofluoromethane
Concen: 51.634 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY019207.D
Acq: 22 Aug 2024 08:09

Tgt Ion:113 Resp: 55310

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.4
192	20.1	15.9	23.9



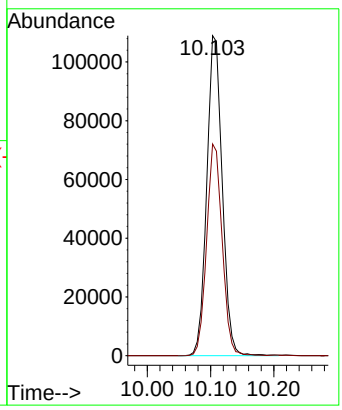


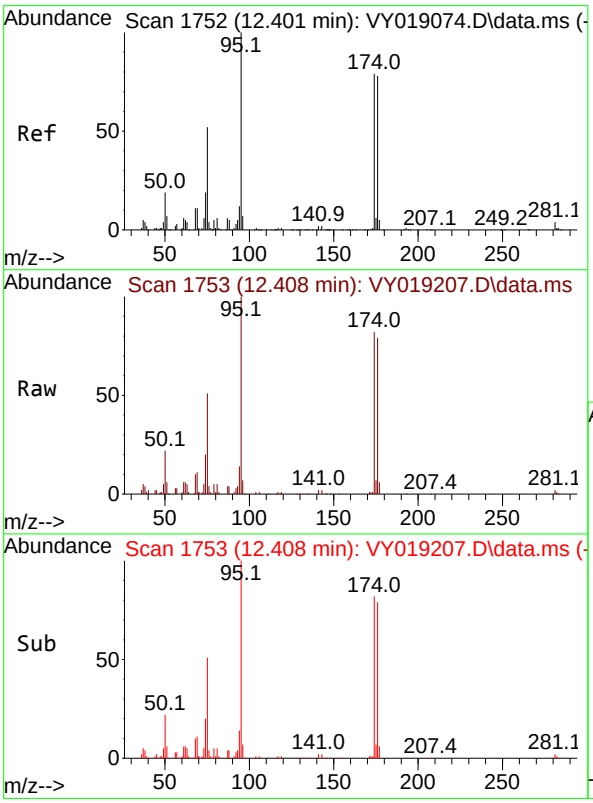
#50
Toluene-d8
Concen: 48.098 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019207.D
Acq: 22 Aug 2024 08:09

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0-0.5-081924

Tgt Ion: 98 Resp: 185410

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.0	78.0

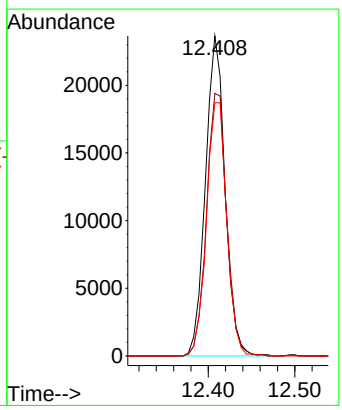


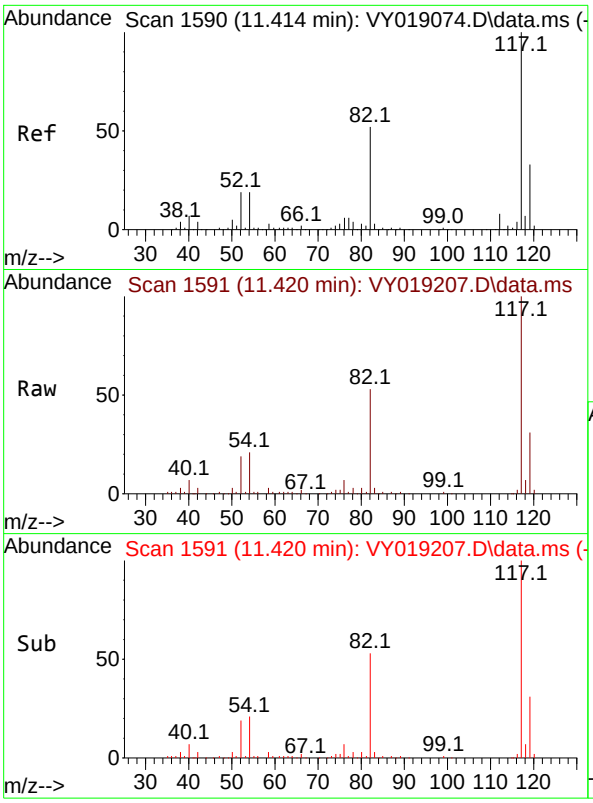


#62
4-Bromofluorobenzene
Concen: 28.257 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019207.D
Acq: 22 Aug 2024 08:09

Tgt Ion: 95 Resp: 37132

Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	175.6
176	81.9	0.0	171.4



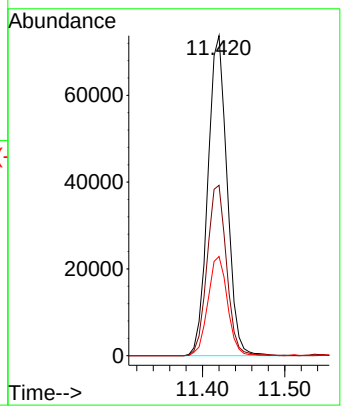


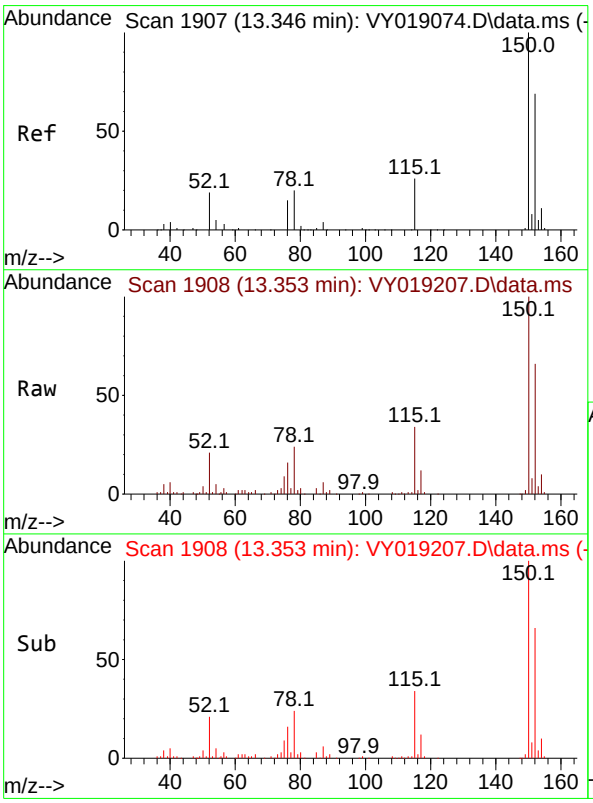
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019207.D
Acq: 22 Aug 2024 08:09

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0-0.5-081924

Tgt Ion:117 Resp: 119633

Ion	Ratio	Lower	Upper
117	100		
82	53.2	42.4	63.6
119	31.0	25.9	38.9

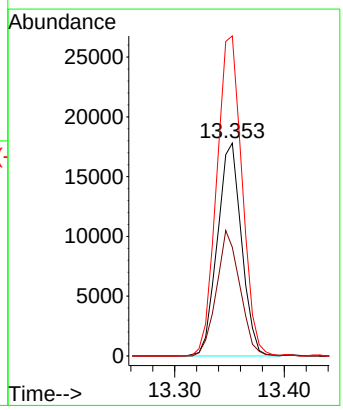




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019207.D
Acq: 22 Aug 2024 08:09

Tgt Ion:152 Resp: 27197

Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.2	84.7
150	158.2	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0-0.5-081924RE	SDG No.:	P3671
Lab Sample ID:	P3671-13RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	30.6
Sample Wt/Vol:	2.87 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019229.D	1		08/22/24 18:46	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	9.40	U	9.40	28.5	ug/Kg
74-87-3	Chloromethane	6.60	U	6.60	28.5	ug/Kg
75-01-4	Vinyl Chloride	4.40	U	4.40	28.5	ug/Kg
74-83-9	Bromomethane	5.90	U	5.90	28.5	ug/Kg
75-00-3	Chloroethane	5.80	U	5.80	28.5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	6.10	U	6.10	28.5	ug/Kg
75-35-4	1,1-Dichloroethene	4.40	U	4.40	28.5	ug/Kg
67-64-1	Acetone	35.5	U	35.5	140	ug/Kg
75-15-0	Carbon Disulfide	7.30	U	7.30	28.5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	3.80	U	3.80	28.5	ug/Kg
75-09-2	Methylene Chloride	19.4	U	19.4	56.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	4.80	U	4.80	28.5	ug/Kg
75-34-3	1,1-Dichloroethane	3.60	U	3.60	28.5	ug/Kg
110-82-7	Cyclohexane	3.90	U	3.90	28.5	ug/Kg
78-93-3	2-Butanone	32.3	U	32.3	140	ug/Kg
56-23-5	Carbon Tetrachloride	5.00	U	5.00	28.5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	3.50	U	3.50	28.5	ug/Kg
67-66-3	Chloroform	3.80	U	3.80	28.5	ug/Kg
71-55-6	1,1,1-Trichloroethane	4.40	U	4.40	28.5	ug/Kg
108-87-2	Methylcyclohexane	5.00	U	5.00	28.5	ug/Kg
71-43-2	Benzene	4.10	U	4.10	28.5	ug/Kg
107-06-2	1,2-Dichloroethane	3.50	U	3.50	28.5	ug/Kg
79-01-6	Trichloroethene	4.30	U	4.30	28.5	ug/Kg
75-27-4	Bromodichloromethane	3.20	U	3.20	28.5	ug/Kg
108-88-3	Toluene	3.80	U	3.80	28.5	ug/Kg
79-00-5	1,1,2-Trichloroethane	4.80	U	4.80	28.5	ug/Kg
124-48-1	Dibromochloromethane	3.70	U	3.70	28.5	ug/Kg
127-18-4	Tetrachloroethene	5.10	U	5.10	28.5	ug/Kg
108-90-7	Chlorobenzene	4.20	U	4.20	28.5	ug/Kg
100-41-4	Ethyl Benzene	3.50	U	3.50	28.5	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0-0.5-081924RE	SDG No.:	P3671
Lab Sample ID:	P3671-13RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	30.6
Sample Wt/Vol:	2.87 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019229.D	1		08/22/24 18:46	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	7.70	U	7.70	56.9	ug/Kg
1330-20-7	Total Xylenes	11.7	U	11.7	85.4	ug/Kg
95-47-6	o-Xylene	4.00	U	4.00	28.5	ug/Kg
98-82-8	Isopropylbenzene	3.80	U	3.80	28.5	ug/Kg
106-46-7	1,4-Dichlorobenzene	4.60	U	4.60	28.5	ug/Kg
95-50-1	1,2-Dichlorobenzene	3.40	U	3.40	28.5	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.9		70 (50) - 130 (163)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	46.9		70 (58) - 130 (134)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	27.5	*	70 (29) - 130 (146)	55%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	85900	7.701			
540-36-3	1,4-Difluorobenzene	144000	8.61			
3114-55-4	Chlorobenzene-d5	108000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	27300	13.347			

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_Y\Data\VY082224\
Data File : VY019229.D
Acq On : 22 Aug 2024 18:46
Operator : SY/MD
Sample : P3671-13RE
Misc : 2.87g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0-0.5-081924RE

Quant Time: Aug 23 01:56:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

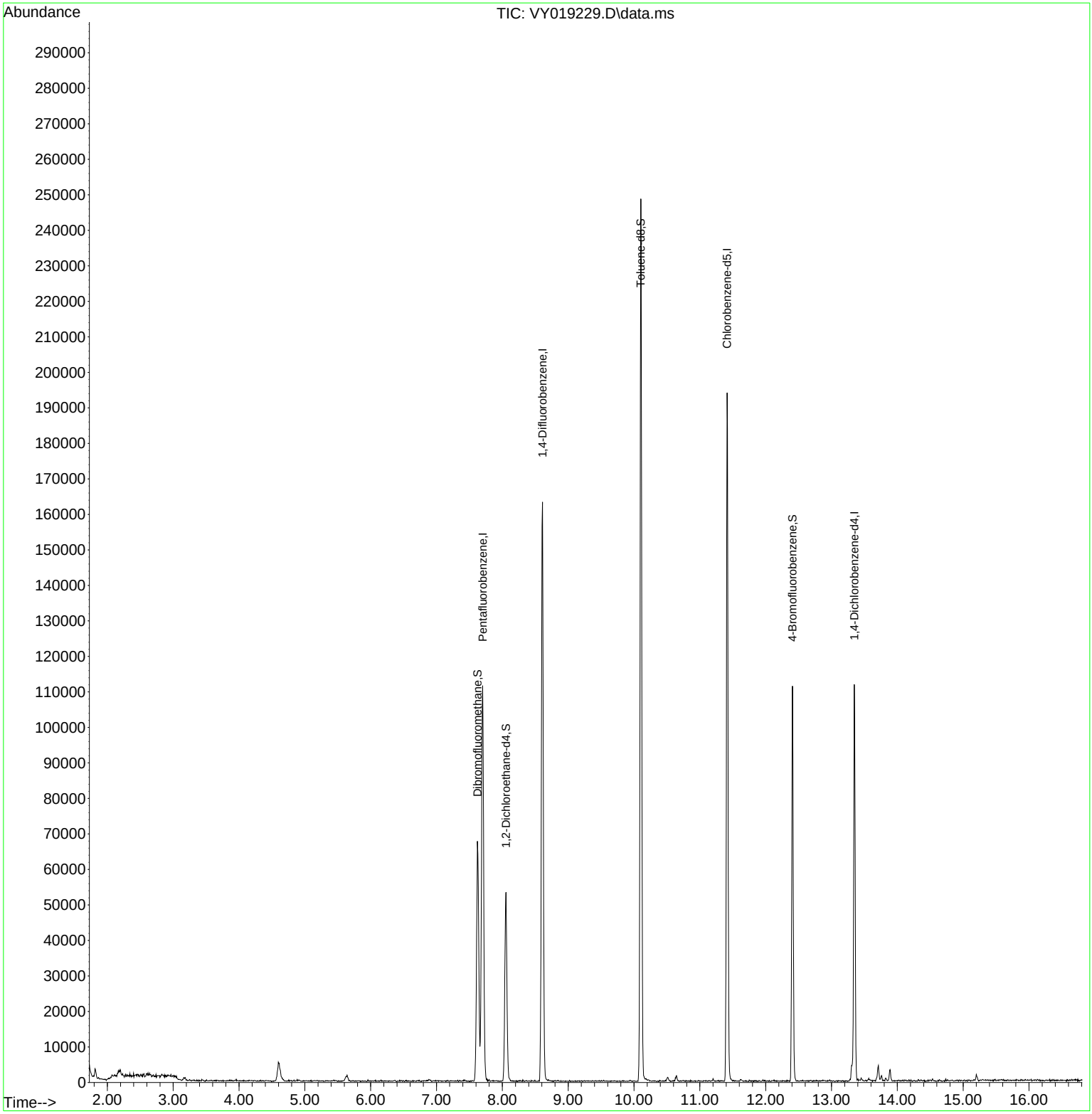
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	85924	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	144093	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	107645	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	27279	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	41252	47.894	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 95.780%			
35) Dibromofluoromethane	7.622	113	46507	49.362	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.720%			
50) Toluene-d8	10.103	98	159049	46.910	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 93.820%			
62) 4-Bromofluorobenzene	12.408	95	31756	27.475	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 54.940%			
Target Compounds						Qvalue

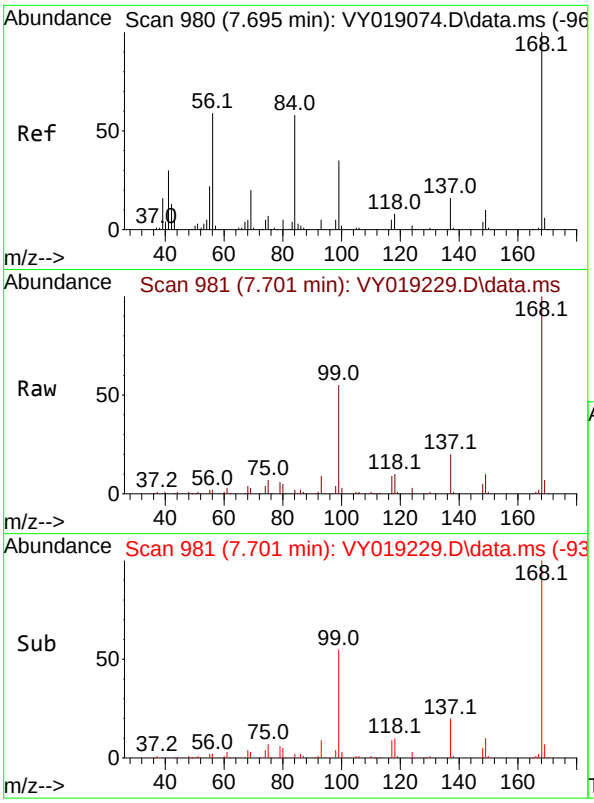
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019229.D
Acq On : 22 Aug 2024 18:46
Operator : SY/MD
Sample : P3671-13RE
Misc : 2.87g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0-0.5-081924RE

Quant Time: Aug 23 01:56:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



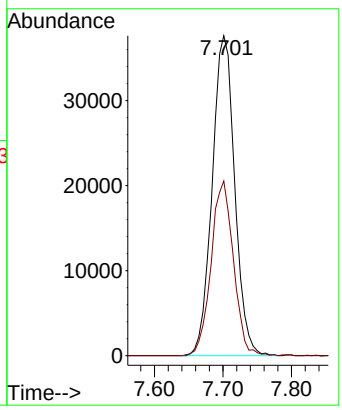


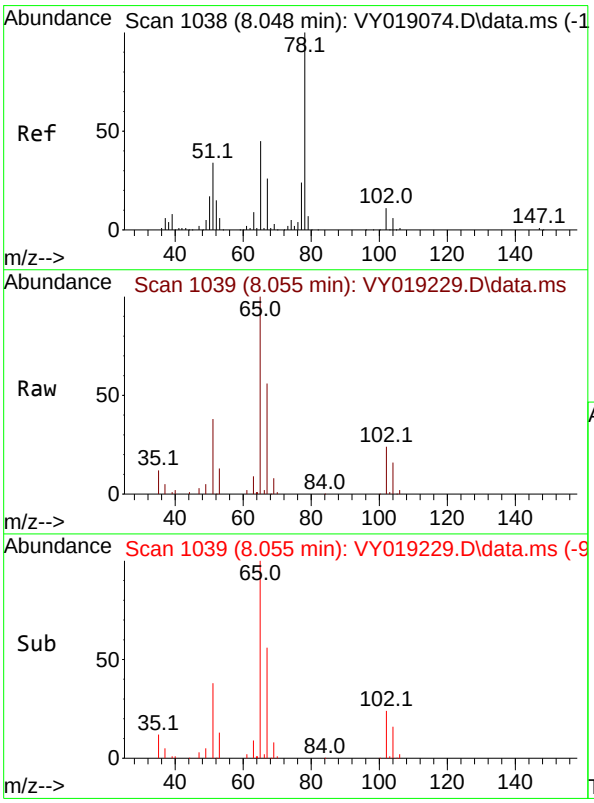
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019229.D
Acq: 22 Aug 2024 18:46

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0-0.5-081924RE

Tgt Ion:168 Resp: 85924

Ion	Ratio	Lower	Upper
168	100		
99	54.6	39.1	58.7

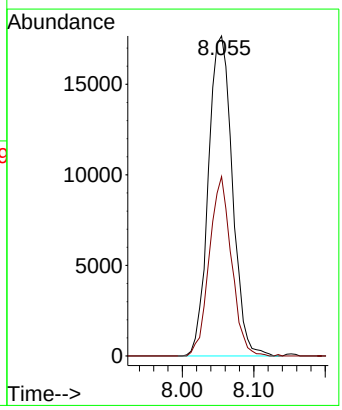


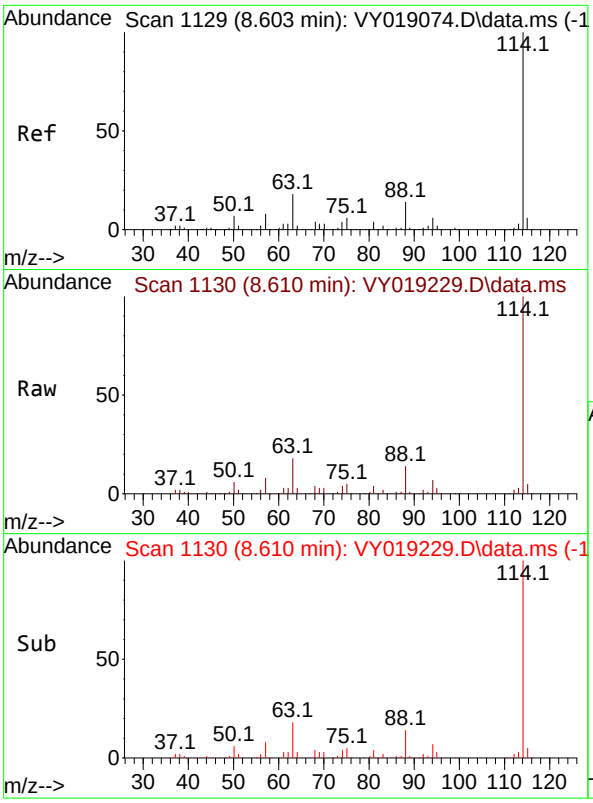


#33
1,2-Dichloroethane-d4
Concen: 47.894 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019229.D
Acq: 22 Aug 2024 18:46

Tgt Ion: 65 Resp: 41252

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	109.6



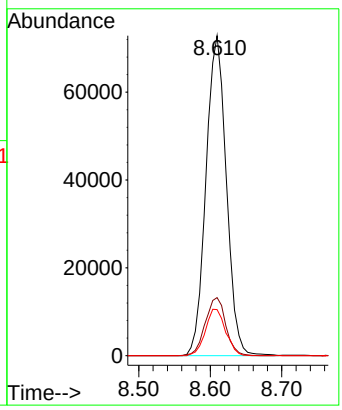


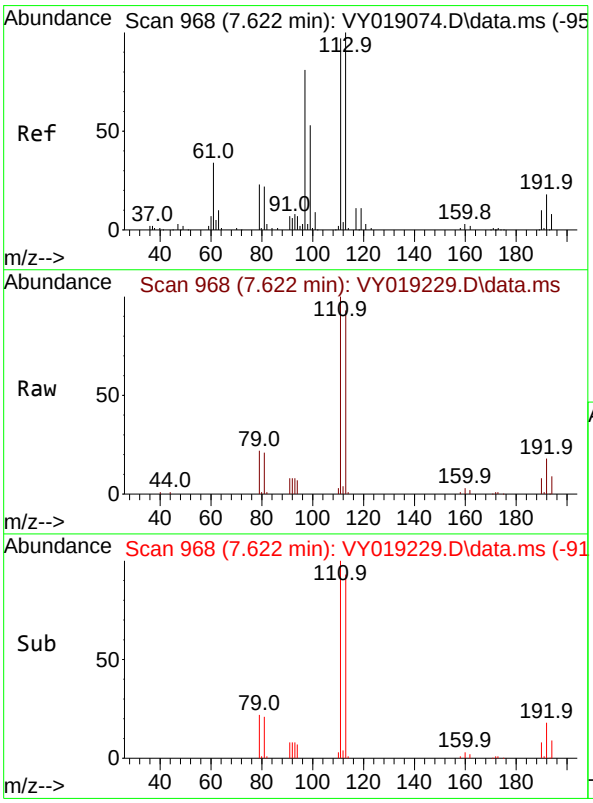
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019229.D
Acq: 22 Aug 2024 18:46

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0-0.5-081924RE

Tgt Ion:114 Resp: 144093

Ion	Ratio	Lower	Upper
114	100		
63	18.1	0.0	35.0
88	14.4	0.0	27.2

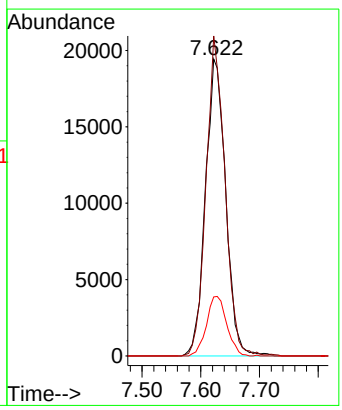


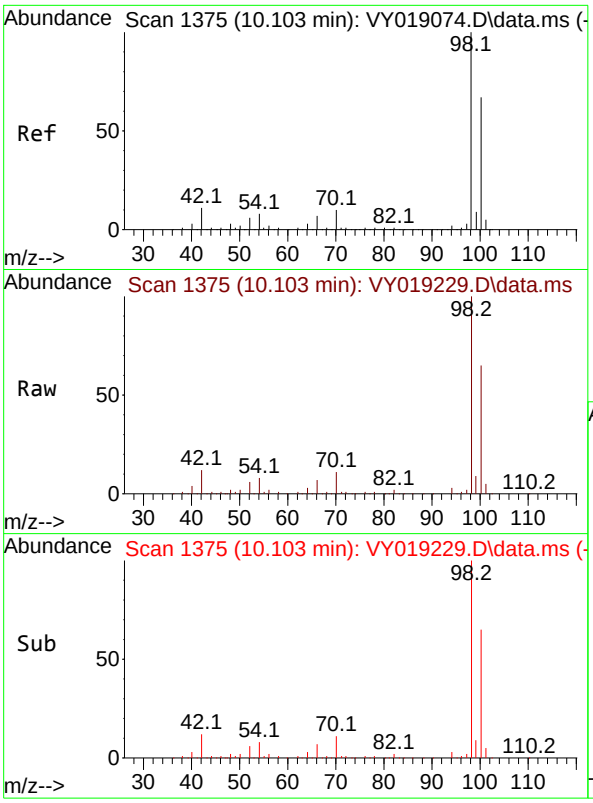


#35
Dibromofluoromethane
Concen: 49.362 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY019229.D
Acq: 22 Aug 2024 18:46

Tgt Ion:113 Resp: 46507

Ion	Ratio	Lower	Upper
113	100		
111	100.6	82.2	123.4
192	20.1	15.9	23.9



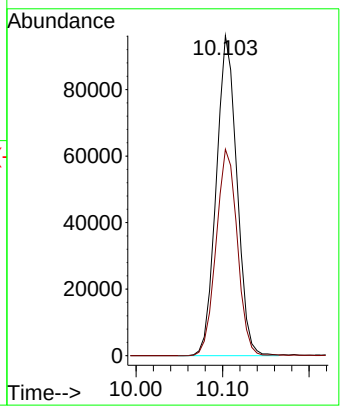


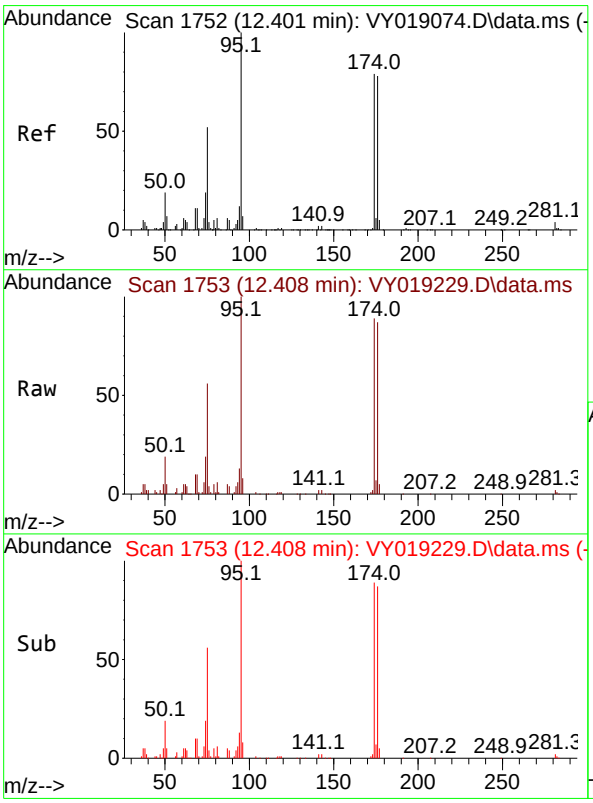
#50
Toluene-d8
Concen: 46.910 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019229.D
Acq: 22 Aug 2024 18:46

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0-0.5-081924RE

Tgt Ion: 98 Resp: 159049

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.0	78.0

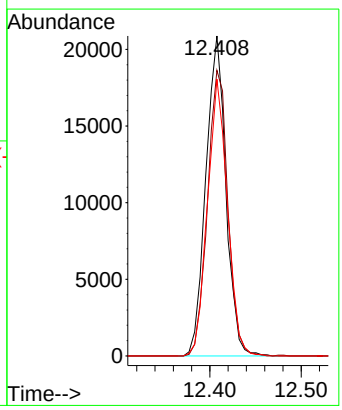


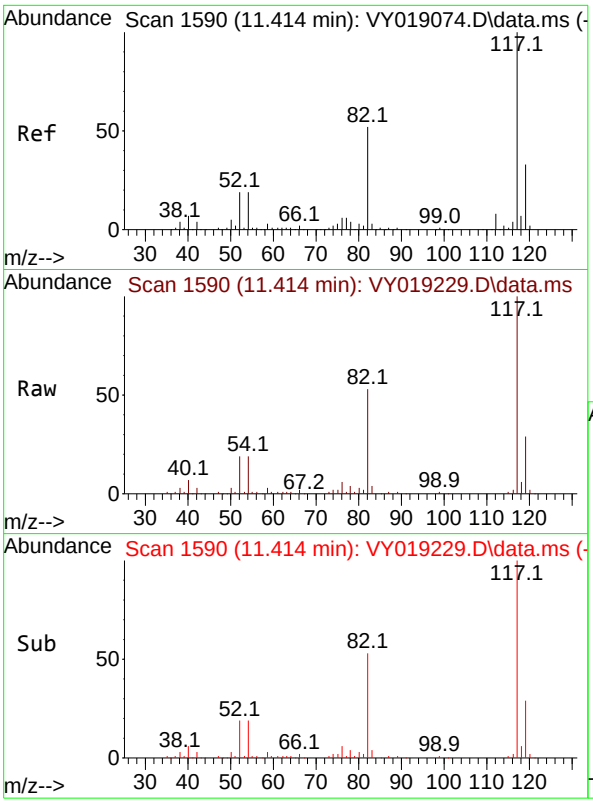


#62
4-Bromofluorobenzene
Concen: 27.475 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019229.D
Acq: 22 Aug 2024 18:46

Tgt Ion: 95 Resp: 31756

Ion	Ratio	Lower	Upper
95	100		
174	90.7	0.0	175.6
176	86.2	0.0	171.4



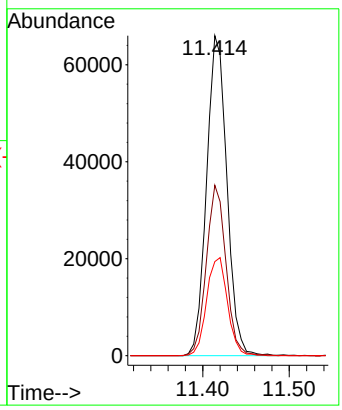


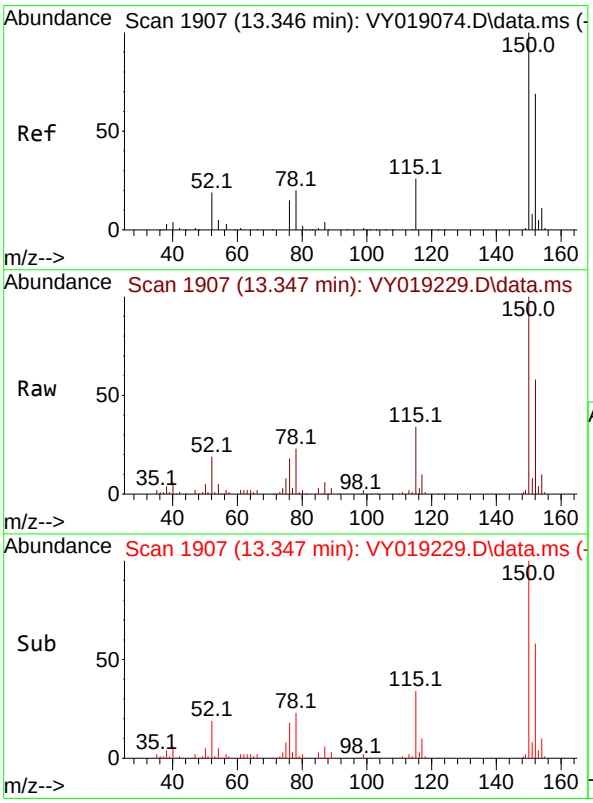
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019229.D
Acq: 22 Aug 2024 18:46

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0-0.5-081924RE

Tgt Ion:117 Resp: 107645

Ion	Ratio	Lower	Upper
117	100		
82	53.3	42.4	63.6
119	29.4	25.9	38.9

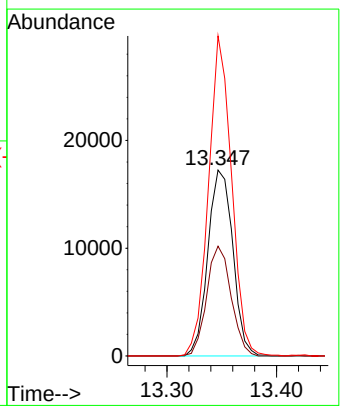




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019229.D
Acq: 22 Aug 2024 18:46

Tgt Ion:152 Resp: 27279

Ion	Ratio	Lower	Upper
152	100		
115	57.8	28.2	84.7
150	159.3	0.0	345.6



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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-14	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	51.5
Sample Wt/Vol:	4.18 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019230.D	1		08/22/24 19:10	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	3.80	U	3.80	11.6	ug/Kg
74-87-3	Chloromethane	2.70	U	2.70	11.6	ug/Kg
75-01-4	Vinyl Chloride	1.80	U	1.80	11.6	ug/Kg
74-83-9	Bromomethane	2.40	U	2.40	11.6	ug/Kg
75-00-3	Chloroethane	2.30	U	2.30	11.6	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	U	2.50	11.6	ug/Kg
75-35-4	1,1-Dichloroethene	1.80	U	1.80	11.6	ug/Kg
67-64-1	Acetone	14.5	U	14.5	58.1	ug/Kg
75-15-0	Carbon Disulfide	3.00	U	3.00	11.6	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.60	U	1.60	11.6	ug/Kg
75-09-2	Methylene Chloride	7.90	U	7.90	23.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.00	U	2.00	11.6	ug/Kg
75-34-3	1,1-Dichloroethane	1.50	U	1.50	11.6	ug/Kg
110-82-7	Cyclohexane	1.60	U	1.60	11.6	ug/Kg
78-93-3	2-Butanone	13.2	U	13.2	58.1	ug/Kg
56-23-5	Carbon Tetrachloride	2.00	U	2.00	11.6	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.40	U	1.40	11.6	ug/Kg
67-66-3	Chloroform	1.60	U	1.60	11.6	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.80	U	1.80	11.6	ug/Kg
108-87-2	Methylcyclohexane	2.00	U	2.00	11.6	ug/Kg
71-43-2	Benzene	1.70	U	1.70	11.6	ug/Kg
107-06-2	1,2-Dichloroethane	1.40	U	1.40	11.6	ug/Kg
79-01-6	Trichloroethene	1.70	U	1.70	11.6	ug/Kg
75-27-4	Bromodichloromethane	1.30	U	1.30	11.6	ug/Kg
108-88-3	Toluene	1.60	U	1.60	11.6	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.00	U	2.00	11.6	ug/Kg
124-48-1	Dibromochloromethane	1.50	U	1.50	11.6	ug/Kg
127-18-4	Tetrachloroethene	2.10	U	2.10	11.6	ug/Kg
108-90-7	Chlorobenzene	1.70	U	1.70	11.6	ug/Kg
100-41-4	Ethyl Benzene	1.40	U	1.40	11.6	ug/Kg

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-14	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	51.5
Sample Wt/Vol:	4.18 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019230.D	1		08/22/24 19:10	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	3.10	U	3.10	23.2	ug/Kg
1330-20-7	Total Xylenes	4.70	U	4.70	34.8	ug/Kg
95-47-6	o-Xylene	1.60	U	1.60	11.6	ug/Kg
98-82-8	Isopropylbenzene	1.60	U	1.60	11.6	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.90	11.6	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	11.6	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.8		70 (50) - 130 (163)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	46.2		70 (54) - 130 (147)	92%	SPK: 50
2037-26-5	Toluene-d8	48.5		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.8		70 (29) - 130 (146)	74%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	88600	7.701			
540-36-3	1,4-Difluorobenzene	160000	8.609			
3114-55-4	Chlorobenzene-d5	125000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	42300	13.346			

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_Y\Data\VY082224\
Data File : VY019230.D
Acq On : 22 Aug 2024 19:10
Operator : SY/MD
Sample : P3671-14
Misc : 4.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0.5-1-081924

Quant Time: Aug 23 01:56:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	88575	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	159662	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	125272	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	42316	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	53101	59.805	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.620%			
35) Dibromofluoromethane	7.622	113	48185	46.156	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 92.320%			
50) Toluene-d8	10.103	98	182340	48.535	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.080%			
62) 4-Bromofluorobenzene	12.408	95	47141	36.808	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 73.620%			

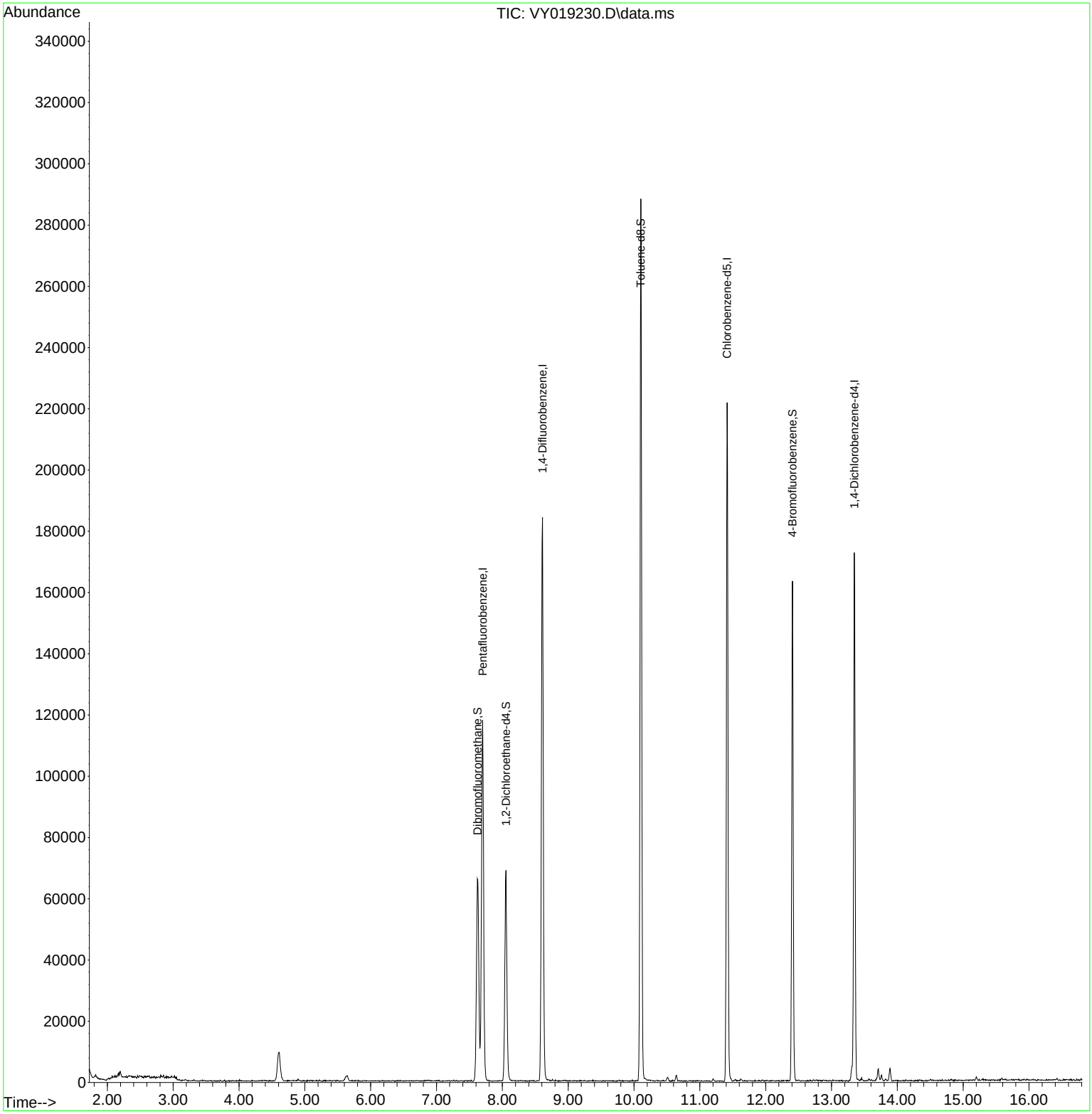
Target Compounds Qvalue

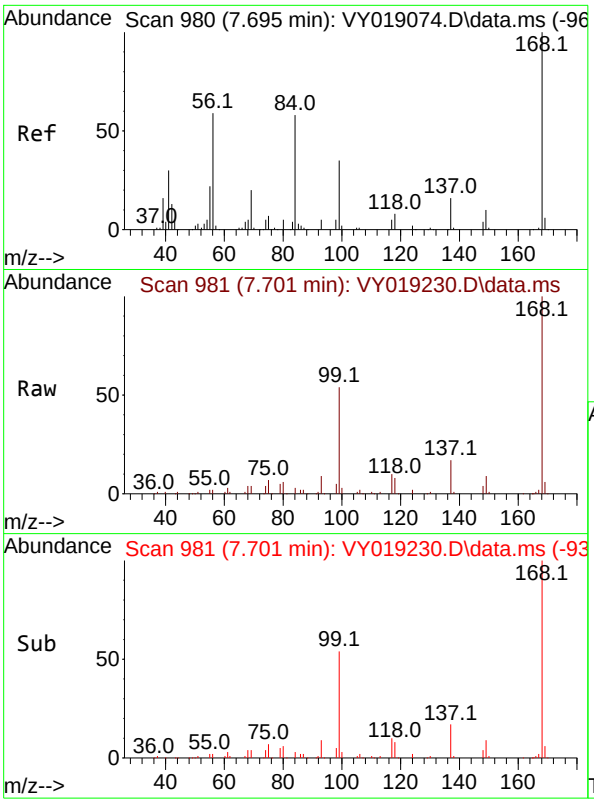
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019230.D
Acq On : 22 Aug 2024 19:10
Operator : SY/MD
Sample : P3671-14
Misc : 4.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0.5-1-081924

Quant Time: Aug 23 01:56:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



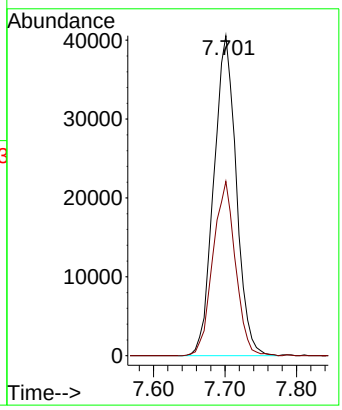


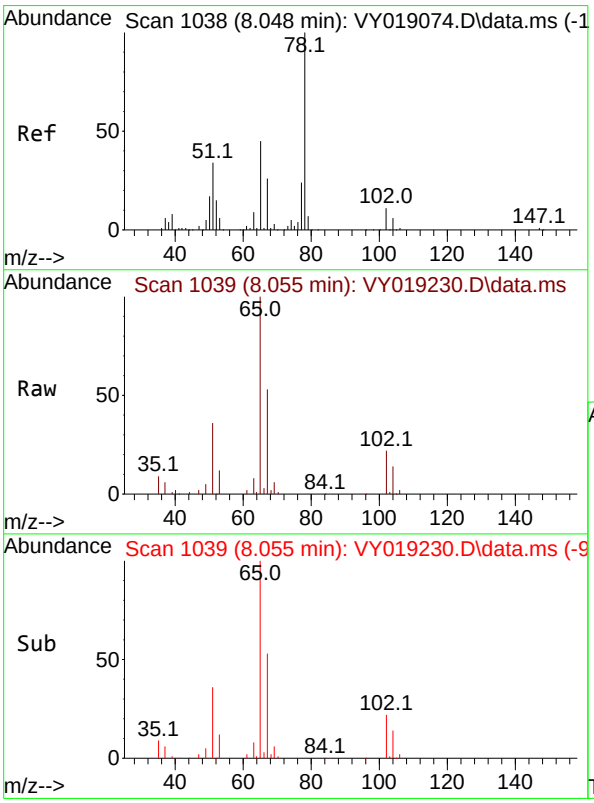
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019230.D
Acq: 22 Aug 2024 19:10

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0.5-1-081924

Tgt Ion:168 Resp: 88575

Ion	Ratio	Lower	Upper
168	100		
99	54.5	39.1	58.7

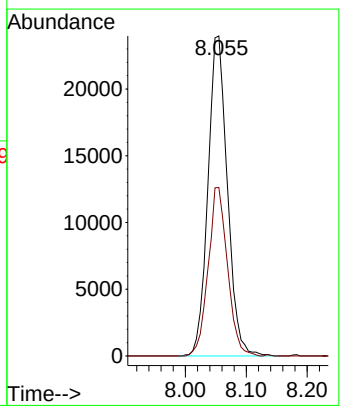


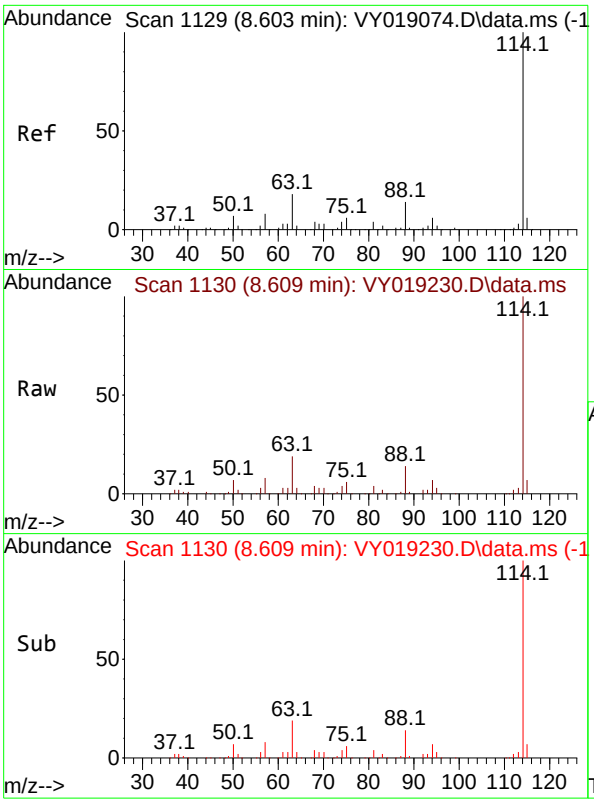


#33
1,2-Dichloroethane-d4
Concen: 59.805 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019230.D
Acq: 22 Aug 2024 19:10

Tgt Ion: 65 Resp: 53101

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	109.6



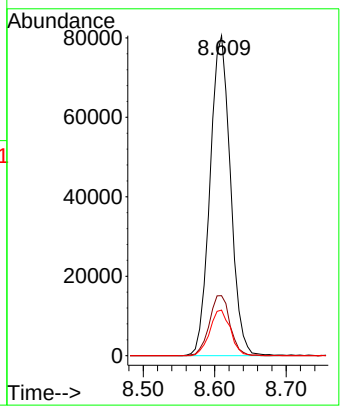


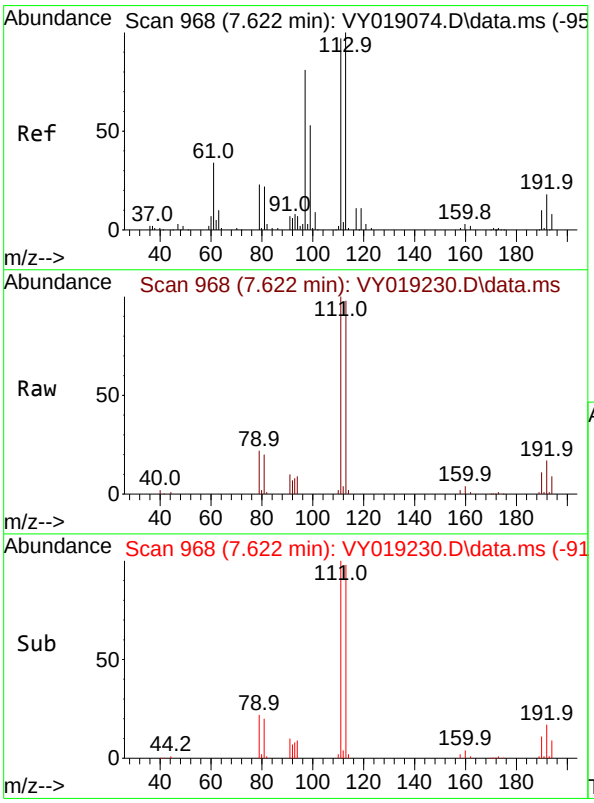
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019230.D
Acq: 22 Aug 2024 19:10

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0.5-1-081924

Tgt Ion:114 Resp: 159662

Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	35.0
88	14.3	0.0	27.2

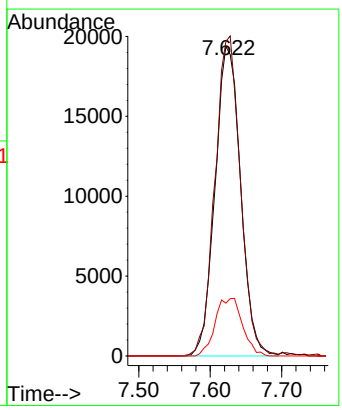


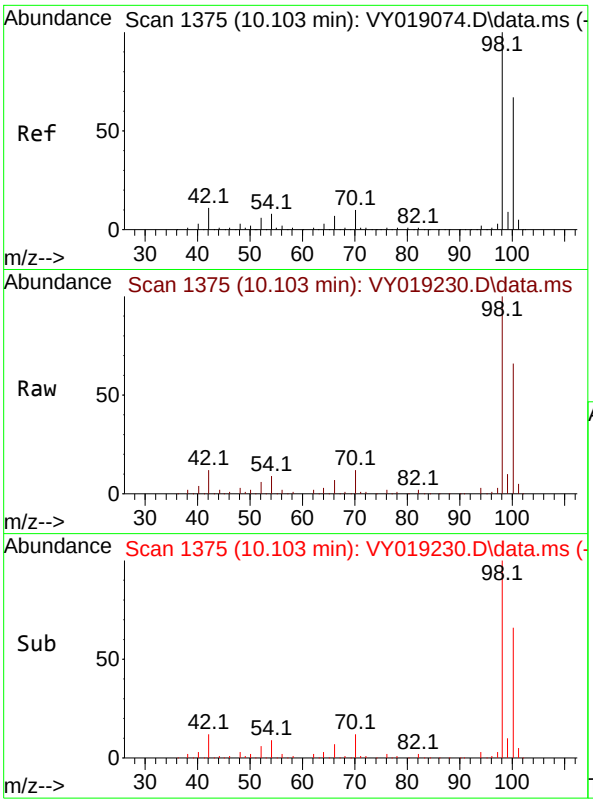


#35
Dibromofluoromethane
Concen: 46.156 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY019230.D
Acq: 22 Aug 2024 19:10

Tgt Ion:113 Resp: 48185

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.2	123.4
192	19.9	15.9	23.9



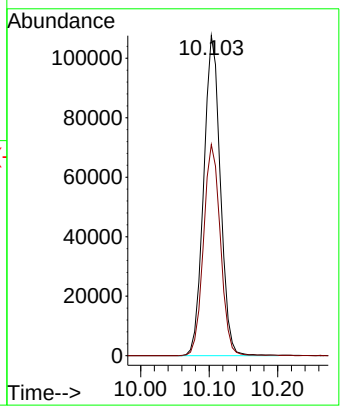


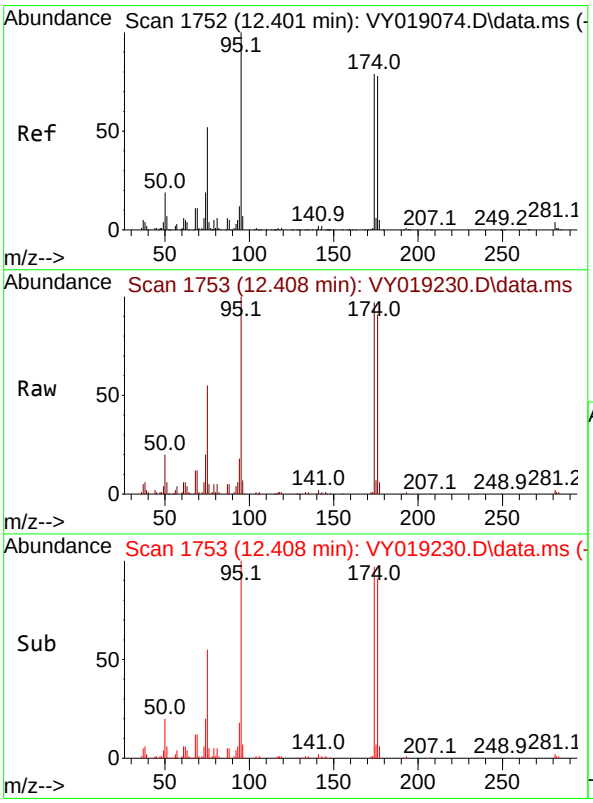
#50
Toluene-d8
Concen: 48.535 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019230.D
Acq: 22 Aug 2024 19:10

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0.5-1-081924

Tgt Ion: 98 Resp: 182340

Ion	Ratio	Lower	Upper
98	100		
100	66.7	52.0	78.0

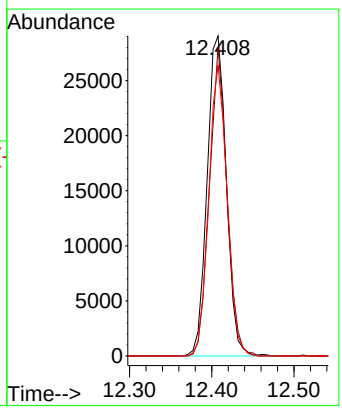


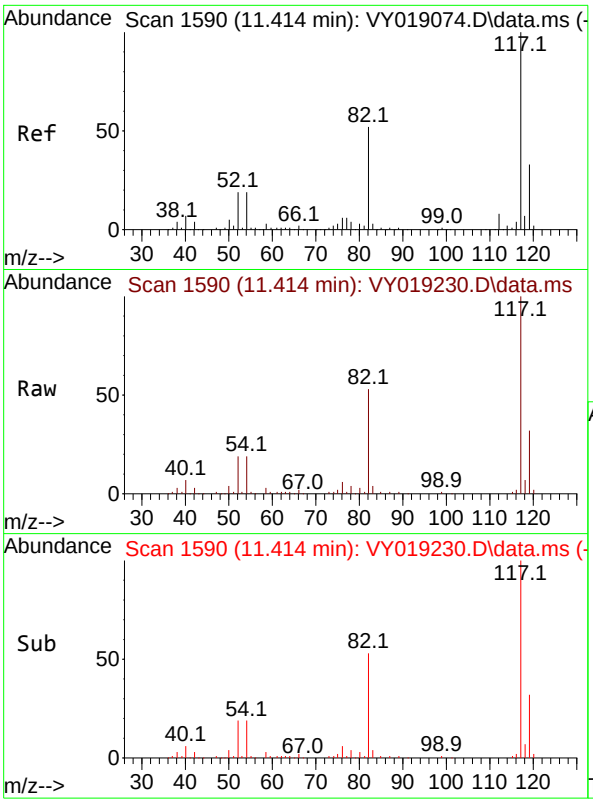


#62
4-Bromofluorobenzene
Concen: 36.808 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019230.D
Acq: 22 Aug 2024 19:10

Tgt Ion: 95 Resp: 47141

Ion	Ratio	Lower	Upper
95	100		
174	88.0	0.0	175.6
176	86.9	0.0	171.4



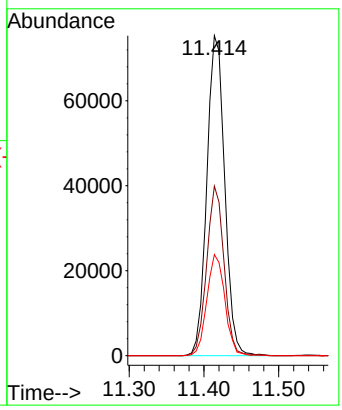


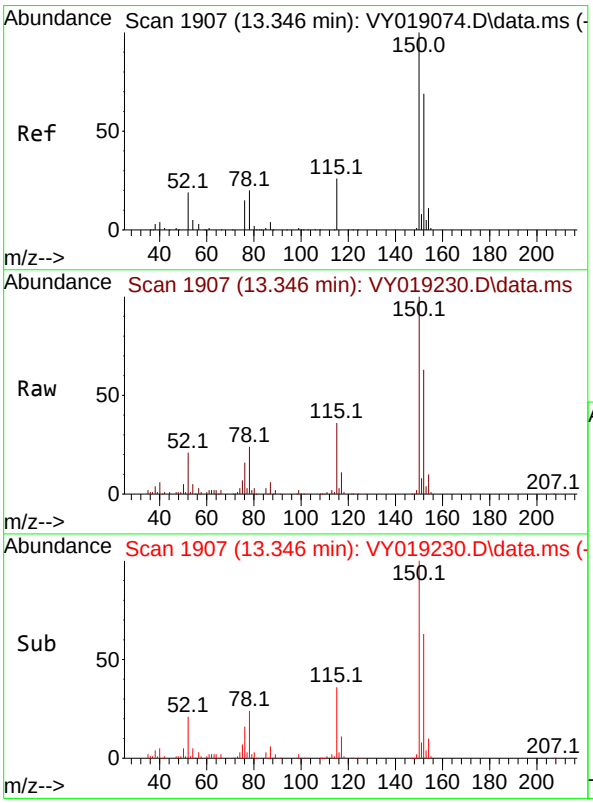
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019230.D
Acq: 22 Aug 2024 19:10

Instrument :
MSVOA_Y
ClientSampleId :
S-912-J-SO-0.5-1-081924

Tgt Ion:117 Resp: 125272

Ion	Ratio	Lower	Upper
117	100		
82	53.0	42.4	63.6
119	31.6	25.9	38.9

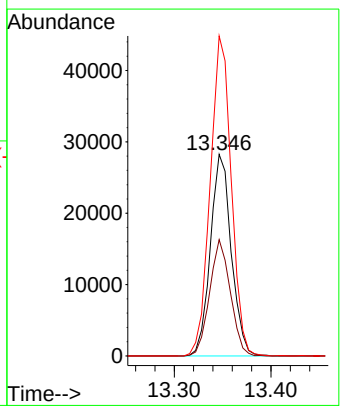




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019230.D
Acq: 22 Aug 2024 19:10

Tgt Ion:152 Resp: 42316

Ion	Ratio	Lower	Upper
152	100		
115	57.1	28.2	84.7
150	159.7	0.0	345.6



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.: P3671 SAS No.: P3671 SDG No.: P3671

Instrument ID: MSVOA_Y Calibration Date(s): 08/15/2024 08/15/2024

Heated Purge: (Y/N) Y Calibration Time(s): 17:24 19:50

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

LAB FILE ID: RRF005 = VY019071.D RRF010 = VY019072.D RRF020 = VY019073.D
RRF050 = VY019074.D RRF100 = VY019075.D RRF150 = VY019076.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.385	0.357	0.408	0.379	0.347	0.325	0.367	8.1
Chloromethane	0.806	0.726	0.670	0.646	0.598	0.523	0.661	14.9
Vinyl Chloride	0.973	0.898	0.841	0.807	0.731	0.651	0.817	14.1
Bromomethane	0.875	0.644	0.567	0.533	0.493	0.446	0.593	25.9
Chloroethane	0.689	0.565	0.526	0.514	0.472	0.415	0.530	17.6
1,1,2-Trichlorotrifluoroethane	0.637	0.607	0.546	0.532	0.504	0.468	0.549	11.5
1,1-Dichloroethene	0.572	0.529	0.486	0.486	0.474	0.446	0.499	8.9
Acetone	0.113	0.087	0.091	0.097	0.087	0.082	0.093	12
Carbon Disulfide	1.597	1.439	1.369	1.410	1.358	1.267	1.407	7.8
Methyl tert-butyl Ether	1.283	1.125	1.221	1.244	1.211	1.171	1.209	4.6
Methylene Chloride	1.695	0.965	0.718	0.595	0.535	0.490	0.833	54.7
trans-1,2-Dichloroethene	0.609	0.587	0.542	0.564	0.543	0.499	0.557	6.9
1,1-Dichloroethane	1.088	0.955	0.919	0.904	0.885	0.819	0.928	9.7
Cyclohexane	1.026	0.907	0.788	0.745	0.721	0.659	0.807	16.8
2-Butanone	0.182	0.132	0.149	0.155	0.144	0.137	0.150	11.9
Carbon Tetrachloride	0.516	0.525	0.512	0.540	0.526	0.502	0.520	2.5
cis-1,2-Dichloroethene	0.730	0.650	0.655	0.655	0.639	0.605	0.656	6.2
Chloroform	1.146	1.034	1.049	1.048	0.999	0.931	1.034	6.8
1,1,1-Trichloroethane	1.007	0.867	0.907	0.920	0.905	0.848	0.909	6.1
Methylcyclohexane	0.598	0.604	0.559	0.582	0.573	0.540	0.576	4.2
Benzene	1.478	1.392	1.371	1.397	1.345	1.278	1.377	4.8
1,2-Dichloroethane	0.416	0.349	0.362	0.385	0.367	0.351	0.372	6.8
Trichloroethene	0.418	0.399	0.383	0.381	0.372	0.351	0.384	6
Bromodichloromethane	0.503	0.476	0.495	0.499	0.487	0.470	0.488	2.7
Toluene	0.955	0.907	0.881	0.912	0.906	0.863	0.904	3.5
1,1,2-Trichloroethane	0.260	0.241	0.266	0.262	0.260	0.248	0.256	3.7
Dibromochloromethane	0.350	0.321	0.353	0.364	0.359	0.347	0.349	4.3
Tetrachloroethene	0.467	0.458	0.437	0.424	0.435	0.400	0.437	5.5
Chlorobenzene	1.226	1.163	1.130	1.151	1.148	1.089	1.151	3.9
Ethyl Benzene	2.078	1.979	1.933	2.016	1.997	1.987	1.998	2.4

* 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.

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.: P3671 SAS No.: P3671 SDG No.: P3671

Instrument ID: MSVOA_Y Calibration Date(s): 08/15/2024 08/15/2024

Heated Purge: (Y/N) Y Calibration Time(s): 17:24 19:50

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

LAB FILE ID: RRF005 = VY019071.D RRF010 = VY019072.D RRF020 = VY019073.D
RRF050 = VY019074.D RRF100 = VY019075.D RRF150 = VY019076.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
m/p-Xylenes	0.798	0.790	0.777	0.805	0.797	0.791	0.793	1.2
o-Xylene	0.724	0.730	0.715	0.768	0.748	0.722	0.734	2.7
Isopropylbenzene	4.002	3.928	3.774	3.851	3.761	3.678	3.832	3.1
1,4-Dichlorobenzene	2.026	1.841	1.795	1.789	1.740	1.634	1.804	7.2
1,2-Dichlorobenzene	1.735	1.613	1.607	1.606	1.550	1.468	1.596	5.5
1,2-Dichloroethane-d4	0.620	0.470	0.522	0.476	0.477	0.443	0.501	12.6
Dibromofluoromethane	0.361	0.315	0.330	0.326	0.320	0.310	0.327	5.5
Toluene-d8	1.290	1.169	1.196	1.138	1.152	1.113	1.177	5.3
4-Bromofluorobenzene	0.449	0.379	0.397	0.407	0.387	0.388	0.401	6.3

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

Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y081524S.M
Title : SW846 8260
Last Update : Fri Aug 16 05:10:30 2024
Response Via : Initial Calibration

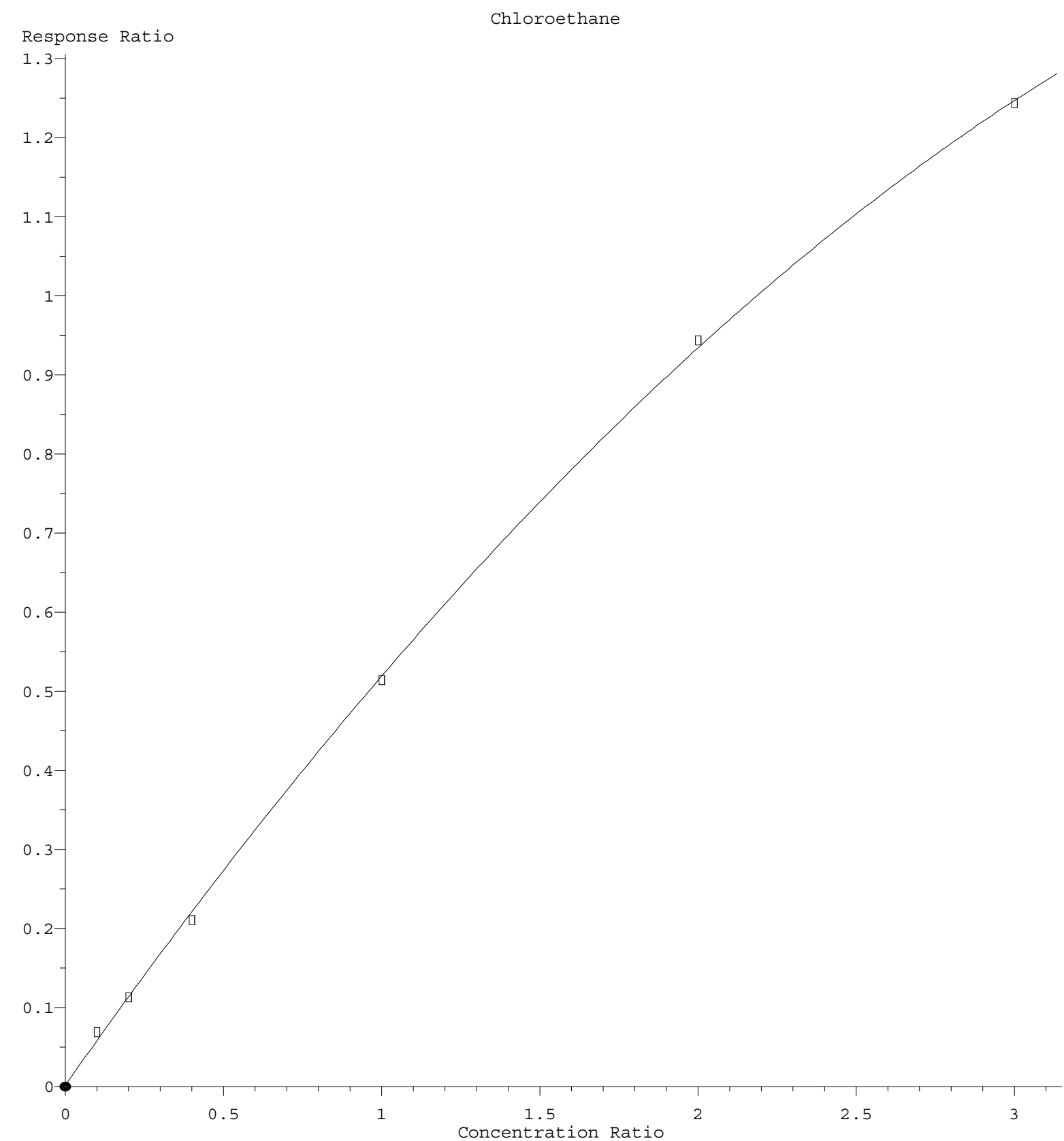
Calibration Files
5 =VY019071.D 10 =VY019072.D 20 =VY019073.D 50 =VY019074.D 100 =VY019075.D 150 =VY019076.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.385	0.357	0.408	0.379	0.347	0.325	0.367	8.10
3)	P	Chloromethane	0.806	0.726	0.670	0.646	0.598	0.523	0.661	14.89
4)	C	Vinyl Chloride	0.973	0.898	0.841	0.807	0.731	0.651	0.817	14.15#
5)	T	Bromomethane	0.875	0.644	0.567	0.533	0.493	0.446	0.593	25.92
6)	T	Chloroethane	0.689	0.565	0.526	0.514	0.472	0.415	0.530	17.61
7)	T	Trichlorofluor...	1.380	1.344	1.288	1.215	1.142	1.040	1.235	10.41
8)	T	Diethyl Ether	0.312	0.274	0.269	0.257	0.249	0.238	0.267	9.66
9)	T	1,1,2-Trichlor...	0.637	0.607	0.546	0.532	0.504	0.468	0.549	11.51
10)	T	Methyl Iodide	0.466	0.518	0.541	0.602	0.577	0.524	0.538	8.86
11)	T	Tert butyl alc...	0.089	0.070	0.060	0.043	0.039	0.038	0.056	36.24
12)	CM	1,1-Dichloroet...	0.572	0.529	0.486	0.486	0.474	0.446	0.499	8.92#
13)	T	Acrolein	0.056	0.041	0.047	0.038	0.037	0.035	0.042	18.27
14)	T	Allyl chloride	0.749	0.669	0.634	0.665	0.649	0.613	0.663	7.08
15)	T	Acrylonitrile	0.119	0.100	0.113	0.114	0.106	0.102	0.109	6.78
16)	T	Acetone	0.113	0.087	0.091	0.097	0.087	0.082	0.093	11.97
17)	T	Carbon Disulfide	1.597	1.439	1.369	1.410	1.358	1.267	1.407	7.82
18)	T	Methyl Acetate	0.343	0.271	0.288	0.280	0.273	0.257	0.285	10.47
19)	T	Methyl tert-bu...	1.283	1.125	1.221	1.244	1.211	1.171	1.209	4.58
20)	T	Methylene Chlo...	1.695	0.965	0.718	0.595	0.535	0.490	0.833	54.67
21)	T	trans-1,2-Dich...	0.609	0.587	0.542	0.564	0.543	0.499	0.557	6.90
22)	T	Diisopropyl ether	1.694	1.475	1.513	1.528	1.490	1.407	1.518	6.31
23)	T	Vinyl Acetate	1.266	1.081	1.200	1.245	1.231	1.188	1.202	5.48
24)	P	1,1-Dichloroet...	1.088	0.955	0.919	0.904	0.885	0.819	0.928	9.72
25)	T	2-Butanone	0.182	0.132	0.149	0.155	0.144	0.137	0.150	11.89
26)	T	2,2-Dichloropr...	0.863	0.767	0.729	0.739	0.729	0.684	0.752	8.09
27)	T	cis-1,2-Dichlo...	0.730	0.650	0.655	0.655	0.639	0.605	0.656	6.25
28)	T	Bromochloromet...	0.474	0.392	0.403	0.366	0.365	0.336	0.389	12.30
29)	T	Tetrahydrofuran	0.111	0.086	0.100	0.097	0.094	0.089	0.096	9.39
30)	C	Chloroform	1.146	1.034	1.049	1.048	0.999	0.931	1.034	6.81#
31)	T	Cyclohexane	1.026	0.907	0.788	0.745	0.721	0.659	0.807	16.77
32)	T	1,1,1-Trichlor...	1.007	0.867	0.907	0.920	0.905	0.848	0.909	6.10
33)	S	1,2-Dichloroet...	0.620	0.470	0.522	0.476	0.477	0.443	0.501	12.64
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.361	0.315	0.330	0.326	0.320	0.310	0.327	5.53
36)	T	1,1-Dichloropr...	0.485	0.473	0.439	0.443	0.437	0.416	0.449	5.71
37)	T	Ethyl Acetate	0.185	0.187	0.190	0.218	0.209	0.203	0.199	6.72
38)	T	Carbon Tetrach...	0.516	0.525	0.512	0.540	0.526	0.502	0.520	2.53
39)	T	Methylcyclohexane	0.598	0.604	0.559	0.582	0.573	0.540	0.576	4.17
40)	TM	Benzene	1.478	1.392	1.371	1.397	1.345	1.278	1.377	4.79
41)	T	Methacrylonitrile	0.102	0.103	0.130	0.120	0.101	0.096	0.109	12.47
42)	TM	1,2-Dichloroet...	0.416	0.349	0.362	0.385	0.367	0.351	0.372	6.77
43)	T	Isopropyl Acetate	0.399	0.376	0.414	0.420	0.408	0.396	0.402	3.88
44)	TM	Trichloroethene	0.418	0.399	0.383	0.381	0.372	0.351	0.384	6.00
45)	C	1,2-Dichloropr...	0.339	0.300	0.312	0.310	0.296	0.285	0.307	5.99#
46)	T	Dibromomethane	0.206	0.189	0.199	0.209	0.199	0.191	0.199	4.05
47)	T	Bromodichlorom...	0.503	0.476	0.495	0.499	0.487	0.470	0.488	2.71
48)	T	Methyl methacr...	0.170	0.157	0.178	0.190	0.191	0.190	0.179	7.70
49)	T	1,4-Dioxane	0.003	0.002	0.002	0.002	0.002	0.002	0.002	6.23
50)	S	Toluene-d8	1.290	1.169	1.196	1.138	1.152	1.113	1.177	5.30
51)	T	4-Methyl-2-Pen...	0.214	0.193	0.210	0.232	0.219	0.213	0.213	5.87
52)	CM	Toluene	0.955	0.907	0.881	0.912	0.906	0.863	0.904	3.48#
53)	T	t-1,3-Dichloro...	0.404	0.356	0.394	0.425	0.432	0.420	0.405	6.88
54)	T	cis-1,3-Dichlo...	0.498	0.446	0.478	0.520	0.499	0.480	0.487	5.14
55)	T	1,1,2-Trichlor...	0.260	0.241	0.266	0.262	0.260	0.248	0.256	3.74
56)	T	Ethyl methacry...	0.307	0.301	0.333	0.361	0.360	0.350	0.335	7.85

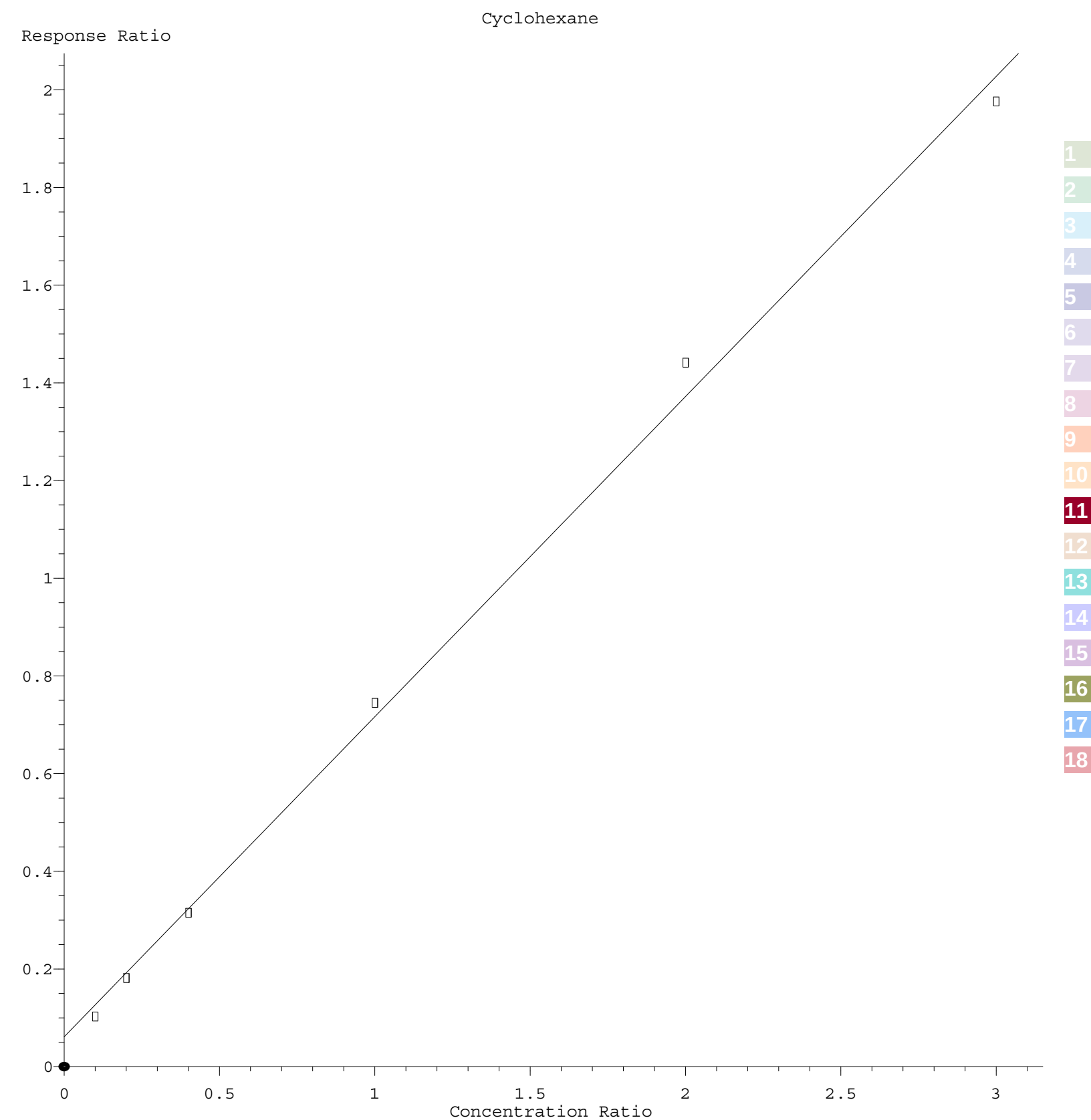
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y081524S.M

57)	T	1,3-Dichloropr...	0.443	0.394	0.423	0.434	0.415	0.396	0.418	4.76
58)	T	2-Chloroethyl ...	0.160	0.142	0.161	0.162	0.167	0.162	0.159	5.43
59)	T	2-Hexanone	0.137	0.131	0.147	0.159	0.153	0.153	0.147	7.23
60)	T	Dibromochlorom...	0.350	0.321	0.353	0.364	0.359	0.347	0.349	4.31
61)	T	1,2-Dibromoethane	0.248	0.226	0.252	0.260	0.252	0.247	0.248	4.56
62)	S	4-Bromofluorob...	0.449	0.379	0.397	0.407	0.387	0.388	0.401	6.31
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.467	0.458	0.437	0.424	0.435	0.400	0.437	5.53
65)	PM	Chlorobenzene	1.226	1.163	1.130	1.151	1.148	1.089	1.151	3.89
66)	T	1,1,1,2-Tetrac...	0.429	0.387	0.398	0.409	0.407	0.399	0.405	3.49
67)	C	Ethyl Benzene	2.078	1.979	1.933	2.016	1.997	1.987	1.998	2.39#
68)	T	m/p-Xylenes	0.798	0.790	0.777	0.805	0.797	0.791	0.793	1.20
69)	T	o-Xylene	0.724	0.730	0.715	0.768	0.748	0.722	0.734	2.70
70)	T	Styrene	1.238	1.172	1.234	1.308	1.329	1.232	1.252	4.57
71)	P	Bromoform	0.230	0.203	0.226	0.246	0.245	0.238	0.231	6.97
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	4.002	3.928	3.774	3.851	3.761	3.678	3.832	3.10
74)	T	N-amyl acetate	0.857	0.733	0.839	0.874	0.830	0.879	0.836	6.43
75)	P	1,1,2,2-Tetrac...	0.817	0.666	0.680	0.685	0.626	0.620	0.682	10.47
76)	T	1,2,3-Trichlor...	0.587	0.560	0.475	0.474	0.425	0.437	0.493	13.43
77)	T	Bromobenzene	0.988	0.939	0.917	0.912	0.895	0.872	0.920	4.37
78)	T	n-propylbenzene	4.908	4.766	4.494	4.599	4.472	4.247	4.581	5.09
79)	T	2-Chlorotoluene	2.760	2.642	2.523	2.570	2.511	2.404	2.568	4.75
80)	T	1,3,5-Trimethy...	3.209	3.186	3.120	3.158	3.123	2.936	3.122	3.12
81)	T	trans-1,4-Dich...	0.208	0.192	0.194	0.204	0.198	0.201	0.200	3.01
82)	T	4-Chlorotoluene	2.840	2.740	2.629	2.671	2.669	2.484	2.672	4.43
83)	T	tert-Butylbenzene	2.968	2.892	2.893	2.883	2.954	2.707	2.883	3.24
84)	T	1,2,4-Trimethy...	3.133	3.153	3.118	3.143	3.181	2.942	3.112	2.76
85)	T	sec-Butylbenzene	4.370	4.326	4.204	4.209	4.279	3.821	4.201	4.70
86)	T	p-Isopropyltol...	3.381	3.537	3.408	3.513	3.605	3.261	3.451	3.62
87)	T	1,3-Dichlorobe...	1.961	1.824	1.750	1.810	1.853	1.692	1.815	5.06
88)	T	1,4-Dichlorobe...	2.026	1.841	1.795	1.789	1.740	1.634	1.804	7.18
89)	T	n-Butylbenzene	3.136	3.222	3.209	3.248	3.150	2.912	3.146	3.89
90)	T	Hexachloroethane	0.668	0.689	0.693	0.696	0.692	0.644	0.680	3.00
91)	T	1,2-Dichlorobe...	1.735	1.613	1.607	1.606	1.550	1.468	1.596	5.49
92)	T	1,2-Dibromo-3-...	0.104	0.091	0.104	0.103	0.102	0.098	0.100	5.05
93)	T	1,2,4-Trichlor...	0.894	0.838	0.899	0.932	0.941	0.897	0.900	4.02
94)	T	Hexachlorobuta...	0.508	0.452	0.429	0.496	0.485	0.443	0.469	6.82
95)	T	Naphthalene	1.371	1.400	1.484	1.796	1.814	1.774	1.607	13.05
96)	T	1,2,3-Trichlor...	0.739	0.698	0.715	0.814	0.816	0.774	0.759	6.60

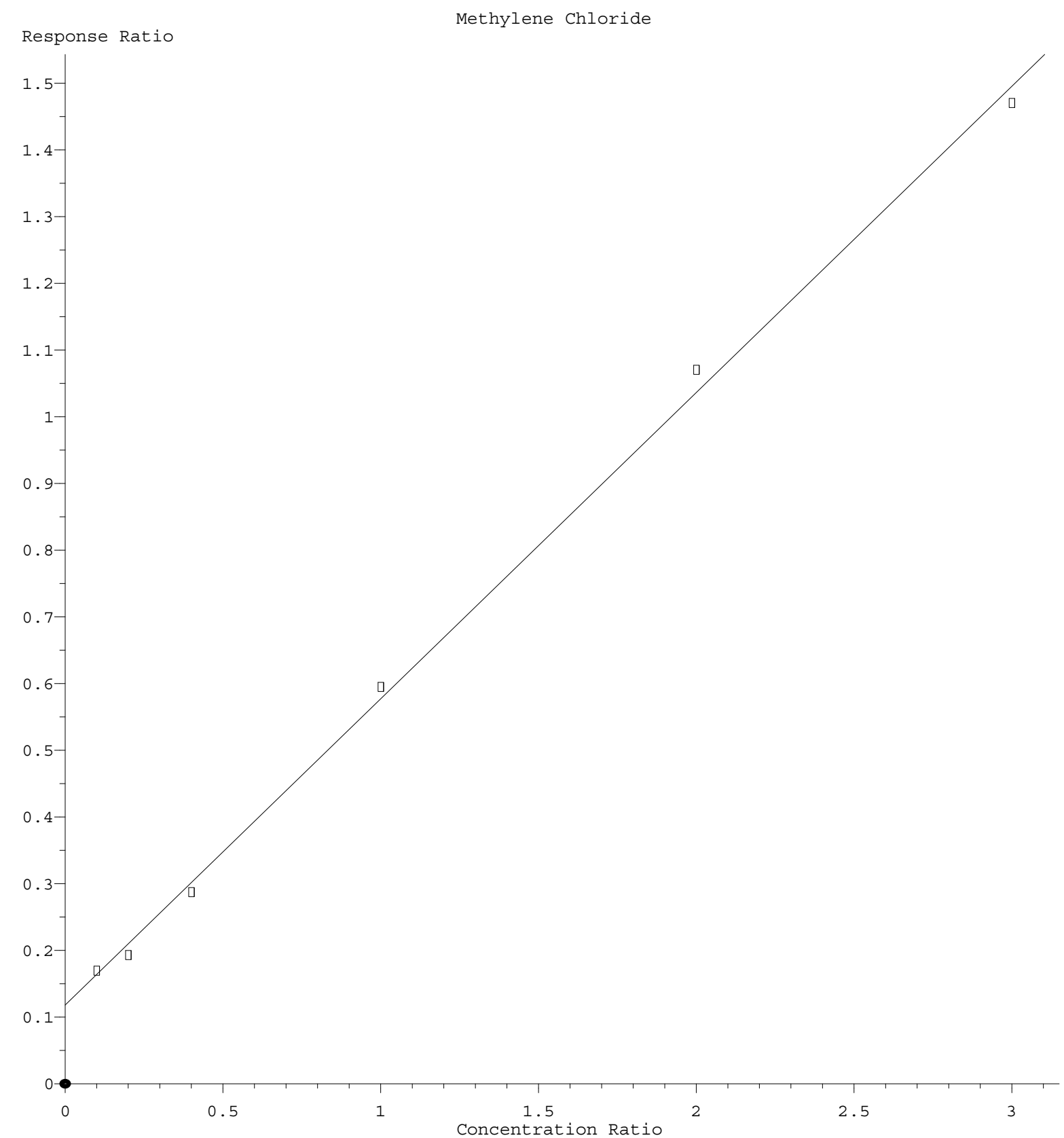
(#) = Out of Range



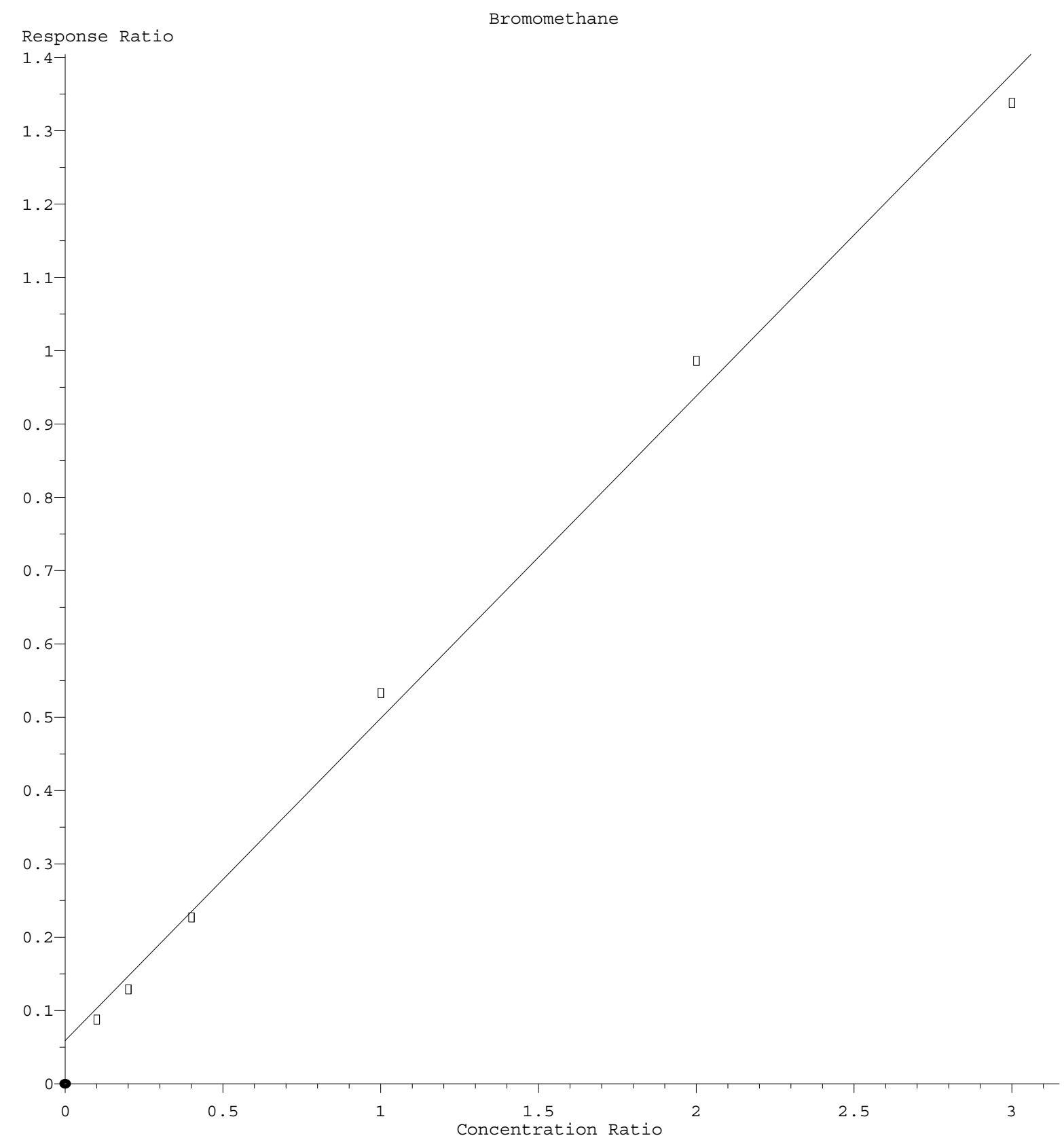
R = -5.108e-002 A*A + 5.682e-001 A + 2.056e-003
Coef of Det (r^2) = 0.999699 Curve Fit: Quadratic
Method: C:\msdchem\4\data\vp5srv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Calibration Table Last Updated: Fri Aug 16 05:10:30 2024



Response = 6.556e-001 * Amt + 6.137e-002
Coef of Det (r^2) = 0.996905 Curve Fit: Linear
Method: C:\msdchem\1\methods\82Y081524S.M
Calibration Table Last Updated: Fri Aug 16 05:10:30 2024



Response = 4.592e-001 * Amt + 1.181e-001
Coef of Det (r^2) = 0.998148 Curve Fit: Linear
Method: C:\msdchem\4\groups\hpsrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Calibration Table Last Updated: Fri Aug 16 05:10:30 2024



Response = 4.397e-001 * Amt + 5.896e-002
Coef of Det (r^2) = 0.995637 Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Calibration Table Last Updated: Fri Aug 16 05:10:30 2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019071.D
Acq On : 15 Aug 2024 17:24
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 04:55:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.695	168	110476	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.603	114	187167	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	158917	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	73893	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.048	65	6848	6.184	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	12.360%#			
35) Dibromofluoromethane	7.622	113	6753	5.518	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	11.040%#			
50) Toluene-d8	10.103	98	24147	5.483	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	10.960%#			
62) 4-Bromofluorobenzene	12.407	95	8401	5.596	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	11.200%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.860	85	4256	5.251	ug/l		99
3) Chloromethane	2.068	50	8902	6.093	ug/l		95
4) Vinyl Chloride	2.196	62	10752	5.958	ug/l		95
5) Bromomethane	2.592	94	9669	3.247	ug/l		97
6) Chloroethane	2.726	64	7615	5.948	ug/l		91
7) Trichlorofluoromethane	3.043	101	15243	5.587	ug/l		98
8) Diethyl Ether	3.446	74	3443	5.846	ug/l		97
9) 1,1,2-Trichlorotrifluo...	3.799	101	7032	5.797	ug/l		96
10) Methyl Iodide	3.988	142	5152	4.333	ug/l	#	93
11) Tert butyl alcohol	4.829	59	4916	12.762	ug/l	#	96
12) 1,1-Dichloroethene	3.775	96	6315	5.730	ug/l		96
13) Acrolein	3.634	56	3078	18.781	ug/l		99
14) Allyl chloride	4.372	41	8275	5.648	ug/l		94
15) Acrylonitrile	5.037	53	6580	27.306	ug/l		95
16) Acetone	3.860	43	6249	30.427	ug/l	#	82
17) Carbon Disulfide	4.092	76	17643	5.676	ug/l		98
18) Methyl Acetate	4.372	43	3784	6.003	ug/l		90
19) Methyl tert-butyl Ether	5.092	73	14172	5.304	ug/l		97
20) Methylene Chloride	4.604	84	18729	5.603	ug/l		97
21) trans-1,2-Dichloroethene	5.092	96	6726	5.463	ug/l		91
22) Diisopropyl ether	5.994	45	18713	5.579	ug/l	#	84
23) Vinyl Acetate	5.939	43	69947	26.341	ug/l		98
24) 1,1-Dichloroethane	5.896	63	12021	5.860	ug/l		98
25) 2-Butanone	6.878	43	10037	30.346	ug/l		97
26) 2,2-Dichloropropane	6.866	77	9537	5.742	ug/l		98
27) cis-1,2-Dichloroethene	6.878	96	8063	5.565	ug/l		91
28) Bromochloromethane	7.219	49	5242	6.092	ug/l	#	100
29) Tetrahydrofuran	7.237	42	6144	28.897	ug/l	#	87
30) Chloroform	7.402	83	12657	5.538	ug/l		95
31) Cyclohexane	7.689	56	11330	3.141	ug/l	#	87
32) 1,1,1-Trichloroethane	7.603	97	11129	5.541	ug/l		98
36) 1,1-Dichloropropene	7.823	75	9086	5.407	ug/l		96
37) Ethyl Acetate	6.963	43	3469	4.659	ug/l		96
38) Carbon Tetrachloride	7.804	117	9665	4.963	ug/l		93
39) Methylcyclohexane	9.103	83	11201	5.194	ug/l		99
40) Benzene	8.067	78	27662	5.367	ug/l		92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019071.D
Acq On : 15 Aug 2024 17:24
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 16 04:55:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.201	41	1903m	4.943	ug/l		
42) 1,2-Dichloroethane	8.146	62	7787	5.595	ug/l		98
43) Isopropyl Acetate	8.189	43	7460	4.954	ug/l	#	80
44) Trichloroethene	8.853	130	7832	5.446	ug/l		93
45) 1,2-Dichloropropane	9.133	63	6337	5.518	ug/l		97
46) Dibromomethane	9.219	93	3864	5.188	ug/l		95
47) Bromodichloromethane	9.414	83	9412	5.151	ug/l		89
48) Methyl methacrylate	9.207	41	3182	4.742	ug/l	#	87
49) 1,4-Dioxane	9.213	88	984	109.063	ug/l	#	91
51) 4-Methyl-2-Pentanone	9.993	43	20015	25.044	ug/l		90
52) Toluene	10.164	92	17877	5.284	ug/l		94
53) t-1,3-Dichloropropene	10.389	75	7562	4.989	ug/l	#	87
54) cis-1,3-Dichloropropene	9.847	75	9327	5.116	ug/l		95
55) 1,1,2-Trichloroethane	10.566	97	4868	5.077	ug/l		93
56) Ethyl methacrylate	10.438	69	5751	4.582	ug/l	#	76
57) 1,3-Dichloropropane	10.712	76	8290	5.304	ug/l		97
58) 2-Chloroethyl Vinyl ether	9.707	63	15016	25.221	ug/l		99
59) 2-Hexanone	10.761	43	12811	23.332	ug/l		95
60) Dibromochloromethane	10.901	129	6552	5.017	ug/l		97
61) 1,2-Dibromoethane	11.011	107	4651	5.019	ug/l		94
64) Tetrachloroethene	10.645	164	7429	5.348	ug/l		95
65) Chlorobenzene	11.444	112	19482	5.324	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.511	131	6814	5.295	ug/l		93
67) Ethyl Benzene	11.517	91	33018	5.199	ug/l		97
68) m/p-Xylenes	11.627	106	25348	10.058	ug/l		95
69) o-Xylene	11.950	106	11510	4.932	ug/l		100
70) Styrene	11.968	104	19672	4.943	ug/l		98
71) Bromoform	12.127	173	3656	4.970	ug/l	#	94
73) Isopropylbenzene	12.255	105	29569	5.221	ug/l		100
74) N-amyl acetate	12.072	43	6335	5.130	ug/l		92
75) 1,1,2,2-Tetrachloroethane	12.505	83	6038	5.988	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	4341m	6.185	ug/l		
77) Bromobenzene	12.529	156	7303	5.369	ug/l		97
78) n-propylbenzene	12.596	91	36268	5.357	ug/l		99
79) 2-Chlorotoluene	12.682	91	20394	5.373	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	23712	5.139	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	1534	5.199	ug/l	#	85
82) 4-Chlorotoluene	12.779	91	20986	5.314	ug/l		98
83) tert-Butylbenzene	12.999	119	21933	5.148	ug/l		99
84) 1,2,4-Trimethylbenzene	13.041	105	23152	5.035	ug/l		97
85) sec-Butylbenzene	13.175	105	32294	5.201	ug/l		99
86) p-Isopropyltoluene	13.291	119	24986	4.899	ug/l		95
87) 1,3-Dichlorobenzene	13.285	146	14490	5.402	ug/l		99
88) 1,4-Dichlorobenzene	13.364	146	14972	5.615	ug/l		97
89) n-Butylbenzene	13.614	91	23174	4.984	ug/l		99
90) Hexachloroethane	13.883	117	4937	4.911	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	12818	5.433	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	767	5.171	ug/l		87
93) 1,2,4-Trichlorobenzene	14.919	180	6606	4.965	ug/l		93
94) Hexachlorobutadiene	15.029	225	3754	5.417	ug/l		100
95) Naphthalene	15.145	128	10134	4.268	ug/l		95
96) 1,2,3-Trichlorobenzene	15.334	180	5464	4.869	ug/l		94

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019071.D
Acq On : 15 Aug 2024 17:24
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 04:55:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

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

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

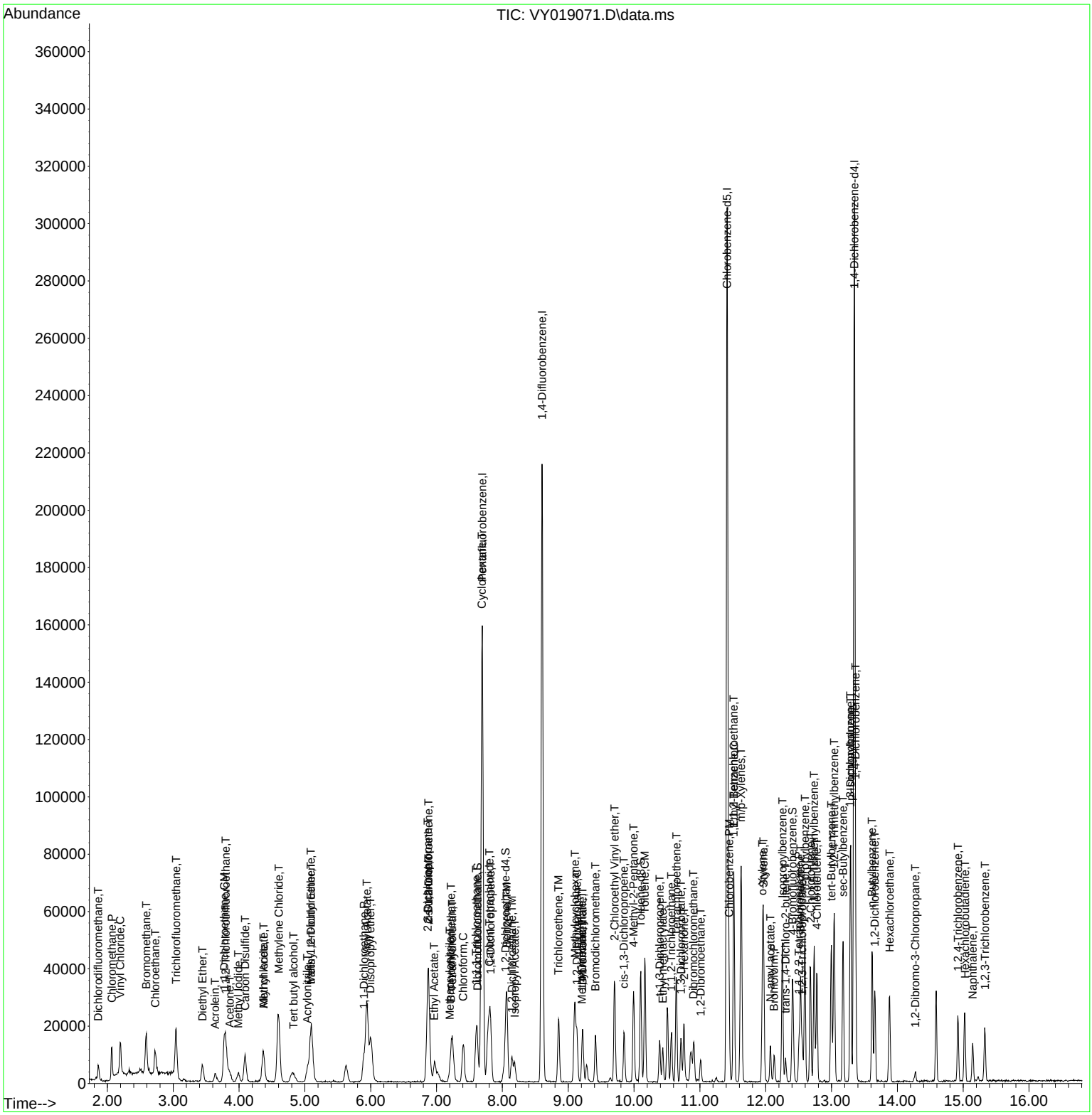
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019071.D
Acq On : 15 Aug 2024 17:24
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

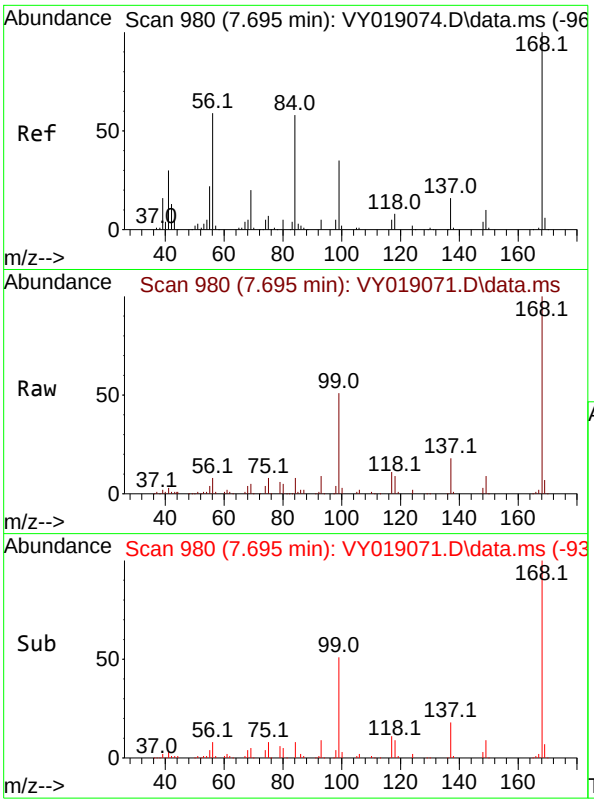
Quant Time: Aug 16 04:55:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

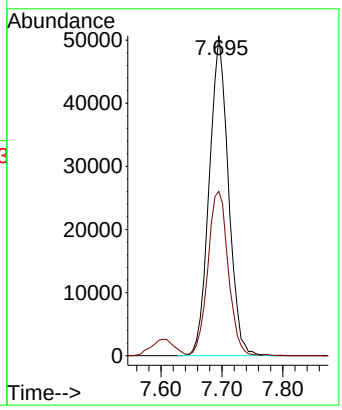




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:168 Resp: 11047

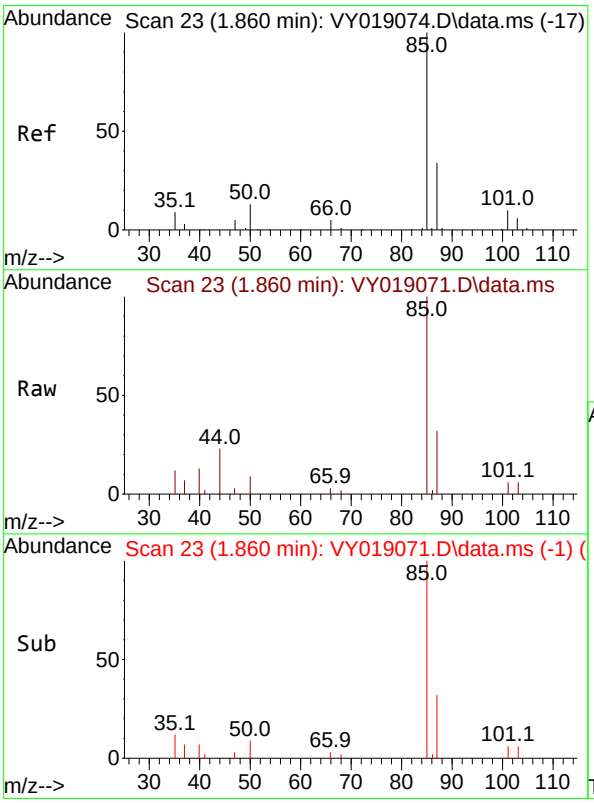
Ion	Ratio	Lower	Upper
168	100		
99	51.3	39.1	58.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

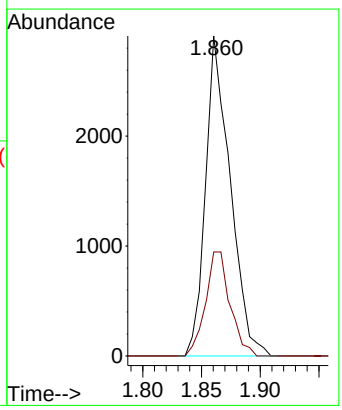
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

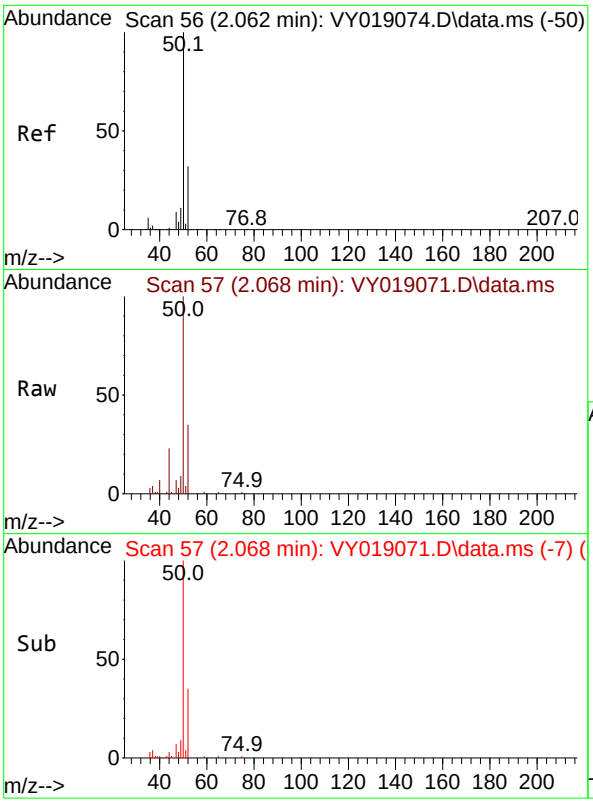


#2
Dichlorodifluoromethane
Concen: 5.251 ug/l
RT: 1.860 min Scan# 23
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 85 Resp: 4256

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.0	48.0

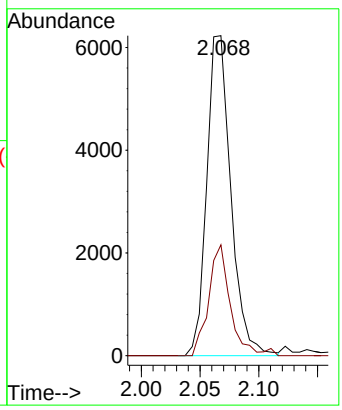




#3
Chloromethane
Concen: 6.093 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 50 Resp: 890

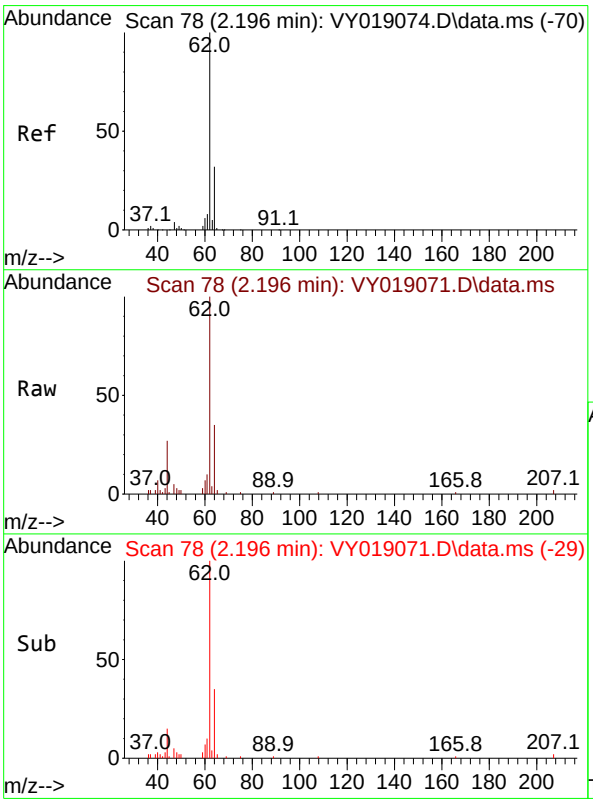
Ion	Ratio	Lower	Upper
50	100		
52	34.6	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

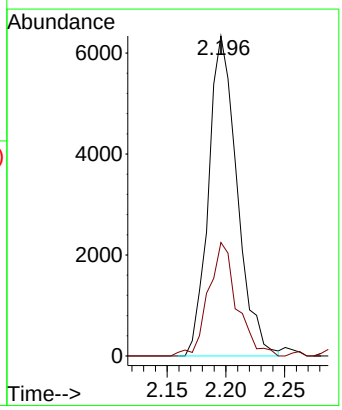
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

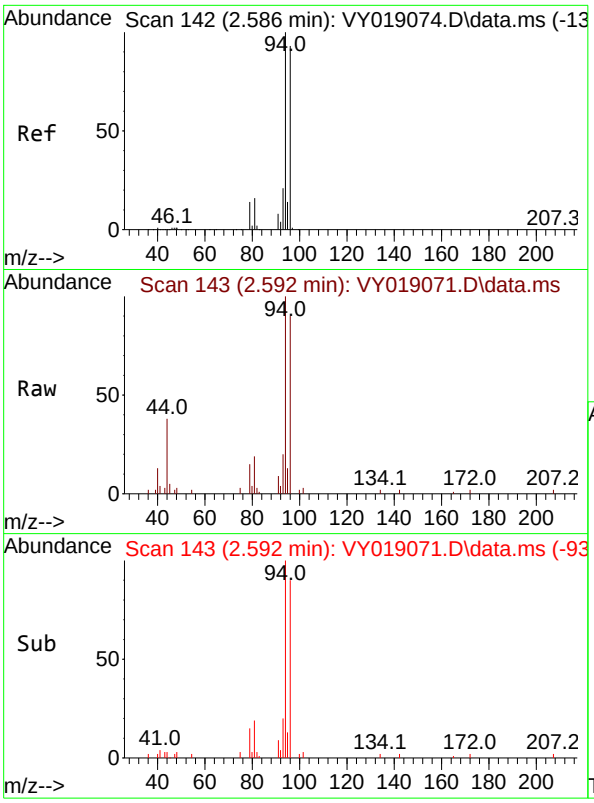


#4
Vinyl Chloride
Concen: 5.958 ug/l
RT: 2.196 min Scan# 78
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 62 Resp: 10752

Ion	Ratio	Lower	Upper
62	100		
64	35.5	26.1	39.1

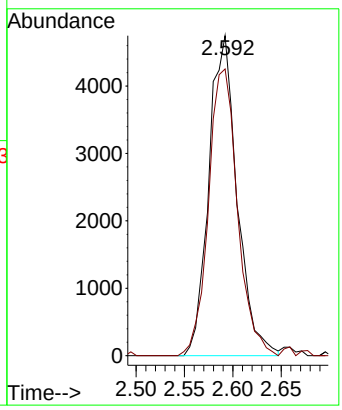




#5
Bromomethane
Concen: 3.247 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 94 Resp: 966

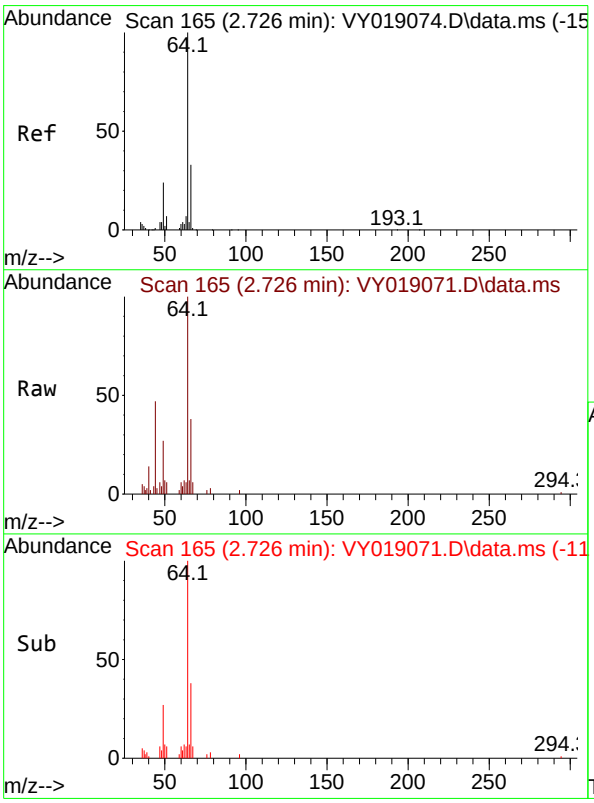
Ion	Ratio	Lower	Upper
94	100		
96	89.6	74.1	111.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

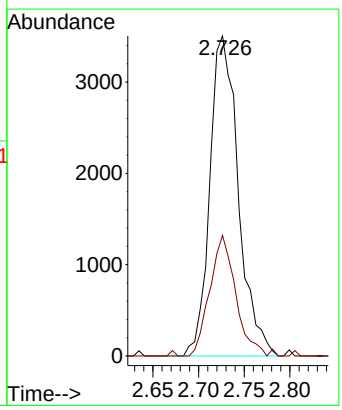
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

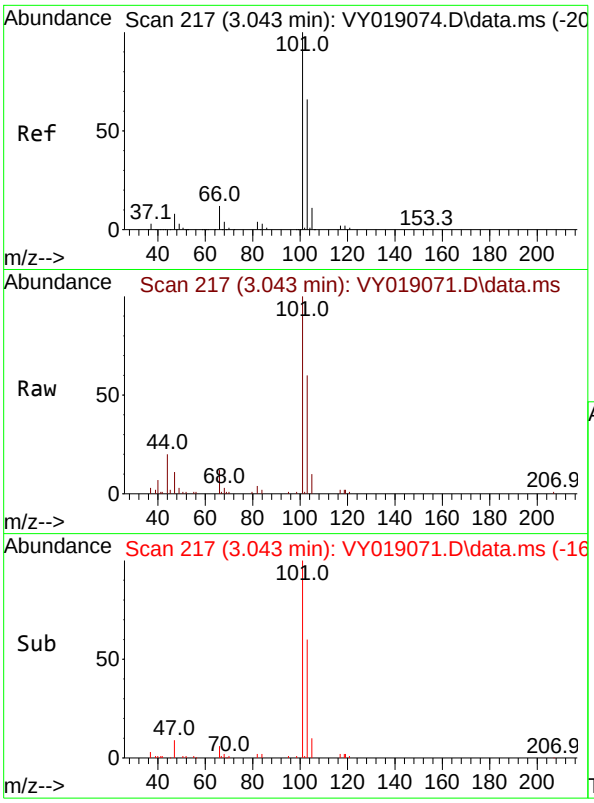


#6
Chloroethane
Concen: 5.948 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 64 Resp: 7615

Ion	Ratio	Lower	Upper
64	100		
66	37.7	26.1	39.1

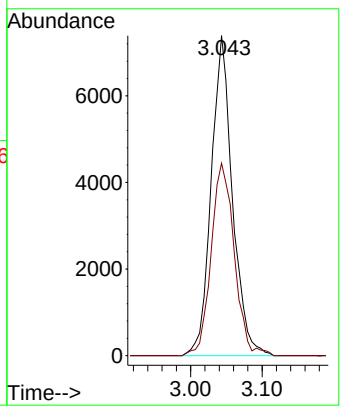




#7
Trichlorofluoromethane
Concen: 5.587 ug/l
RT: 3.043 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:101 Resp: 1524

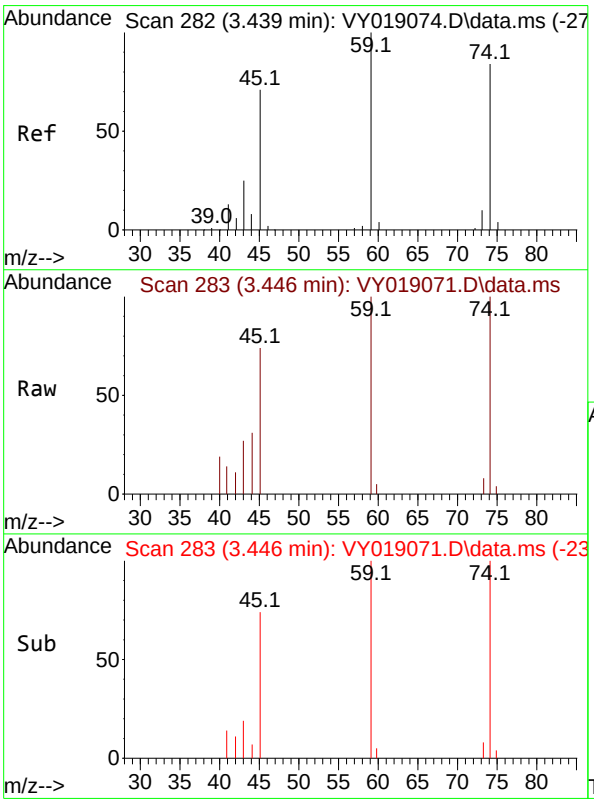
Ion	Ratio	Lower	Upper
101	100		
103	60.1	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

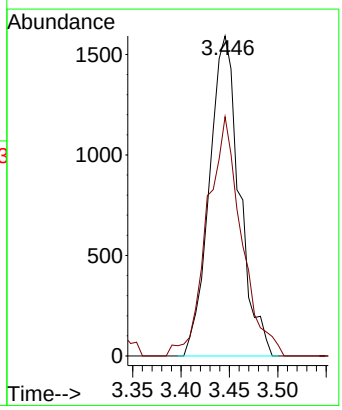
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

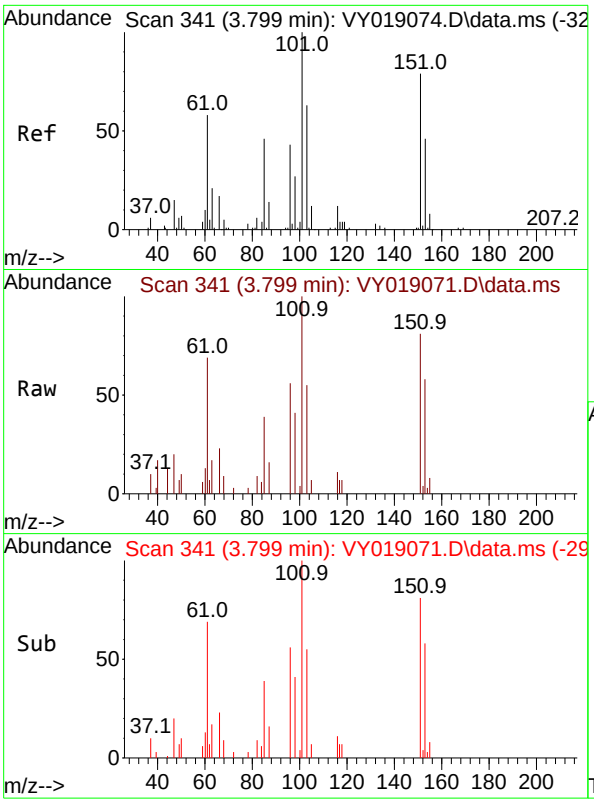


#8
Diethyl Ether
Concen: 5.846 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 74 Resp: 3443

Ion	Ratio	Lower	Upper
74	100		
45	85.5	41.3	124.1

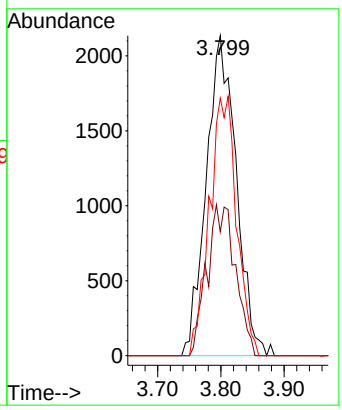




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.797 ug/l
RT: 3.799 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:101 Resp: 703

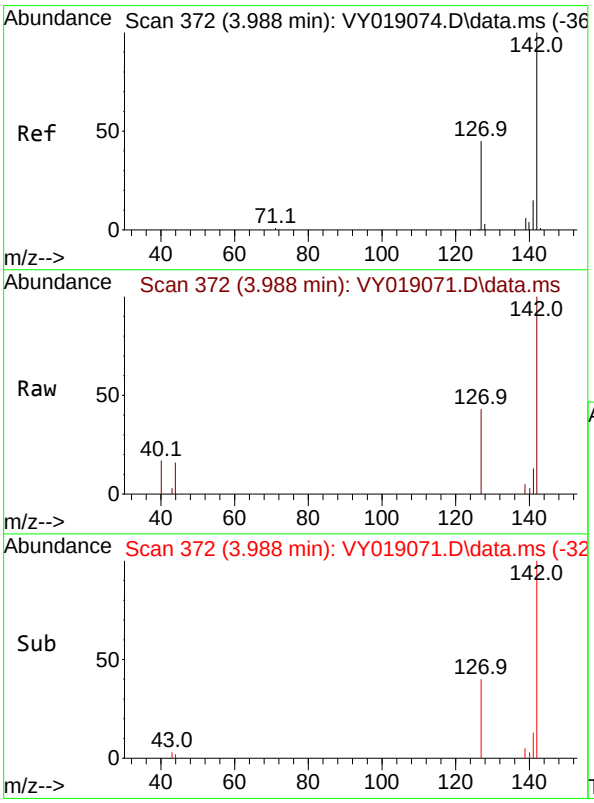
Ion	Ratio	Lower	Upper
101	100		
85	44.9	34.5	51.7
151	73.5	61.7	92.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

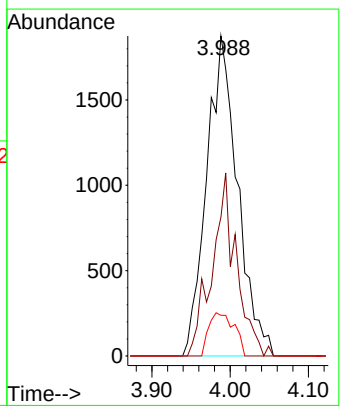
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

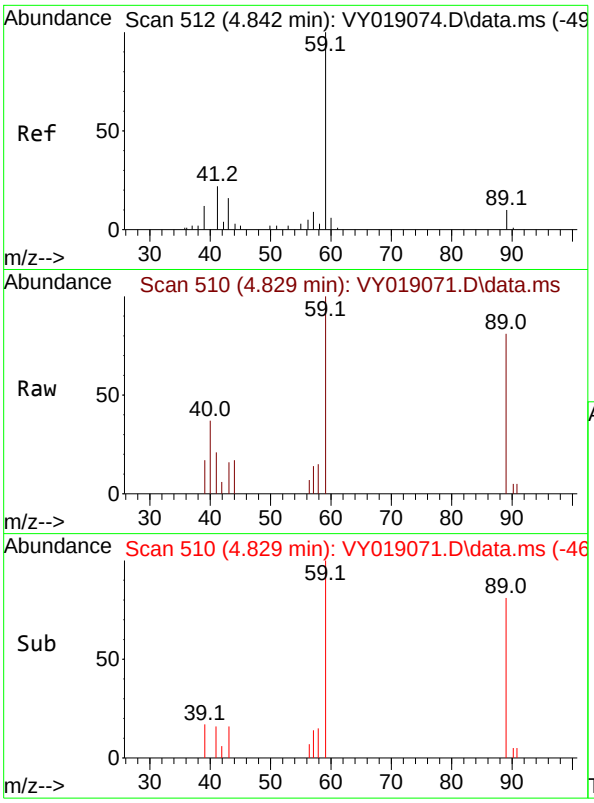


#10
Methyl Iodide
Concen: 4.333 ug/l
RT: 3.988 min Scan# 372
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:142 Resp: 5152

Ion	Ratio	Lower	Upper
142	100		
127	45.0	32.8	49.2
141	11.0	11.4	17.2#

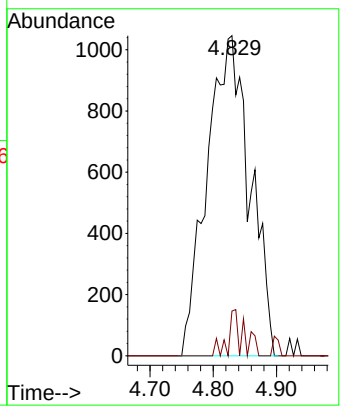




#11
Tert butyl alcohol
Concen: 12.762 ug/l
RT: 4.829 min Scan# 5
Delta R.T. -0.013 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 59 Resp: 491

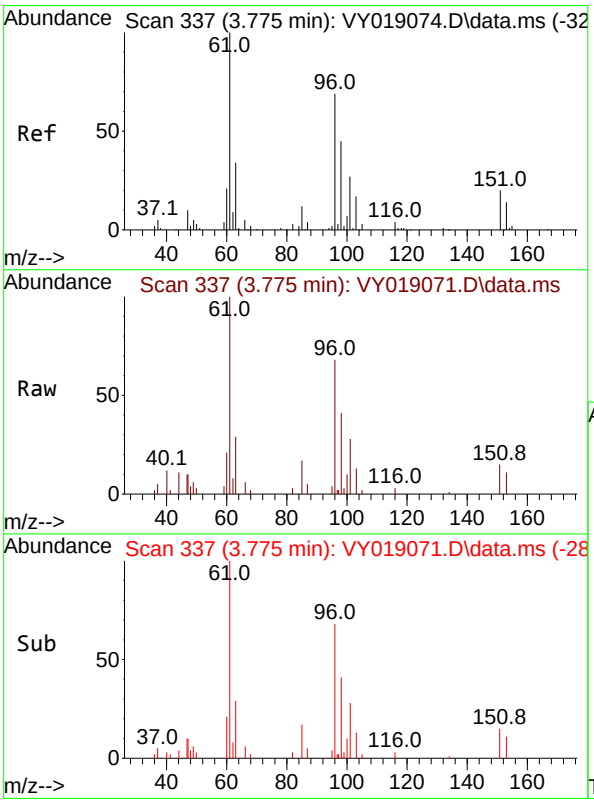
Ion	Ratio	Lower	Upper
59	100		
57	2.6	3.0	4.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

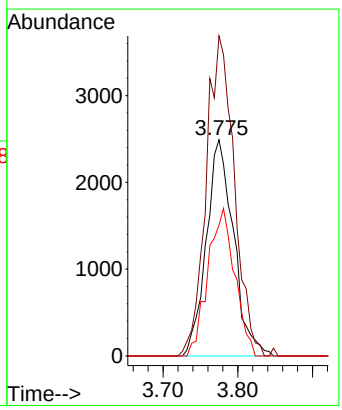
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

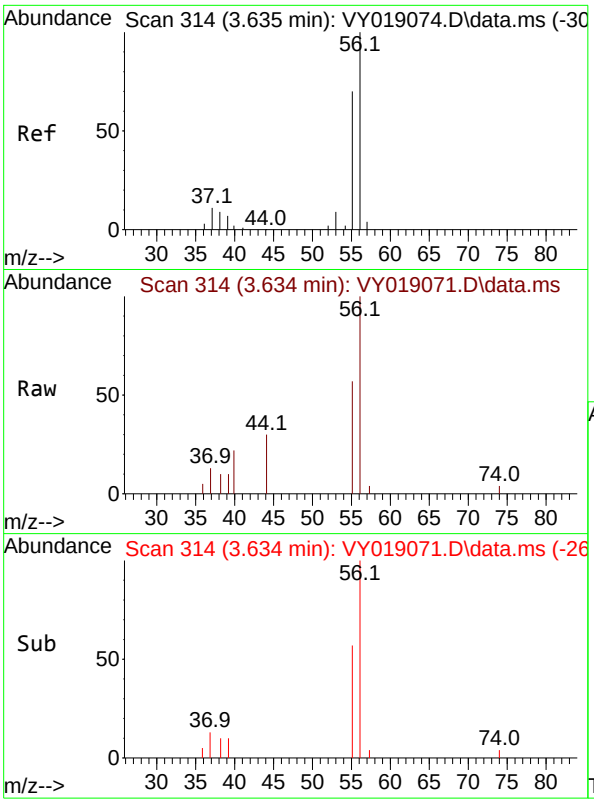


#12
1,1-Dichloroethene
Concen: 5.730 ug/l
RT: 3.775 min Scan# 337
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 96 Resp: 6315

Ion	Ratio	Lower	Upper
96	100		
61	148.1	114.6	171.8
98	60.6	50.8	76.2

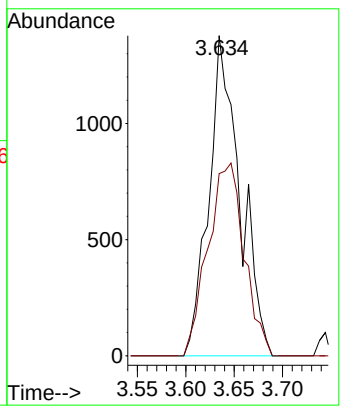




#13
Acrolein
Concen: 18.781 ug/l
RT: 3.634 min Scan# 3
Delta R.T. -0.001 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 56 Resp: 307

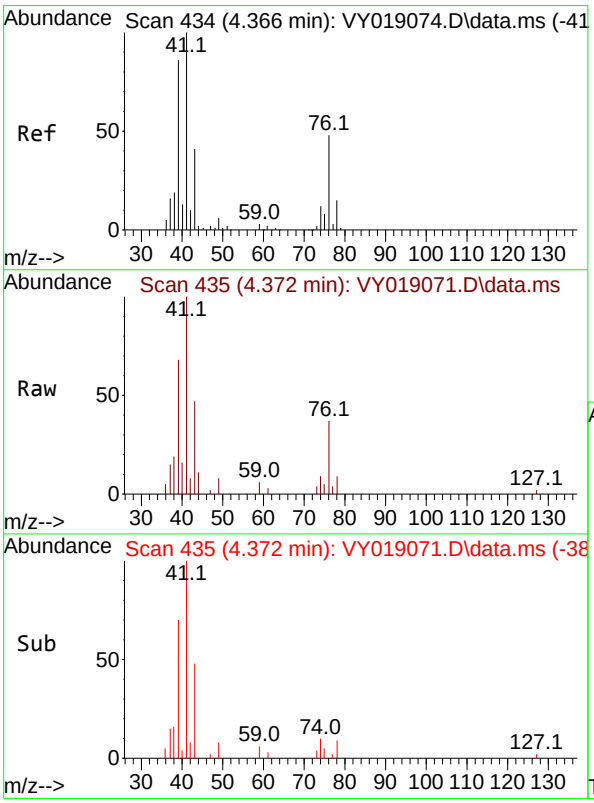
Ion	Ratio	Lower	Upper
56	100		
55	70.2	55.7	83.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

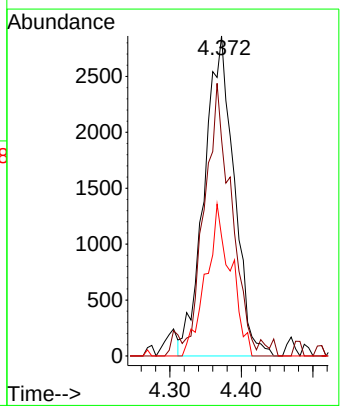
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

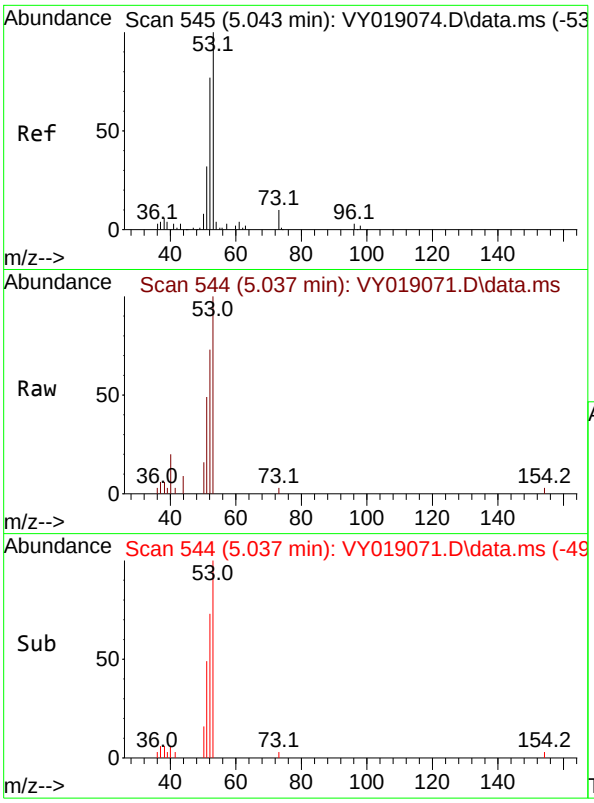


#14
Allyl chloride
Concen: 5.648 ug/l
RT: 4.372 min Scan# 435
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 41 Resp: 8275

Ion	Ratio	Lower	Upper
41	100		
39	73.6	58.3	87.5
76	39.8	39.0	58.6





#15
Acrylonitrile
Concen: 27.306 ug/l
RT: 5.037 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

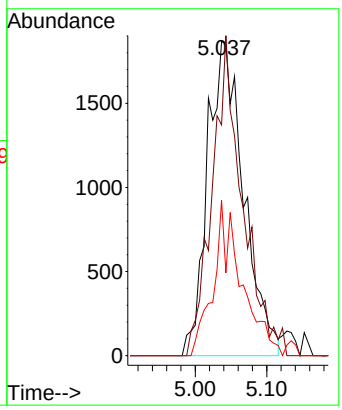
Tgt Ion: 53 Resp: 658

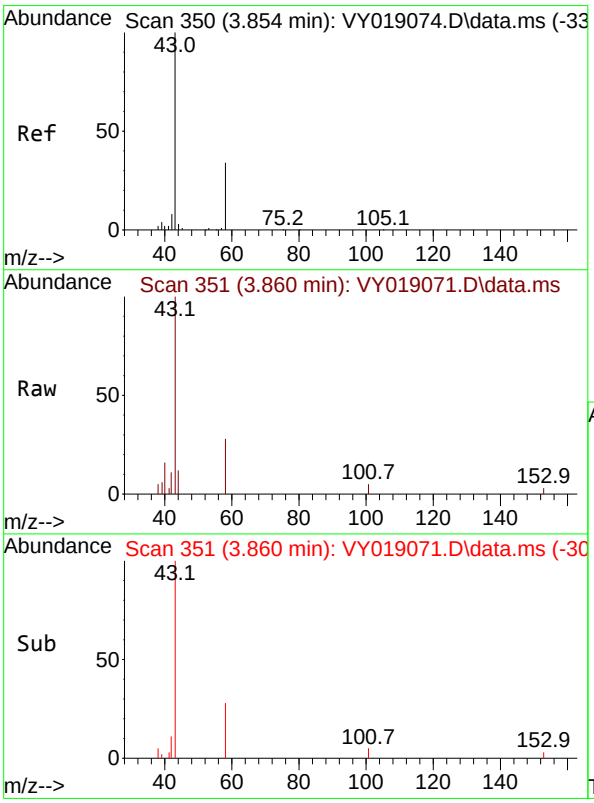
Ion	Ratio	Lower	Upper
53	100		
52	85.1	64.7	97.1
51	38.1	28.4	42.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

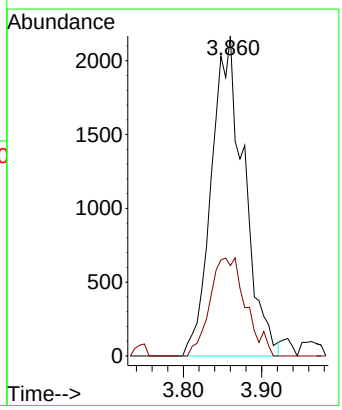


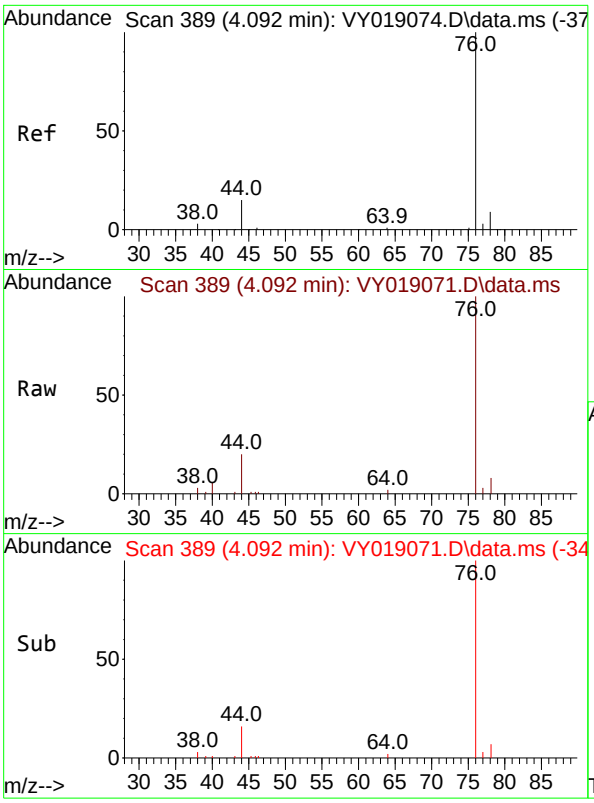


#16
Acetone
Concen: 30.427 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 43 Resp: 6249

Ion	Ratio	Lower	Upper
43	100		
58	28.2	31.7	47.5#

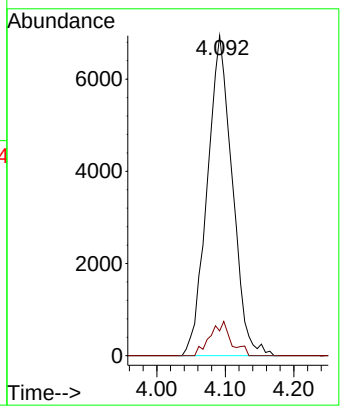




#17
Carbon Disulfide
Concen: 5.676 ug/l
RT: 4.092 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 76 Resp: 1764

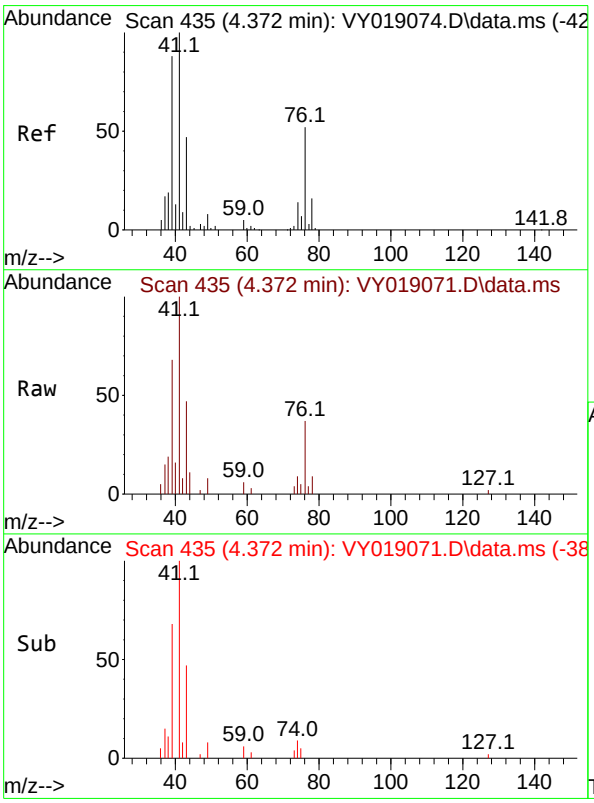
Ion	Ratio	Lower	Upper
76	100		
78	7.8	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

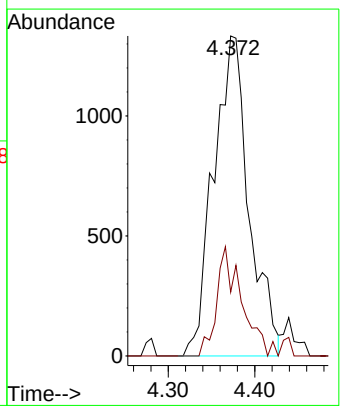
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

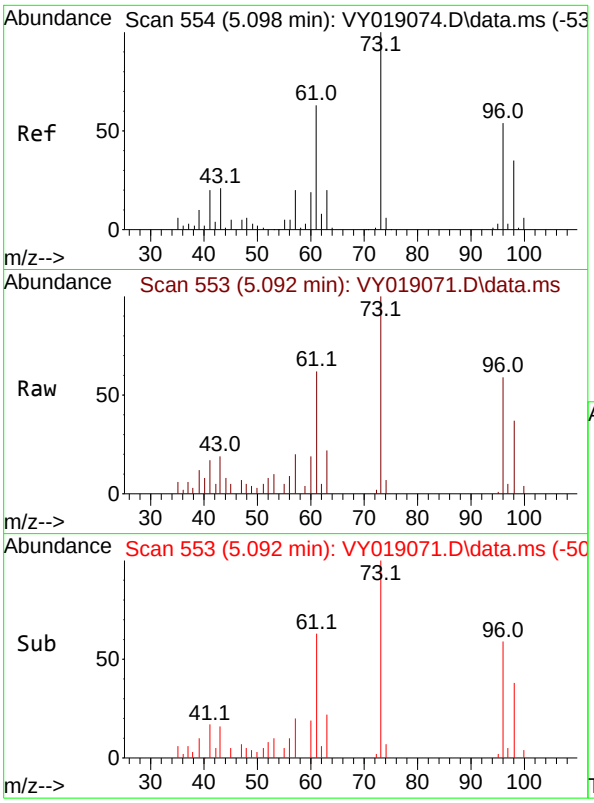


#18
Methyl Acetate
Concen: 6.003 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 43 Resp: 3784

Ion	Ratio	Lower	Upper
43	100		
74	23.7	23.3	34.9

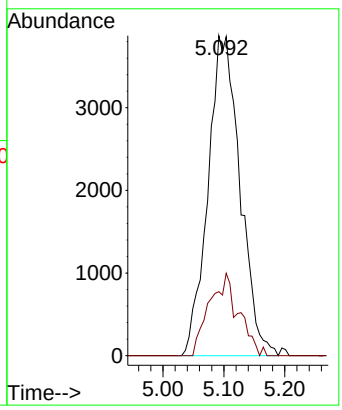




#19
Methyl tert-butyl Ether
Concen: 5.304 ug/l
RT: 5.092 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 73 Resp: 1417

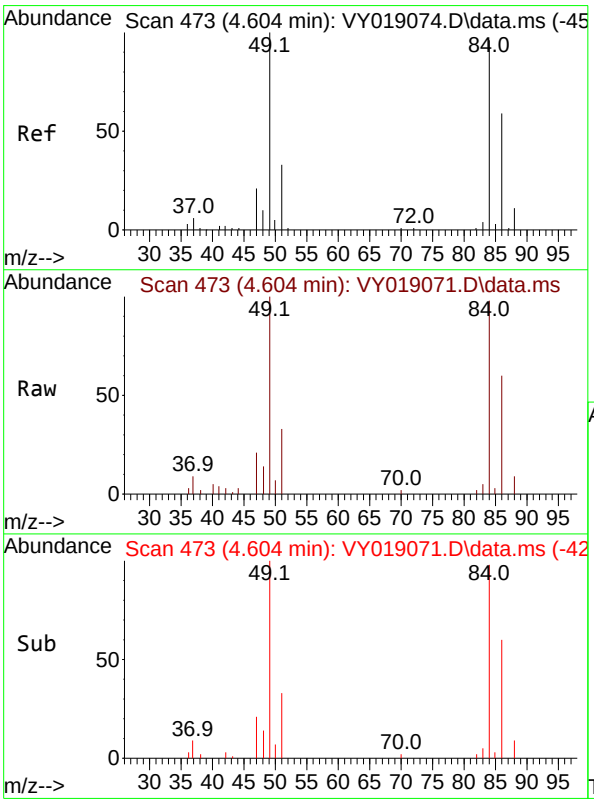
Ion	Ratio	Lower	Upper
73	100		
57	20.0	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

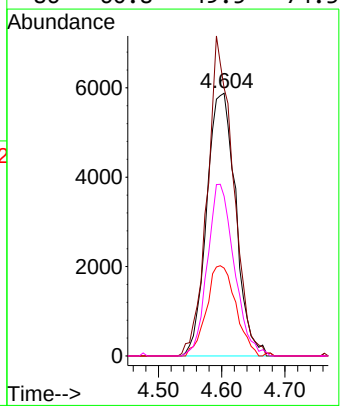
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

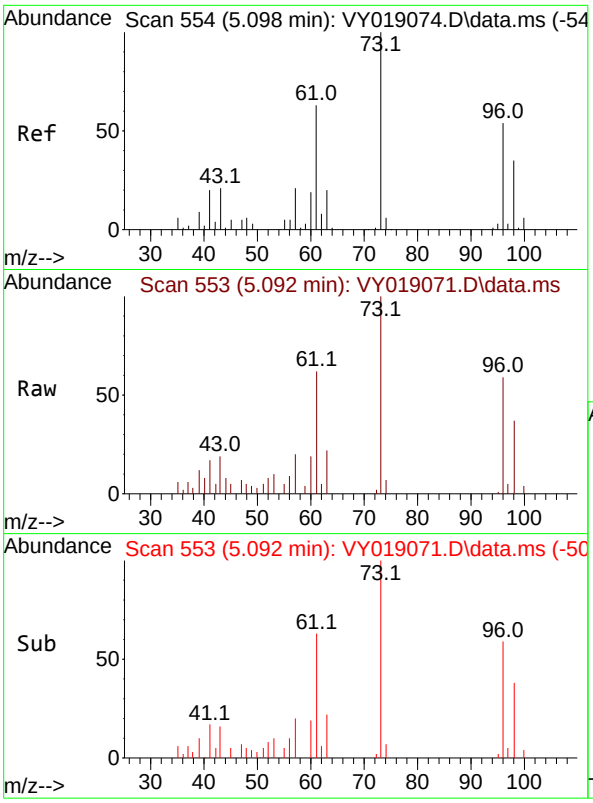


#20
Methylene Chloride
Concen: 5.603 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 84 Resp: 18729

Ion	Ratio	Lower	Upper
84	100		
49	102.0	84.4	126.6
51	33.4	26.0	39.0
86	60.8	49.5	74.3

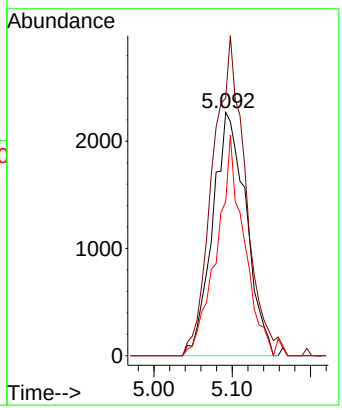




#21
trans-1,2-Dichloroethene
Concen: 5.463 ug/l
RT: 5.092 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 96 Resp: 672

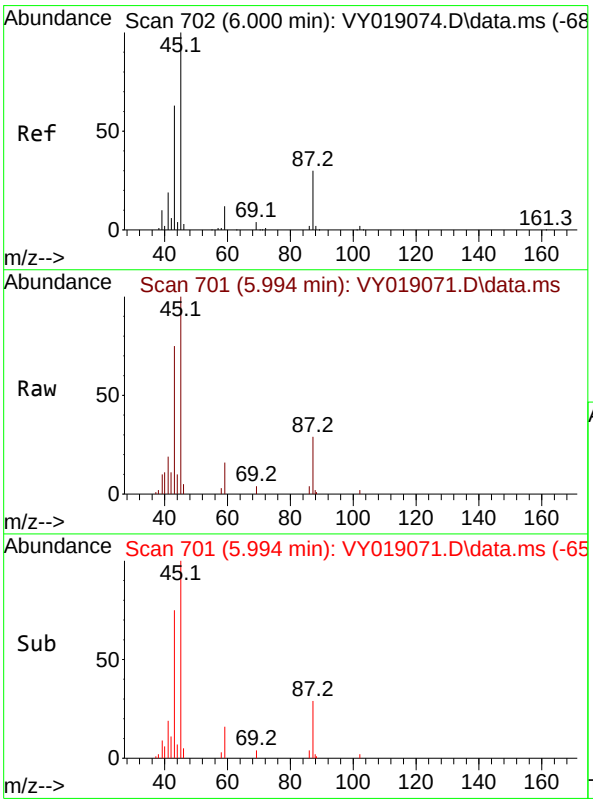
Ion	Ratio	Lower	Upper
96	100		
61	106.0	97.5	146.3
98	63.4	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

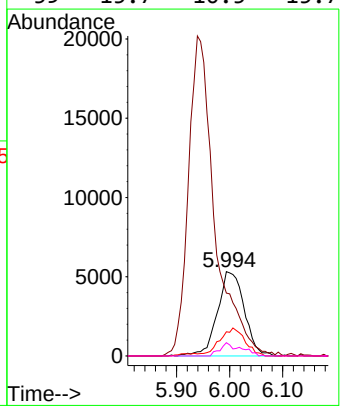
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

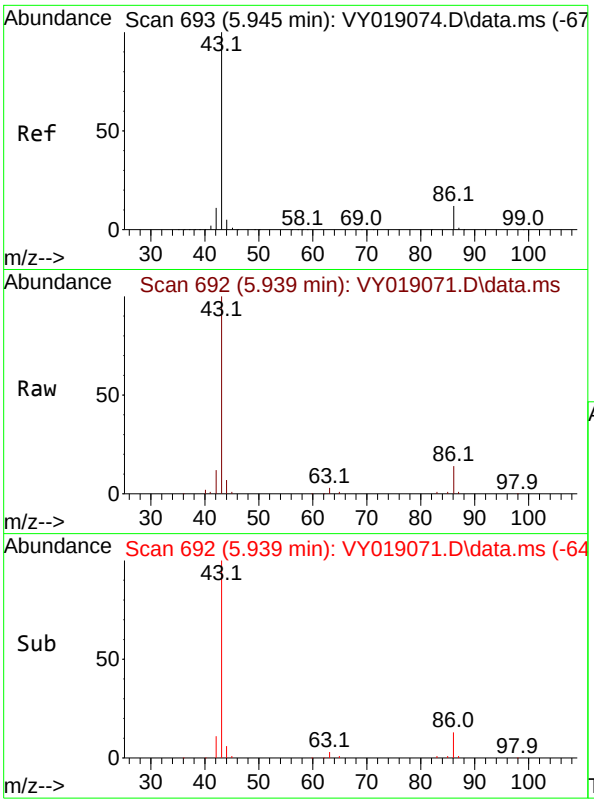


#22
Diisopropyl ether
Concen: 5.579 ug/l
RT: 5.994 min Scan# 701
Delta R.T. -0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 45 Resp: 18713

Ion	Ratio	Lower	Upper
45	100		
43	70.0	42.2	63.2#
87	28.6	25.0	37.6
59	15.7	10.5	15.7





#23
Vinyl Acetate
Concen: 26.341 ug/l
RT: 5.939 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

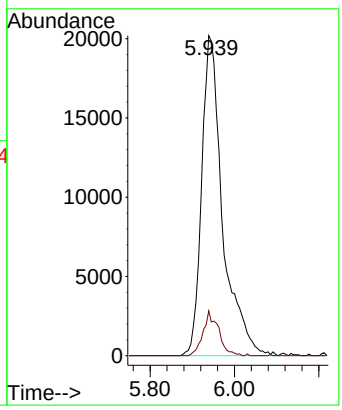
Tgt Ion: 43 Resp: 6994

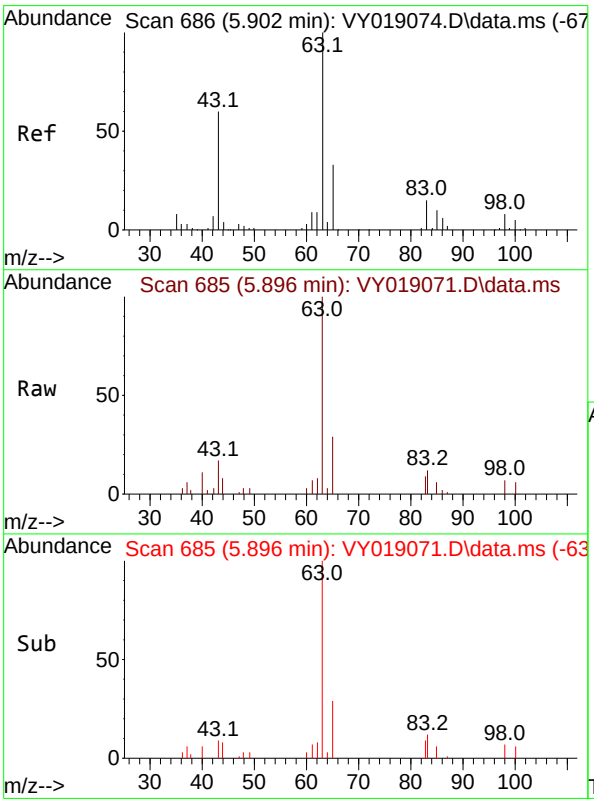
Ion	Ratio	Lower	Upper
43	100		
86	14.0	10.6	16.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

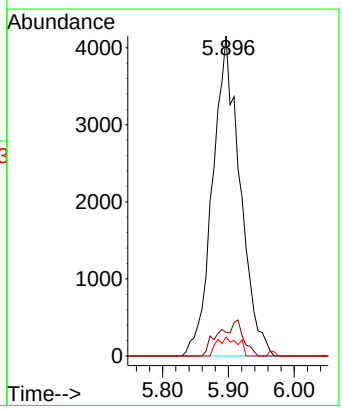


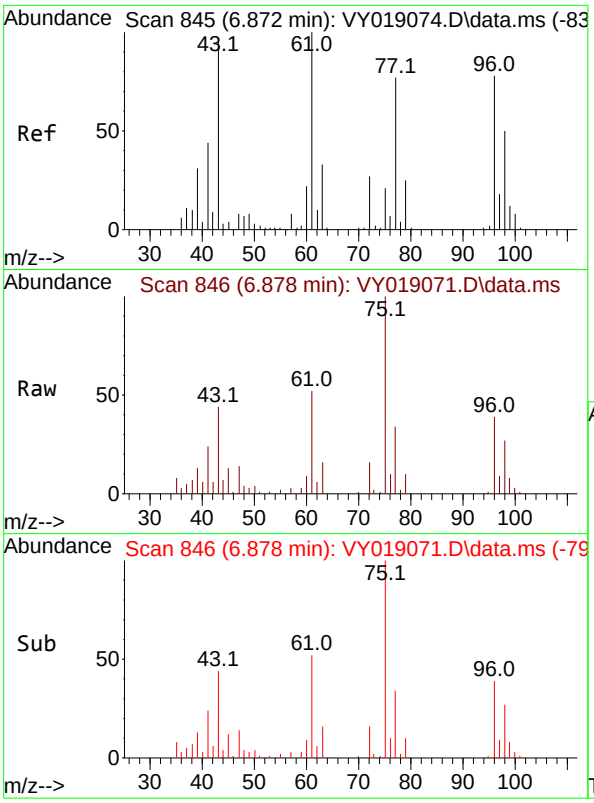


#24
1,1-Dichloroethane
Concen: 5.860 ug/l
RT: 5.896 min Scan# 685
Delta R.T. -0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 63 Resp: 12021

Ion	Ratio	Lower	Upper
63	100		
98	7.4	4.0	12.2
100	5.9	2.6	8.0





#25
2-Butanone
Concen: 30.346 ug/l
RT: 6.878 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

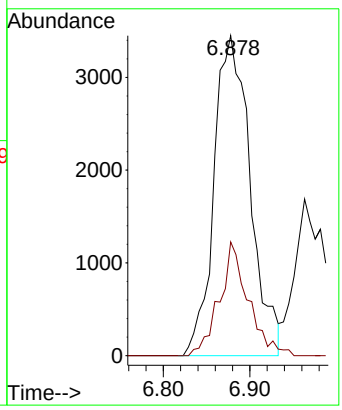
Tgt Ion: 43 Resp: 1003

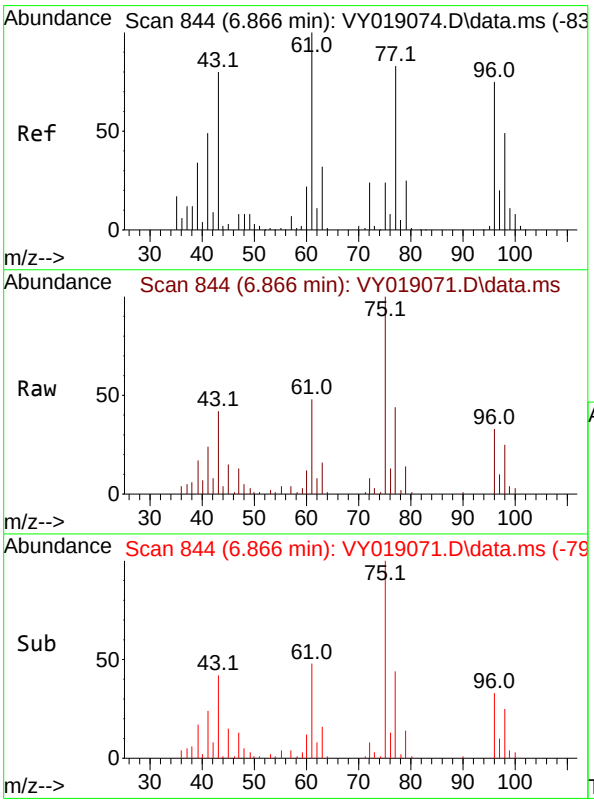
Ion	Ratio	Lower	Upper
43	100		
72	35.5	27.3	40.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

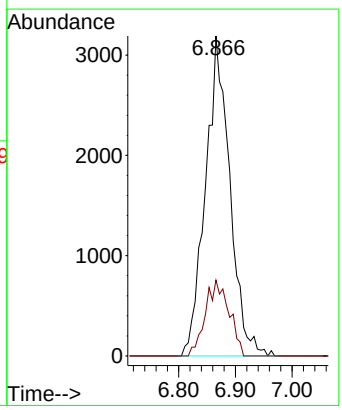


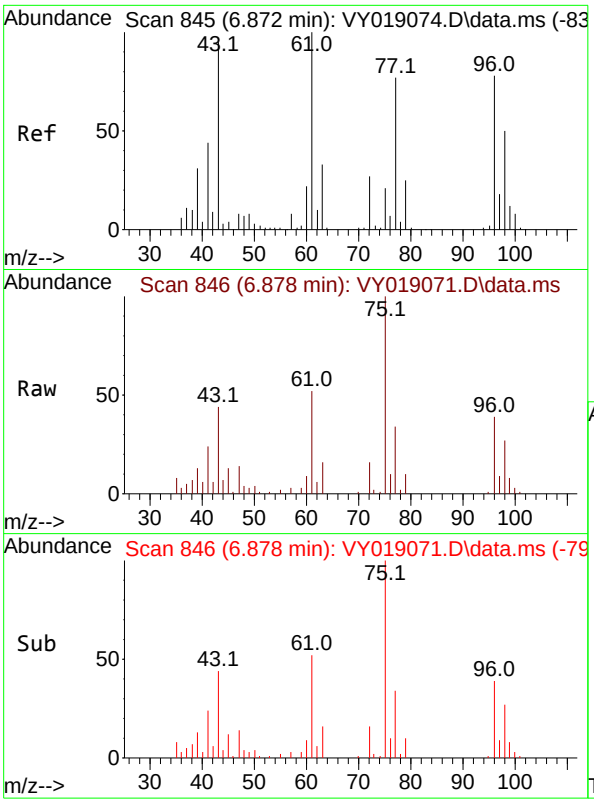


#26
2,2-Dichloropropane
Concen: 5.742 ug/l
RT: 6.866 min Scan# 844
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 77 Resp: 9537

Ion	Ratio	Lower	Upper
77	100		
97	22.9	12.0	36.1





#27
cis-1,2-Dichloroethene
Concen: 5.565 ug/l
RT: 6.878 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

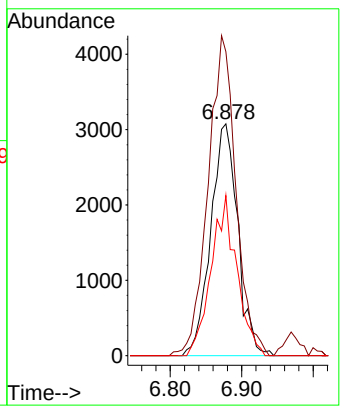
Tgt Ion: 96 Resp: 806

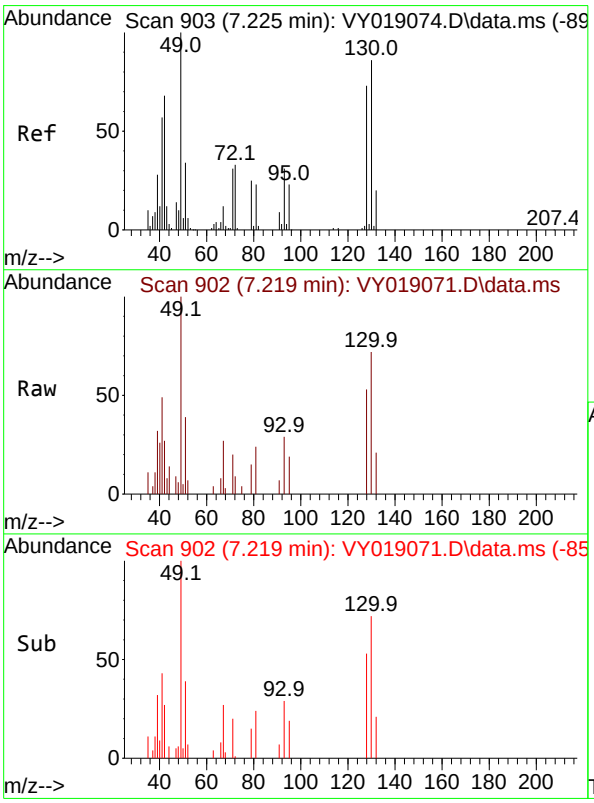
Ion	Ratio	Lower	Upper
96	100		
61	142.5	0.0	256.2
98	65.8	0.0	130.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

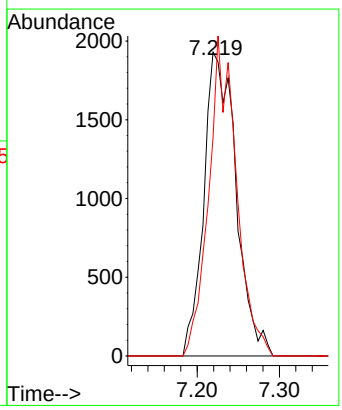


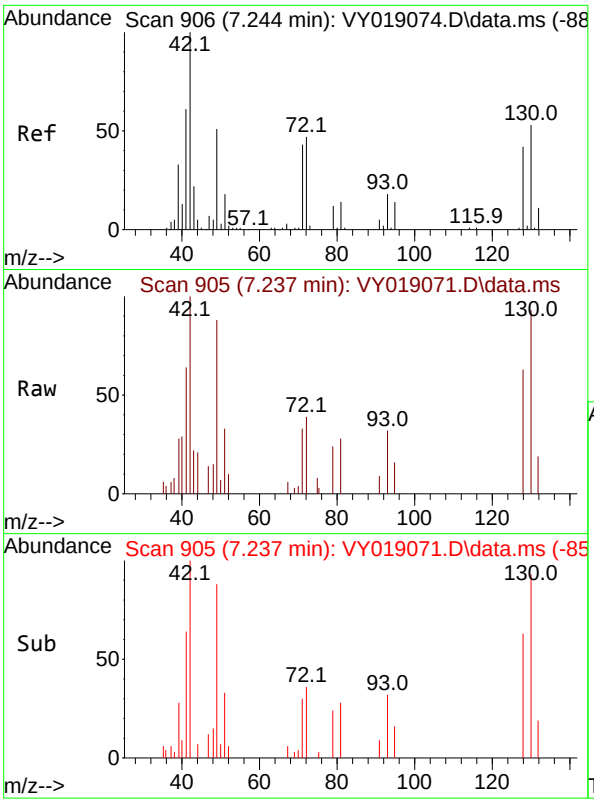


#28
Bromochloromethane
Concen: 6.092 ug/l
RT: 7.219 min Scan# 902
Delta R.T. -0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 49 Resp: 5242

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	90.7	72.7	109.1

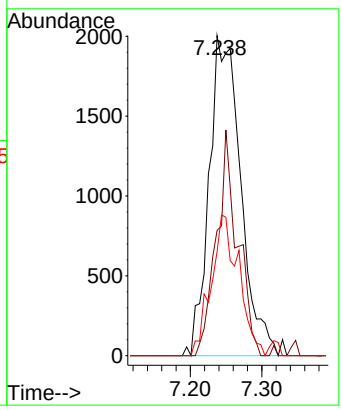




#29
Tetrahydrofuran
Concen: 28.897 ug/l
RT: 7.237 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 42 Resp: 614

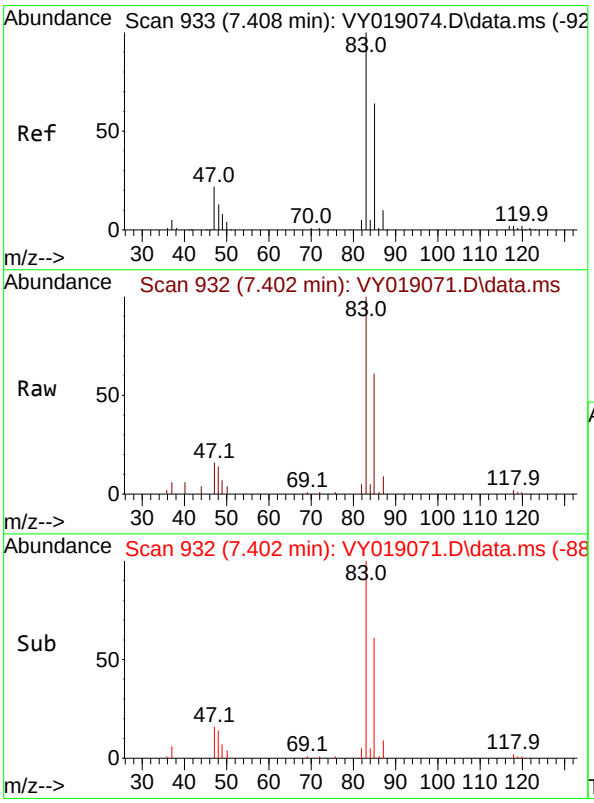
Ion	Ratio	Lower	Upper
42	100		
72	47.4	43.0	64.4
71	38.5	40.8	61.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

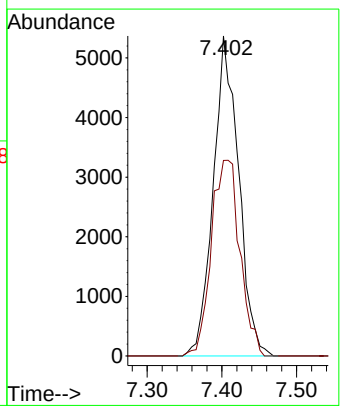
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

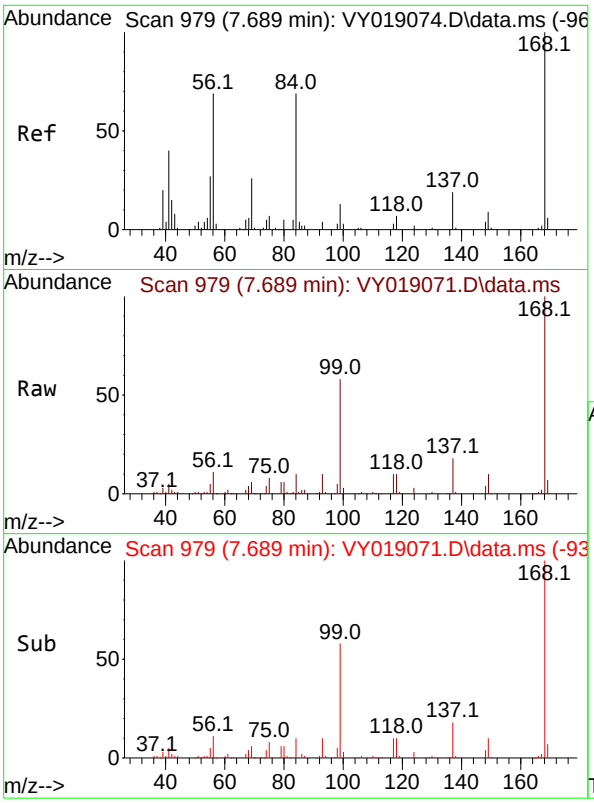


#30
Chloroform
Concen: 5.538 ug/l
RT: 7.402 min Scan# 932
Delta R.T. -0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 83 Resp: 12657

Ion	Ratio	Lower	Upper
83	100		
85	61.1	52.2	78.4

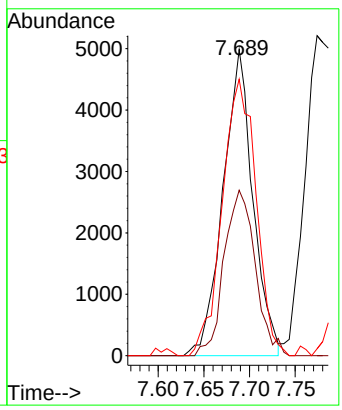




#31
Cyclohexane
Concen: 3.141 ug/l
RT: 7.689 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 56 Resp: 1133

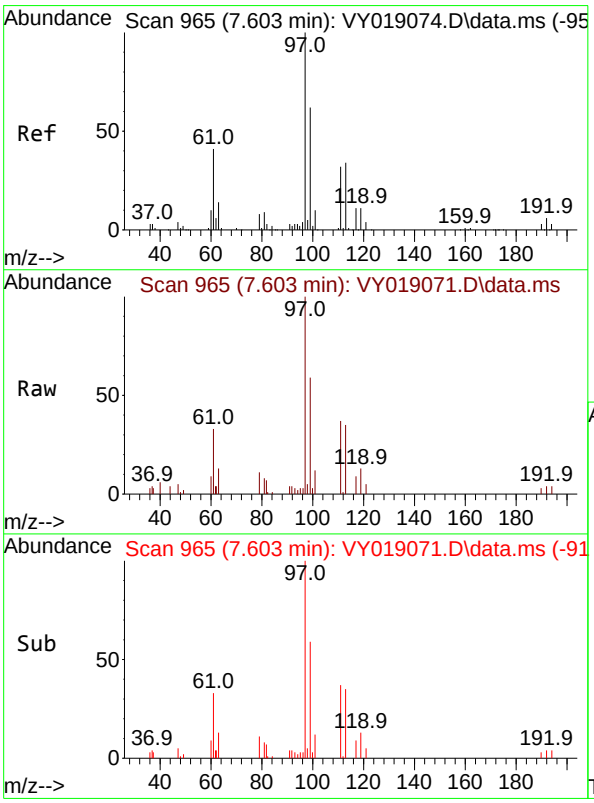
Ion	Ratio	Lower	Upper
56	100		
69	54.0	28.7	43.1
84	90.3	77.7	116.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

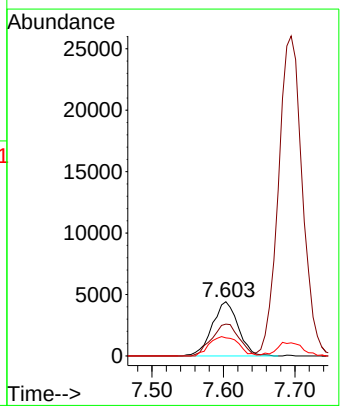
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

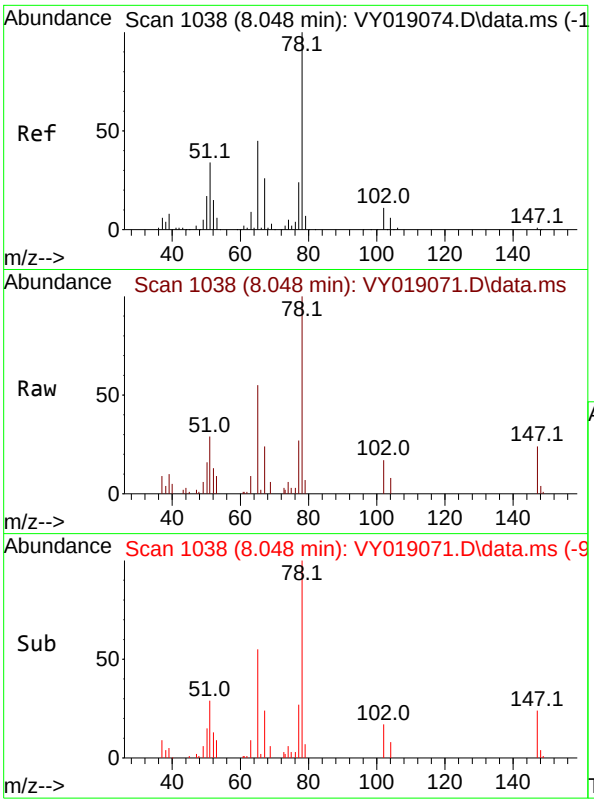


#32
1,1,1-Trichloroethane
Concen: 5.541 ug/l
RT: 7.603 min Scan# 965
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 97 Resp: 11129

Ion	Ratio	Lower	Upper
97	100		
99	61.5	50.3	75.5
61	39.9	32.6	48.8

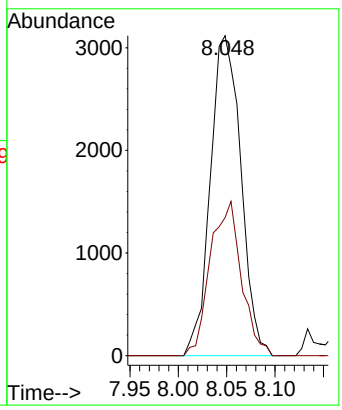




#33
1,2-Dichloroethane-d4
Concen: 6.184 ug/l
RT: 8.048 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 65 Resp: 684

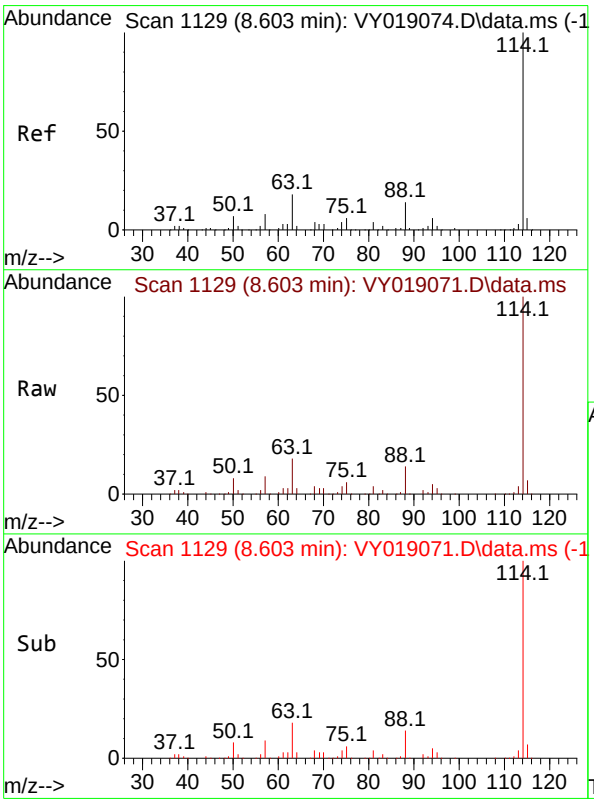
Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	109.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

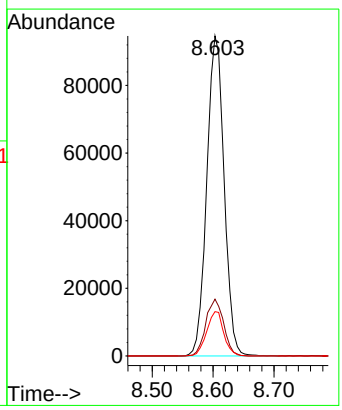
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

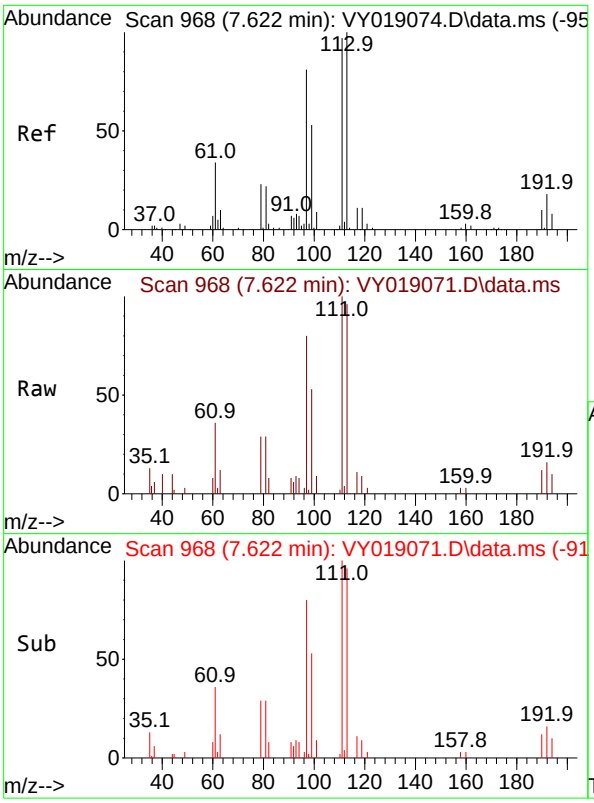


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.603 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:114 Resp: 187167

Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	35.0
88	13.9	0.0	27.2

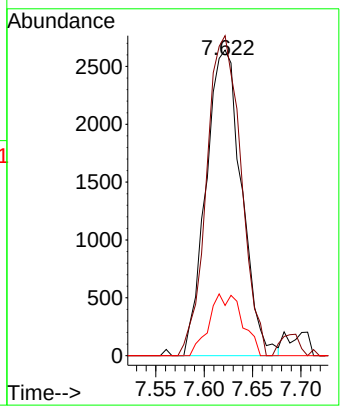




#35
Dibromofluoromethane
Concen: 5.518 ug/l
RT: 7.622 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:113 Resp: 675

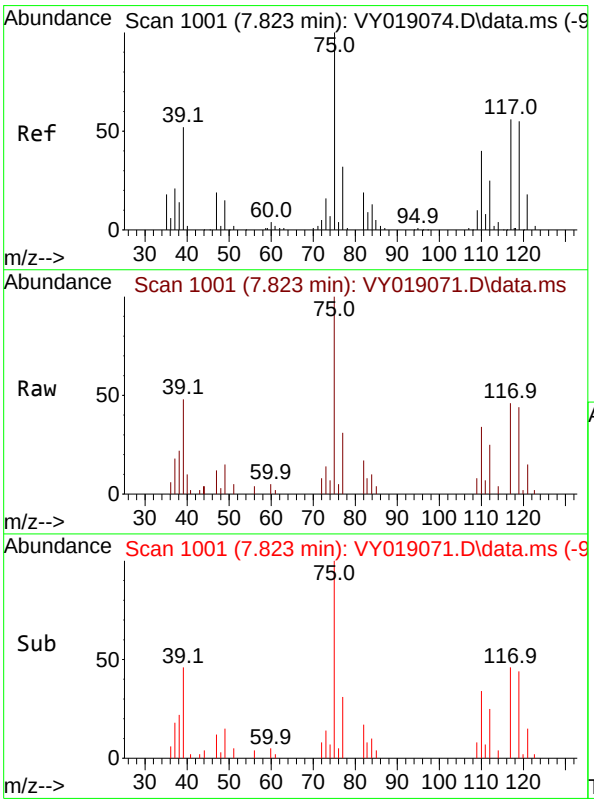
Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.2	123.4
192	18.8	15.9	23.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

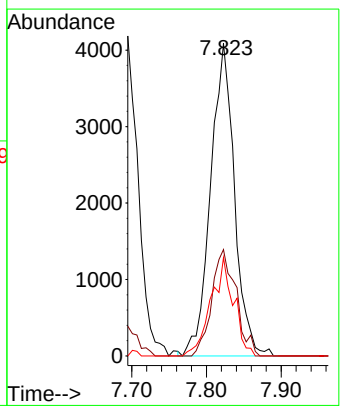
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

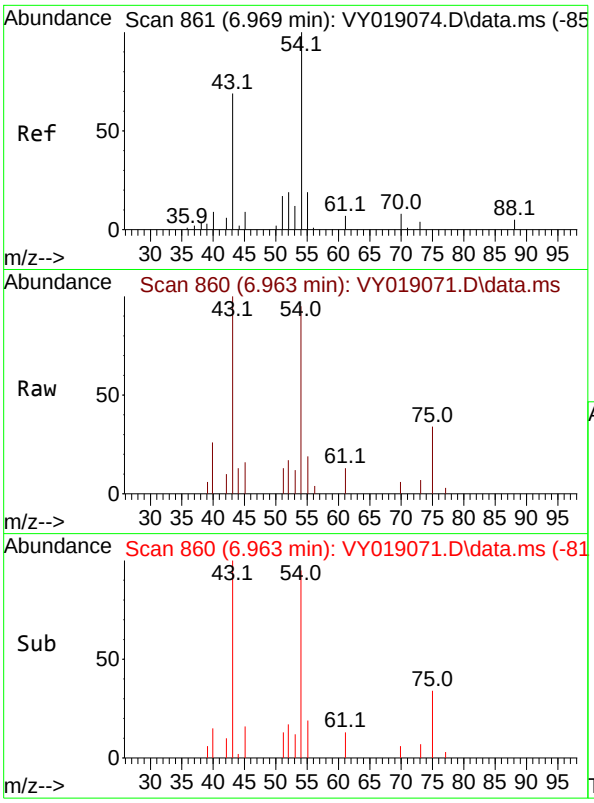


#36
1,1-Dichloropropene
Concen: 5.407 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 75 Resp: 9086

Ion	Ratio	Lower	Upper
75	100		
110	34.6	19.0	57.0
77	30.0	25.3	37.9

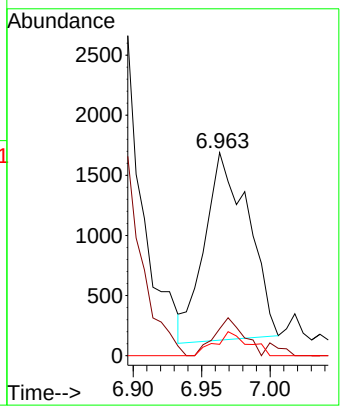




#37
Ethyl Acetate
Concen: 4.659 ug/l
RT: 6.963 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 43 Resp: 346

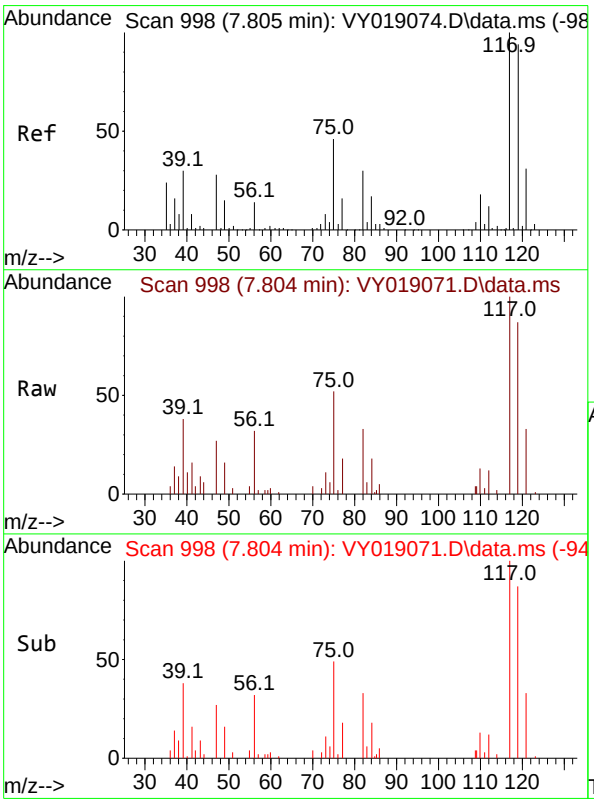
Ion	Ratio	Lower	Upper
43	100		
61	13.4	12.6	19.0
70	9.7	7.8	11.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

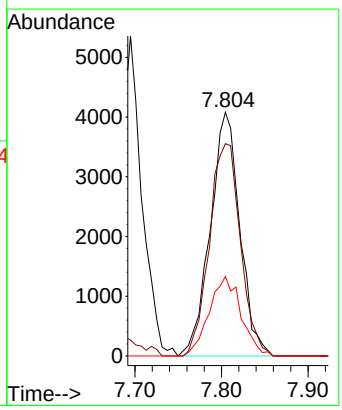
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

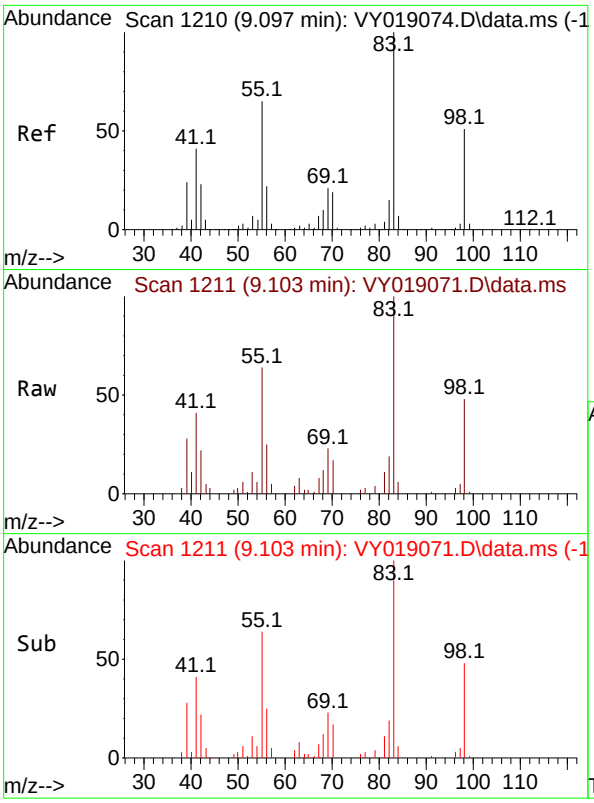


#38
Carbon Tetrachloride
Concen: 4.963 ug/l
RT: 7.804 min Scan# 998
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:117 Resp: 9665

Ion	Ratio	Lower	Upper
117	100		
119	87.2	75.8	113.6
121	32.6	24.0	36.0

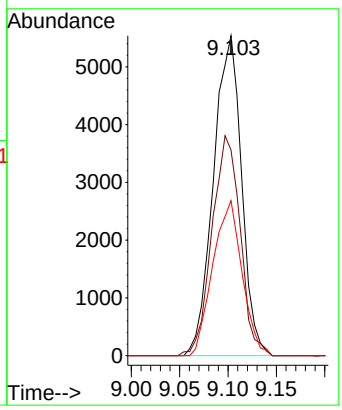




#39
Methylcyclohexane
Concen: 5.194 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 83 Resp: 1120

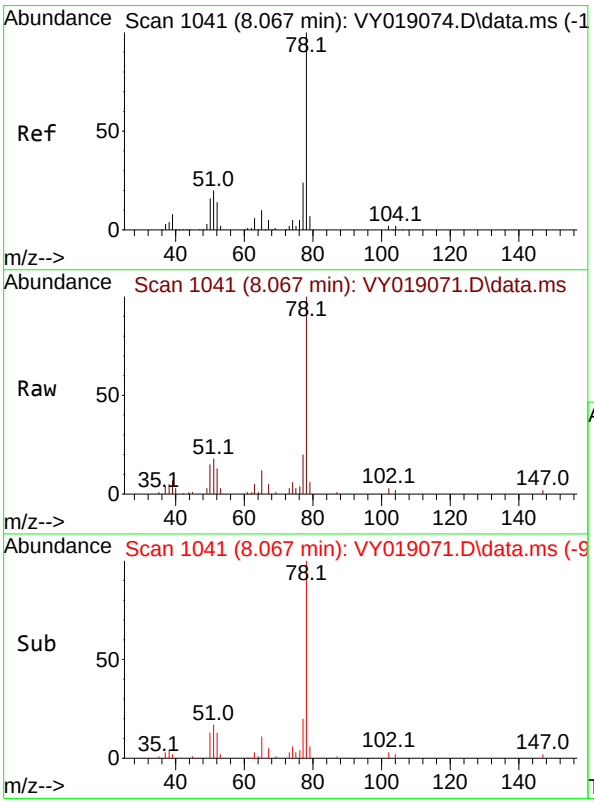
Ion	Ratio	Lower	Upper
83	100		
55	64.3	51.5	77.3
98	48.5	40.5	60.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

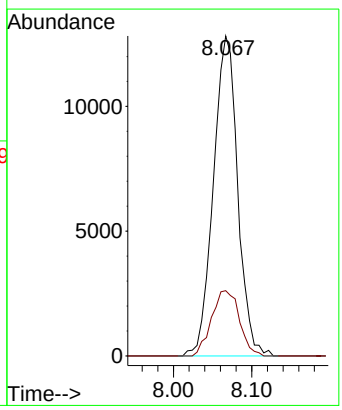
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

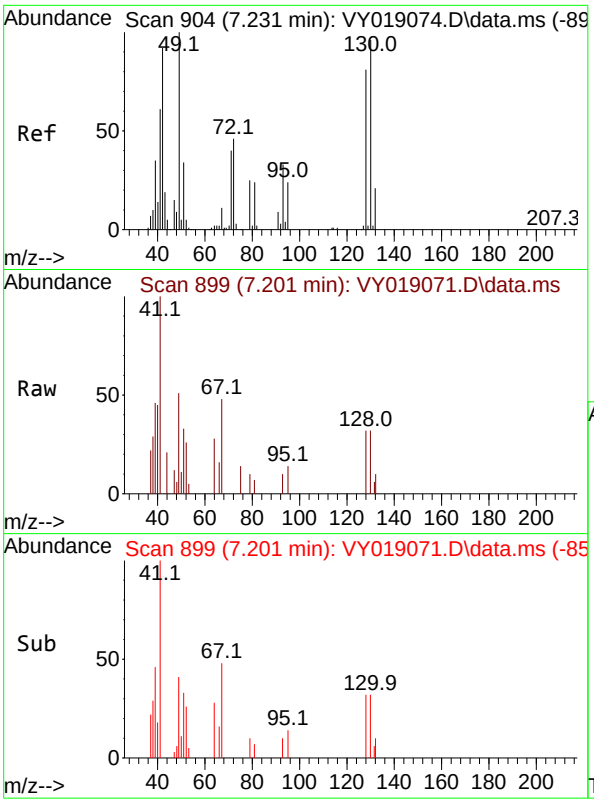


#40
Benzene
Concen: 5.367 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 78 Resp: 27662

Ion	Ratio	Lower	Upper
78	100		
77	20.4	19.5	29.3

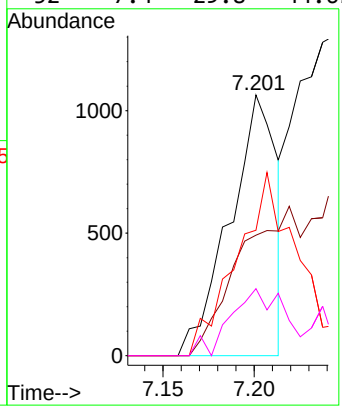




#41
Methacrylonitrile
Concen: 4.943 ug/l m
RT: 7.201 min Scan# 8
Delta R.T. -0.031 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 41 Resp: 190

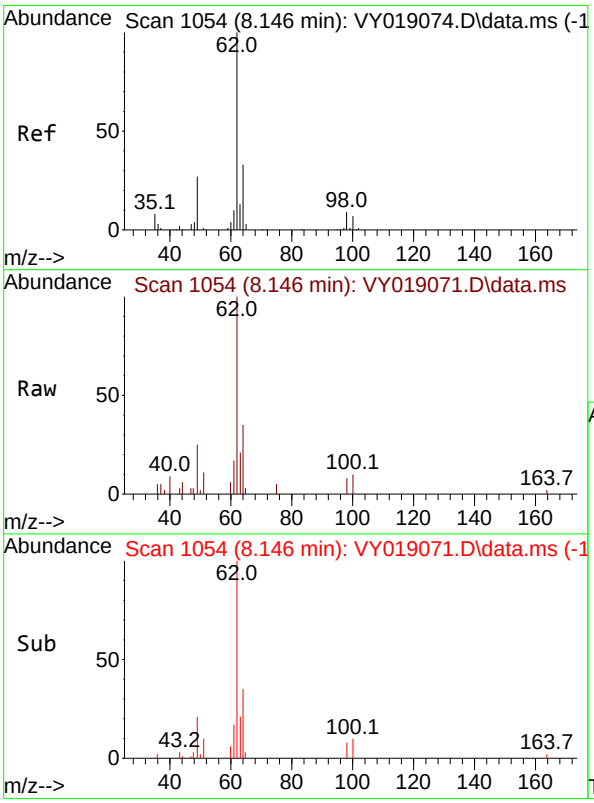
Ion	Ratio	Lower	Upper
41	100		
39	87.7	48.0	72.0#
67	0.0	75.1	112.7#
52	7.4	29.8	44.6#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

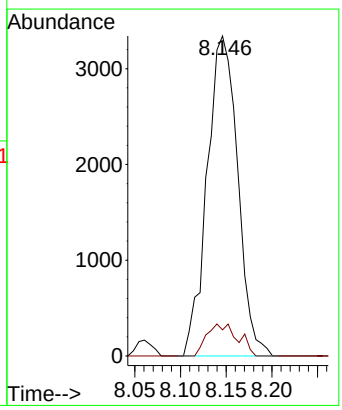
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

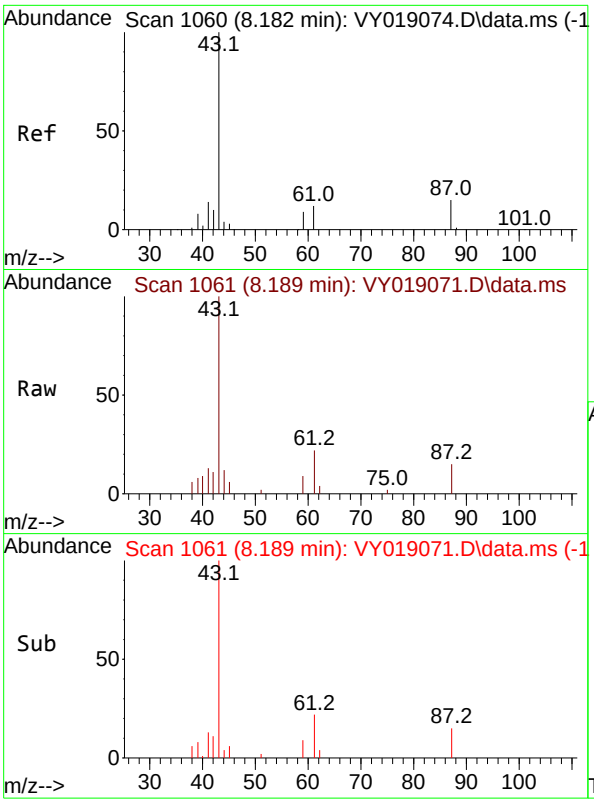


#42
1,2-Dichloroethane
Concen: 5.595 ug/l
RT: 8.146 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 62 Resp: 7787

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	22.0





#43
Isopropyl Acetate
Concen: 4.954 ug/l
RT: 8.189 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

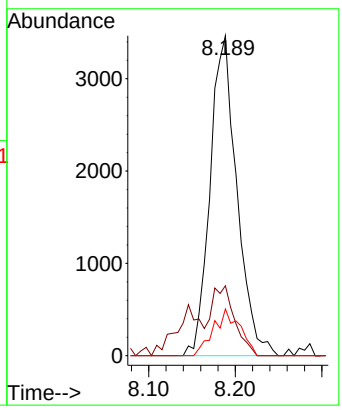
Tgt Ion: 43 Resp: 746

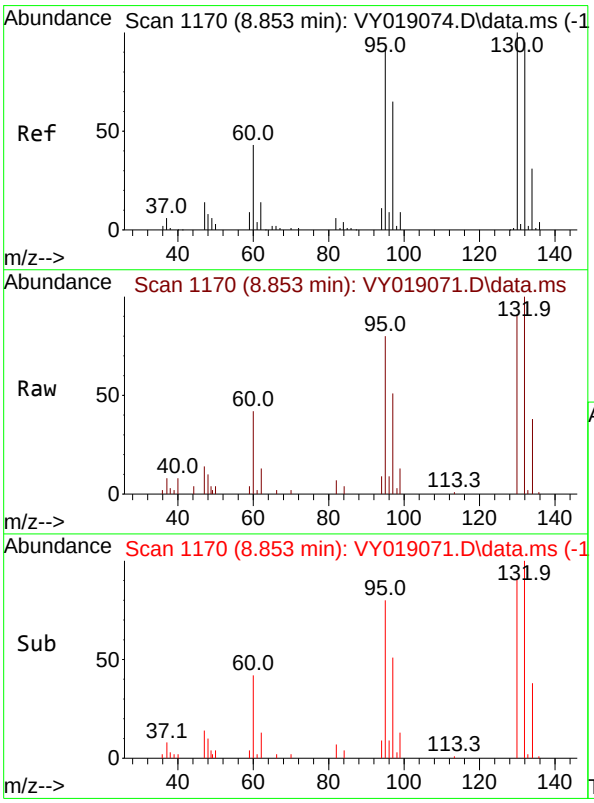
Ion	Ratio	Lower	Upper
43	100		
61	18.9	27.9	41.9#
87	14.3	13.1	19.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

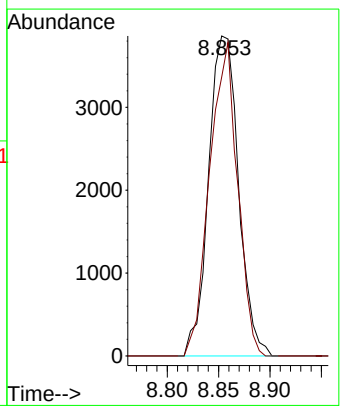


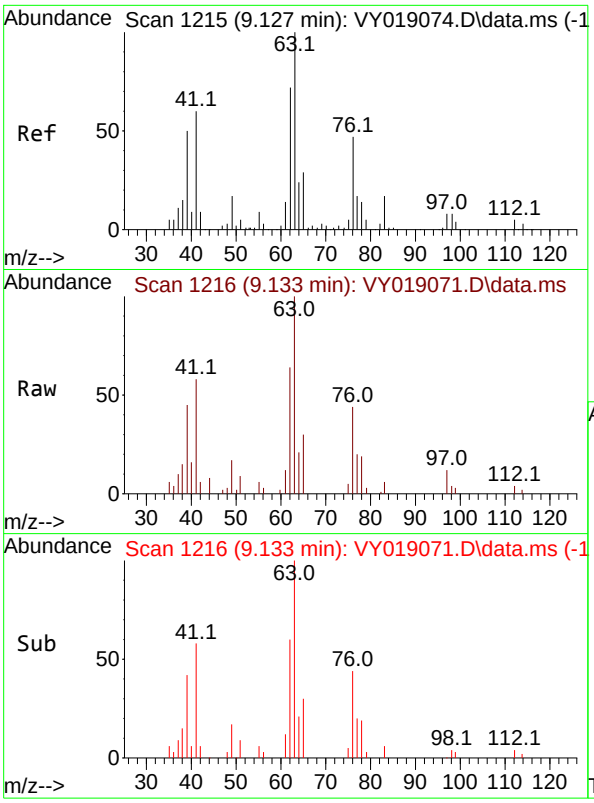


#44
Trichloroethene
Concen: 5.446 ug/l
RT: 8.853 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:130 Resp: 7832

Ion	Ratio	Lower	Upper
130	100		
95	87.2	0.0	188.0

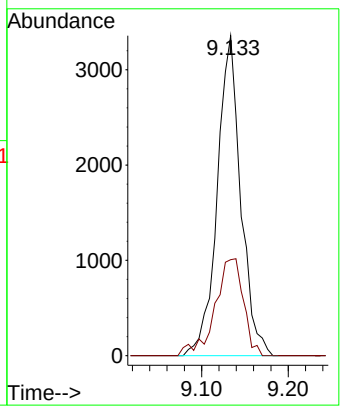




#45
1,2-Dichloropropane
Concen: 5.518 ug/l
RT: 9.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 63 Resp: 633

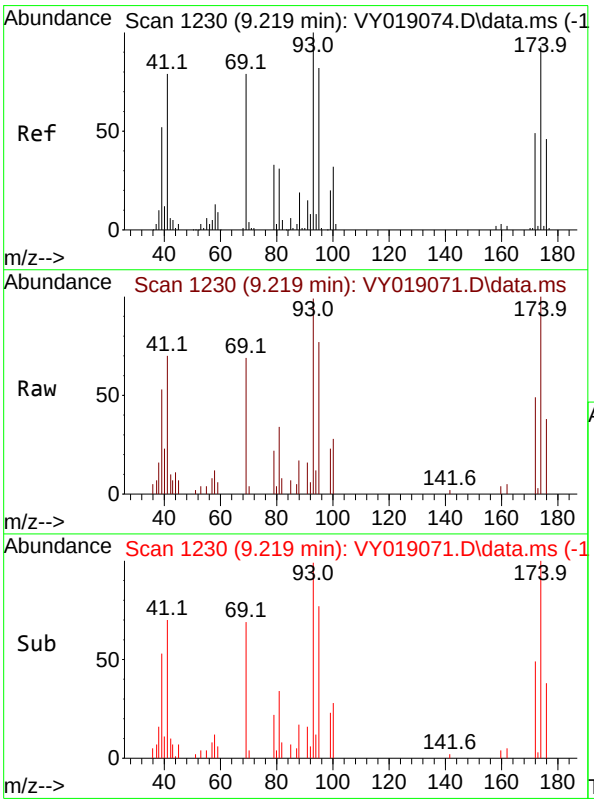
Ion	Ratio	Lower	Upper
63	100		
65	30.0	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

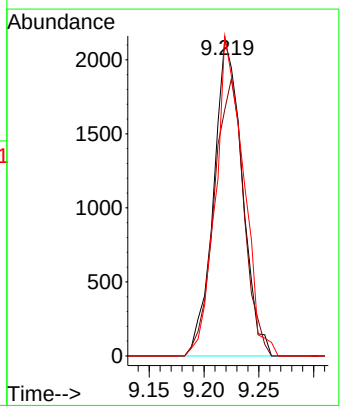
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

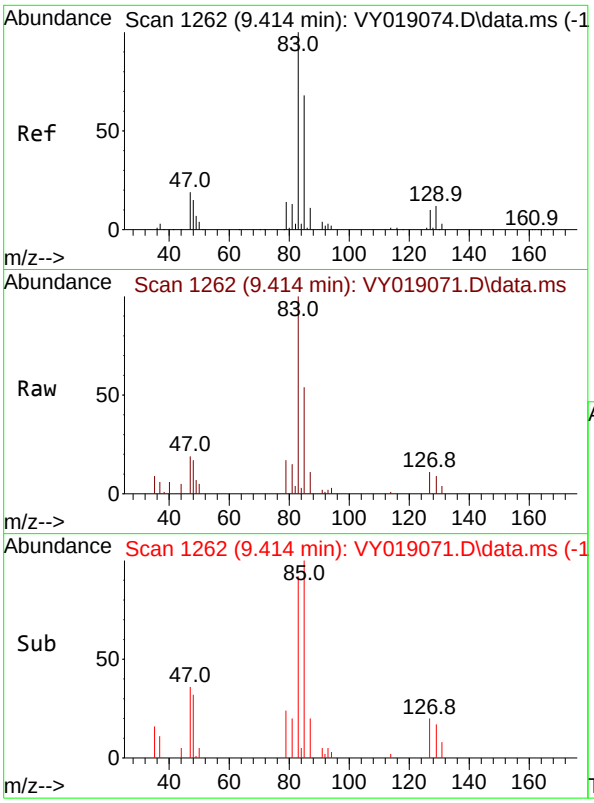


#46
Dibromomethane
Concen: 5.188 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 93 Resp: 3864

Ion	Ratio	Lower	Upper
93	100		
95	90.9	66.2	99.4
174	98.9	80.9	121.3





#47
Bromodichloromethane
Concen: 5.151 ug/l
RT: 9.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

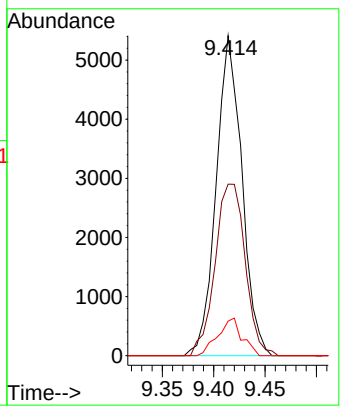
Tgt Ion: 83 Resp: 941

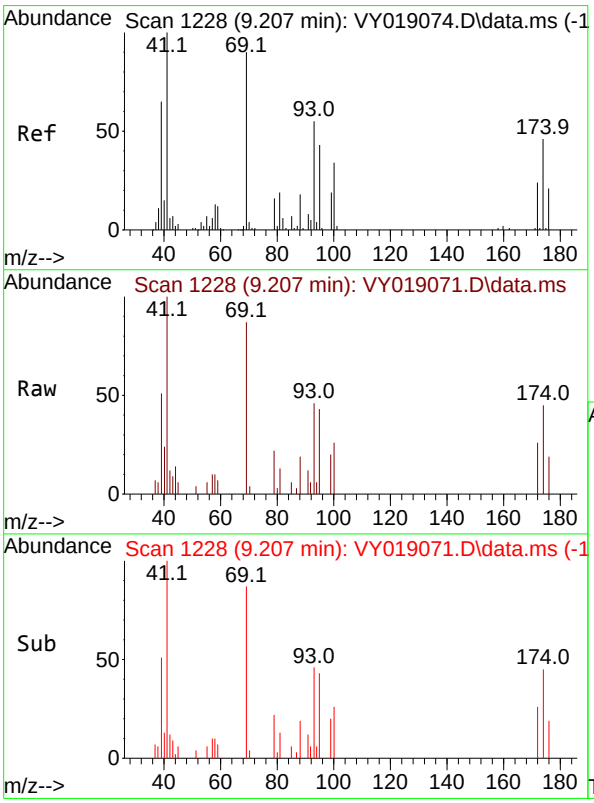
Ion	Ratio	Lower	Upper
83	100		
85	53.6	50.1	75.1
127	10.8	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

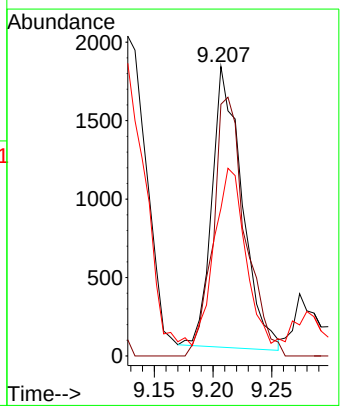


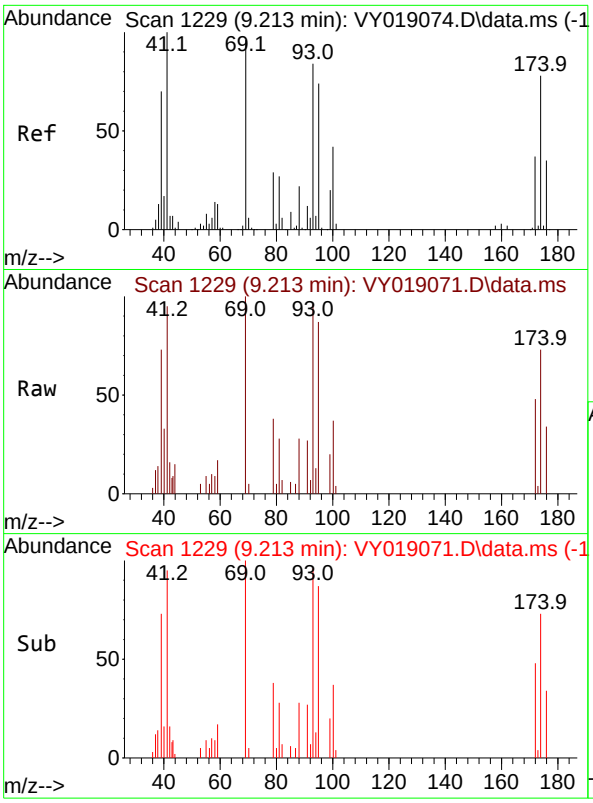


#48
Methyl methacrylate
Concen: 4.742 ug/l
RT: 9.207 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 41 Resp: 3182

Ion	Ratio	Lower	Upper
41	100		
69	99.0	84.1	126.1
39	73.2	43.6	65.4#

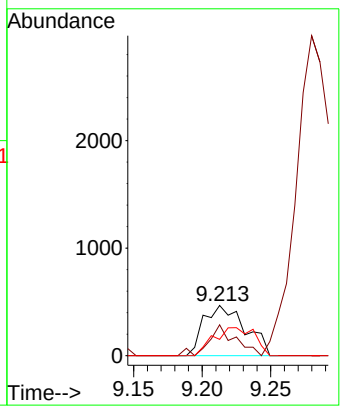




#49
1,4-Dioxane
Concen: 109.063 ug/l
RT: 9.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 88 Resp: 98

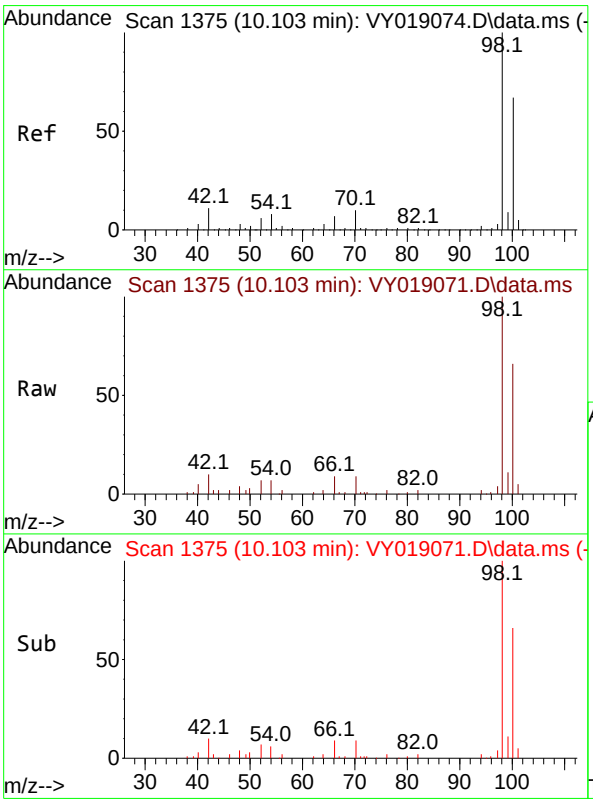
Ion	Ratio	Lower	Upper
88	100		
43	39.2	0.0	0.0
58	55.1	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

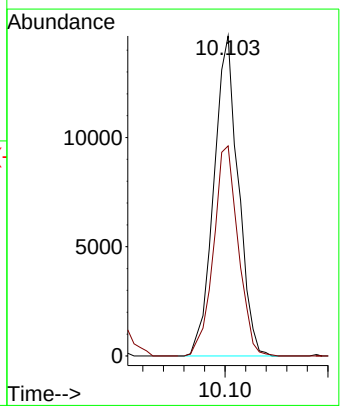
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

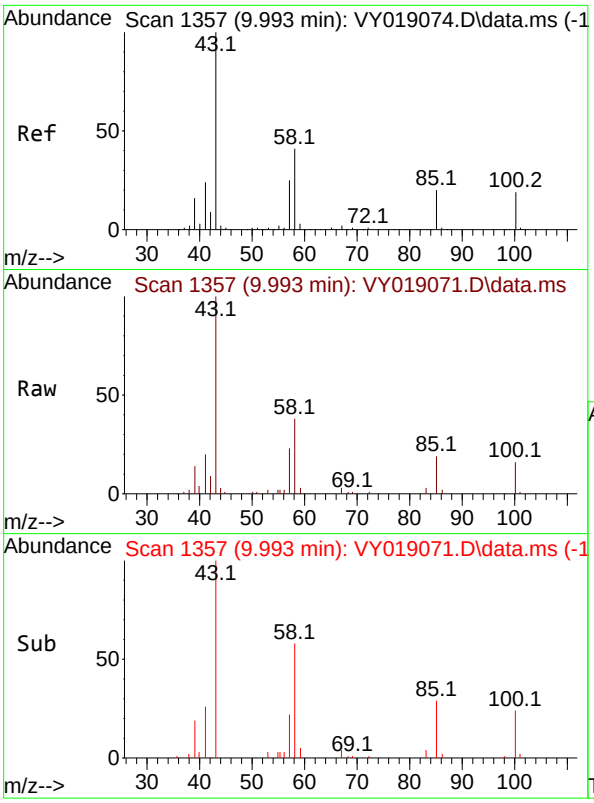


#50
Toluene-d8
Concen: 5.483 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 98 Resp: 24147

Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 25.044 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

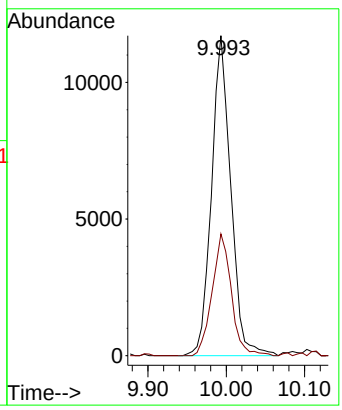
Tgt Ion: 43 Resp: 2001

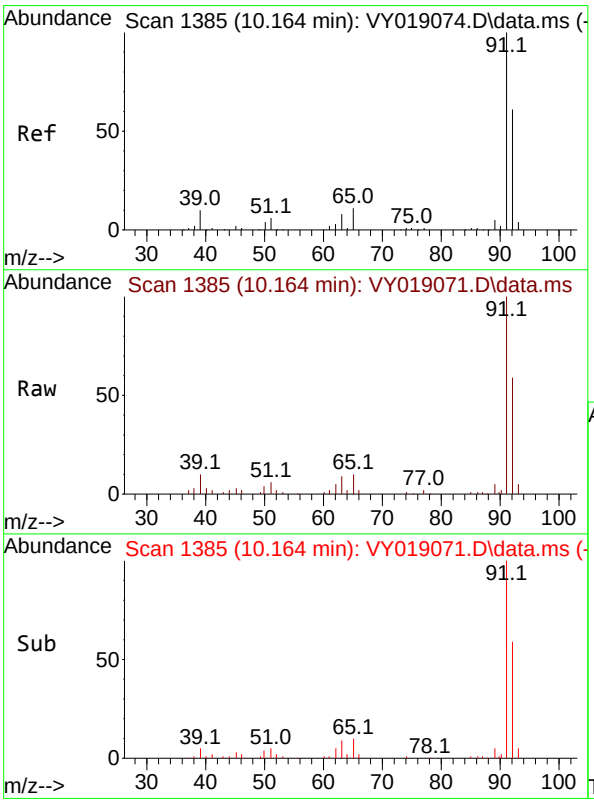
Ion	Ratio	Lower	Upper
43	100		
58	38.0	35.7	53.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

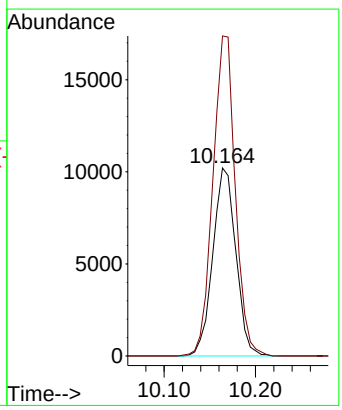


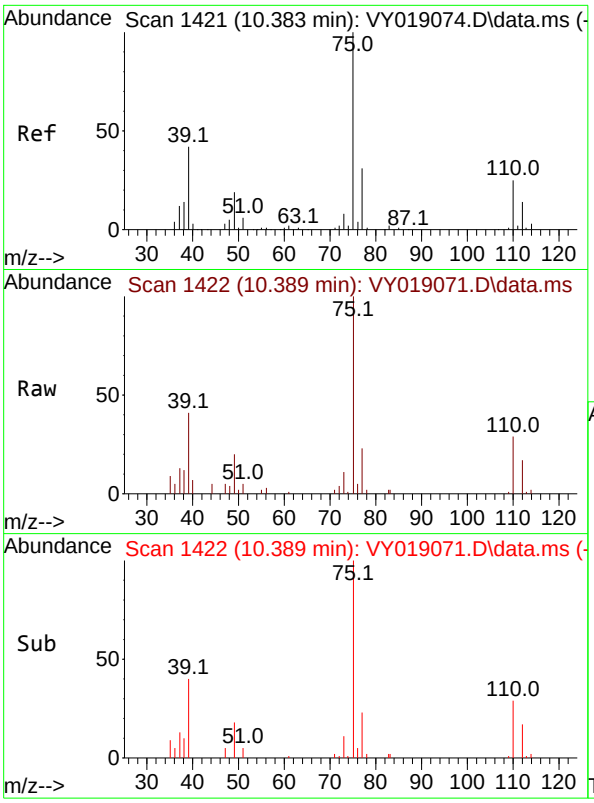


#52
Toluene
Concen: 5.284 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 92 Resp: 17877

Ion	Ratio	Lower	Upper
92	100		
91	165.6	139.0	208.6





#53
t-1,3-Dichloropropene
Concen: 4.989 ug/l
RT: 10.389 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

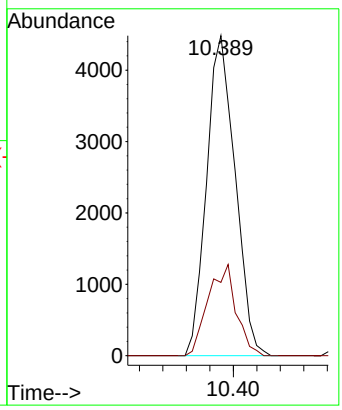
Tgt Ion: 75 Resp: 756

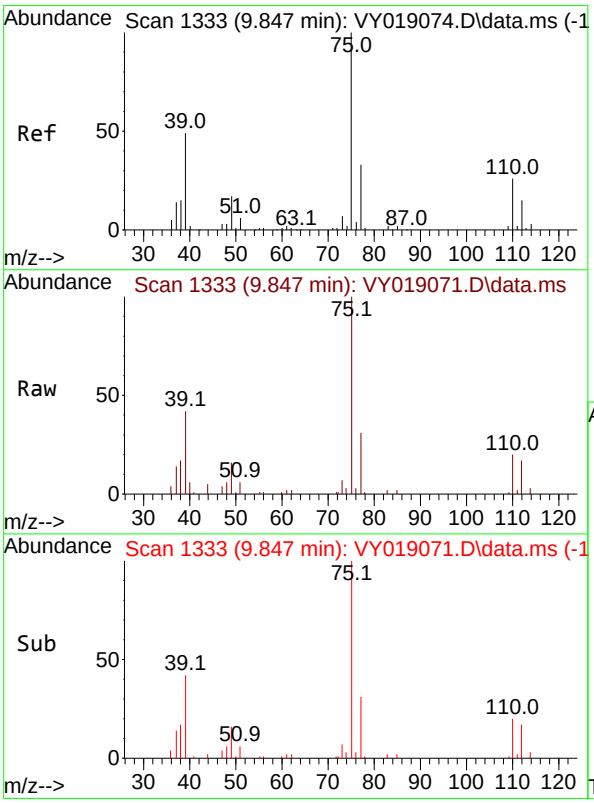
Ion	Ratio	Lower	Upper
75	100		
77	22.9	24.1	36.1#

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

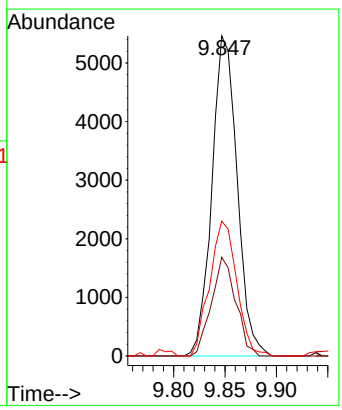


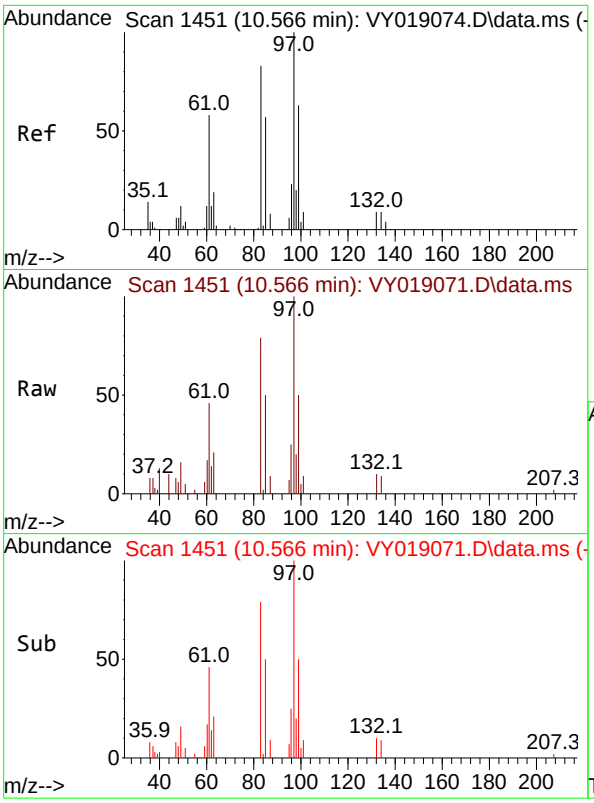


#54
cis-1,3-Dichloropropene
Concen: 5.116 ug/l
RT: 9.847 min Scan# 1333
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 75 Resp: 9327

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.4	38.0
39	42.1	29.8	44.6

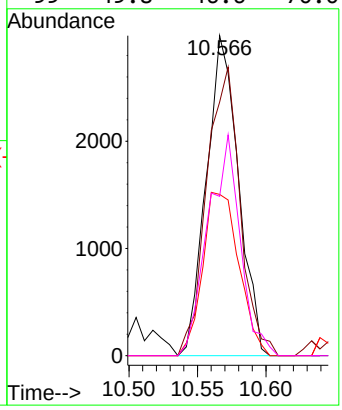




#55
1,1,2-Trichloroethane
Concen: 5.077 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 97 Resp: 486

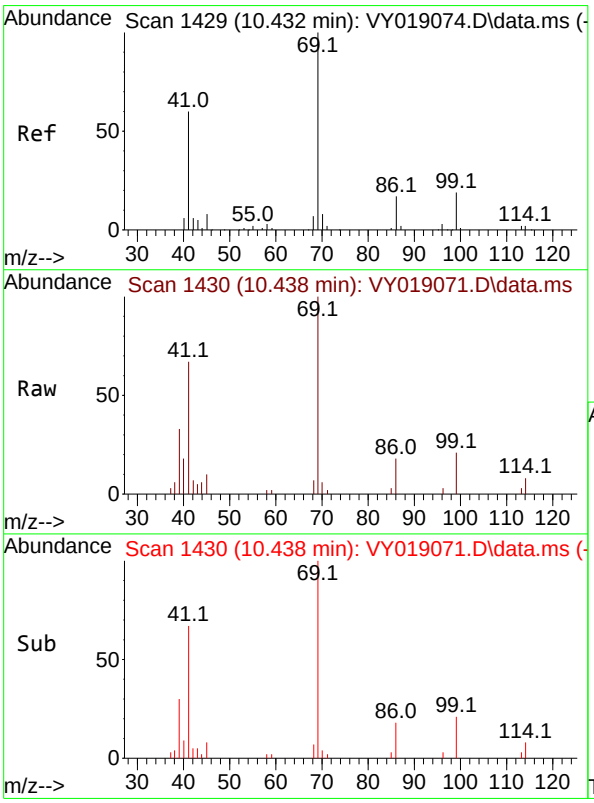
Ion	Ratio	Lower	Upper
97	100		
83	79.3	67.5	101.3
85	50.4	42.9	64.3
99	49.8	46.6	70.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

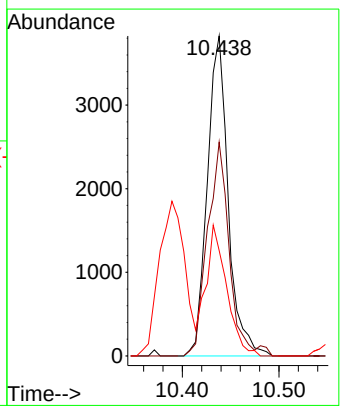
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

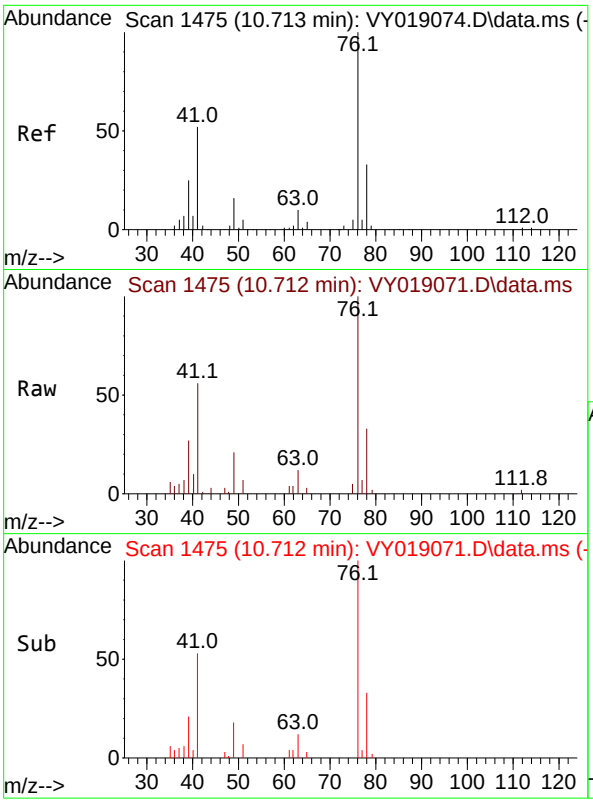


#56
Ethyl methacrylate
Concen: 4.582 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 69 Resp: 5751

Ion	Ratio	Lower	Upper
69	100		
41	69.9	42.3	63.5#
39	40.8	22.9	34.3#

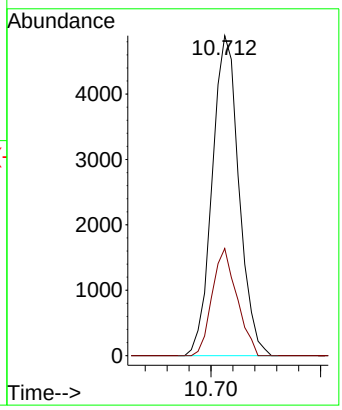




#57
1,3-Dichloropropane
Concen: 5.304 ug/l
RT: 10.712 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 76 Resp: 829

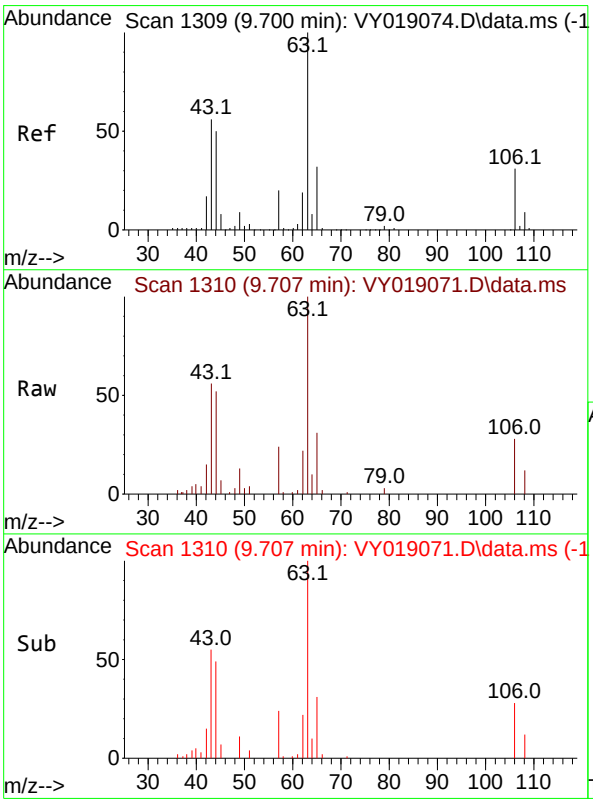
Ion	Ratio	Lower	Upper
76	100		
78	31.0	26.2	39.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

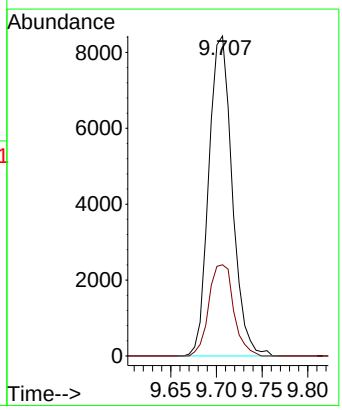
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

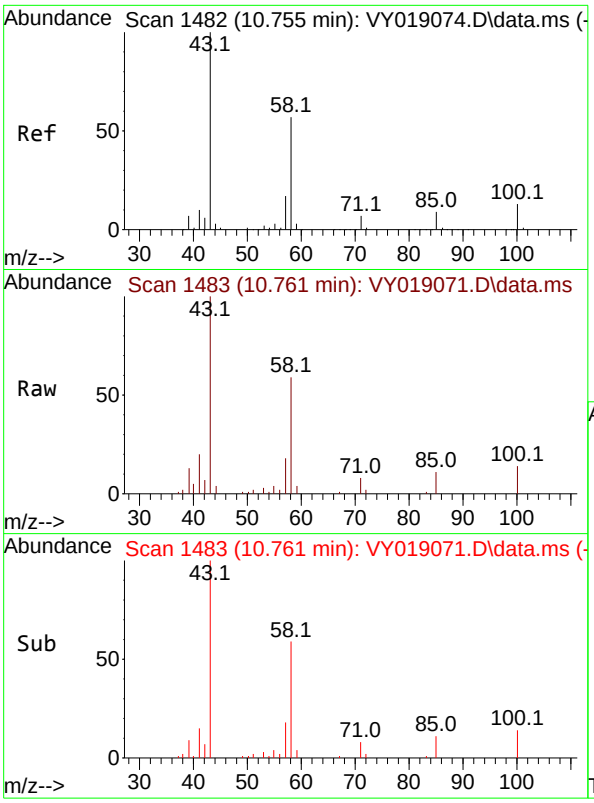


#58
2-Chloroethyl Vinyl ether
Concen: 25.221 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 63 Resp: 15016

Ion	Ratio	Lower	Upper
63	100		
106	30.2	23.7	35.5





#59
2-Hexanone
Concen: 23.332 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

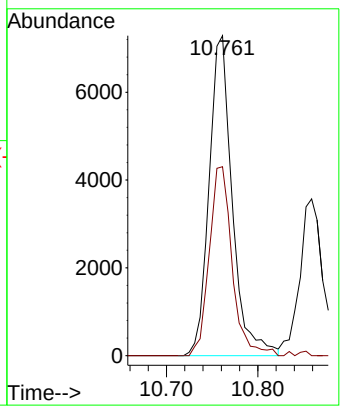
Tgt Ion: 43 Resp: 1281

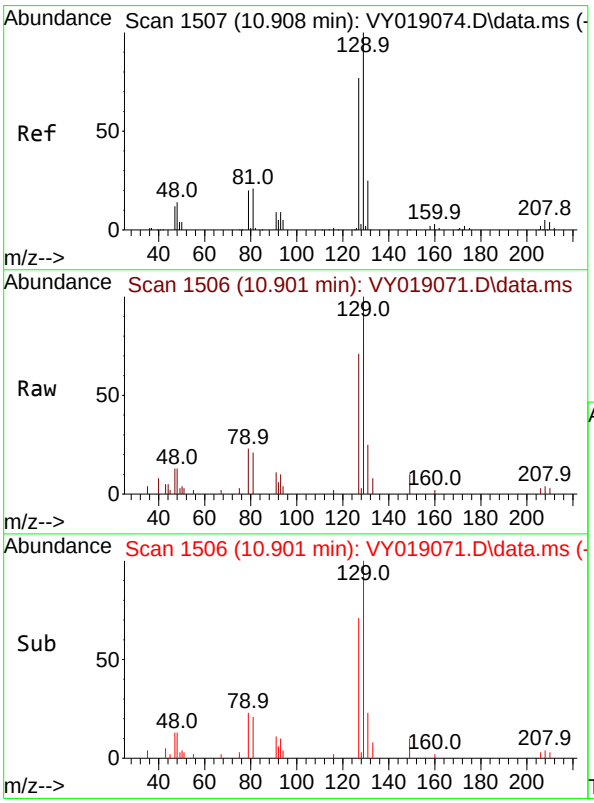
Ion	Ratio	Lower	Upper
43	100		
58	58.5	31.4	94.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

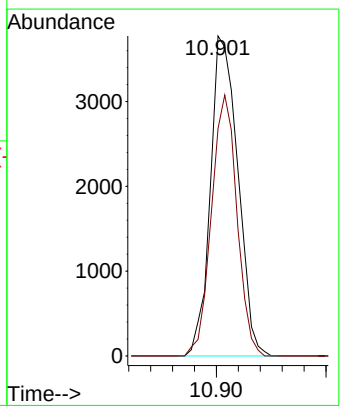


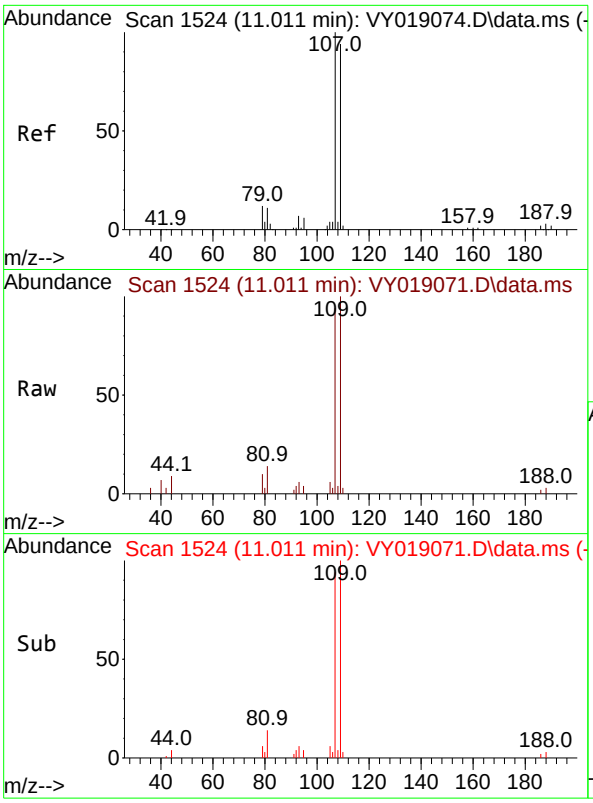


#60
Dibromochloromethane
Concen: 5.017 ug/l
RT: 10.901 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:129 Resp: 6552

Ion	Ratio	Lower	Upper
129	100		
127	75.7	39.0	117.0

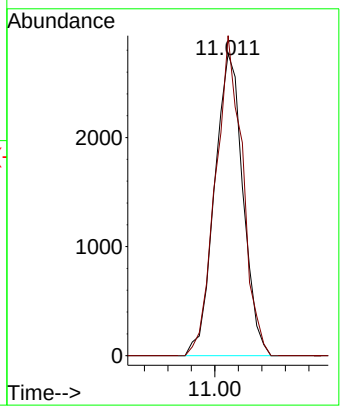




#61
1,2-Dibromoethane
Concen: 5.019 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:107 Resp: 465

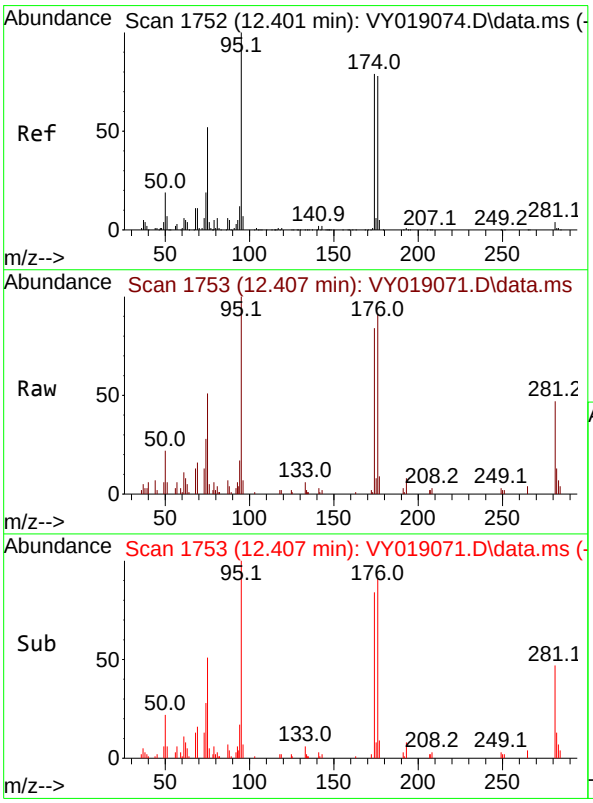
Ion	Ratio	Lower	Upper
107	100		
109	100.8	75.9	113.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

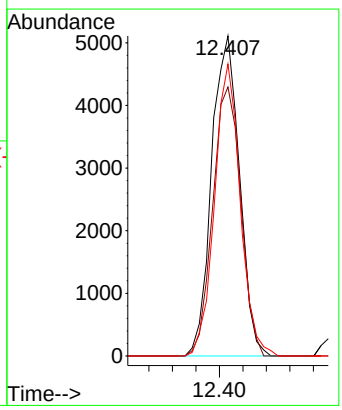
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

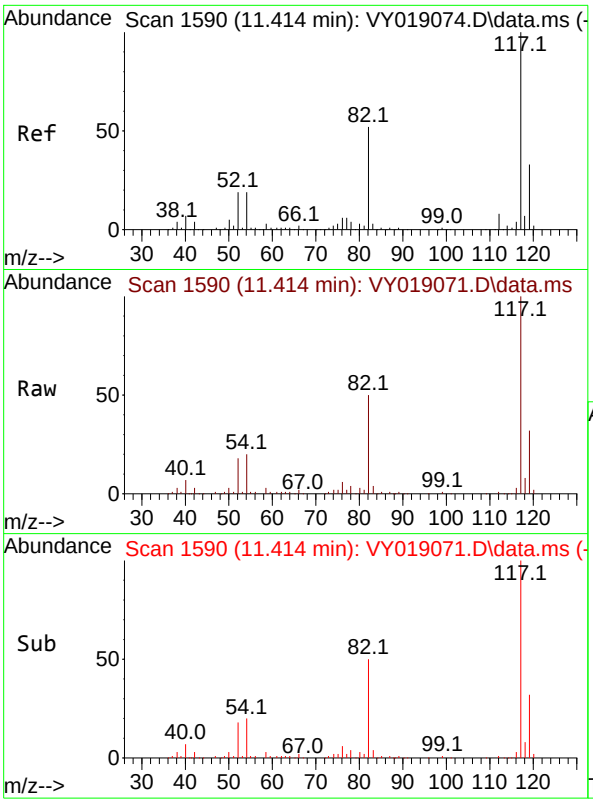


#62
4-Bromofluorobenzene
Concen: 5.596 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 95 Resp: 8401

Ion	Ratio	Lower	Upper
95	100		
174	84.8	0.0	175.6
176	84.4	0.0	171.4

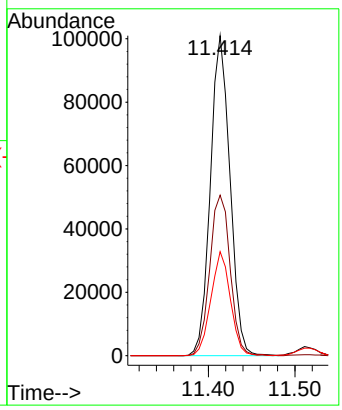




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:117 Resp: 15891

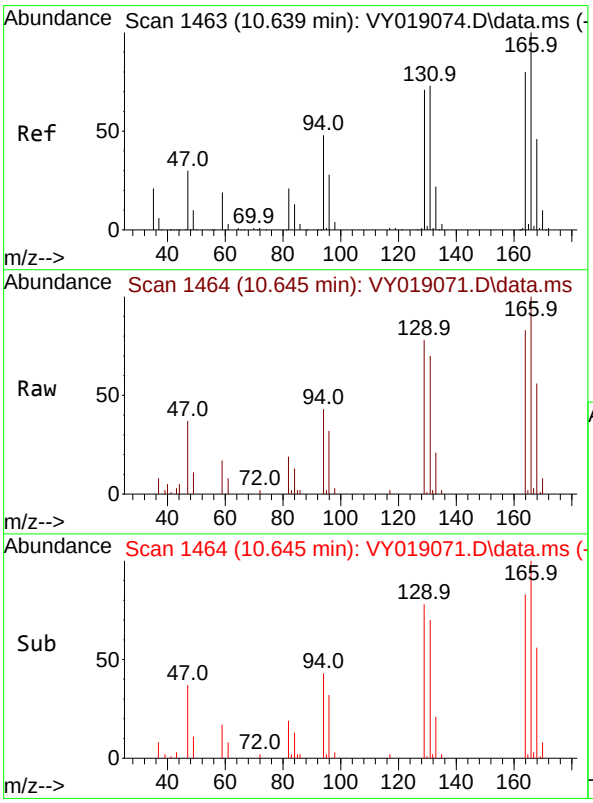
Ion	Ratio	Lower	Upper
117	100		
82	50.2	42.4	63.6
119	32.5	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

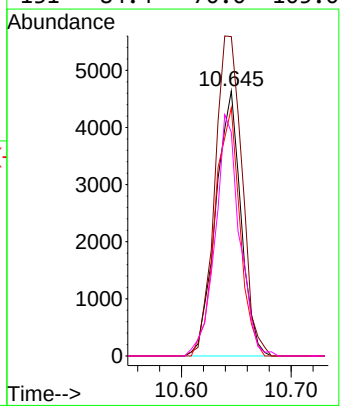
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

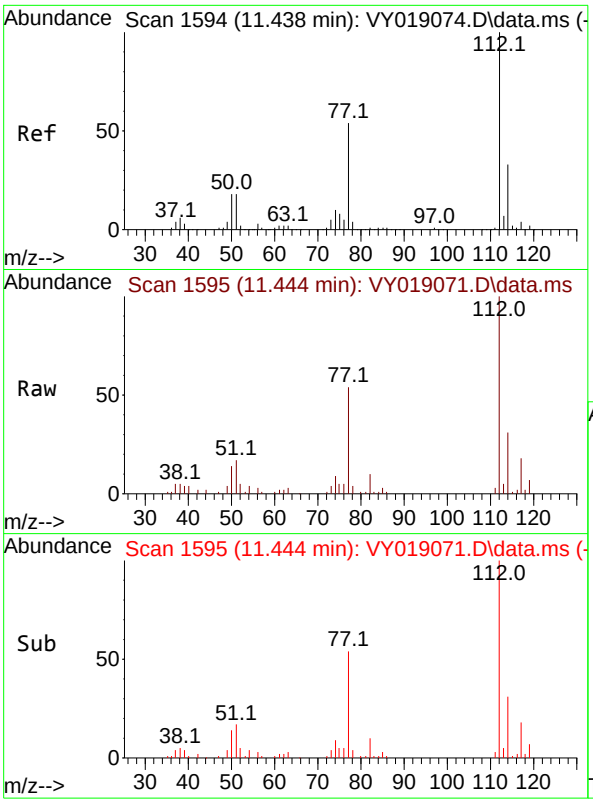


#64
Tetrachloroethene
Concen: 5.348 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:164 Resp: 7429

Ion	Ratio	Lower	Upper
164	100		
166	120.5	102.6	154.0
129	93.6	72.0	108.0
131	84.4	70.0	105.0

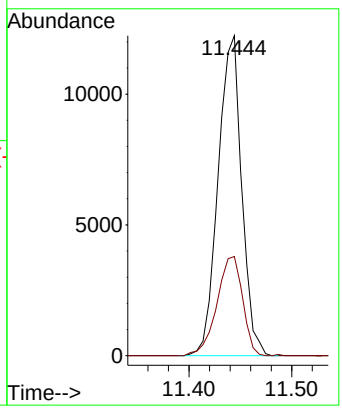




#65
Chlorobenzene
Concen: 5.324 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:112 Resp: 1948

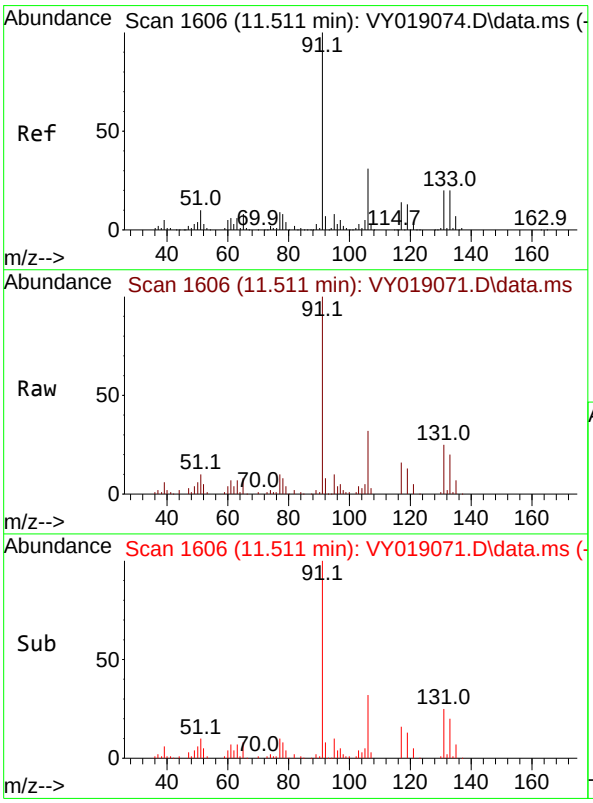
Ion	Ratio	Lower	Upper
112	100		
114	31.0	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

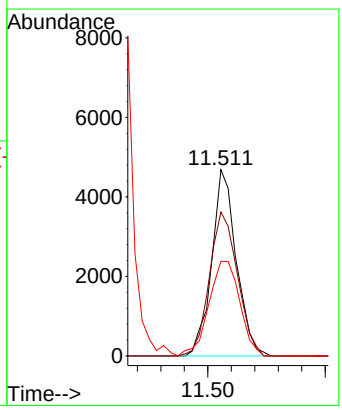
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

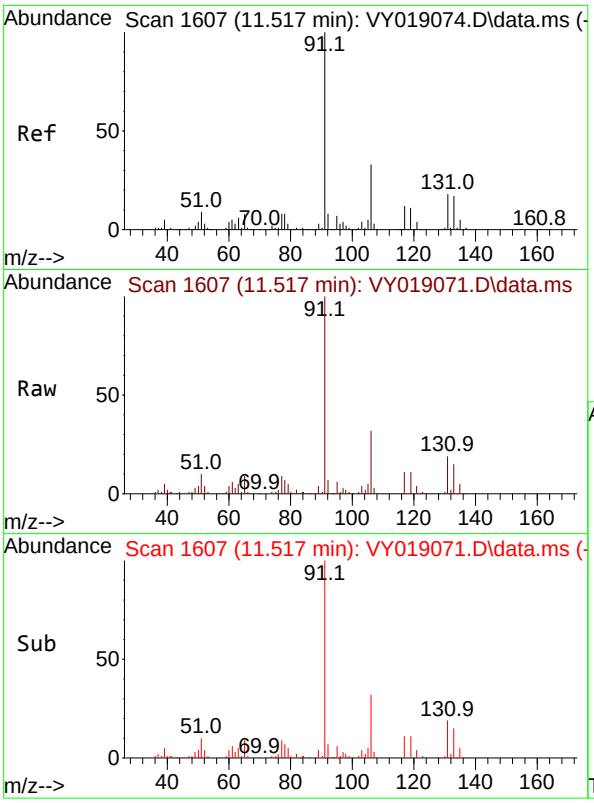


#66
1,1,1,2-Tetrachloroethane
Concen: 5.295 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:131 Resp: 6814

Ion	Ratio	Lower	Upper
131	100		
133	88.2	47.8	143.3
119	63.9	34.1	102.2





#67
Ethyl Benzene
Concen: 5.199 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

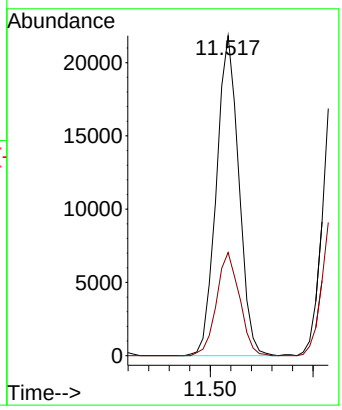
Tgt Ion: 91 Resp: 3301

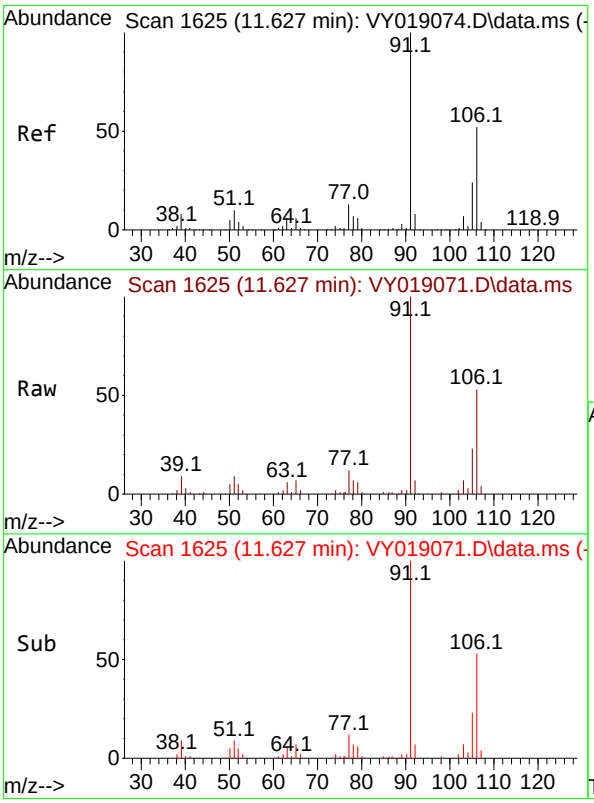
Ion	Ratio	Lower	Upper
91	100		
106	32.2	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

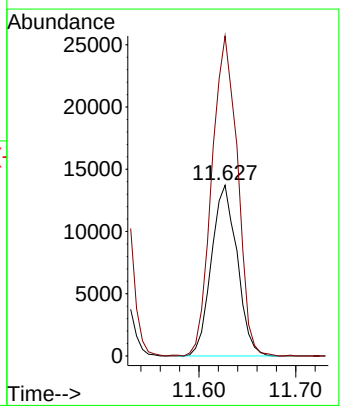


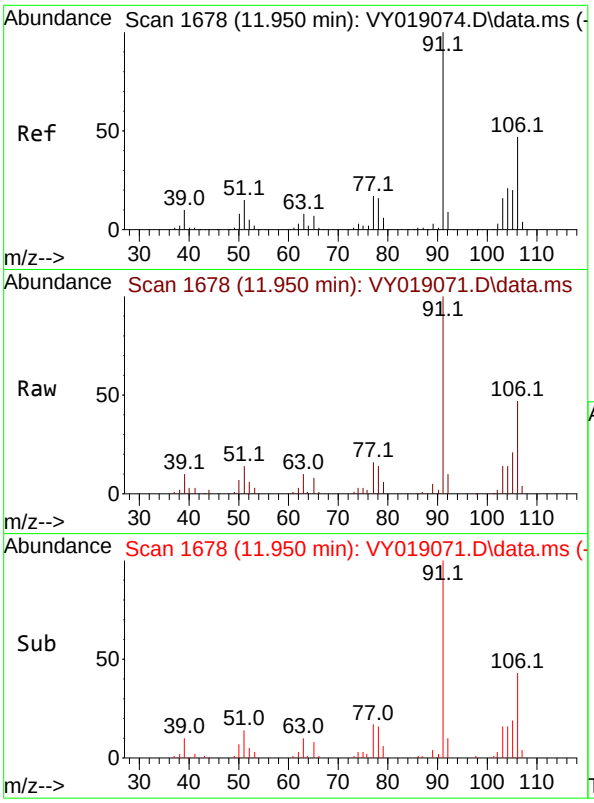


#68
m/p-Xylenes
Concen: 10.058 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:106 Resp: 25348

Ion	Ratio	Lower	Upper
106	100		
91	187.3	156.0	234.0

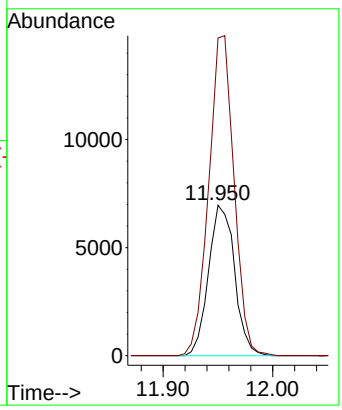




#69
o-Xylene
Concen: 4.932 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:106 Resp: 1151

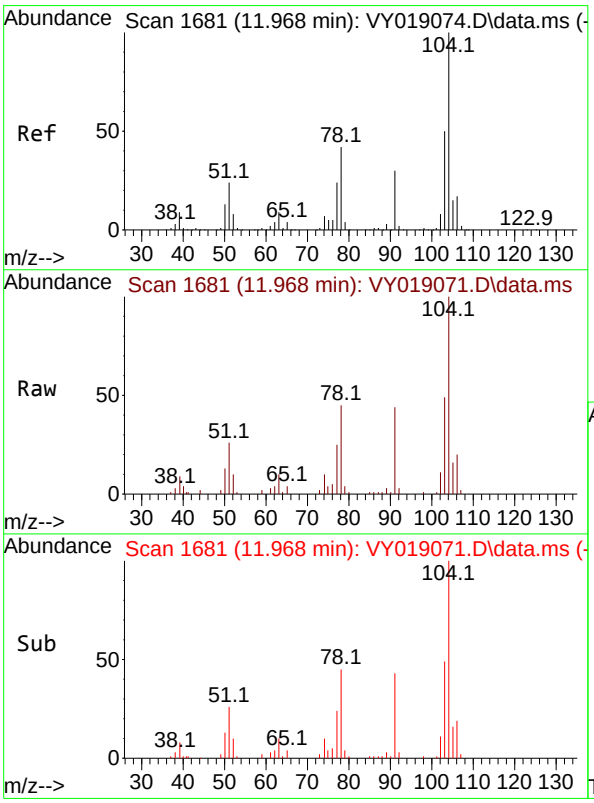
Ion	Ratio	Lower	Upper
106	100		
91	206.9	103.6	310.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

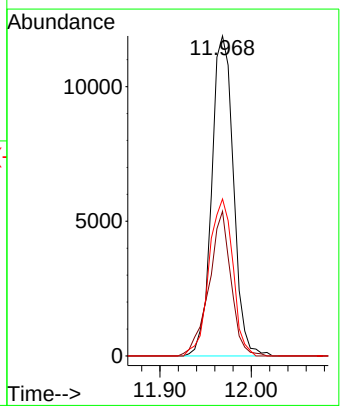
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

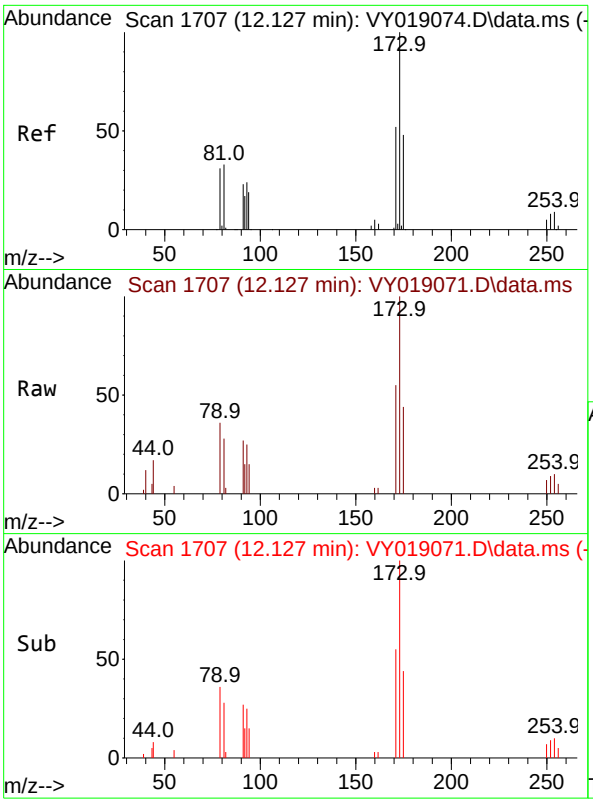


#70
Styrene
Concen: 4.943 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:104 Resp: 19672

Ion	Ratio	Lower	Upper
104	100		
78	45.4	37.0	55.4
103	53.6	44.2	66.2

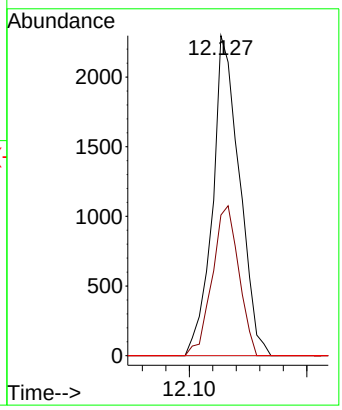




#71
Bromoform
Concen: 4.970 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:173 Resp: 365

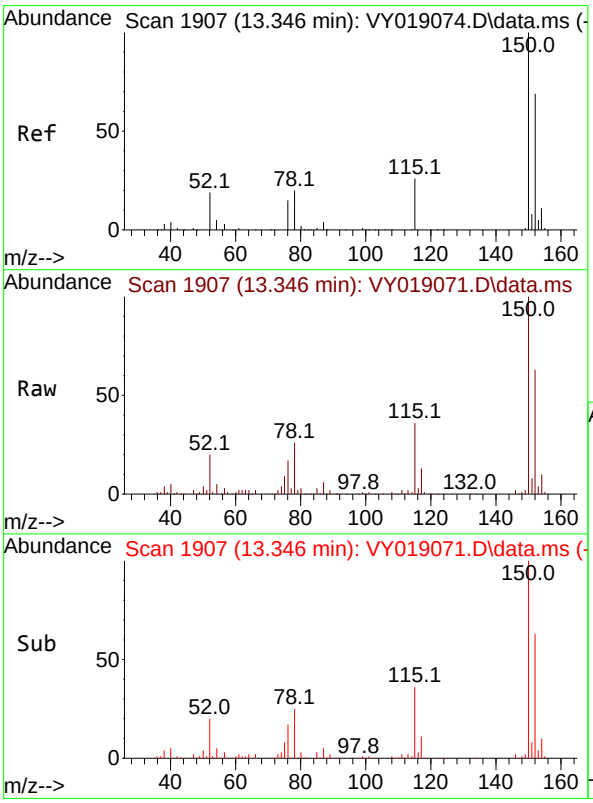
Ion	Ratio	Lower	Upper
173	100		
175	46.1	25.1	75.3
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

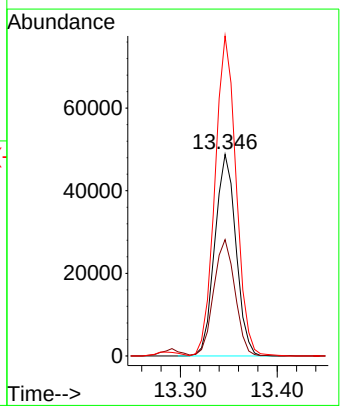
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

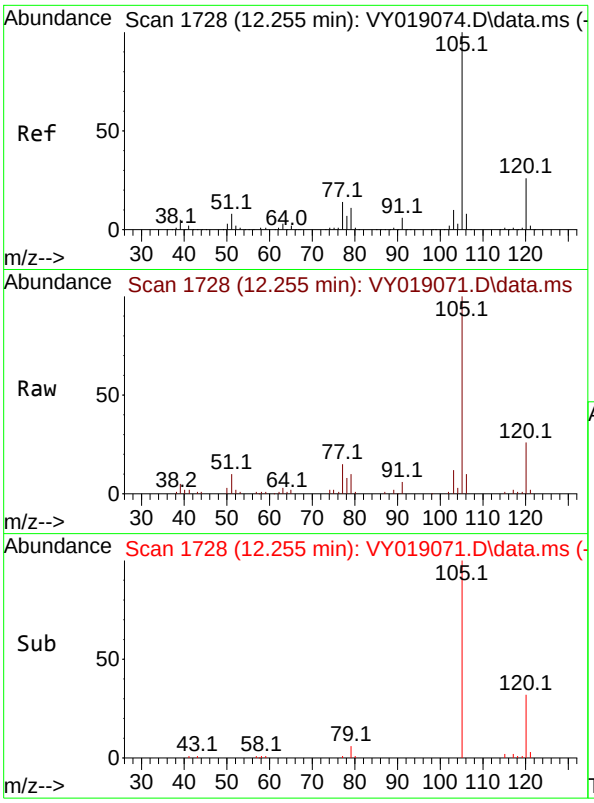


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:152 Resp: 73893

Ion	Ratio	Lower	Upper
152	100		
115	58.2	28.2	84.7
150	159.2	0.0	345.6

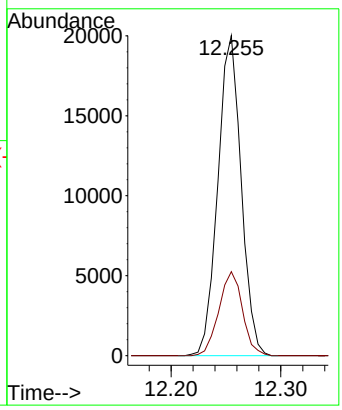




#73
Isopropylbenzene
Concen: 5.221 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:105 Resp: 2956

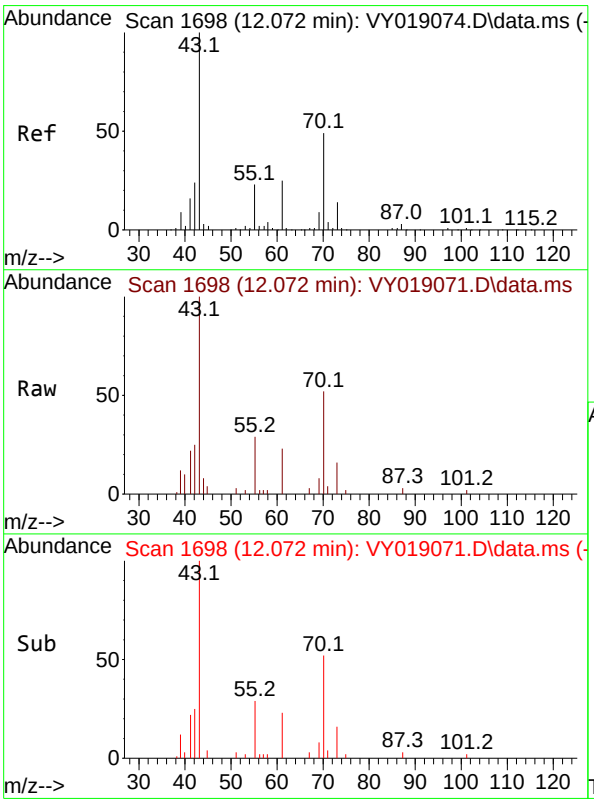
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

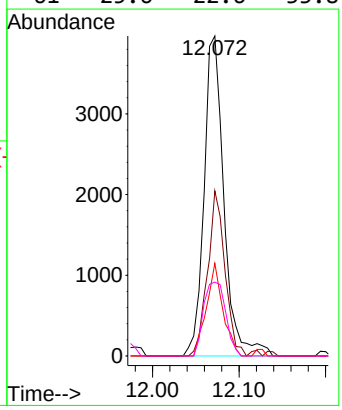
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

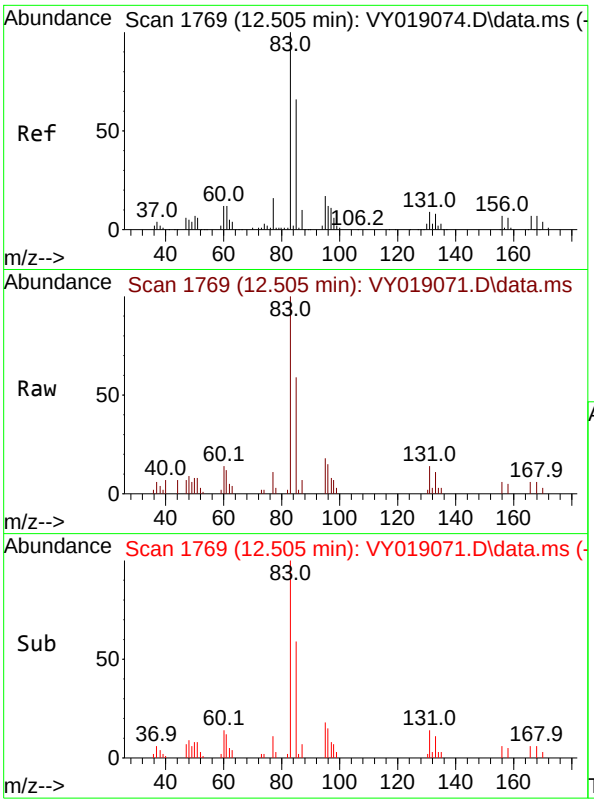


#74
N-amyl acetate
Concen: 5.130 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 43 Resp: 6335

Ion	Ratio	Lower	Upper
43	100		
70	45.0	41.4	62.2
55	24.2	23.3	34.9
61	25.6	22.6	33.8

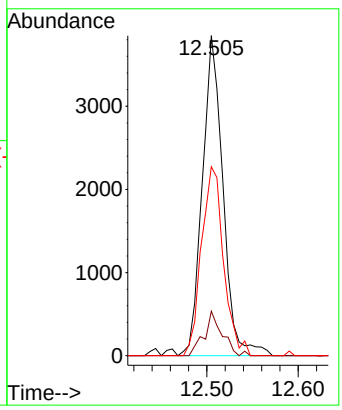




#75
1,1,2,2-Tetrachloroethane
Concen: 5.988 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 83 Resp: 603

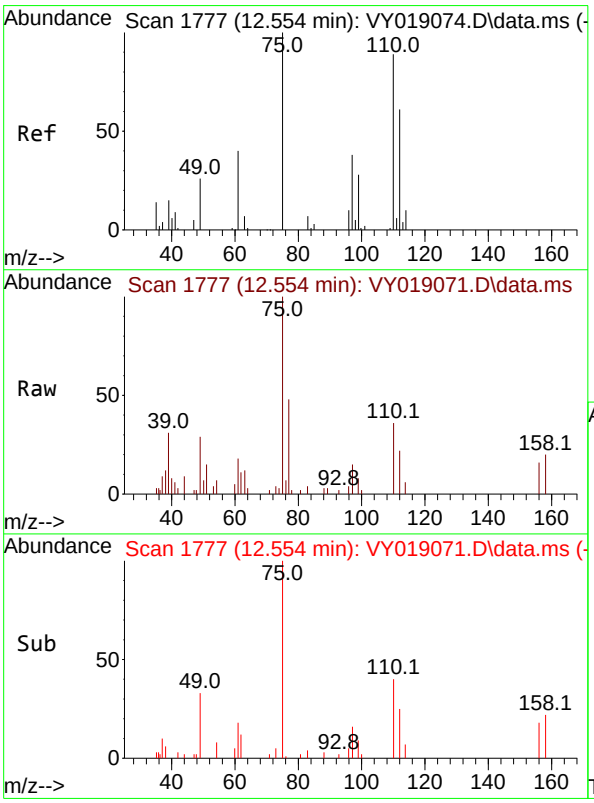
Ion	Ratio	Lower	Upper
83	100		
131	12.2	5.0	14.9
85	63.1	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

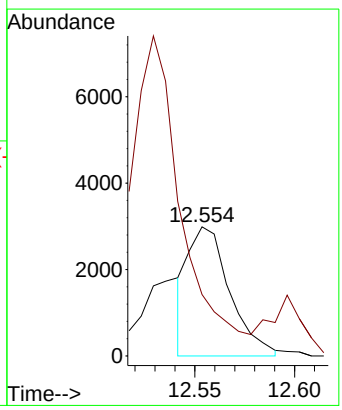
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

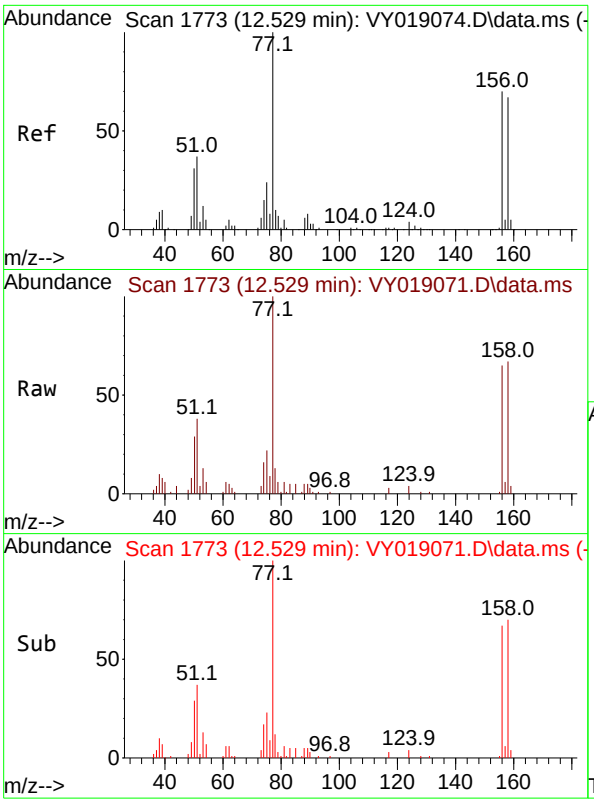


#76
1,2,3-Trichloropropane
Concen: 6.185 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 75 Resp: 4341

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

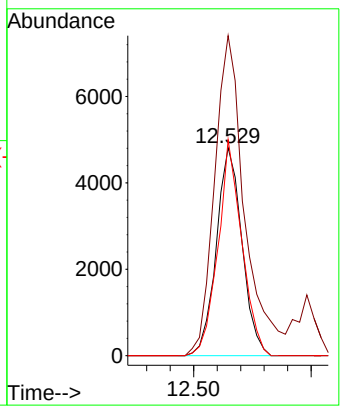




#77
Bromobenzene
Concen: 5.369 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:156 Resp: 730

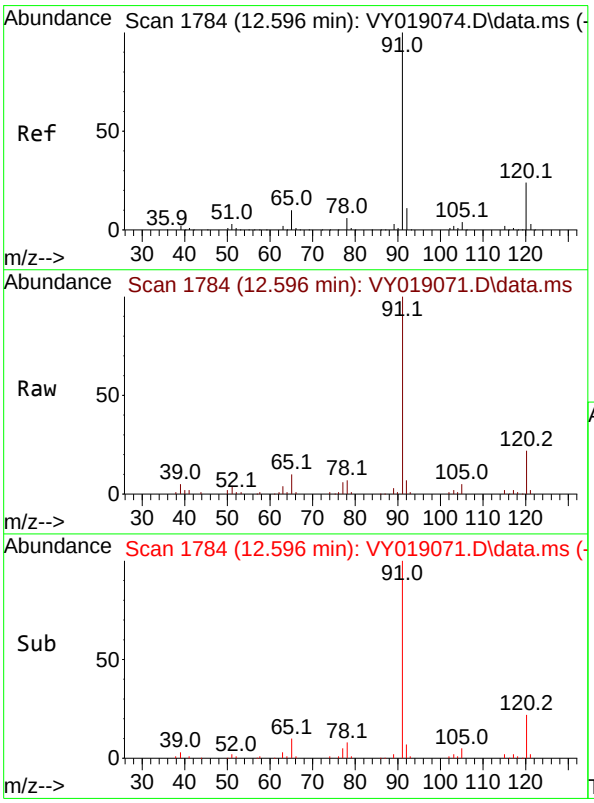
Ion	Ratio	Lower	Upper
156	100		
77	181.1	87.1	261.3
158	96.5	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

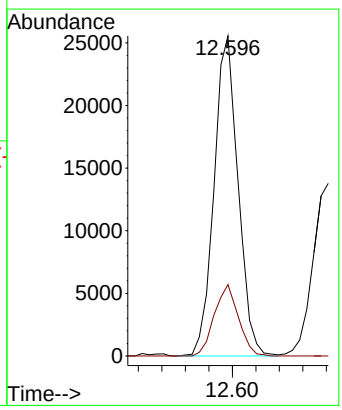
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

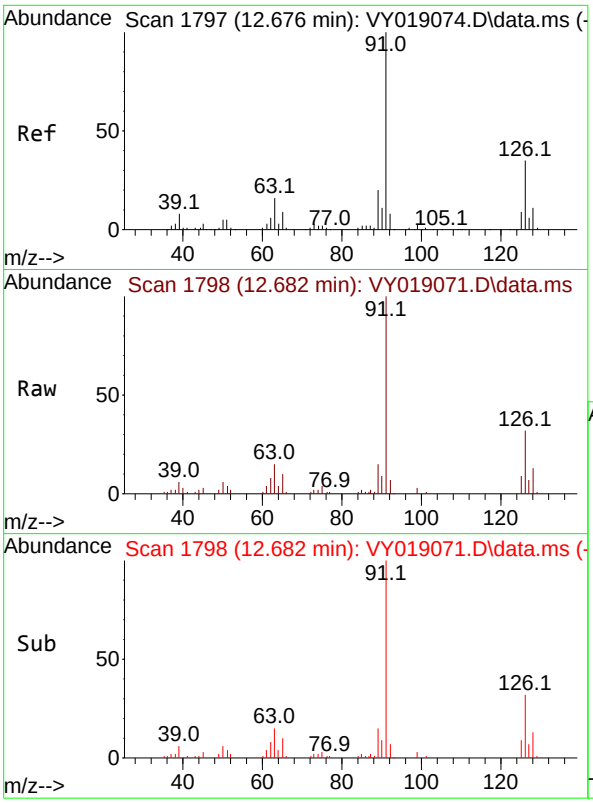


#78
n-propylbenzene
Concen: 5.357 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 91 Resp: 36268

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.5	34.4

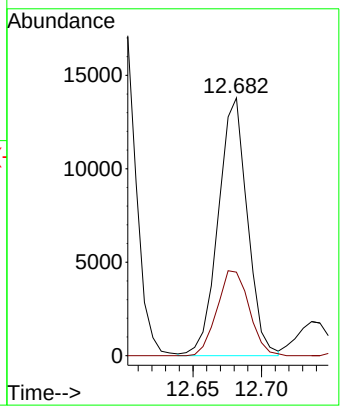




#79
2-Chlorotoluene
Concen: 5.373 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 91 Resp: 2039

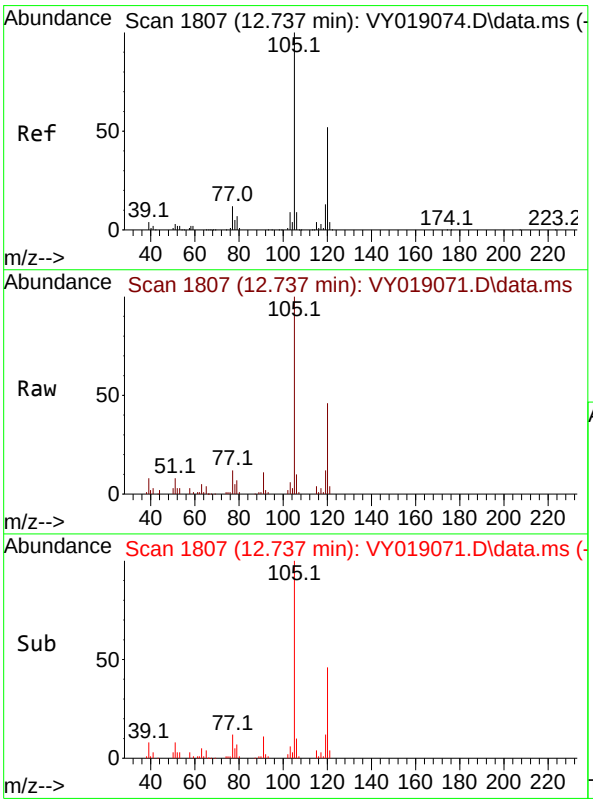
Ion	Ratio	Lower	Upper
91	100		
126	36.4	17.8	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

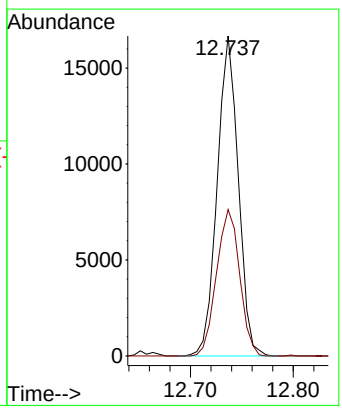
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

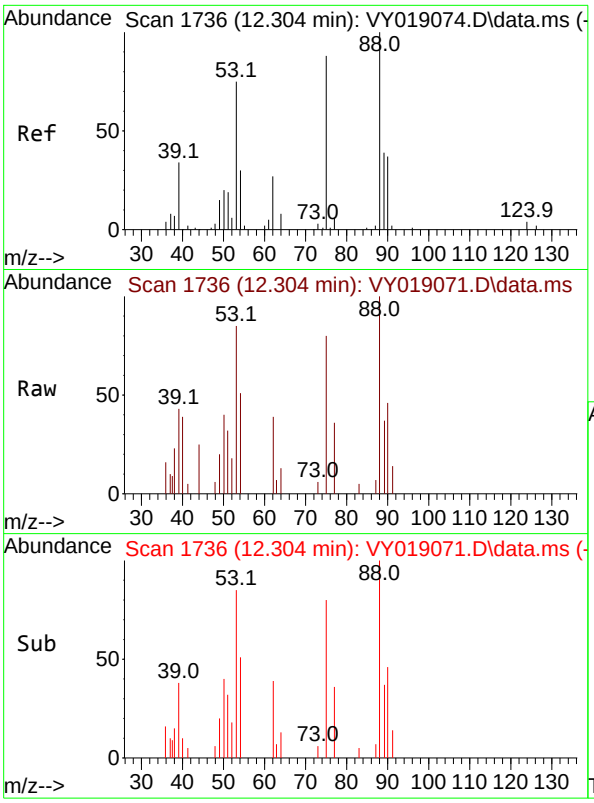


#80
1,3,5-Trimethylbenzene
Concen: 5.139 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:105 Resp: 23712

Ion	Ratio	Lower	Upper
105	100		
120	50.2	25.1	75.2

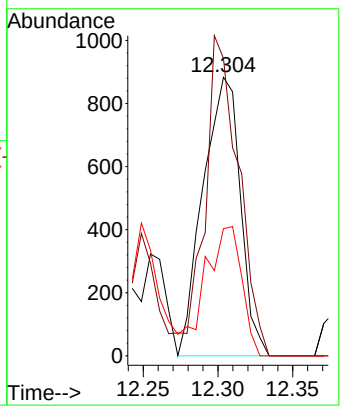




#81
trans-1,4-Dichloro-2-butene
Concen: 5.199 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 75 Resp: 153

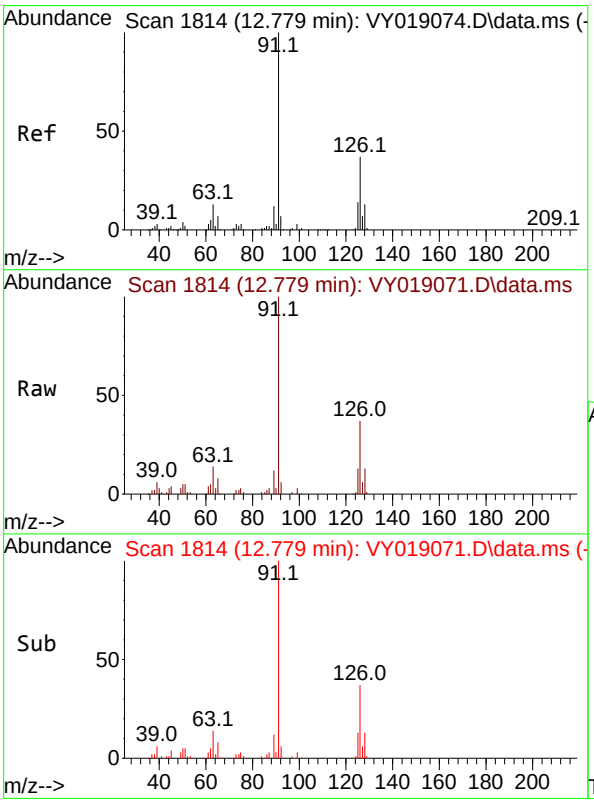
Ion	Ratio	Lower	Upper
75	100		
53	104.0	66.8	100.2
89	45.2	35.8	53.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

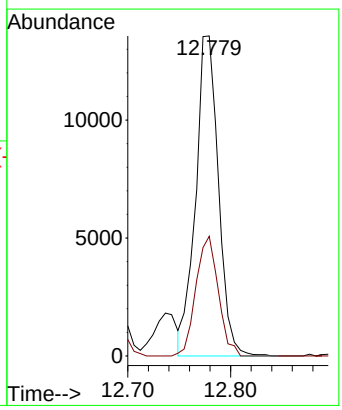
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

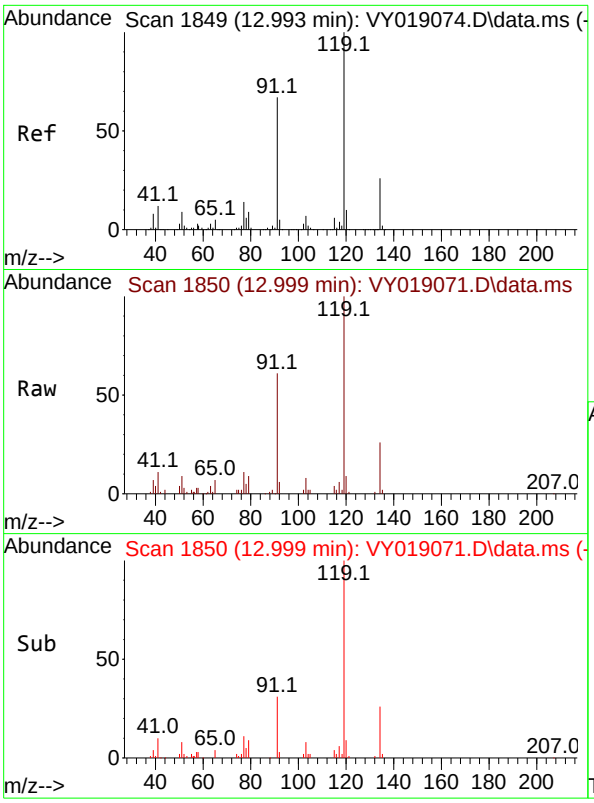


#82
4-Chlorotoluene
Concen: 5.314 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 91 Resp: 20986

Ion	Ratio	Lower	Upper
91	100		
126	36.6	17.6	52.9

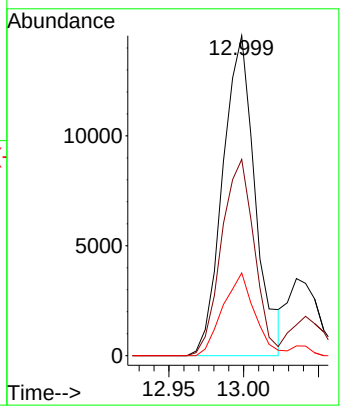




#83
tert-Butylbenzene
Concen: 5.148 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:119 Resp: 2193

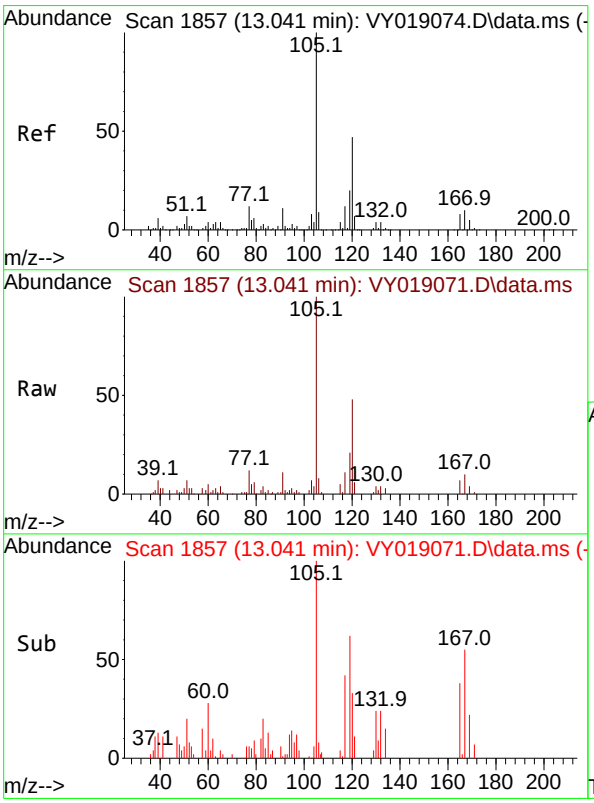
Ion	Ratio	Lower	Upper
119	100		
91	62.1	31.3	93.8
134	25.6	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

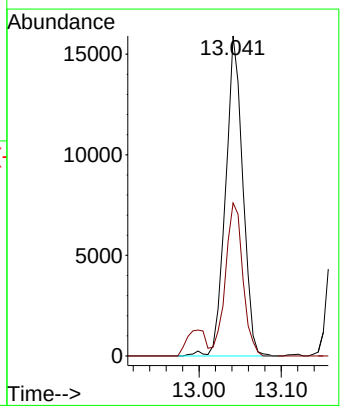
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

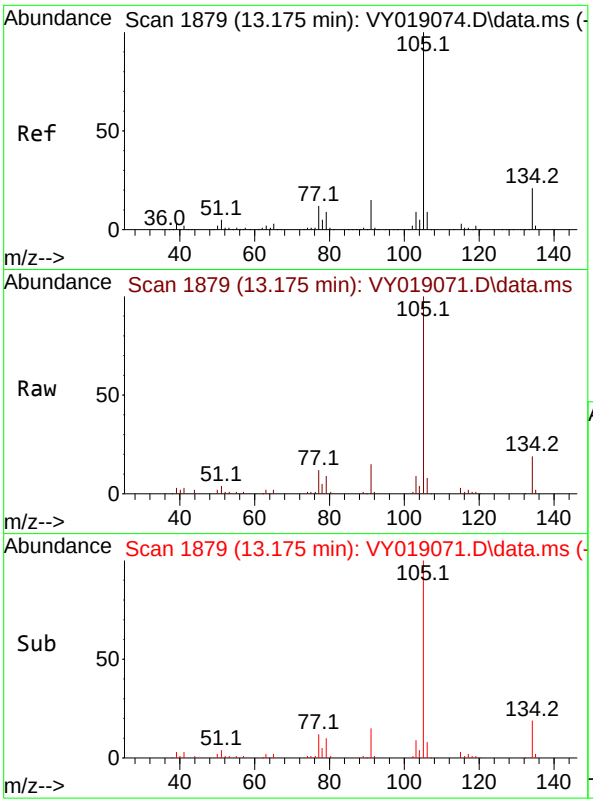


#84
1,2,4-Trimethylbenzene
Concen: 5.035 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:105 Resp: 23152

Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.2	69.6





#85
sec-Butylbenzene
Concen: 5.201 ug/l
RT: 13.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

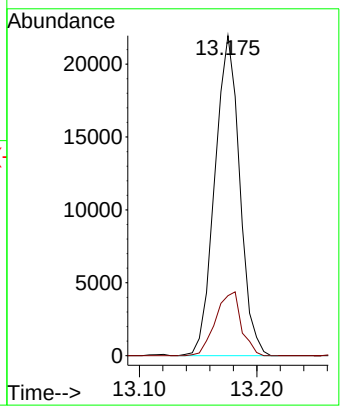
Tgt Ion:105 Resp: 3229

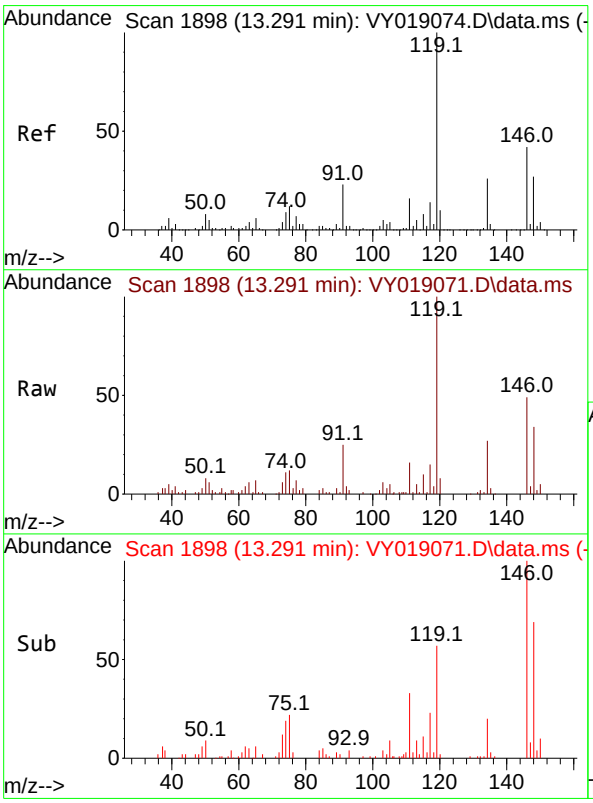
Ion	Ratio	Lower	Upper
105	100		
134	20.6	10.1	30.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

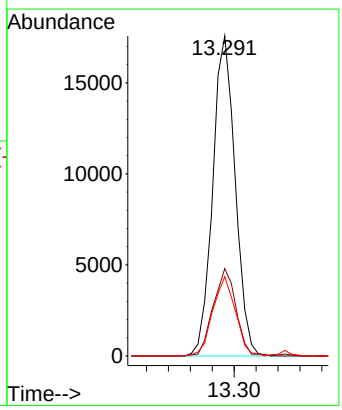


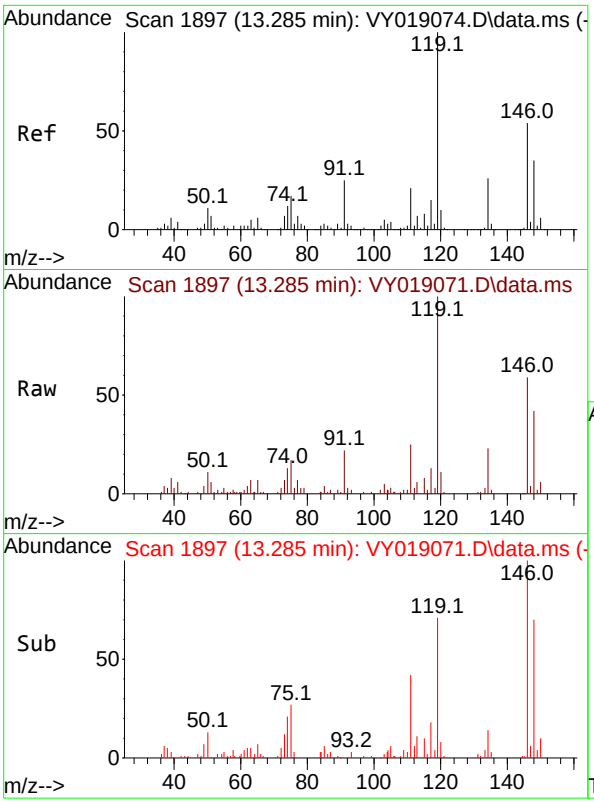


#86
p-Isopropyltoluene
Concen: 4.899 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:119 Resp: 24986

Ion	Ratio	Lower	Upper
119	100		
134	27.7	13.1	39.3
91	25.1	10.7	32.1

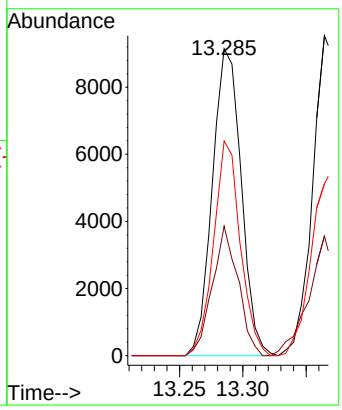




#87
1,3-Dichlorobenzene
Concen: 5.402 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:146 Resp: 1449

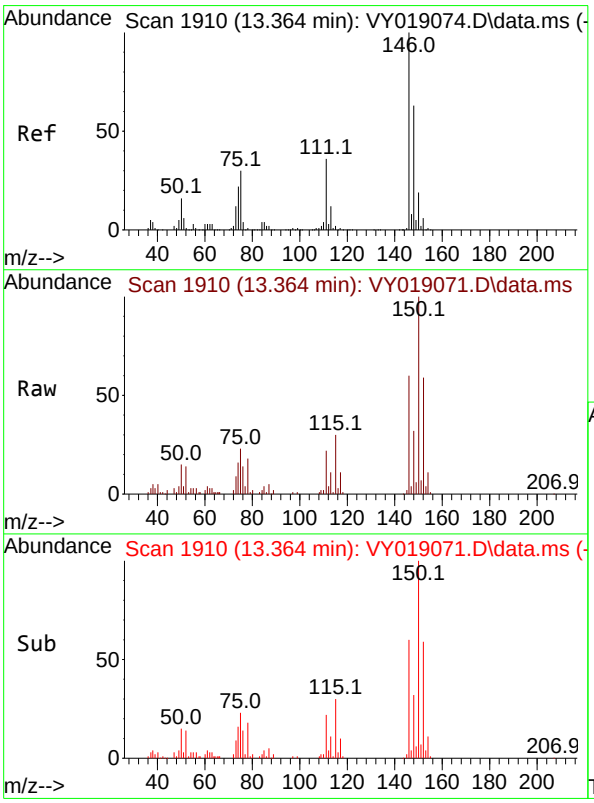
Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.0	57.0
148	64.9	31.7	95.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

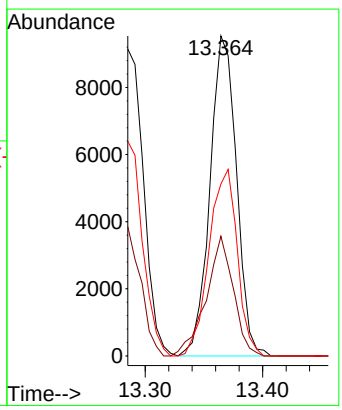
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

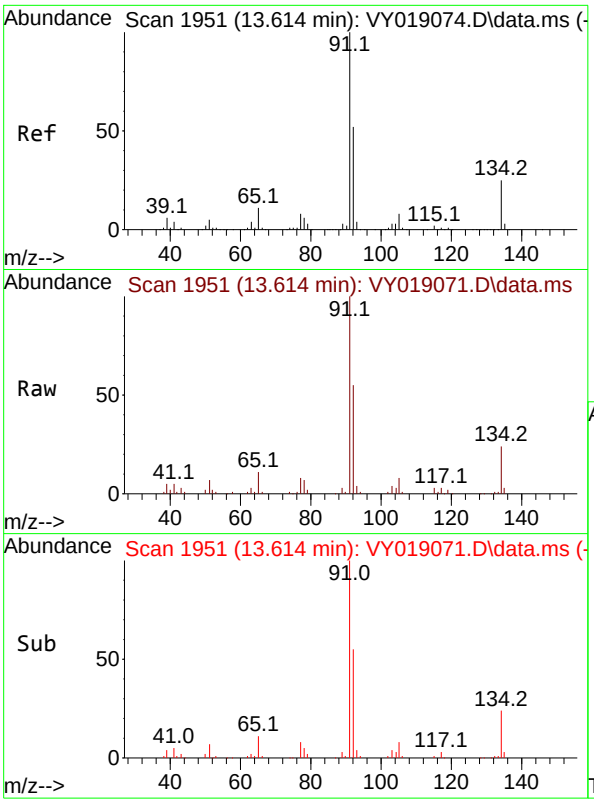


#88
1,4-Dichlorobenzene
Concen: 5.615 ug/l
RT: 13.364 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:146 Resp: 14972

Ion	Ratio	Lower	Upper
146	100		
111	38.5	18.4	55.4
148	62.2	32.4	97.2

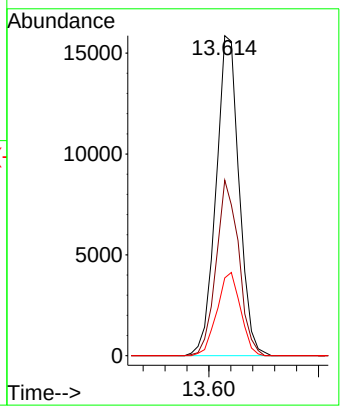




#89
n-Butylbenzene
Concen: 4.984 ug/l
RT: 13.614 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 91 Resp: 2317

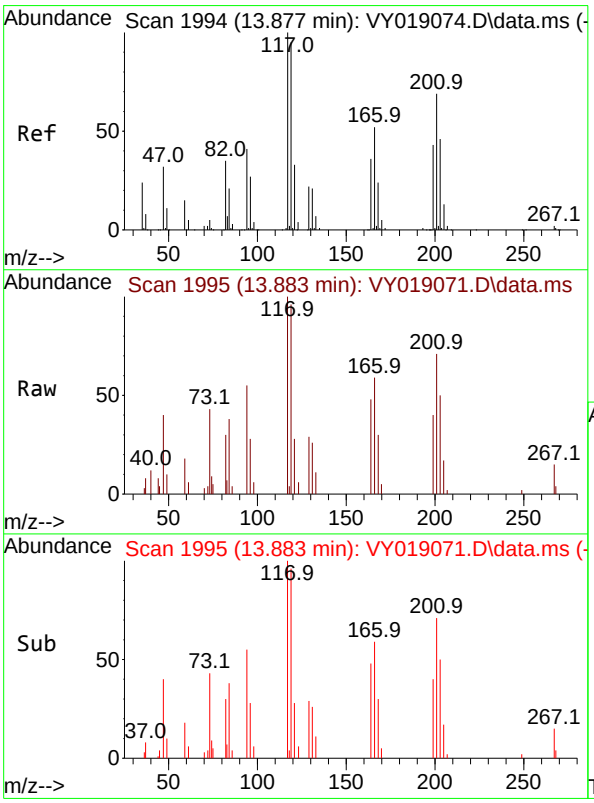
Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.6	79.7
134	26.6	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

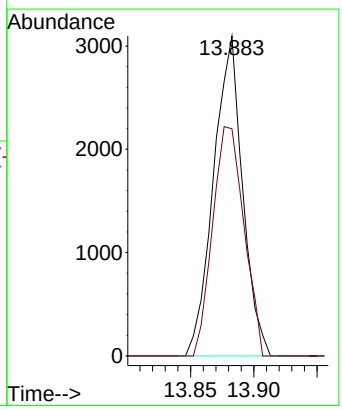
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

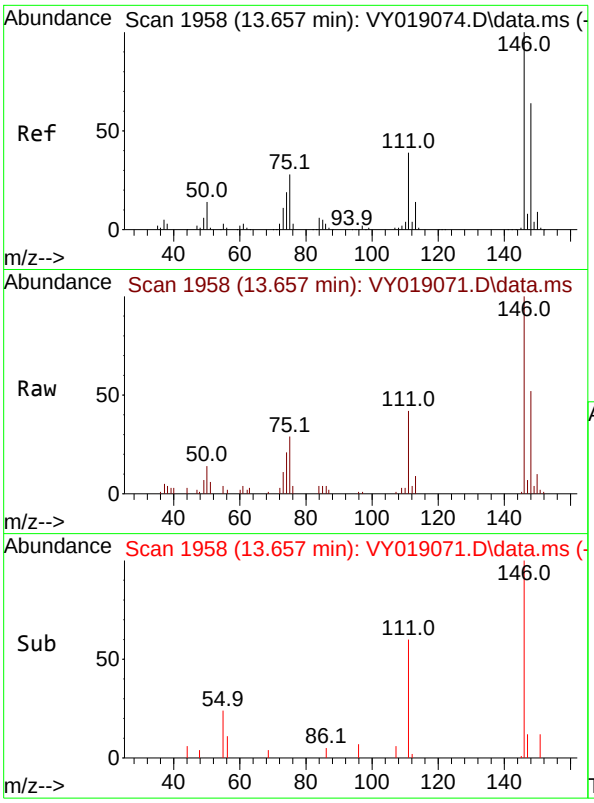


#90
Hexachloroethane
Concen: 4.911 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:117 Resp: 4937

Ion	Ratio	Lower	Upper
117	100		
201	77.3	37.4	112.2

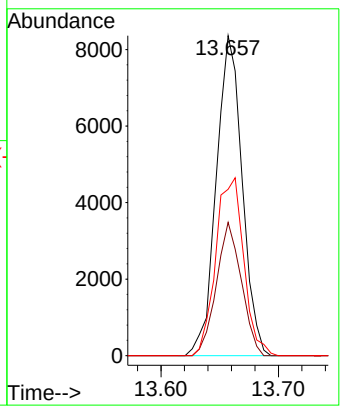




#91
1,2-Dichlorobenzene
Concen: 5.433 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:146 Resp: 1281

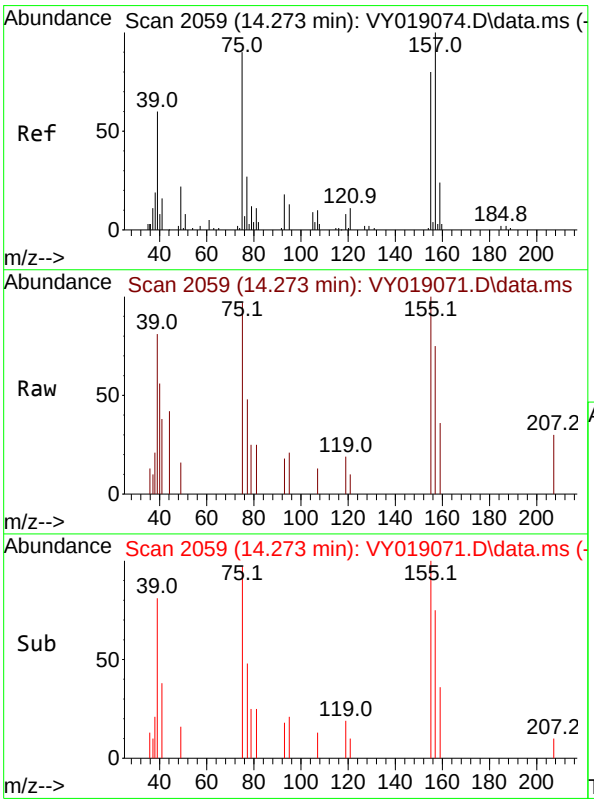
Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.9	59.7
148	60.1	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

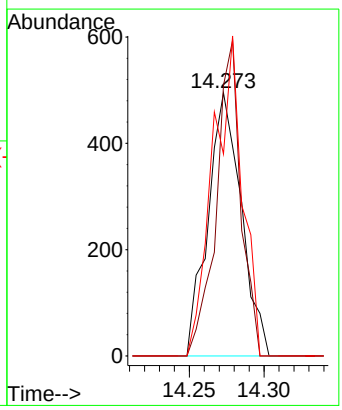
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

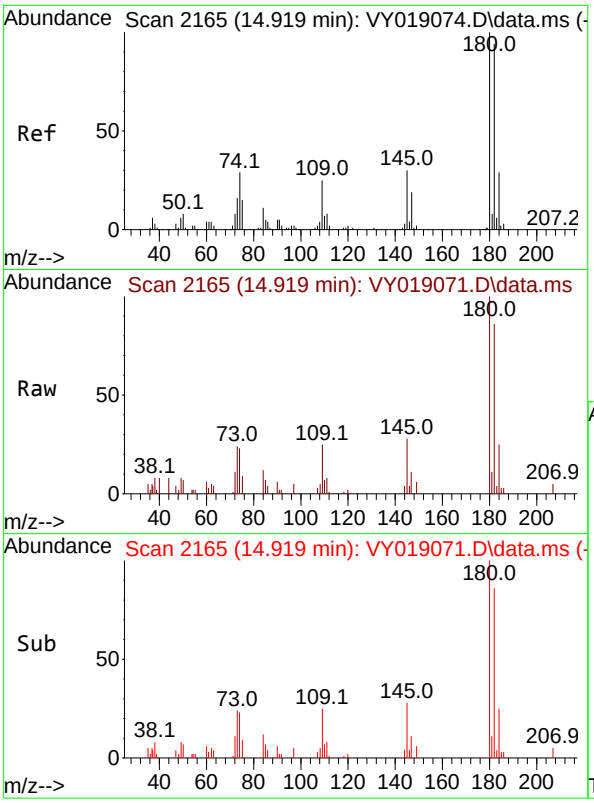


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.171 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion: 75 Resp: 767

Ion	Ratio	Lower	Upper
75	100		
155	88.3	48.6	145.8
157	106.8	62.7	188.2

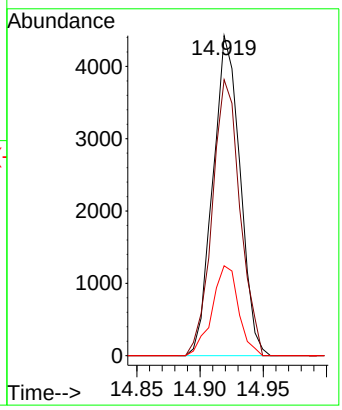




#93
1,2,4-Trichlorobenzene
Concen: 4.965 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:180 Resp: 660

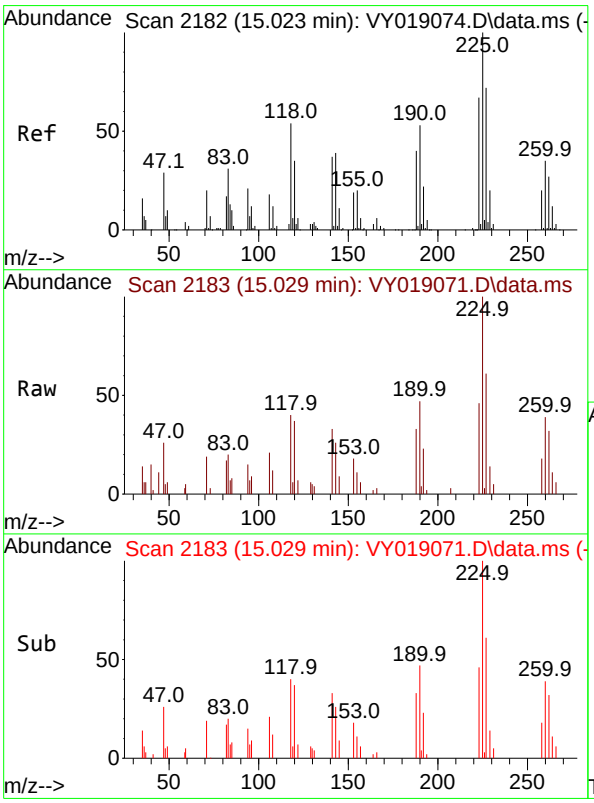
Ion	Ratio	Lower	Upper
180	100		
182	88.2	47.9	143.8
145	27.3	14.2	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

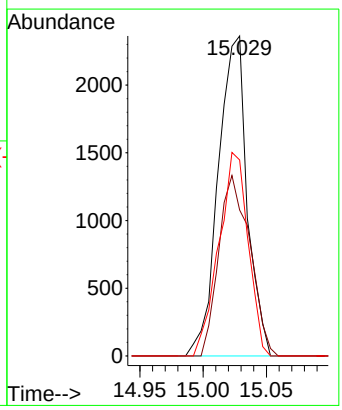
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

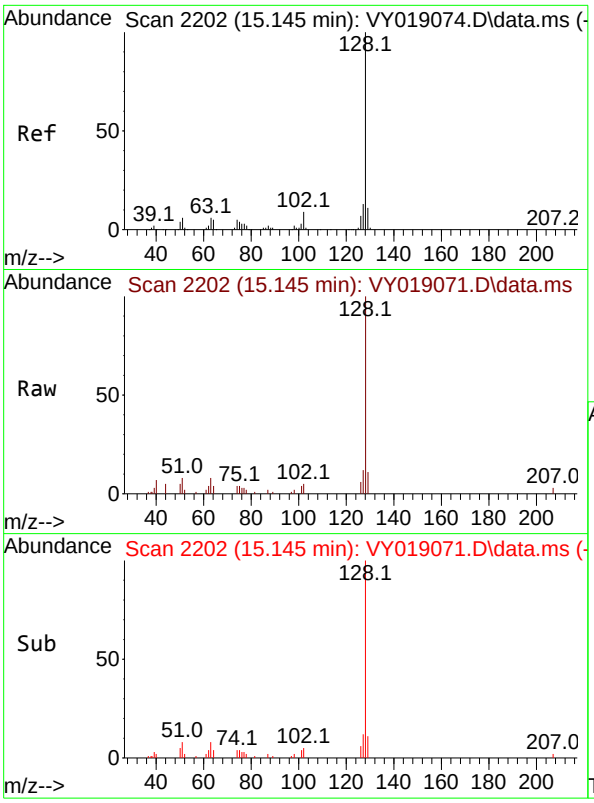


#94
Hexachlorobutadiene
Concen: 5.417 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:225 Resp: 3754

Ion	Ratio	Lower	Upper
225	100		
223	60.8	30.4	91.2
227	64.5	31.9	95.9

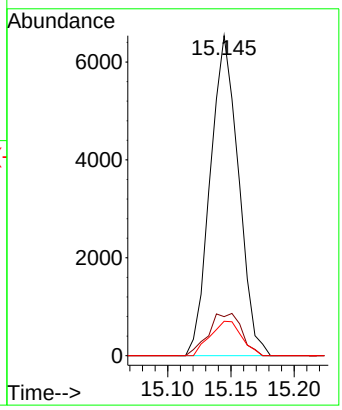




#95
Naphthalene
Concen: 4.268 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:128 Resp: 1013

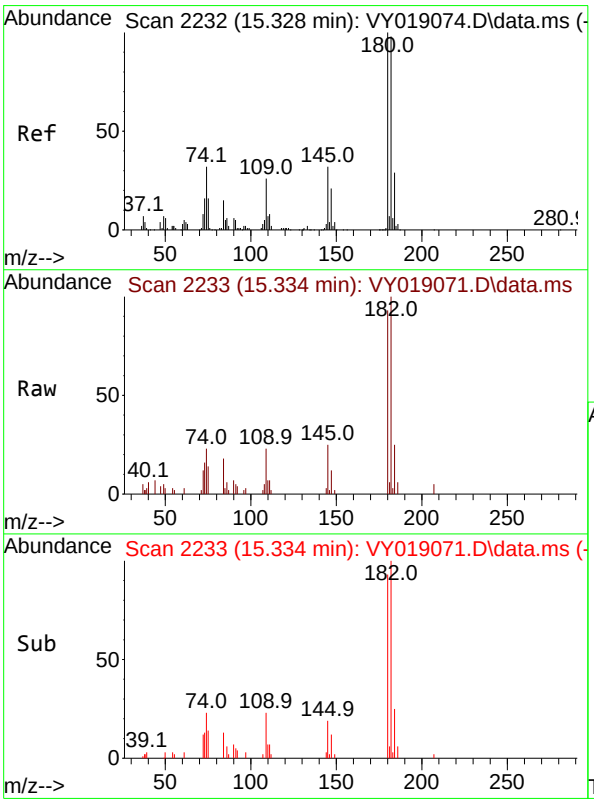
Ion	Ratio	Lower	Upper
128	100		
127	15.6	10.6	16.0
129	12.0	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

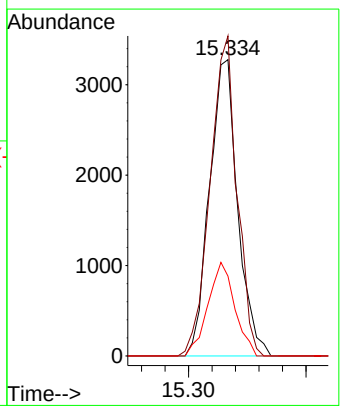
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024



#96
1,2,3-Trichlorobenzene
Concen: 4.869 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY019071.D
Acq: 15 Aug 2024 17:24

Tgt Ion:180 Resp: 5464

Ion	Ratio	Lower	Upper
180	100		
182	102.1	47.6	142.9
145	30.1	15.4	46.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019072.D
Acq On : 15 Aug 2024 18:13
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 04:56:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.695	168	126628	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.603	114	200923	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	170231	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	80619	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.049	65	11898	9.373	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	18.740%#		
35) Dibromofluoromethane	7.616	113	12663	9.639	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	19.280%#		
50) Toluene-d8	10.097	98	46971	9.935	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	19.880%#		
62) 4-Bromofluorobenzene	12.402	95	15231	9.450	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	18.900%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	9047	9.738	ug/l	92
3) Chloromethane	2.062	50	18377	10.974	ug/l	99
4) Vinyl Chloride	2.196	62	22741	10.994	ug/l	97
5) Bromomethane	2.586	94	16313	7.944	ug/l	97
6) Chloroethane	2.726	64	14305	9.937	ug/l	92
7) Trichlorofluoromethane	3.043	101	34028	10.881	ug/l	97
8) Diethyl Ether	3.446	74	6951	10.297	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.799	101	15382	11.064	ug/l	98
10) Methyl Iodide	3.994	142	13127	9.633	ug/l	93
11) Tert butyl alcohol	4.830	59	8834	48.219	ug/l	99
12) 1,1-Dichloroethene	3.781	96	13389	10.600	ug/l	93
13) Acrolein	3.635	56	5229	38.150	ug/l	100
14) Allyl chloride	4.372	41	16954	10.095	ug/l	93
15) Acrylonitrile	5.037	53	12726	46.075	ug/l	96
16) Acetone	3.854	43	11041	46.902	ug/l #	86
17) Carbon Disulfide	4.092	76	36444	10.229	ug/l	98
18) Methyl Acetate	4.379	43	6867	9.505	ug/l	95
19) Methyl tert-butyl Ether	5.104	73	28497	9.306	ug/l	93
20) Methylene Chloride	4.592	84	24435	8.155	ug/l	94
21) trans-1,2-Dichloroethene	5.098	96	14860	10.530	ug/l	91
22) Diisopropyl ether	6.006	45	37360	9.718	ug/l #	91
23) Vinyl Acetate	5.939	43	136869	44.968	ug/l	99
24) 1,1-Dichloroethane	5.891	63	24189	10.288	ug/l	98
25) 2-Butanone	6.878	43	16671	43.974	ug/l	93
26) 2,2-Dichloropropane	6.866	77	19423	10.202	ug/l	100
27) cis-1,2-Dichloroethene	6.872	96	16469	9.917	ug/l	95
28) Bromochloromethane	7.226	49	9925	10.064	ug/l	94
29) Tetrahydrofuran	7.250	42	10901	44.731	ug/l	87
30) Chloroform	7.409	83	26188	9.996	ug/l	98
31) Cyclohexane	7.689	56	22980	9.160	ug/l	97
32) 1,1,1-Trichloroethane	7.604	97	21949	9.533	ug/l	93
36) 1,1-Dichloropropene	7.817	75	19006	10.535	ug/l	97
37) Ethyl Acetate	6.963	43	7518	9.406	ug/l #	92
38) Carbon Tetrachloride	7.805	117	21112	10.098	ug/l	92
39) Methylcyclohexane	9.097	83	24271	10.484	ug/l	87
40) Benzene	8.067	78	55940	10.111	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019072.D
Acq On : 15 Aug 2024 18:13
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 16 04:56:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	4139m	10.015	ug/l		
42) 1,2-Dichloroethane	8.152	62	14039	9.396	ug/l		99
43) Isopropyl Acetate	8.183	43	15121	9.355	ug/l		96
44) Trichloroethene	8.853	130	16049	10.396	ug/l		97
45) 1,2-Dichloropropane	9.134	63	12059	9.782	ug/l	#	86
46) Dibromomethane	9.219	93	7592	9.495	ug/l		97
47) Bromodichloromethane	9.414	83	19124	9.749	ug/l		93
48) Methyl methacrylate	9.213	41	6302	8.748	ug/l	#	85
49) 1,4-Dioxane	9.213	88	1894	195.553	ug/l	#	90
51) 4-Methyl-2-Pentanone	9.993	43	38825	45.254	ug/l		91
52) Toluene	10.164	92	36457	10.038	ug/l		96
53) t-1,3-Dichloropropene	10.390	75	14287	8.780	ug/l		92
54) cis-1,3-Dichloropropene	9.853	75	17940	9.167	ug/l		95
55) 1,1,2-Trichloroethane	10.567	97	9683	9.408	ug/l		86
56) Ethyl methacrylate	10.438	69	12086	8.971	ug/l	#	87
57) 1,3-Dichloropropane	10.713	76	15843	9.442	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.701	63	28532	44.642	ug/l		99
59) 2-Hexanone	10.755	43	26359	44.720	ug/l		91
60) Dibromochloromethane	10.908	129	12886	9.192	ug/l		97
61) 1,2-Dibromoethane	11.012	107	9090	9.137	ug/l		98
64) Tetrachloroethene	10.640	164	15602	10.486	ug/l		99
65) Chlorobenzene	11.438	112	39597	10.102	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.518	131	13171	9.555	ug/l		98
67) Ethyl Benzene	11.518	91	67380	9.904	ug/l		97
68) m/p-Xylenes	11.627	106	53785	19.924	ug/l		99
69) o-Xylene	11.956	106	24842	9.937	ug/l		98
70) Styrene	11.969	104	39892	9.358	ug/l		98
71) Bromoform	12.133	173	6912	8.772	ug/l	#	96
73) Isopropylbenzene	12.255	105	63329	10.249	ug/l		98
74) N-amyl acetate	12.072	43	11820	8.773	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	10731	9.755	ug/l		96
76) 1,2,3-Trichloropropane	12.554	75	9036m	11.800	ug/l		
77) Bromobenzene	12.530	156	15134	10.198	ug/l		95
78) n-propylbenzene	12.597	91	76851	10.404	ug/l		99
79) 2-Chlorotoluene	12.676	91	42604	10.288	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	51375	10.206	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	3092	9.605	ug/l		88
82) 4-Chlorotoluene	12.773	91	44180	10.254	ug/l		100
83) tert-Butylbenzene	12.993	119	46629	10.031	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	50831	10.132	ug/l		99
85) sec-Butylbenzene	13.176	105	69746	10.296	ug/l		100
86) p-Isopropyltoluene	13.292	119	57033	10.250	ug/l		97
87) 1,3-Dichlorobenzene	13.286	146	29405	10.048	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	29677	10.201	ug/l		97
89) n-Butylbenzene	13.615	91	51944	10.239	ug/l		98
90) Hexachloroethane	13.877	117	11103	10.124	ug/l		93
91) 1,2-Dichlorobenzene	13.657	146	26008	10.105	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	1469	9.077	ug/l		84
93) 1,2,4-Trichlorobenzene	14.919	180	13519	9.314	ug/l		99
94) Hexachlorobutadiene	15.023	225	7283	9.633	ug/l		97
95) Naphthalene	15.139	128	22580	8.716	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	11247	9.187	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019072.D
Acq On : 15 Aug 2024 18:13
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 04:56:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

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

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

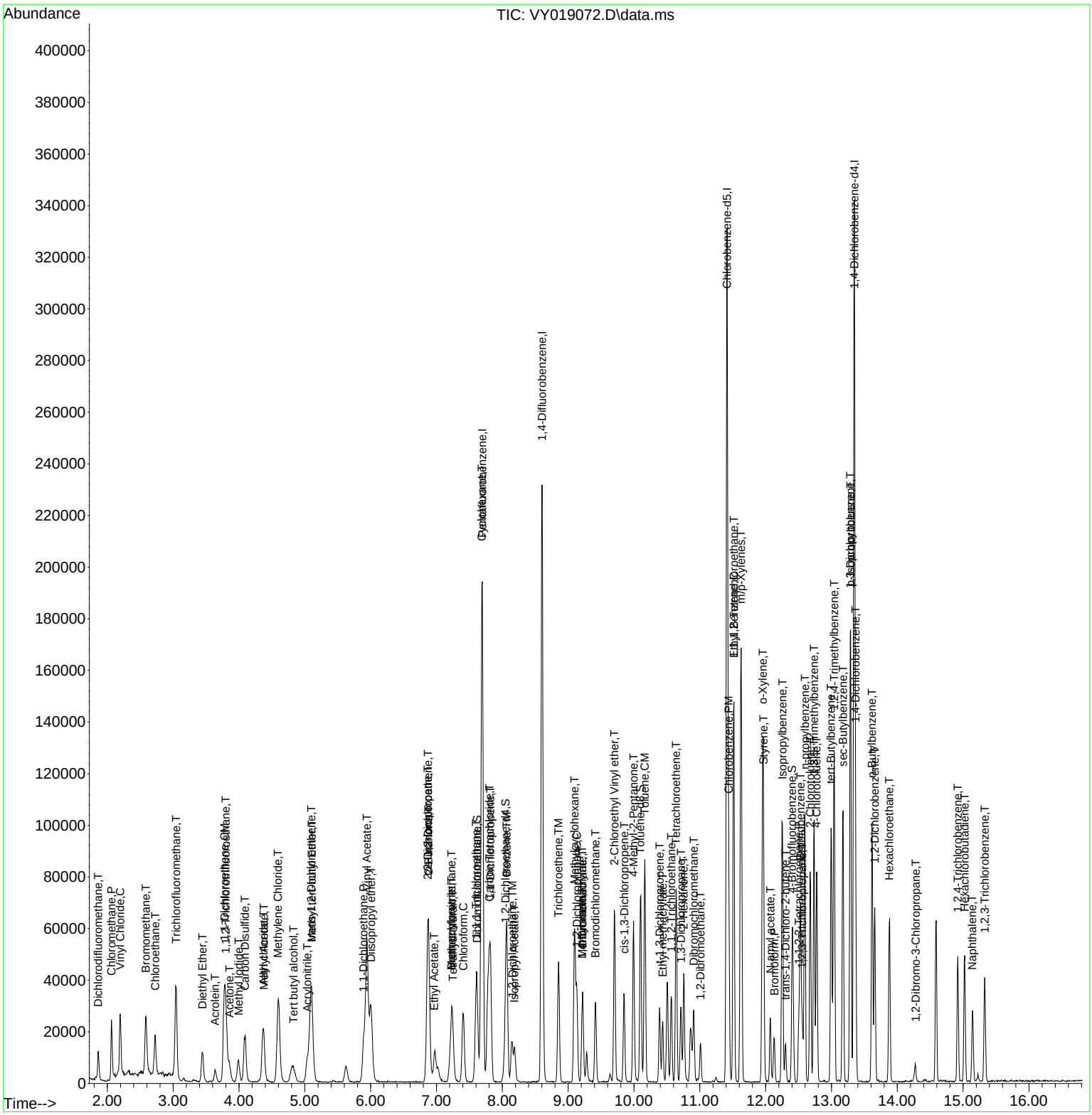
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019072.D
Acq On : 15 Aug 2024 18:13
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

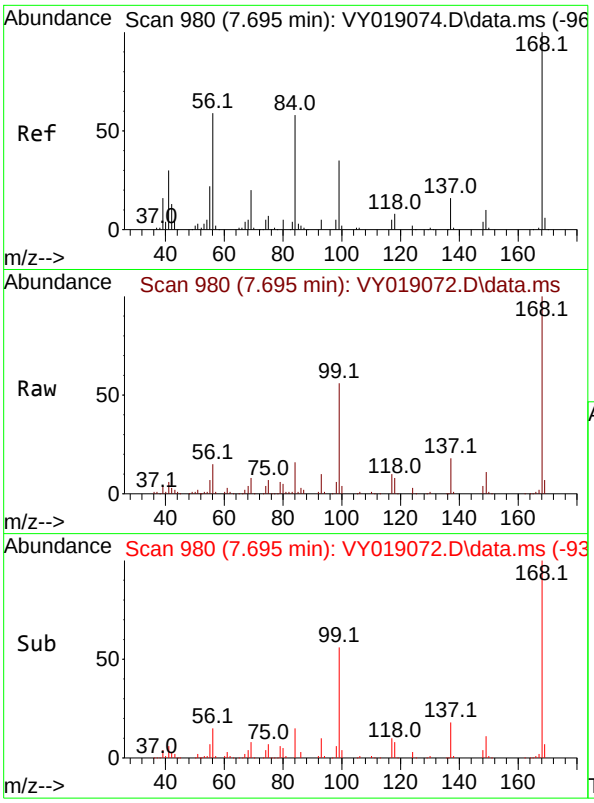
Quant Time: Aug 16 04:56:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

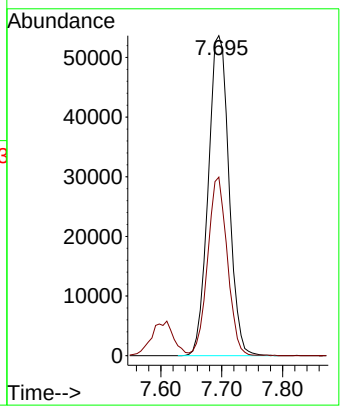




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:168 Resp: 12662

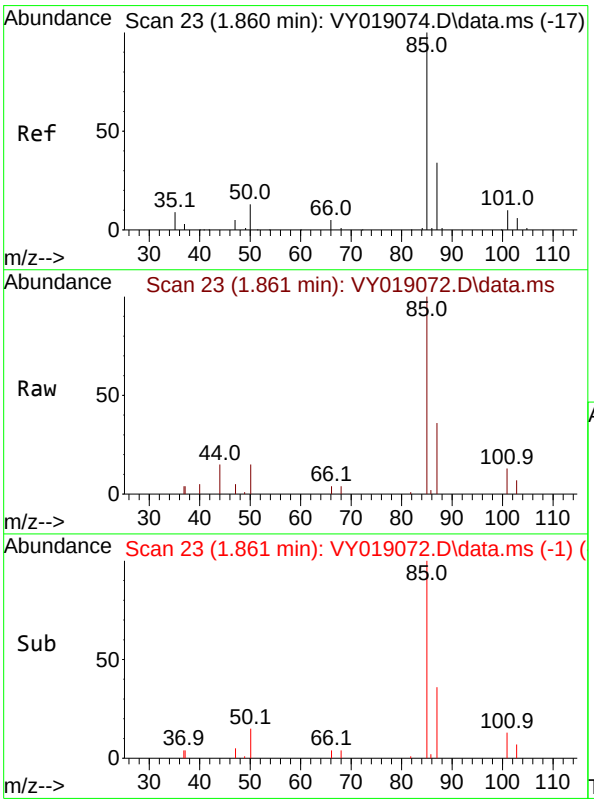
Ion	Ratio	Lower	Upper
168	100		
99	55.8	39.1	58.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

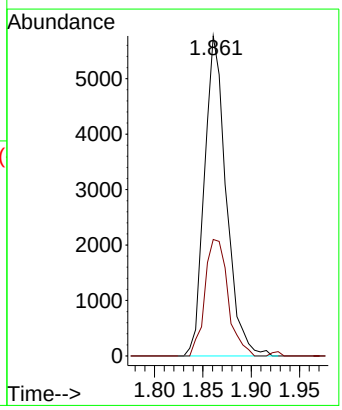
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

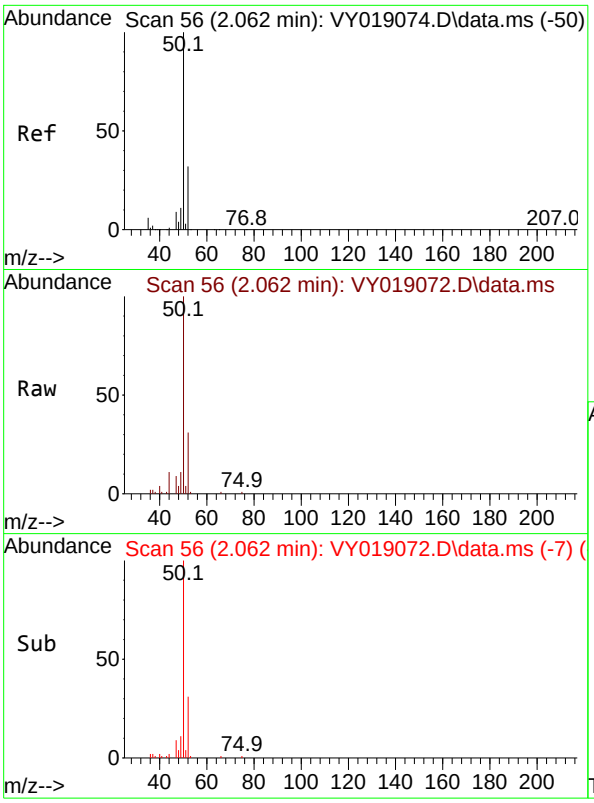


#2
Dichlorodifluoromethane
Concen: 9.738 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 85 Resp: 9047

Ion	Ratio	Lower	Upper
85	100		
87	36.4	16.0	48.0

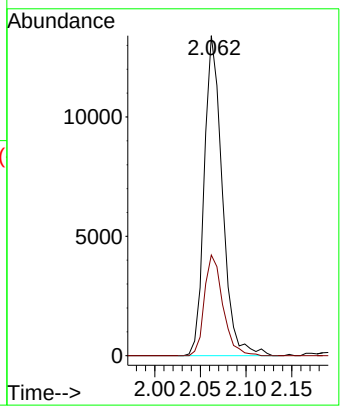




#3
Chloromethane
Concen: 10.974 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 50 Resp: 1837

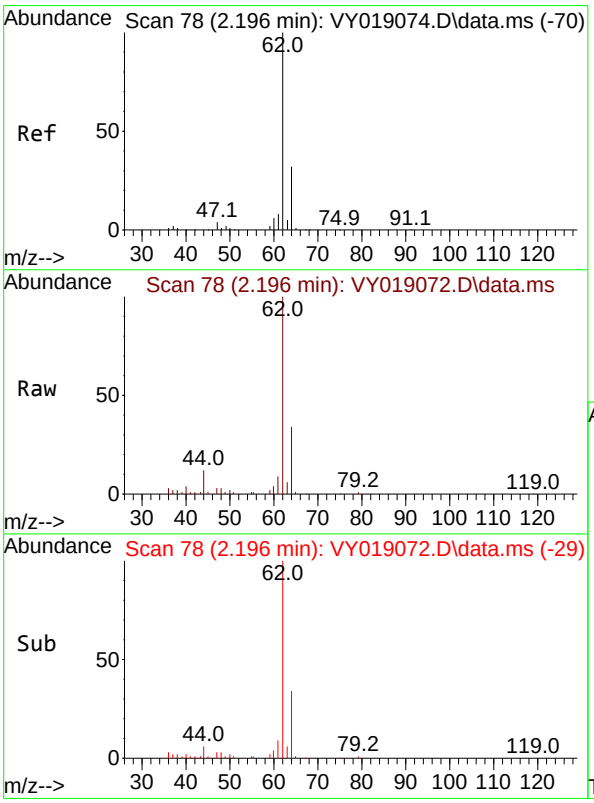
Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

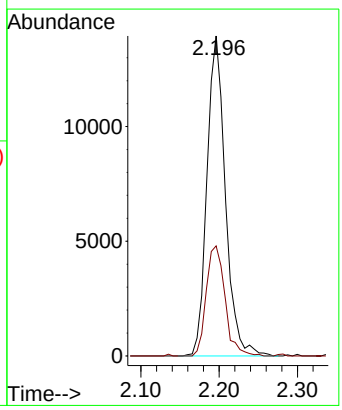
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

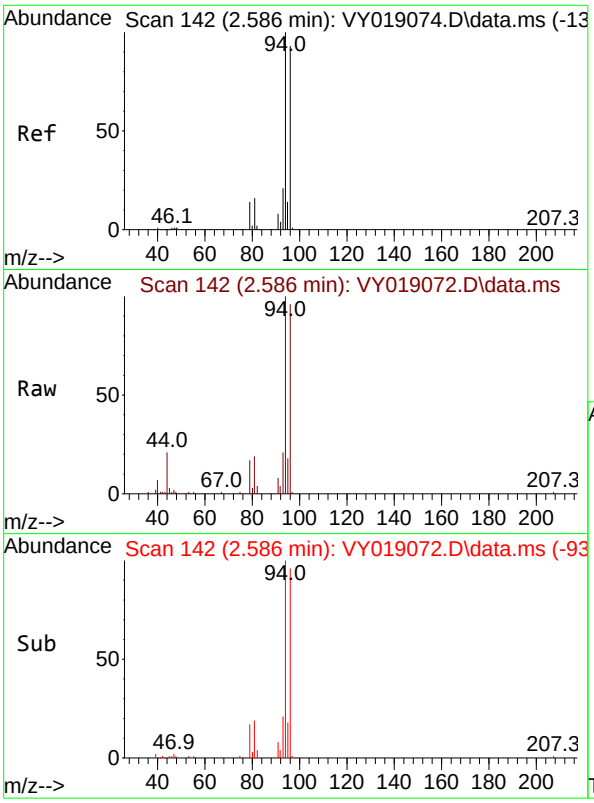


#4
Vinyl Chloride
Concen: 10.994 ug/l
RT: 2.196 min Scan# 78
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 62 Resp: 22741

Ion	Ratio	Lower	Upper
62	100		
64	34.4	26.1	39.1





#5
Bromomethane
Concen: 7.944 ug/l
RT: 2.586 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

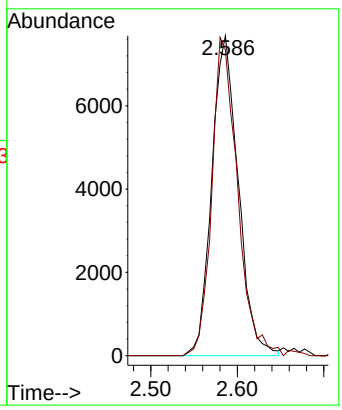
Tgt Ion: 94 Resp: 1631

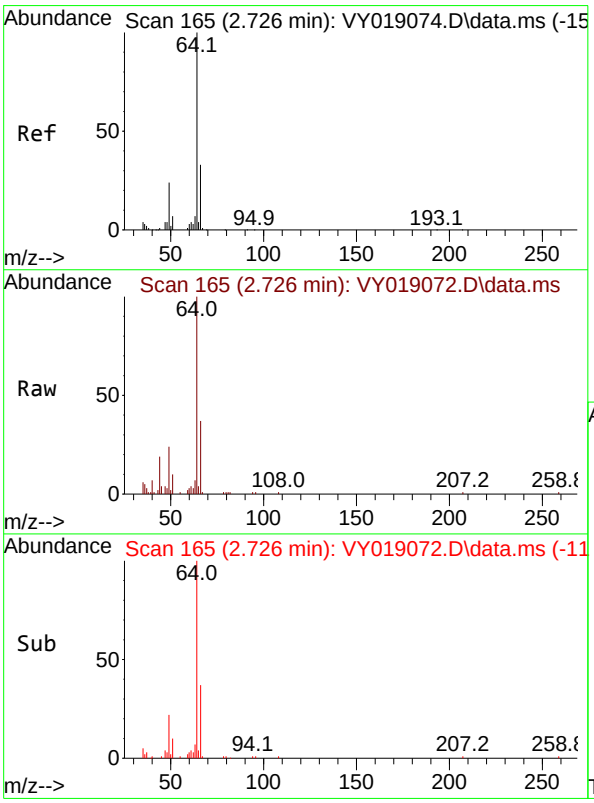
Ion	Ratio	Lower	Upper
94	100		
96	95.6	74.1	111.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

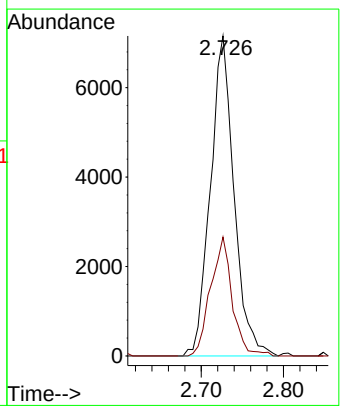


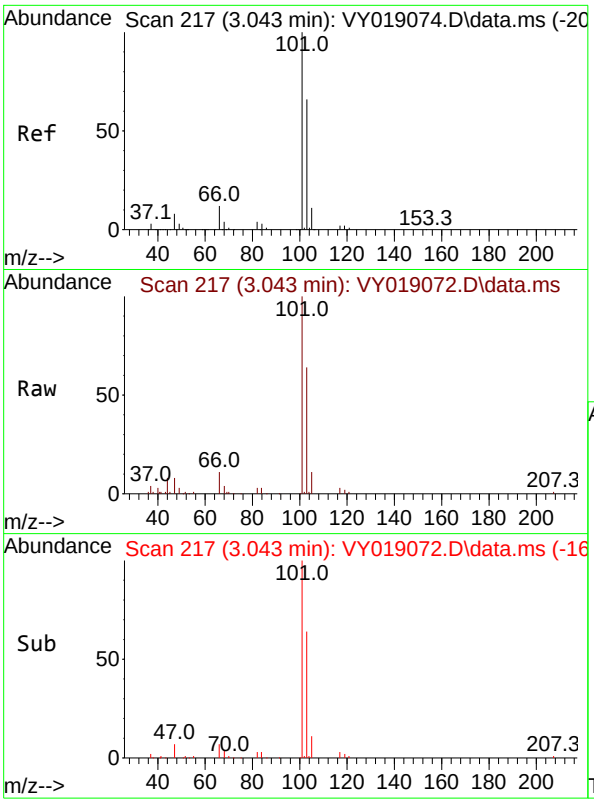


#6
Chloroethane
Concen: 9.937 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 64 Resp: 14305

Ion	Ratio	Lower	Upper
64	100		
66	37.2	26.1	39.1

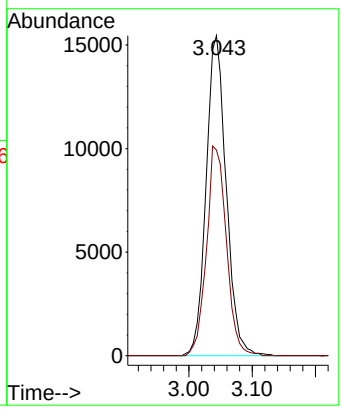




#7
Trichlorofluoromethane
Concen: 10.881 ug/l
RT: 3.043 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:101 Resp: 3402

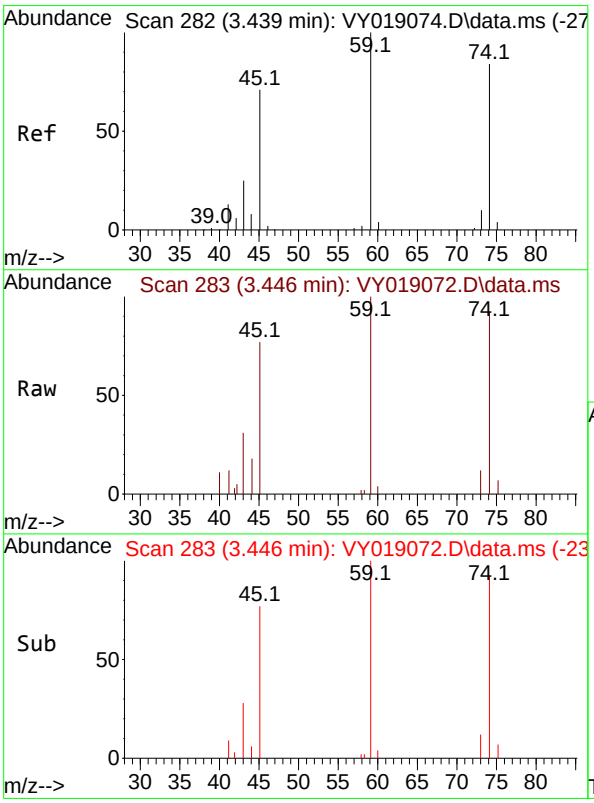
Ion	Ratio	Lower	Upper
101	100		
103	64.3	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

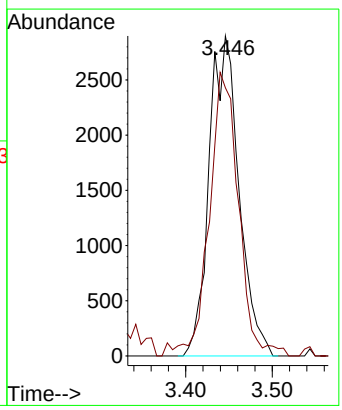
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

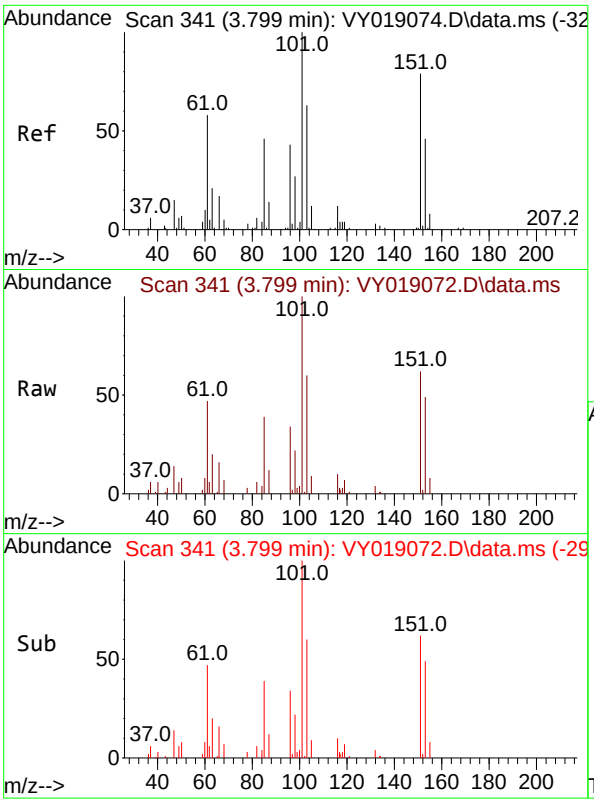


#8
Diethyl Ether
Concen: 10.297 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 74 Resp: 6951

Ion	Ratio	Lower	Upper
74	100		
45	86.8	41.3	124.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 11.064 ug/l
RT: 3.799 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

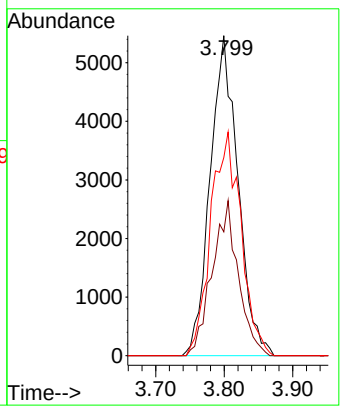
Tgt Ion:101 Resp: 1538

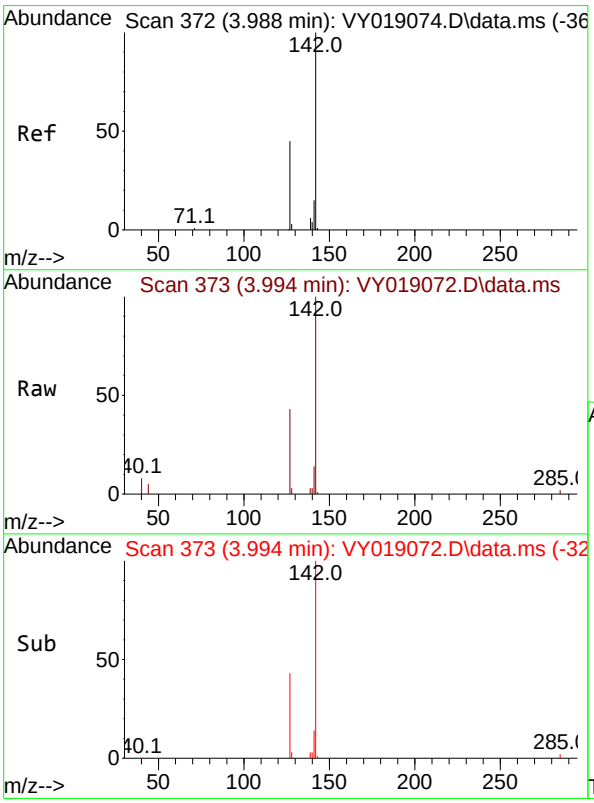
Ion	Ratio	Lower	Upper
101	100		
85	45.5	34.5	51.7
151	76.1	61.7	92.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

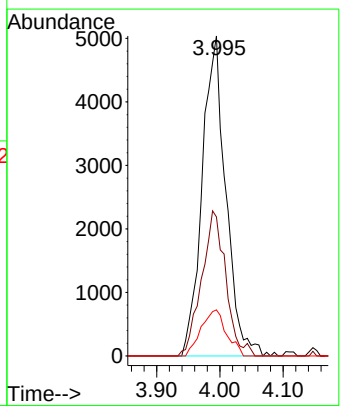


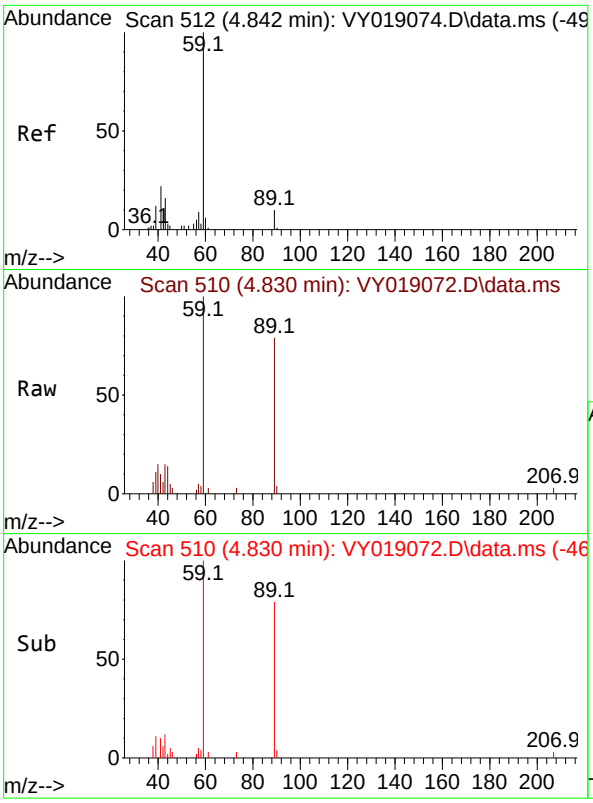


#10
Methyl Iodide
Concen: 9.633 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:142 Resp: 13127

Ion	Ratio	Lower	Upper
142	100		
127	46.1	32.8	49.2
141	15.3	11.4	17.2

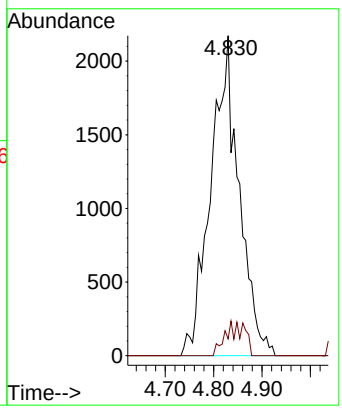




#11
Tert butyl alcohol
Concen: 48.219 ug/l
RT: 4.830 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 59 Resp: 883

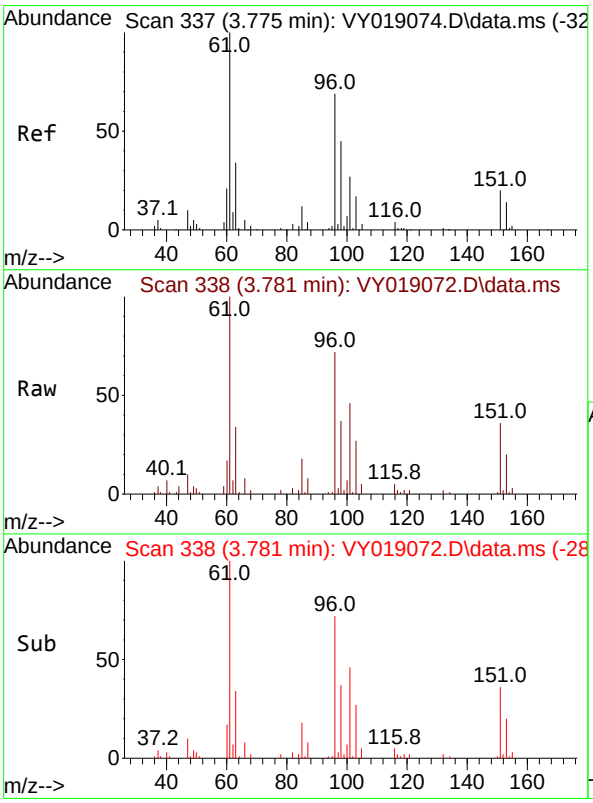
Ion	Ratio	Lower	Upper
59	100		
57	3.6	3.0	4.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

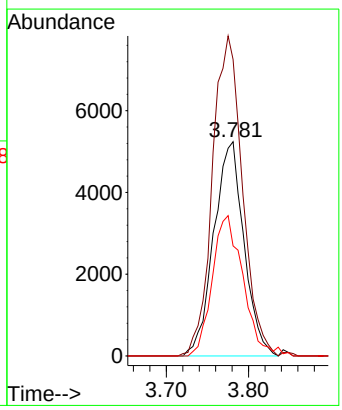
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

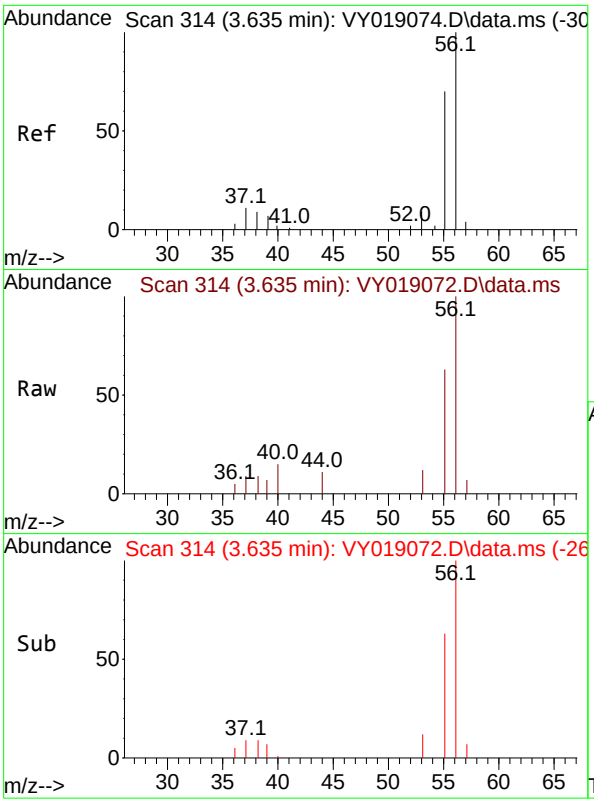


#12
1,1-Dichloroethene
Concen: 10.600 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 96 Resp: 13389

Ion	Ratio	Lower	Upper
96	100		
61	138.4	114.6	171.8
98	51.4	50.8	76.2

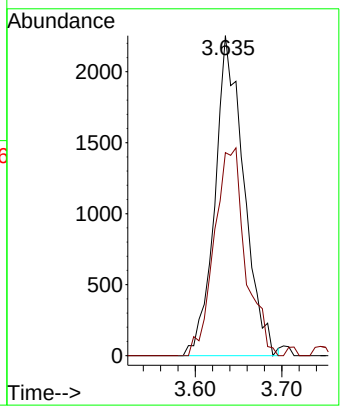




#13
Acrolein
Concen: 38.150 ug/l
RT: 3.635 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 56 Resp: 522

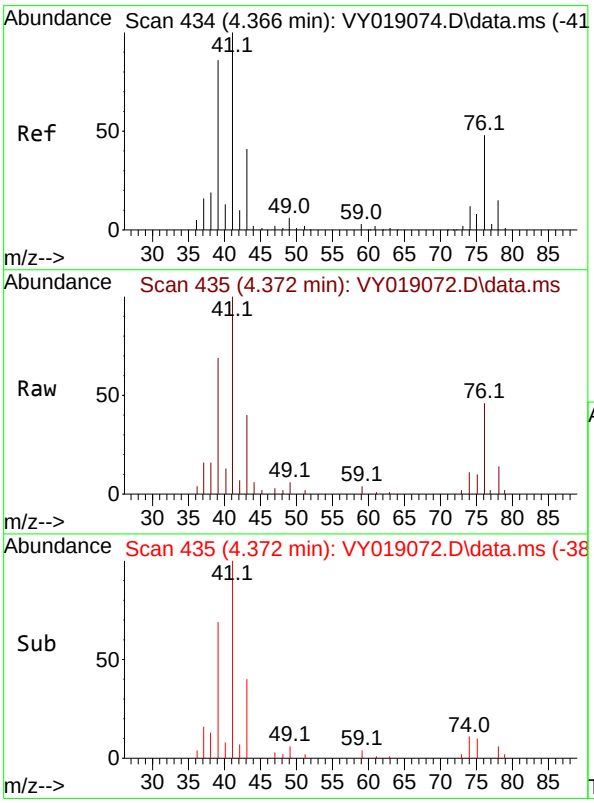
Ion	Ratio	Lower	Upper
56	100		
55	70.0	55.7	83.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

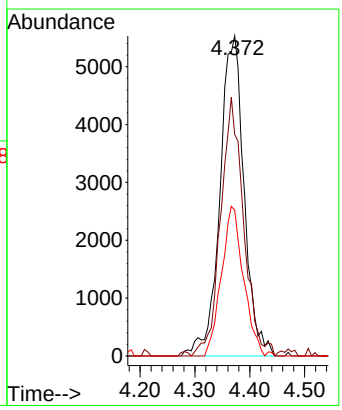
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

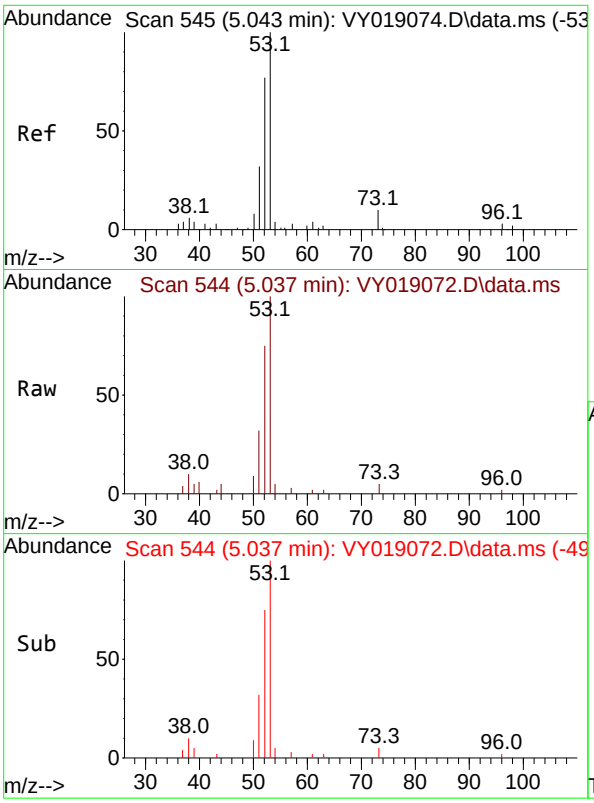


#14
Allyl chloride
Concen: 10.095 ug/l
RT: 4.372 min Scan# 435
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 41 Resp: 16954

Ion	Ratio	Lower	Upper
41	100		
39	76.9	58.3	87.5
76	42.6	39.0	58.6

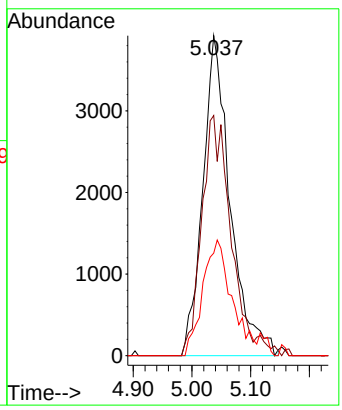




#15
Acrylonitrile
Concen: 46.075 ug/l
RT: 5.037 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 53 Resp: 1272

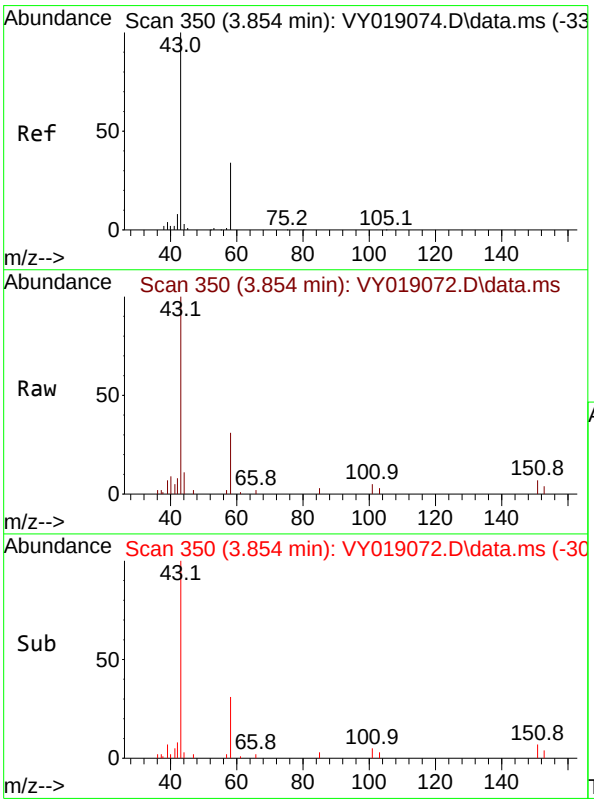
Ion	Ratio	Lower	Upper
53	100		
52	77.5	64.7	97.1
51	38.4	28.4	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

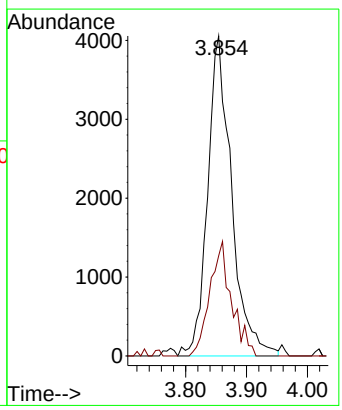
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

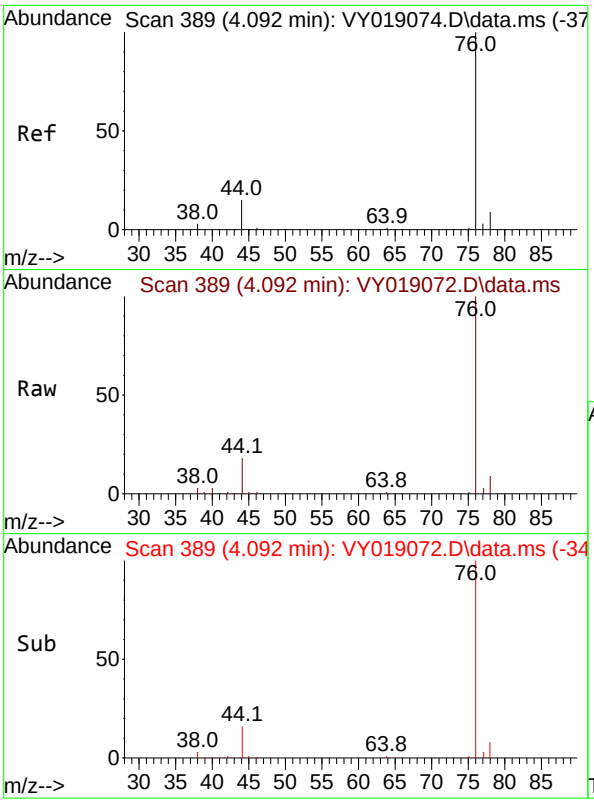


#16
Acetone
Concen: 46.902 ug/l
RT: 3.854 min Scan# 350
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 43 Resp: 11041

Ion	Ratio	Lower	Upper
43	100		
58	31.3	31.7	47.5#

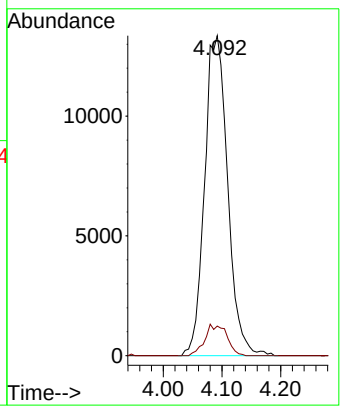




#17
Carbon Disulfide
Concen: 10.229 ug/l
RT: 4.092 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 76 Resp: 3644

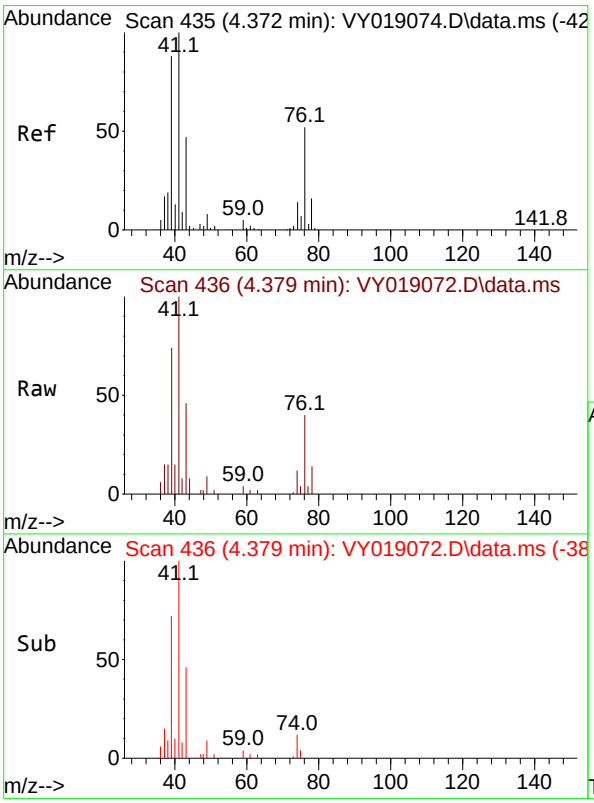
Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

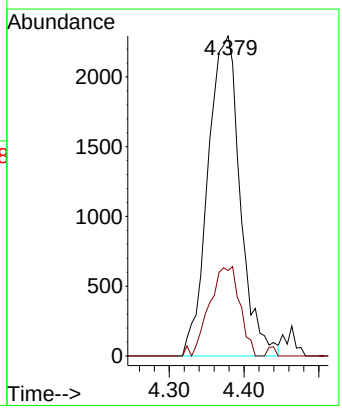
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

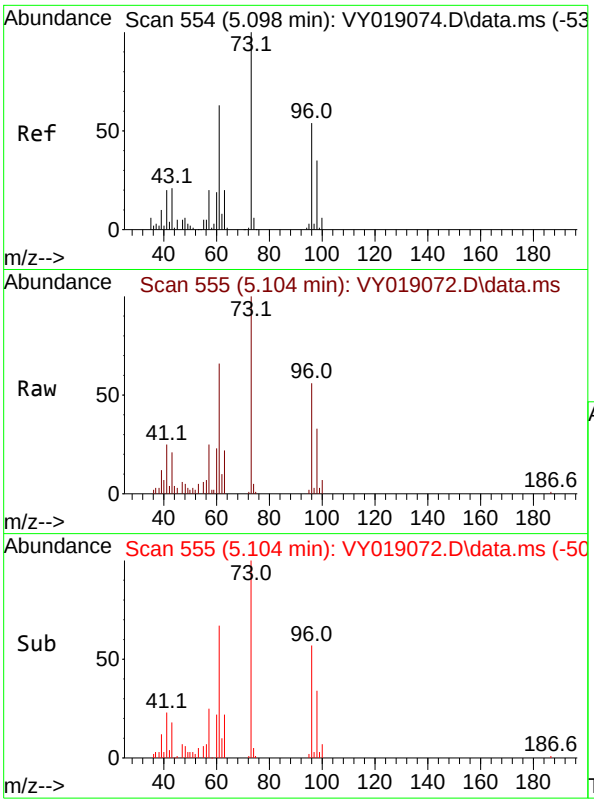


#18
Methyl Acetate
Concen: 9.505 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 43 Resp: 6867

Ion	Ratio	Lower	Upper
43	100		
74	26.3	23.3	34.9

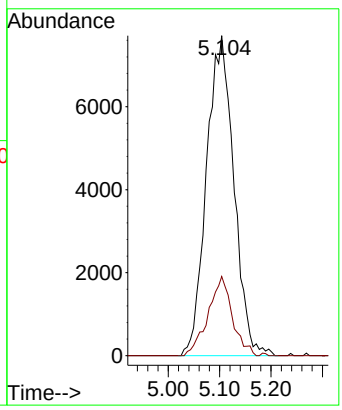




#19
Methyl tert-butyl Ether
Concen: 9.306 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 73 Resp: 2849

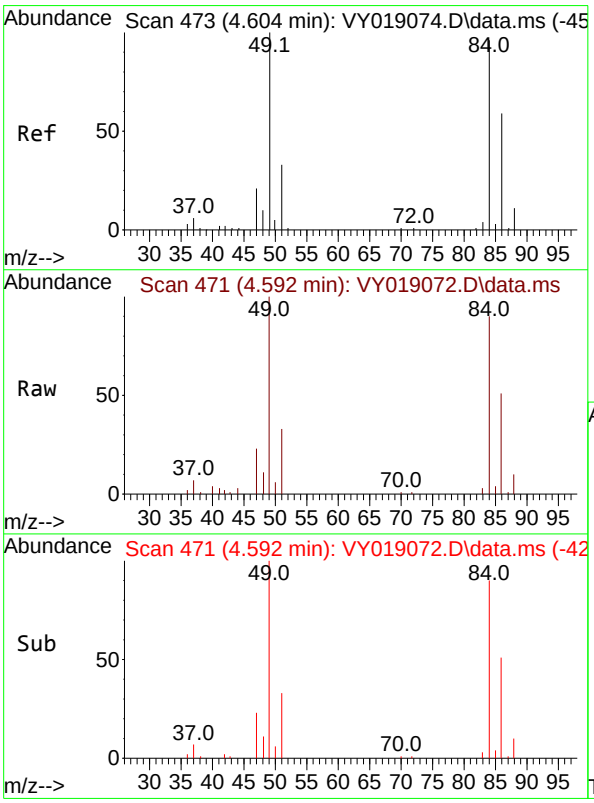
Ion	Ratio	Lower	Upper
73	100		
57	24.8	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

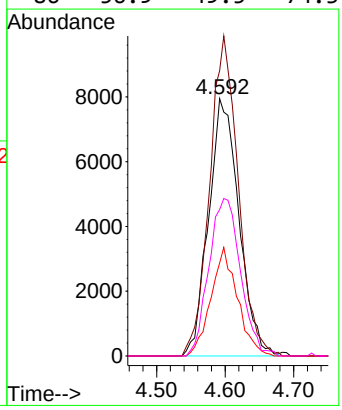
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

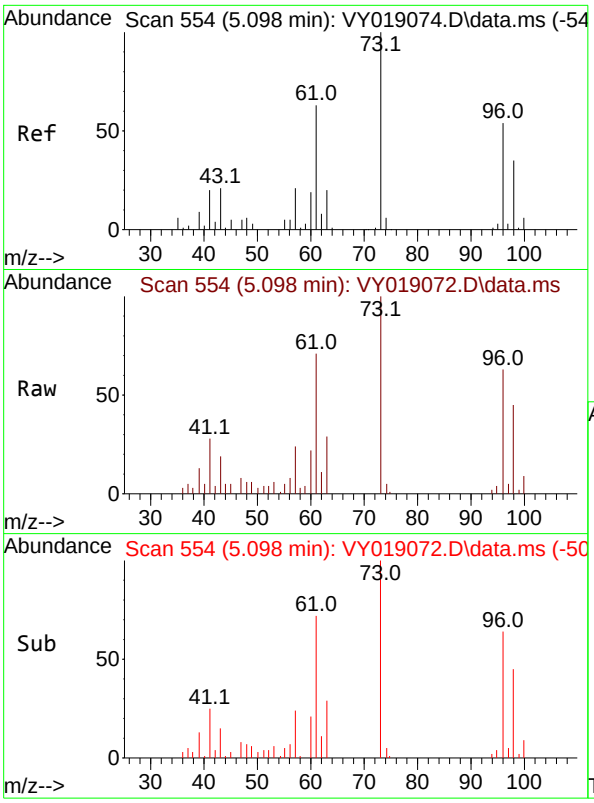


#20
Methylene Chloride
Concen: 8.155 ug/l
RT: 4.592 min Scan# 471
Delta R.T. -0.012 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 84 Resp: 24435

Ion	Ratio	Lower	Upper
84	100		
49	110.9	84.4	126.6
51	36.1	26.0	39.0
86	56.9	49.5	74.3

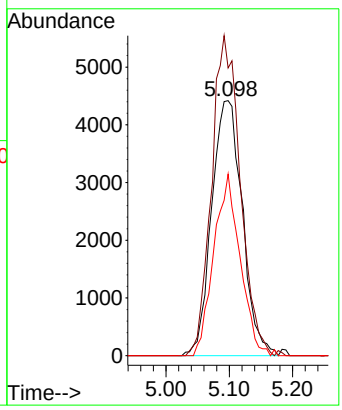




#21
trans-1,2-Dichloroethene
Concen: 10.530 ug/l
RT: 5.098 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 96 Resp: 1486

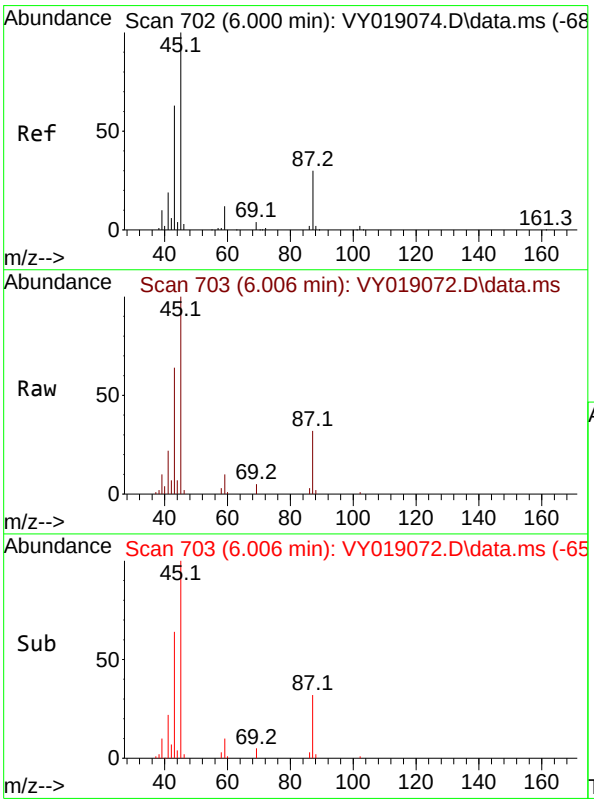
Ion	Ratio	Lower	Upper
96	100		
61	112.8	97.5	146.3
98	71.2	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

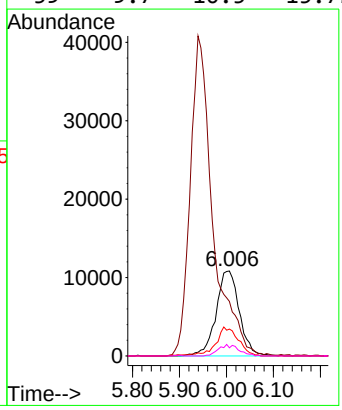
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

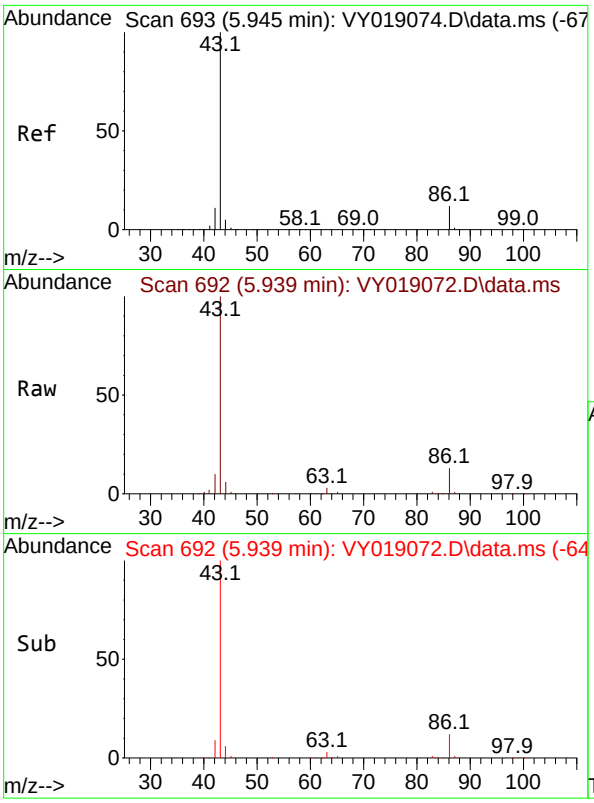


#22
Diisopropyl ether
Concen: 9.718 ug/l
RT: 6.006 min Scan# 703
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 45 Resp: 37360

Ion	Ratio	Lower	Upper
45	100		
43	63.1	42.2	63.2
87	31.6	25.0	37.6
59	9.7	10.5	15.7#





#23
Vinyl Acetate
Concen: 44.968 ug/l
RT: 5.939 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

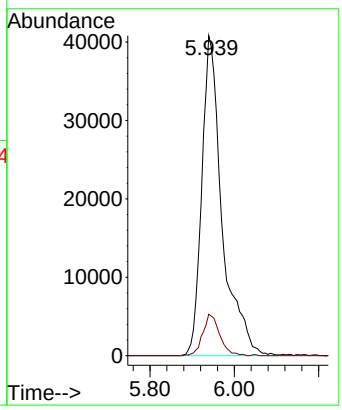
Tgt Ion: 43 Resp: 13686

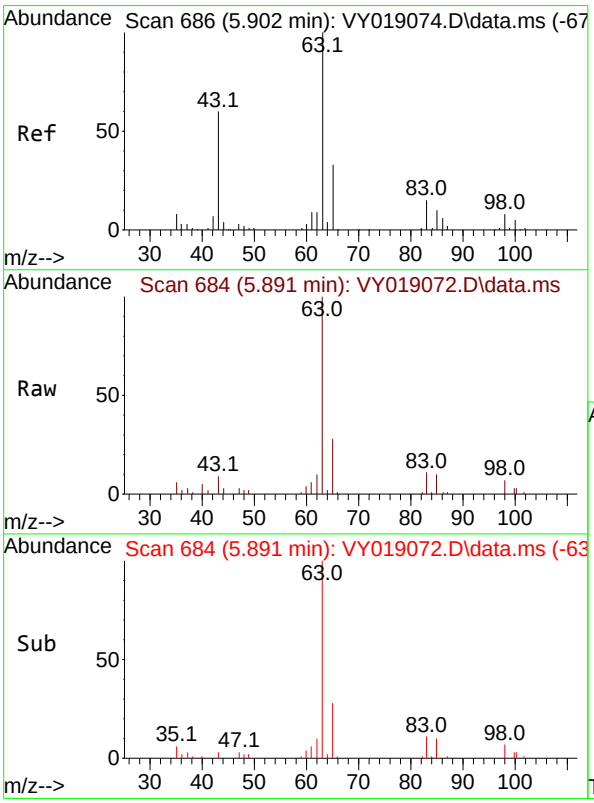
Ion	Ratio	Lower	Upper
43	100		
86	12.9	10.6	16.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

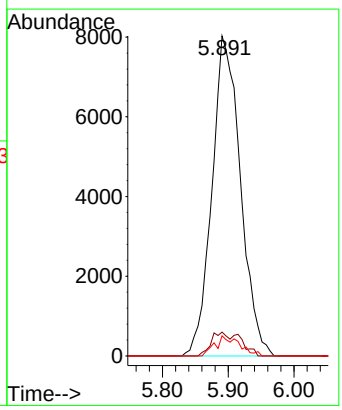


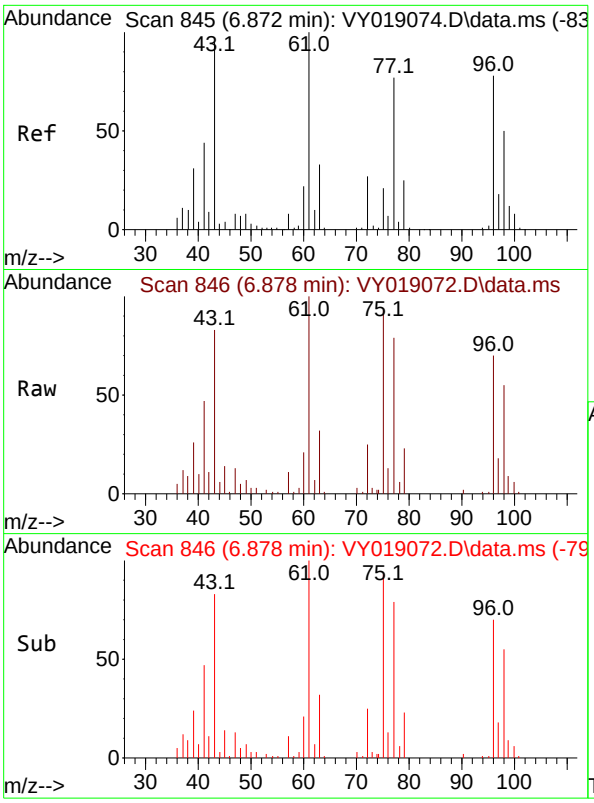


#24
1,1-Dichloroethane
Concen: 10.288 ug/l
RT: 5.891 min Scan# 684
Delta R.T. -0.012 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 63 Resp: 24189

Ion	Ratio	Lower	Upper
63	100		
98	7.4	4.0	12.2
100	6.3	2.6	8.0

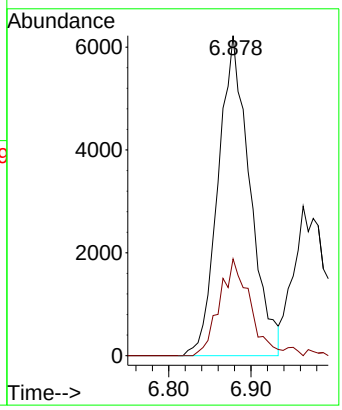




#25
2-Butanone
Concen: 43.974 ug/l
RT: 6.878 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 43 Resp: 1667

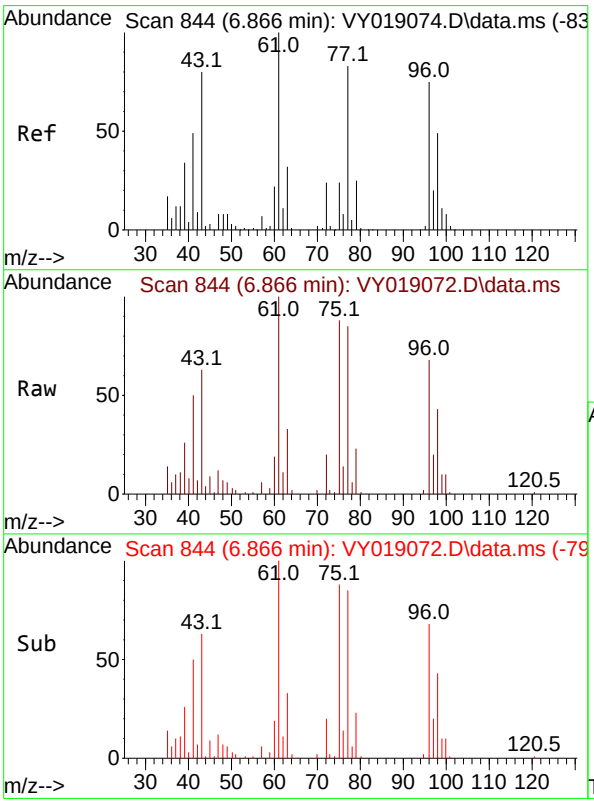
Ion	Ratio	Lower	Upper
43	100		
72	30.2	27.3	40.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

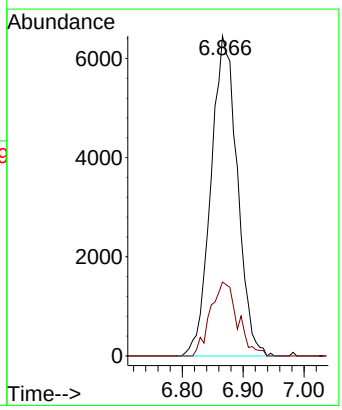
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

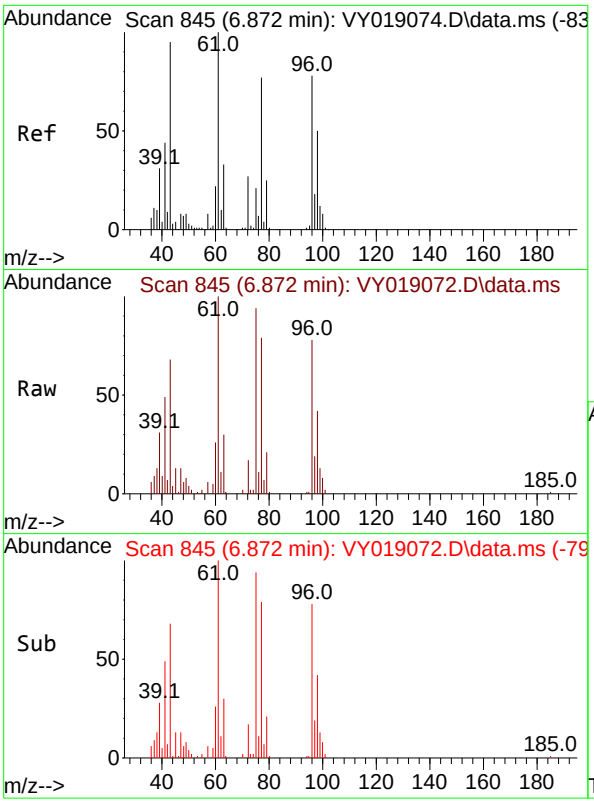


#26
2,2-Dichloropropane
Concen: 10.202 ug/l
RT: 6.866 min Scan# 844
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 77 Resp: 19423

Ion	Ratio	Lower	Upper
77	100		
97	23.9	12.0	36.1

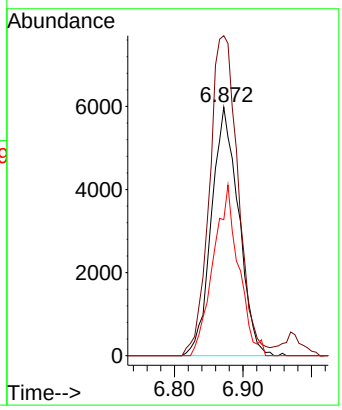




#27
cis-1,2-Dichloroethene
Concen: 9.917 ug/l
RT: 6.872 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 96 Resp: 1646

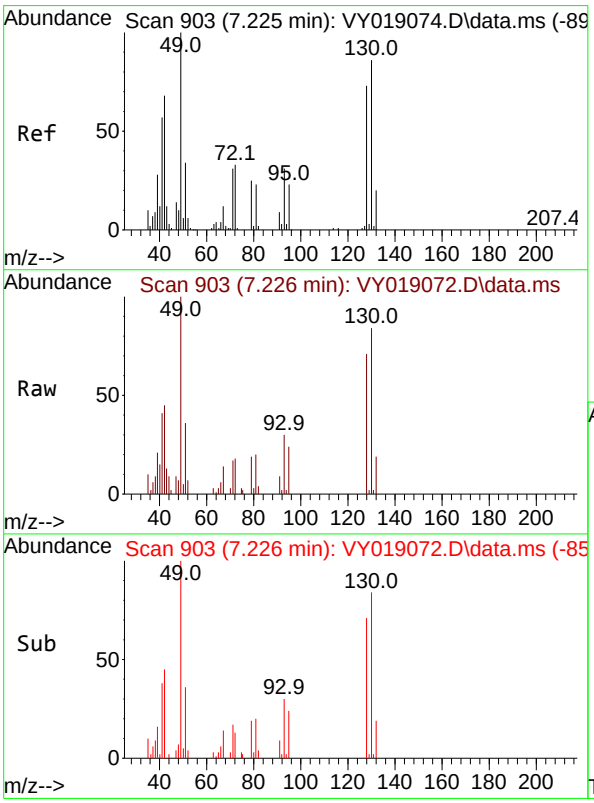
Ion	Ratio	Lower	Upper
96	100		
61	135.7	0.0	256.2
98	64.0	0.0	130.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

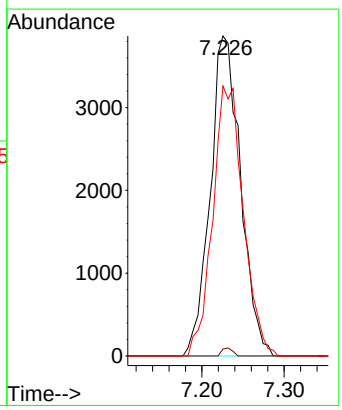
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

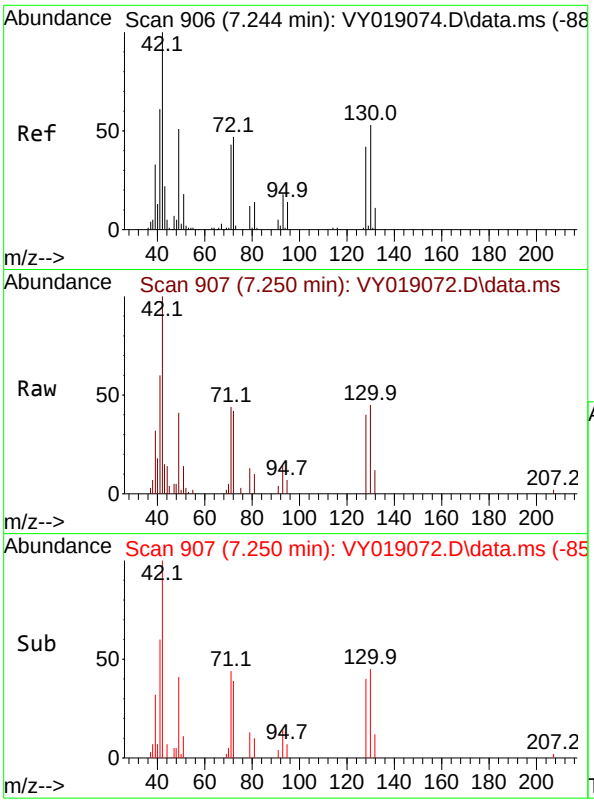


#28
Bromochloromethane
Concen: 10.064 ug/l
RT: 7.226 min Scan# 903
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 49 Resp: 9925

Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	4.6
130	84.7	72.7	109.1

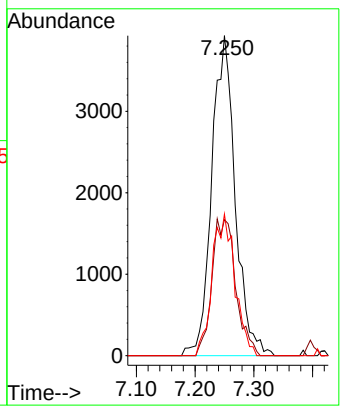




#29
Tetrahydrofuran
Concen: 44.731 ug/l
RT: 7.250 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 42 Resp: 1090

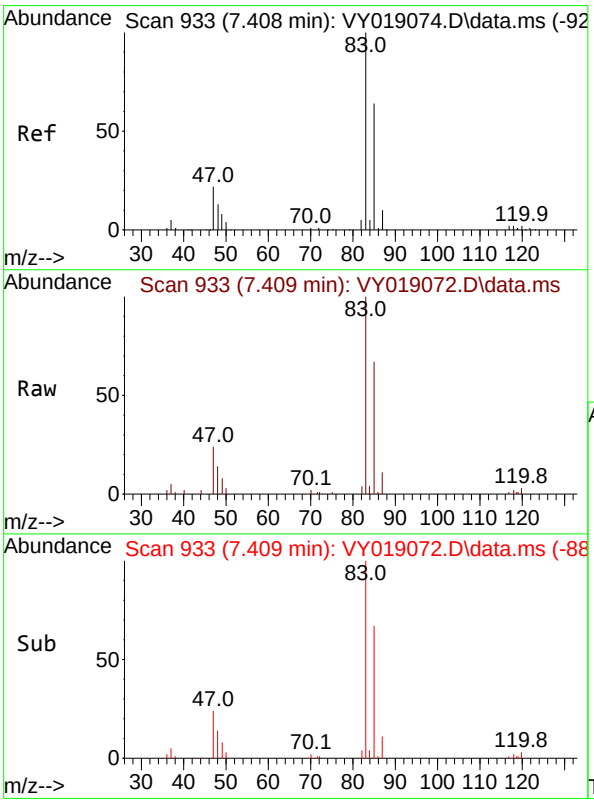
Ion	Ratio	Lower	Upper
42	100		
72	43.5	43.0	64.4
71	42.8	40.8	61.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

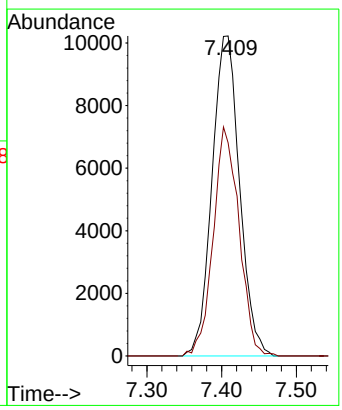
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

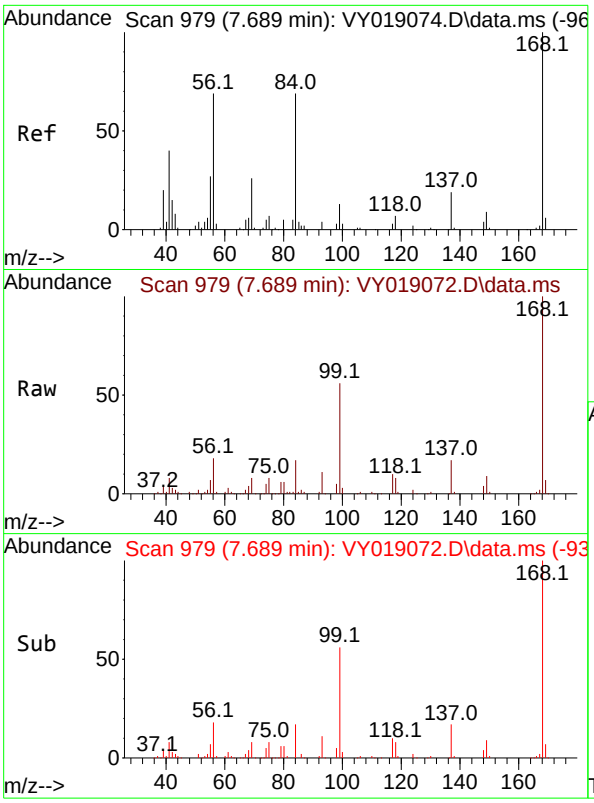


#30
Chloroform
Concen: 9.996 ug/l
RT: 7.409 min Scan# 933
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 83 Resp: 26188

Ion	Ratio	Lower	Upper
83	100		
85	66.6	52.2	78.4

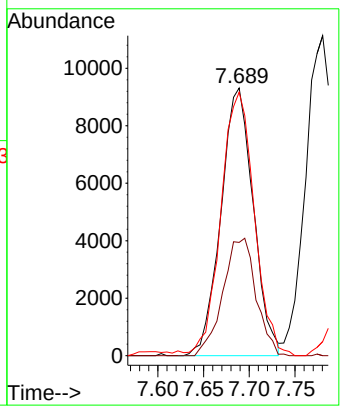




#31
Cyclohexane
Concen: 9.160 ug/l
RT: 7.689 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 56 Resp: 2298

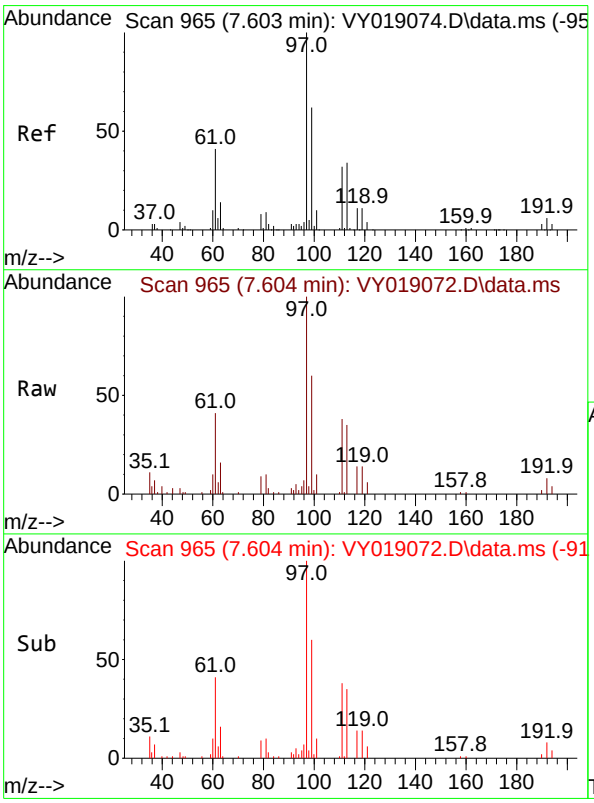
Ion	Ratio	Lower	Upper
56	100		
69	42.3	28.7	43.1
84	96.6	77.7	116.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

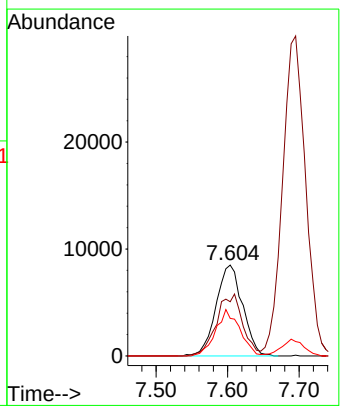
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

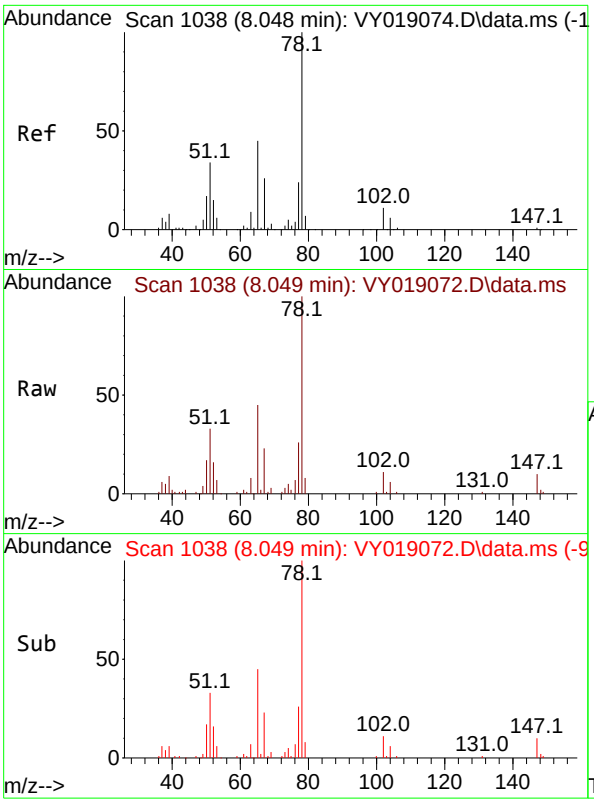


#32
1,1,1-Trichloroethane
Concen: 9.533 ug/l
RT: 7.604 min Scan# 965
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 97 Resp: 21949

Ion	Ratio	Lower	Upper
97	100		
99	67.4	50.3	75.5
61	46.3	32.6	48.8

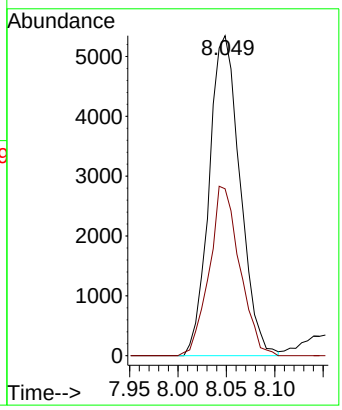




#33
1,2-Dichloroethane-d4
Concen: 9.373 ug/l
RT: 8.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 65 Resp: 1189

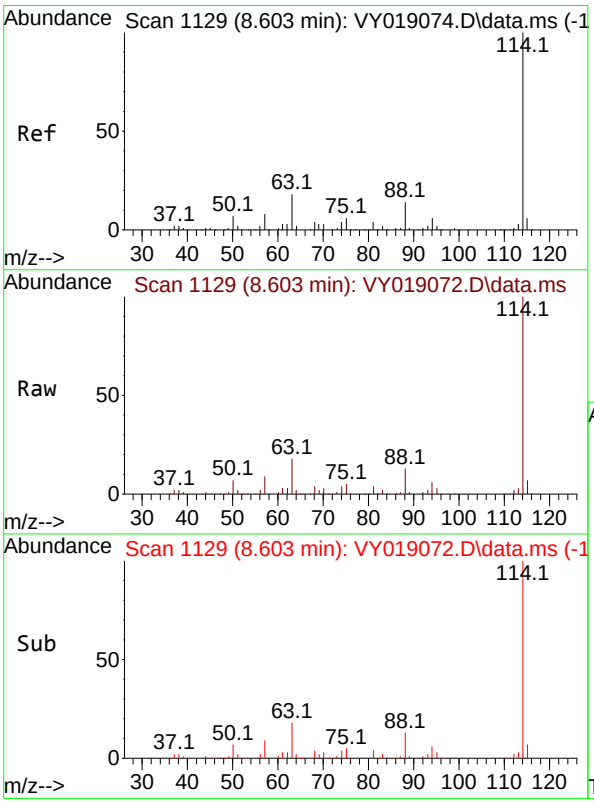
Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	109.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

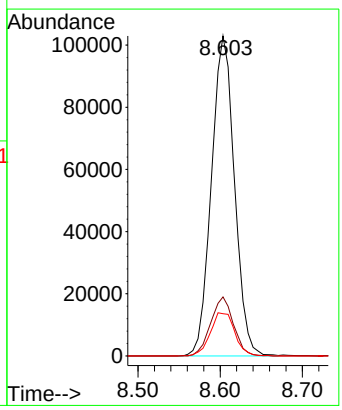
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

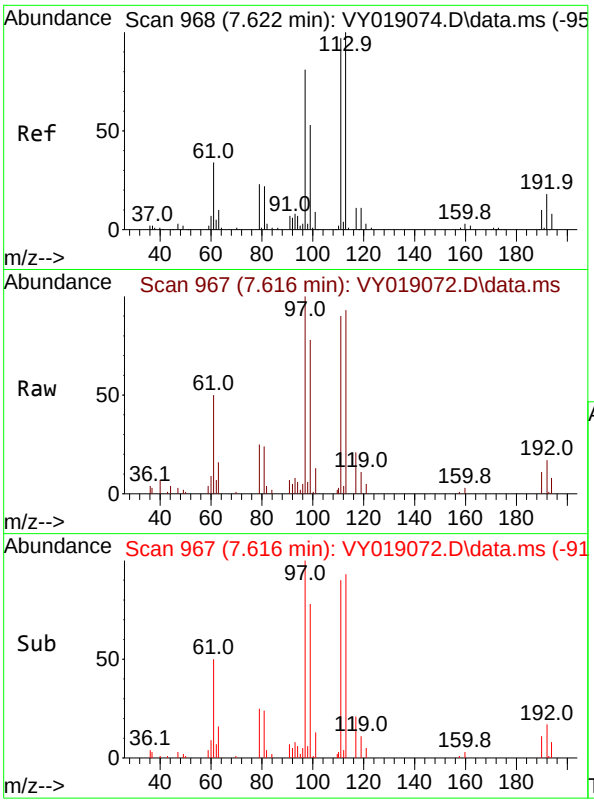


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.603 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:114 Resp: 200923

Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	35.0
88	13.2	0.0	27.2

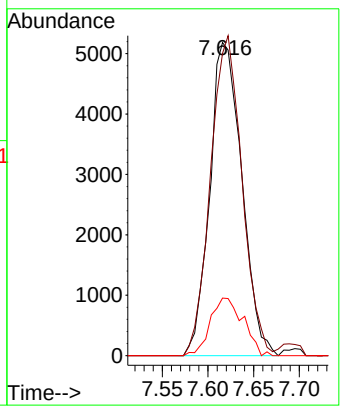




#35
Dibromofluoromethane
Concen: 9.639 ug/l
RT: 7.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:113 Resp: 1266

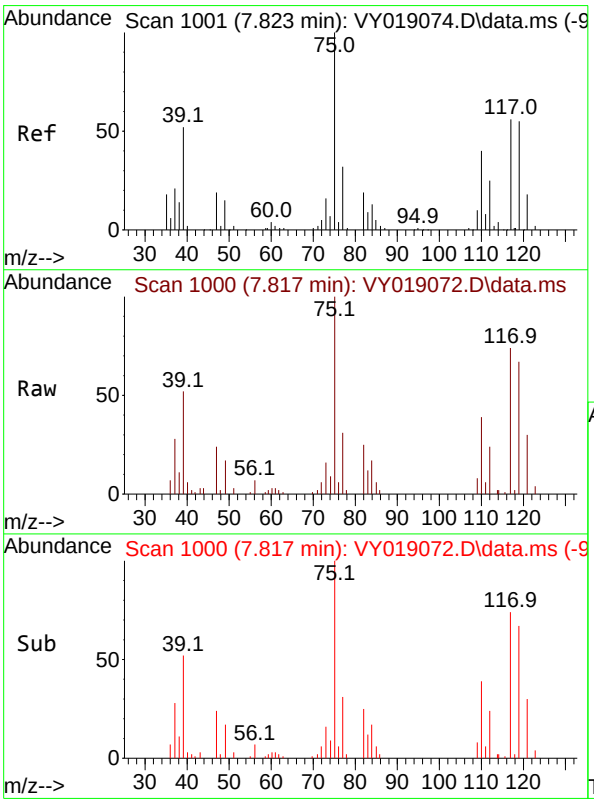
Ion	Ratio	Lower	Upper
113	100		
111	100.3	82.2	123.4
192	18.9	15.9	23.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

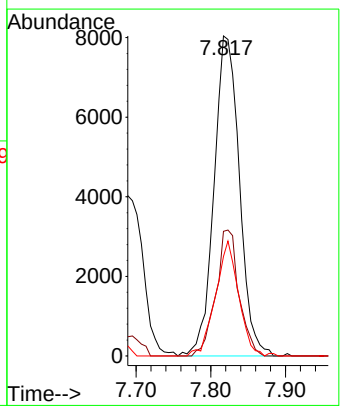
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

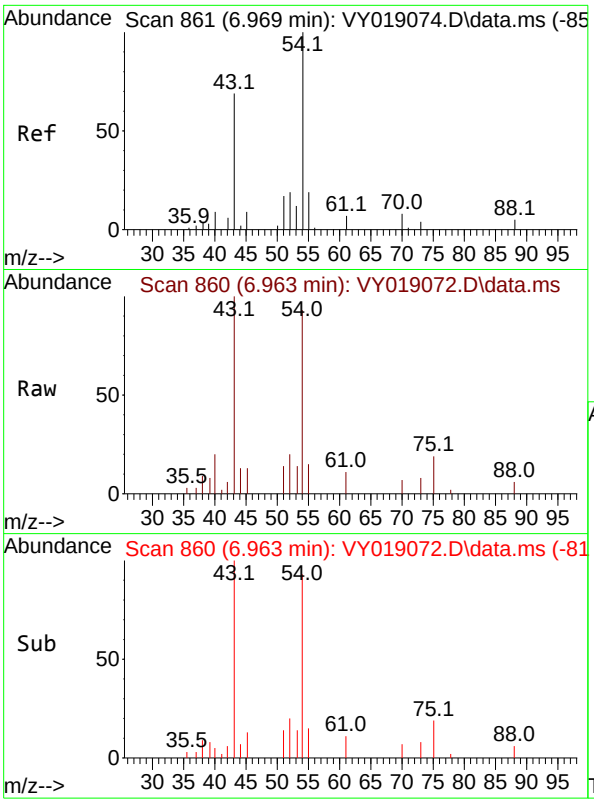


#36
1,1-Dichloropropene
Concen: 10.535 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 75 Resp: 19006

Ion	Ratio	Lower	Upper
75	100		
110	35.9	19.0	57.0
77	32.7	25.3	37.9

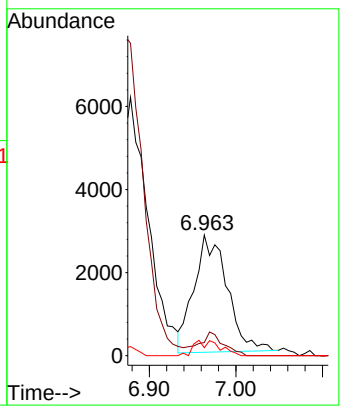




#37
Ethyl Acetate
Concen: 9.406 ug/l
RT: 6.963 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 43 Resp: 751

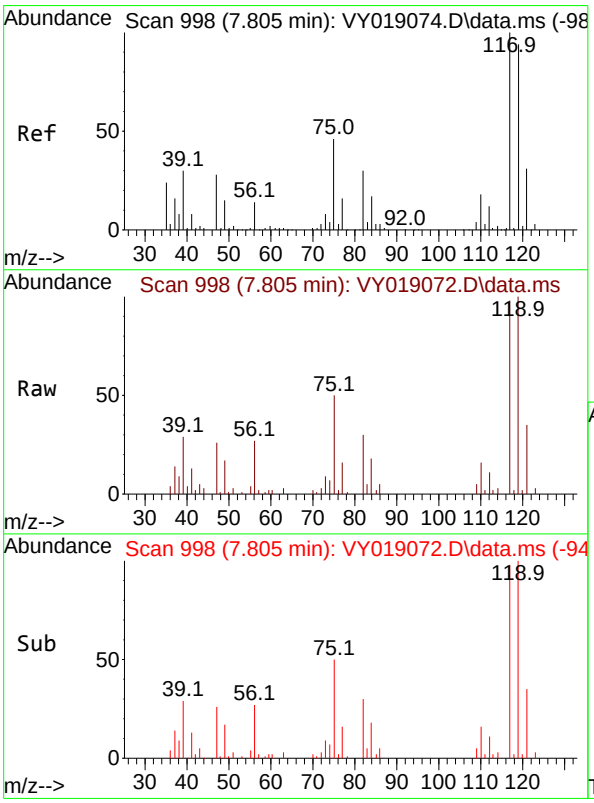
Ion	Ratio	Lower	Upper
43	100		
61	13.9	12.6	19.0
70	4.4	7.8	11.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

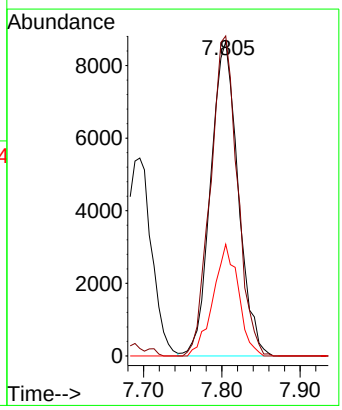
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

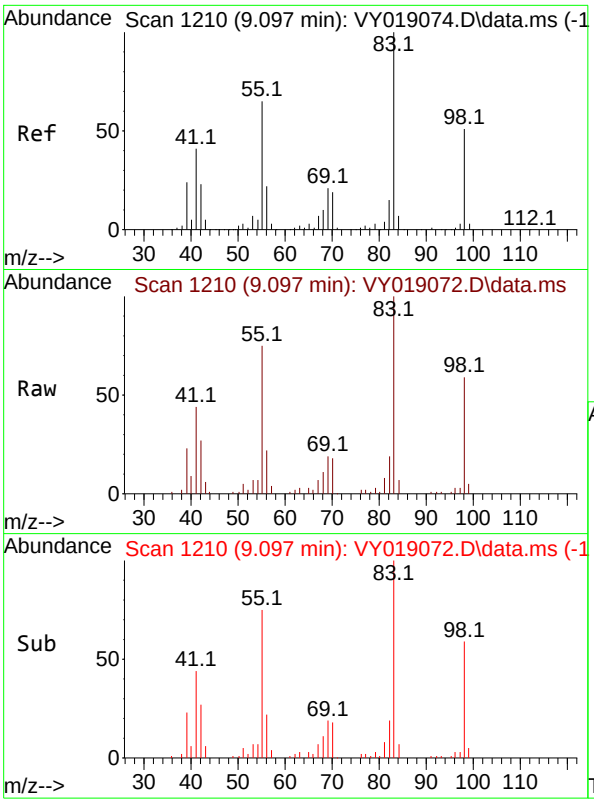


#38
Carbon Tetrachloride
Concen: 10.098 ug/l
RT: 7.805 min Scan# 998
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:117 Resp: 21112

Ion	Ratio	Lower	Upper
117	100		
119	101.8	75.8	113.6
121	35.5	24.0	36.0

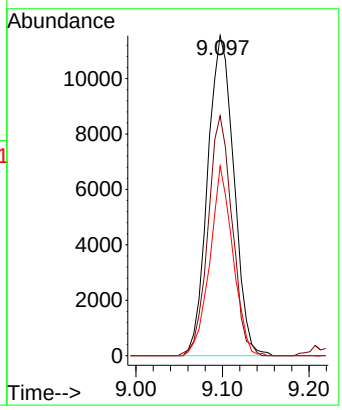




#39
Methylcyclohexane
Concen: 10.484 ug/l
RT: 9.097 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 83 Resp: 2427

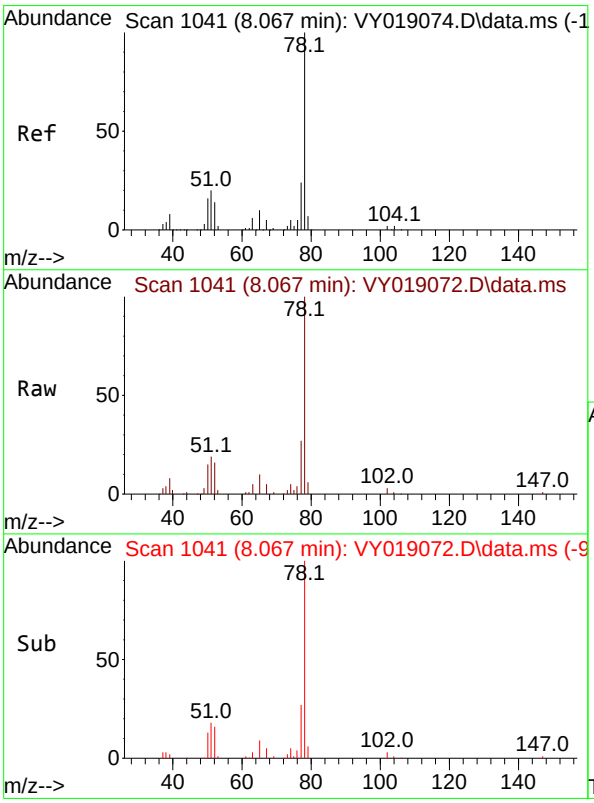
Ion	Ratio	Lower	Upper
83	100		
55	75.0	51.5	77.3
98	59.2	40.5	60.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

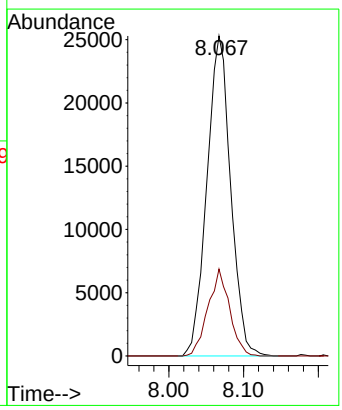
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

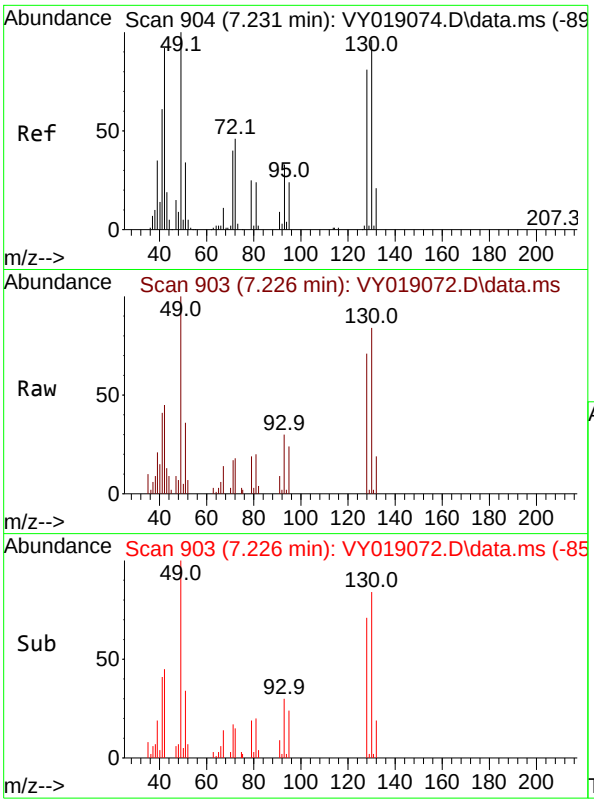


#40
Benzene
Concen: 10.111 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 78 Resp: 55940

Ion	Ratio	Lower	Upper
78	100		
77	27.2	19.5	29.3

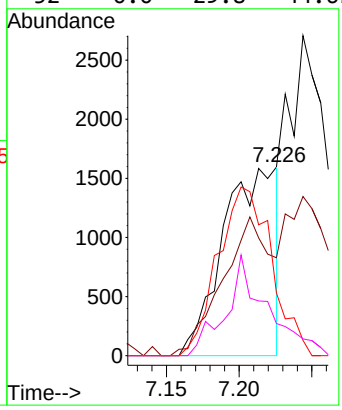




#41
Methacrylonitrile
Concen: 10.015 ug/l m
RT: 7.226 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 41 Resp: 413

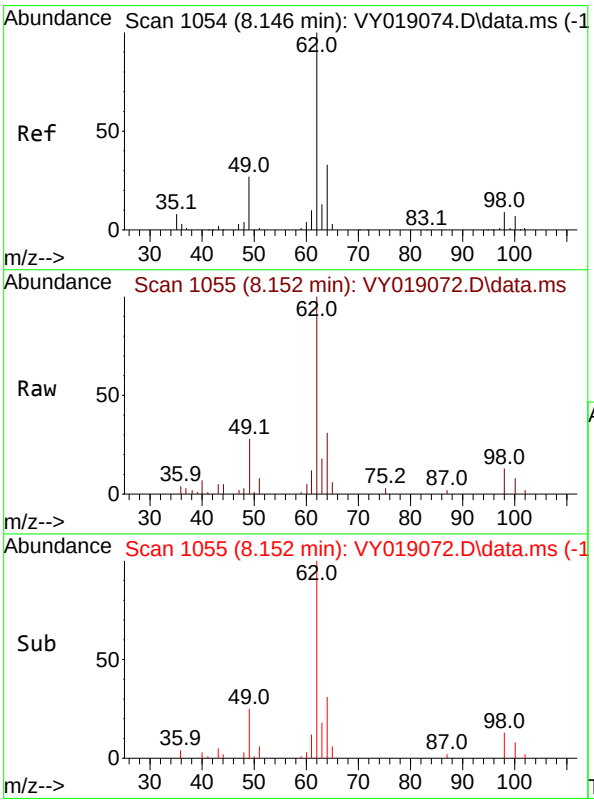
Ion	Ratio	Lower	Upper
41	100		
39	76.5	48.0	72.0#
67	0.0	75.1	112.7#
52	0.0	29.8	44.6#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

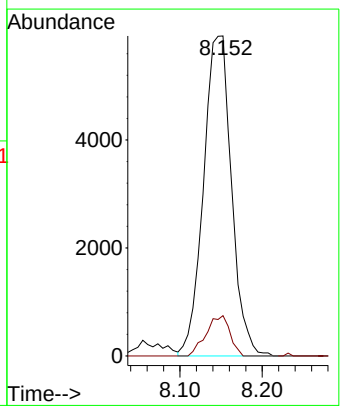
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

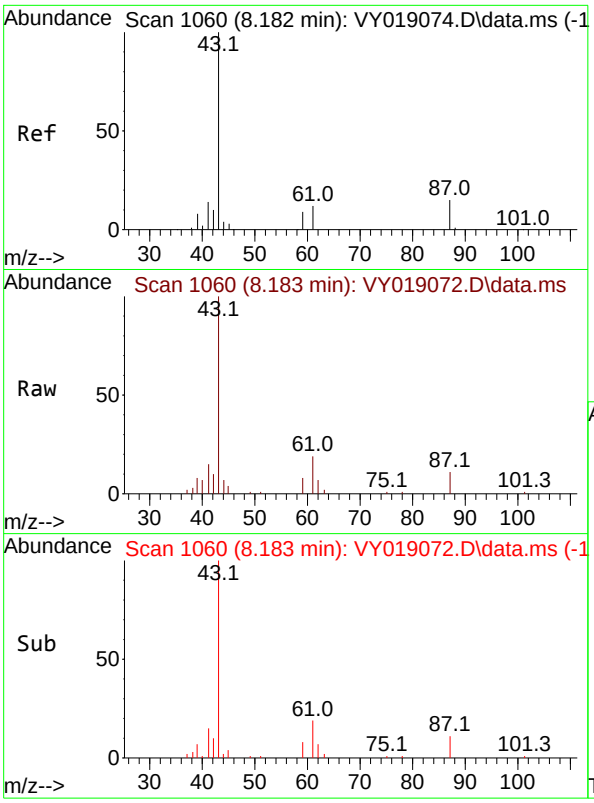


#42
1,2-Dichloroethane
Concen: 9.396 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 62 Resp: 14039

Ion	Ratio	Lower	Upper
62	100		
98	10.7	0.0	22.0

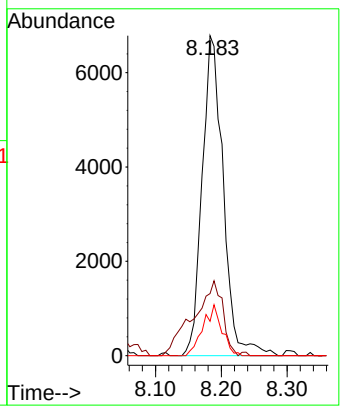




#43
Isopropyl Acetate
Concen: 9.355 ug/l
RT: 8.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 43 Resp: 1512

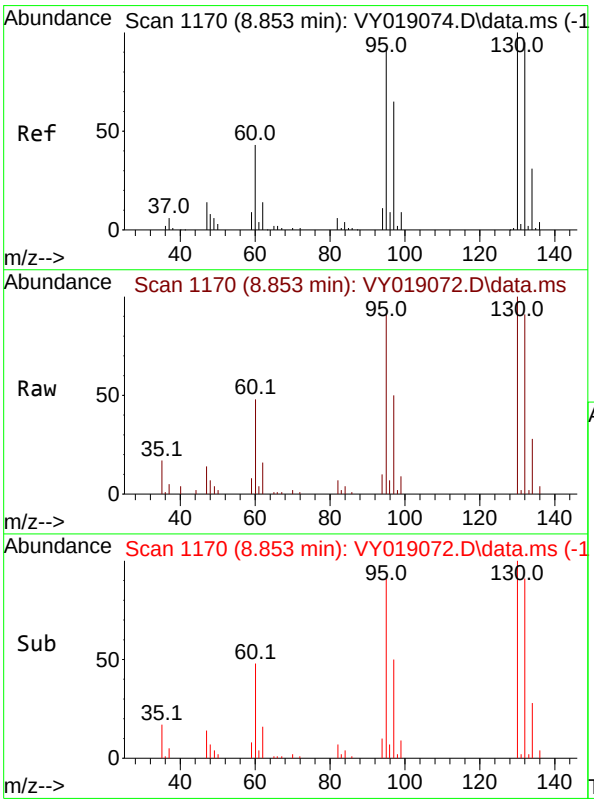
Ion	Ratio	Lower	Upper
43	100		
61	32.5	27.9	41.9
87	14.2	13.1	19.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

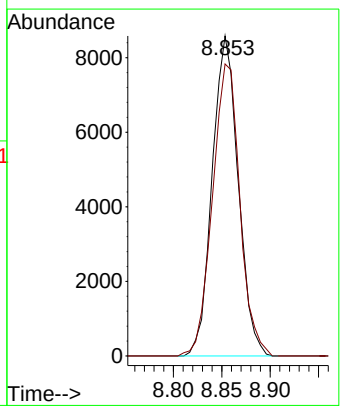
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

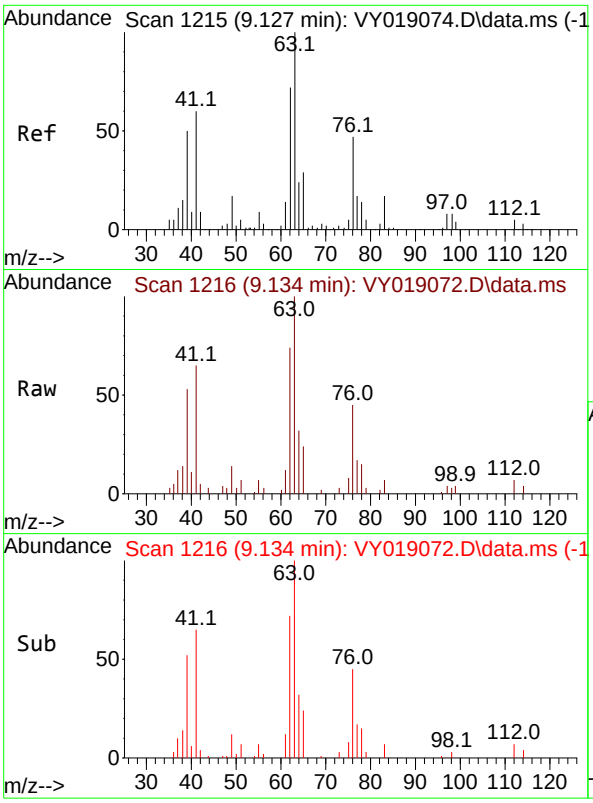


#44
Trichloroethene
Concen: 10.396 ug/l
RT: 8.853 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:130 Resp: 16049

Ion	Ratio	Lower	Upper
130	100		
95	91.3	0.0	188.0

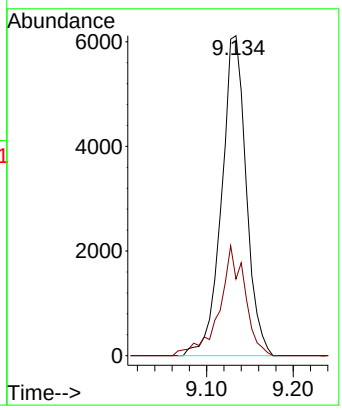




#45
1,2-Dichloropropane
Concen: 9.782 ug/l
RT: 9.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 63 Resp: 1205

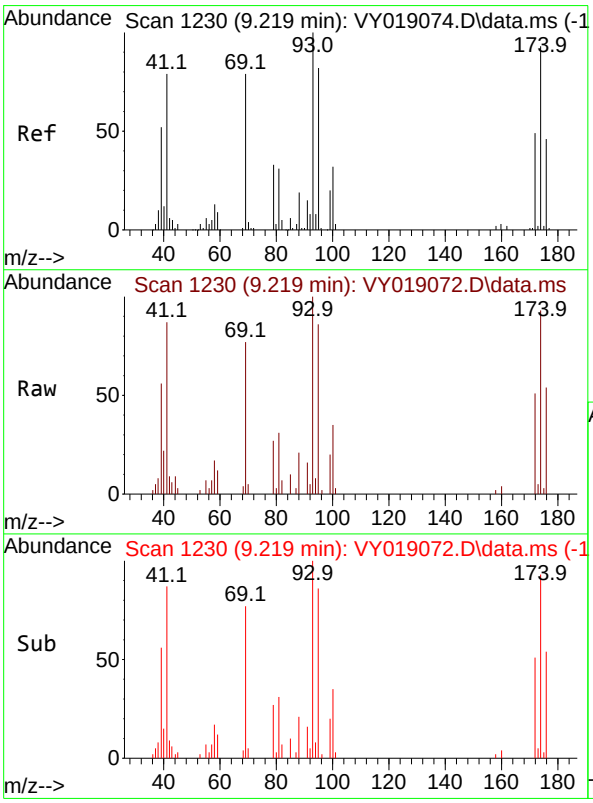
Ion	Ratio	Lower	Upper
63	100		
65	24.0	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

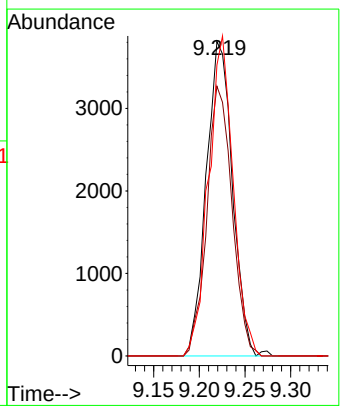
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

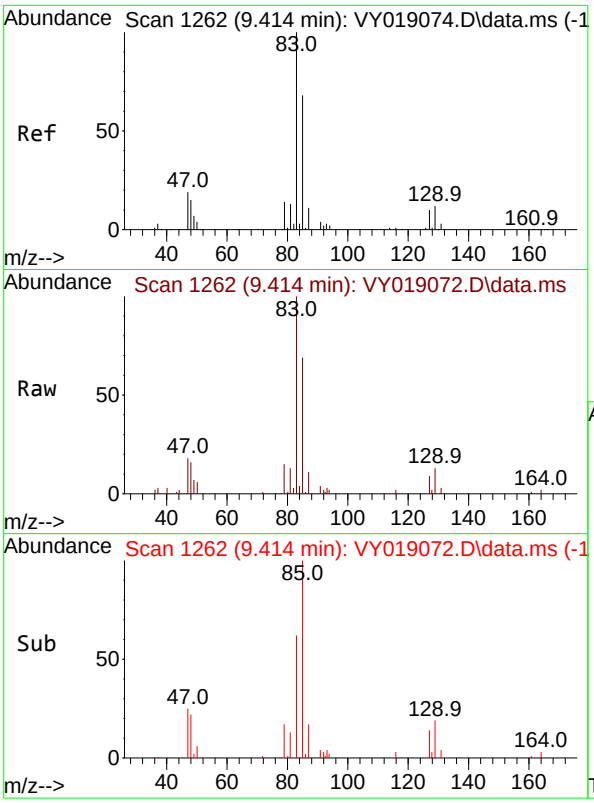


#46
Dibromomethane
Concen: 9.495 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 93 Resp: 7592

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.2	99.4
174	95.6	80.9	121.3





#47
Bromodichloromethane
Concen: 9.749 ug/l
RT: 9.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

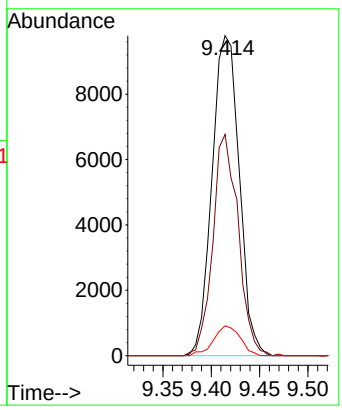
Tgt Ion: 83 Resp: 1912

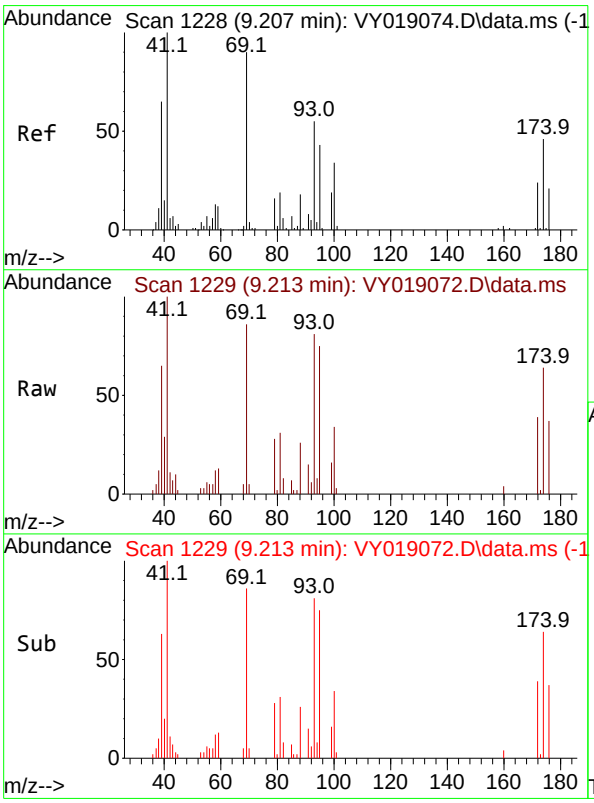
Ion	Ratio	Lower	Upper
83	100		
85	69.1	50.1	75.1
127	9.4	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

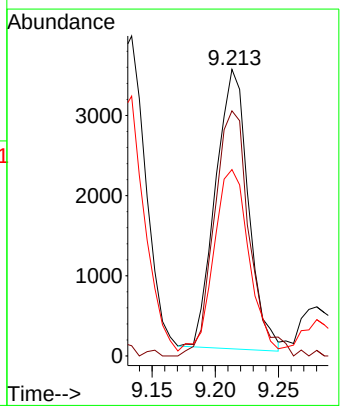


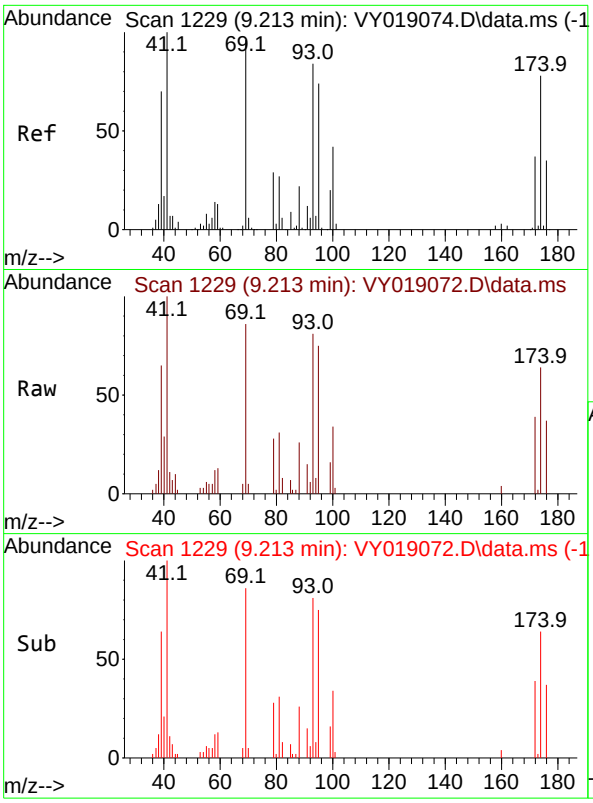


#48
Methyl methacrylate
Concen: 8.748 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 41 Resp: 6302

Ion	Ratio	Lower	Upper
41	100		
69	94.7	84.1	126.1
39	72.9	43.6	65.4#

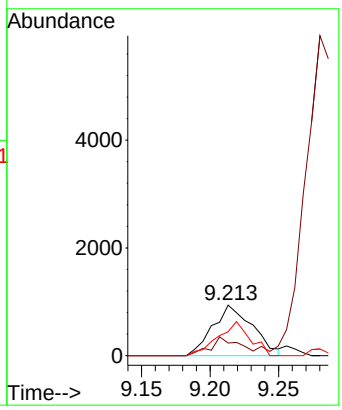




#49
1,4-Dioxane
Concen: 195.553 ug/l
RT: 9.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 88 Resp: 189

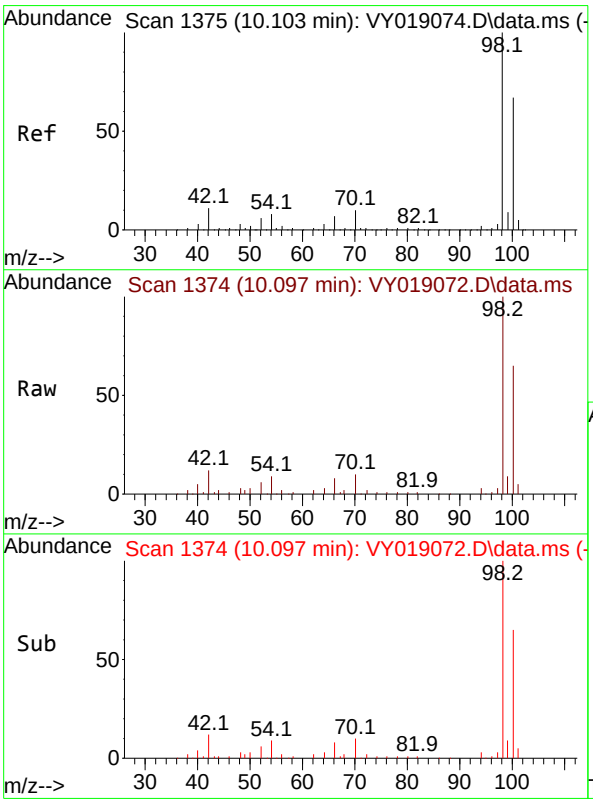
Ion	Ratio	Lower	Upper
88	100		
43	26.9	0.0	0.0
58	54.3	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

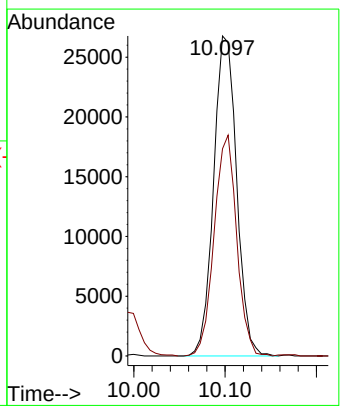
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

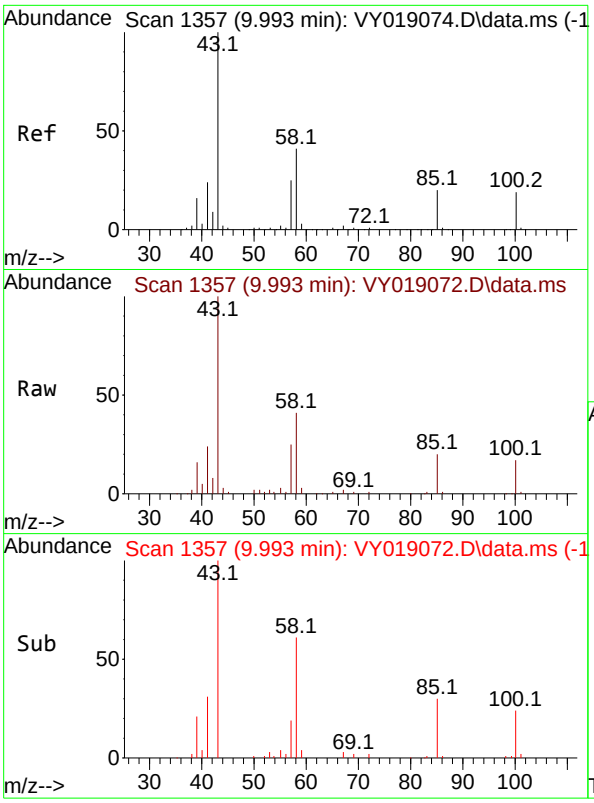


#50
Toluene-d8
Concen: 9.935 ug/l
RT: 10.097 min Scan# 1374
Delta R.T. -0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 98 Resp: 46971

Ion	Ratio	Lower	Upper
98	100		
100	67.5	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 45.254 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

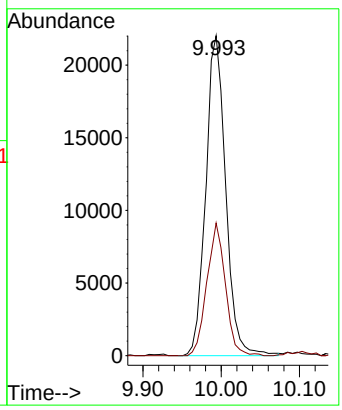
Tgt Ion: 43 Resp: 3882

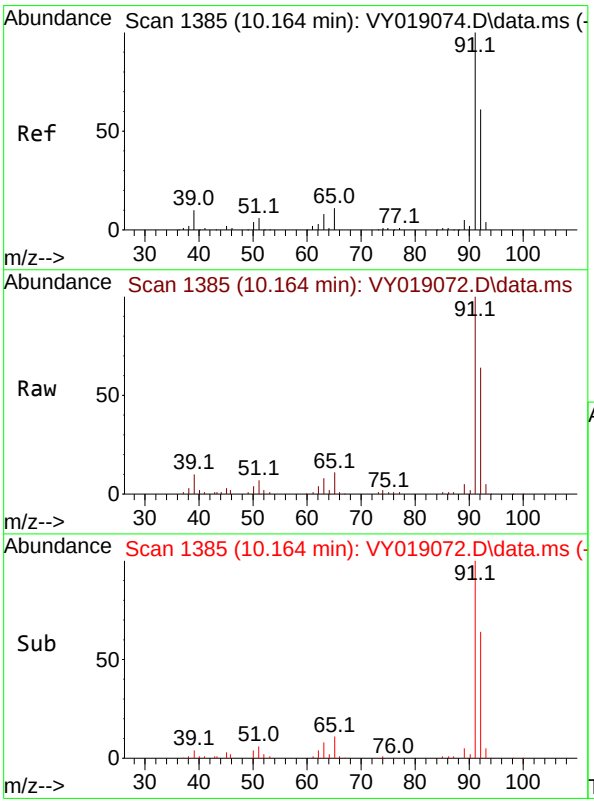
Ion	Ratio	Lower	Upper
43	100		
58	38.6	35.7	53.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

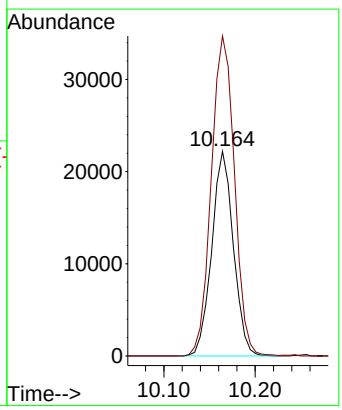


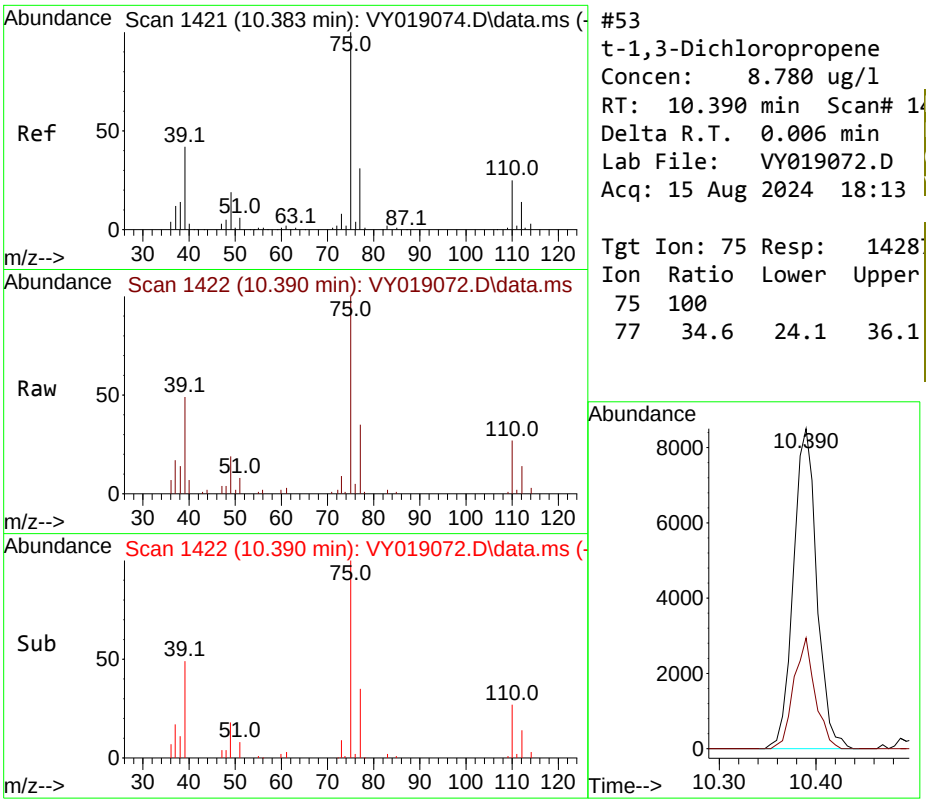


#52
Toluene
Concen: 10.038 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 92 Resp: 36457

Ion	Ratio	Lower	Upper
92	100		
91	167.6	139.0	208.6





#53
t-1,3-Dichloropropene
Concen: 8.780 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

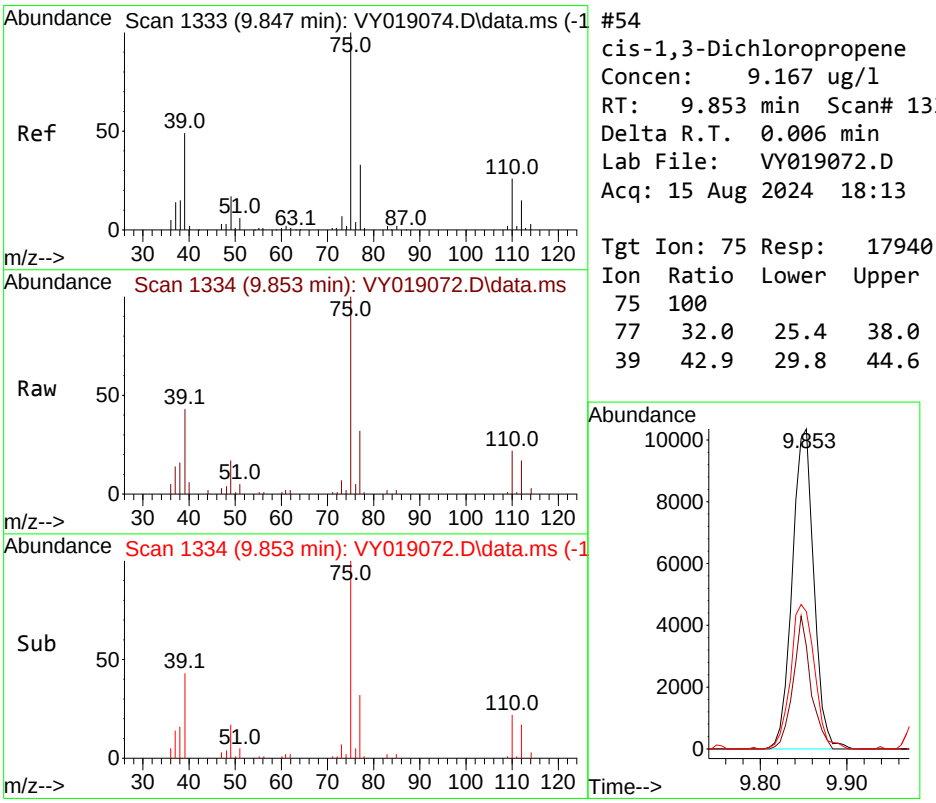
Tgt Ion: 75 Resp: 1428

Ion	Ratio	Lower	Upper
75	100		
77	34.6	24.1	36.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

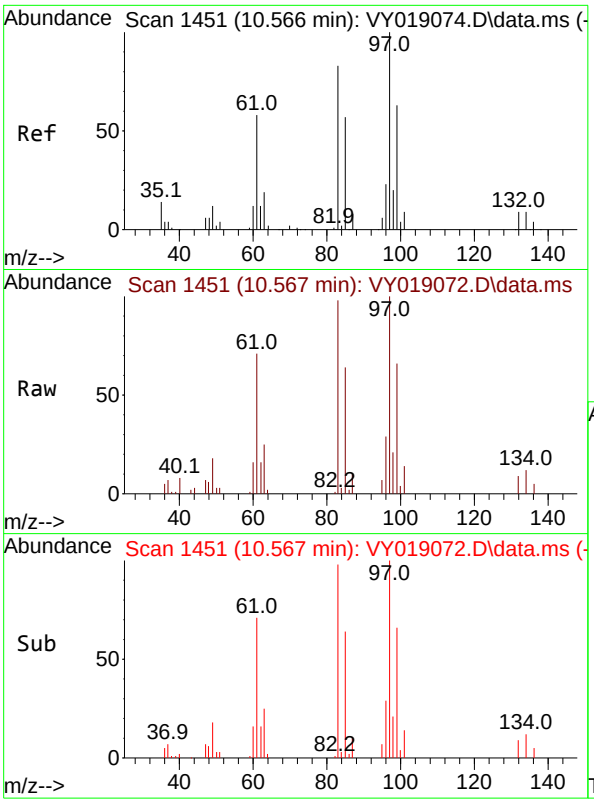
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024



#54
cis-1,3-Dichloropropene
Concen: 9.167 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 75 Resp: 17940

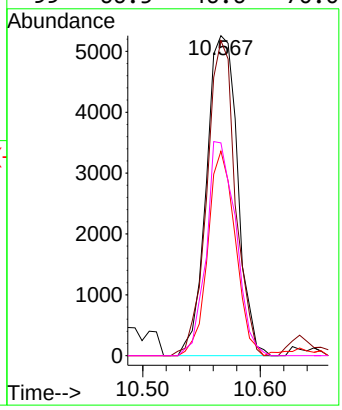
Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.4	38.0
39	42.9	29.8	44.6



#55
1,1,2-Trichloroethane
Concen: 9.408 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 97 Resp: 968

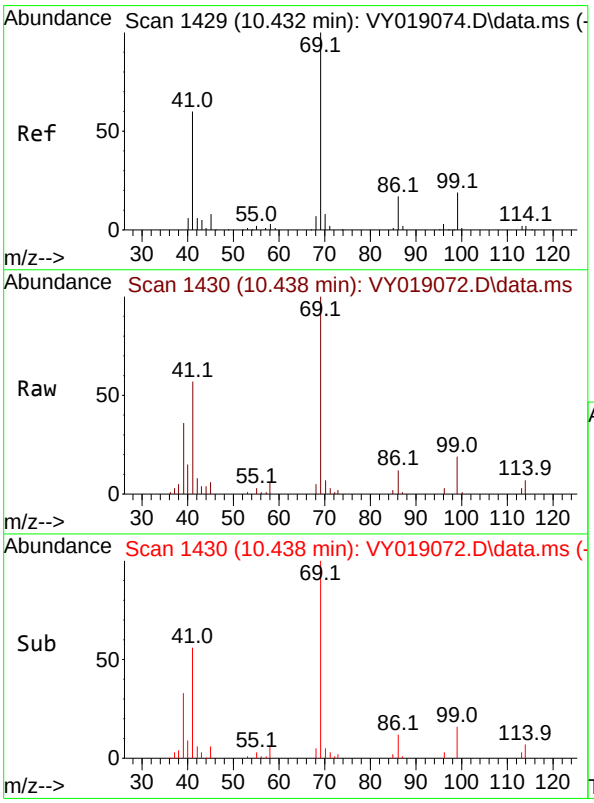
Ion	Ratio	Lower	Upper
97	100		
83	98.4	67.5	101.3
85	63.9	42.9	64.3
99	66.5	46.6	70.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

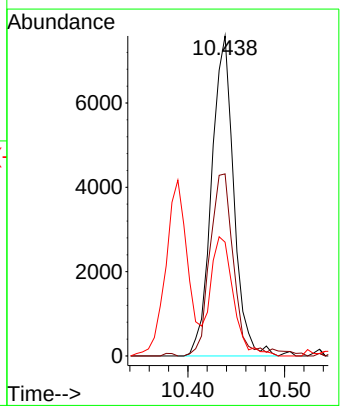
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

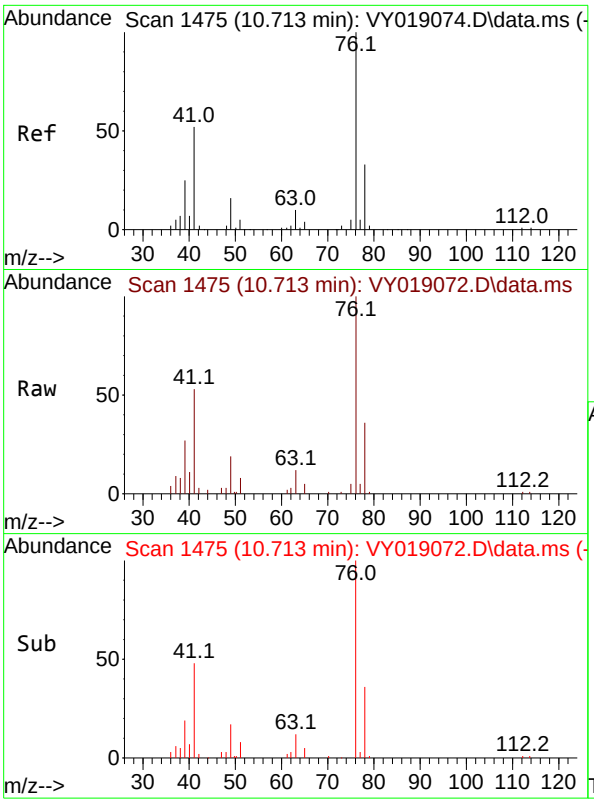


#56
Ethyl methacrylate
Concen: 8.971 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 69 Resp: 12086

Ion	Ratio	Lower	Upper
69	100		
41	60.3	42.3	63.5
39	38.1	22.9	34.3#

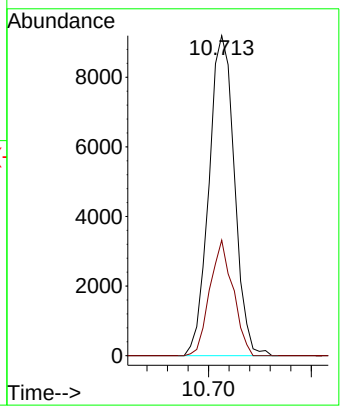




#57
1,3-Dichloropropane
Concen: 9.442 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 76 Resp: 1584

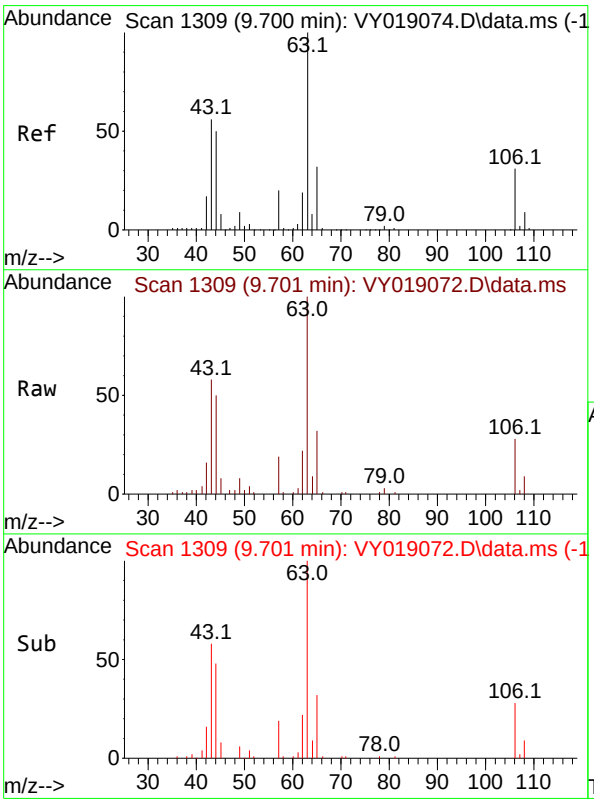
Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

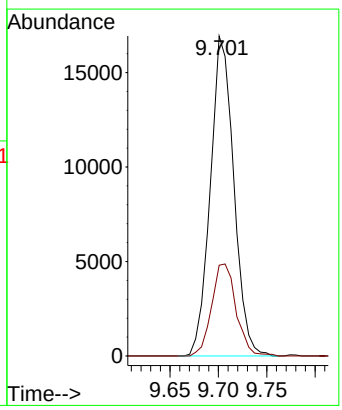
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

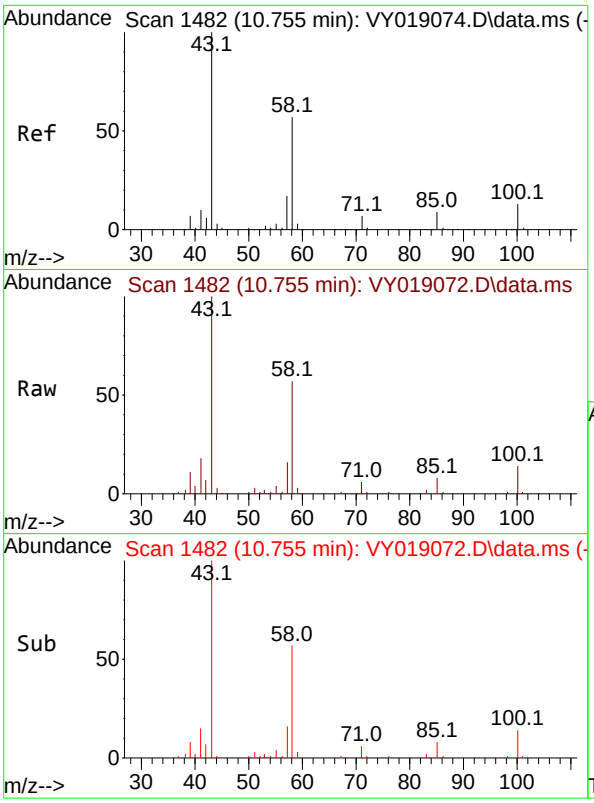


#58
2-Chloroethyl Vinyl ether
Concen: 44.642 ug/l
RT: 9.701 min Scan# 1309
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 63 Resp: 28532

Ion	Ratio	Lower	Upper
63	100		
106	30.0	23.7	35.5

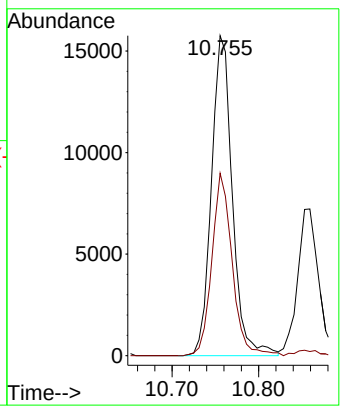




#59
2-Hexanone
Concen: 44.720 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 43 Resp: 2635

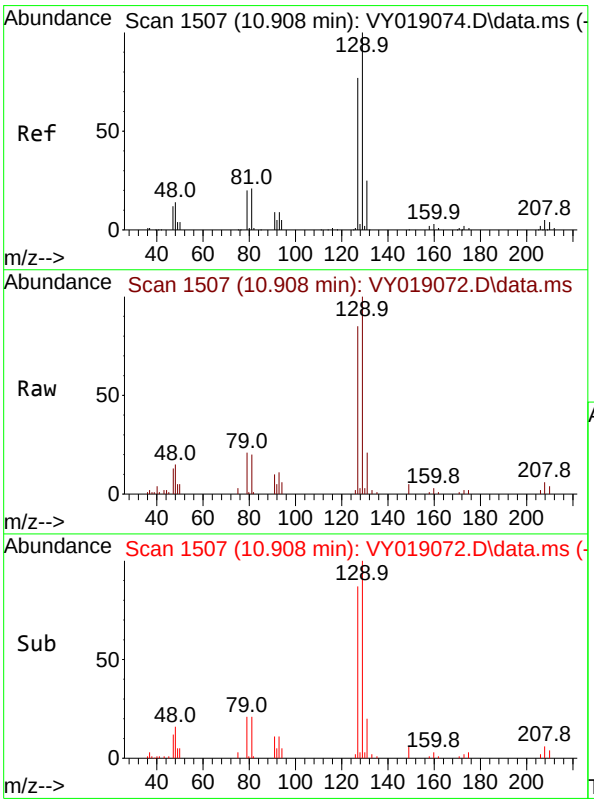
Ion	Ratio	Lower	Upper
43	100		
58	55.5	31.4	94.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

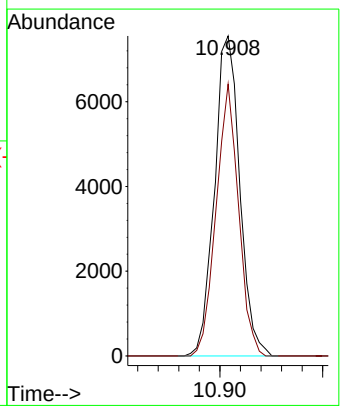
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

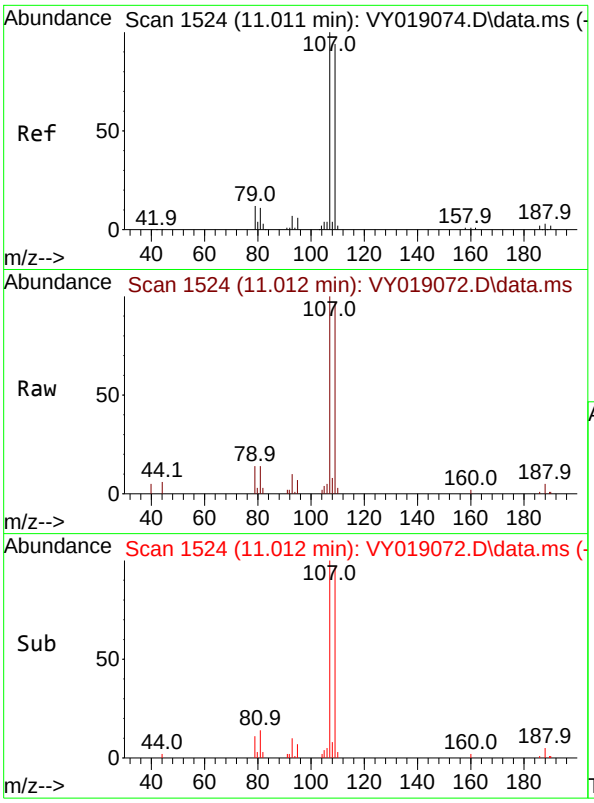


#60
Dibromochloromethane
Concen: 9.192 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:129 Resp: 12886

Ion	Ratio	Lower	Upper
129	100		
127	75.4	39.0	117.0

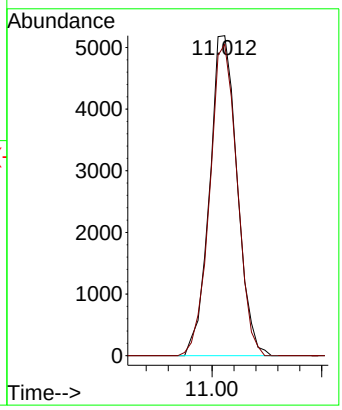




#61
1,2-Dibromoethane
Concen: 9.137 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:107 Resp: 909

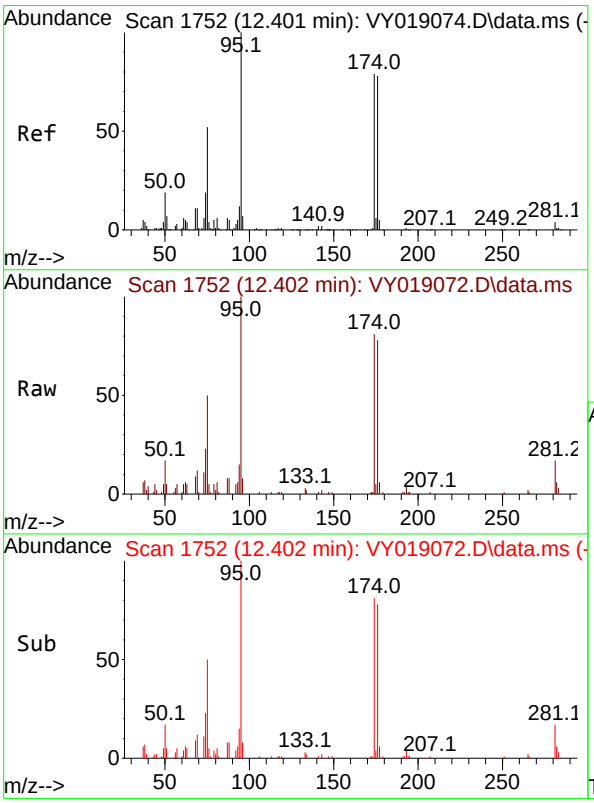
Ion	Ratio	Lower	Upper
107	100		
109	96.4	75.9	113.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

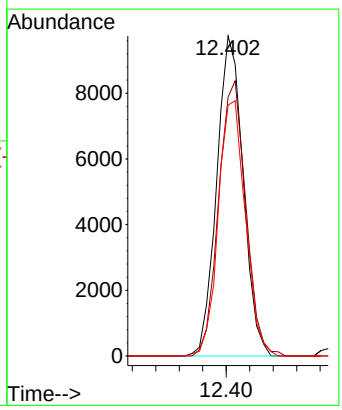
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

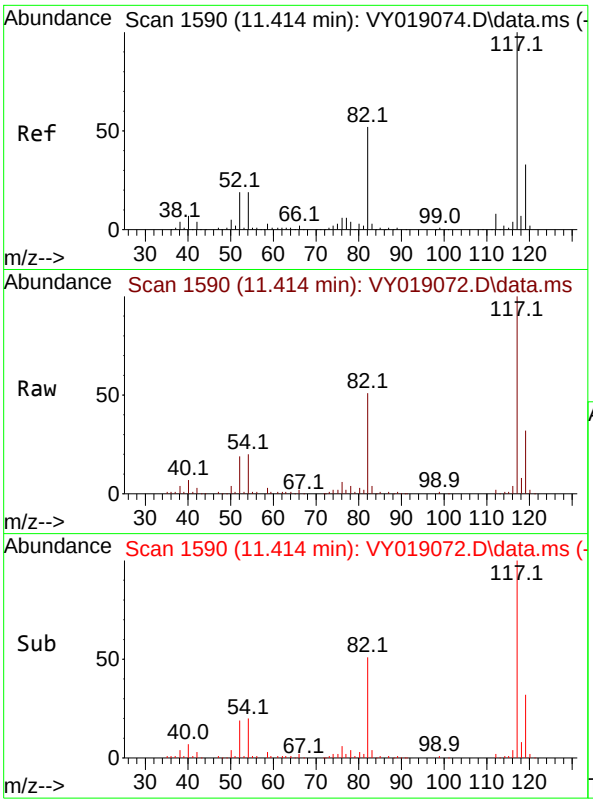


#62
4-Bromofluorobenzene
Concen: 9.450 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 95 Resp: 15231

Ion	Ratio	Lower	Upper
95	100		
174	88.4	0.0	175.6
176	82.1	0.0	171.4

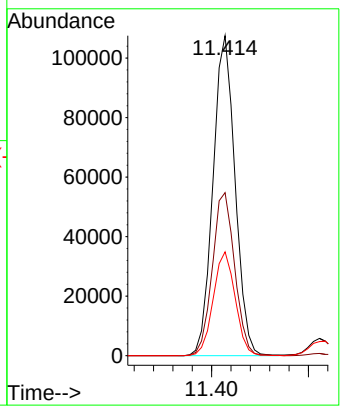




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:117 Resp: 17023

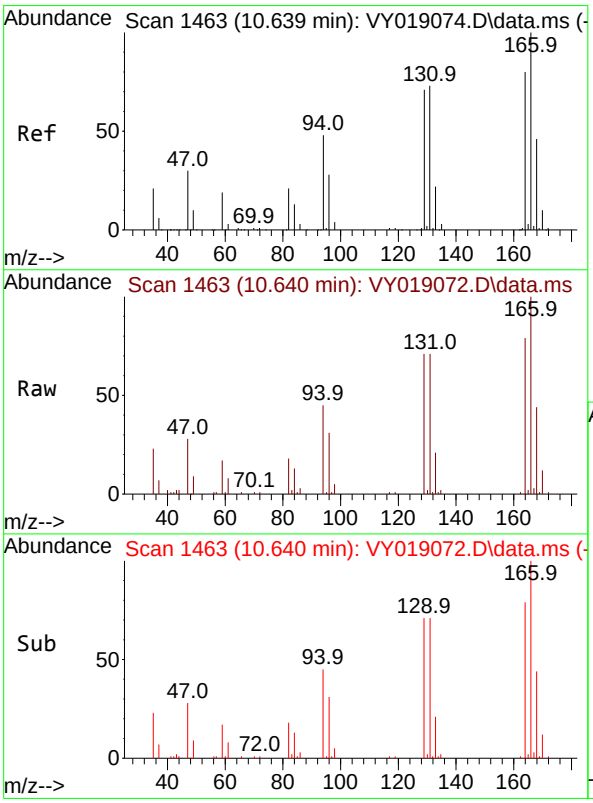
Ion	Ratio	Lower	Upper
117	100		
82	51.0	42.4	63.6
119	32.5	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

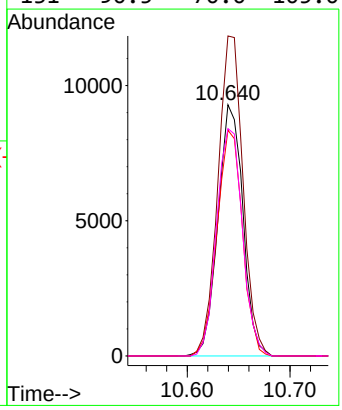
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

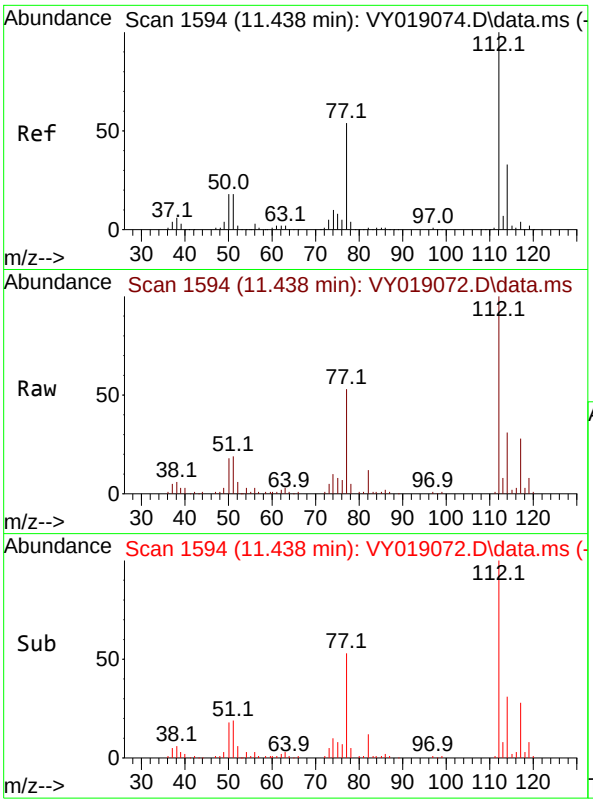


#64
Tetrachloroethene
Concen: 10.486 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:164 Resp: 15602

Ion	Ratio	Lower	Upper
164	100		
166	127.4	102.6	154.0
129	89.9	72.0	108.0
131	90.5	70.0	105.0

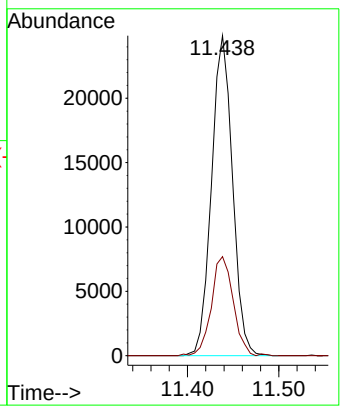




#65
Chlorobenzene
Concen: 10.102 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:112 Resp: 3959

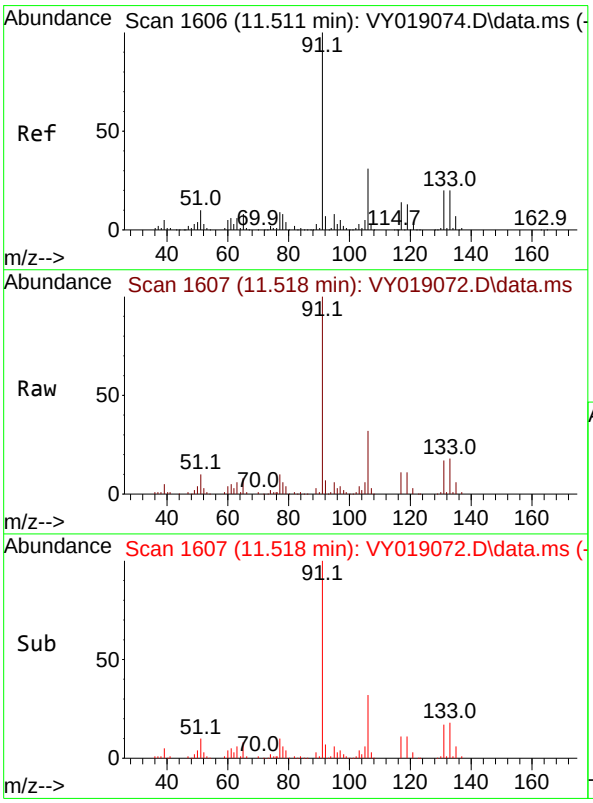
Ion	Ratio	Lower	Upper
112	100		
114	31.0	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

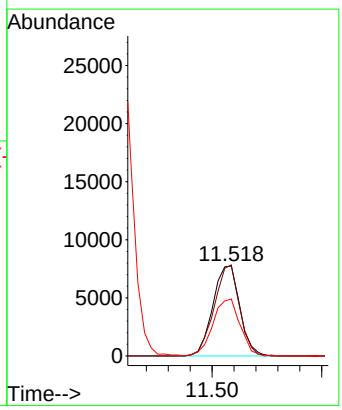
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

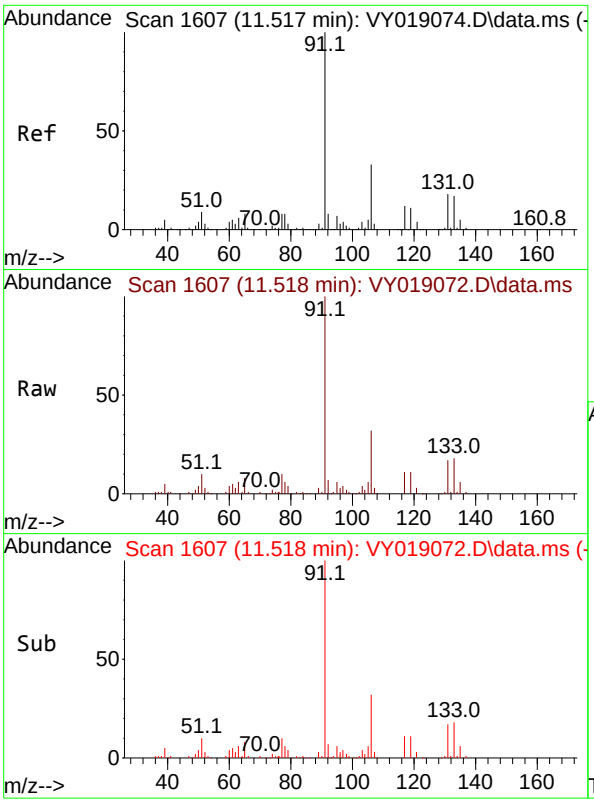


#66
1,1,1,2-Tetrachloroethane
Concen: 9.555 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:131 Resp: 13171

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.8	143.3
119	64.3	34.1	102.2

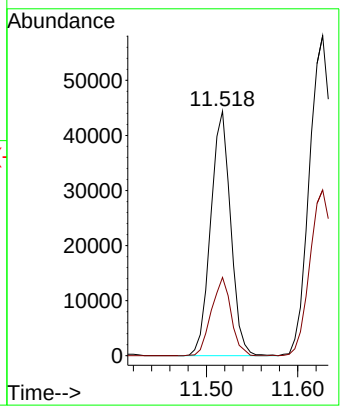




#67
Ethyl Benzene
Concen: 9.904 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 91 Resp: 6738

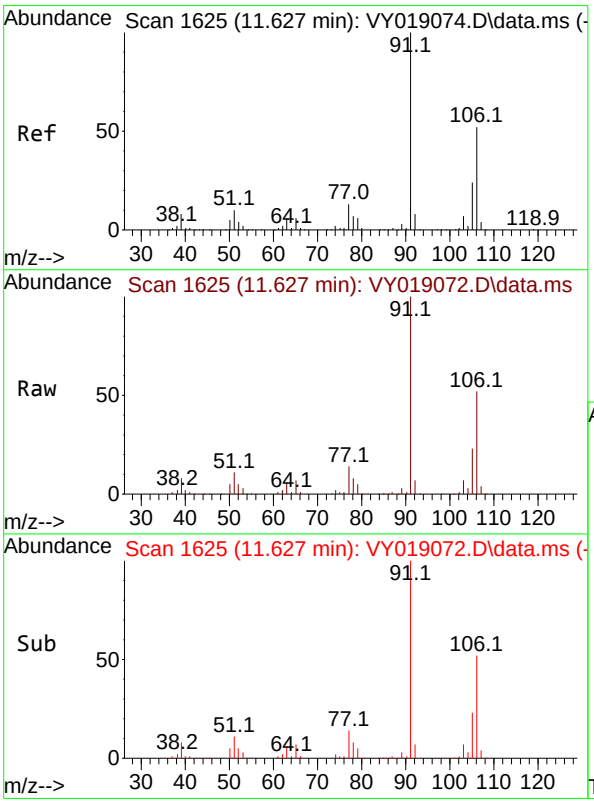
Ion	Ratio	Lower	Upper
91	100		
106	32.0	24.5	36.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

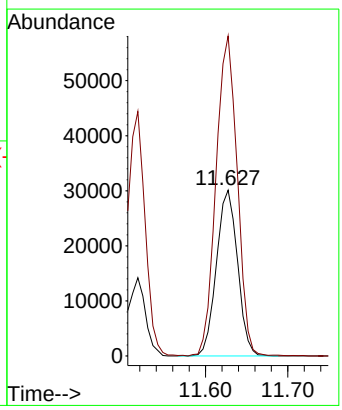
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

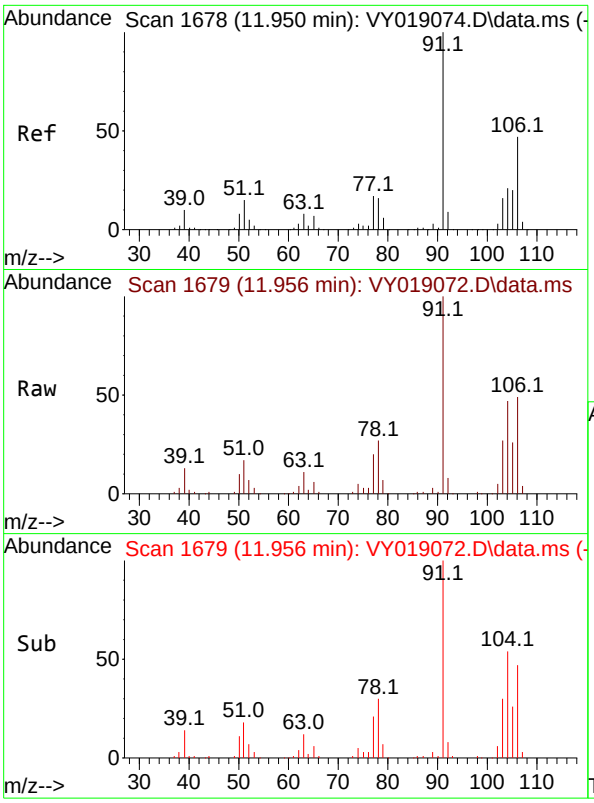


#68
m/p-Xylenes
Concen: 19.924 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:106 Resp: 53785

Ion	Ratio	Lower	Upper
106	100		
91	194.1	156.0	234.0

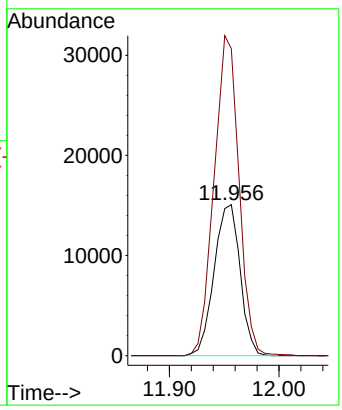




#69
o-Xylene
Concen: 9.937 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:106 Resp: 2484

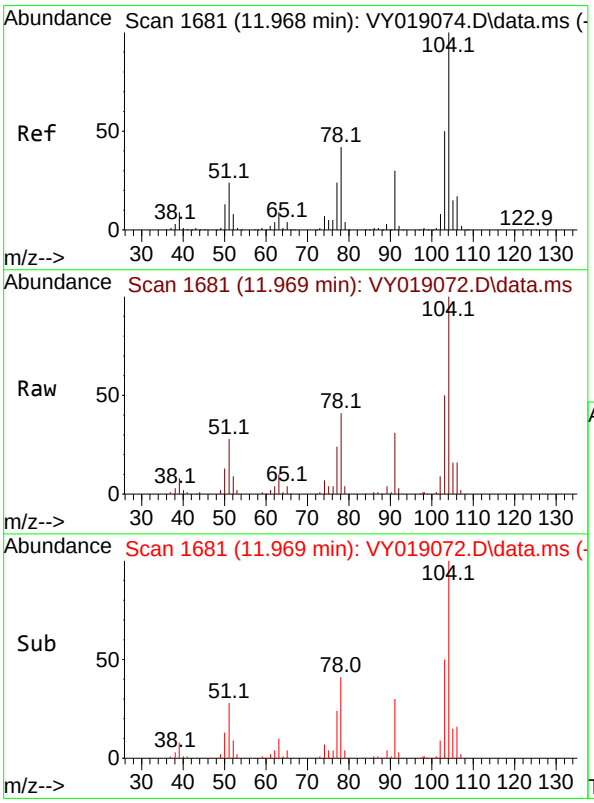
Ion	Ratio	Lower	Upper
106	100		
91	203.4	103.6	310.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

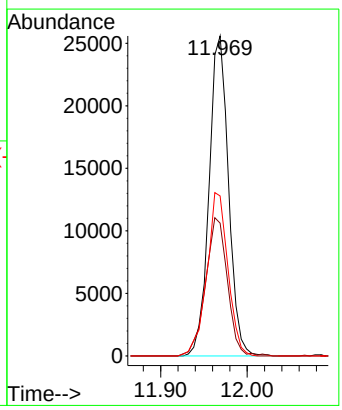
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

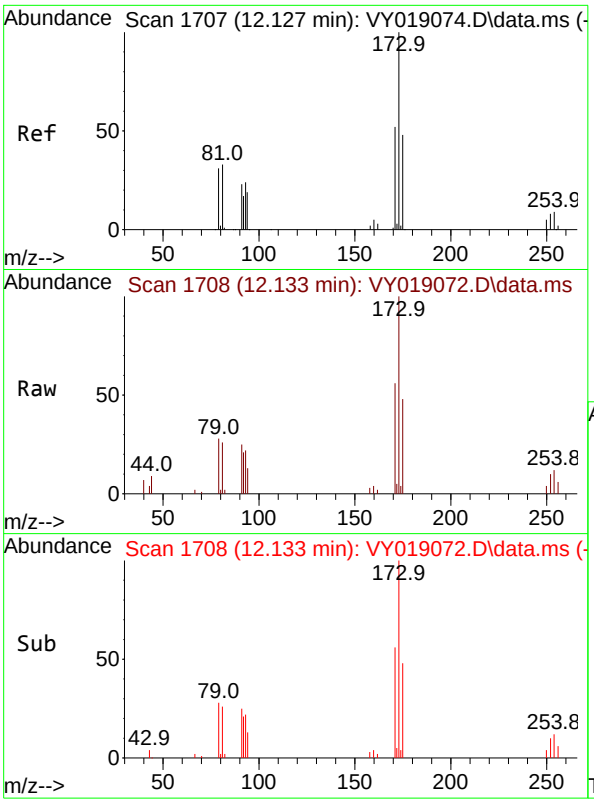


#70
Styrene
Concen: 9.358 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:104 Resp: 39892

Ion	Ratio	Lower	Upper
104	100		
78	48.4	37.0	55.4
103	55.3	44.2	66.2

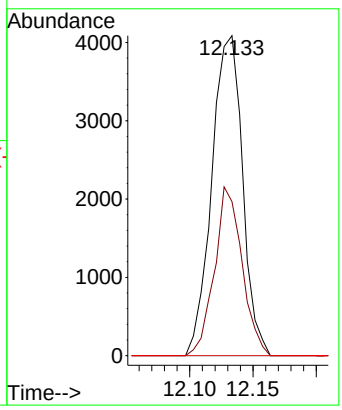




#71
Bromoform
Concen: 8.772 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:173 Resp: 691

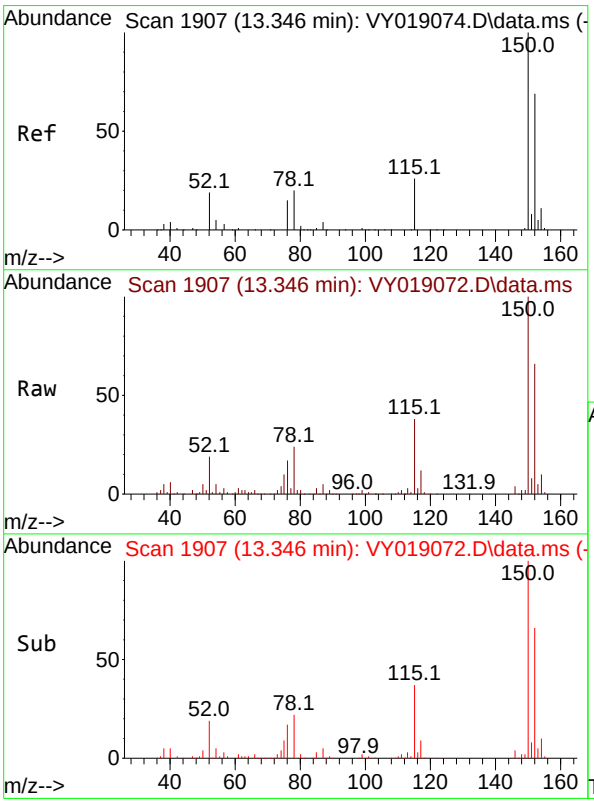
Ion	Ratio	Lower	Upper
173	100		
175	47.1	25.1	75.3
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

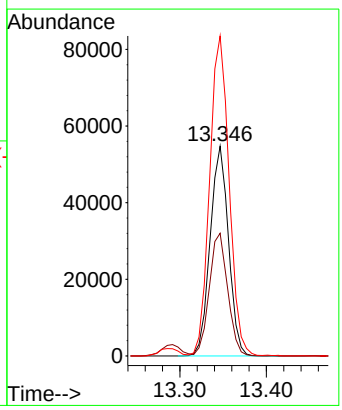
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

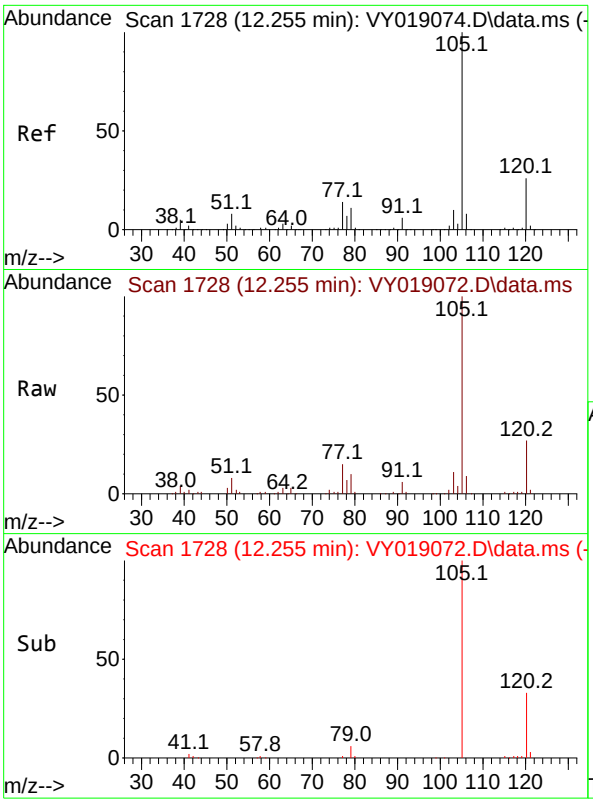


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:152 Resp: 80619

Ion	Ratio	Lower	Upper
152	100		
115	58.5	28.2	84.7
150	160.8	0.0	345.6

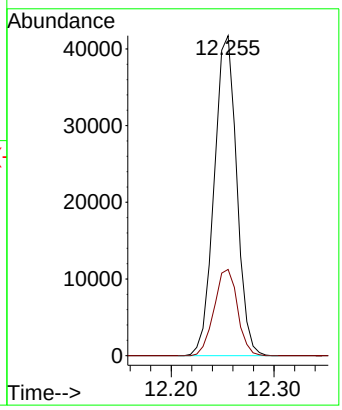




#73
Isopropylbenzene
Concen: 10.249 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:105 Resp: 6332

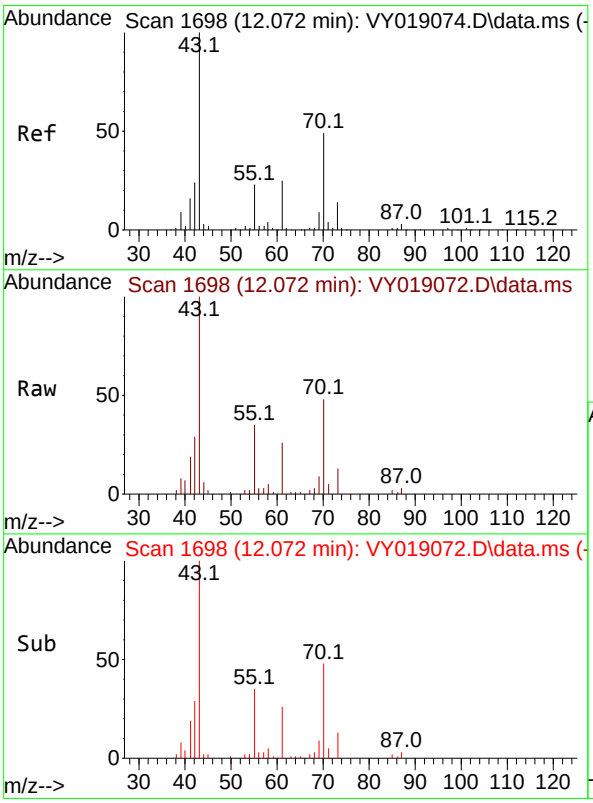
Ion	Ratio	Lower	Upper
105	100		
120	28.0	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

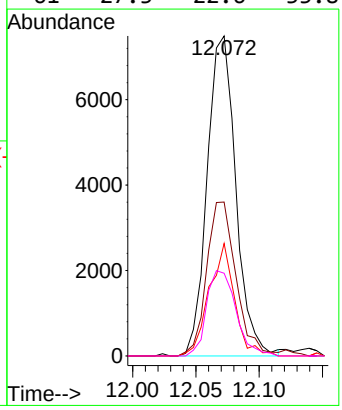
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

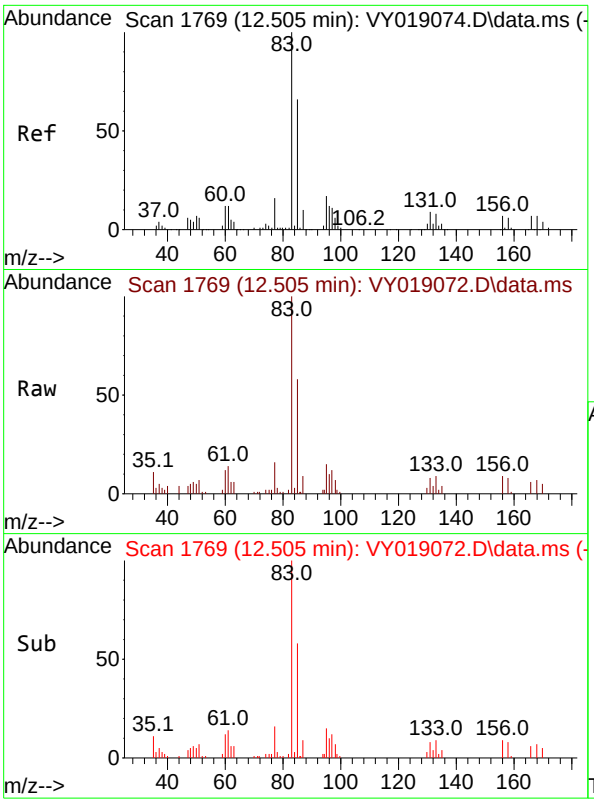


#74
N-amyl acetate
Concen: 8.773 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 43 Resp: 11820

Ion	Ratio	Lower	Upper
43	100		
70	49.3	41.4	62.2
55	31.2	23.3	34.9
61	27.3	22.6	33.8





#75
1,1,2,2-Tetrachloroethane
Concen: 9.755 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

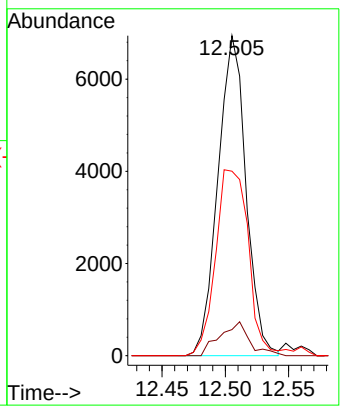
Tgt Ion: 83 Resp: 1073

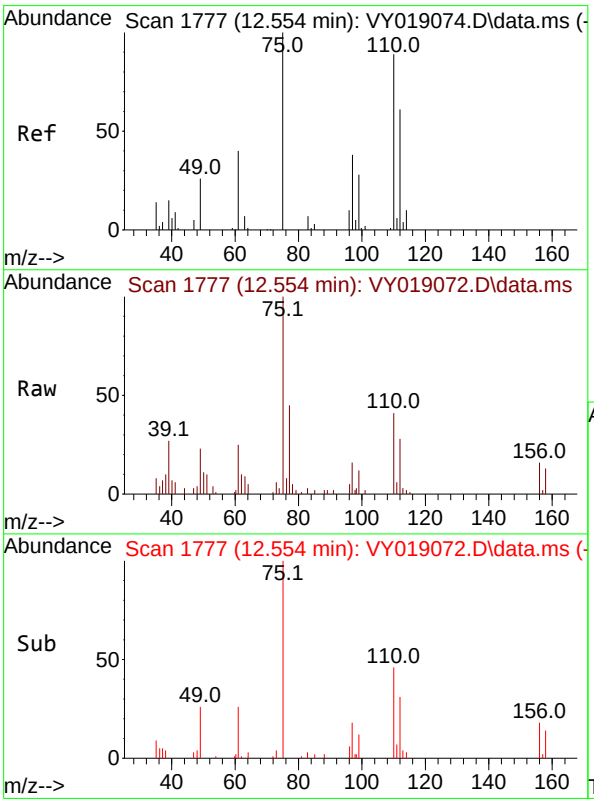
Ion	Ratio	Lower	Upper
83	100		
131	11.2	5.0	14.9
85	67.5	32.0	96.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

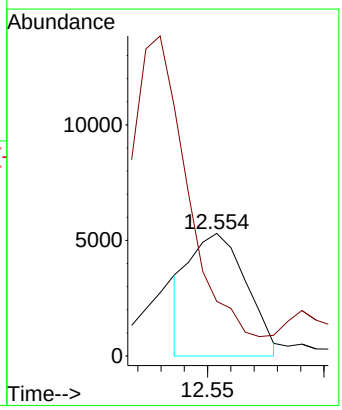


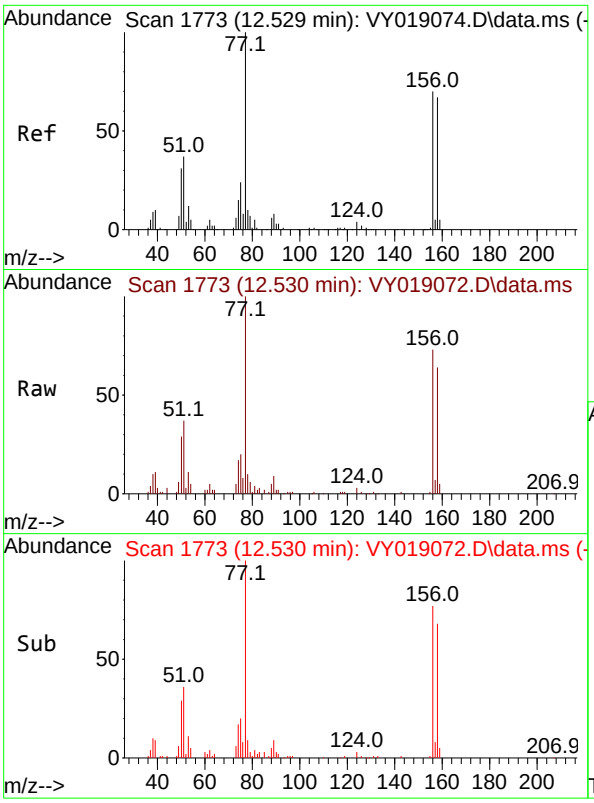


#76
1,2,3-Trichloropropane
Concen: 11.800 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 75 Resp: 9036

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

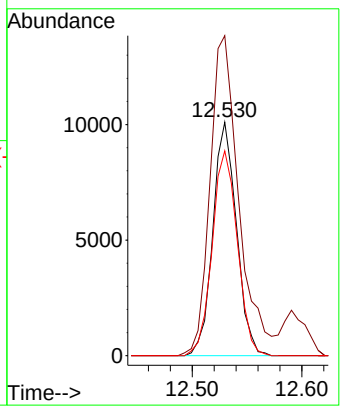




#77
Bromobenzene
Concen: 10.198 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:156 Resp: 1513

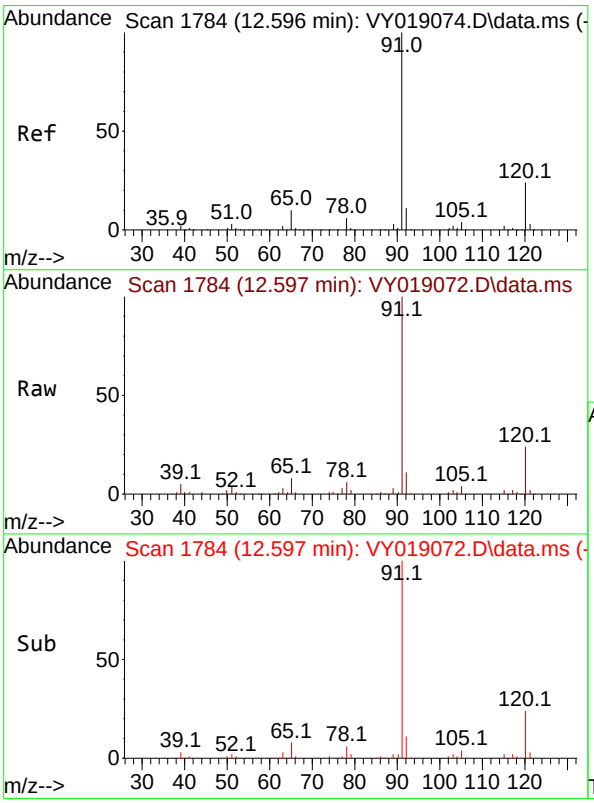
Ion	Ratio	Lower	Upper
156	100		
77	166.3	87.1	261.3
158	93.3	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

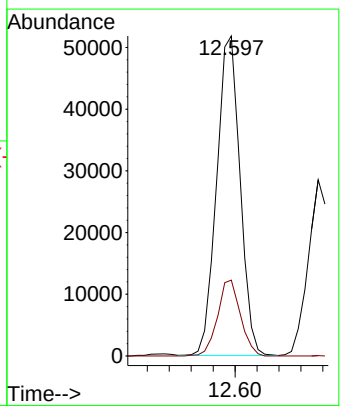
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

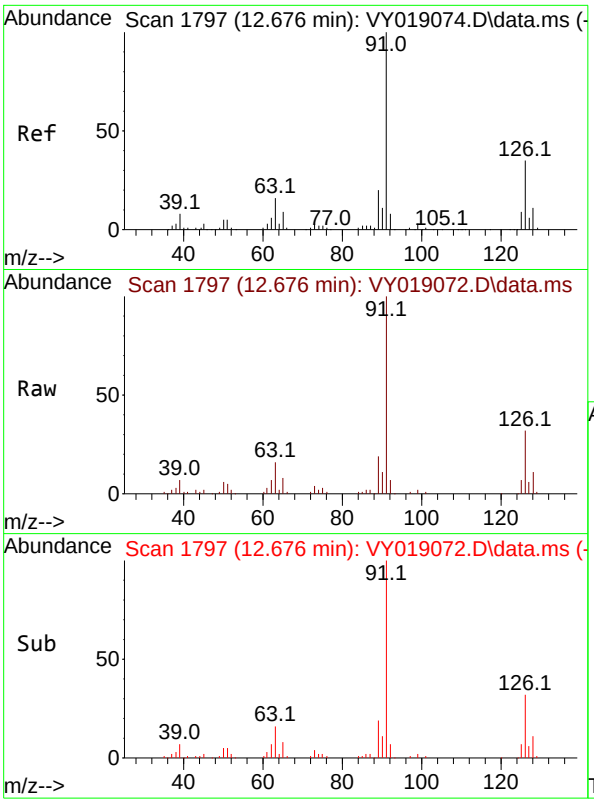


#78
n-propylbenzene
Concen: 10.404 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 91 Resp: 76851

Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.5	34.4





#79
2-Chlorotoluene
Concen: 10.288 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

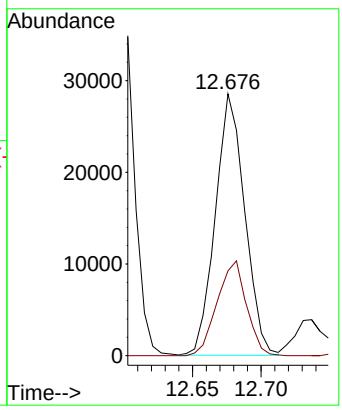
Tgt Ion: 91 Resp: 4260

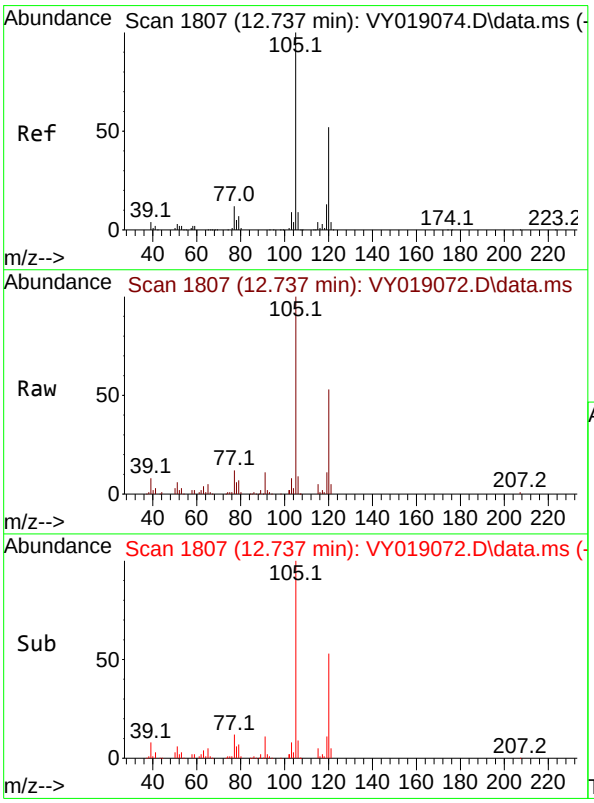
Ion	Ratio	Lower	Upper
91	100		
126	36.1	17.8	53.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

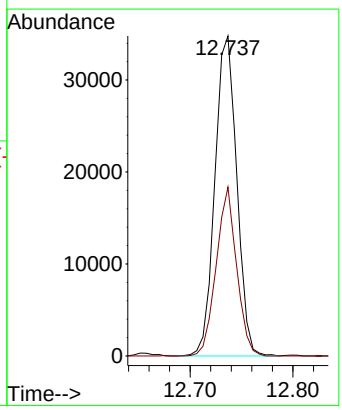


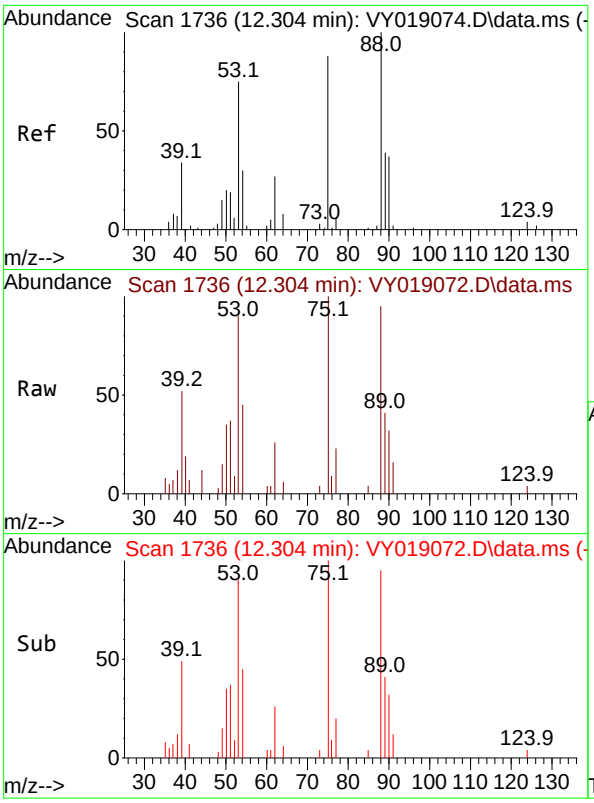


#80
1,3,5-Trimethylbenzene
Concen: 10.206 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:105 Resp: 51375

Ion	Ratio	Lower	Upper
105	100		
120	49.2	25.1	75.2





#81
trans-1,4-Dichloro-2-butene
Concen: 9.605 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

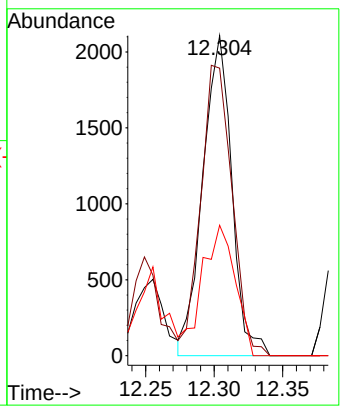
Tgt Ion: 75 Resp: 309

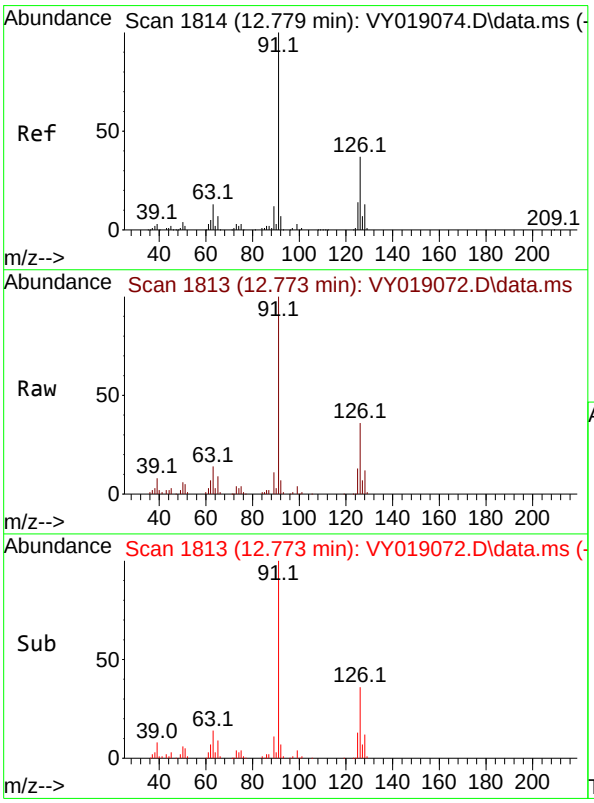
Ion	Ratio	Lower	Upper
75	100		
53	98.2	66.8	100.2
89	46.6	35.8	53.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

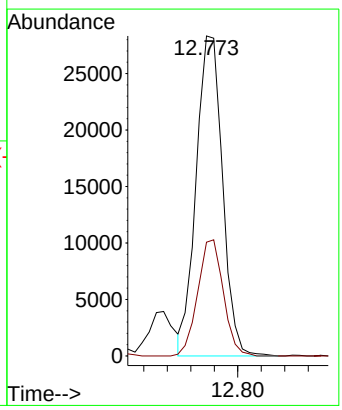


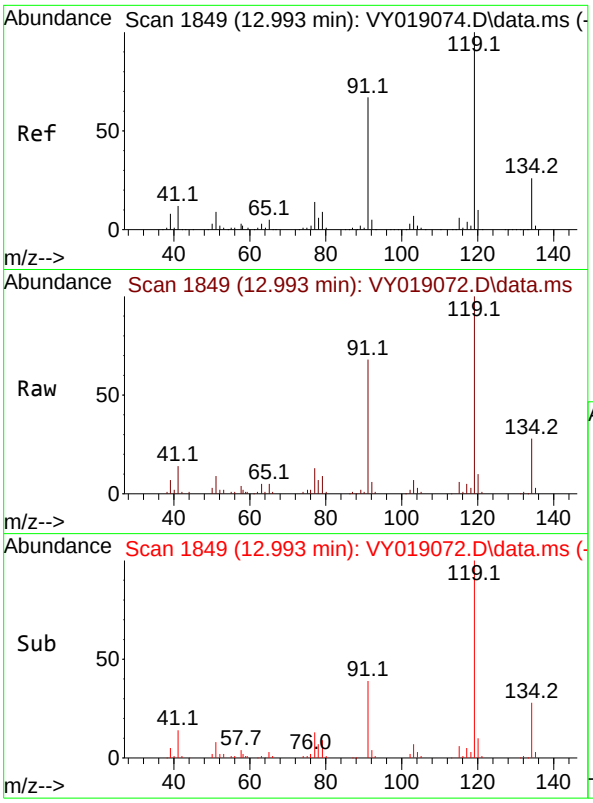


#82
4-Chlorotoluene
Concen: 10.254 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 91 Resp: 44180

Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.6	52.9

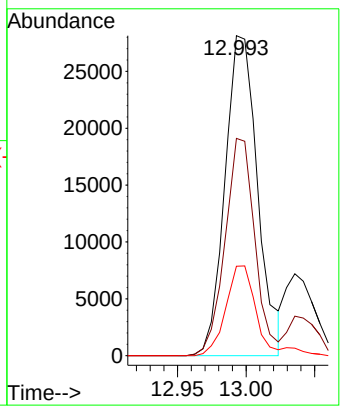




#83
tert-Butylbenzene
Concen: 10.031 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:119 Resp: 4662

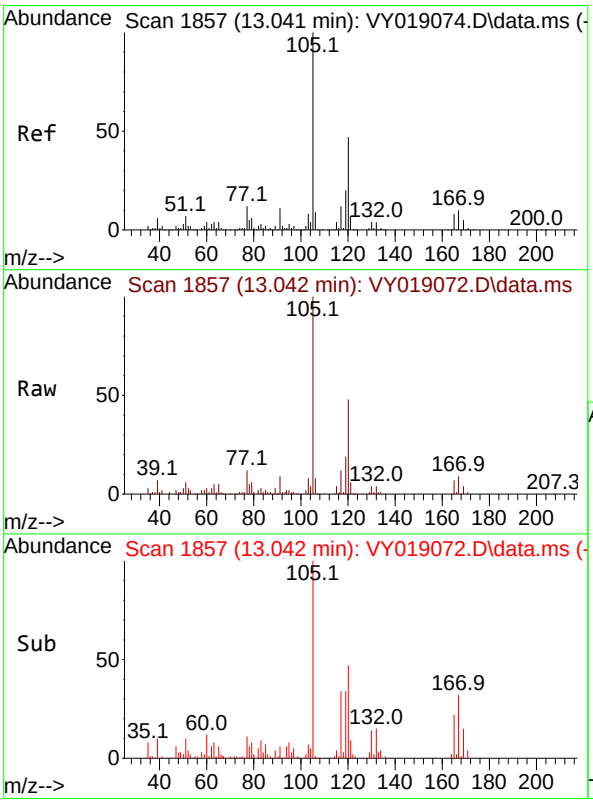
Ion	Ratio	Lower	Upper
119	100		
91	62.3	31.3	93.8
134	26.9	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

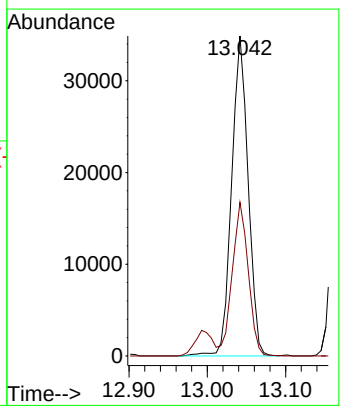
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

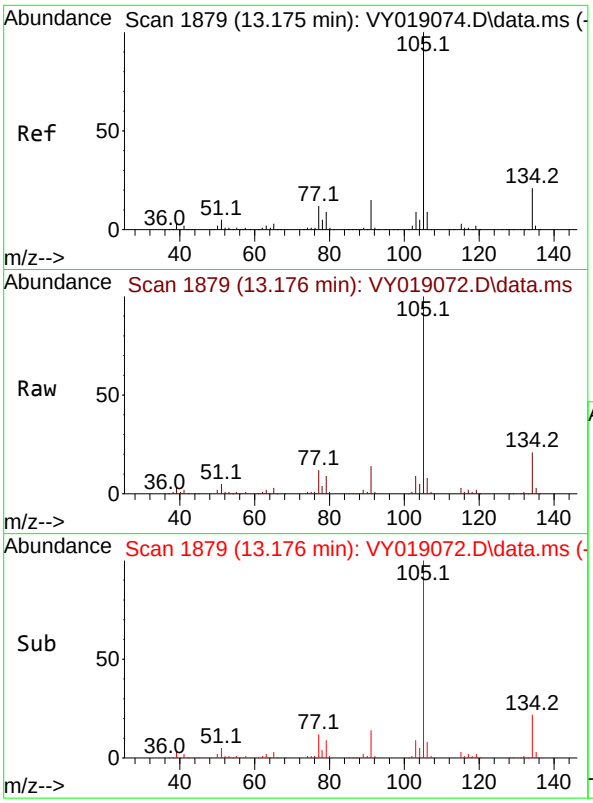


#84
1,2,4-Trimethylbenzene
Concen: 10.132 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:105 Resp: 50831

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.2	69.6

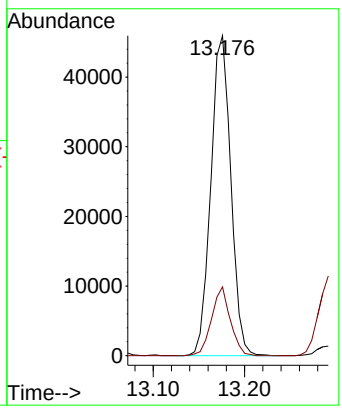




#85
sec-Butylbenzene
Concen: 10.296 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:105 Resp: 6974

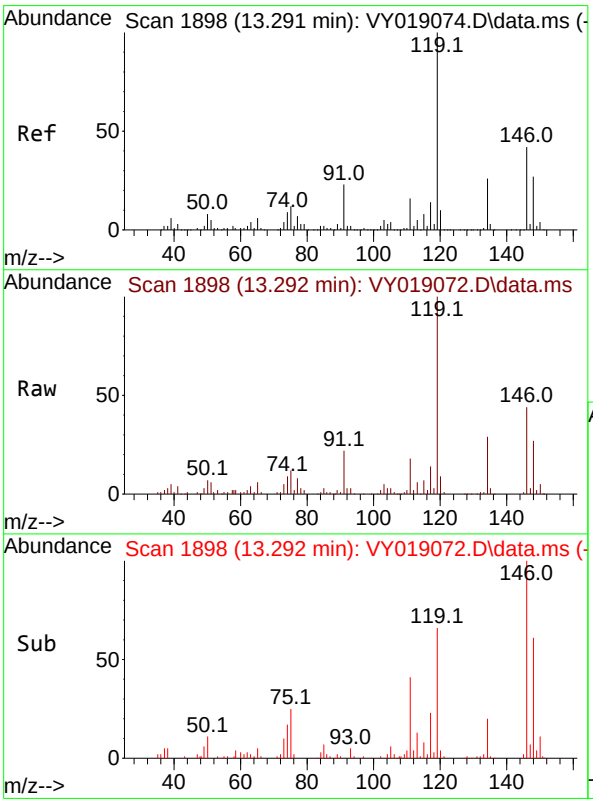
Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

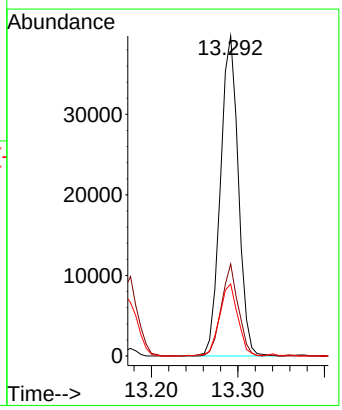
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

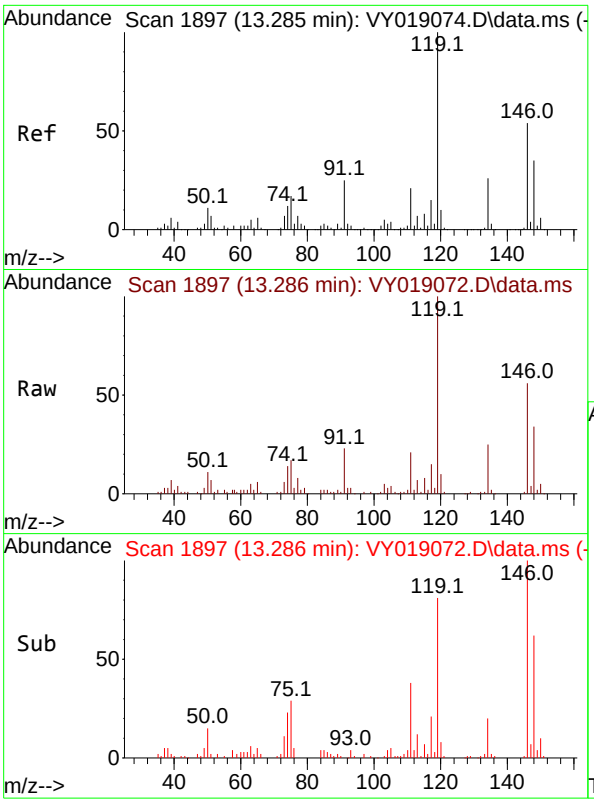


#86
p-Isopropyltoluene
Concen: 10.250 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:119 Resp: 57033

Ion	Ratio	Lower	Upper
119	100		
134	27.2	13.1	39.3
91	23.2	10.7	32.1

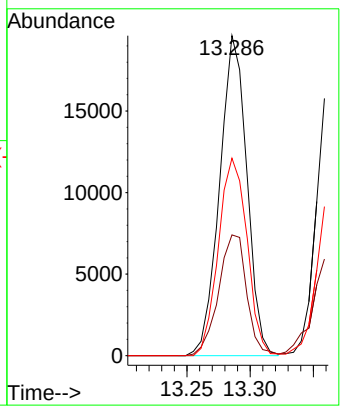




#87
1,3-Dichlorobenzene
Concen: 10.048 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:146 Resp: 2940

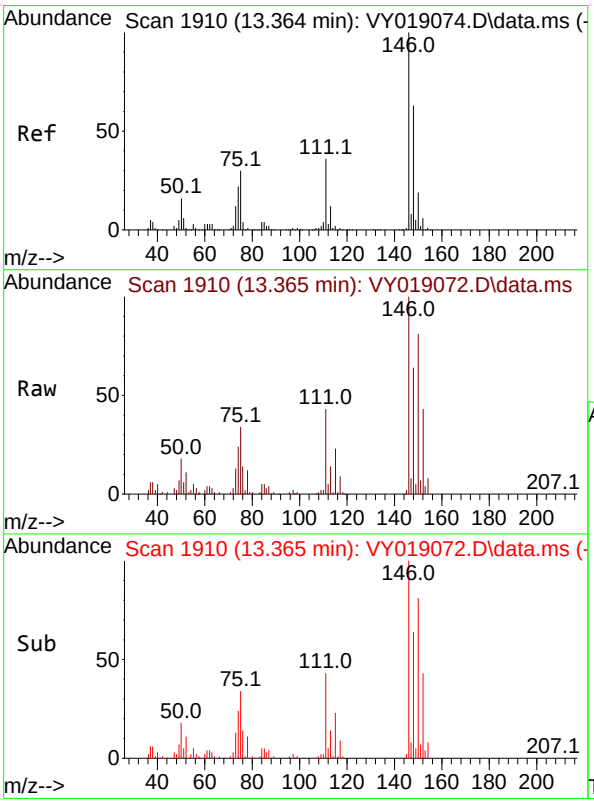
Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.0	57.0
148	64.9	31.7	95.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

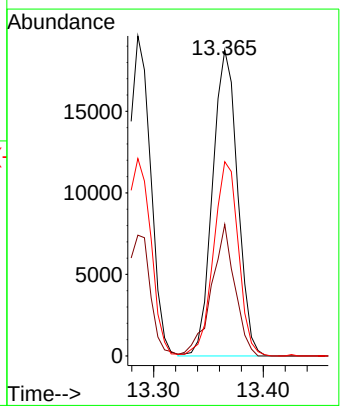
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

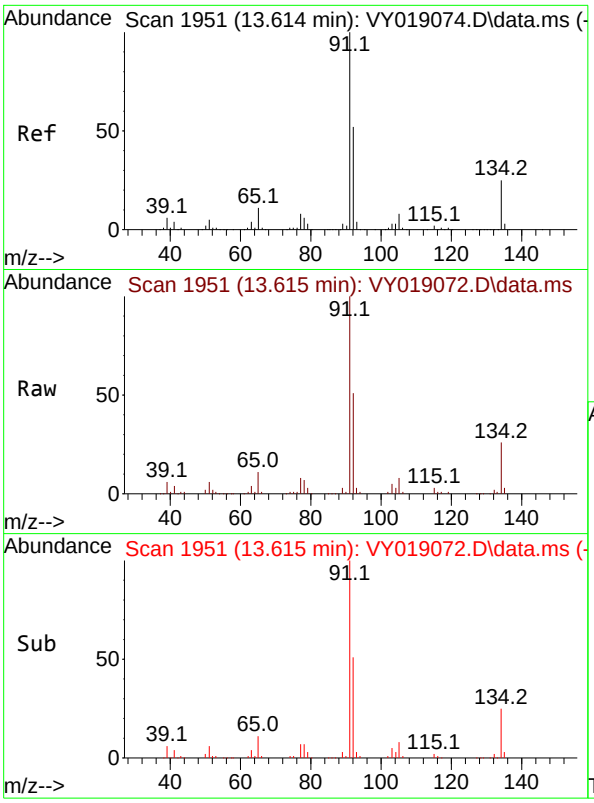


#88
1,4-Dichlorobenzene
Concen: 10.201 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:146 Resp: 29677

Ion	Ratio	Lower	Upper
146	100		
111	40.3	18.4	55.4
148	63.3	32.4	97.2

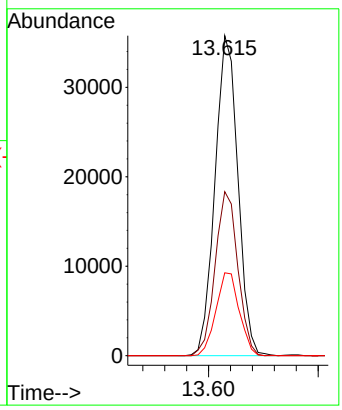




#89
n-Butylbenzene
Concen: 10.239 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 91 Resp: 5194

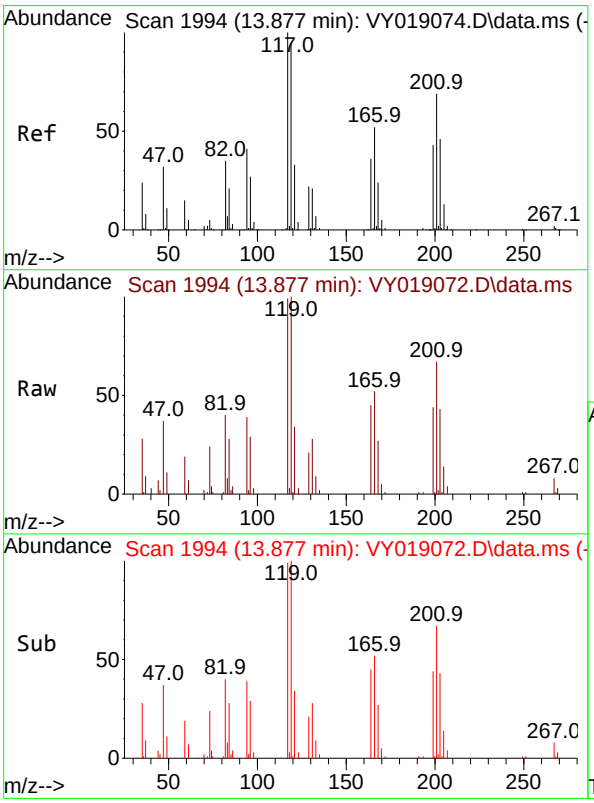
Ion	Ratio	Lower	Upper
91	100		
92	50.9	26.6	79.7
134	26.4	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

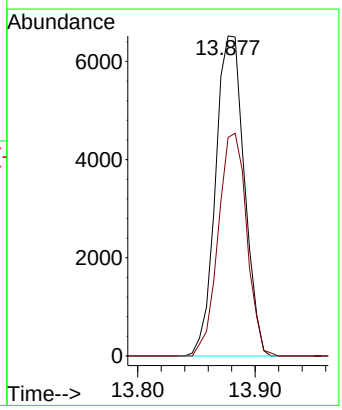
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

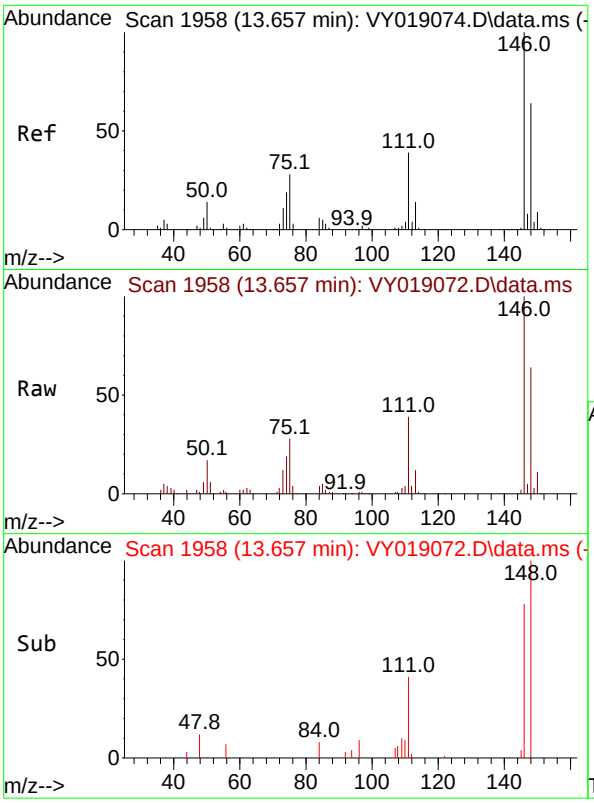


#90
Hexachloroethane
Concen: 10.124 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:117 Resp: 11103

Ion	Ratio	Lower	Upper
117	100		
201	68.9	37.4	112.2

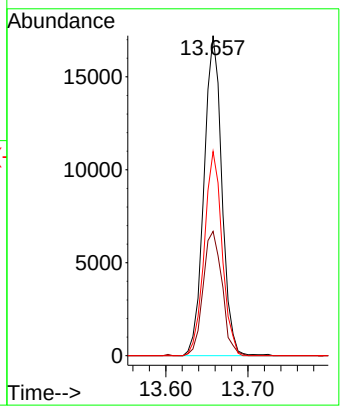




#91
1,2-Dichlorobenzene
Concen: 10.105 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:146 Resp: 2600

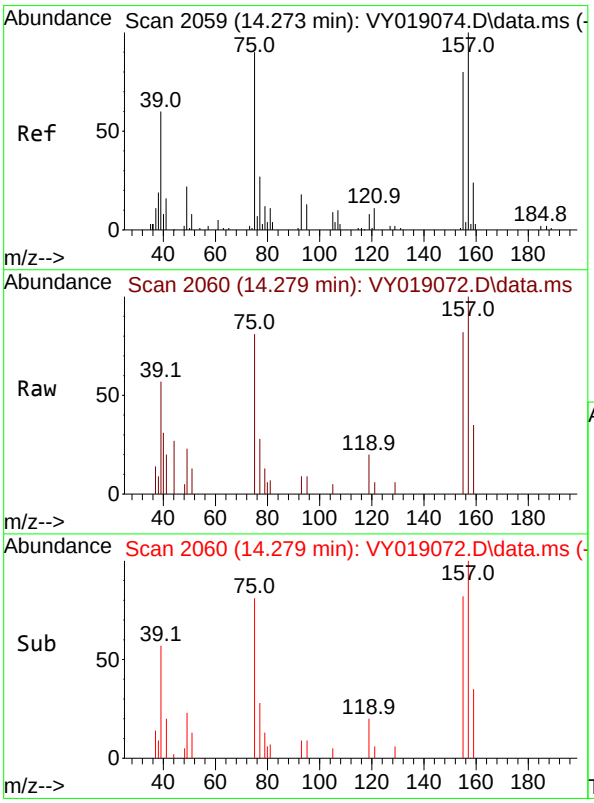
Ion	Ratio	Lower	Upper
146	100		
111	41.0	19.9	59.7
148	63.5	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

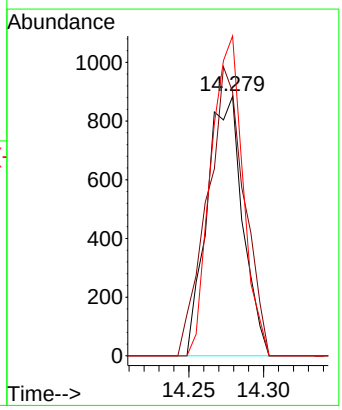
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

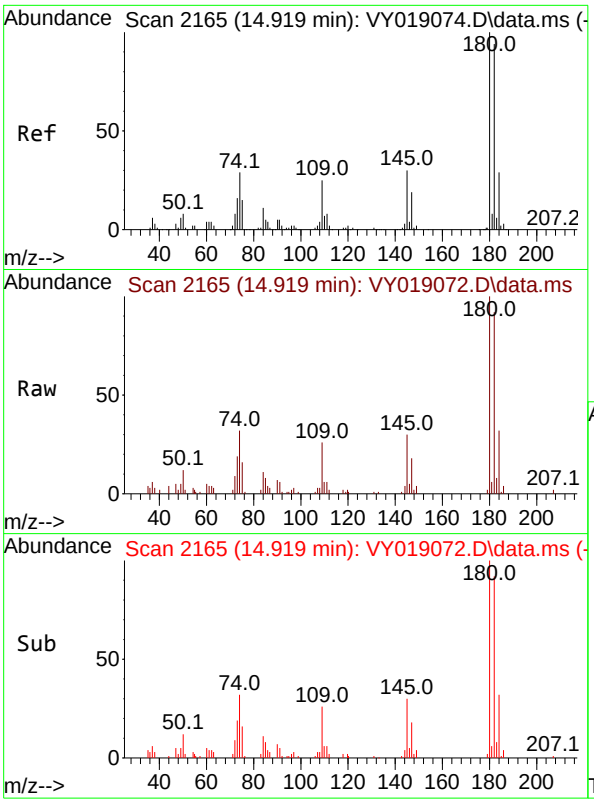


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.077 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion: 75 Resp: 1469

Ion	Ratio	Lower	Upper
75	100		
155	115.4	48.6	145.8
157	110.1	62.7	188.2

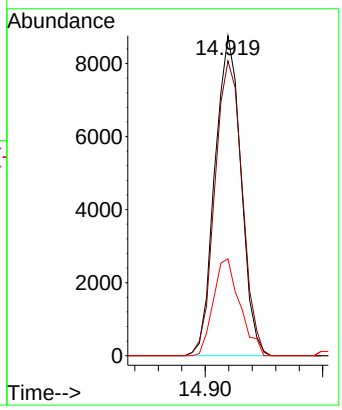




#93
1,2,4-Trichlorobenzene
Concen: 9.314 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:180 Resp: 1351

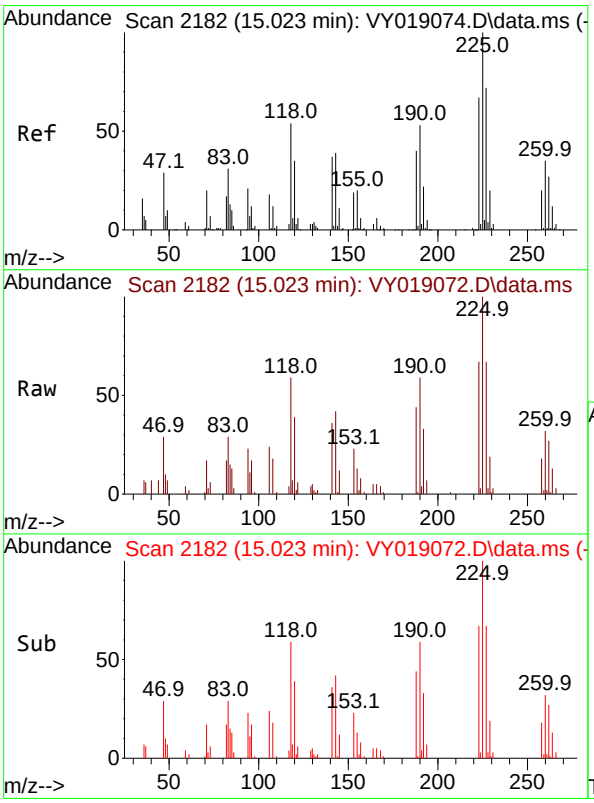
Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.9	143.8
145	30.8	14.2	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

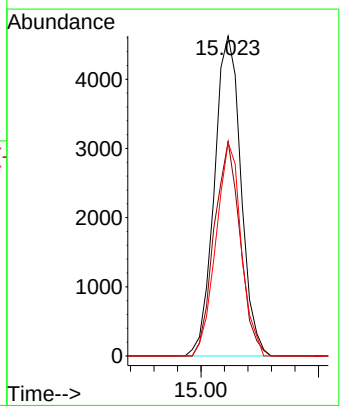
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

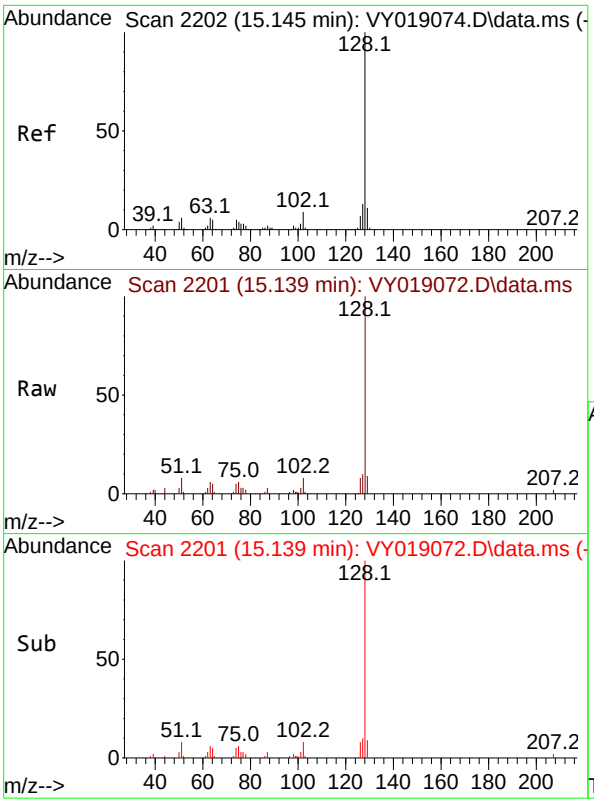


#94
Hexachlorobutadiene
Concen: 9.633 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:225 Resp: 7283

Ion	Ratio	Lower	Upper
225	100		
223	65.2	30.4	91.2
227	63.3	31.9	95.9

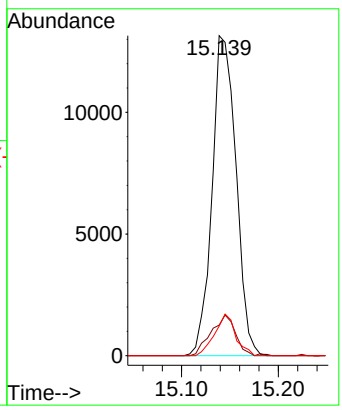




#95
Naphthalene
Concen: 8.716 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:128 Resp: 2258

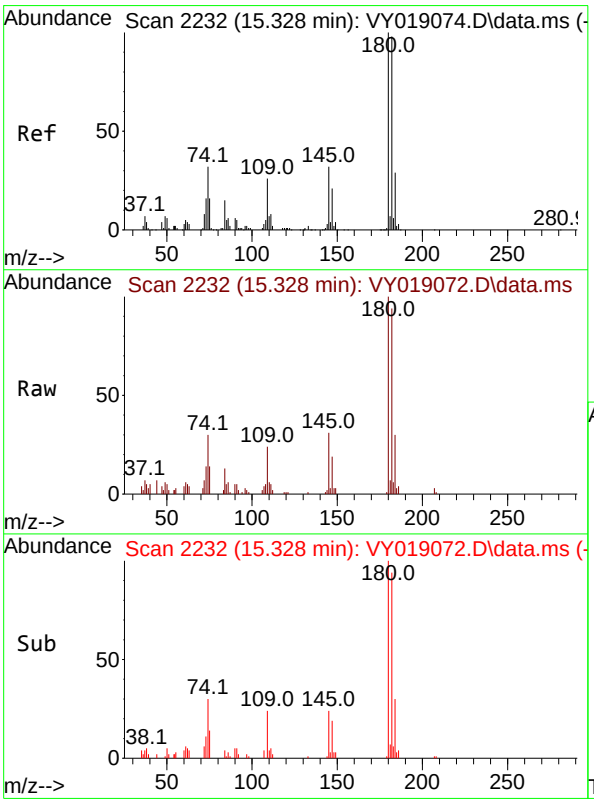
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	11.4	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

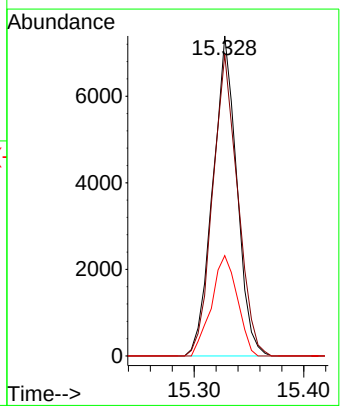
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024



#96
1,2,3-Trichlorobenzene
Concen: 9.187 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY019072.D
Acq: 15 Aug 2024 18:13

Tgt Ion:180 Resp: 11247

Ion	Ratio	Lower	Upper
180	100		
182	97.8	47.6	142.9
145	33.8	15.4	46.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019073.D
Acq On : 15 Aug 2024 18:37
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 04:57:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.695	168	123470	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.603	114	199617	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	172380	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	85159	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.049	65	25761	20.814	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	41.620%#		
35) Dibromofluoromethane	7.616	113	26361	20.197	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	40.400%#		
50) Toluene-d8	10.103	98	95533	20.339	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	40.680%#		
62) 4-Bromofluorobenzene	12.401	95	31705	19.801	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	39.600%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	20127	22.218	ug/l	98
3) Chloromethane	2.062	50	33074	20.256	ug/l	93
4) Vinyl Chloride	2.196	62	41534	20.593	ug/l	98
5) Bromomethane	2.574	94	28003	19.084	ug/l	96
6) Chloroethane	2.720	64	25991	18.990	ug/l	99
7) Trichlorofluoromethane	3.043	101	63635	20.869	ug/l	92
8) Diethyl Ether	3.446	74	13284	20.183	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.799	101	26987	19.908	ug/l	95
10) Methyl Iodide	3.988	142	26721	20.110	ug/l	94
11) Tert butyl alcohol	4.842	59	14706	117.467	ug/l	99
12) 1,1-Dichloroethene	3.769	96	23992	19.480	ug/l	93
13) Acrolein	3.635	56	11556	113.563	ug/l	97
14) Allyl chloride	4.366	41	31310	19.121	ug/l	89
15) Acrylonitrile	5.043	53	27860	103.448	ug/l	97
16) Acetone	3.860	43	22447	97.794	ug/l	89
17) Carbon Disulfide	4.086	76	67620	19.466	ug/l	100
18) Methyl Acetate	4.366	43	14222	20.188	ug/l	96
19) Methyl tert-butyl Ether	5.098	73	60297	20.194	ug/l	99
20) Methylene Chloride	4.598	84	35467	18.422	ug/l	93
21) trans-1,2-Dichloroethene	5.092	96	26772	19.457	ug/l	96
22) Diisopropyl ether	6.000	45	74742	19.939	ug/l #	89
23) Vinyl Acetate	5.939	43	296382	99.865	ug/l	99
24) 1,1-Dichloroethane	5.897	63	45380	19.795	ug/l	98
25) 2-Butanone	6.878	43	36863	99.722	ug/l	99
26) 2,2-Dichloropropane	6.866	77	36012	19.399	ug/l	100
27) cis-1,2-Dichloroethene	6.872	96	32367	19.988	ug/l	99
28) Bromochloromethane	7.232	49	19925	20.720	ug/l	97
29) Tetrahydrofuran	7.250	42	24805	104.387	ug/l	94
30) Chloroform	7.402	83	51810	20.282	ug/l	98
31) Cyclohexane	7.683	56	38894	19.345	ug/l	94
32) 1,1,1-Trichloroethane	7.597	97	44810	19.961	ug/l	98
36) 1,1-Dichloropropene	7.823	75	35021	19.540	ug/l	100
37) Ethyl Acetate	6.963	43	15209	19.153	ug/l #	95
38) Carbon Tetrachloride	7.805	117	40890	19.686	ug/l	96
39) Methylcyclohexane	9.097	83	44673	19.423	ug/l	97
40) Benzene	8.067	78	109503	19.921	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019073.D
Acq On : 15 Aug 2024 18:37
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 16 04:57:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	10419m	25.376	ug/l		
42) 1,2-Dichloroethane	8.146	62	28902	19.471	ug/l		100
43) Isopropyl Acetate	8.189	43	33033	20.569	ug/l	#	84
44) Trichloroethene	8.853	130	30592	19.945	ug/l		100
45) 1,2-Dichloropropane	9.134	63	24874	20.310	ug/l		100
46) Dibromomethane	9.219	93	15914	20.034	ug/l		97
47) Bromodichloromethane	9.414	83	39508	20.273	ug/l		98
48) Methyl methacrylate	9.213	41	14220	19.869	ug/l	#	90
49) 1,4-Dioxane	9.213	88	3484	362.071	ug/l	#	90
51) 4-Methyl-2-Pentanone	9.993	43	83784	98.297	ug/l		94
52) Toluene	10.164	92	70310	19.486	ug/l		97
53) t-1,3-Dichloropropene	10.390	75	31464	19.463	ug/l		98
54) cis-1,3-Dichloropropene	9.847	75	38163	19.629	ug/l	#	89
55) 1,1,2-Trichloroethane	10.566	97	21232	20.763	ug/l		95
56) Ethyl methacrylate	10.432	69	26560	19.843	ug/l	#	88
57) 1,3-Dichloropropane	10.713	76	33810	20.282	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.701	63	64332	101.315	ug/l		100
59) 2-Hexanone	10.755	43	58823	100.451	ug/l		89
60) Dibromochloromethane	10.902	129	28149	20.211	ug/l		95
61) 1,2-Dibromoethane	11.011	107	20125	20.362	ug/l		99
64) Tetrachloroethene	10.640	164	30135	20.000	ug/l		94
65) Chlorobenzene	11.438	112	77941	19.636	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.511	131	27457	19.670	ug/l		99
67) Ethyl Benzene	11.517	91	133275	19.345	ug/l		95
68) m/p-Xylenes	11.627	106	107159	39.201	ug/l		98
69) o-Xylene	11.950	106	49270	19.463	ug/l		97
70) Styrene	11.969	104	85087	19.710	ug/l		98
71) Bromoform	12.127	173	15562	19.503	ug/l	#	98
73) Isopropylbenzene	12.249	105	128550	19.695	ug/l		99
74) N-amyl acetate	12.072	43	28592	20.089	ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.505	83	23149	19.922	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	16184m	20.009	ug/l		
77) Bromobenzene	12.529	156	31230	19.923	ug/l		96
78) n-propylbenzene	12.590	91	153094	19.621	ug/l		100
79) 2-Chlorotoluene	12.676	91	85953	19.649	ug/l		97
80) 1,3,5-Trimethylbenzene	12.737	105	106288	19.989	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	6624	19.479	ug/l		87
82) 4-Chlorotoluene	12.773	91	89551	19.677	ug/l		97
83) tert-Butylbenzene	12.993	119	98562	20.072	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	106207	20.041	ug/l		100
85) sec-Butylbenzene	13.176	105	143188	20.010	ug/l		99
86) p-Isopropyltoluene	13.292	119	116101	19.753	ug/l		96
87) 1,3-Dichlorobenzene	13.285	146	59624	19.287	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	61144	19.898	ug/l		99
89) n-Butylbenzene	13.615	91	109323	20.401	ug/l		99
90) Hexachloroethane	13.877	117	23610	20.380	ug/l		95
91) 1,2-Dichlorobenzene	13.657	146	54747	20.136	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	3558	20.814	ug/l		91
93) 1,2,4-Trichlorobenzene	14.919	180	30630	19.977	ug/l		97
94) Hexachlorobutadiene	15.023	225	14614	18.299	ug/l		99
95) Naphthalene	15.145	128	50554	18.474	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	24362	18.839	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019073.D
Acq On : 15 Aug 2024 18:37
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 04:57:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

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

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

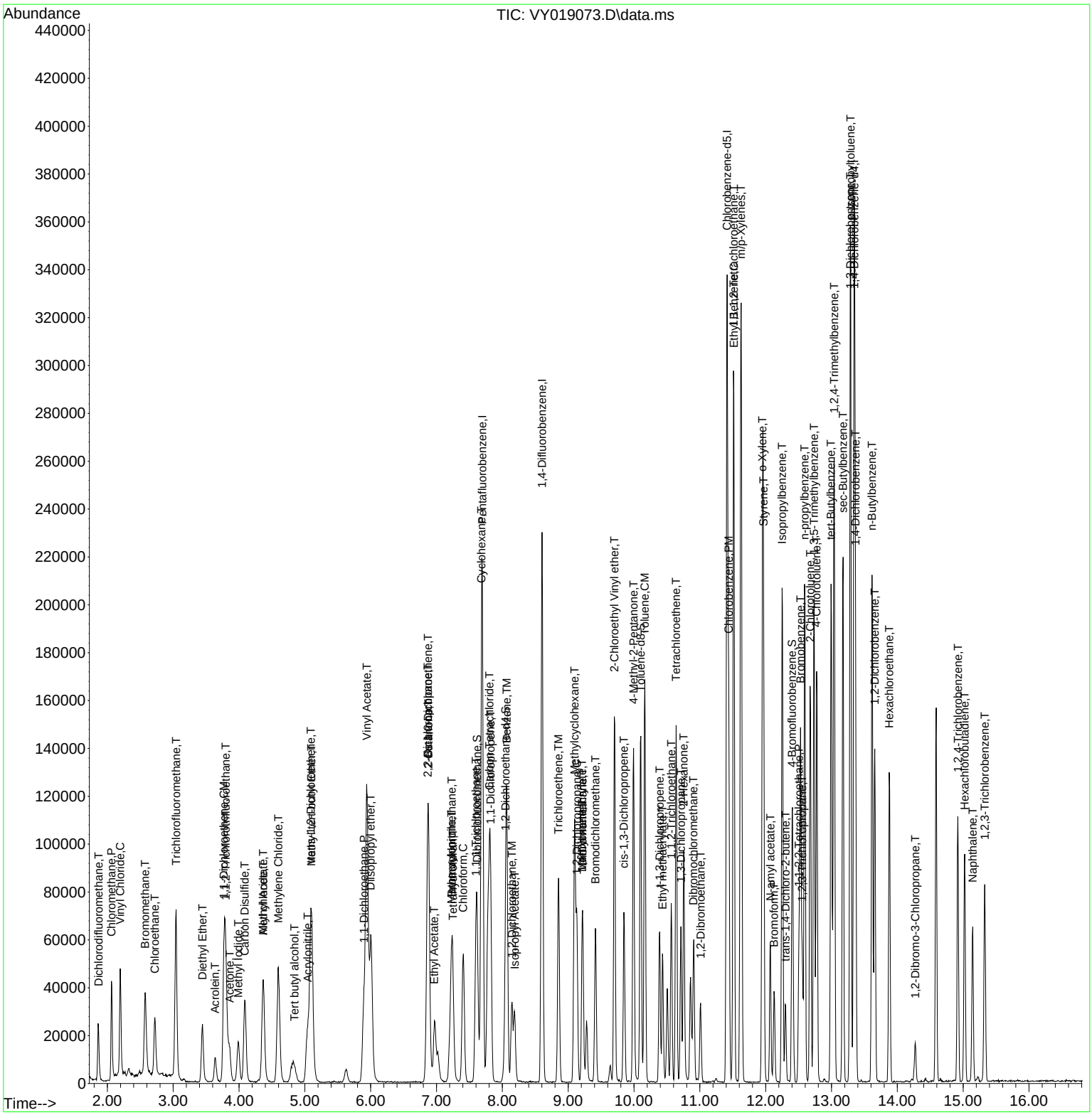
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019073.D
Acq On : 15 Aug 2024 18:37
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

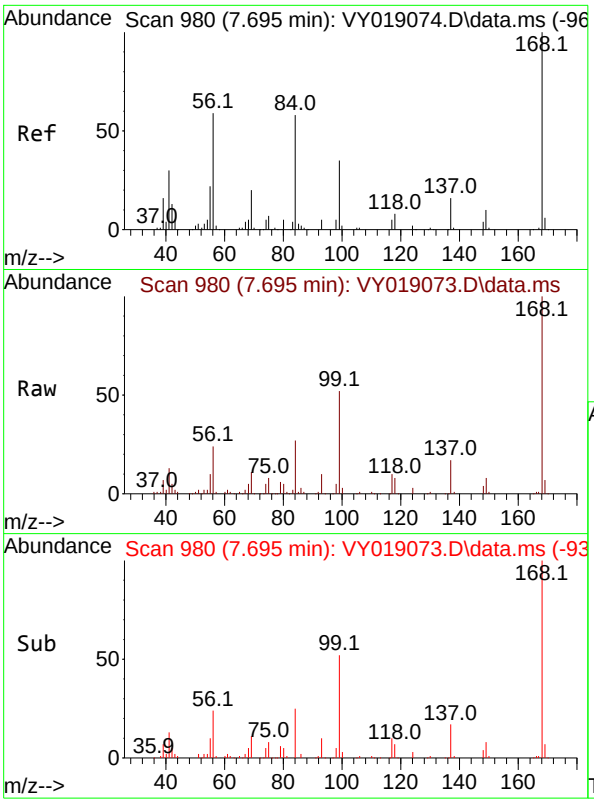
Quant Time: Aug 16 04:57:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

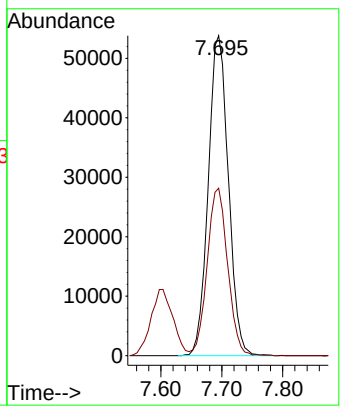




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:168 Resp: 12347

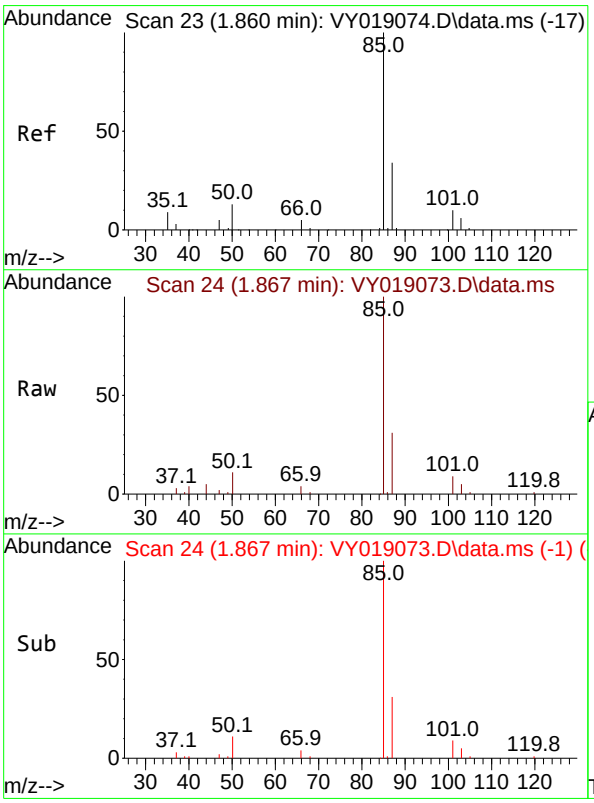
Ion	Ratio	Lower	Upper
168	100		
99	52.4	39.1	58.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

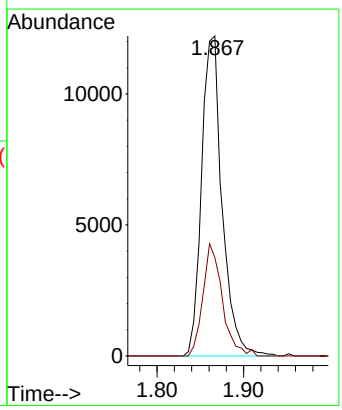
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

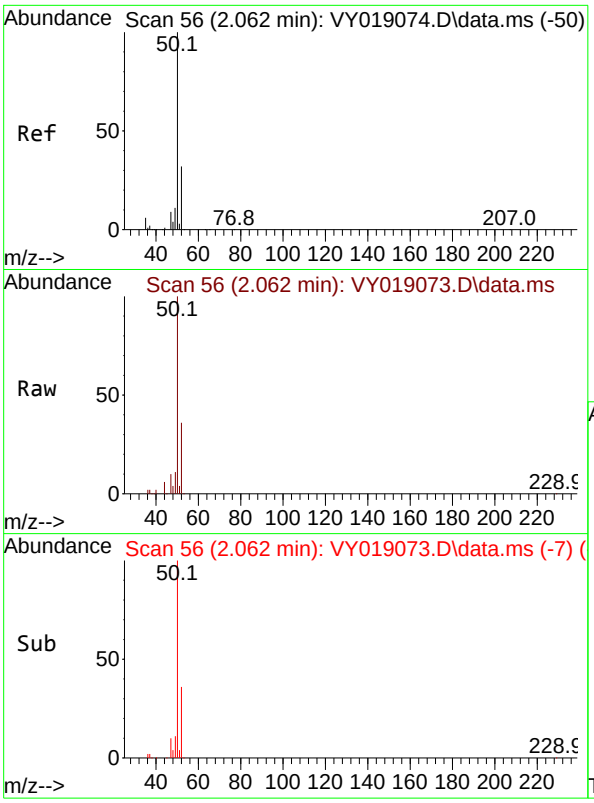


#2
Dichlorodifluoromethane
Concen: 22.218 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 85 Resp: 20127

Ion	Ratio	Lower	Upper
85	100		
87	30.7	16.0	48.0

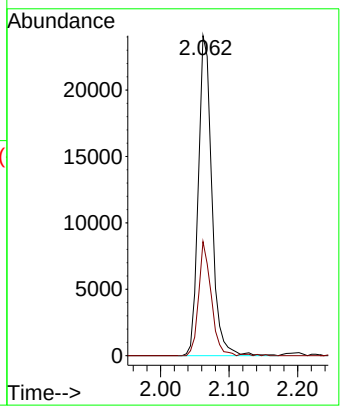




#3
Chloromethane
Concen: 20.256 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 50 Resp: 3307

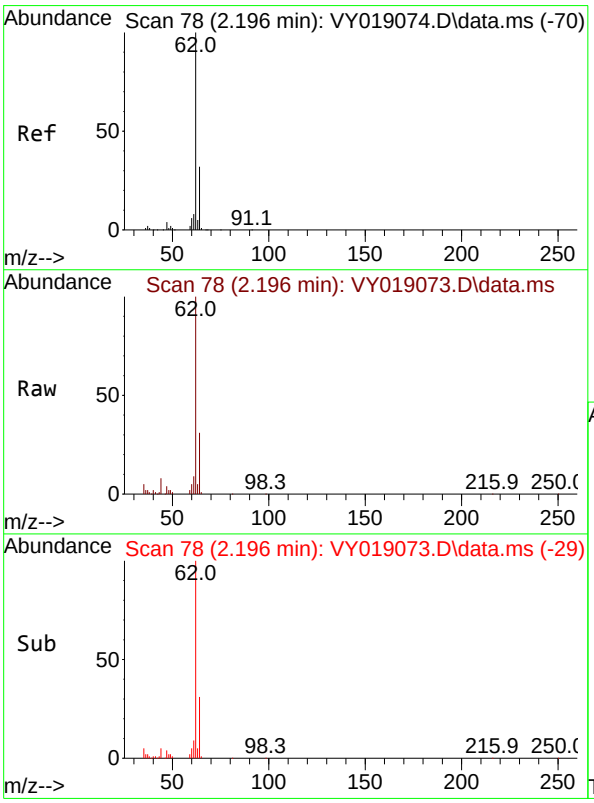
Ion	Ratio	Lower	Upper
50	100		
52	35.7	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

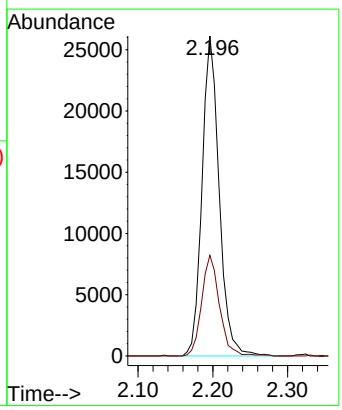
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

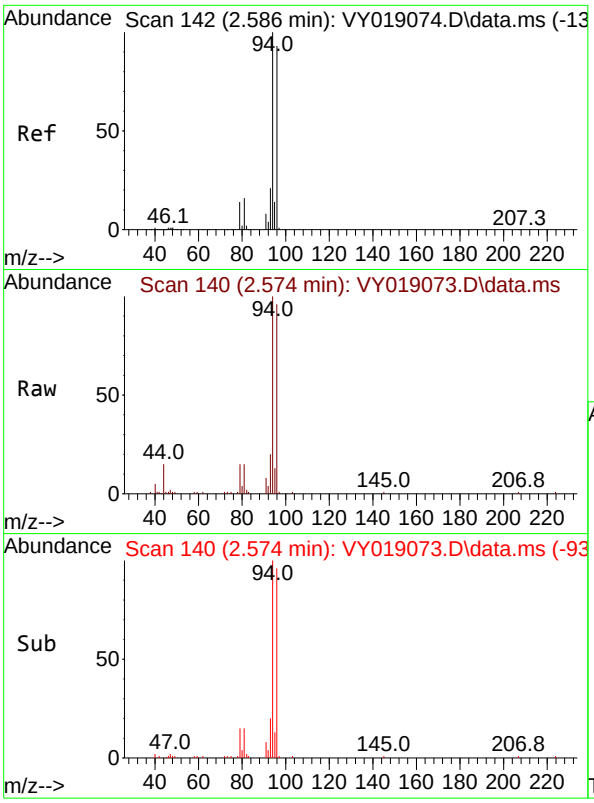


#4
Vinyl Chloride
Concen: 20.593 ug/l
RT: 2.196 min Scan# 78
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 62 Resp: 41534

Ion	Ratio	Lower	Upper
62	100		
64	31.5	26.1	39.1





#5
Bromomethane
Concen: 19.084 ug/l
RT: 2.574 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

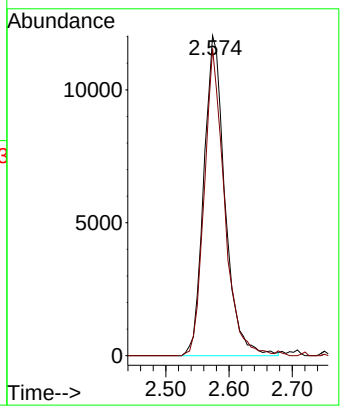
Tgt Ion: 94 Resp: 2800

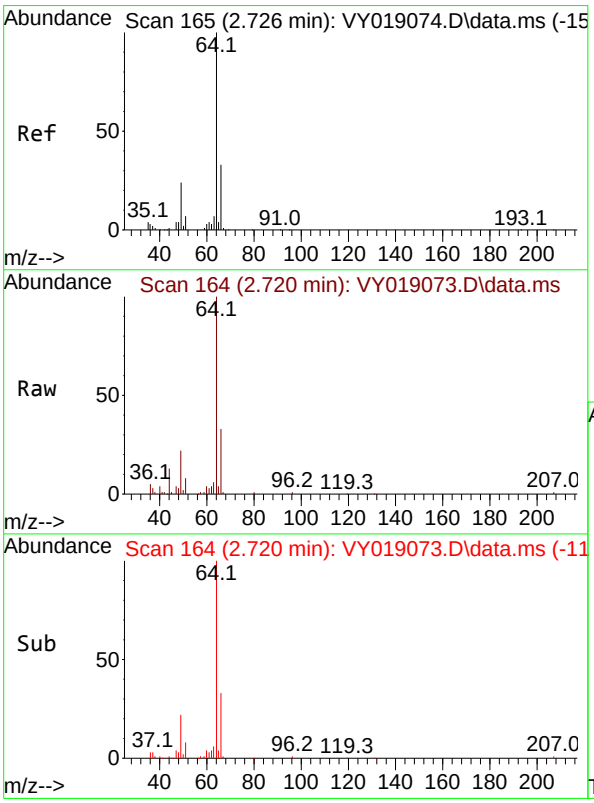
Ion	Ratio	Lower	Upper
94	100		
96	96.0	74.1	111.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

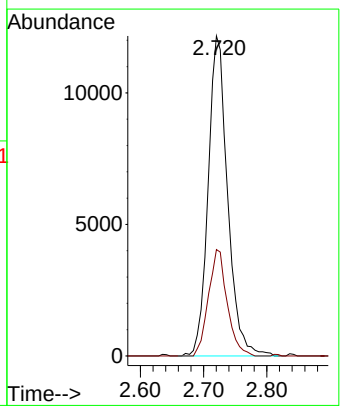


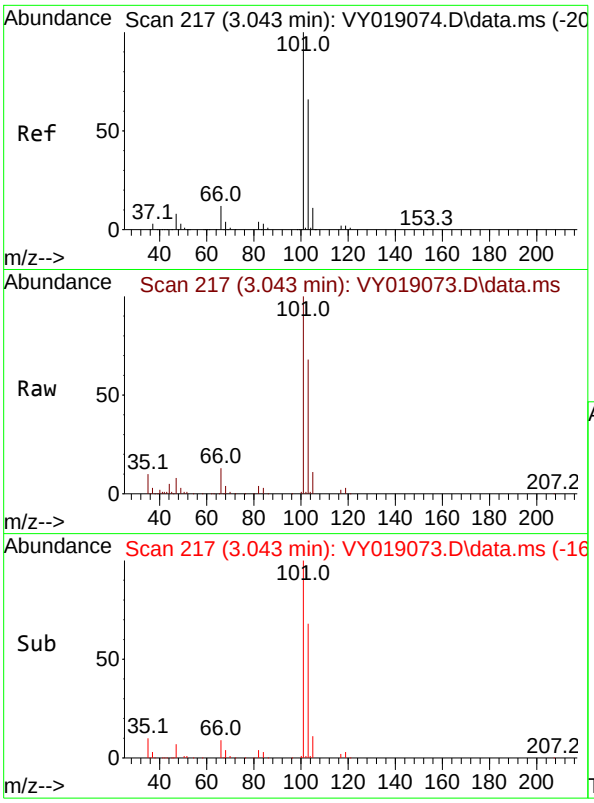


#6
Chloroethane
Concen: 18.990 ug/l
RT: 2.720 min Scan# 164
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 64 Resp: 25991

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.1	39.1

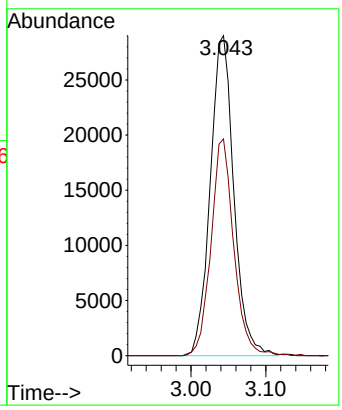




#7
Trichlorofluoromethane
Concen: 20.869 ug/l
RT: 3.043 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:101 Resp: 6363

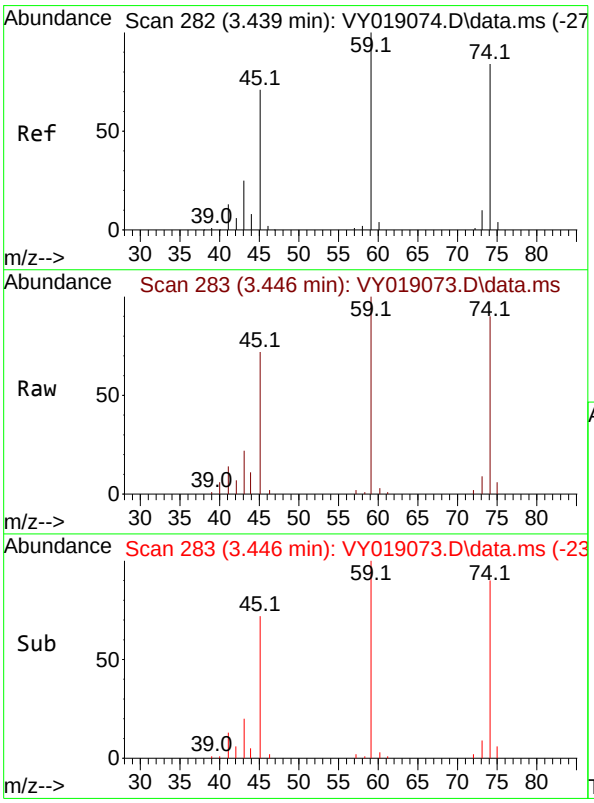
Ion	Ratio	Lower	Upper
101	100		
103	67.7	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

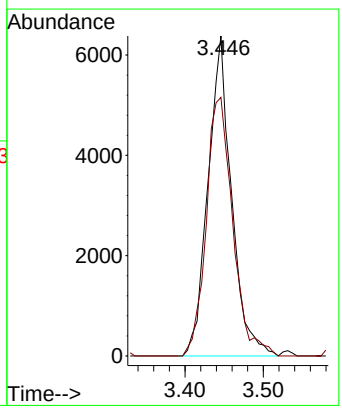
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

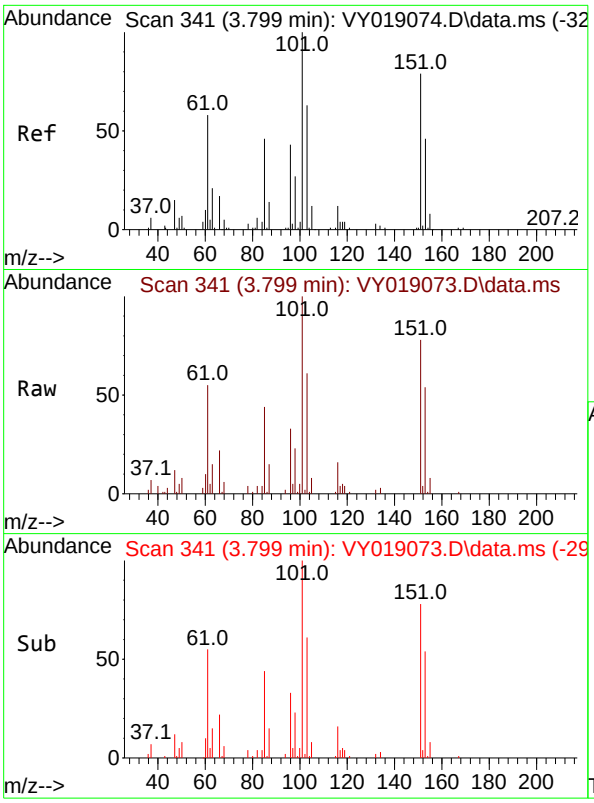


#8
Diethyl Ether
Concen: 20.183 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 74 Resp: 13284

Ion	Ratio	Lower	Upper
74	100		
45	91.7	41.3	124.1

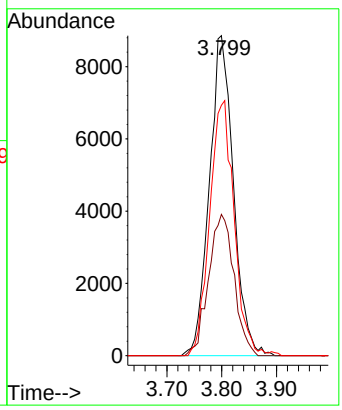




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.908 ug/l
RT: 3.799 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:101 Resp: 2698

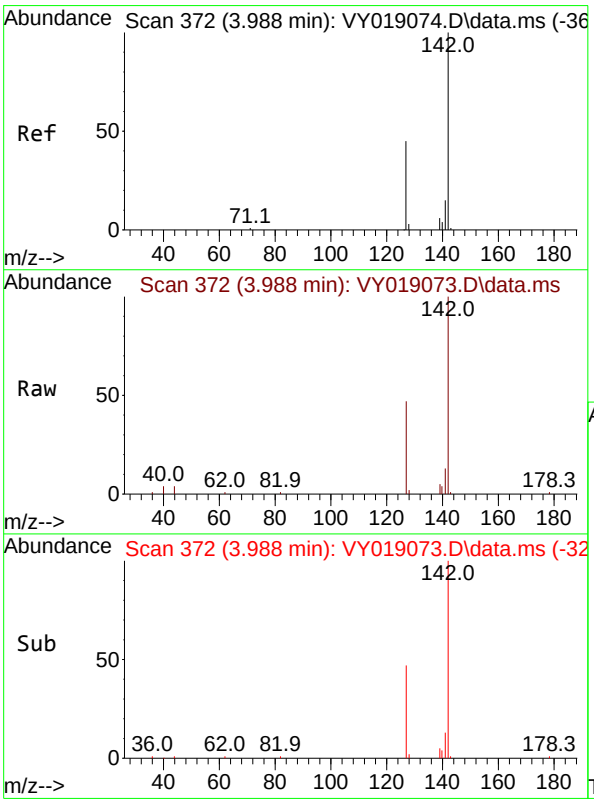
Ion	Ratio	Lower	Upper
101	100		
85	46.7	34.5	51.7
151	80.9	61.7	92.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

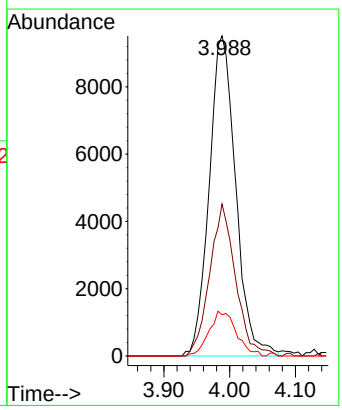
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

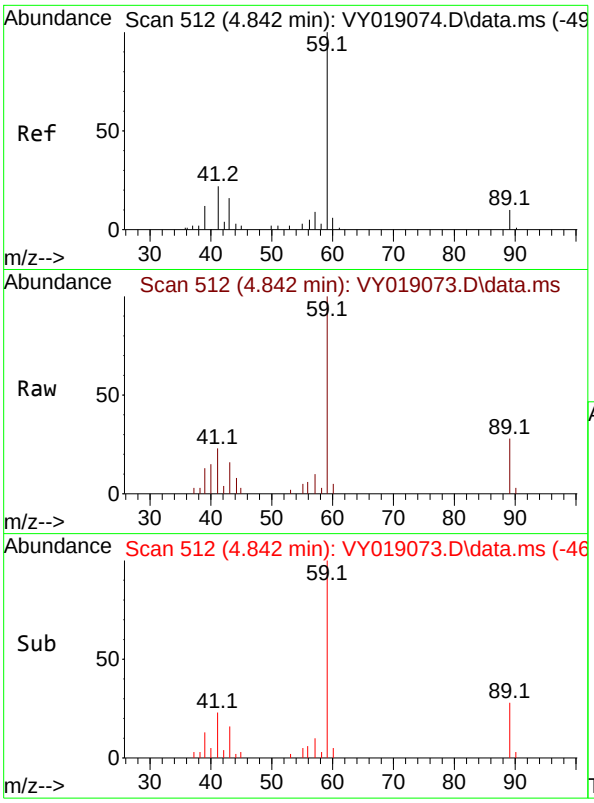


#10
Methyl Iodide
Concen: 20.110 ug/l
RT: 3.988 min Scan# 372
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:142 Resp: 26721

Ion	Ratio	Lower	Upper
142	100		
127	46.2	32.8	49.2
141	14.3	11.4	17.2

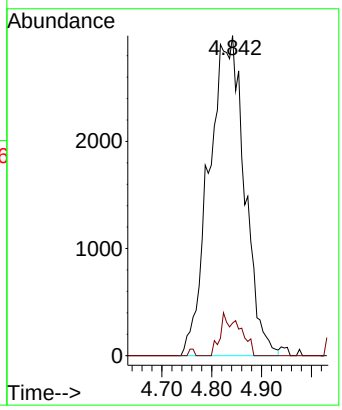




#11
Tert butyl alcohol
Concen: 117.467 ug/l
RT: 4.842 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 59 Resp: 1470

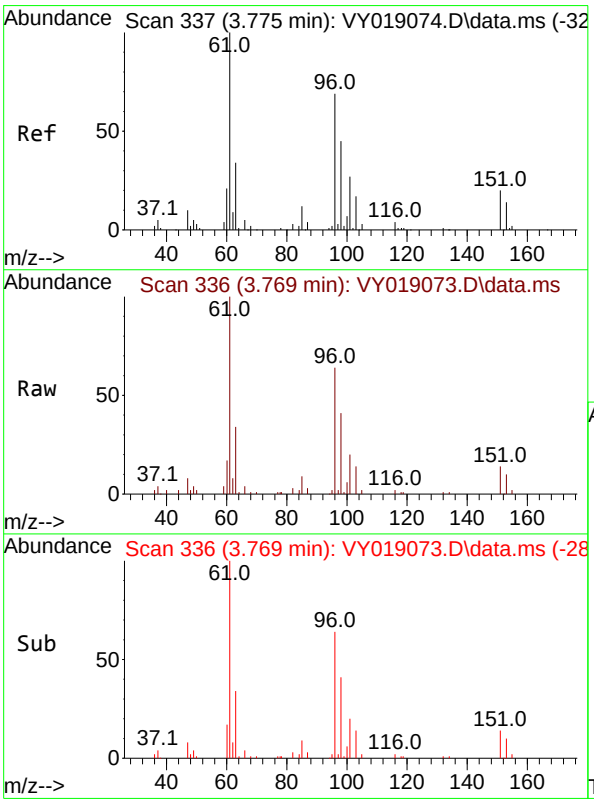
Ion	Ratio	Lower	Upper
59	100		
57	3.5	3.0	4.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

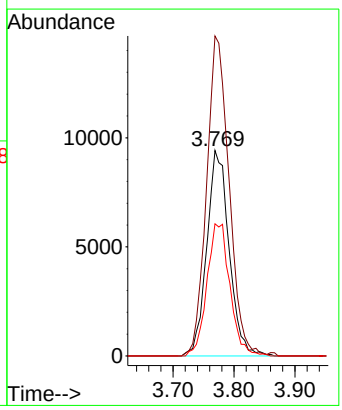
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

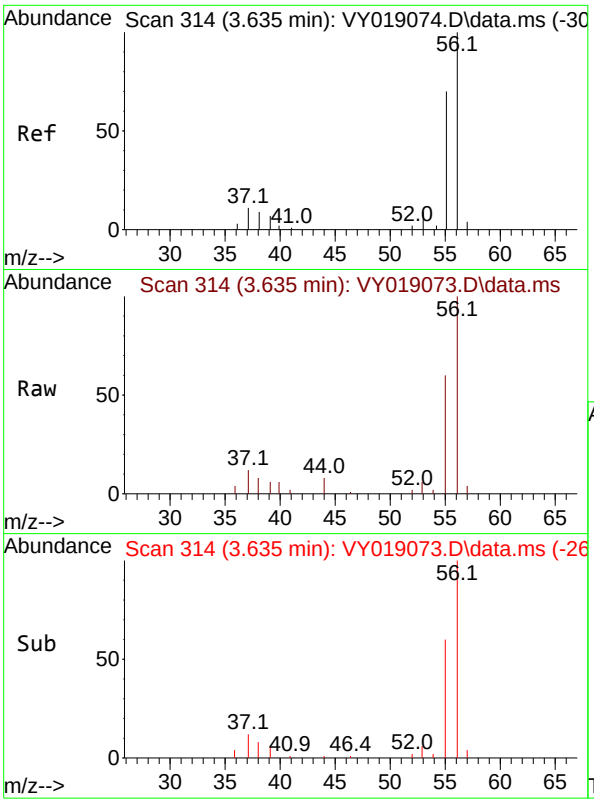


#12
1,1-Dichloroethene
Concen: 19.480 ug/l
RT: 3.769 min Scan# 336
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 96 Resp: 23992

Ion	Ratio	Lower	Upper
96	100		
61	155.7	114.6	171.8
98	64.3	50.8	76.2

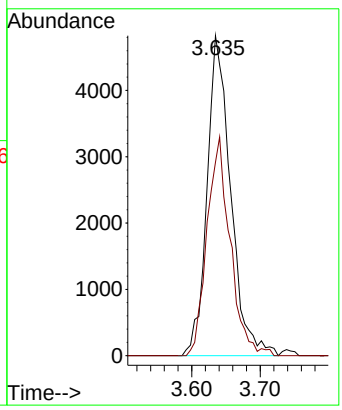




#13
Acrolein
Concen: 113.563 ug/l
RT: 3.635 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 56 Resp: 1155

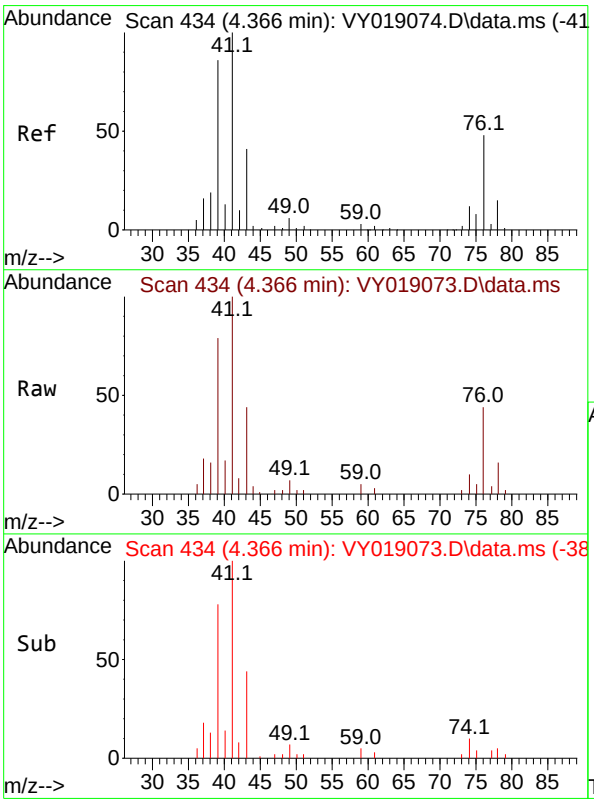
Ion	Ratio	Lower	Upper
56	100		
55	67.1	55.7	83.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

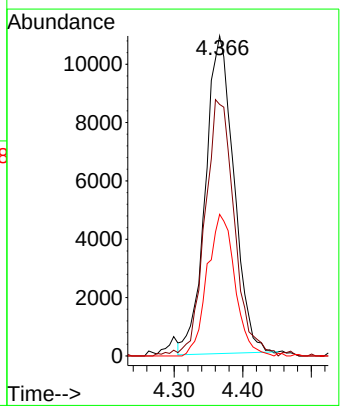
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

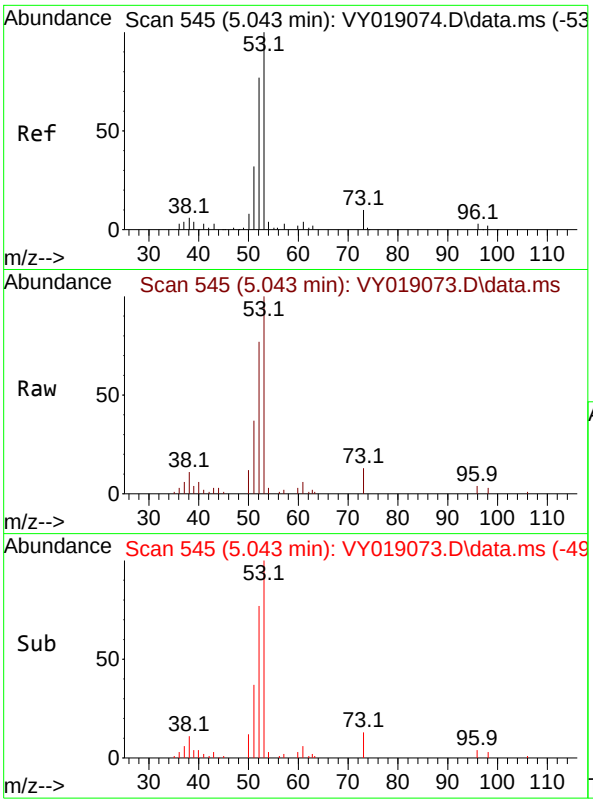


#14
Allyl chloride
Concen: 19.121 ug/l
RT: 4.366 min Scan# 434
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 41 Resp: 31310

Ion	Ratio	Lower	Upper
41	100		
39	83.8	58.3	87.5
76	43.5	39.0	58.6

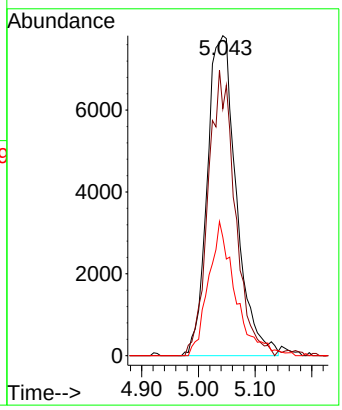




#15
Acrylonitrile
Concen: 103.448 ug/l
RT: 5.043 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 53 Resp: 2786

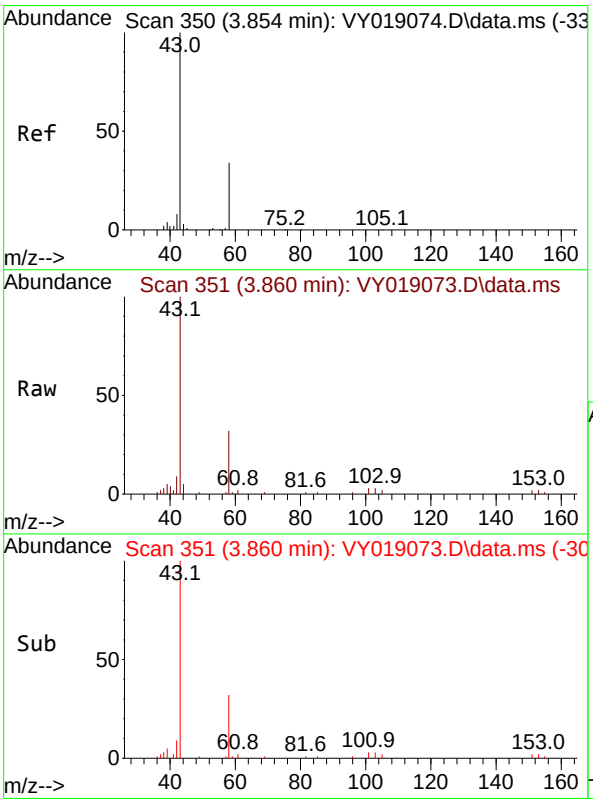
Ion	Ratio	Lower	Upper
53	100		
52	82.5	64.7	97.1
51	39.0	28.4	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

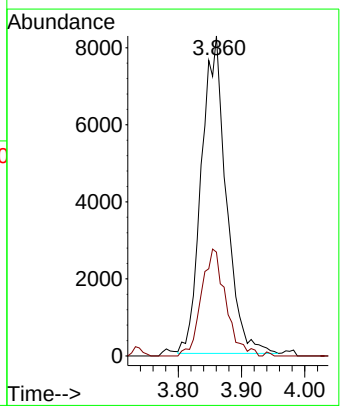
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

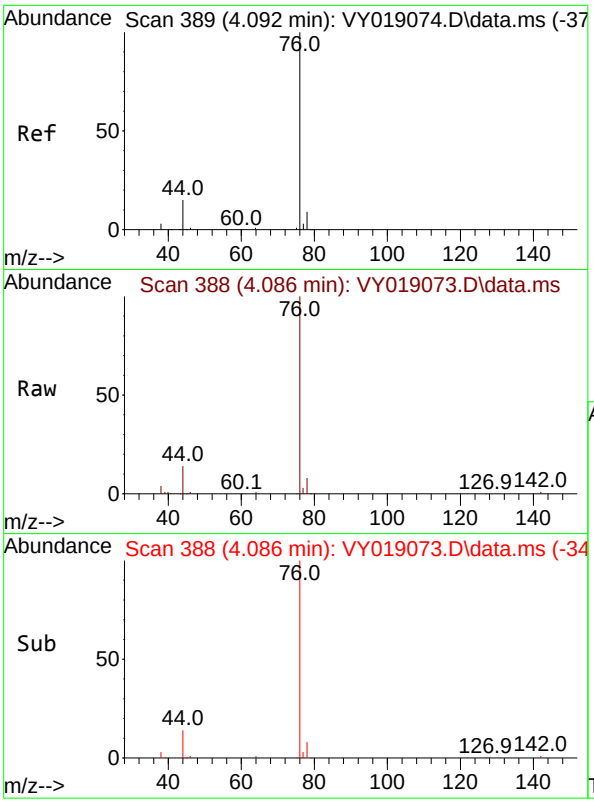


#16
Acetone
Concen: 97.794 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 43 Resp: 22447

Ion	Ratio	Lower	Upper
43	100		
58	32.7	31.7	47.5

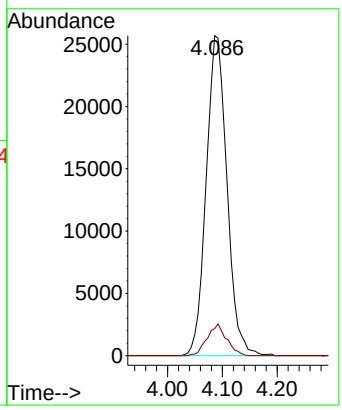




#17
Carbon Disulfide
Concen: 19.466 ug/l
RT: 4.086 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 76 Resp: 6762

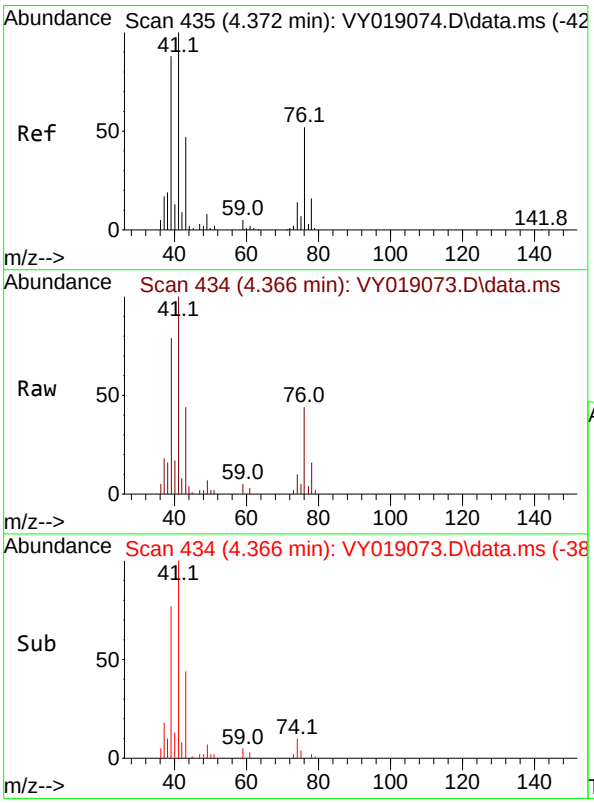
Ion	Ratio	Lower	Upper
76	100		
78	8.4	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

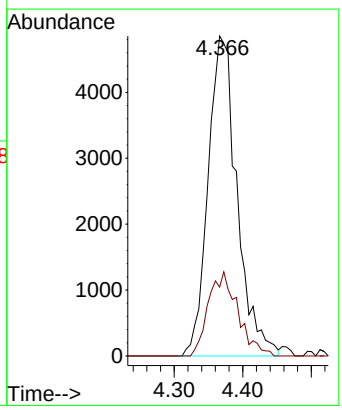
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

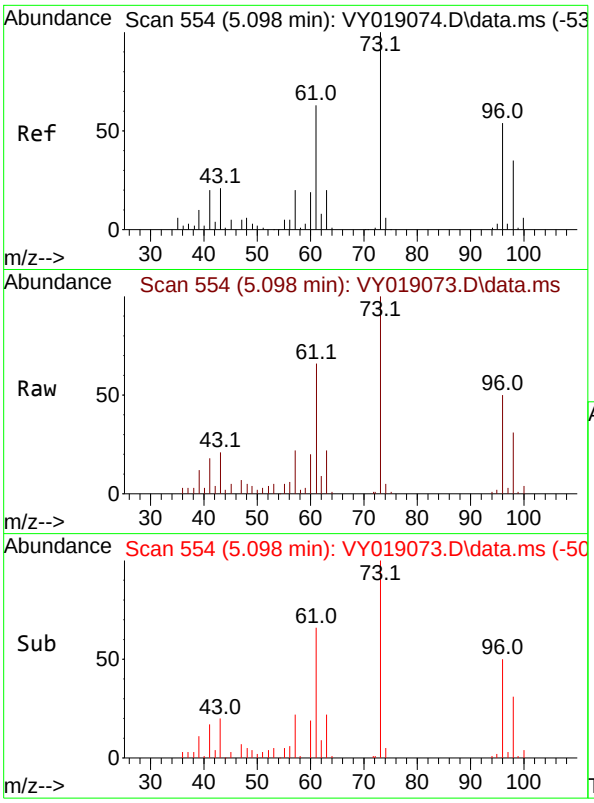


#18
Methyl Acetate
Concen: 20.188 ug/l
RT: 4.366 min Scan# 434
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 43 Resp: 14222

Ion	Ratio	Lower	Upper
43	100		
74	26.8	23.3	34.9





#19
Methyl tert-butyl Ether
Concen: 20.194 ug/l
RT: 5.098 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

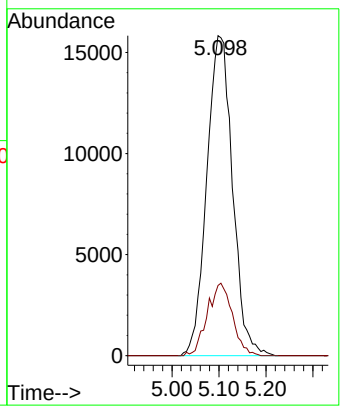
Tgt Ion: 73 Resp: 6029

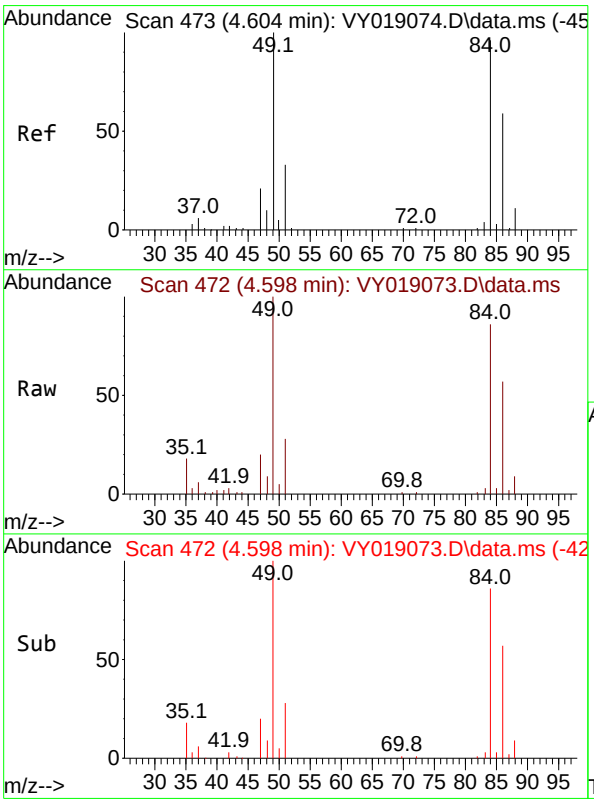
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.3	25.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

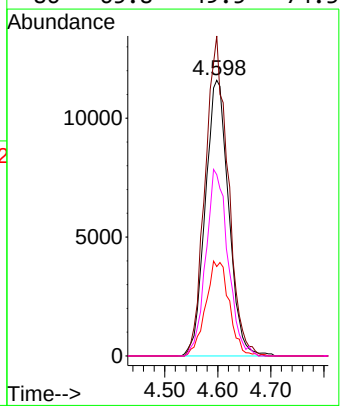


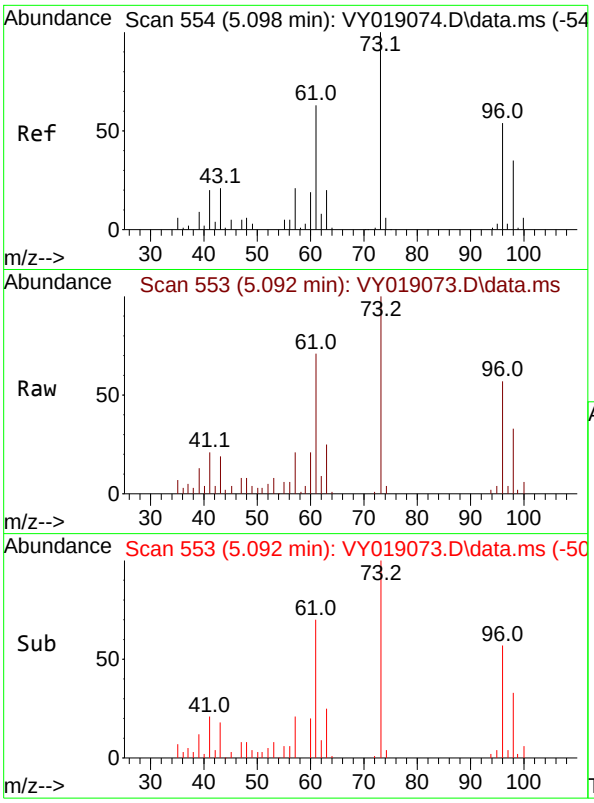


#20
Methylene Chloride
Concen: 18.422 ug/l
RT: 4.598 min Scan# 472
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 84 Resp: 35467

Ion	Ratio	Lower	Upper
84	100		
49	116.0	84.4	126.6
51	32.4	26.0	39.0
86	65.8	49.5	74.3

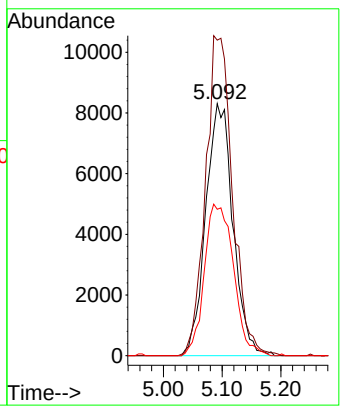




#21
trans-1,2-Dichloroethene
Concen: 19.457 ug/l
RT: 5.092 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 96 Resp: 2677

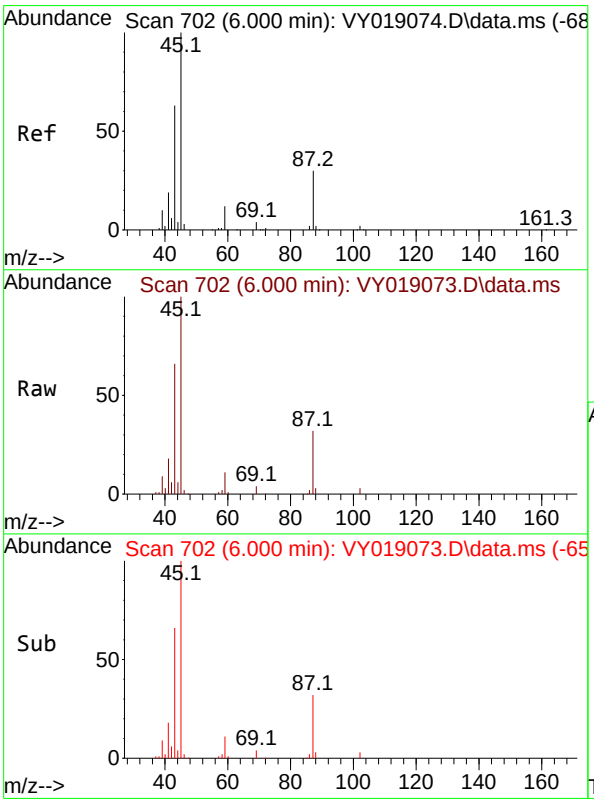
Ion	Ratio	Lower	Upper
96	100		
61	125.2	97.5	146.3
98	58.1	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

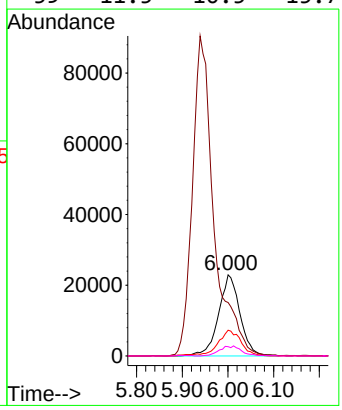
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

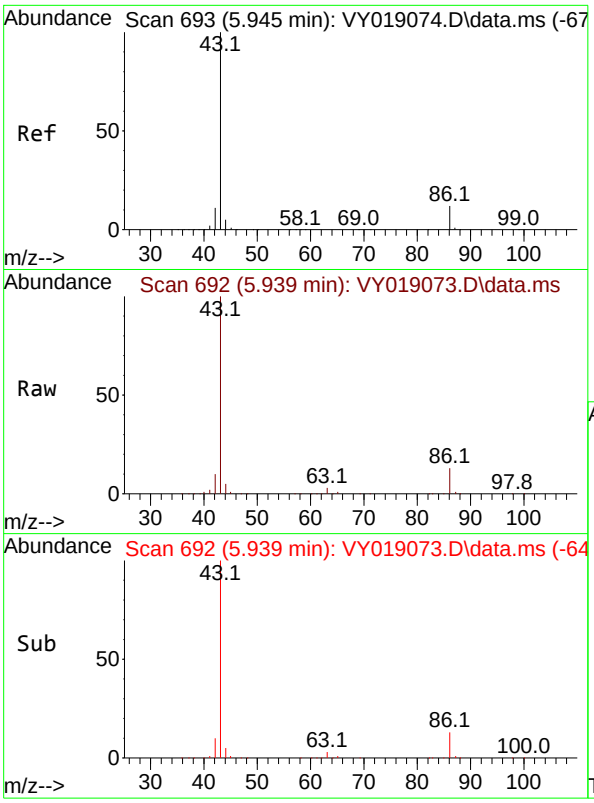


#22
Diisopropyl ether
Concen: 19.939 ug/l
RT: 6.000 min Scan# 702
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 45 Resp: 74742

Ion	Ratio	Lower	Upper
45	100		
43	65.5	42.2	63.2#
87	31.7	25.0	37.6
59	11.5	10.5	15.7





#23
Vinyl Acetate
Concen: 99.865 ug/l
RT: 5.939 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

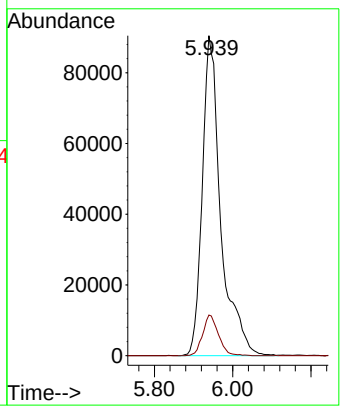
Tgt Ion: 43 Resp: 29638

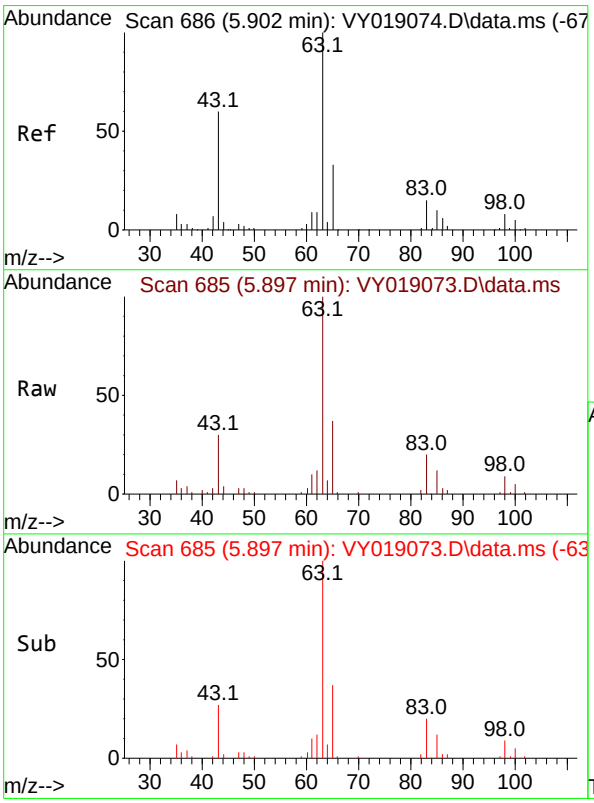
Ion	Ratio	Lower	Upper
43	100		
86	12.7	10.6	16.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

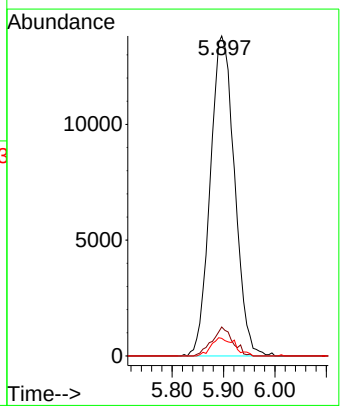


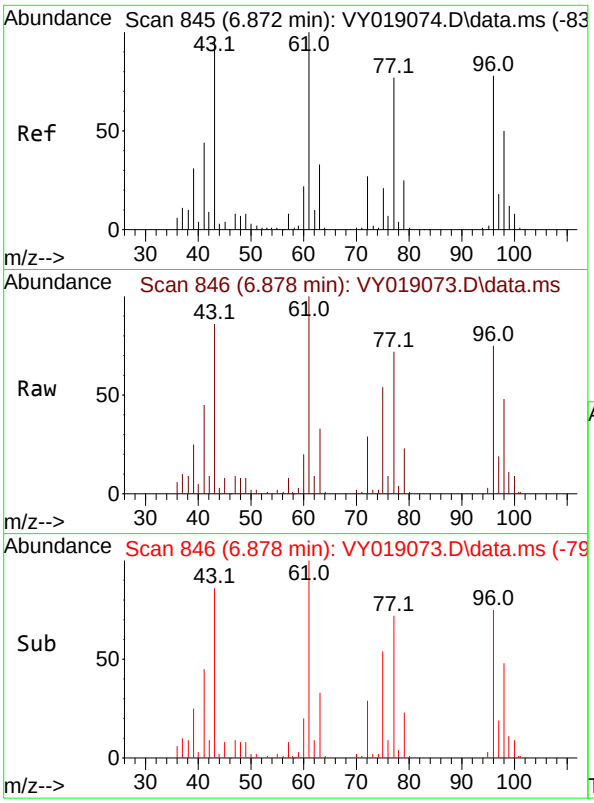


#24
1,1-Dichloroethane
Concen: 19.795 ug/l
RT: 5.897 min Scan# 685
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 63 Resp: 45380

Ion	Ratio	Lower	Upper
63	100		
98	9.0	4.0	12.2
100	5.5	2.6	8.0





#25
2-Butanone
Concen: 99.722 ug/l
RT: 6.878 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

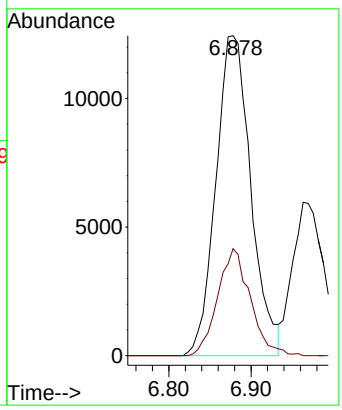
Tgt Ion: 43 Resp: 3686

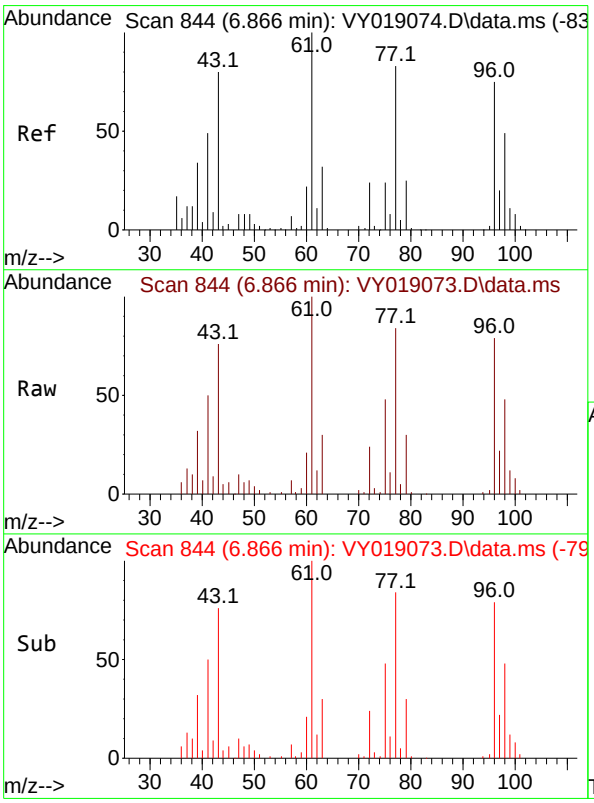
Ion	Ratio	Lower	Upper
43	100		
72	33.5	27.3	40.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

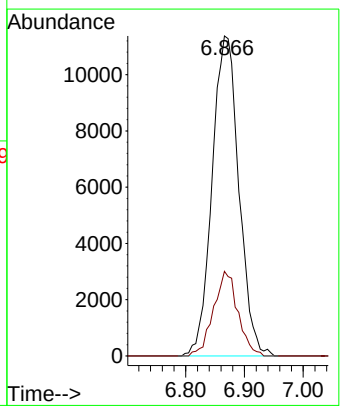


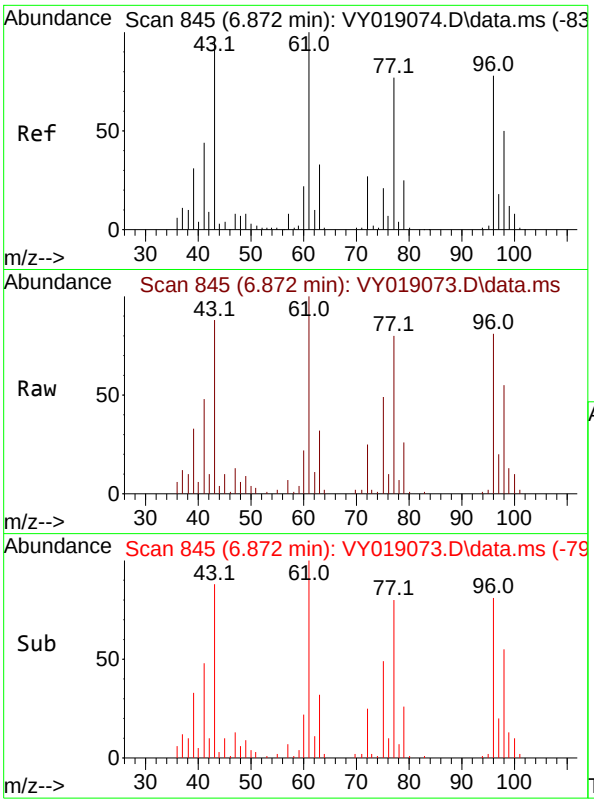


#26
2,2-Dichloropropane
Concen: 19.399 ug/l
RT: 6.866 min Scan# 844
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 77 Resp: 36012

Ion	Ratio	Lower	Upper
77	100		
97	24.0	12.0	36.1

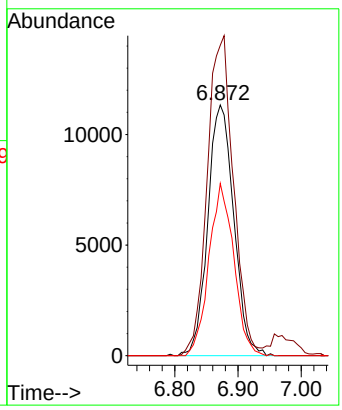




#27
cis-1,2-Dichloroethene
Concen: 19.988 ug/l
RT: 6.872 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 96 Resp: 3236

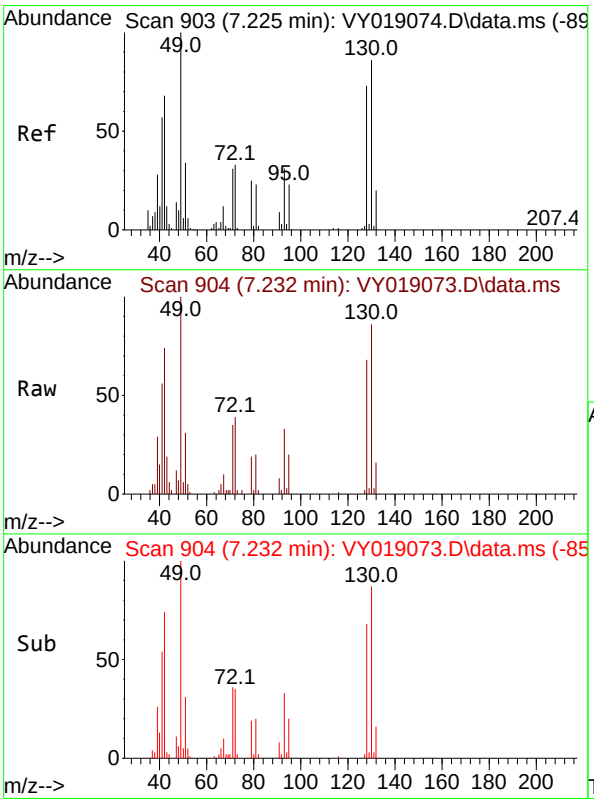
Ion	Ratio	Lower	Upper
96	100		
61	129.4	0.0	256.2
98	65.6	0.0	130.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

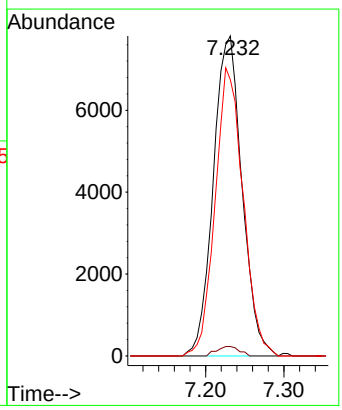
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

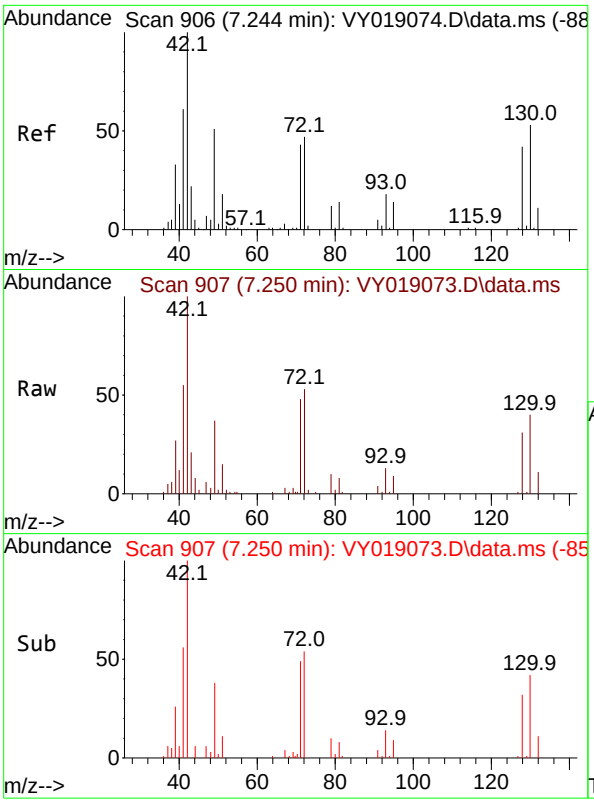


#28
Bromochloromethane
Concen: 20.720 ug/l
RT: 7.232 min Scan# 904
Delta R.T. 0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 49 Resp: 19925

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.6
130	87.6	72.7	109.1

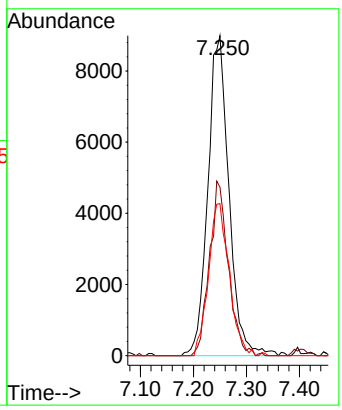




#29
Tetrahydrofuran
Concen: 104.387 ug/l
RT: 7.250 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 42 Resp: 2480

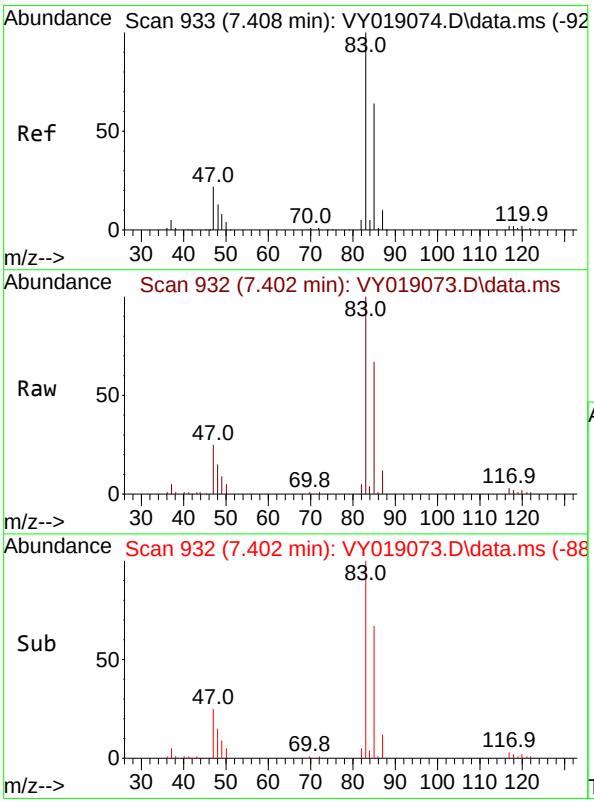
Ion	Ratio	Lower	Upper
42	100		
72	49.0	43.0	64.4
71	46.9	40.8	61.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

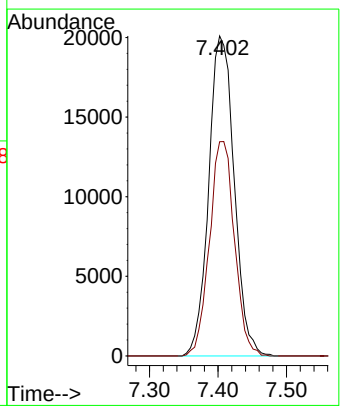
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

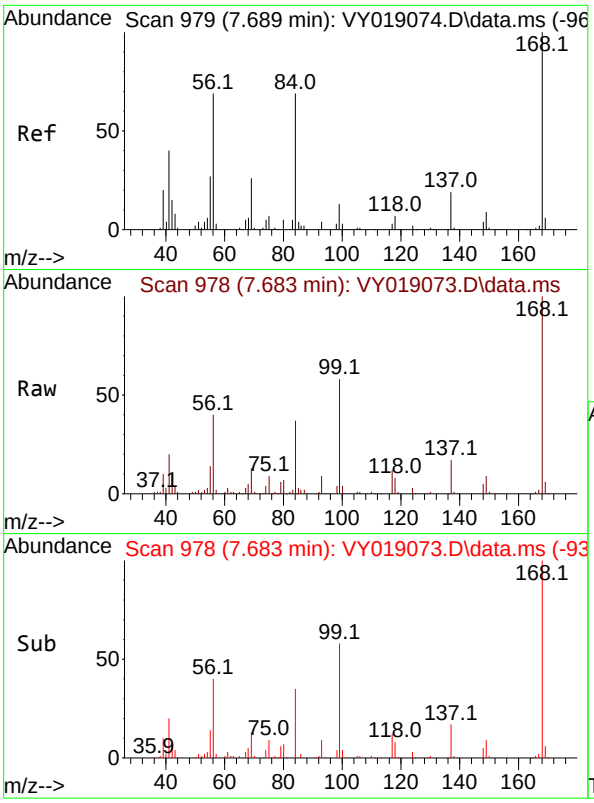


#30
Chloroform
Concen: 20.282 ug/l
RT: 7.402 min Scan# 932
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 83 Resp: 51810

Ion	Ratio	Lower	Upper
83	100		
85	67.0	52.2	78.4

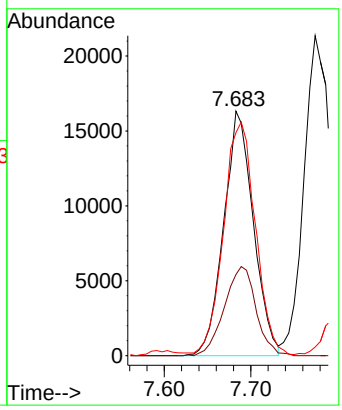




#31
Cyclohexane
Concen: 19.345 ug/l
RT: 7.683 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 56 Resp: 3889

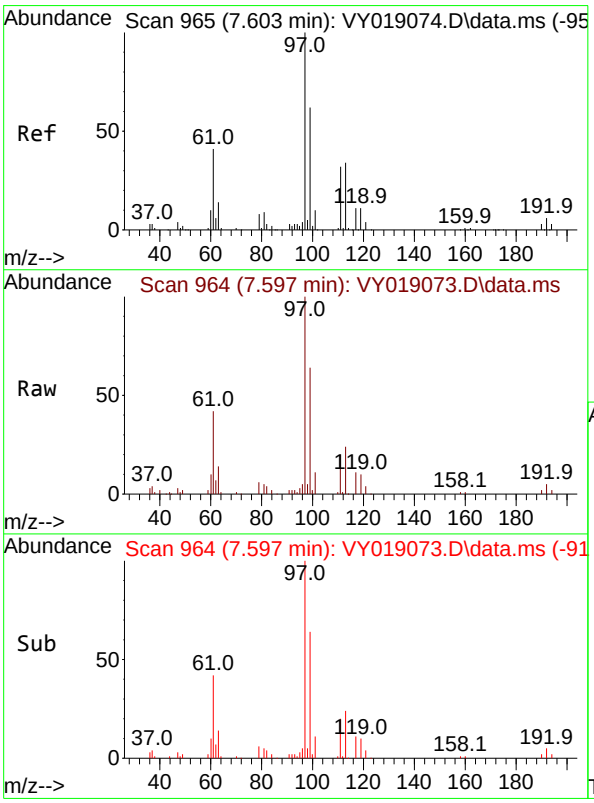
Ion	Ratio	Lower	Upper
56	100		
69	33.2	28.7	43.1
84	90.1	77.7	116.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

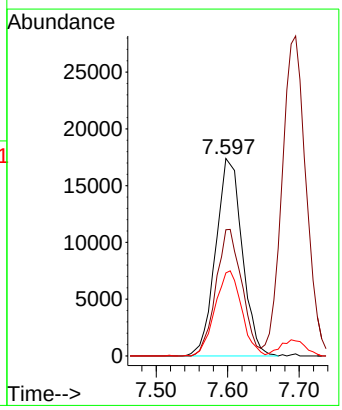
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

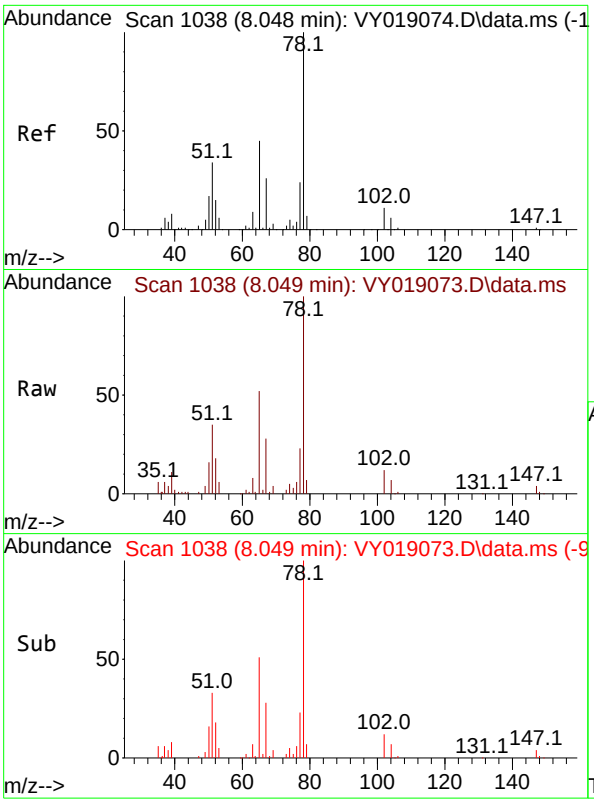


#32
1,1,1-Trichloroethane
Concen: 19.961 ug/l
RT: 7.597 min Scan# 964
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 97 Resp: 44810

Ion	Ratio	Lower	Upper
97	100		
99	62.8	50.3	75.5
61	43.3	32.6	48.8

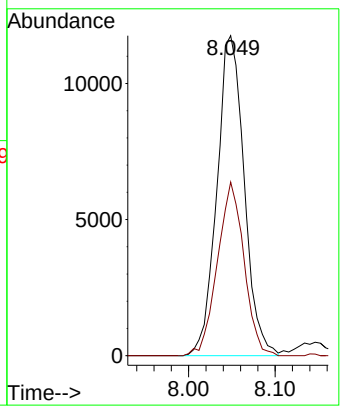




#33
1,2-Dichloroethane-d4
Concen: 20.814 ug/l
RT: 8.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 65 Resp: 2576

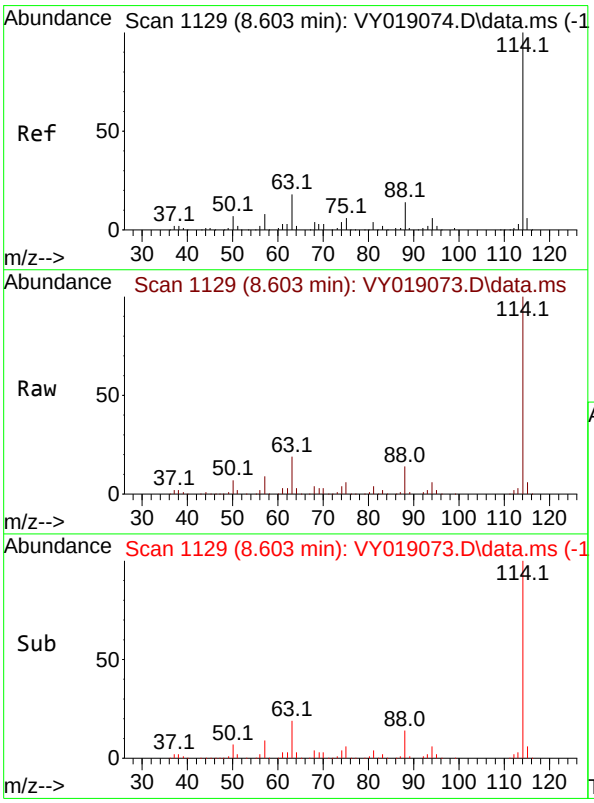
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	109.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

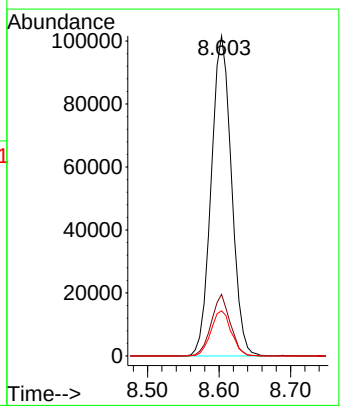
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

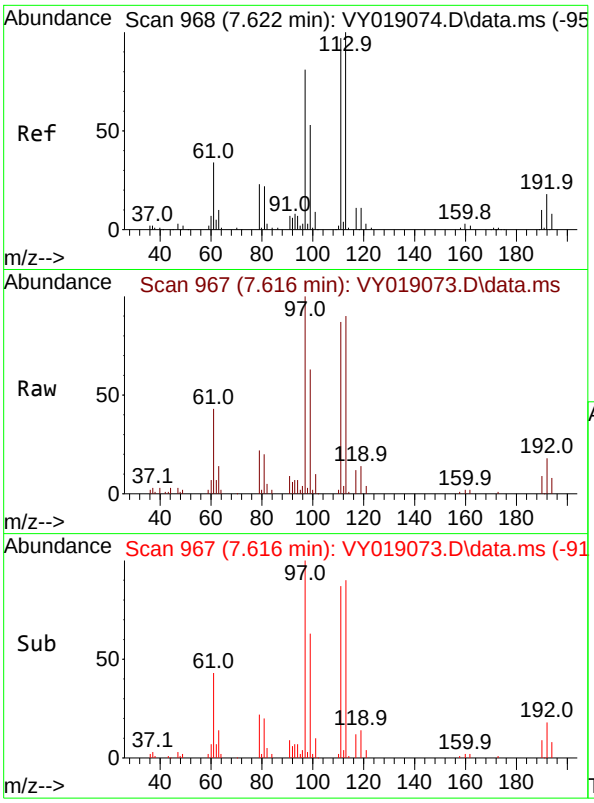


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.603 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:114 Resp: 199617

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	35.0
88	14.1	0.0	27.2

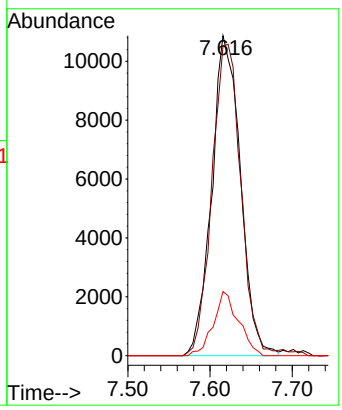




#35
Dibromofluoromethane
Concen: 20.197 ug/l
RT: 7.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:113 Resp: 2636

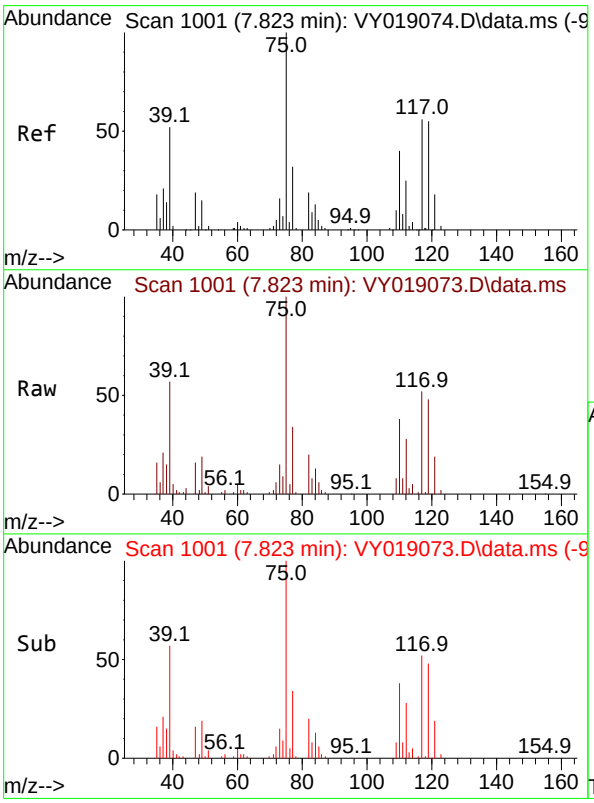
Ion	Ratio	Lower	Upper
113	100		
111	99.1	82.2	123.4
192	17.6	15.9	23.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

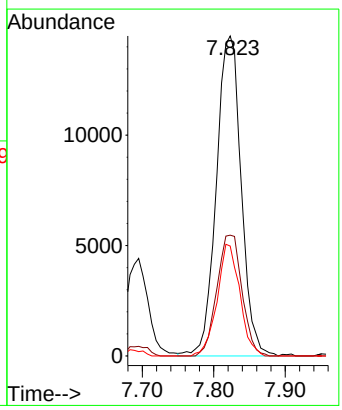
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

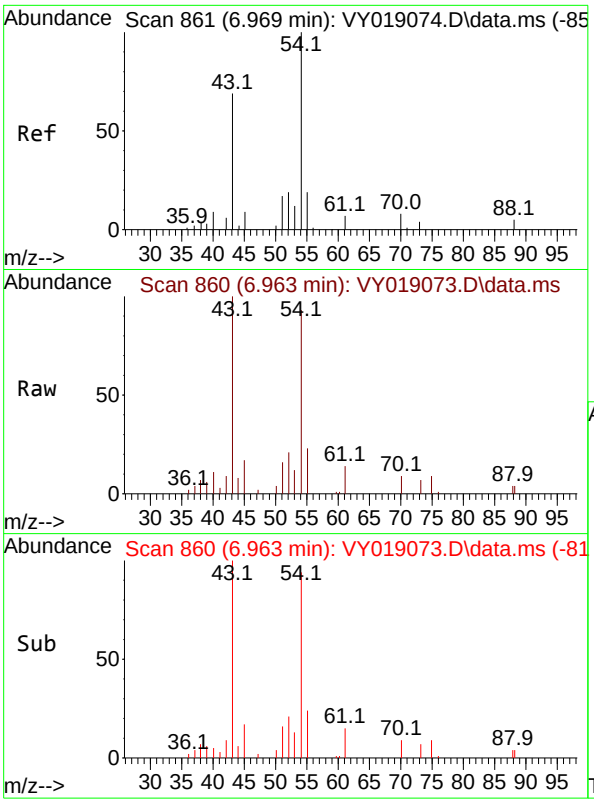


#36
1,1-Dichloropropene
Concen: 19.540 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 75 Resp: 35021

Ion	Ratio	Lower	Upper
75	100		
110	38.1	19.0	57.0
77	31.9	25.3	37.9

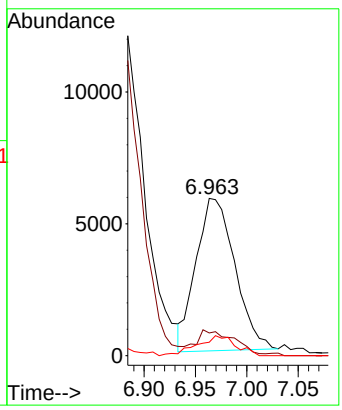




#37
Ethyl Acetate
Concen: 19.153 ug/l
RT: 6.963 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 43 Resp: 1520

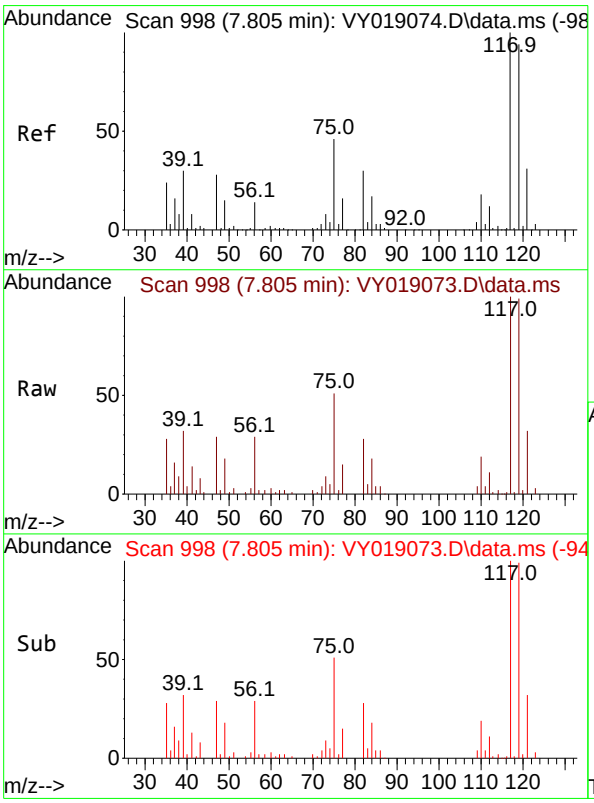
Ion	Ratio	Lower	Upper
43	100		
61	17.0	12.6	19.0
70	13.0	7.8	11.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

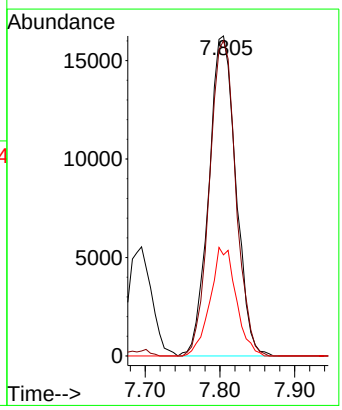
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

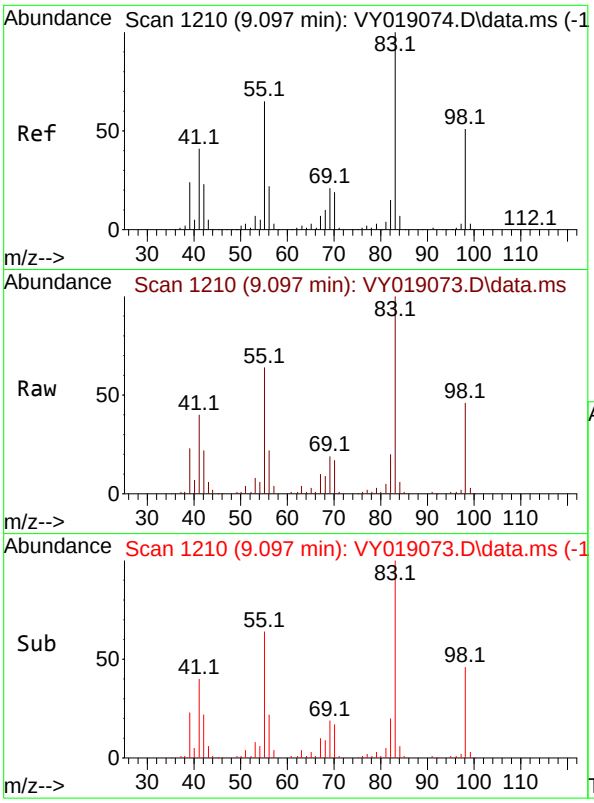


#38
Carbon Tetrachloride
Concen: 19.686 ug/l
RT: 7.805 min Scan# 998
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:117 Resp: 40890

Ion	Ratio	Lower	Upper
117	100		
119	98.5	75.8	113.6
121	31.6	24.0	36.0

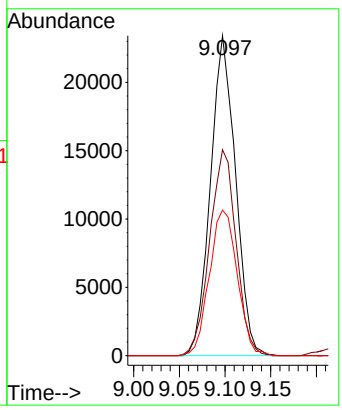




#39
Methylcyclohexane
Concen: 19.423 ug/l
RT: 9.097 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 83 Resp: 4467

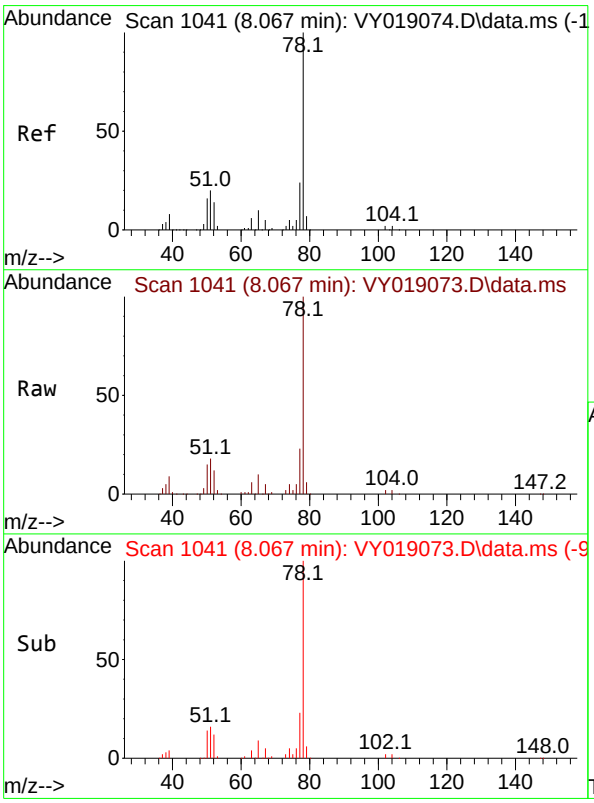
Ion	Ratio	Lower	Upper
83	100		
55	64.4	51.5	77.3
98	45.5	40.5	60.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

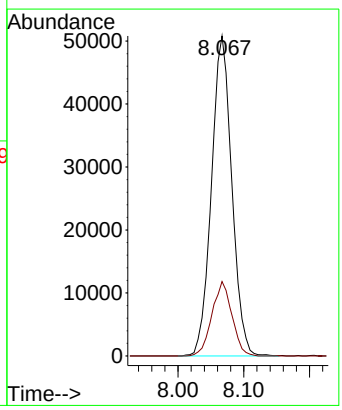
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

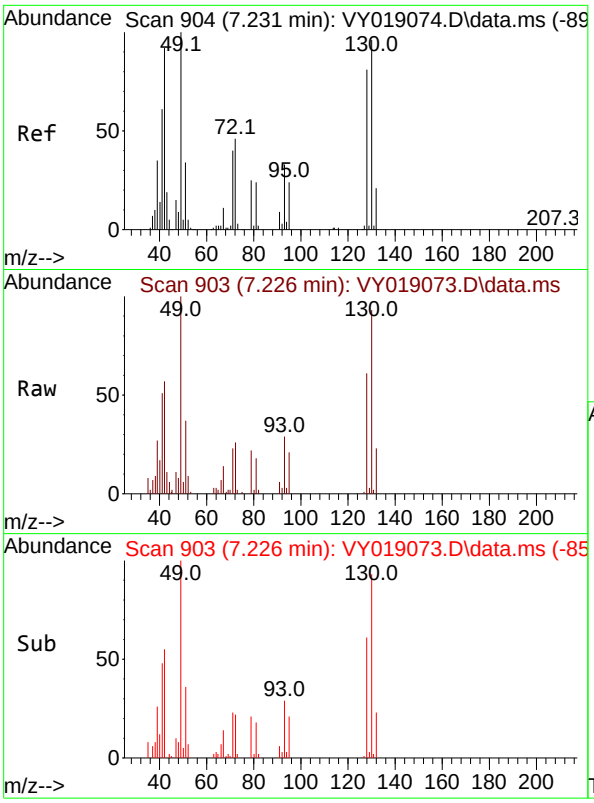


#40
Benzene
Concen: 19.921 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 78 Resp: 109503

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.5	29.3

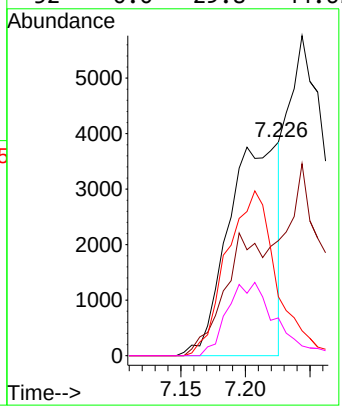




#41
Methacrylonitrile
Concen: 25.376 ug/l m
RT: 7.226 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 41 Resp: 1041

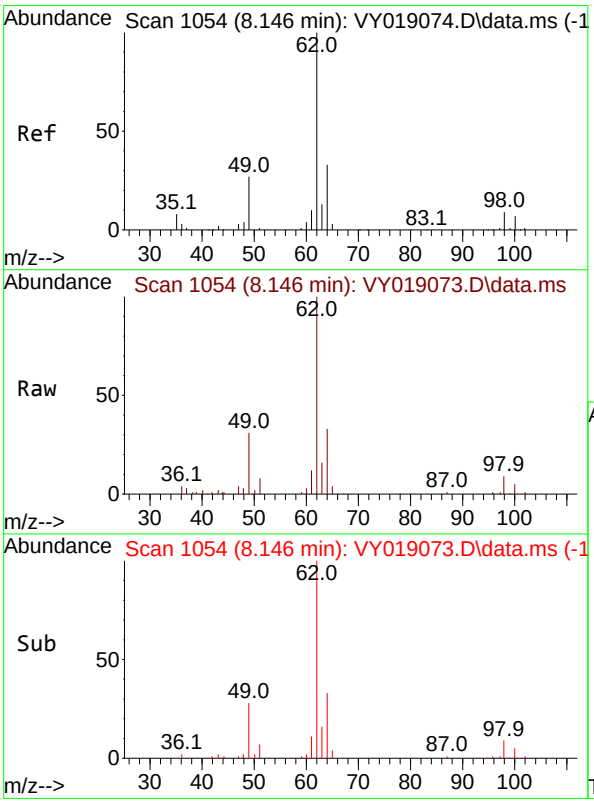
Ion	Ratio	Lower	Upper
41	100		
39	63.8	48.0	72.0
67	0.0	75.1	112.7#
52	0.0	29.8	44.6#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

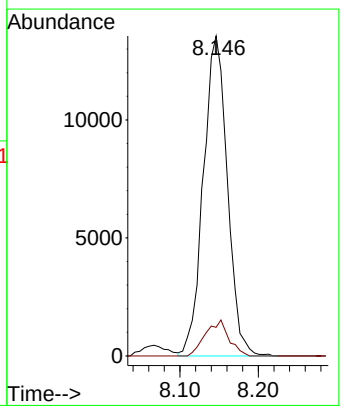
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

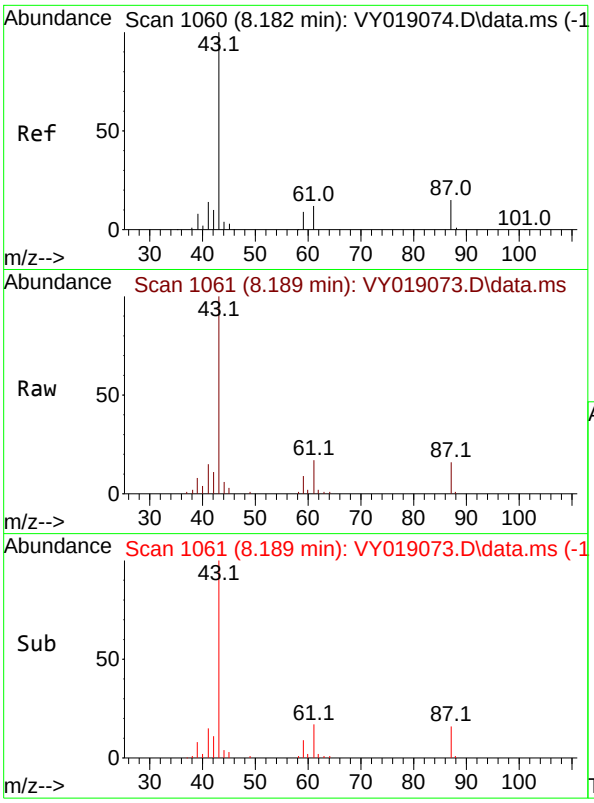


#42
1,2-Dichloroethane
Concen: 19.471 ug/l
RT: 8.146 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 62 Resp: 28902

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	22.0





#43
Isopropyl Acetate
Concen: 20.569 ug/l
RT: 8.189 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

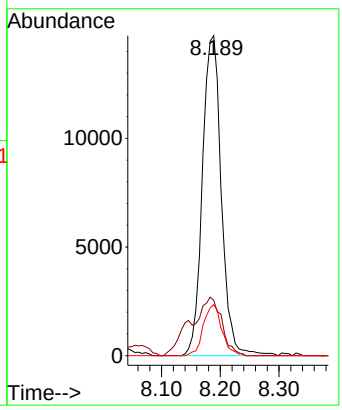
Tgt Ion: 43 Resp: 3303

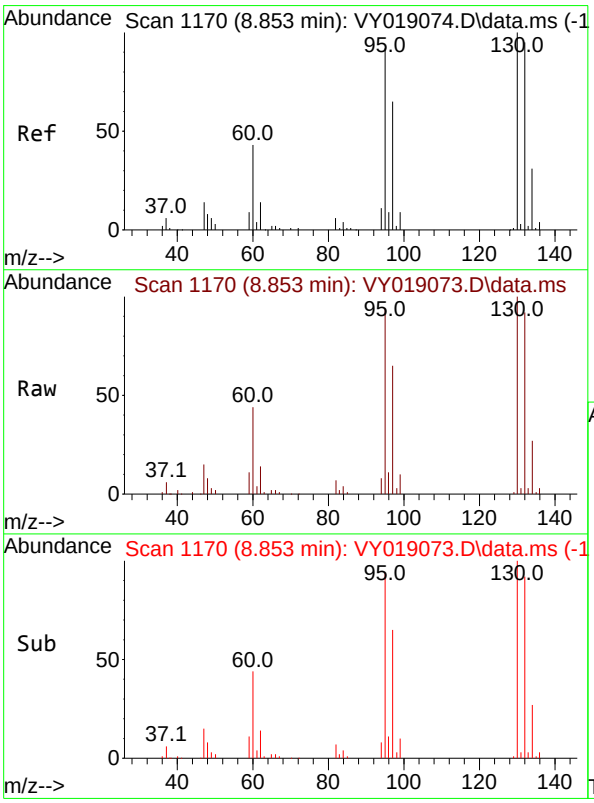
Ion	Ratio	Lower	Upper
43	100		
61	21.5	27.9	41.9#
87	15.7	13.1	19.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

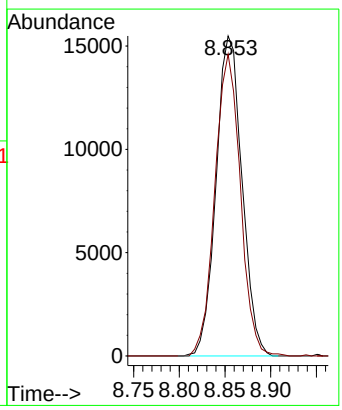


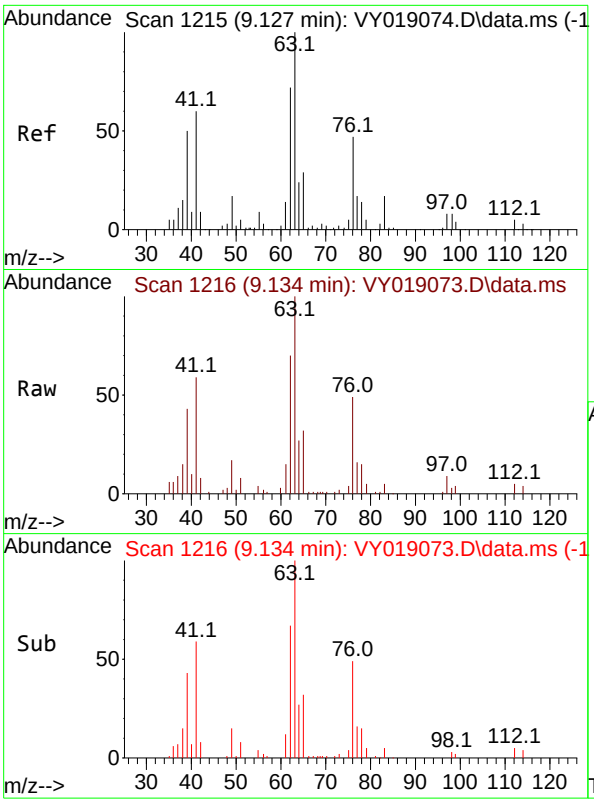


#44
Trichloroethene
Concen: 19.945 ug/l
RT: 8.853 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:130 Resp: 30592

Ion	Ratio	Lower	Upper
130	100		
95	94.3	0.0	188.0

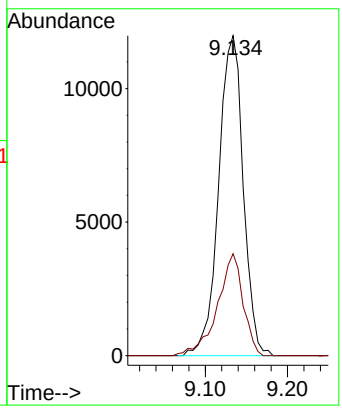




#45
1,2-Dichloropropane
Concen: 20.310 ug/l
RT: 9.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 63 Resp: 2487

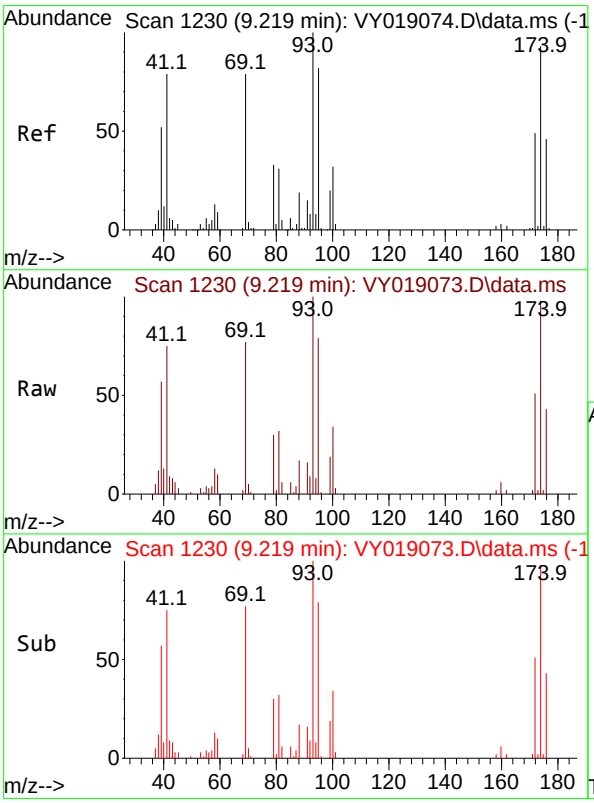
Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

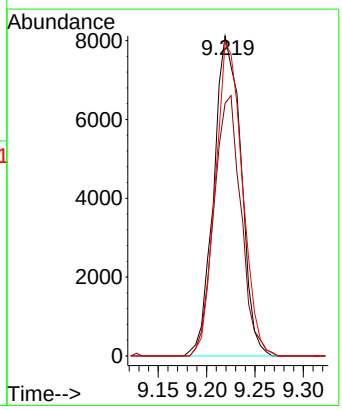
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

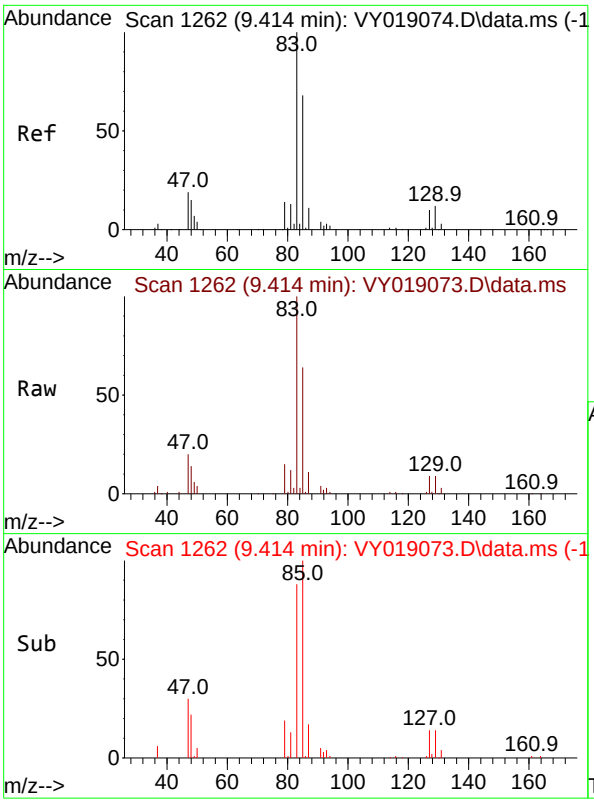


#46
Dibromomethane
Concen: 20.034 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 93 Resp: 15914

Ion	Ratio	Lower	Upper
93	100		
95	80.9	66.2	99.4
174	97.3	80.9	121.3





#47
Bromodichloromethane
Concen: 20.273 ug/l
RT: 9.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

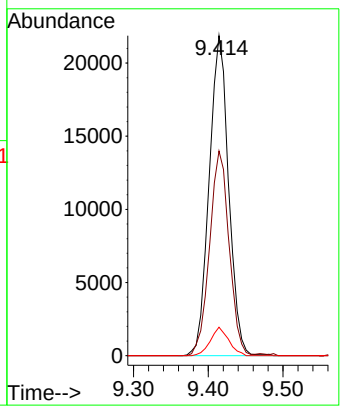
Tgt Ion: 83 Resp: 3950

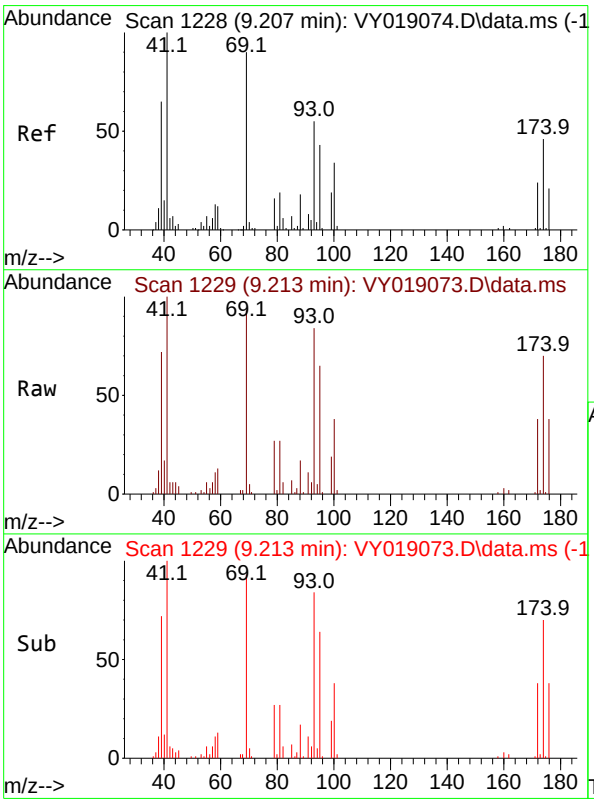
Ion	Ratio	Lower	Upper
83	100		
85	64.0	50.1	75.1
127	8.9	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

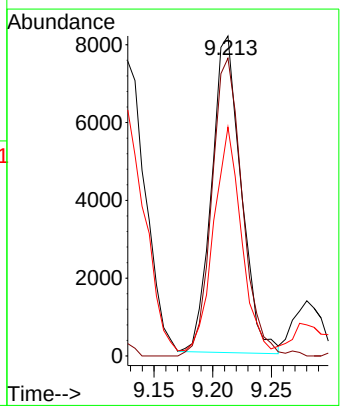


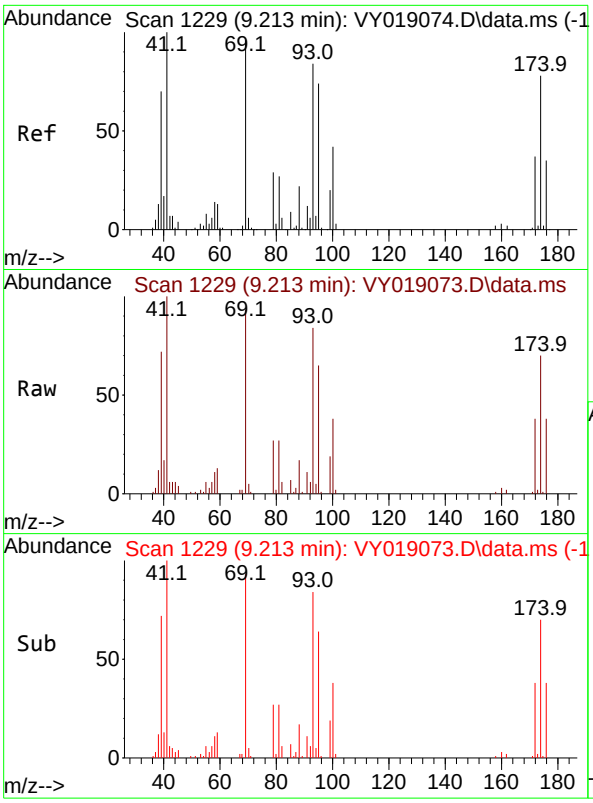


#48
Methyl methacrylate
Concen: 19.869 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 41 Resp: 14220

Ion	Ratio	Lower	Upper
41	100		
69	97.6	84.1	126.1
39	66.4	43.6	65.4#

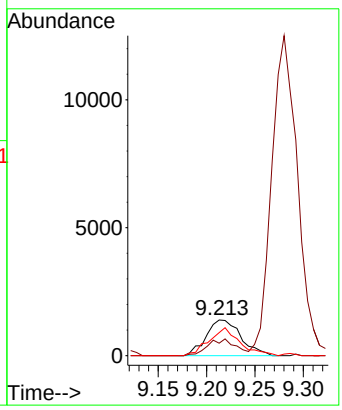




#49
1,4-Dioxane
Concen: 362.071 ug/l
RT: 9.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 88 Resp: 348

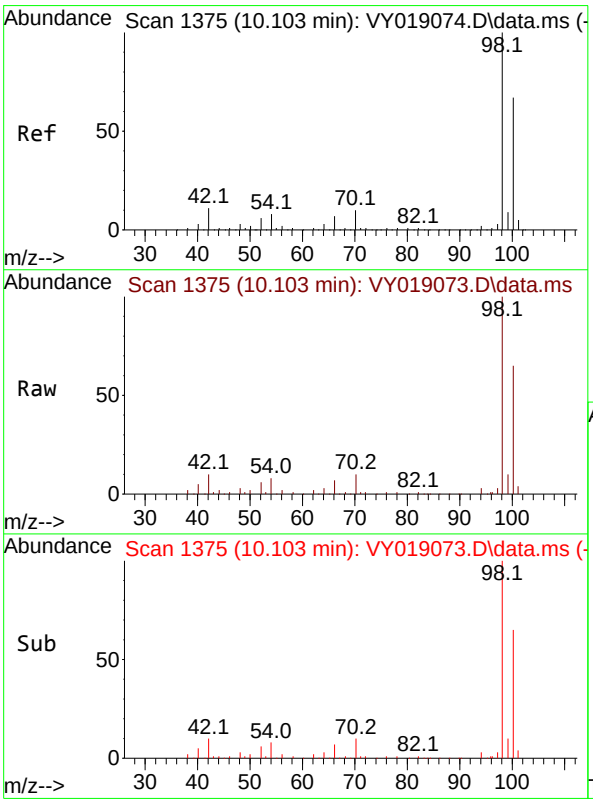
Ion	Ratio	Lower	Upper
88	100		
43	38.3	0.0	0.0
58	69.1	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

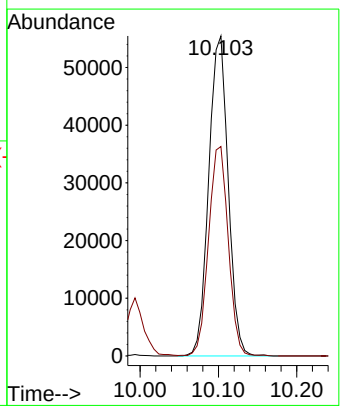
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

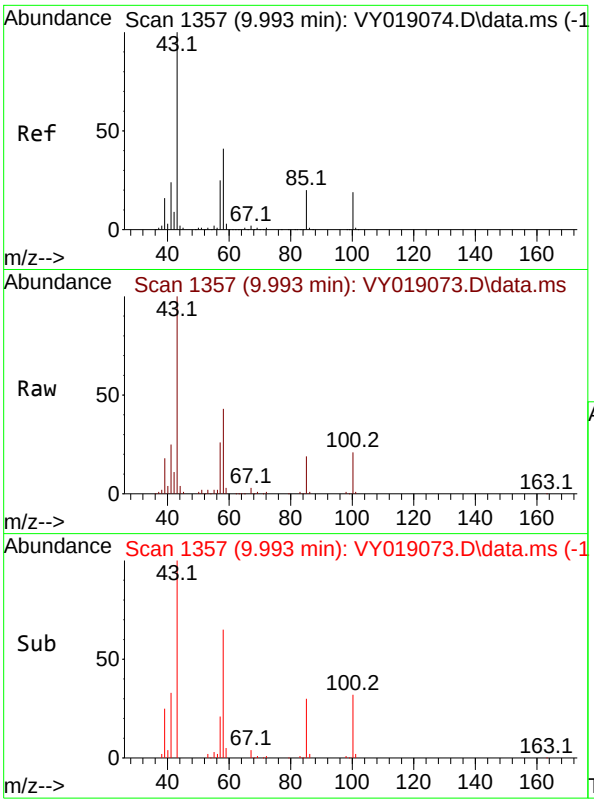


#50
Toluene-d8
Concen: 20.339 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 98 Resp: 95533

Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.0	78.0

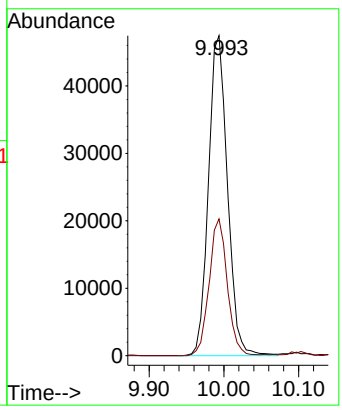




#51
4-Methyl-2-Pentanone
Concen: 98.297 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 43 Resp: 8378

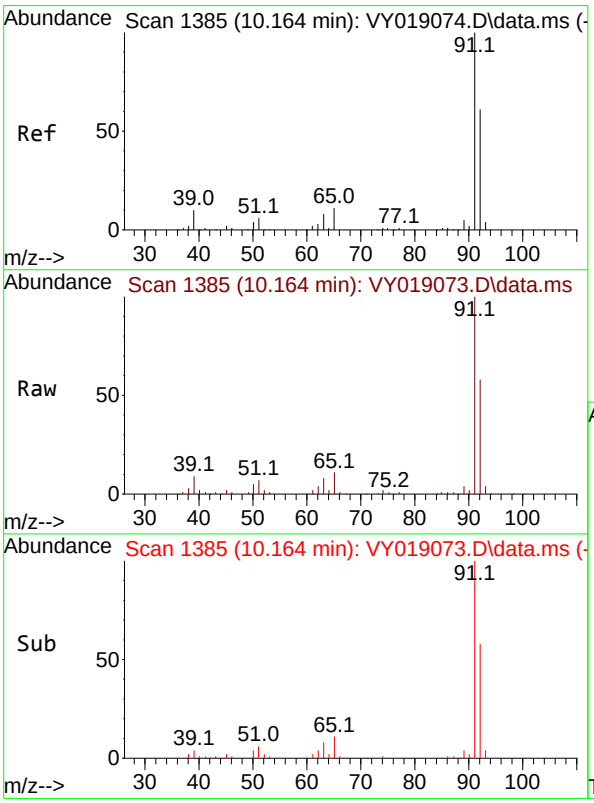
Ion	Ratio	Lower	Upper
43	100		
58	41.0	35.7	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

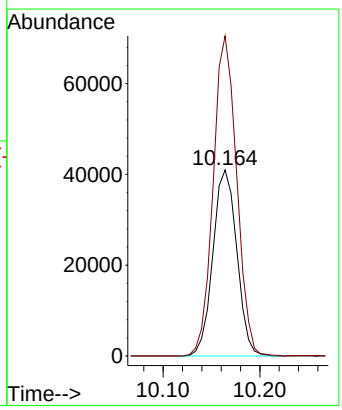
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

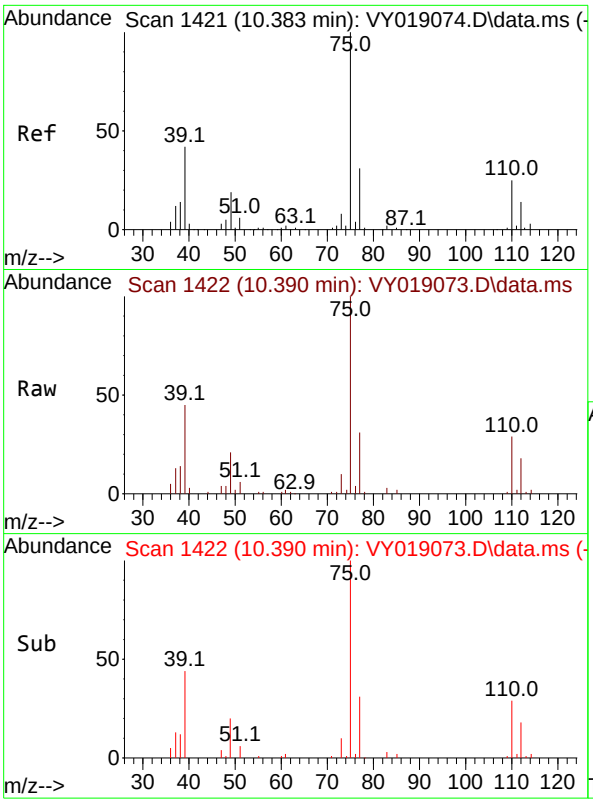


#52
Toluene
Concen: 19.486 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 92 Resp: 70310

Ion	Ratio	Lower	Upper
92	100		
91	169.3	139.0	208.6

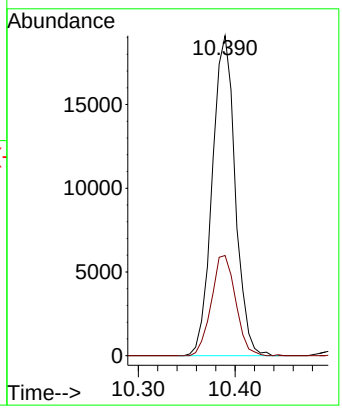




#53
t-1,3-Dichloropropene
Concen: 19.463 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 75 Resp: 3146

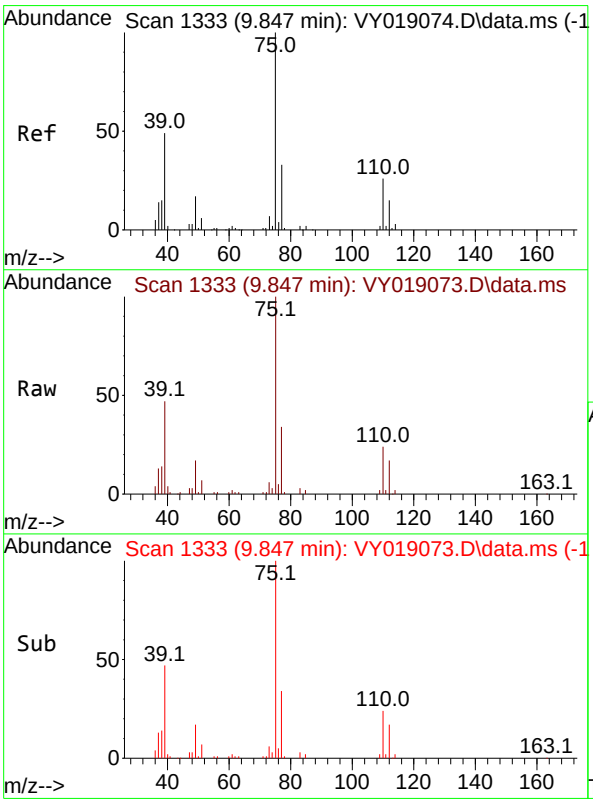
Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.1	36.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

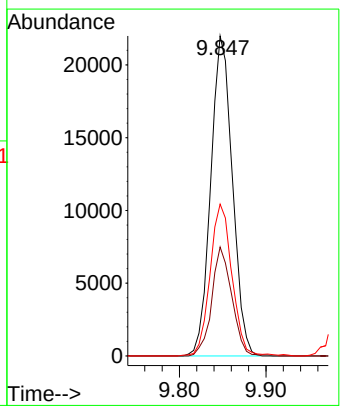
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

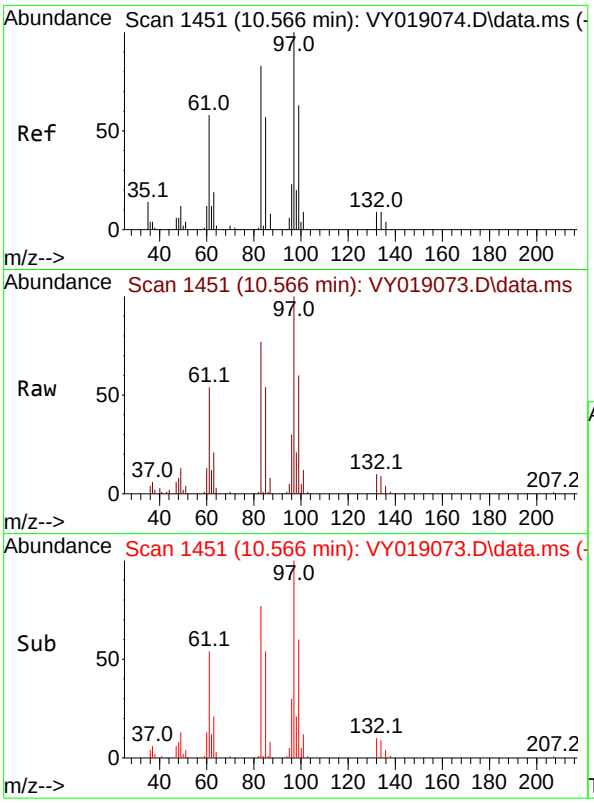


#54
cis-1,3-Dichloropropene
Concen: 19.629 ug/l
RT: 9.847 min Scan# 1333
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 75 Resp: 38163

Ion	Ratio	Lower	Upper
75	100		
77	34.0	25.4	38.0
39	47.4	29.8	44.6#

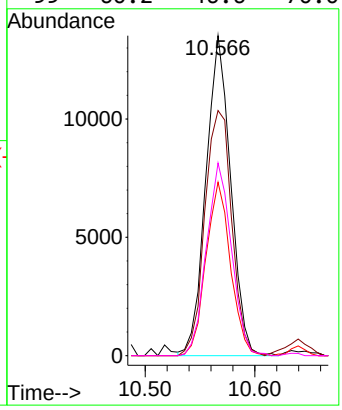




#55
1,1,2-Trichloroethane
Concen: 20.763 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 97 Resp: 2123

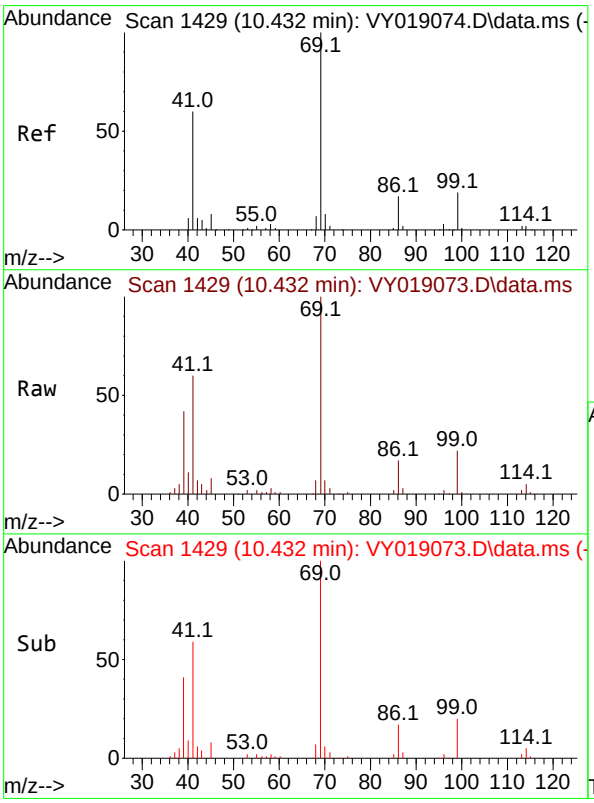
Ion	Ratio	Lower	Upper
97	100		
83	76.6	67.5	101.3
85	54.2	42.9	64.3
99	60.2	46.6	70.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

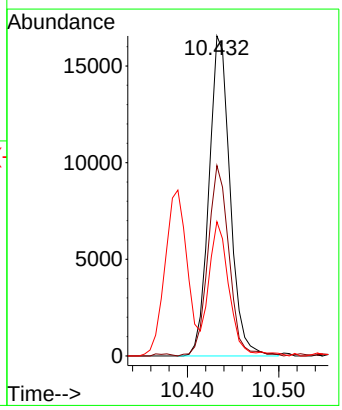
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

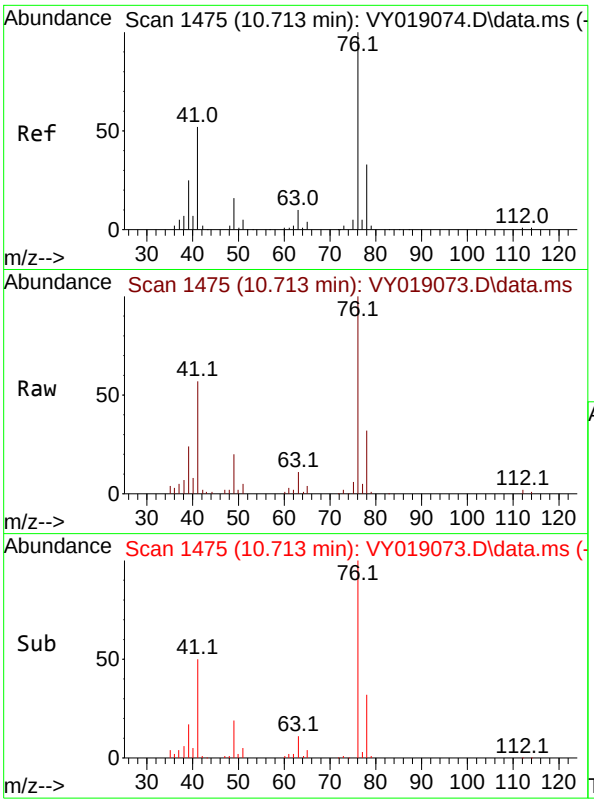


#56
Ethyl methacrylate
Concen: 19.843 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 69 Resp: 26560

Ion	Ratio	Lower	Upper
69	100		
41	59.6	42.3	63.5
39	37.0	22.9	34.3#

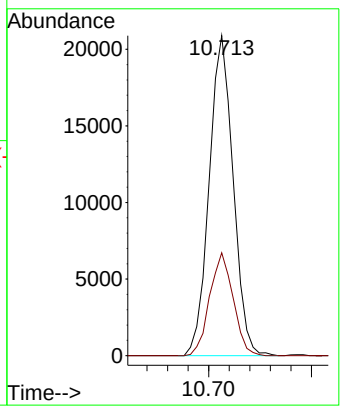




#57
1,3-Dichloropropane
Concen: 20.282 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 76 Resp: 3381

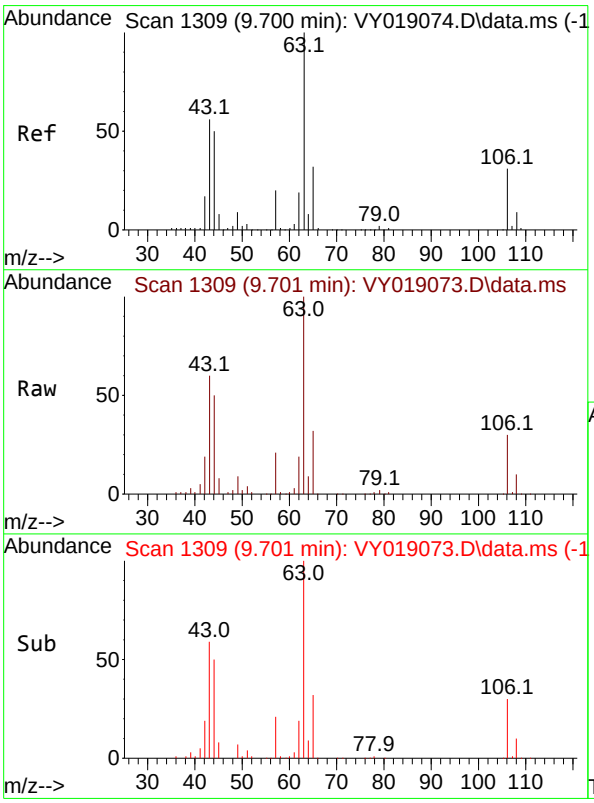
Ion	Ratio	Lower	Upper
76	100		
78	31.5	26.2	39.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

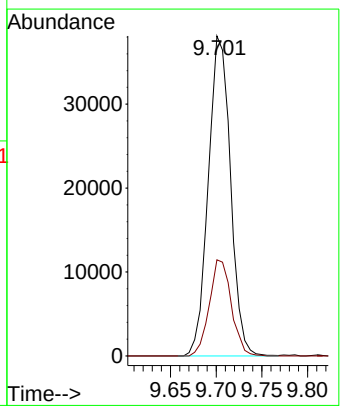
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

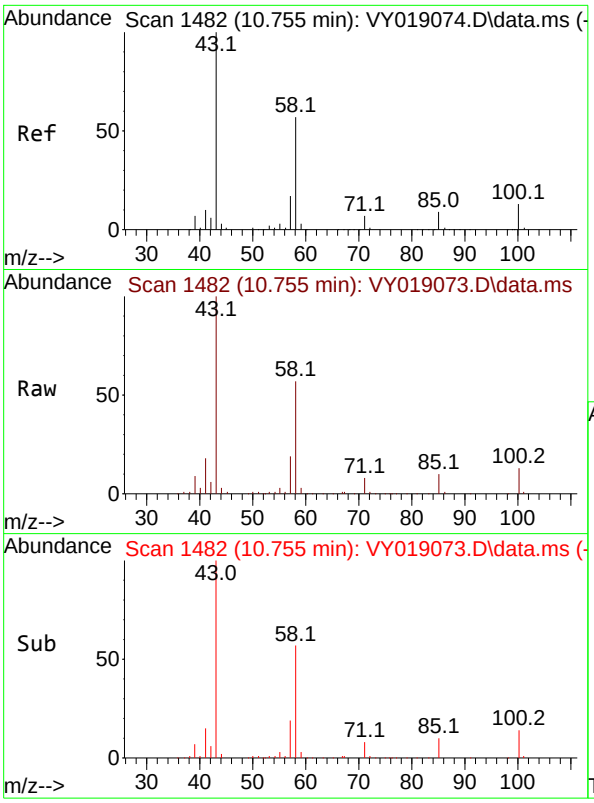


#58
2-Chloroethyl Vinyl ether
Concen: 101.315 ug/l
RT: 9.701 min Scan# 1309
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 63 Resp: 64332

Ion	Ratio	Lower	Upper
63	100		
106	29.8	23.7	35.5

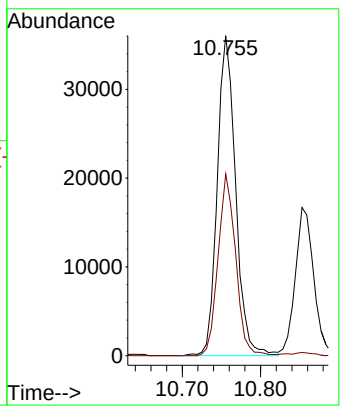




#59
2-Hexanone
Concen: 100.451 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 43 Resp: 5882

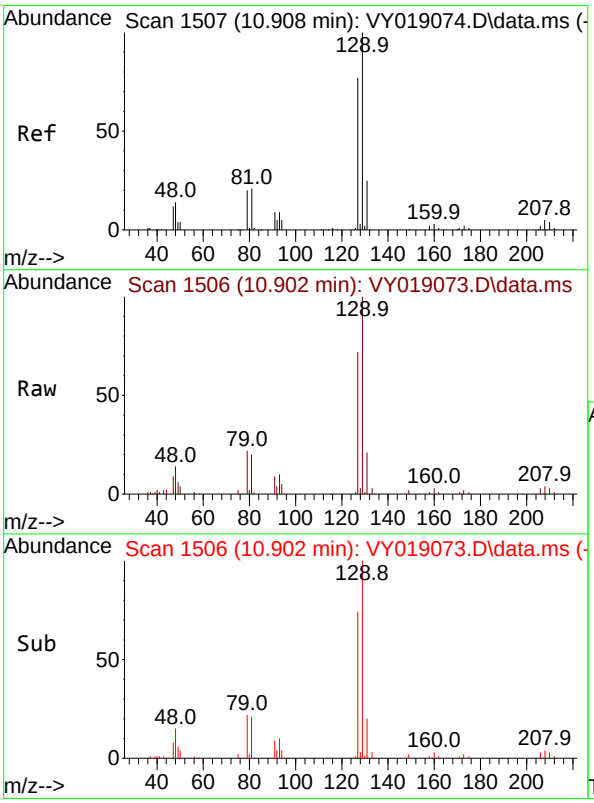
Ion	Ratio	Lower	Upper
43	100		
58	54.4	31.4	94.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

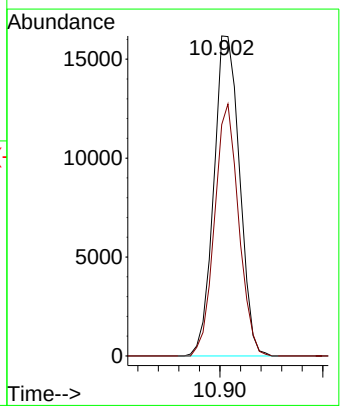
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

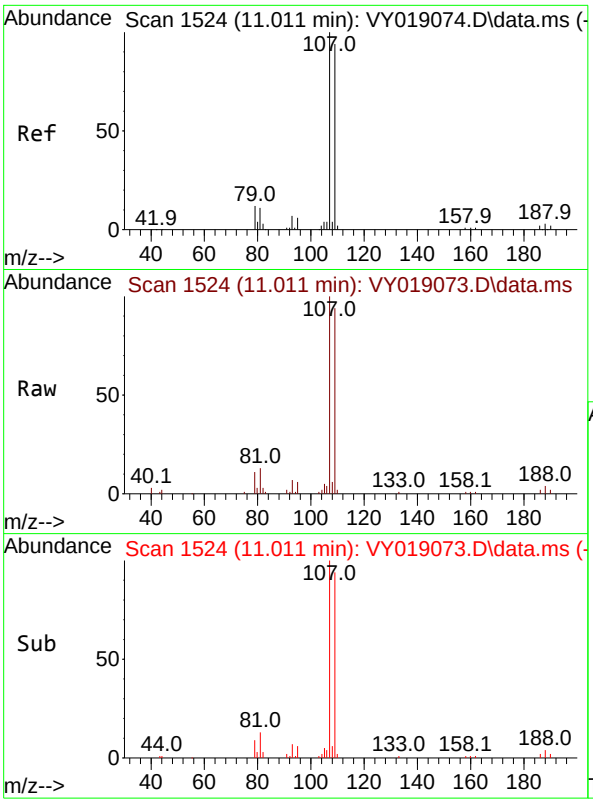


#60
Dibromochloromethane
Concen: 20.211 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:129 Resp: 28149

Ion	Ratio	Lower	Upper
129	100		
127	73.8	39.0	117.0





#61
1,2-Dibromoethane
Concen: 20.362 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

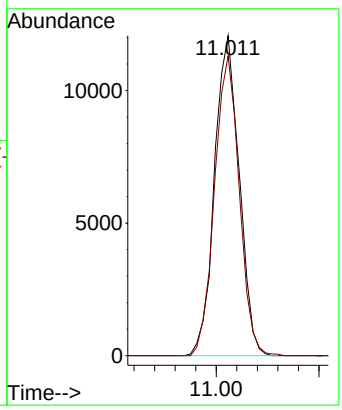
Tgt Ion:107 Resp: 2012

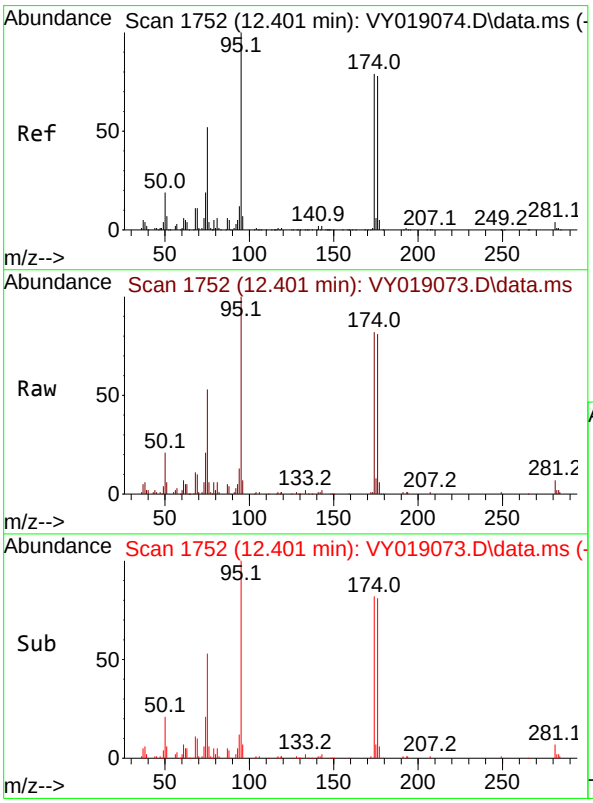
Ion	Ratio	Lower	Upper
107	100		
109	93.6	75.9	113.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

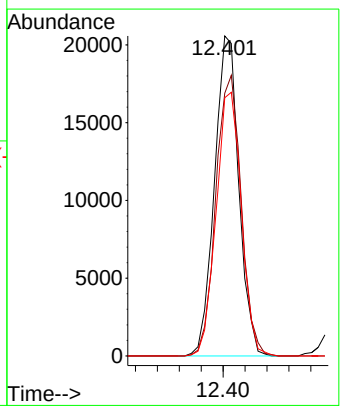


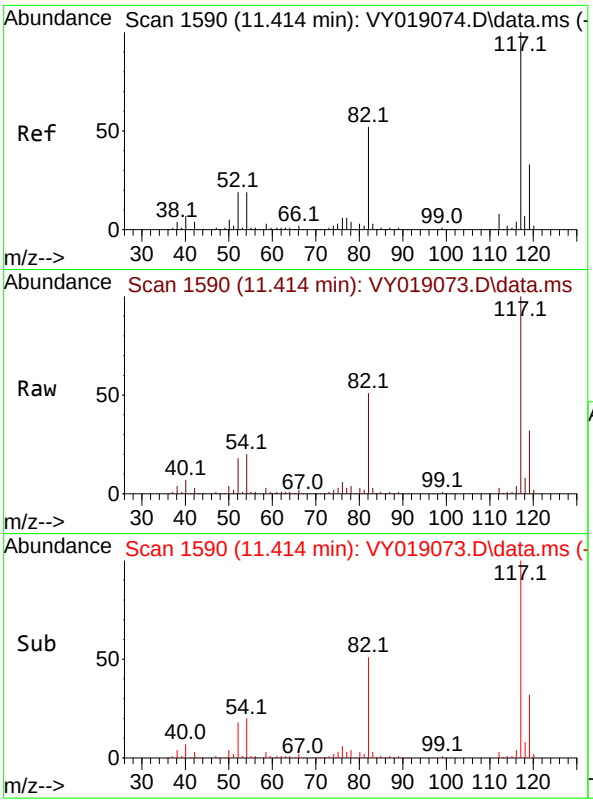


#62
4-Bromofluorobenzene
Concen: 19.801 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 95 Resp: 31705

Ion	Ratio	Lower	Upper
95	100		
174	91.1	0.0	175.6
176	85.4	0.0	171.4

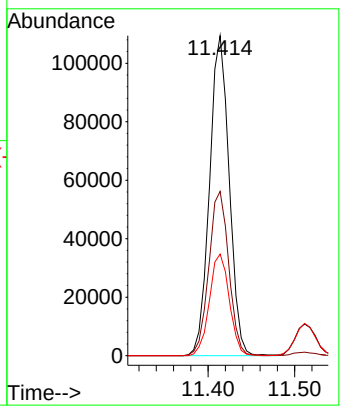




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:117 Resp: 17238

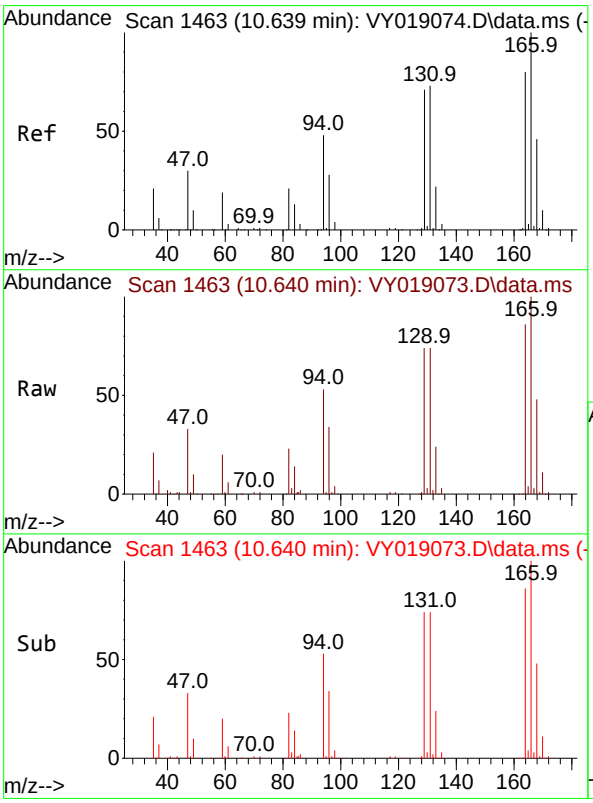
Ion	Ratio	Lower	Upper
117	100		
82	51.3	42.4	63.6
119	31.7	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

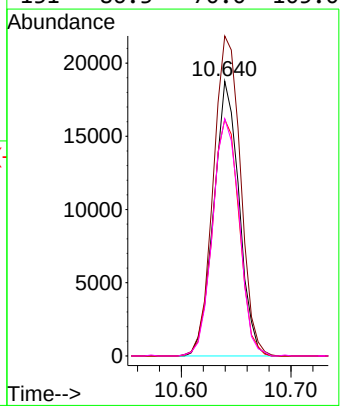
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

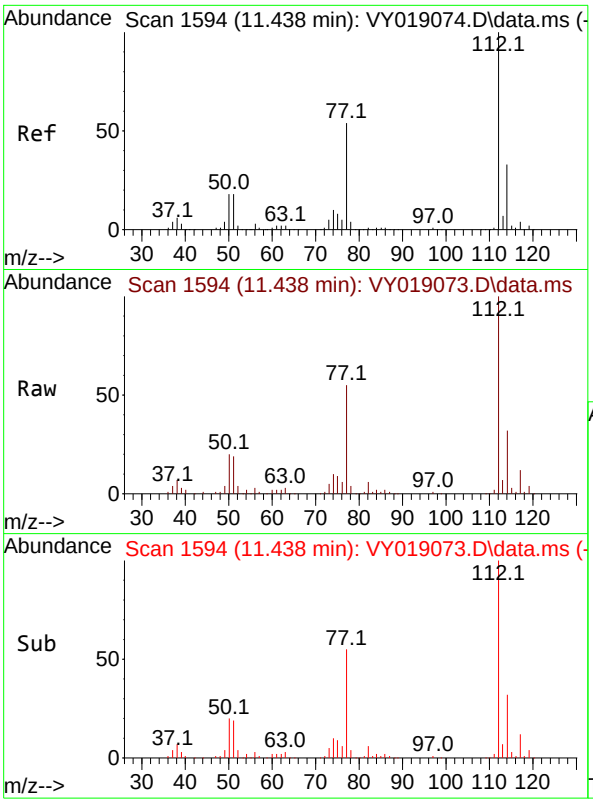


#64
Tetrachloroethene
Concen: 20.000 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:164 Resp: 30135

Ion	Ratio	Lower	Upper
164	100		
166	116.5	102.6	154.0
129	86.1	72.0	108.0
131	86.3	70.0	105.0

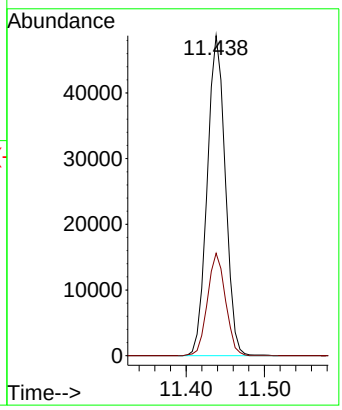




#65
Chlorobenzene
Concen: 19.636 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:112 Resp: 7794

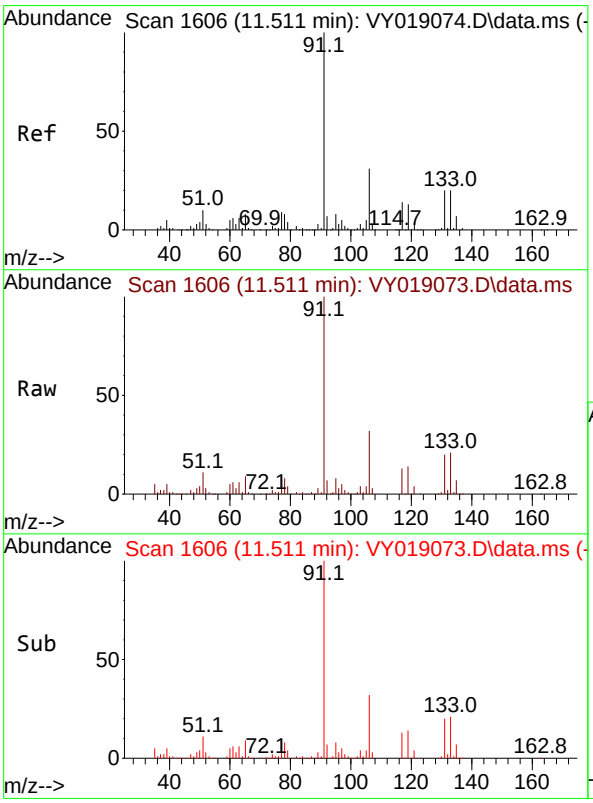
Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

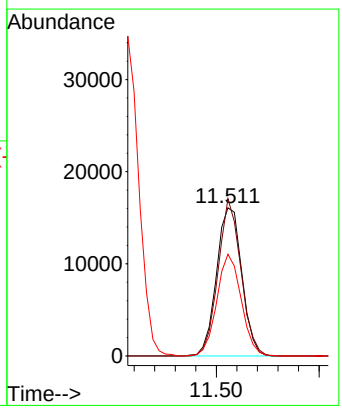
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

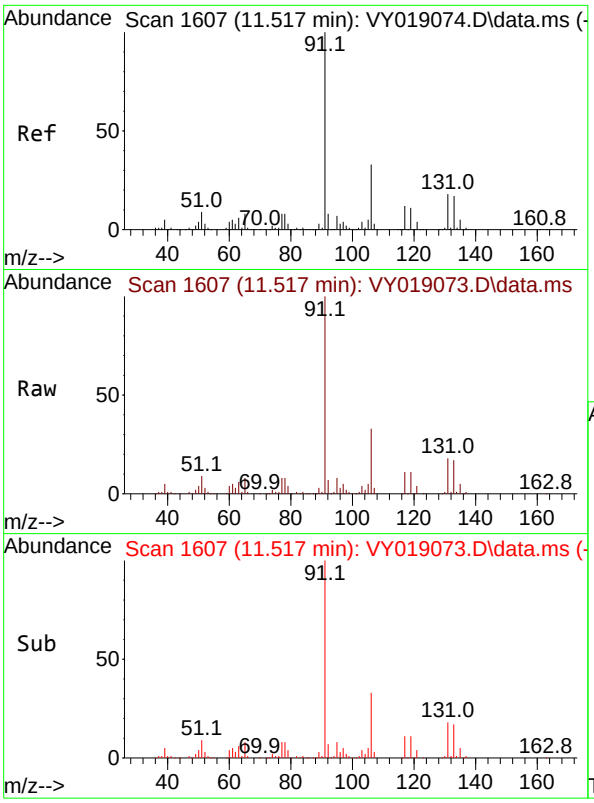


#66
1,1,1,2-Tetrachloroethane
Concen: 19.670 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:131 Resp: 27457

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.8	143.3
119	66.2	34.1	102.2





#67
Ethyl Benzene
Concen: 19.345 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

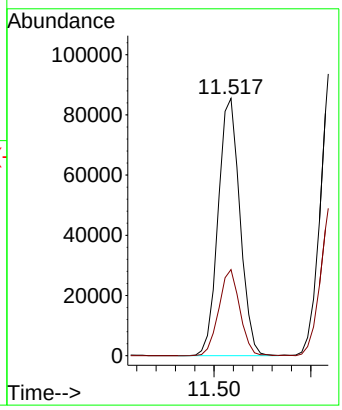
Tgt Ion: 91 Resp: 13327

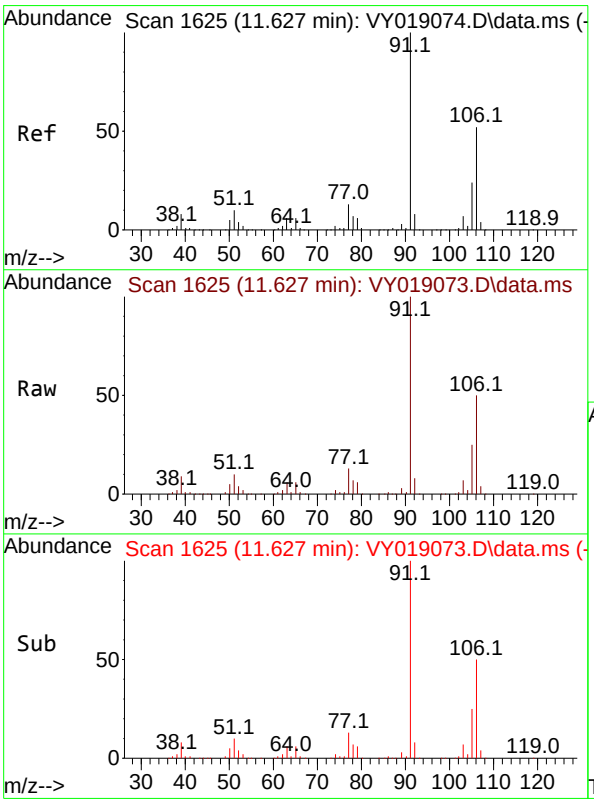
Ion	Ratio	Lower	Upper
91	100		
106	33.4	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

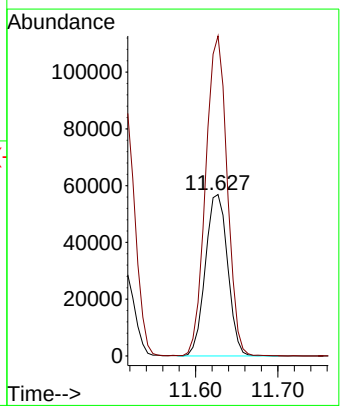


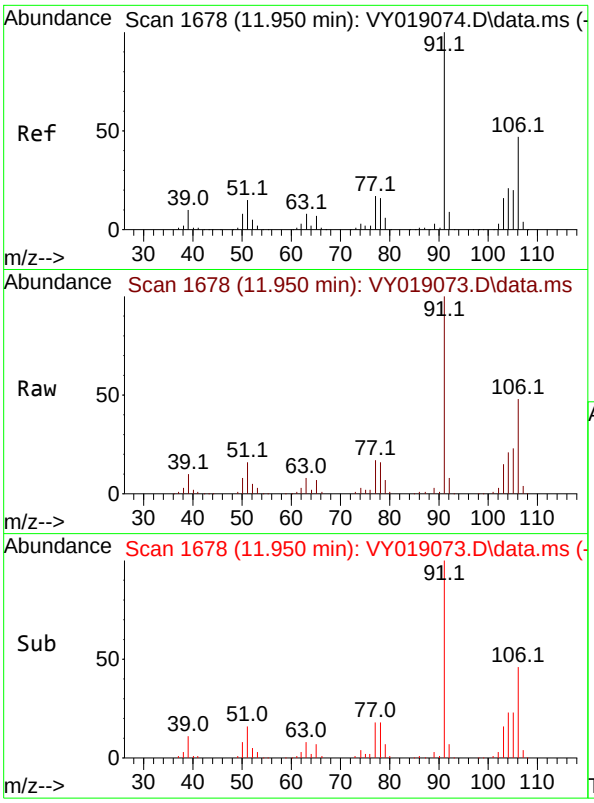


#68
m/p-Xylenes
Concen: 39.201 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:106 Resp: 107159

Ion	Ratio	Lower	Upper
106	100		
91	191.5	156.0	234.0

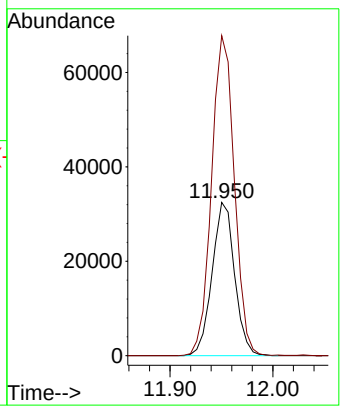




#69
o-Xylene
Concen: 19.463 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:106 Resp: 4927

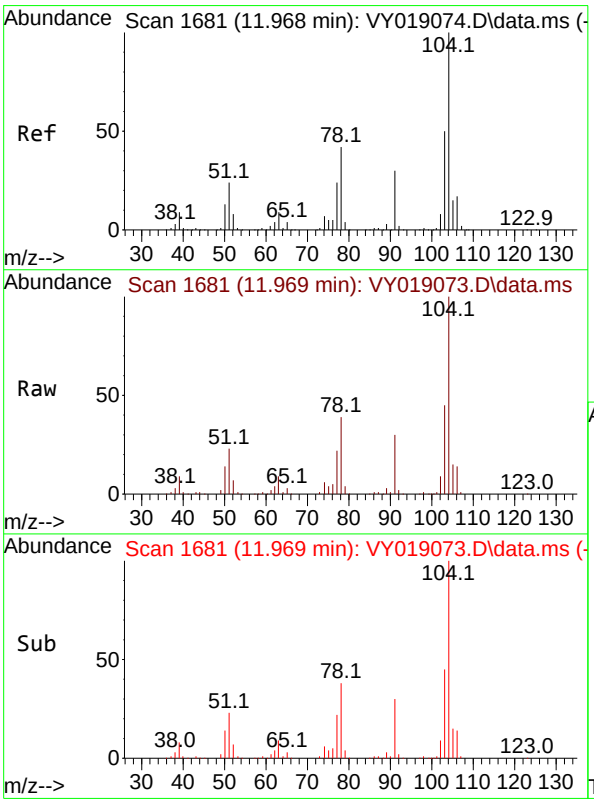
Ion	Ratio	Lower	Upper
106	100		
91	211.5	103.6	310.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

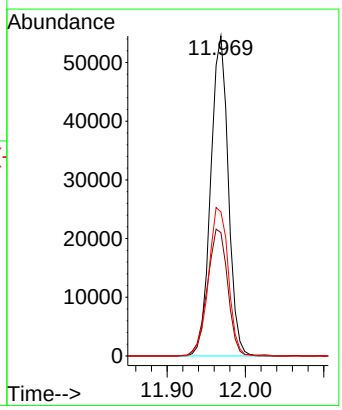
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

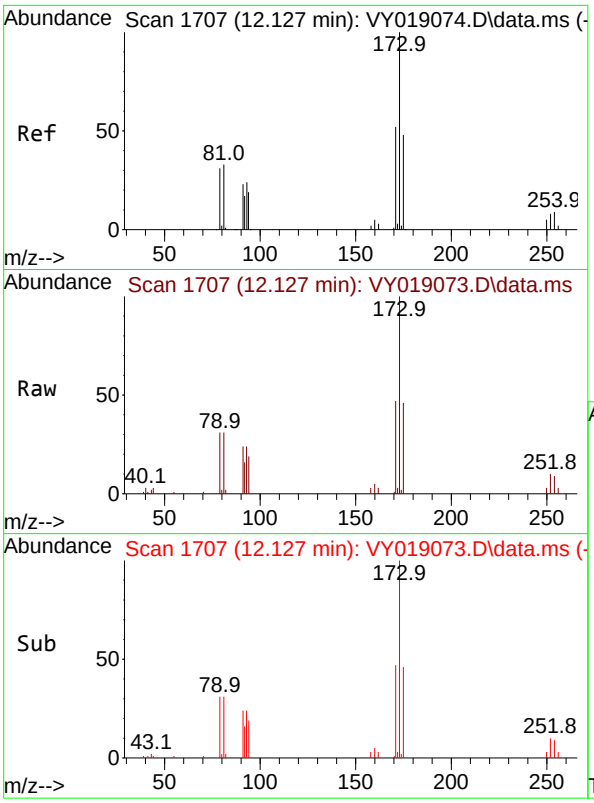


#70
Styrene
Concen: 19.710 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:104 Resp: 85087

Ion	Ratio	Lower	Upper
104	100		
78	46.0	37.0	55.4
103	52.2	44.2	66.2

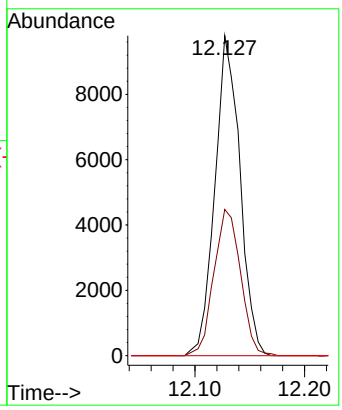




#71
Bromoform
Concen: 19.503 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:173 Resp: 1556

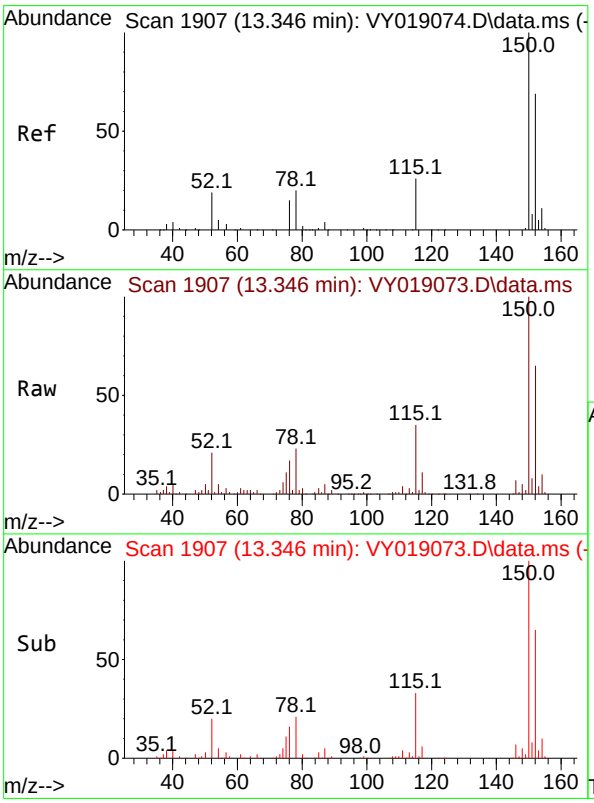
Ion	Ratio	Lower	Upper
173	100		
175	48.6	25.1	75.3
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

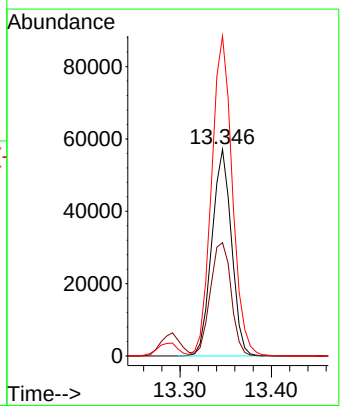
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

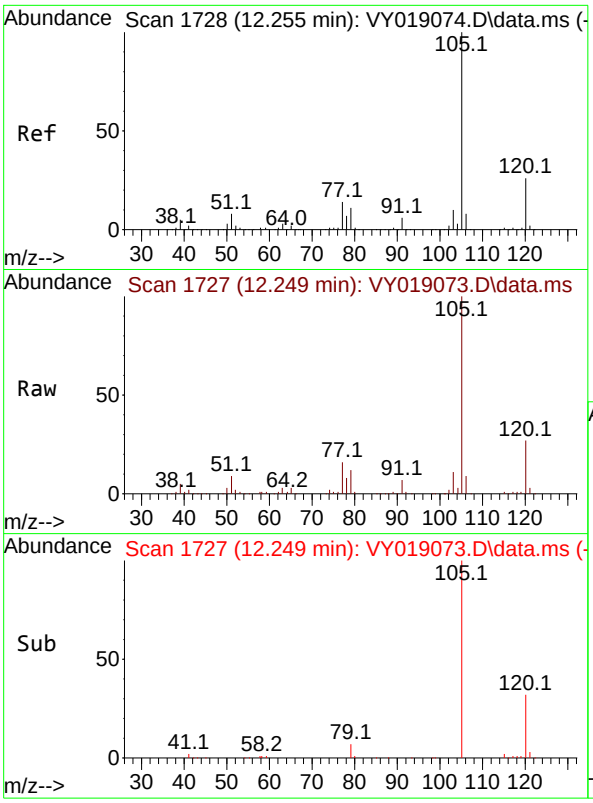


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:152 Resp: 85159

Ion	Ratio	Lower	Upper
152	100		
115	58.2	28.2	84.7
150	163.9	0.0	345.6

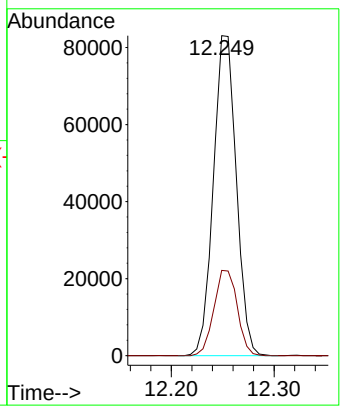




#73
Isopropylbenzene
Concen: 19.695 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:105 Resp: 12855

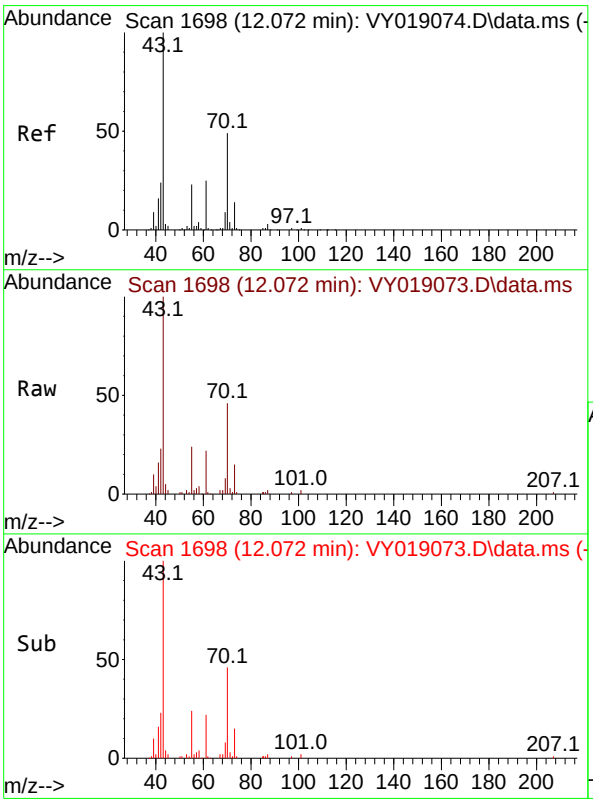
Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

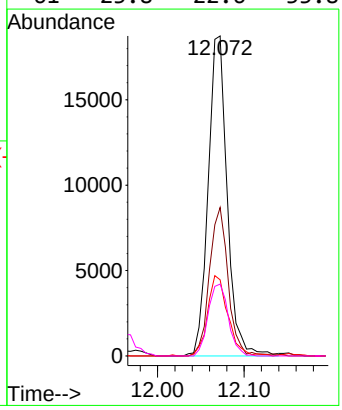
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

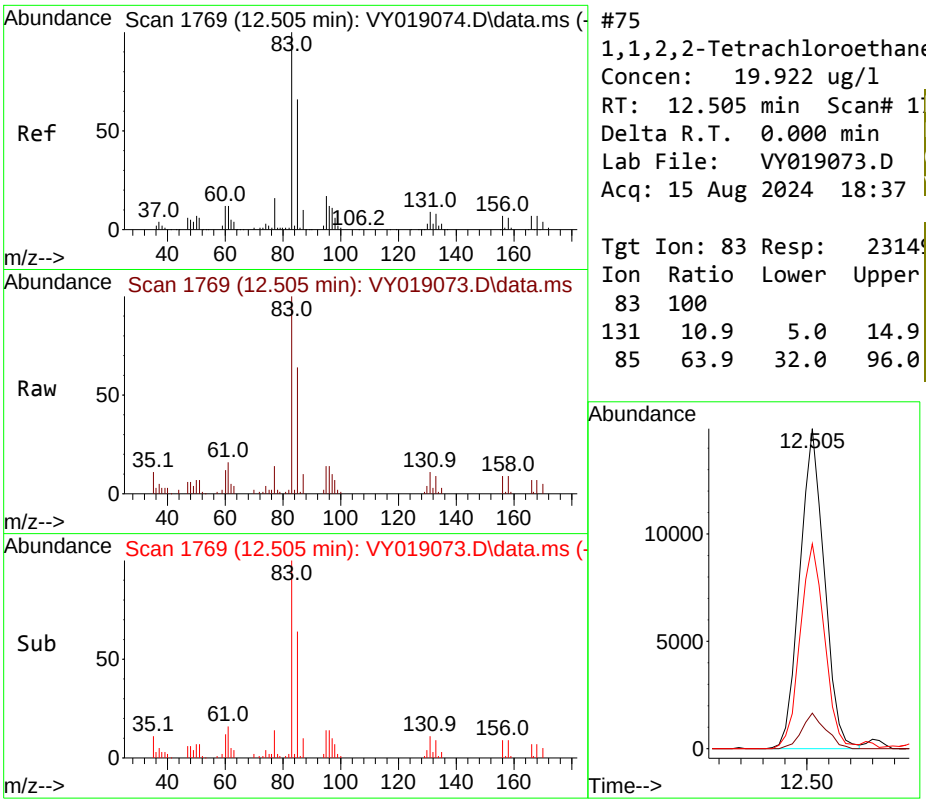


#74
N-amyl acetate
Concen: 20.089 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 43 Resp: 28592

Ion	Ratio	Lower	Upper
43	100		
70	45.9	41.4	62.2
55	26.8	23.3	34.9
61	23.8	22.6	33.8





#75
1,1,2,2-Tetrachloroethane
Concen: 19.922 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

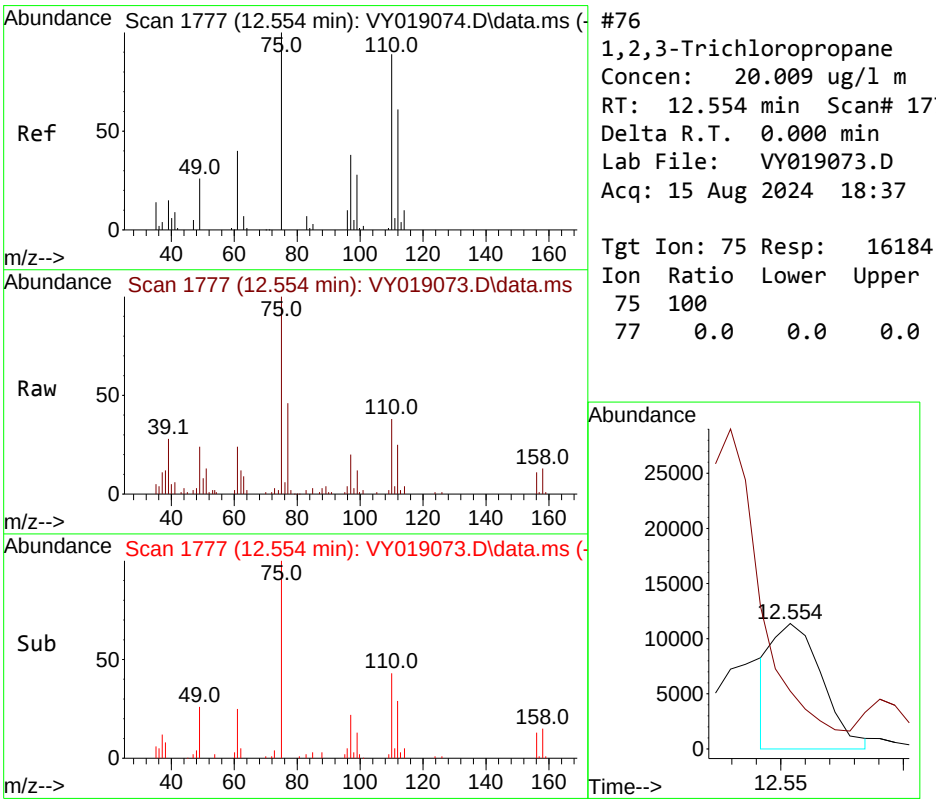
Tgt Ion: 83 Resp: 2314

Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.0	14.9
85	63.9	32.0	96.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

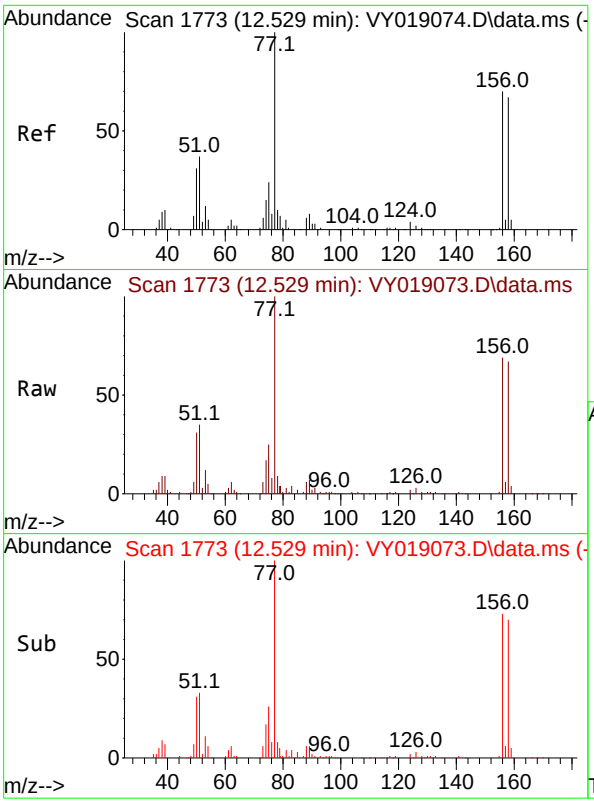
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024



#76
1,2,3-Trichloropropane
Concen: 20.009 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 75 Resp: 16184

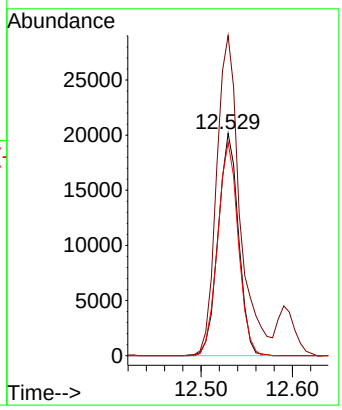
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



#77
Bromobenzene
Concen: 19.923 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:156 Resp: 3123

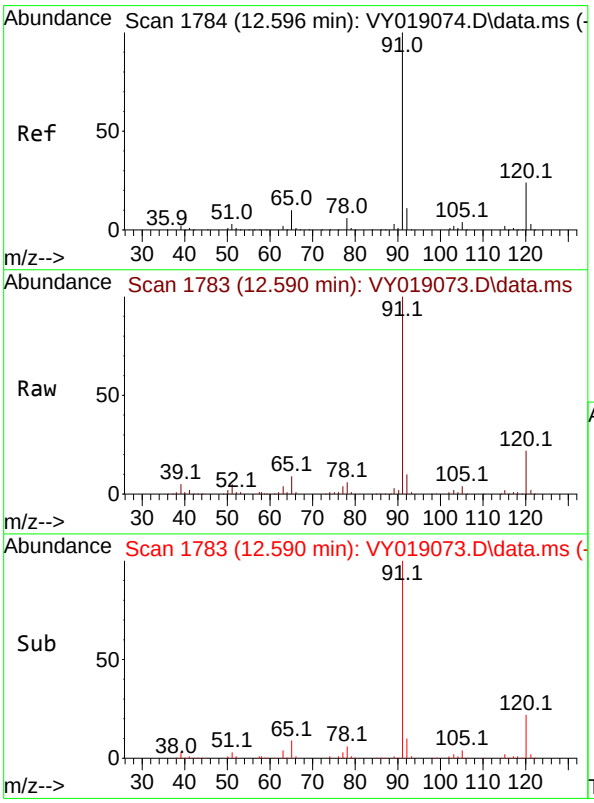
Ion	Ratio	Lower	Upper
156	100		
77	165.5	87.1	261.3
158	96.9	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

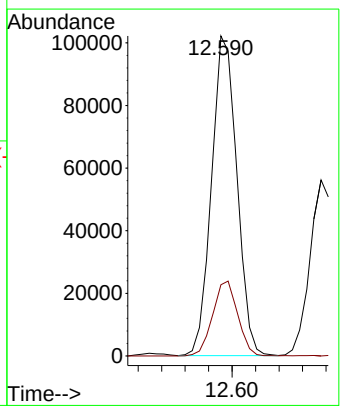
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

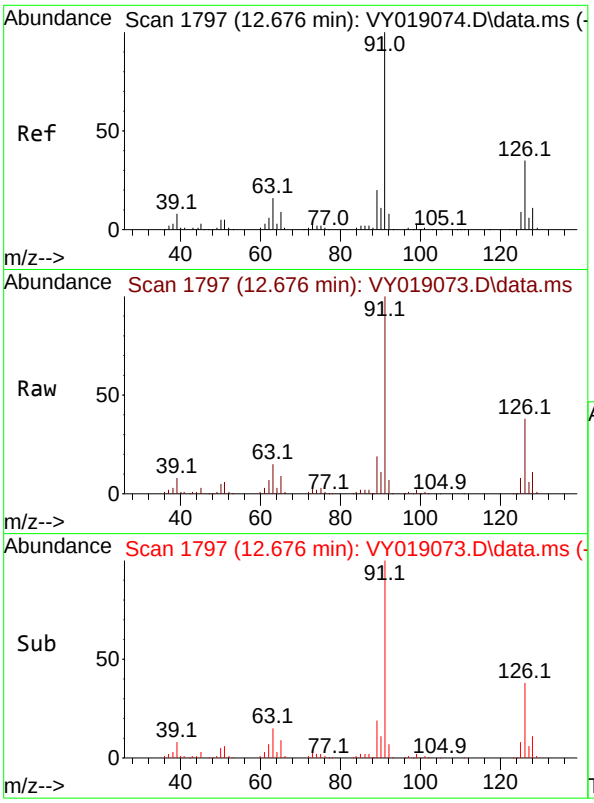


#78
n-propylbenzene
Concen: 19.621 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 91 Resp: 153094

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.4

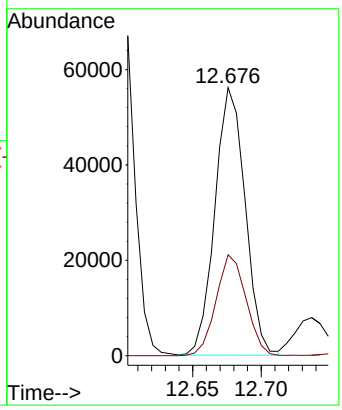




#79
2-Chlorotoluene
Concen: 19.649 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 91 Resp: 8595

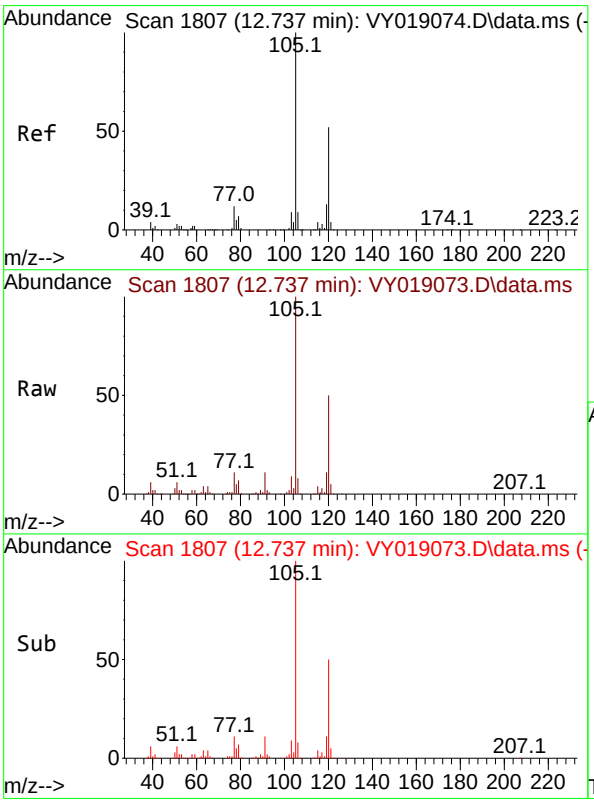
Ion	Ratio	Lower	Upper
91	100		
126	37.5	17.8	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

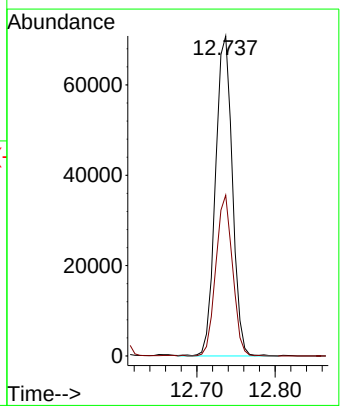
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

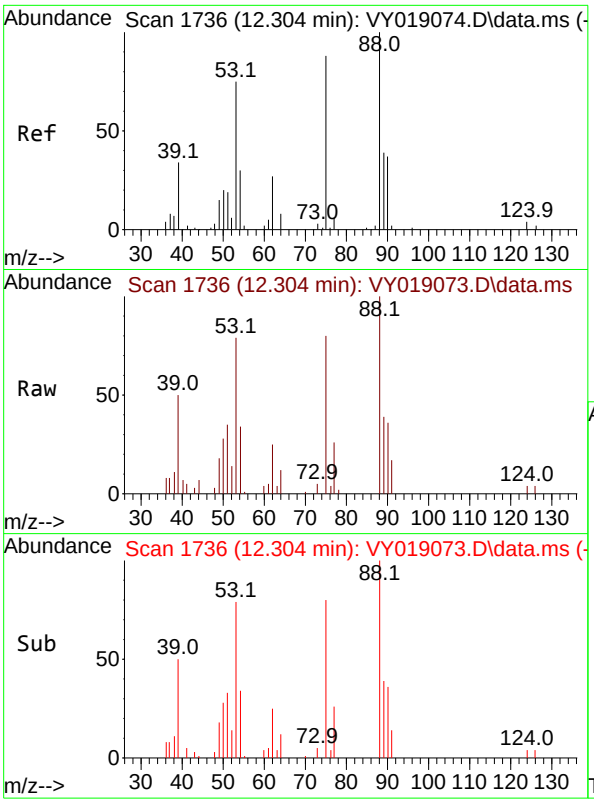


#80
1,3,5-Trimethylbenzene
Concen: 19.989 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:105 Resp: 106288

Ion	Ratio	Lower	Upper
105	100		
120	49.7	25.1	75.2

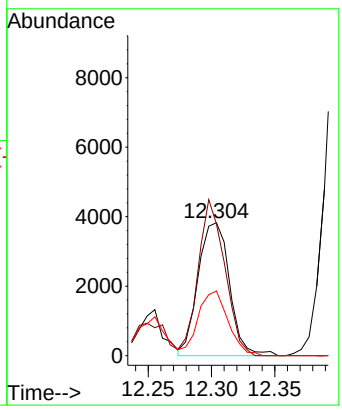




#81
trans-1,4-Dichloro-2-butene
Concen: 19.479 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 75 Resp: 662

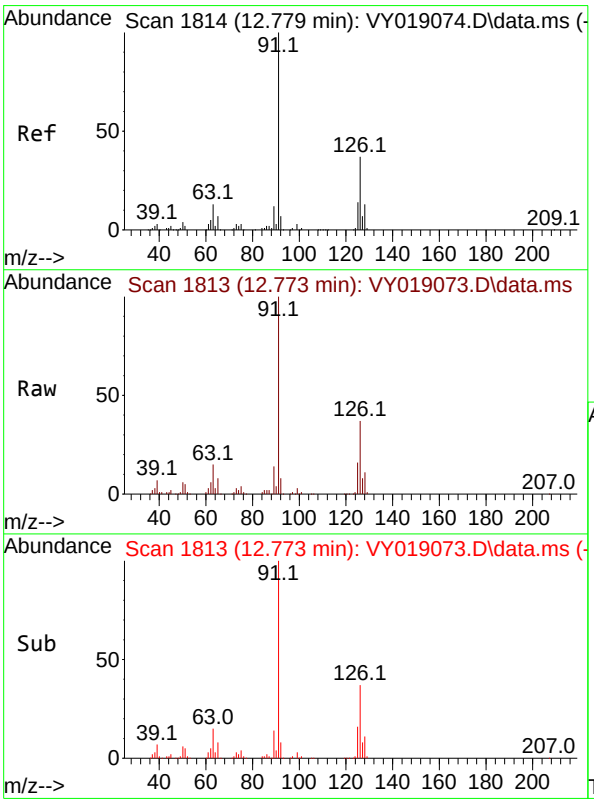
Ion	Ratio	Lower	Upper
75	100		
53	99.5	66.8	100.2
89	46.6	35.8	53.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

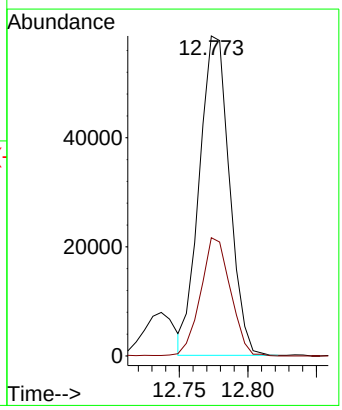
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

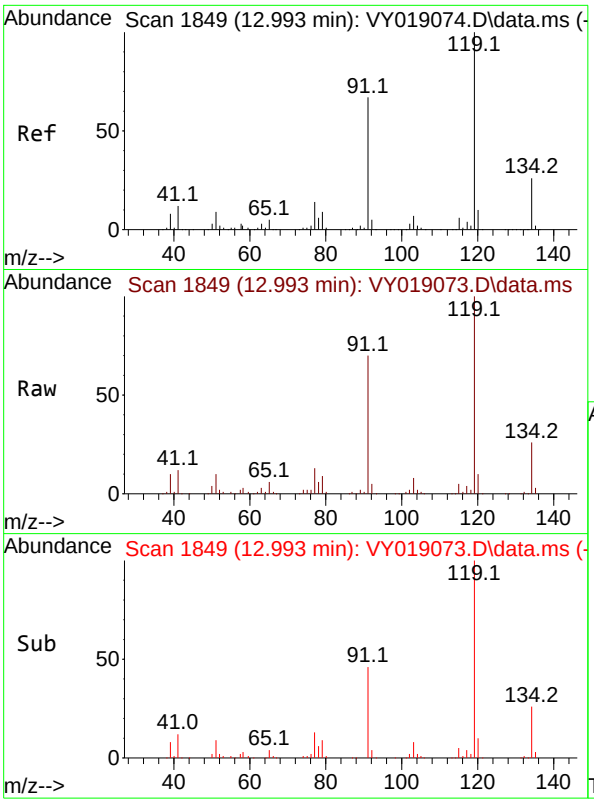


#82
4-Chlorotoluene
Concen: 19.677 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 91 Resp: 89551

Ion	Ratio	Lower	Upper
91	100		
126	36.9	17.6	52.9

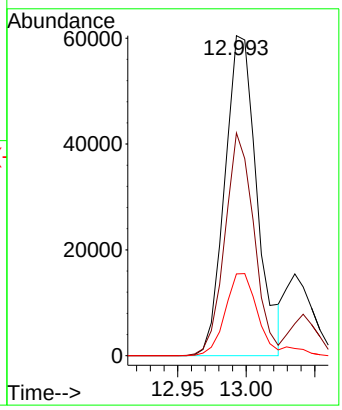




#83
tert-Butylbenzene
Concen: 20.072 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:119 Resp: 9856

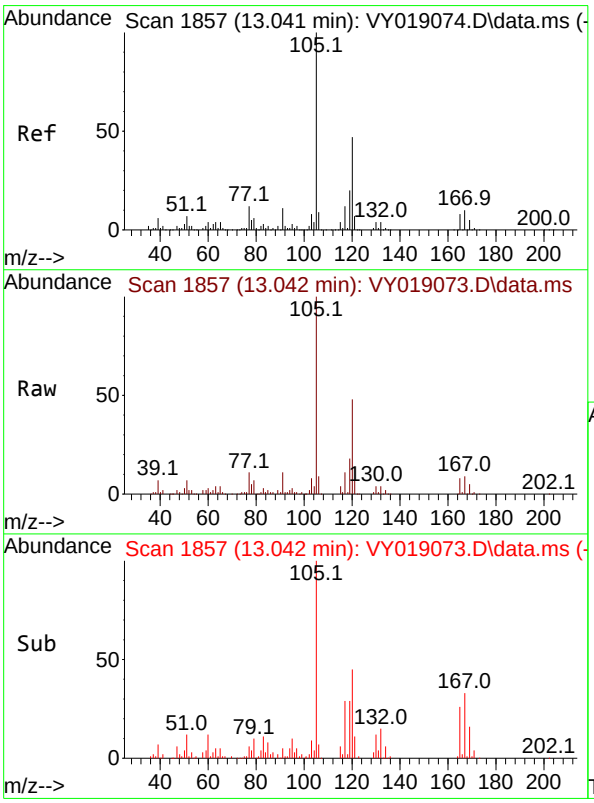
Ion	Ratio	Lower	Upper
119	100		
91	63.3	31.3	93.8
134	27.2	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

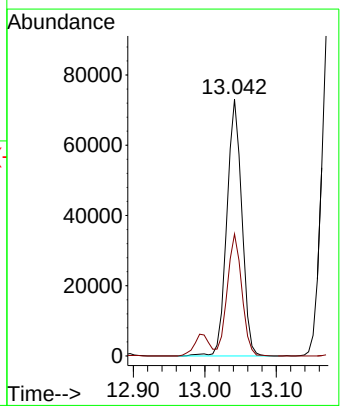
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

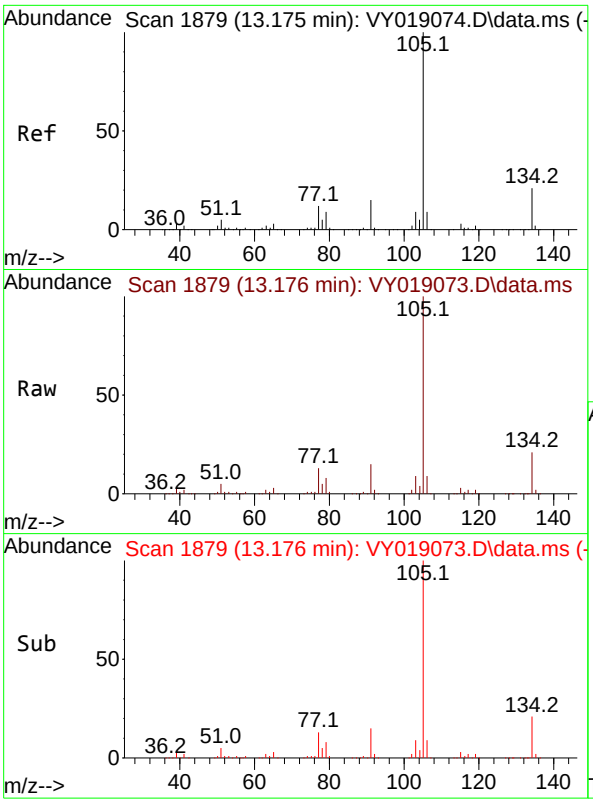


#84
1,2,4-Trimethylbenzene
Concen: 20.041 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:105 Resp: 106207

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.2	69.6

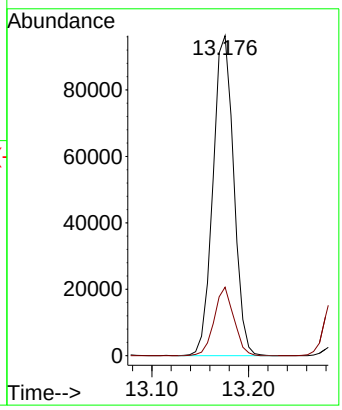




#85
sec-Butylbenzene
Concen: 20.010 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:105 Resp: 14318

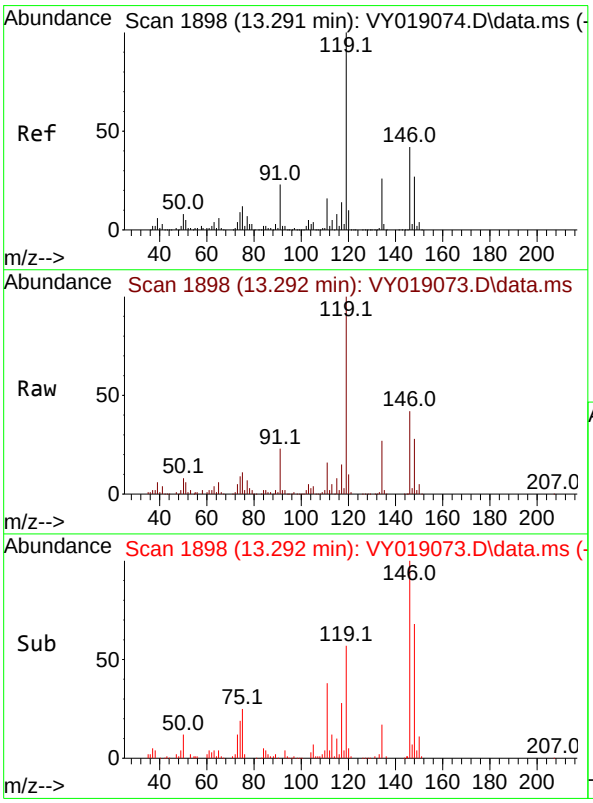
Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

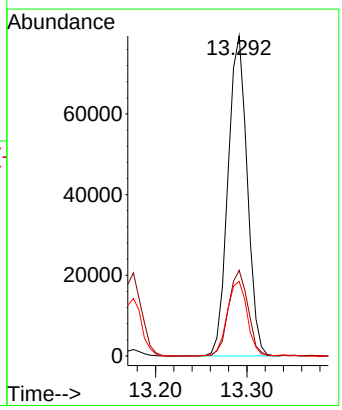
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

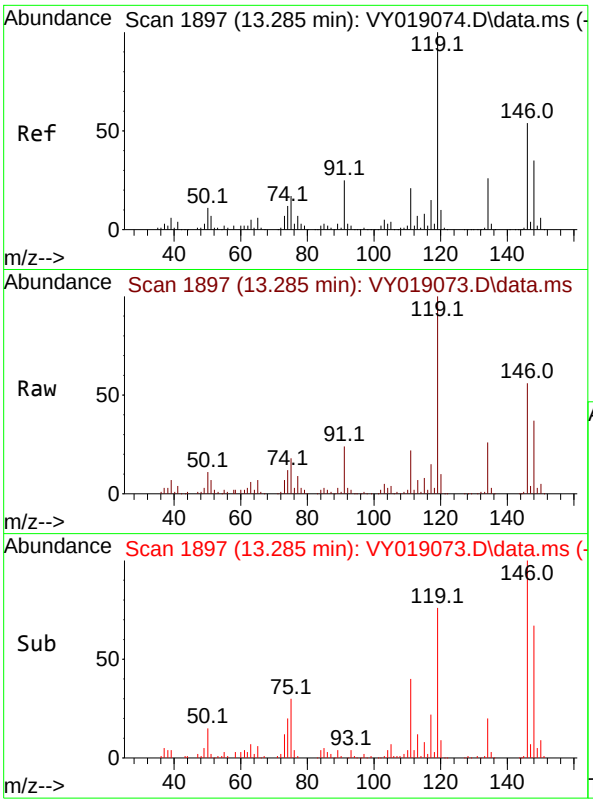


#86
p-Isopropyltoluene
Concen: 19.753 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:119 Resp: 116101

Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.1	39.3
91	24.3	10.7	32.1

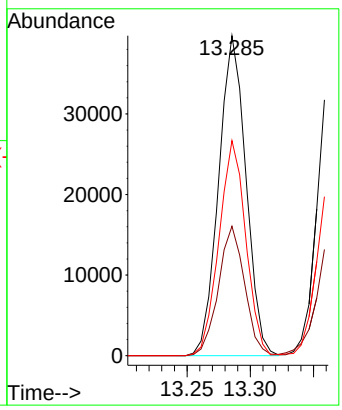




#87
1,3-Dichlorobenzene
Concen: 19.287 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:146 Resp: 5962

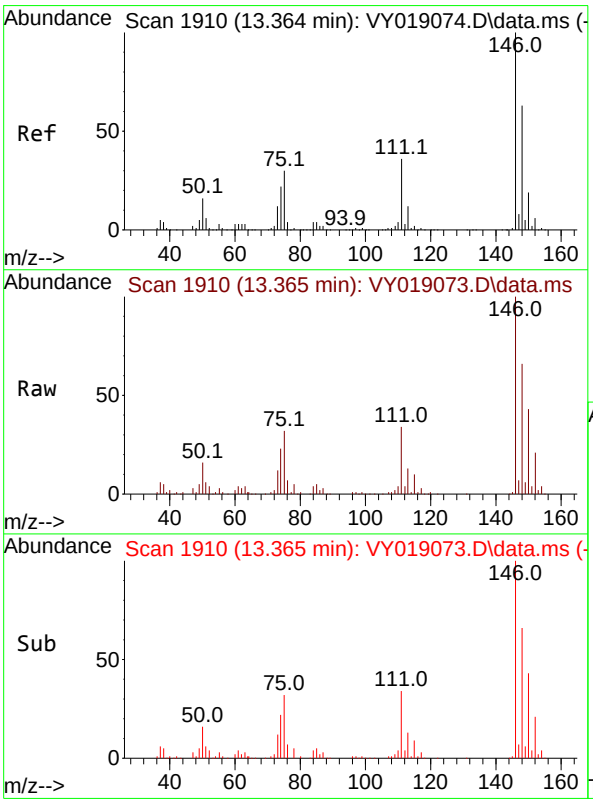
Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.0	57.0
148	65.8	31.7	95.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

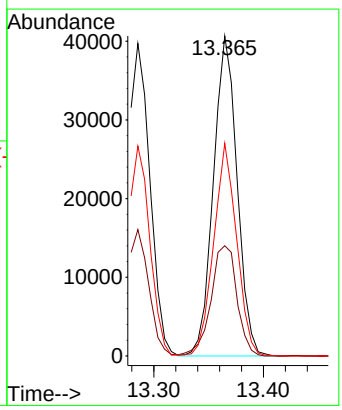
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

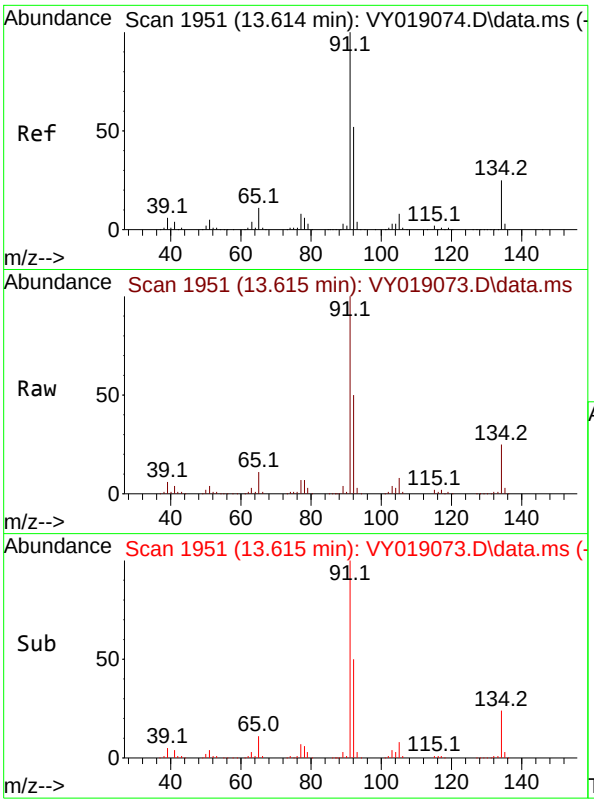


#88
1,4-Dichlorobenzene
Concen: 19.898 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:146 Resp: 61144

Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.4	55.4
148	64.4	32.4	97.2

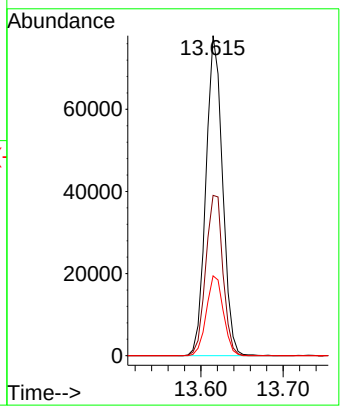




#89
n-Butylbenzene
Concen: 20.401 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 91 Resp: 10932

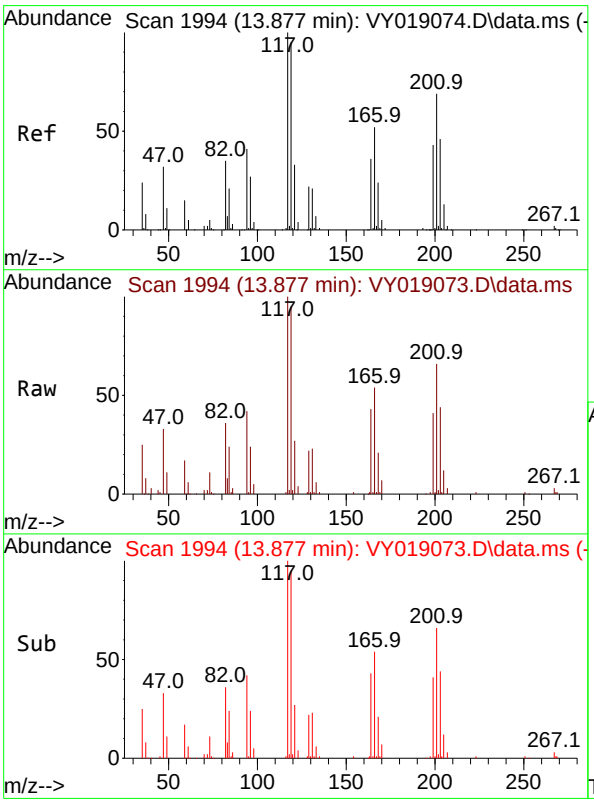
Ion	Ratio	Lower	Upper
91	100		
92	51.9	26.6	79.7
134	25.6	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

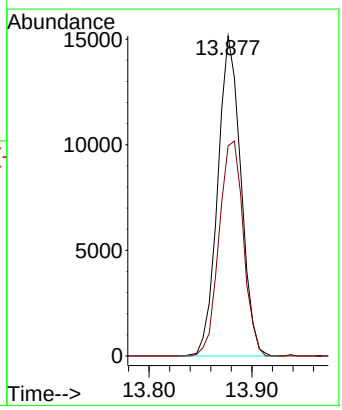
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

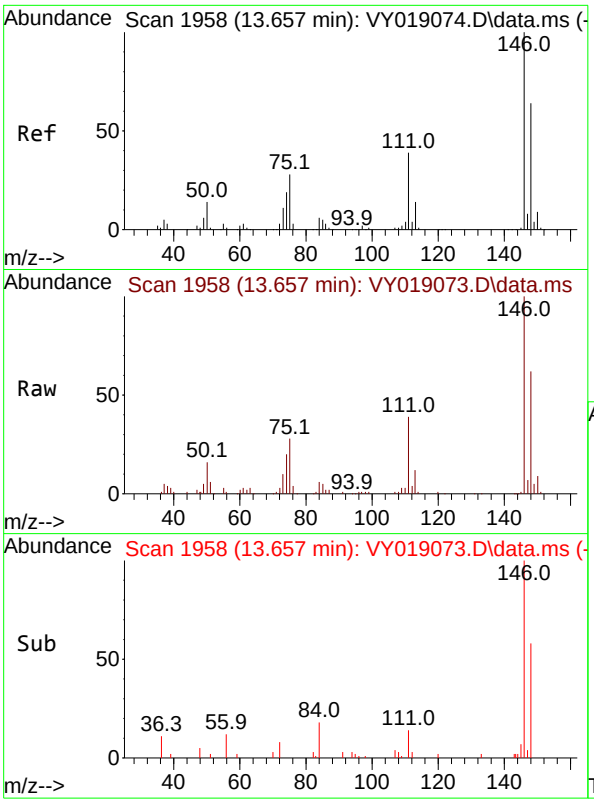


#90
Hexachloroethane
Concen: 20.380 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:117 Resp: 23610

Ion	Ratio	Lower	Upper
117	100		
201	70.6	37.4	112.2

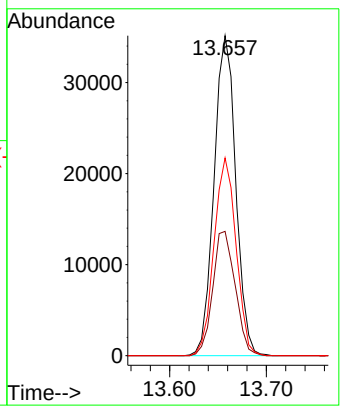




#91
1,2-Dichlorobenzene
Concen: 20.136 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:146 Resp: 5474

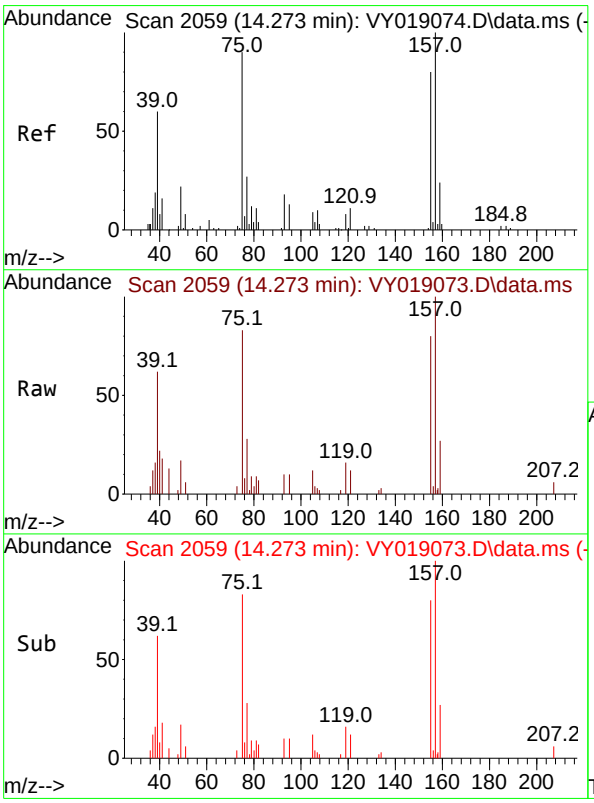
Ion	Ratio	Lower	Upper
146	100		
111	40.2	19.9	59.7
148	62.7	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

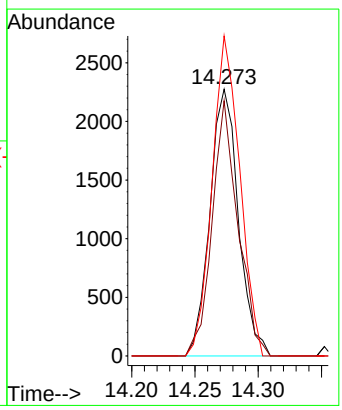
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

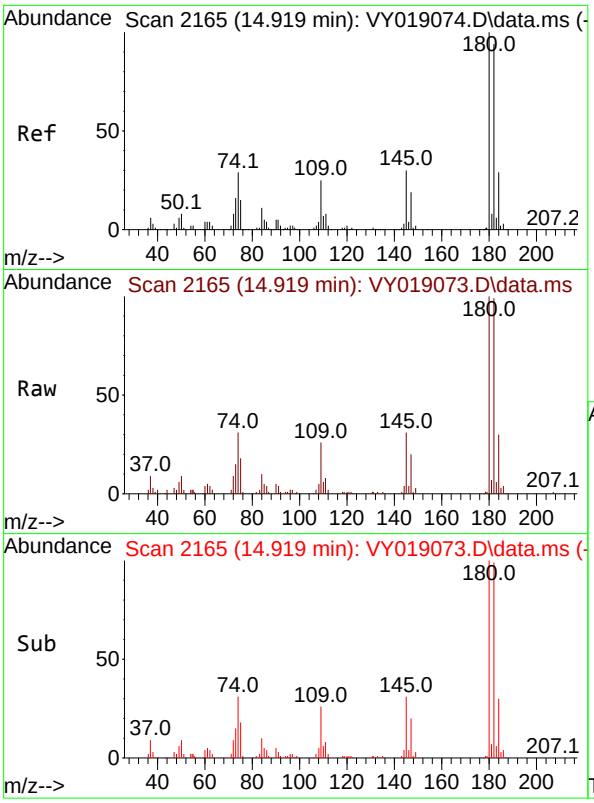


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.814 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion: 75 Resp: 3558

Ion	Ratio	Lower	Upper
75	100		
155	87.3	48.6	145.8
157	116.8	62.7	188.2

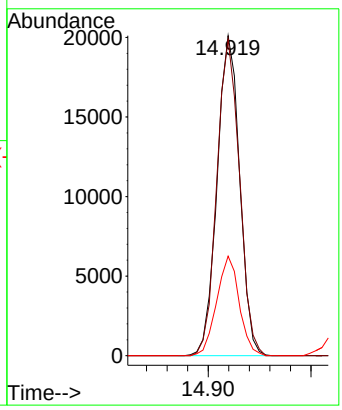




#93
1,2,4-Trichlorobenzene
Concen: 19.977 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:180 Resp: 3063

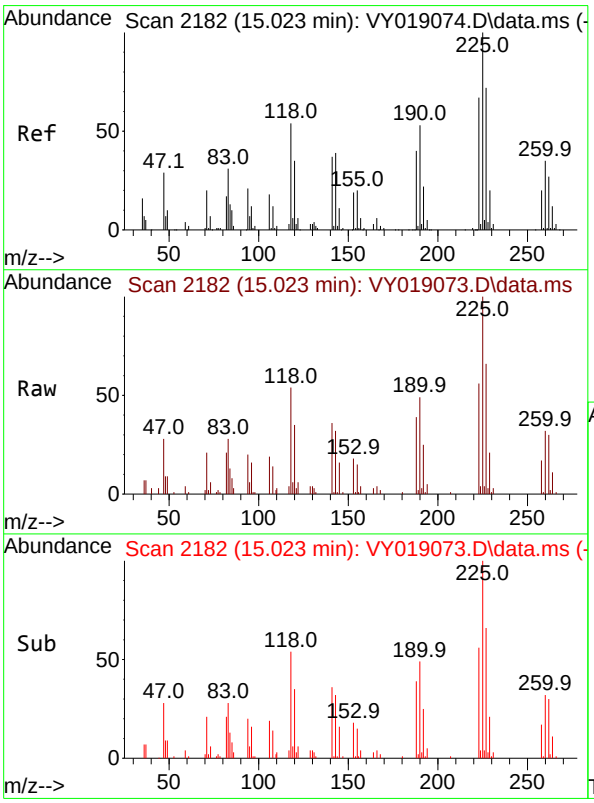
Ion	Ratio	Lower	Upper
180	100		
182	98.9	47.9	143.8
145	31.1	14.2	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

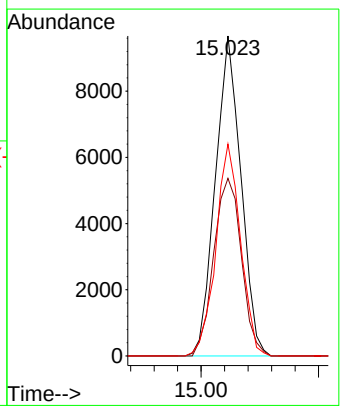
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

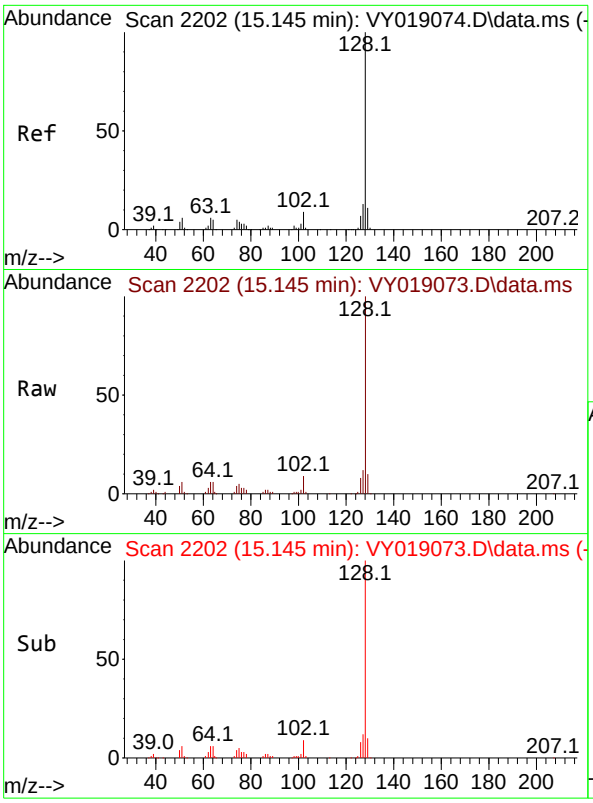


#94
Hexachlorobutadiene
Concen: 18.299 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:225 Resp: 14614

Ion	Ratio	Lower	Upper
225	100		
223	60.1	30.4	91.2
227	64.1	31.9	95.9

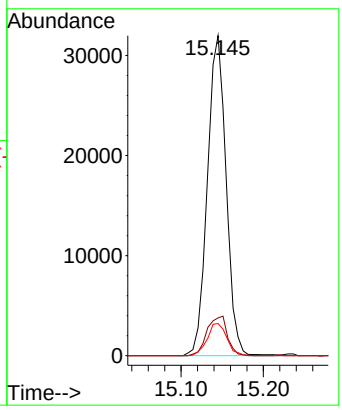




#95
Naphthalene
Concen: 18.474 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:128 Resp: 5055

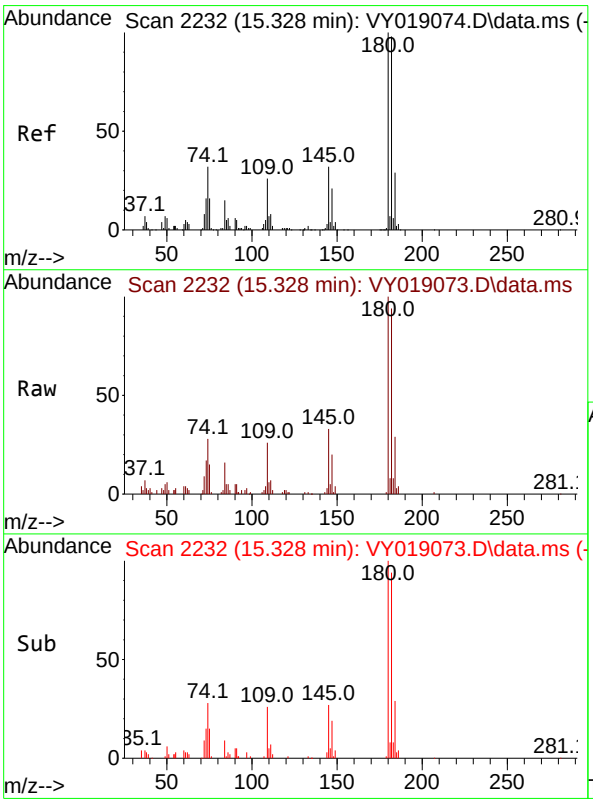
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	10.5	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

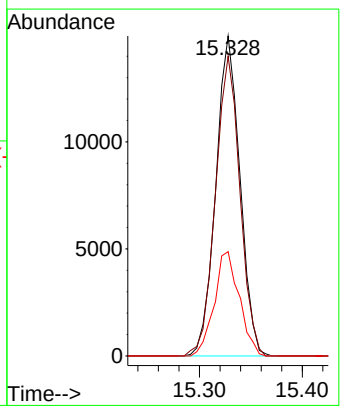
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024



#96
1,2,3-Trichlorobenzene
Concen: 18.839 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY019073.D
Acq: 15 Aug 2024 18:37

Tgt Ion:180 Resp: 24362

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.6	142.9
145	33.8	15.4	46.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019074.D
Acq On : 15 Aug 2024 19:01
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 04:58:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.695	168	132021	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.603	114	206283	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	182242	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	93718	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.048	65	62801	47.454	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 94.900%			
35) Dibromofluoromethane	7.622	113	67223	49.839	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.680%			
50) Toluene-d8	10.103	98	234706	48.354	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.700%			
62) 4-Bromofluorobenzene	12.401	95	83933	50.725	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 101.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.860	85	50080	51.703	ug/l	97
3) Chloromethane	2.062	50	85220	48.811	ug/l	99
4) Vinyl Chloride	2.196	62	106529	49.397	ug/l	99
5) Bromomethane	2.586	94	70376	53.908	ug/l	100
6) Chloroethane	2.726	64	67869	49.449	ug/l	100
7) Trichlorofluoromethane	3.043	101	160358	49.182	ug/l	95
8) Diethyl Ether	3.439	74	33912	48.186	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.799	101	70196	48.428	ug/l	98
10) Methyl Iodide	3.988	142	79503	55.958	ug/l	95
11) Tert butyl alcohol	4.842	59	28343	251.604	ug/l #	83
12) 1,1-Dichloroethene	3.775	96	64181	48.736	ug/l	98
13) Acrolein	3.635	56	25019	251.865	ug/l	94
14) Allyl chloride	4.366	41	87780	50.135	ug/l	92
15) Acrylonitrile	5.043	53	75137	260.925	ug/l	98
16) Acetone	3.854	43	64332	262.120	ug/l	92
17) Carbon Disulfide	4.092	76	186167	50.120	ug/l	98
18) Methyl Acetate	4.372	43	37009	49.132	ug/l	98
19) Methyl tert-butyl Ether	5.098	73	164248	51.444	ug/l	98
20) Methylene Chloride	4.604	84	78540	51.921	ug/l	99
21) trans-1,2-Dichloroethene	5.098	96	74408	50.574	ug/l	96
22) Diisopropyl ether	6.000	45	201730	50.329	ug/l	91
23) Vinyl Acetate	5.945	43	822131	259.073	ug/l	97
24) 1,1-Dichloroethane	5.902	63	119286	48.664	ug/l	98
25) 2-Butanone	6.872	43	102402	259.077	ug/l	91
26) 2,2-Dichloropropane	6.866	77	97533	49.136	ug/l	99
27) cis-1,2-Dichloroethene	6.872	96	86468	49.940	ug/l	99
28) Bromochloromethane	7.225	49	48329	47.002	ug/l	98
29) Tetrahydrofuran	7.244	42	64126	252.383	ug/l	93
30) Chloroform	7.408	83	138414	50.676	ug/l	98
31) Cyclohexane	7.689	56	98302	52.108	ug/l	97
32) 1,1,1-Trichloroethane	7.603	97	121481	50.609	ug/l	98
36) 1,1-Dichloropropene	7.823	75	91479	49.391	ug/l	98
37) Ethyl Acetate	6.969	43	45044	54.892	ug/l	99
38) Carbon Tetrachloride	7.805	117	111389	51.895	ug/l	99
39) Methylcyclohexane	9.097	83	119969	50.474	ug/l	100
40) Benzene	8.067	78	288131	50.723	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019074.D
Acq On : 15 Aug 2024 19:01
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 04:58:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	24730m	58.284	ug/l		
42) 1,2-Dichloroethane	8.146	62	79373	51.744	ug/l		96
43) Isopropyl Acetate	8.182	43	86710	52.249	ug/l		93
44) Trichloroethene	8.853	130	78592	49.585	ug/l		98
45) 1,2-Dichloropropane	9.127	63	63928	50.511	ug/l		96
46) Dibromomethane	9.219	93	43174	52.595	ug/l		97
47) Bromodichloromethane	9.414	83	102928	51.108	ug/l		94
48) Methyl methacrylate	9.207	41	39203	53.005	ug/l	#	89
49) 1,4-Dioxane	9.213	88	10236	1029.391	ug/l	#	95
51) 4-Methyl-2-Pentanone	9.993	43	238860	271.178	ug/l		95
52) Toluene	10.164	92	188041	50.430	ug/l		98
53) t-1,3-Dichloropropene	10.383	75	87574	52.420	ug/l		99
54) cis-1,3-Dichloropropene	9.847	75	107301	53.407	ug/l	#	89
55) 1,1,2-Trichloroethane	10.566	97	54118	51.212	ug/l		96
56) Ethyl methacrylate	10.432	69	74435	53.815	ug/l	#	86
57) 1,3-Dichloropropane	10.713	76	89546	51.982	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.700	63	166792	254.188	ug/l		95
59) 2-Hexanone	10.755	43	163845	270.754	ug/l		93
60) Dibromochloromethane	10.908	129	75051	52.144	ug/l		98
61) 1,2-Dibromoethane	11.011	107	53533	52.413	ug/l		100
64) Tetrachloroethene	10.639	164	77297	48.525	ug/l		98
65) Chlorobenzene	11.438	112	209797	49.995	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.511	131	74516	50.495	ug/l		98
67) Ethyl Benzene	11.517	91	367359	50.438	ug/l		95
68) m/p-Xylenes	11.627	106	293367	101.511	ug/l		99
69) o-Xylene	11.950	106	139883	52.268	ug/l		98
70) Styrene	11.968	104	238425	52.243	ug/l		98
71) Bromoform	12.127	173	44861	53.179	ug/l	#	97
73) Isopropylbenzene	12.255	105	360918	50.246	ug/l		99
74) N-amyl acetate	12.072	43	81937	52.312	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.505	83	64224	50.222	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	44388m	49.866	ug/l		
77) Bromobenzene	12.529	156	85489	49.557	ug/l		98
78) n-propylbenzene	12.596	91	430996	50.193	ug/l		98
79) 2-Chlorotoluene	12.676	91	240856	50.031	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	295936	50.573	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	19163	51.206	ug/l		89
82) 4-Chlorotoluene	12.779	91	250346	49.983	ug/l		98
83) tert-Butylbenzene	12.993	119	270233	50.007	ug/l		99
84) 1,2,4-Trimethylbenzene	13.041	105	294570	50.508	ug/l		99
85) sec-Butylbenzene	13.175	105	394484	50.094	ug/l		98
86) p-Isopropyltoluene	13.291	119	329259	50.903	ug/l		97
87) 1,3-Dichlorobenzene	13.285	146	169666	49.872	ug/l		99
88) 1,4-Dichlorobenzene	13.364	146	167665	49.579	ug/l		99
89) n-Butylbenzene	13.614	91	304427	51.621	ug/l		98
90) Hexachloroethane	13.877	117	65210	51.147	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	150504	50.300	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	9622	51.147	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	87347	51.765	ug/l		98
94) Hexachlorobutadiene	15.023	225	46512	52.921	ug/l		96
95) Naphthalene	15.145	128	168350	55.903	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	76286	53.603	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019074.D
Acq On : 15 Aug 2024 19:01
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 04:58:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

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

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

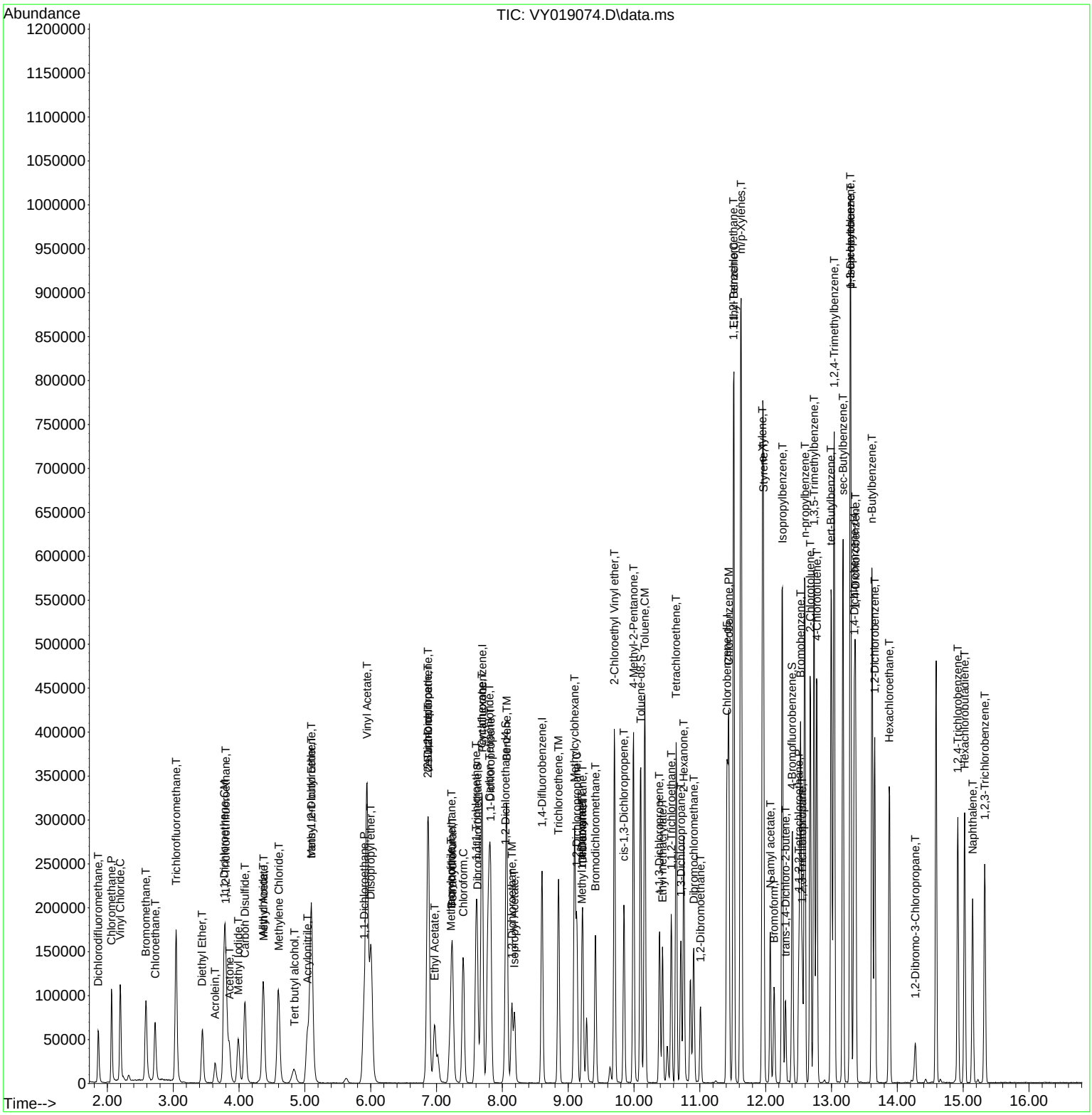
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019074.D
Acq On : 15 Aug 2024 19:01
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

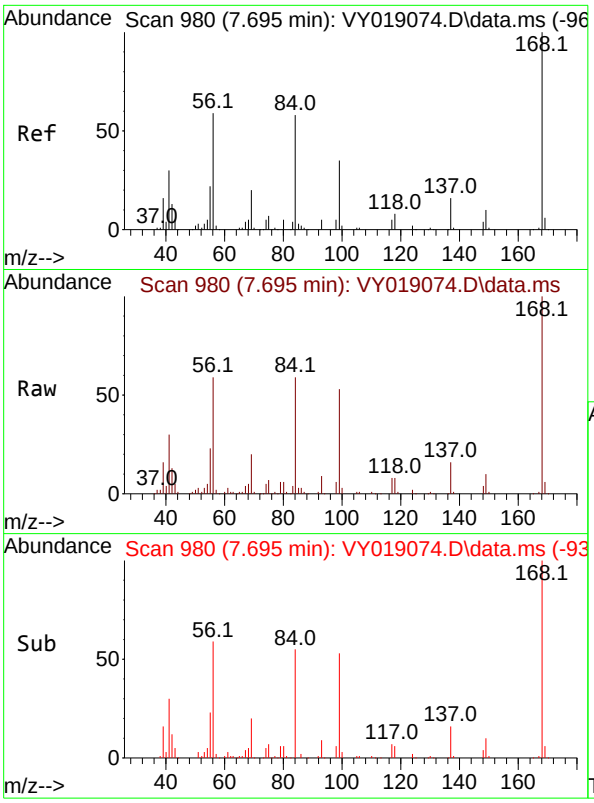
Quant Time: Aug 16 04:58:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

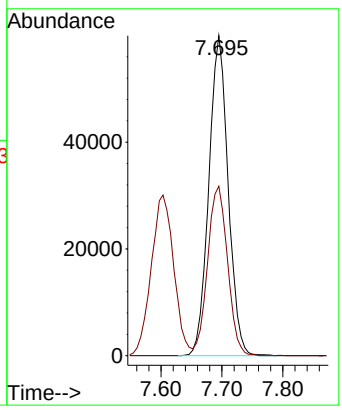




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:168 Resp: 13202

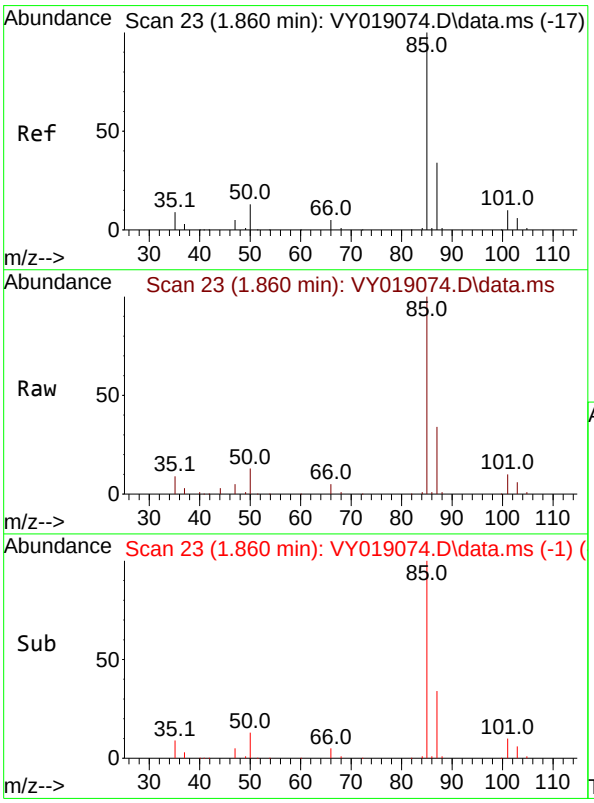
Ion	Ratio	Lower	Upper
168	100		
99	52.8	39.1	58.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

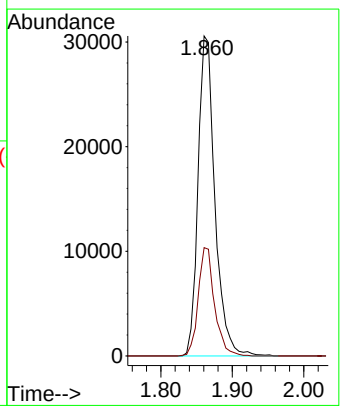
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

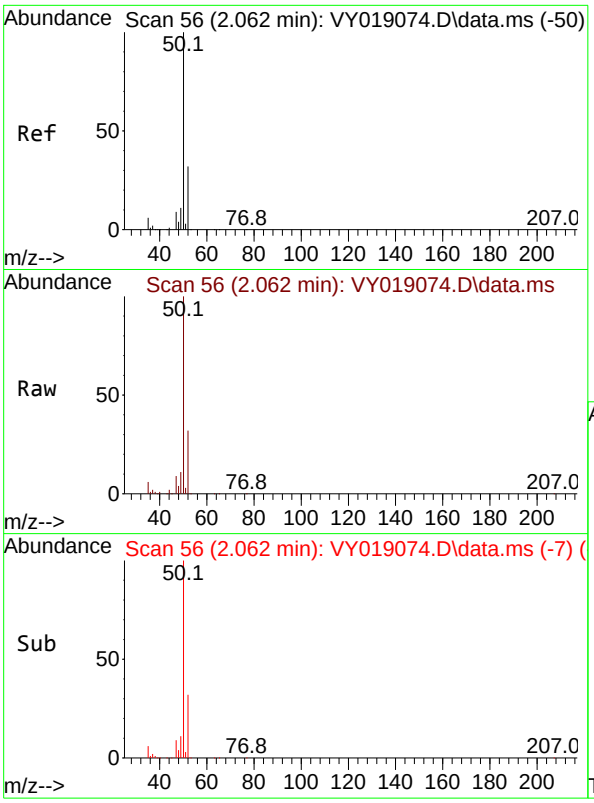


#2
Dichlorodifluoromethane
Concen: 51.703 ug/l
RT: 1.860 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 85 Resp: 50080

Ion	Ratio	Lower	Upper
85	100		
87	33.9	16.0	48.0

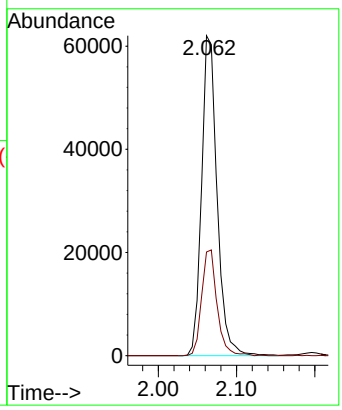




#3
Chloromethane
Concen: 48.811 ug/l
RT: 2.062 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 50 Resp: 8522(

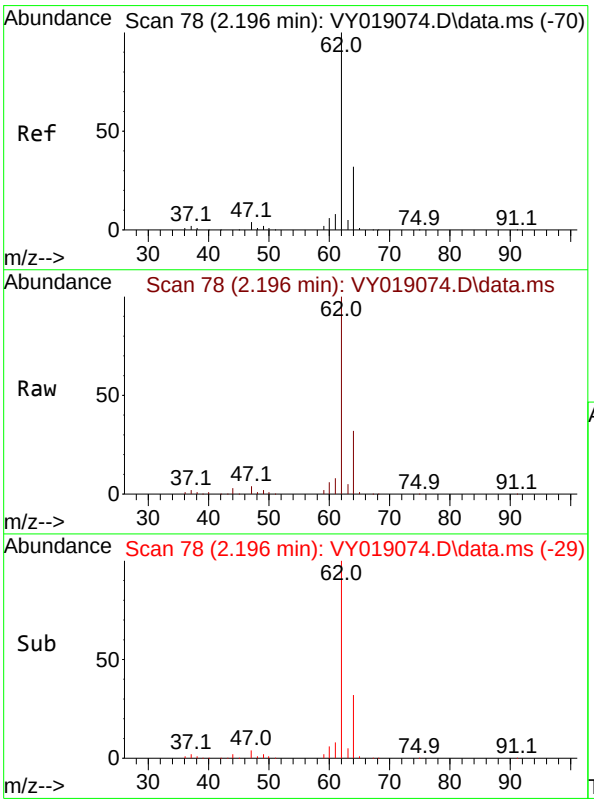
Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

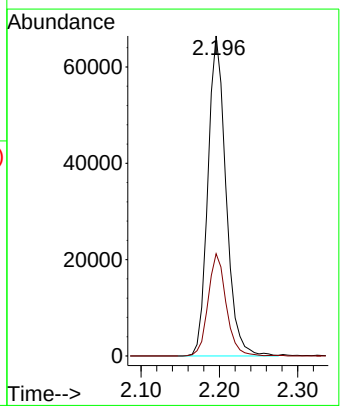
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

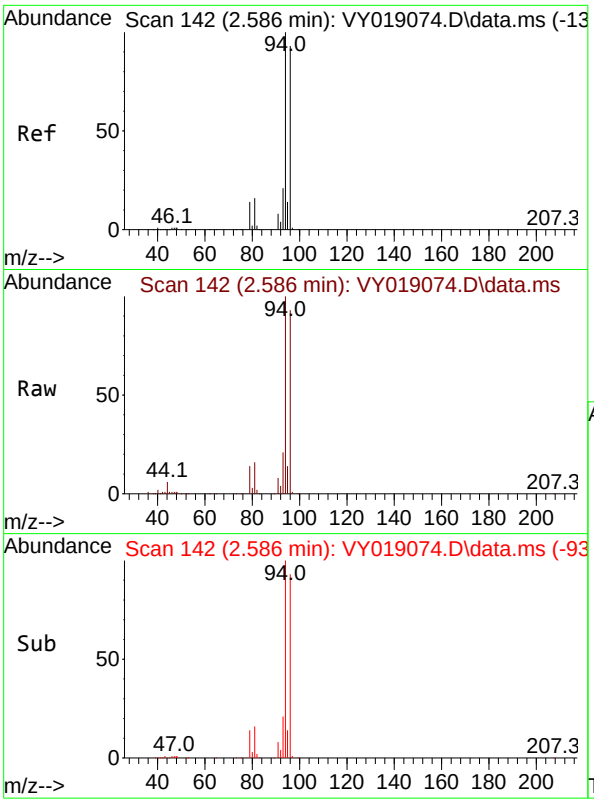


#4
Vinyl Chloride
Concen: 49.397 ug/l
RT: 2.196 min Scan# 78
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 62 Resp: 106529

Ion	Ratio	Lower	Upper
62	100		
64	32.0	26.1	39.1





#5
Bromomethane
Concen: 53.908 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

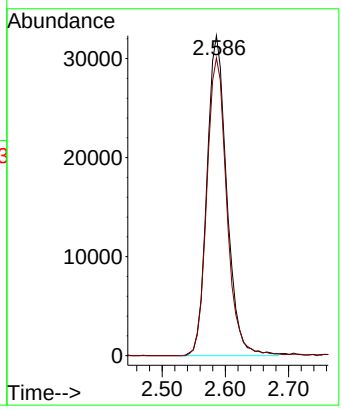
Tgt Ion: 94 Resp: 7037

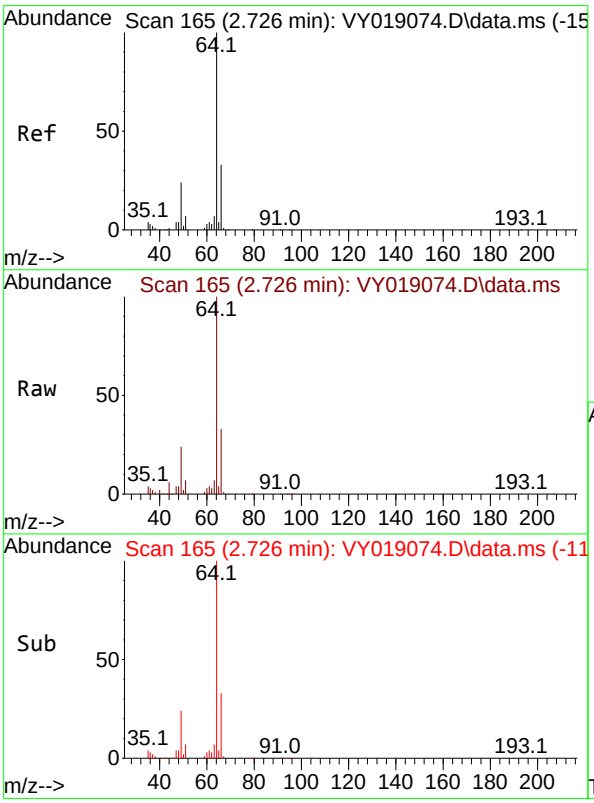
Ion	Ratio	Lower	Upper
94	100		
96	93.1	74.1	111.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

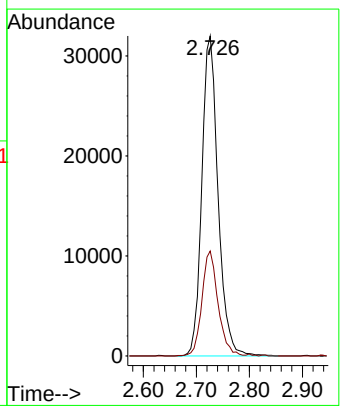


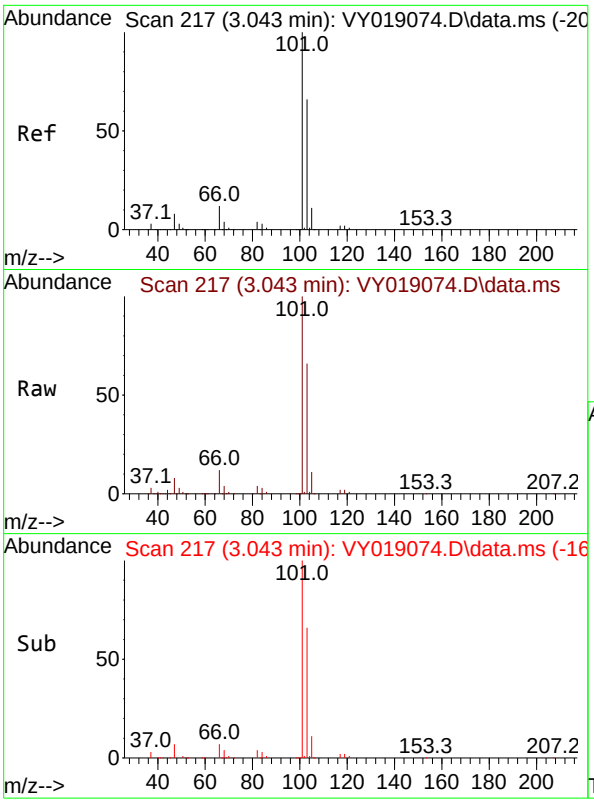


#6
Chloroethane
Concen: 49.449 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 64 Resp: 67869

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.1	39.1

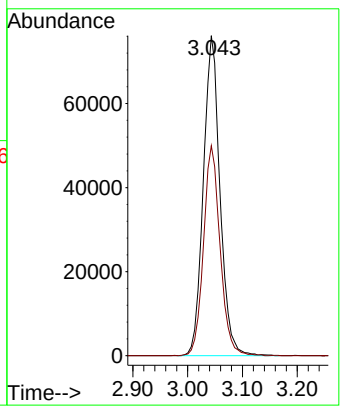




#7
Trichlorofluoromethane
Concen: 49.182 ug/l
RT: 3.043 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:101 Resp: 160358

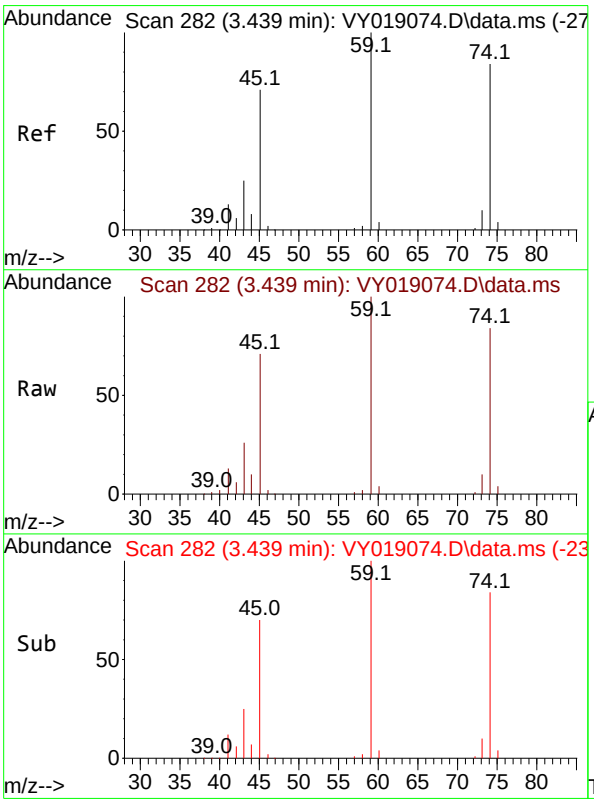
Ion	Ratio	Lower	Upper
101	100		
103	65.6	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

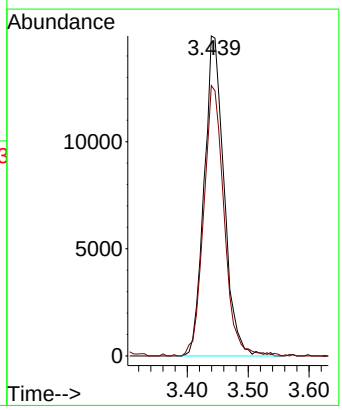
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

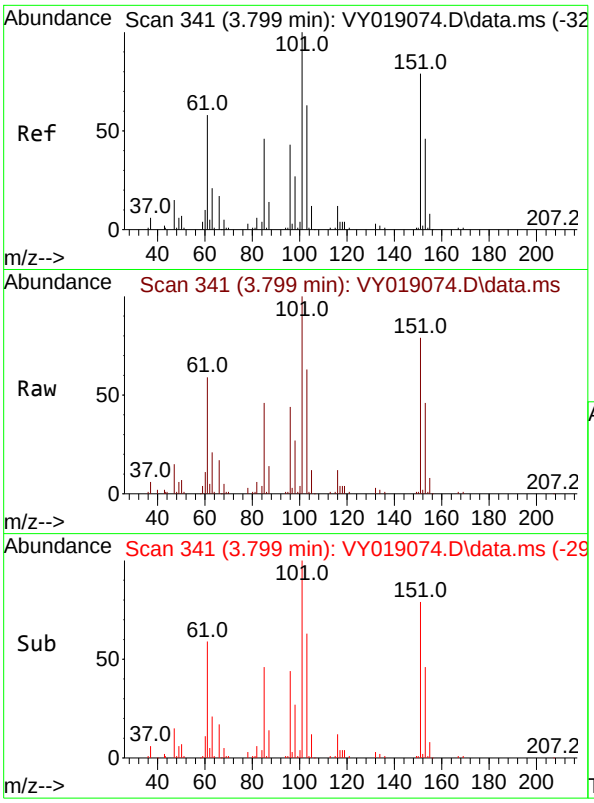


#8
Diethyl Ether
Concen: 48.186 ug/l
RT: 3.439 min Scan# 282
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 74 Resp: 33912

Ion	Ratio	Lower	Upper
74	100		
45	86.1	41.3	124.1

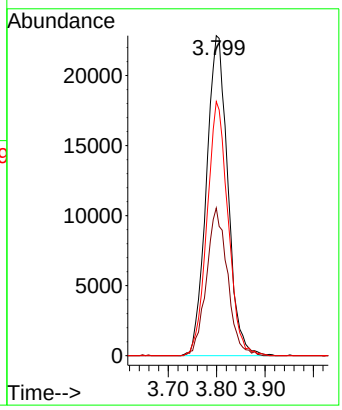




#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.428 ug/l
RT: 3.799 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:101 Resp: 7019

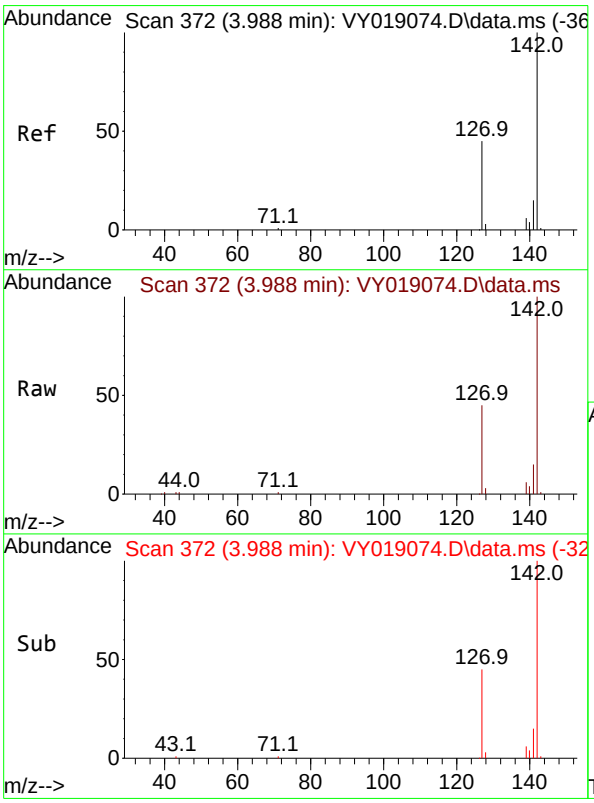
Ion	Ratio	Lower	Upper
101	100		
85	45.3	34.5	51.7
151	78.1	61.7	92.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

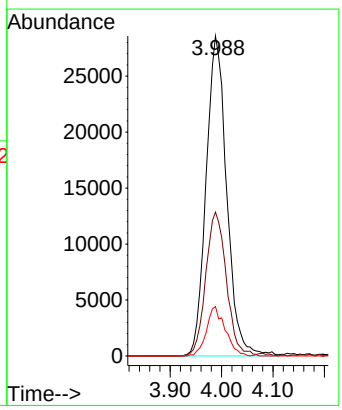
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

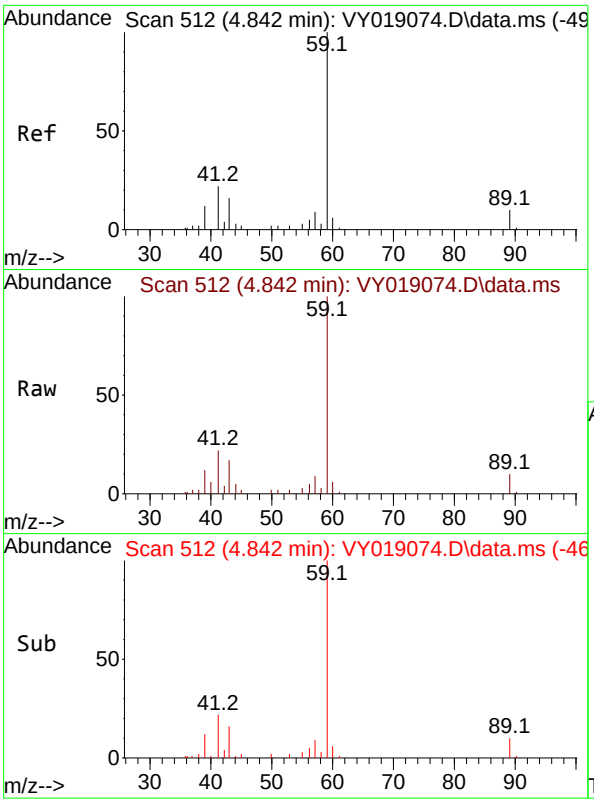


#10
Methyl Iodide
Concen: 55.958 ug/l
RT: 3.988 min Scan# 372
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:142 Resp: 79503

Ion	Ratio	Lower	Upper
142	100		
127	44.9	32.8	49.2
141	14.0	11.4	17.2

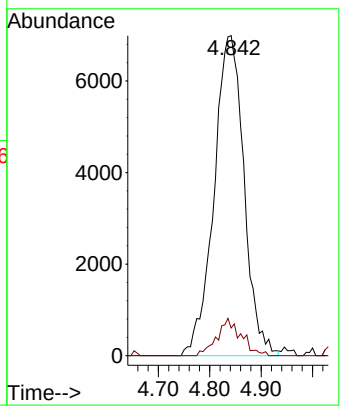




#11
Tert butyl alcohol
Concen: 251.604 ug/l
RT: 4.842 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 59 Resp: 2834

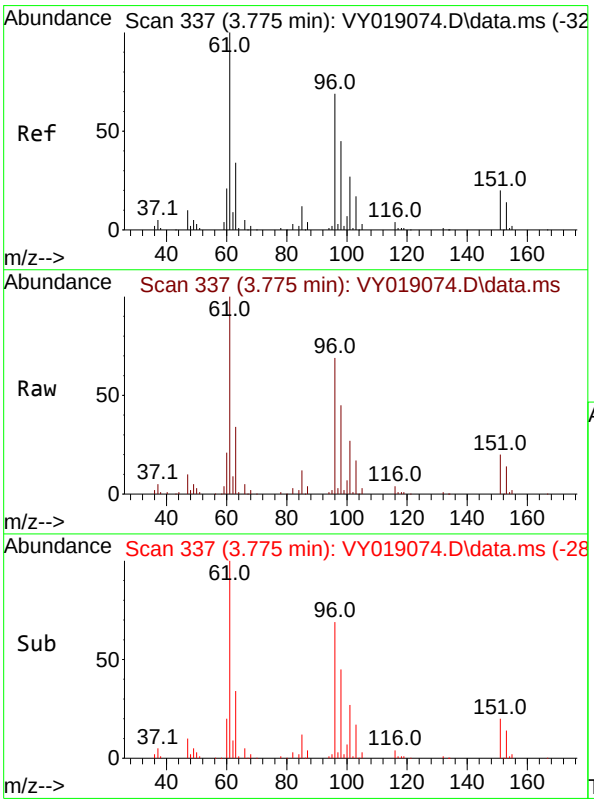
Ion	Ratio	Lower	Upper
59	100		
57	9.4	3.0	4.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

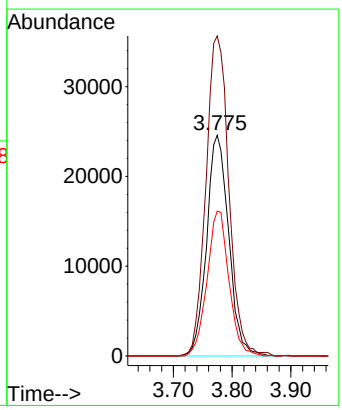
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

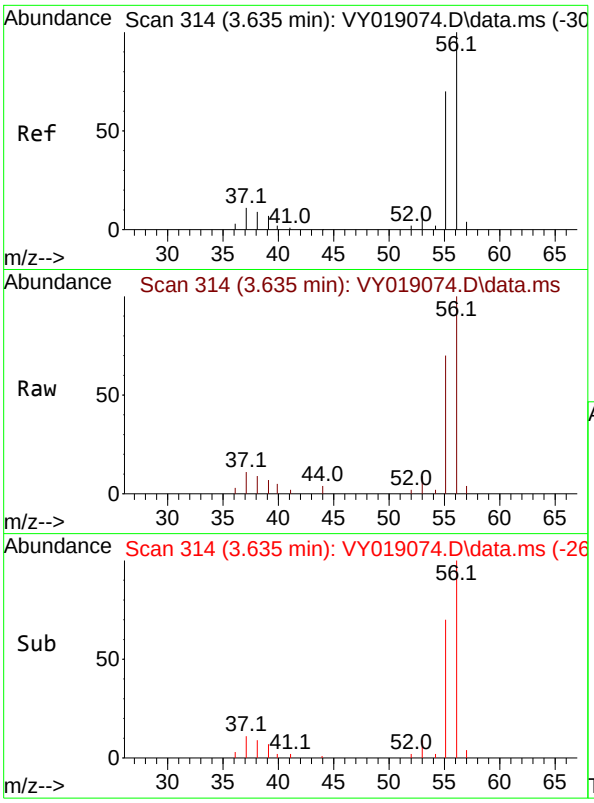


#12
1,1-Dichloroethene
Concen: 48.736 ug/l
RT: 3.775 min Scan# 337
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 96 Resp: 64181

Ion	Ratio	Lower	Upper
96	100		
61	144.9	114.6	171.8
98	65.6	50.8	76.2

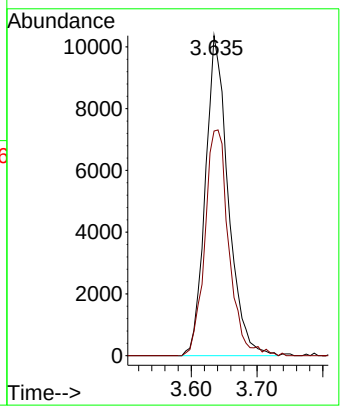




#13
Acrolein
Concen: 251.865 ug/l
RT: 3.635 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 56 Resp: 2501

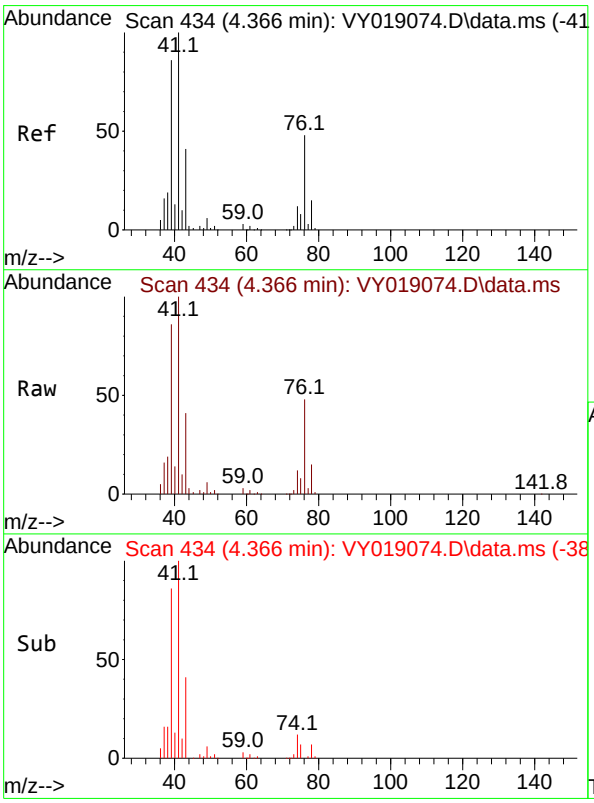
Ion	Ratio	Lower	Upper
56	100		
55	74.1	55.7	83.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

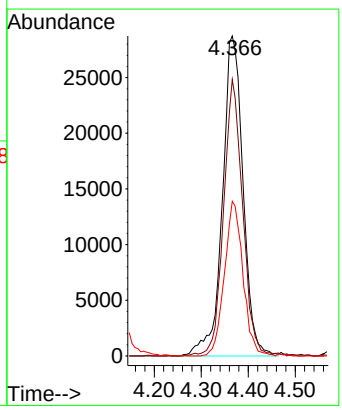
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

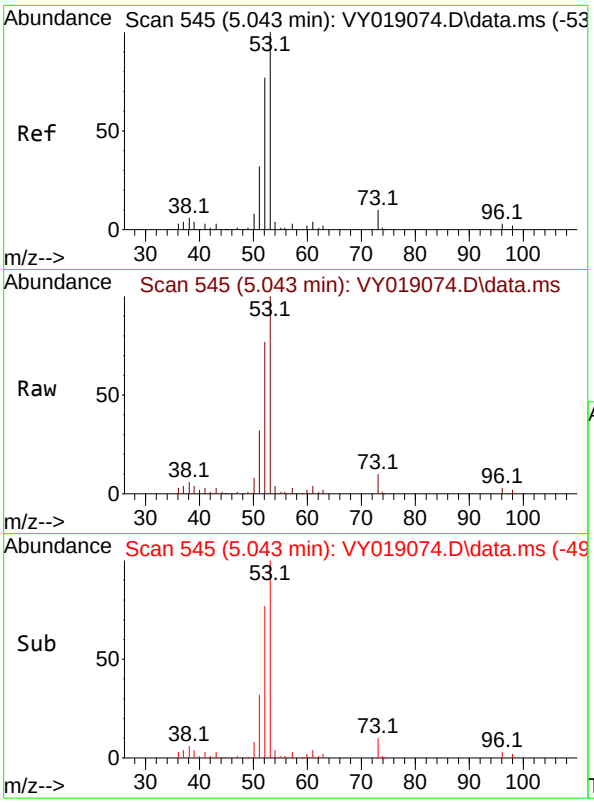


#14
Allyl chloride
Concen: 50.135 ug/l
RT: 4.366 min Scan# 434
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 41 Resp: 87780

Ion	Ratio	Lower	Upper
41	100		
39	79.9	58.3	87.5
76	43.4	39.0	58.6





#15
Acrylonitrile
Concen: 260.925 ug/l
RT: 5.043 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

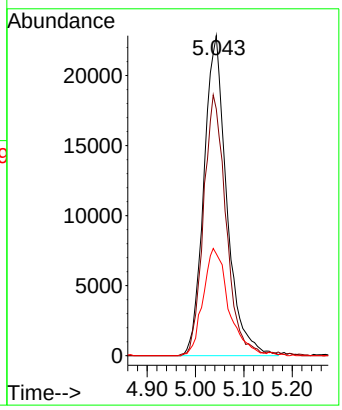
Tgt Ion: 53 Resp: 7513

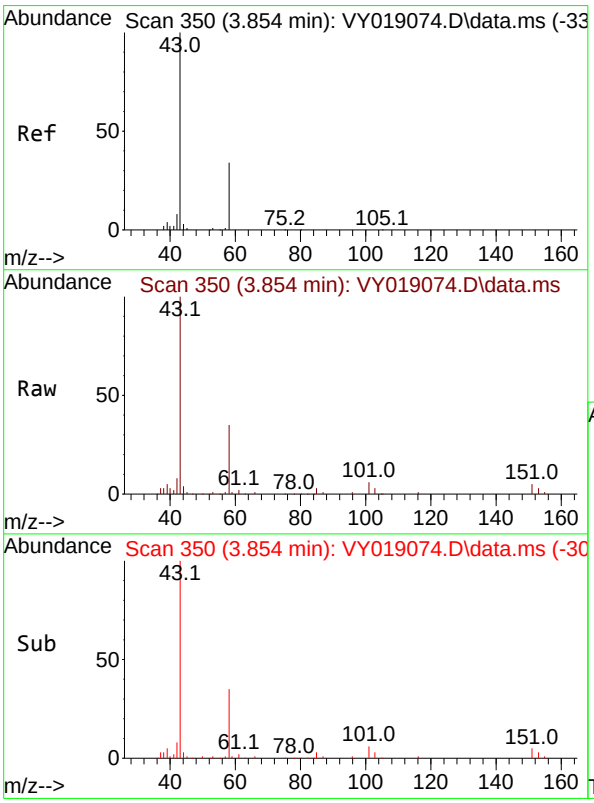
Ion	Ratio	Lower	Upper
53	100		
52	80.0	64.7	97.1
51	37.4	28.4	42.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

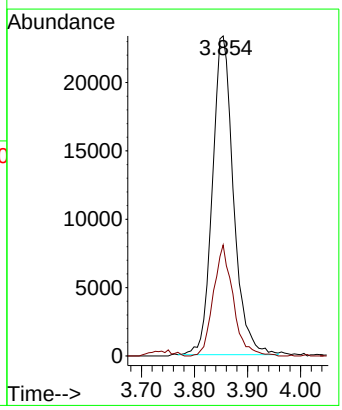


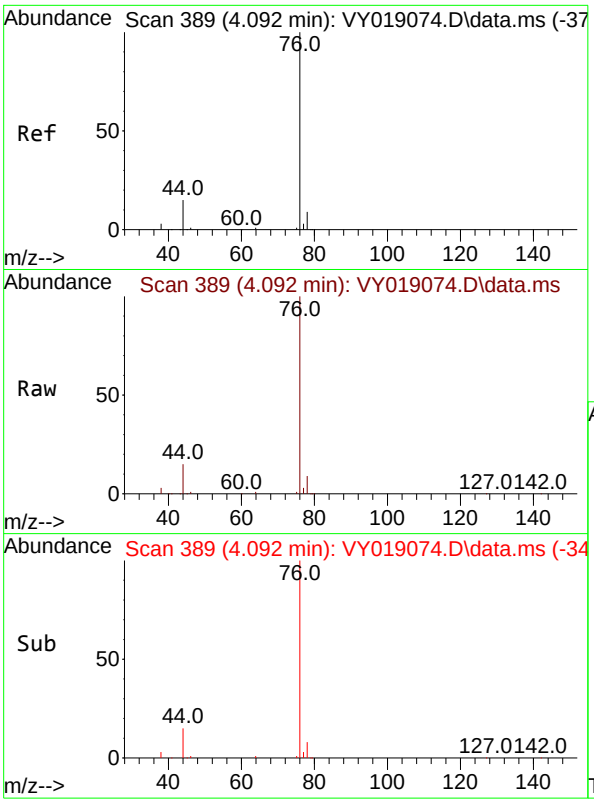


#16
Acetone
Concen: 262.120 ug/l
RT: 3.854 min Scan# 350
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 43 Resp: 64332

Ion	Ratio	Lower	Upper
43	100		
58	34.8	31.7	47.5





#17
Carbon Disulfide
Concen: 50.120 ug/l
RT: 4.092 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

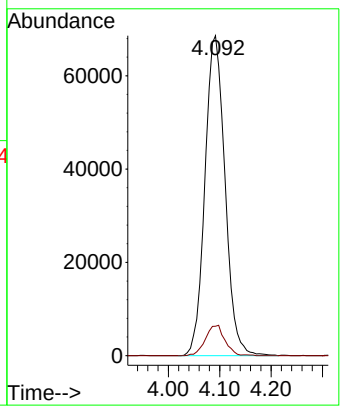
Tgt Ion: 76 Resp: 18616

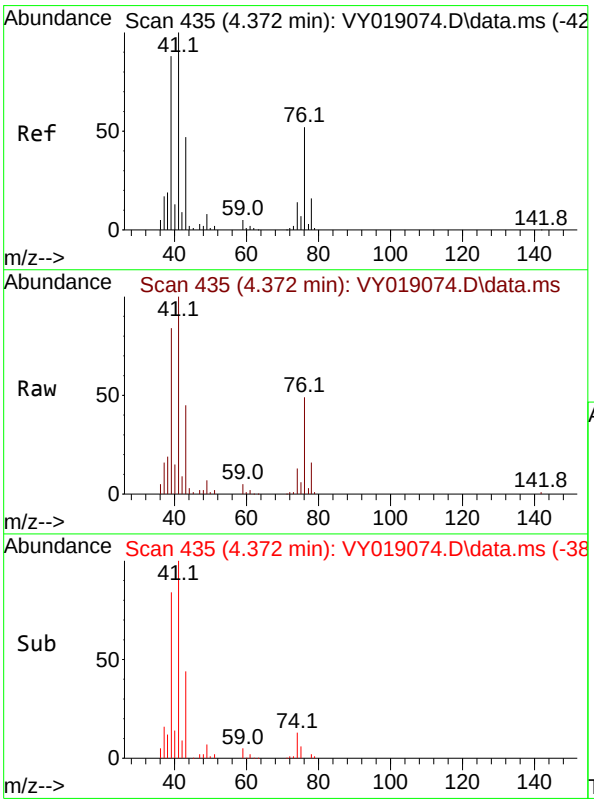
Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.8	10.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

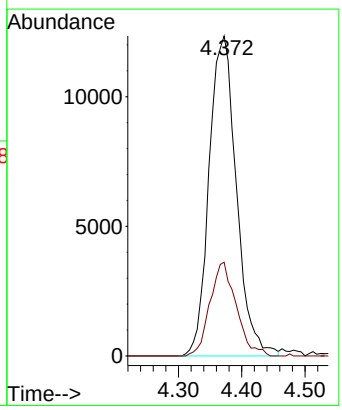


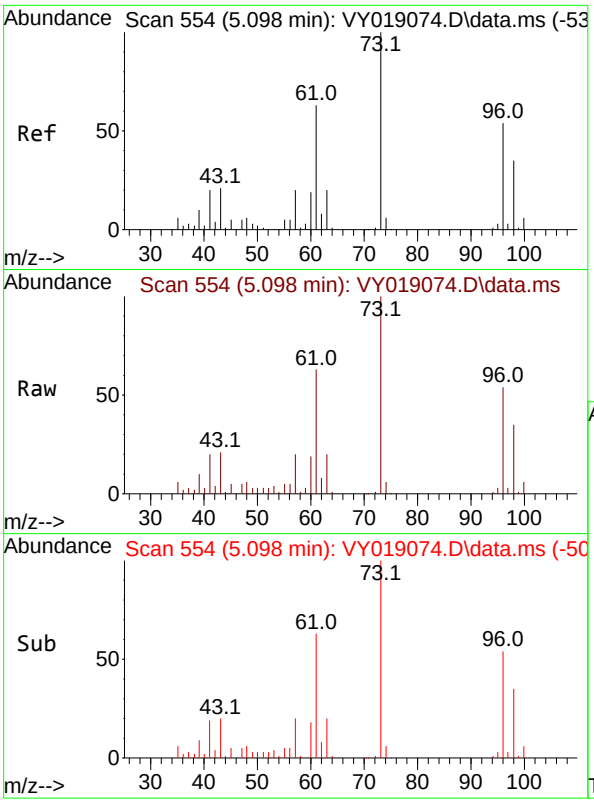


#18
Methyl Acetate
Concen: 49.132 ug/l
RT: 4.372 min Scan# 435
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 43 Resp: 37009

Ion	Ratio	Lower	Upper
43	100		
74	28.2	23.3	34.9

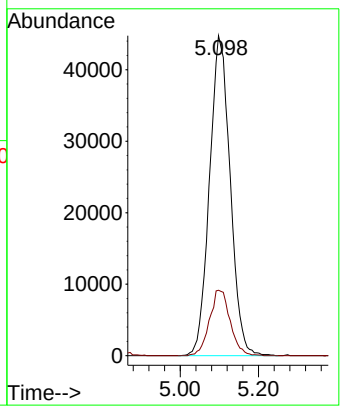




#19
Methyl tert-butyl Ether
Concen: 51.444 ug/l
RT: 5.098 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 73 Resp: 16424

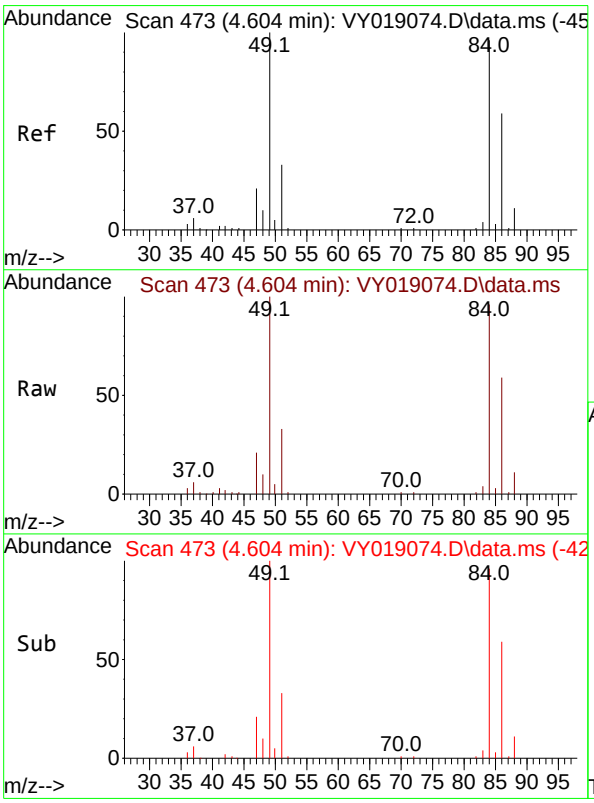
Ion	Ratio	Lower	Upper
73	100		
57	20.4	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

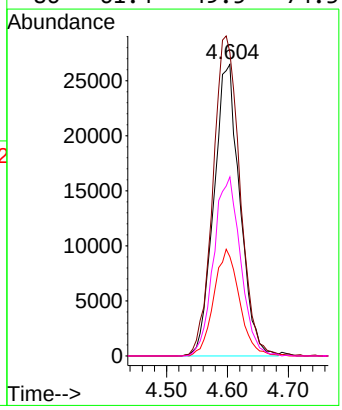
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

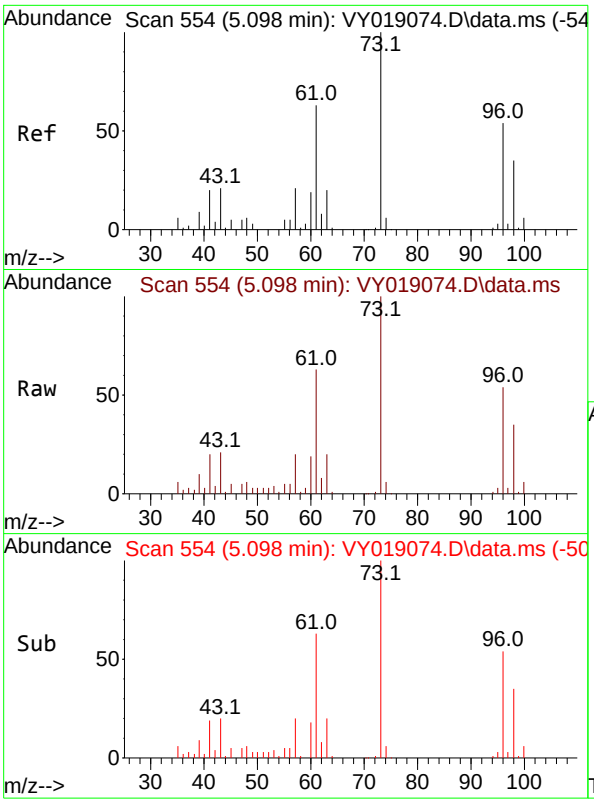


#20
Methylene Chloride
Concen: 51.921 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 84 Resp: 78540

Ion	Ratio	Lower	Upper
84	100		
49	104.1	84.4	126.6
51	34.0	26.0	39.0
86	61.4	49.5	74.3

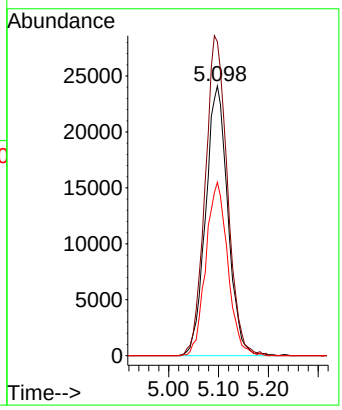




#21
trans-1,2-Dichloroethene
Concen: 50.574 ug/l
RT: 5.098 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 96 Resp: 7440

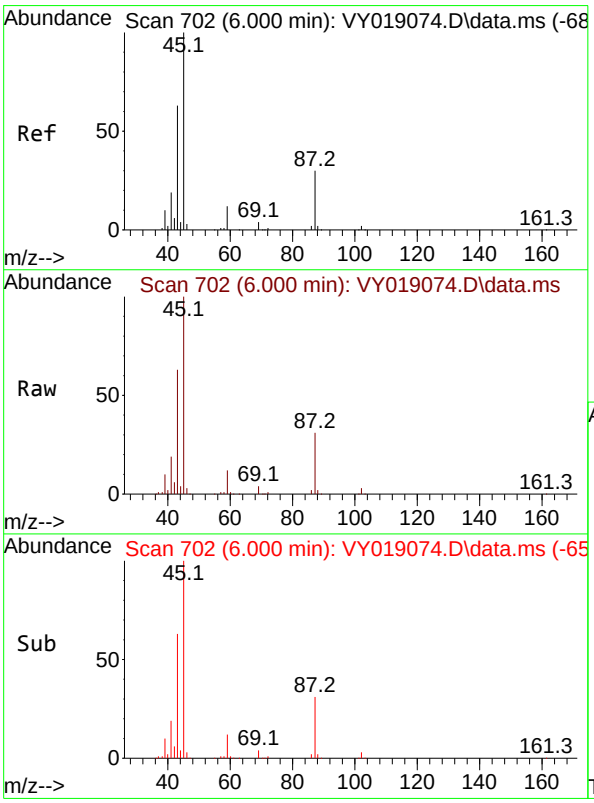
Ion	Ratio	Lower	Upper
96	100		
61	116.4	97.5	146.3
98	64.3	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

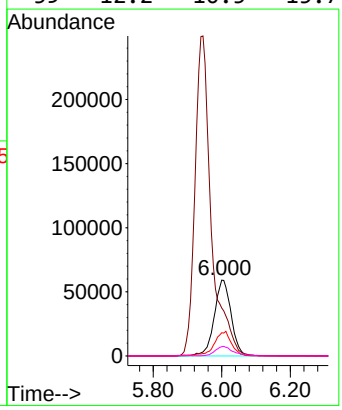
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

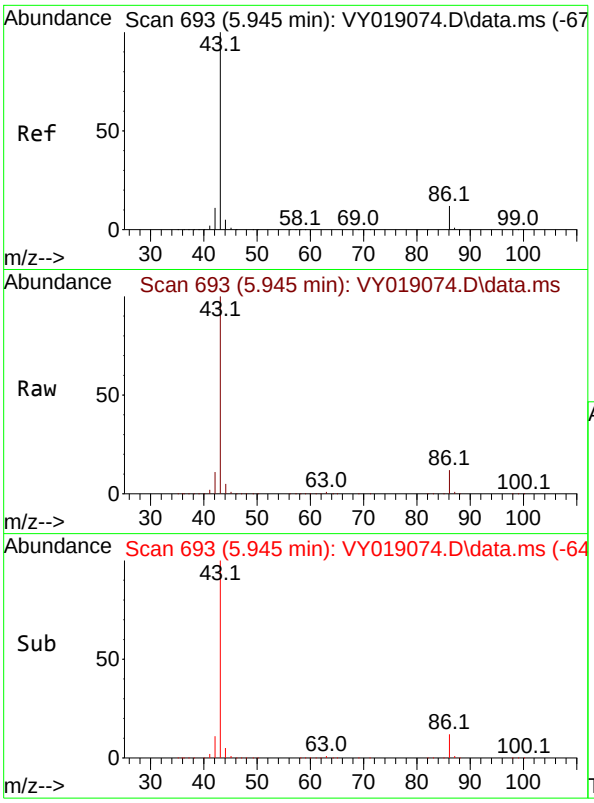


#22
Diisopropyl ether
Concen: 50.329 ug/l
RT: 6.000 min Scan# 702
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 45 Resp: 201730

Ion	Ratio	Lower	Upper
45	100		
43	63.2	42.2	63.2
87	30.5	25.0	37.6
59	12.2	10.5	15.7





#23
Vinyl Acetate
Concen: 259.073 ug/l
RT: 5.945 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

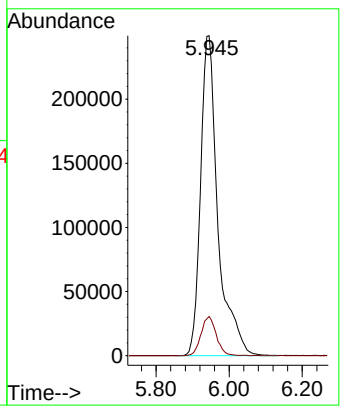
Tgt Ion: 43 Resp: 82213

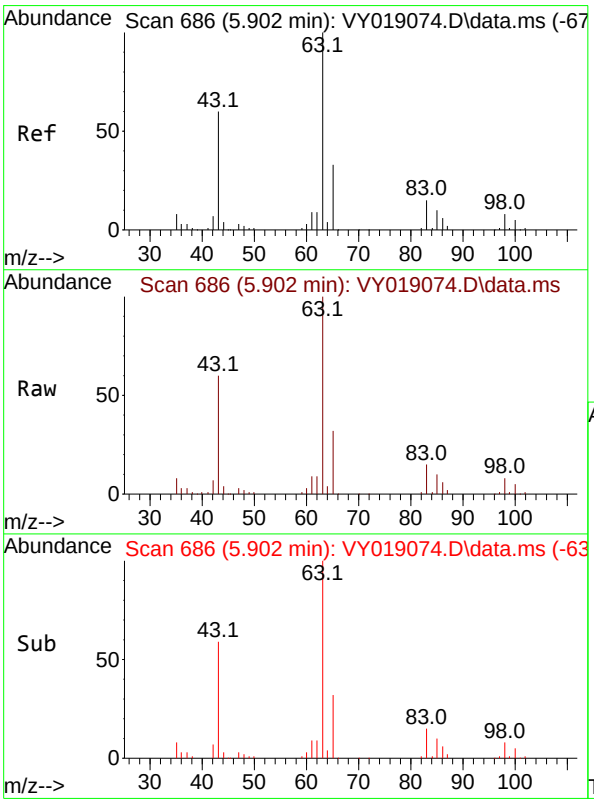
Ion	Ratio	Lower	Upper
43	100		
86	12.2	10.6	16.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

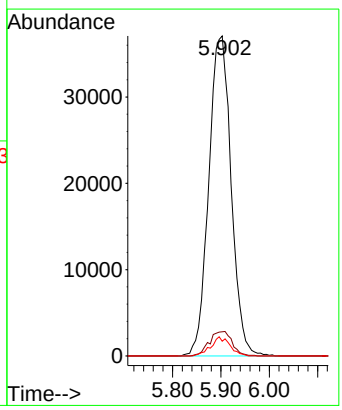


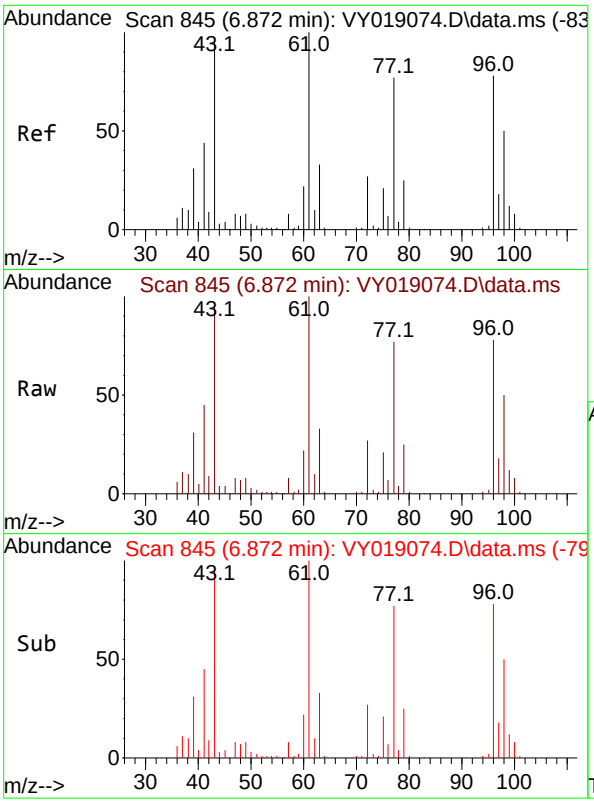


#24
1,1-Dichloroethane
Concen: 48.664 ug/l
RT: 5.902 min Scan# 686
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 63 Resp: 119286

Ion	Ratio	Lower	Upper
63	100		
98	7.6	4.0	12.2
100	4.6	2.6	8.0





#25
2-Butanone
Concen: 259.077 ug/l
RT: 6.872 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

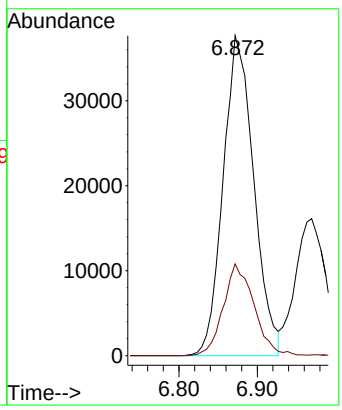
Tgt Ion: 43 Resp: 10240

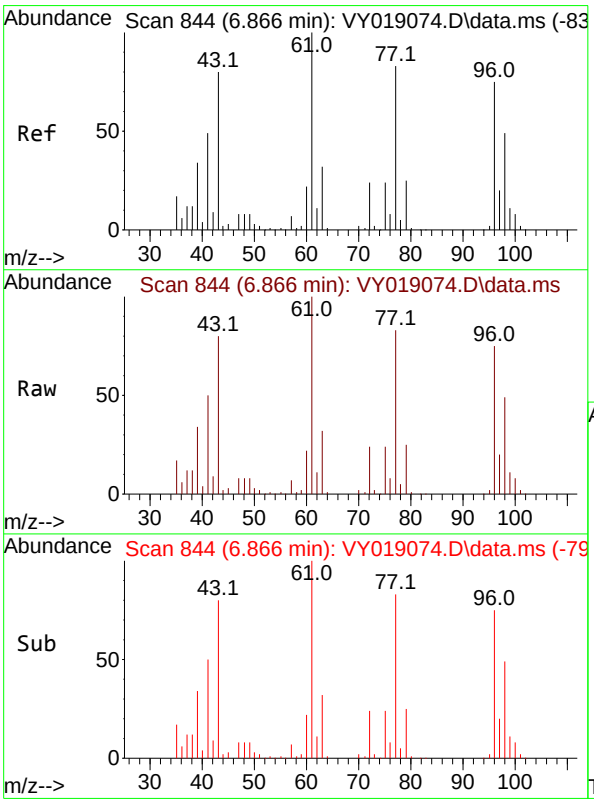
Ion	Ratio	Lower	Upper
43	100		
72	28.7	27.3	40.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

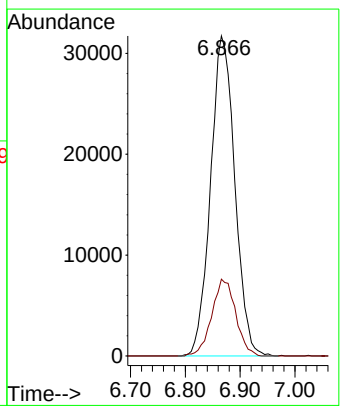


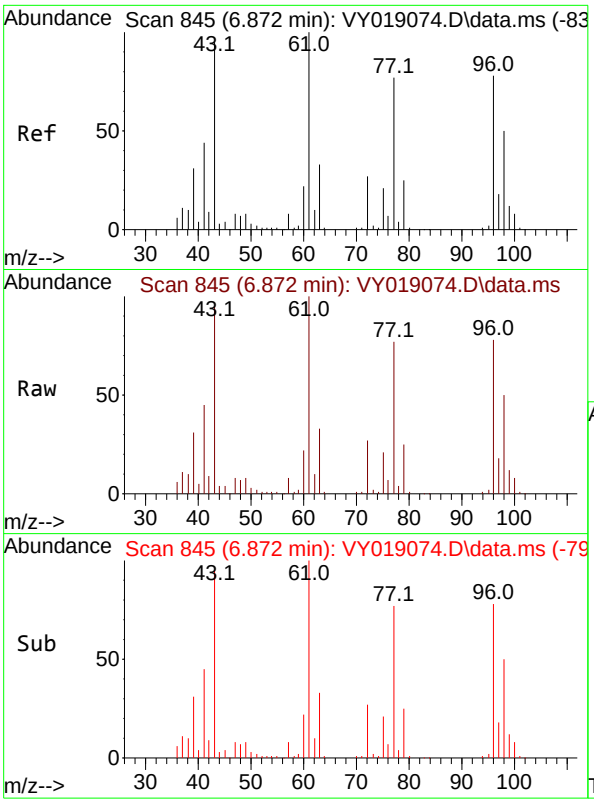


#26
2,2-Dichloropropane
Concen: 49.136 ug/l
RT: 6.866 min Scan# 844
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 77 Resp: 97533

Ion	Ratio	Lower	Upper
77	100		
97	23.7	12.0	36.1

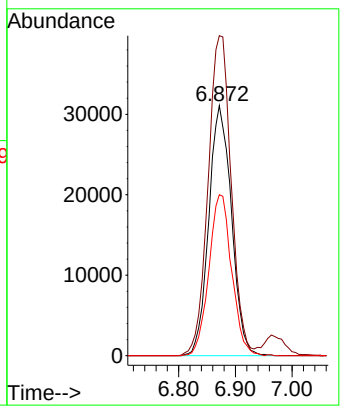




#27
cis-1,2-Dichloroethene
Concen: 49.940 ug/l
RT: 6.872 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 96 Resp: 8646

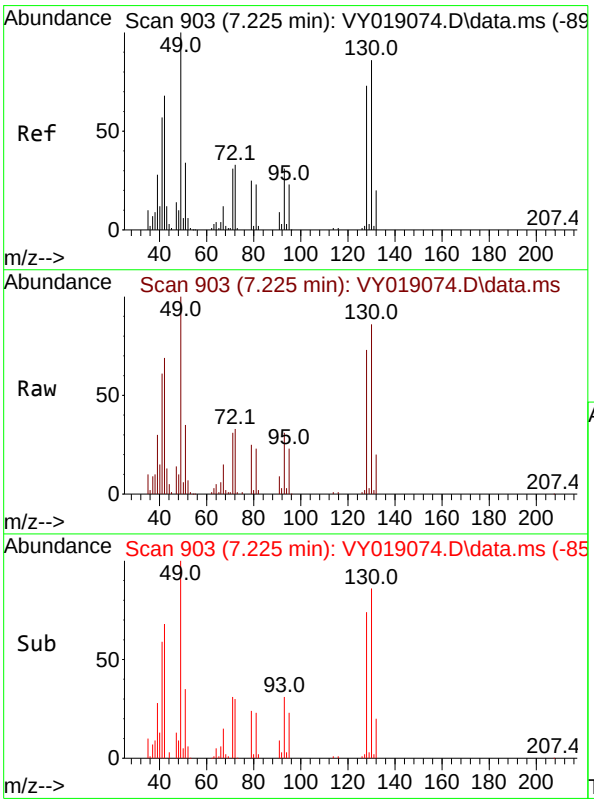
Ion	Ratio	Lower	Upper
96	100		
61	130.3	0.0	256.2
98	64.5	0.0	130.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

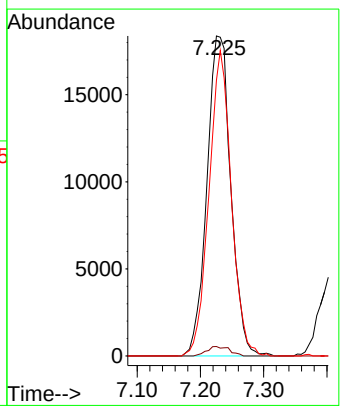
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

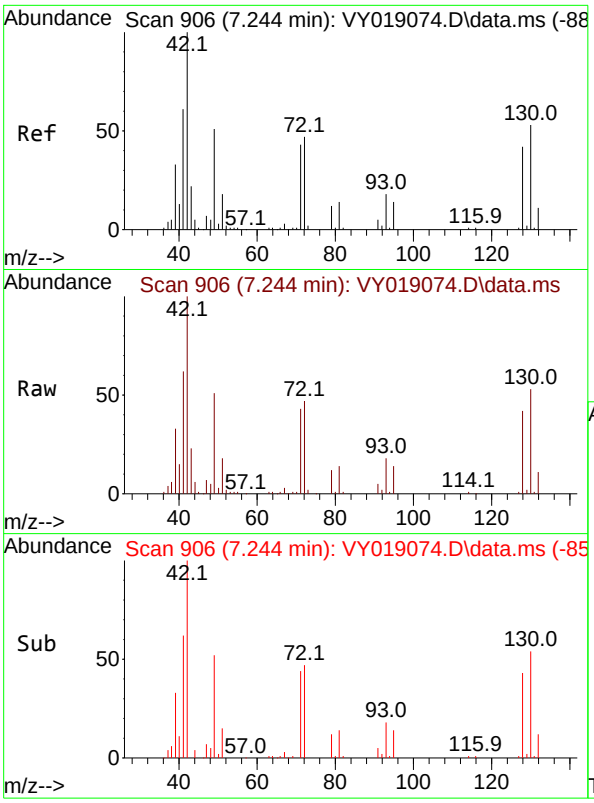


#28
Bromochloromethane
Concen: 47.002 ug/l
RT: 7.225 min Scan# 903
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 49 Resp: 48329

Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	4.6
130	89.0	72.7	109.1

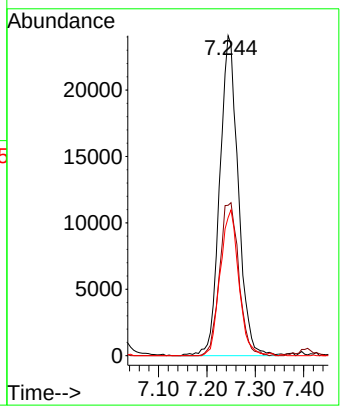




#29
Tetrahydrofuran
Concen: 252.383 ug/l
RT: 7.244 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 42 Resp: 6412

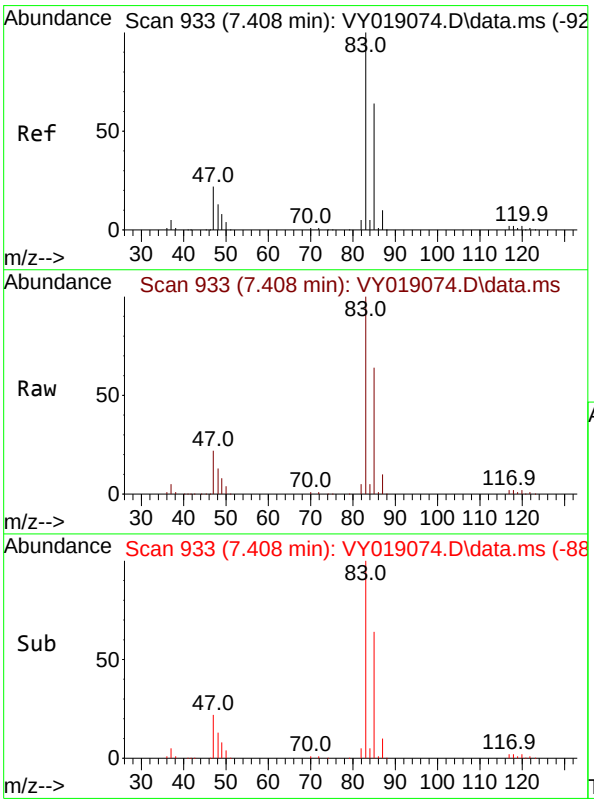
Ion	Ratio	Lower	Upper
42	100		
72	49.8	43.0	64.4
71	45.4	40.8	61.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

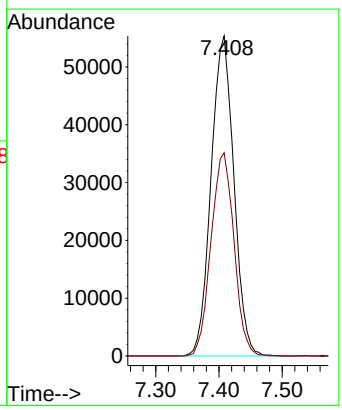
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

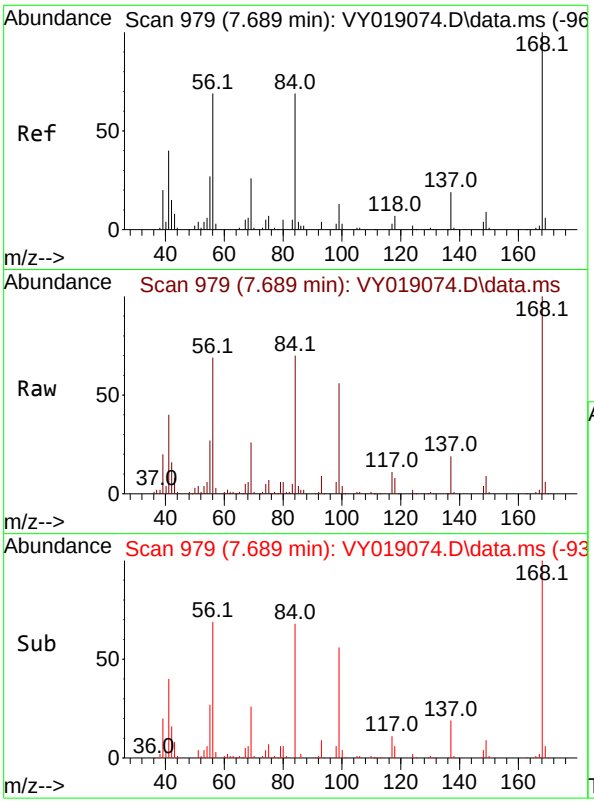


#30
Chloroform
Concen: 50.676 ug/l
RT: 7.408 min Scan# 933
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 83 Resp: 138414

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.2	78.4

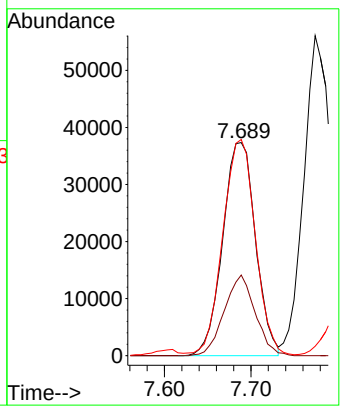




#31
Cyclohexane
Concen: 52.108 ug/l
RT: 7.689 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 56 Resp: 9830

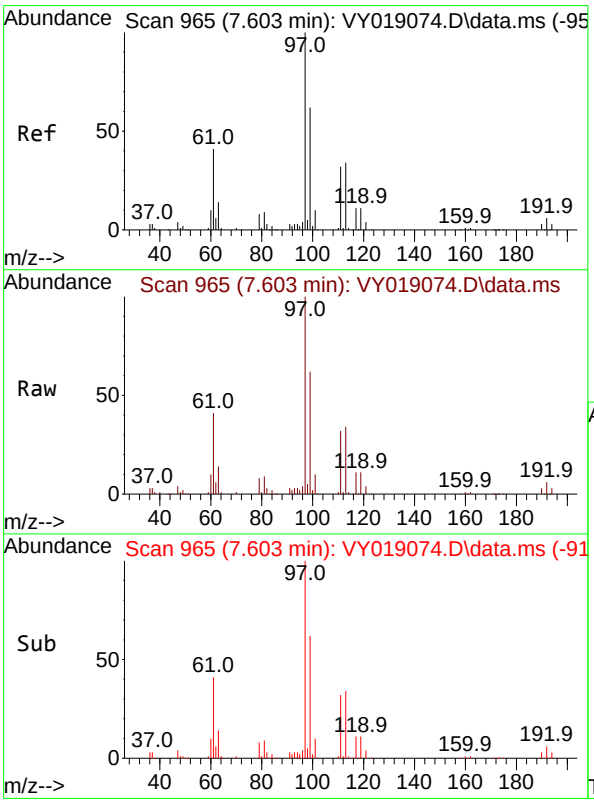
Ion	Ratio	Lower	Upper
56	100		
69	37.8	28.7	43.1
84	100.1	77.7	116.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

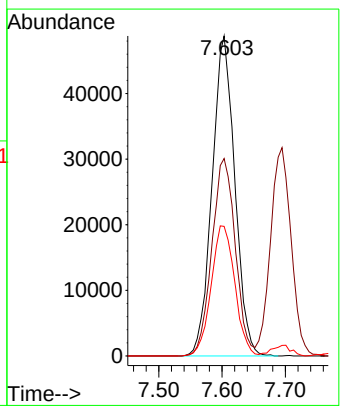
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

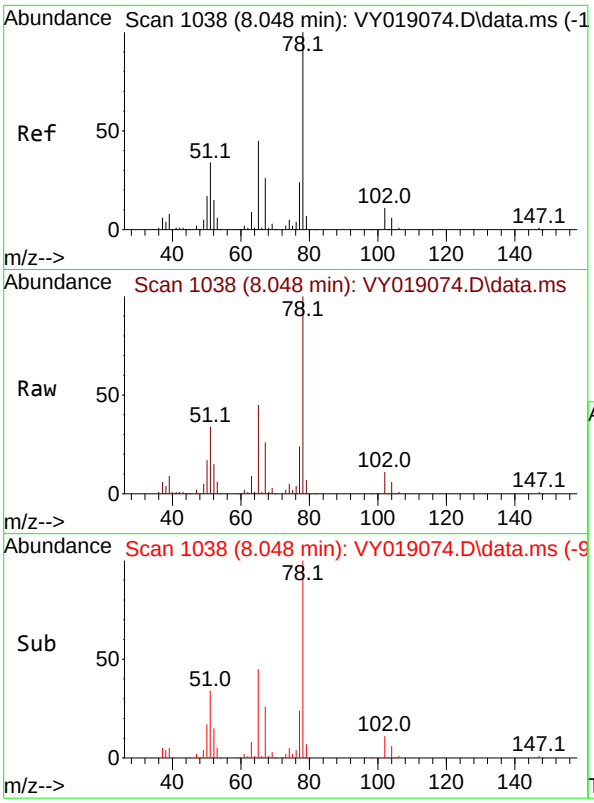


#32
1,1,1-Trichloroethane
Concen: 50.609 ug/l
RT: 7.603 min Scan# 965
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 97 Resp: 121481

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.3	75.5
61	42.4	32.6	48.8

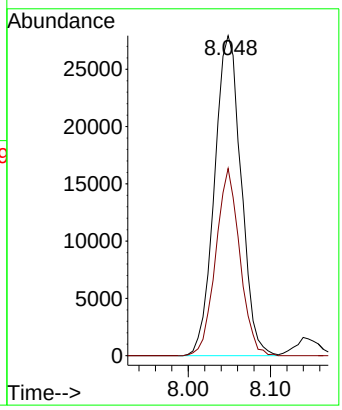




#33
1,2-Dichloroethane-d4
Concen: 47.454 ug/l
RT: 8.048 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 65 Resp: 6280

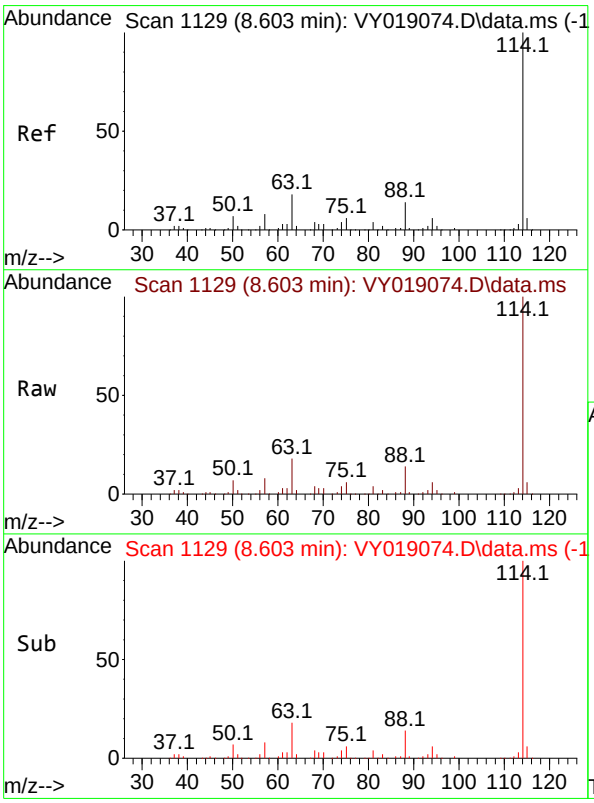
Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	109.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

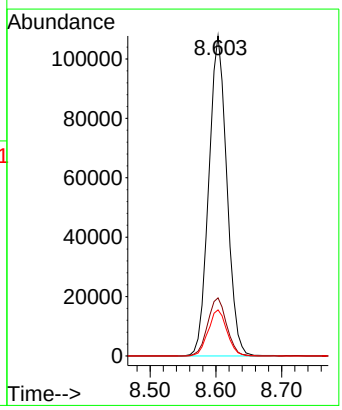
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

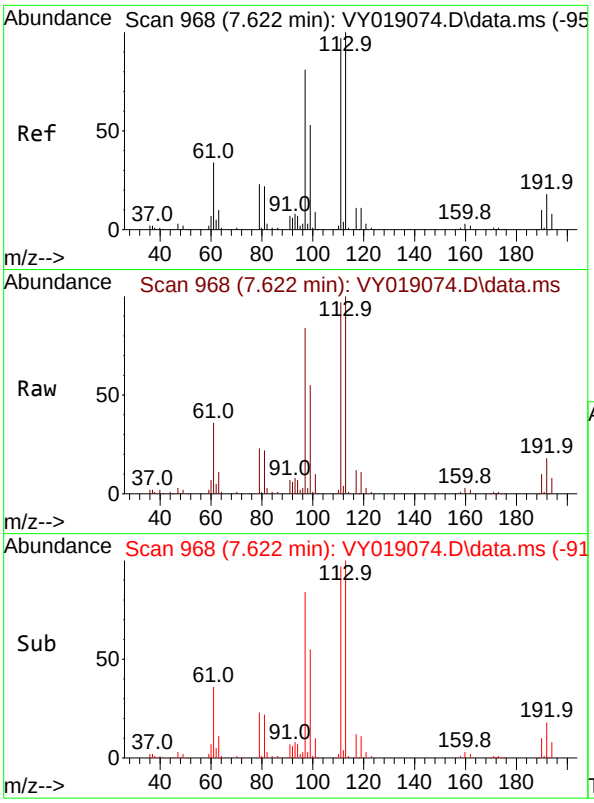


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.603 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:114 Resp: 206283

Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	35.0
88	14.4	0.0	27.2

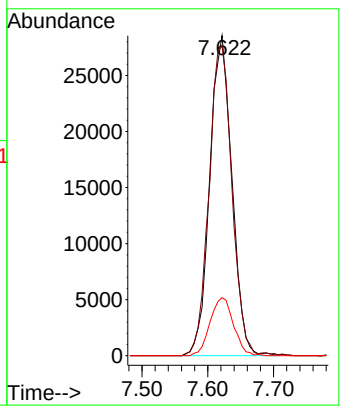




#35
Dibromofluoromethane
Concen: 49.839 ug/l
RT: 7.622 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:113 Resp: 6722

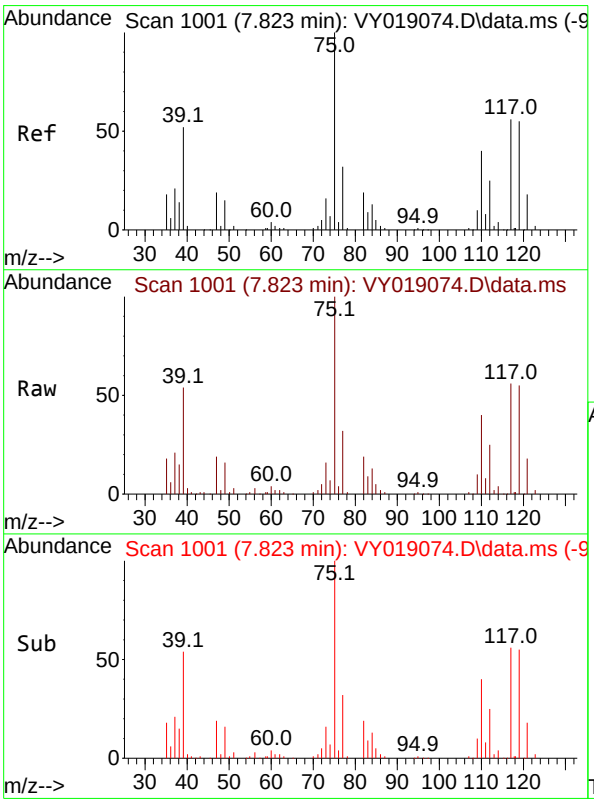
Ion	Ratio	Lower	Upper
113	100		
111	100.4	82.2	123.4
192	19.0	15.9	23.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

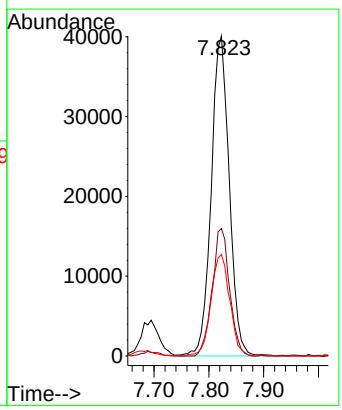
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

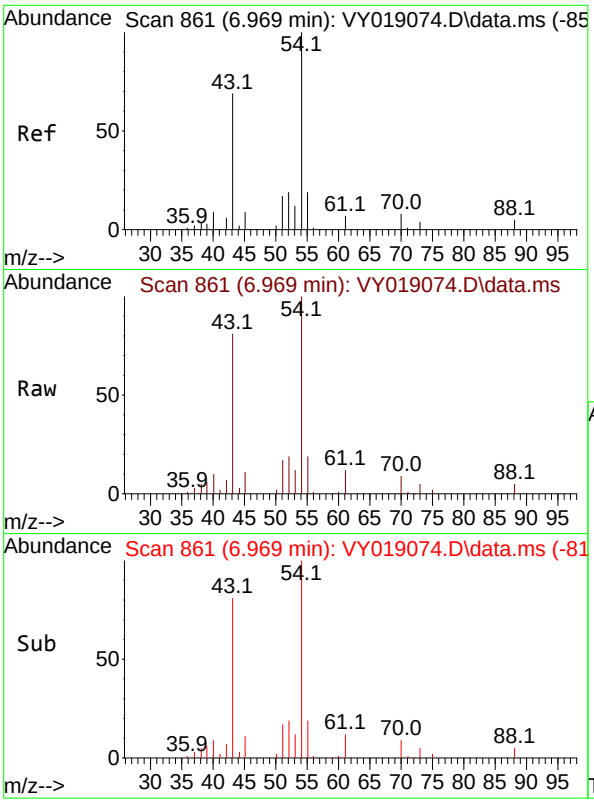


#36
1,1-Dichloropropene
Concen: 49.391 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 75 Resp: 91479

Ion	Ratio	Lower	Upper
75	100		
110	38.6	19.0	57.0
77	32.9	25.3	37.9





#37
Ethyl Acetate
Concen: 54.892 ug/l
RT: 6.969 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

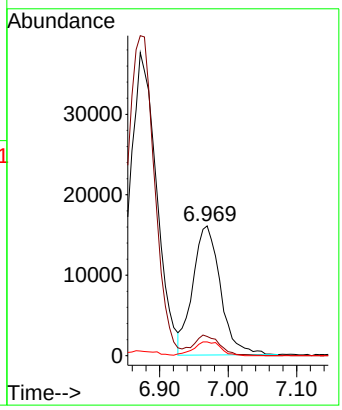
Tgt Ion: 43 Resp: 4504

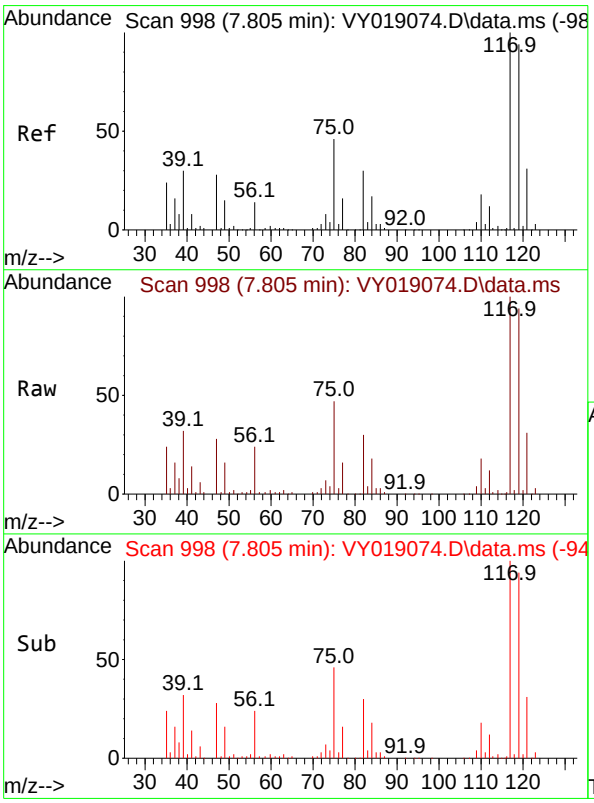
Ion	Ratio	Lower	Upper
43	100		
61	15.3	12.6	19.0
70	10.6	7.8	11.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

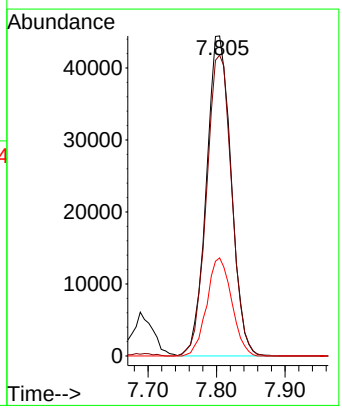


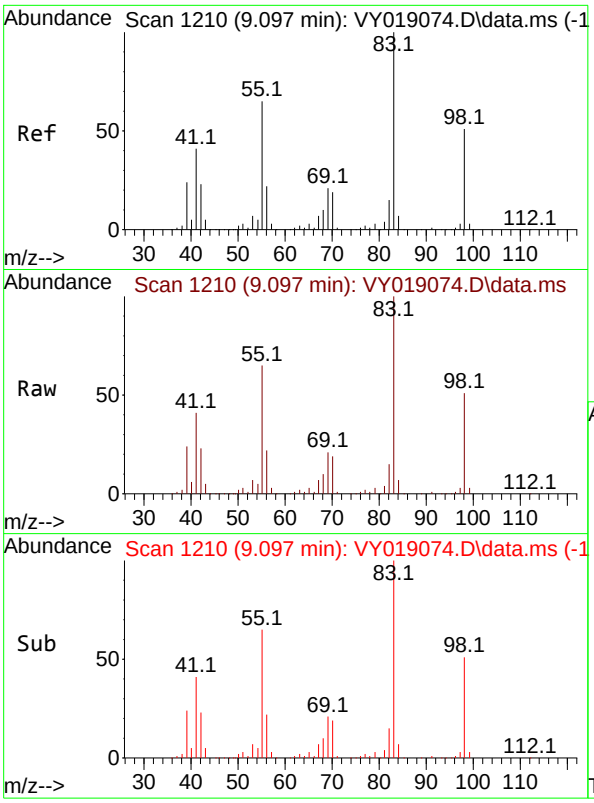


#38
Carbon Tetrachloride
Concen: 51.895 ug/l
RT: 7.805 min Scan# 998
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:117 Resp: 111389

Ion	Ratio	Lower	Upper
117	100		
119	94.0	75.8	113.6
121	30.6	24.0	36.0

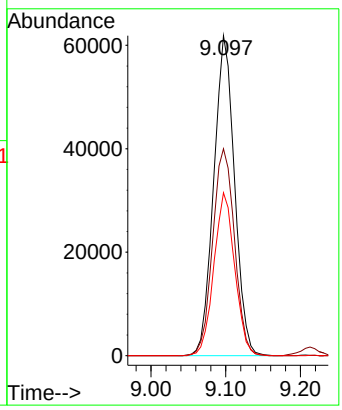




#39
Methylcyclohexane
Concen: 50.474 ug/l
RT: 9.097 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 83 Resp: 11996

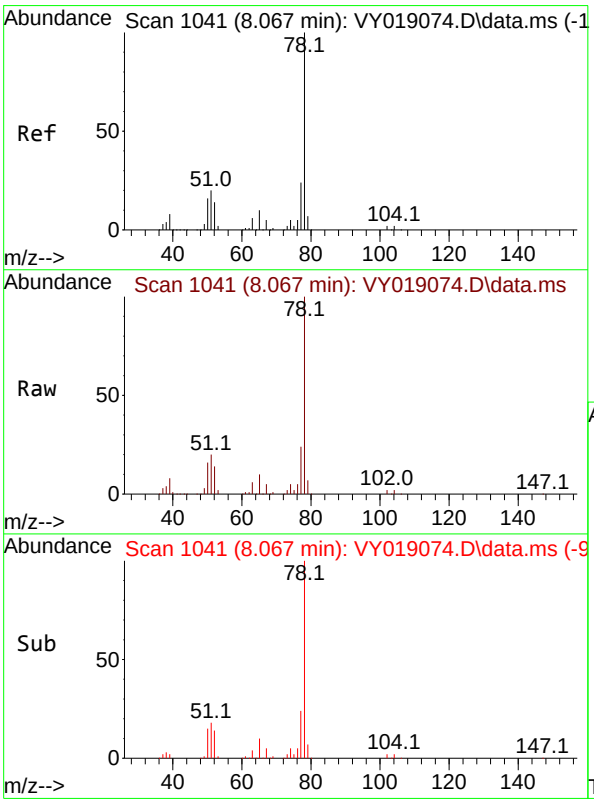
Ion	Ratio	Lower	Upper
83	100		
55	64.6	51.5	77.3
98	50.9	40.5	60.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

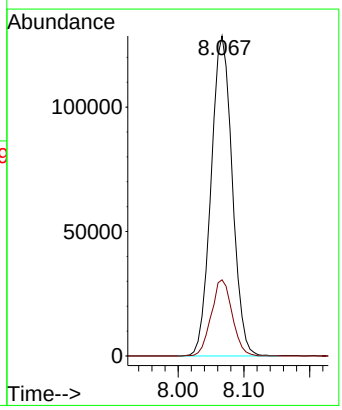
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

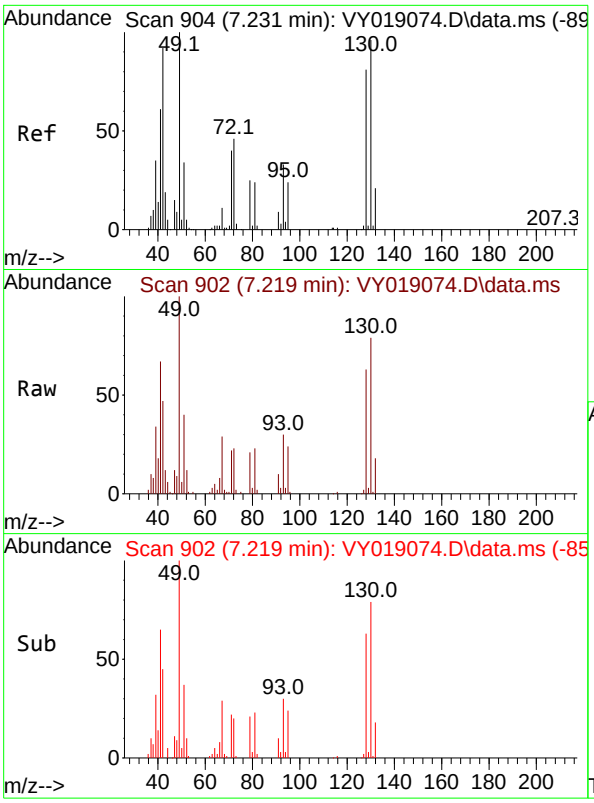


#40
Benzene
Concen: 50.723 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 78 Resp: 288131

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.5	29.3

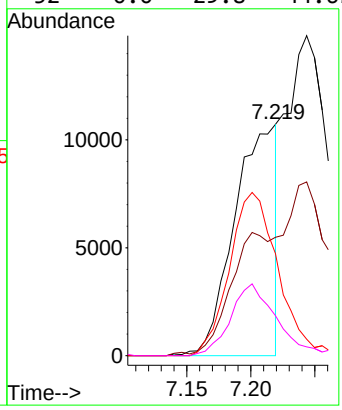




#41
Methacrylonitrile
Concen: 58.284 ug/l m
RT: 7.219 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 41 Resp: 2473

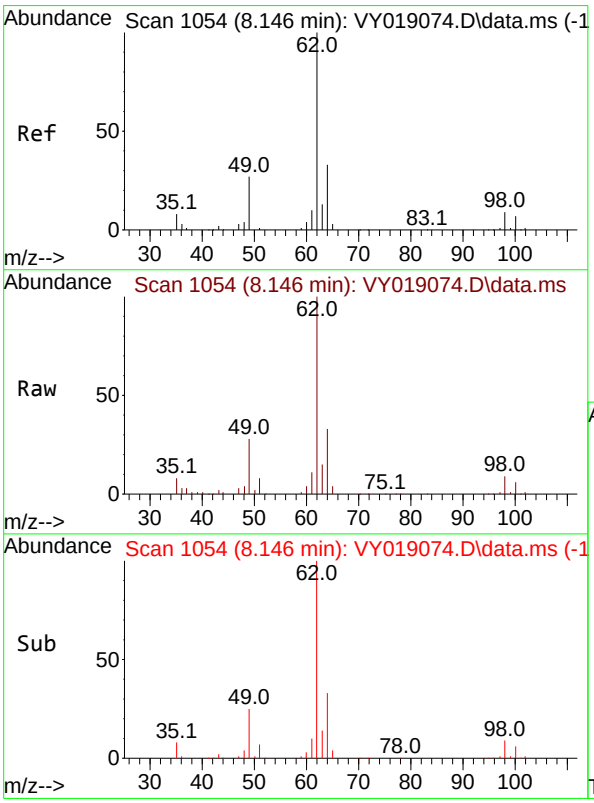
Ion	Ratio	Lower	Upper
41	100		
39	76.2	48.0	72.0#
67	0.0	75.1	112.7#
52	0.0	29.8	44.6#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

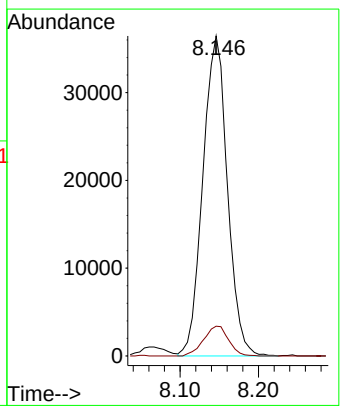
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

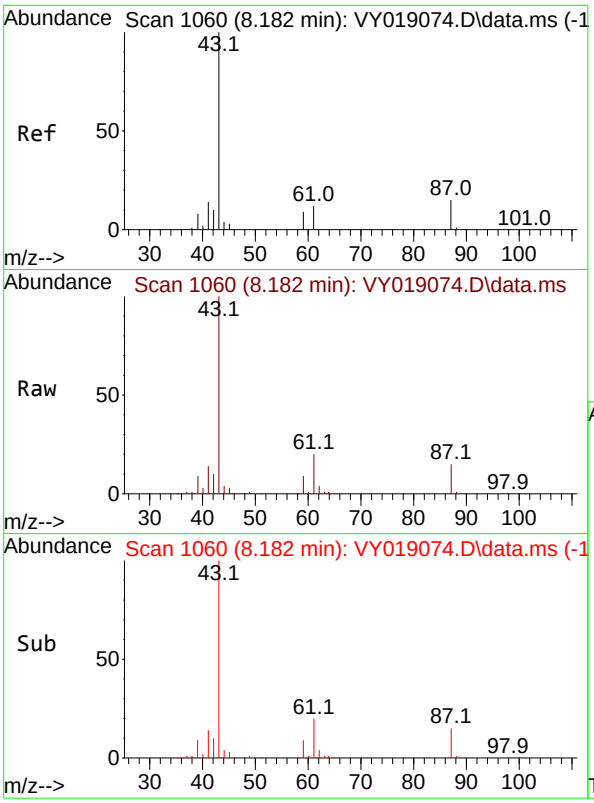


#42
1,2-Dichloroethane
Concen: 51.744 ug/l
RT: 8.146 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 62 Resp: 79373

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	22.0

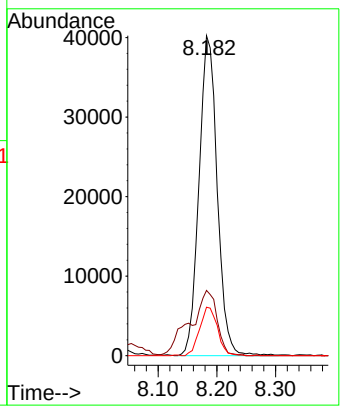




#43
Isopropyl Acetate
Concen: 52.249 ug/l
RT: 8.182 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 43 Resp: 8671

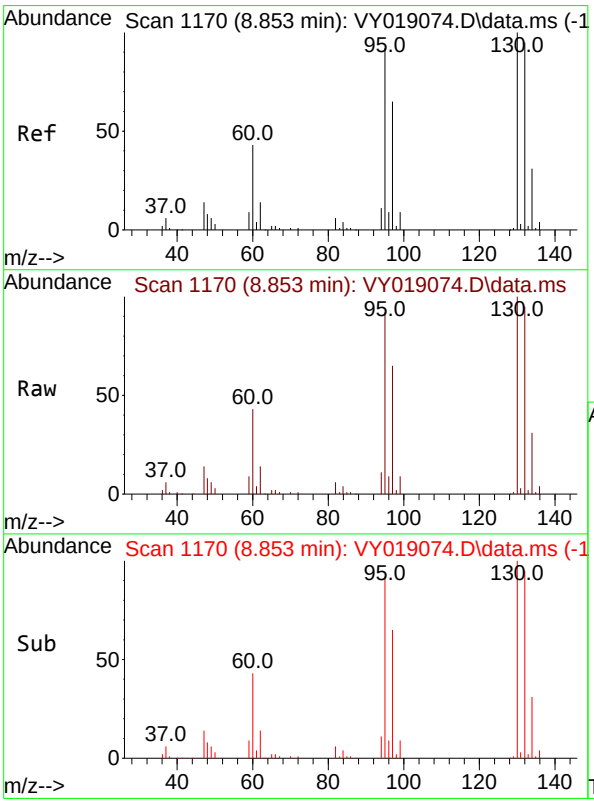
Ion	Ratio	Lower	Upper
43	100		
61	30.2	27.9	41.9
87	14.9	13.1	19.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

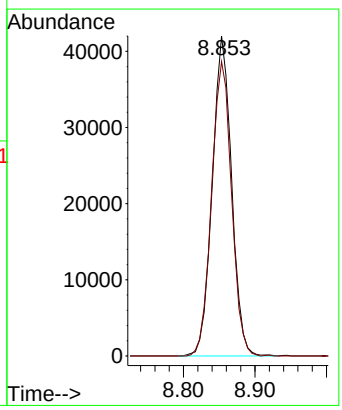
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

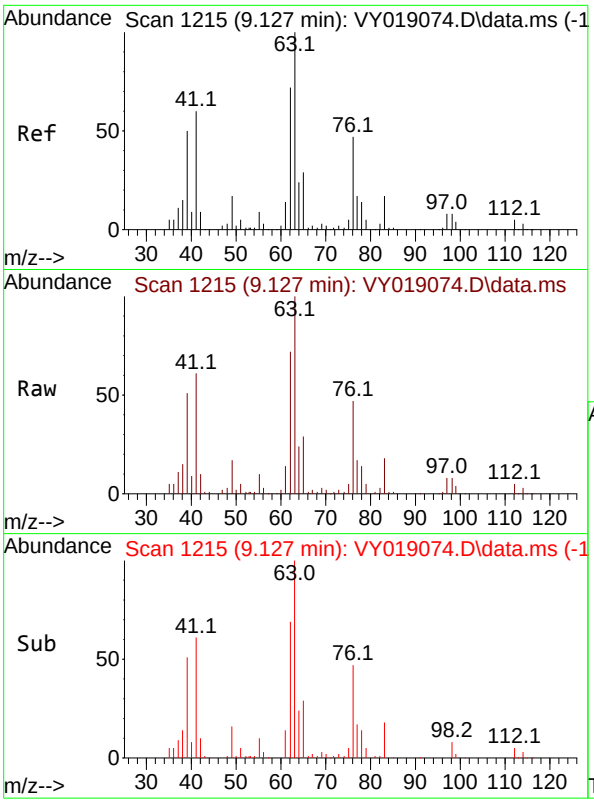


#44
Trichloroethene
Concen: 49.585 ug/l
RT: 8.853 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:130 Resp: 78592

Ion	Ratio	Lower	Upper
130	100		
95	92.0	0.0	188.0

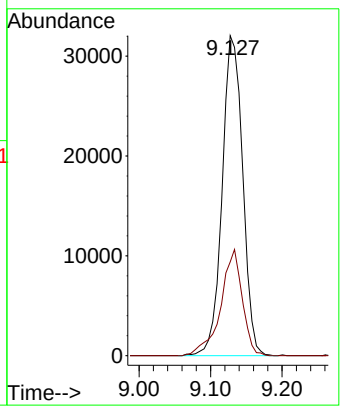




#45
1,2-Dichloropropane
Concen: 50.511 ug/l
RT: 9.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 63 Resp: 6392

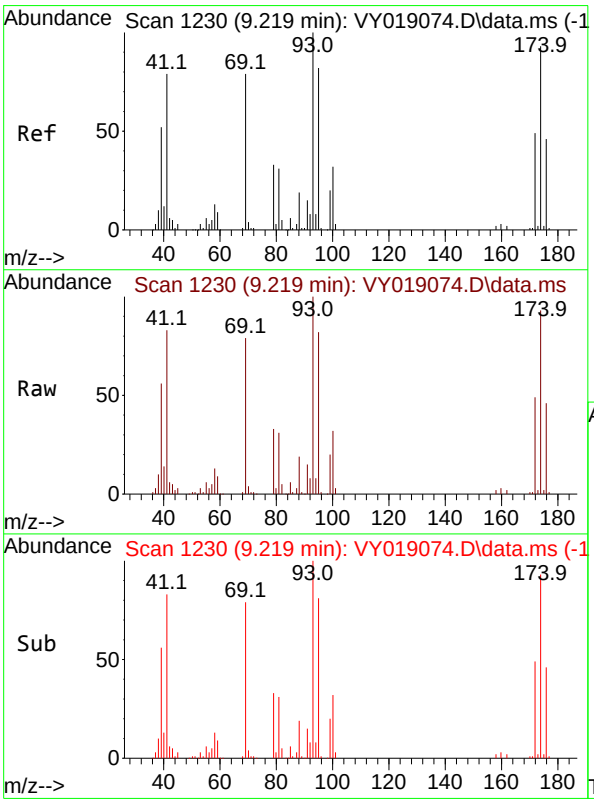
Ion	Ratio	Lower	Upper
63	100		
65	29.3	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

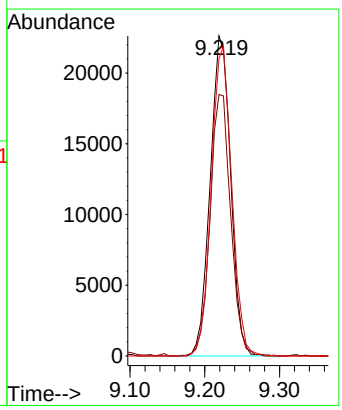
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

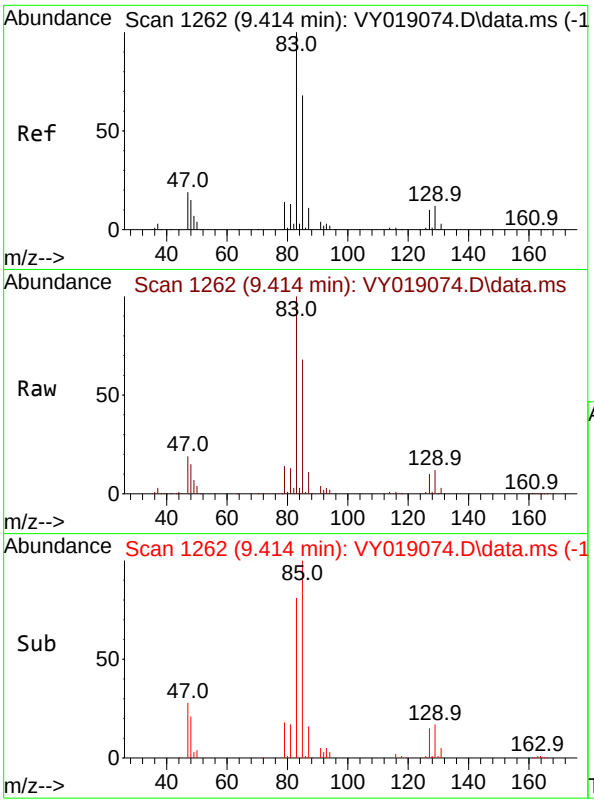


#46
Dibromomethane
Concen: 52.595 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 93 Resp: 43174

Ion	Ratio	Lower	Upper
93	100		
95	82.0	66.2	99.4
174	96.7	80.9	121.3

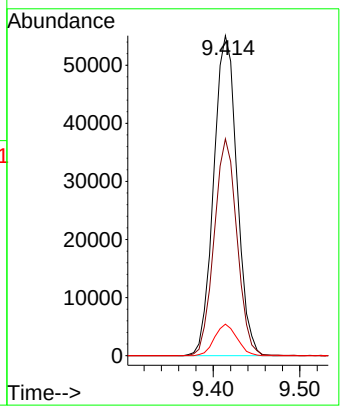




#47
Bromodichloromethane
Concen: 51.108 ug/l
RT: 9.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 83 Resp: 10292

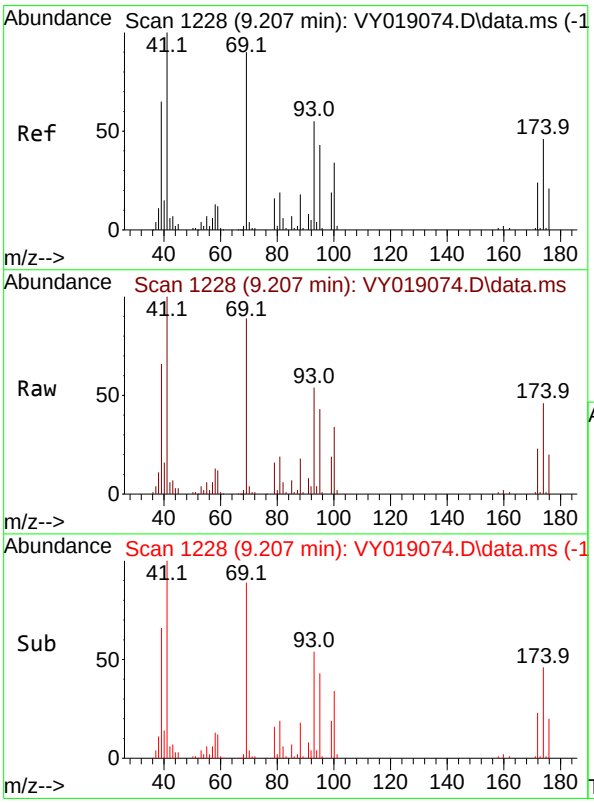
Ion	Ratio	Lower	Upper
83	100		
85	67.7	50.1	75.1
127	9.9	7.4	11.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

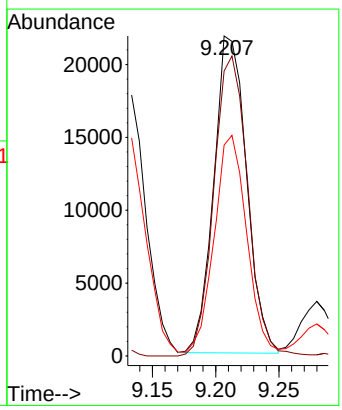
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

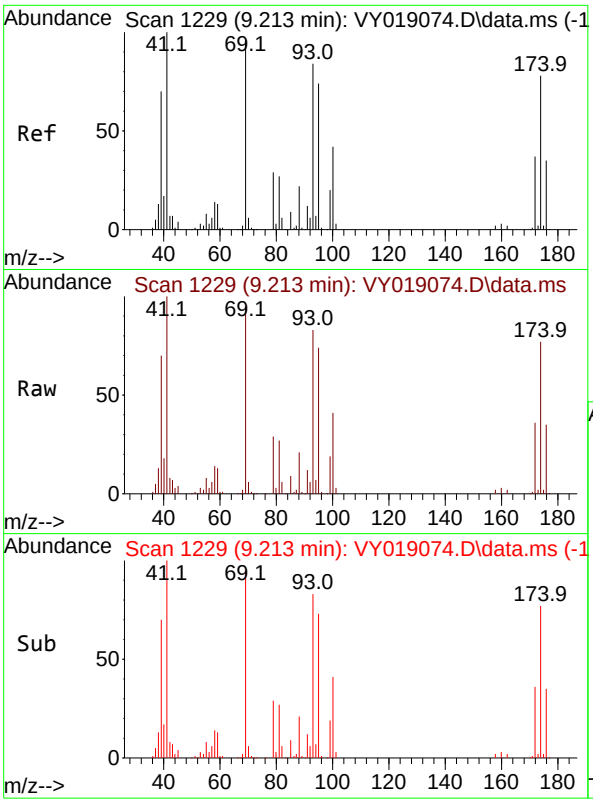


#48
Methyl methacrylate
Concen: 53.005 ug/l
RT: 9.207 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 41 Resp: 39203

Ion	Ratio	Lower	Upper
41	100		
69	97.9	84.1	126.1
39	67.5	43.6	65.4#

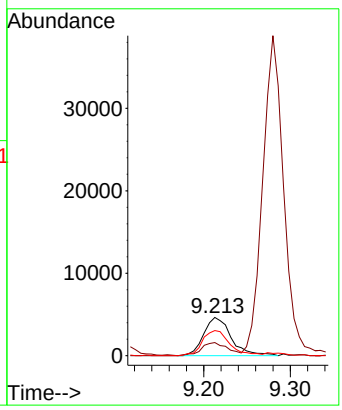




#49
1,4-Dioxane
Concen: 1029.391 ug/l
RT: 9.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 88 Resp: 1023

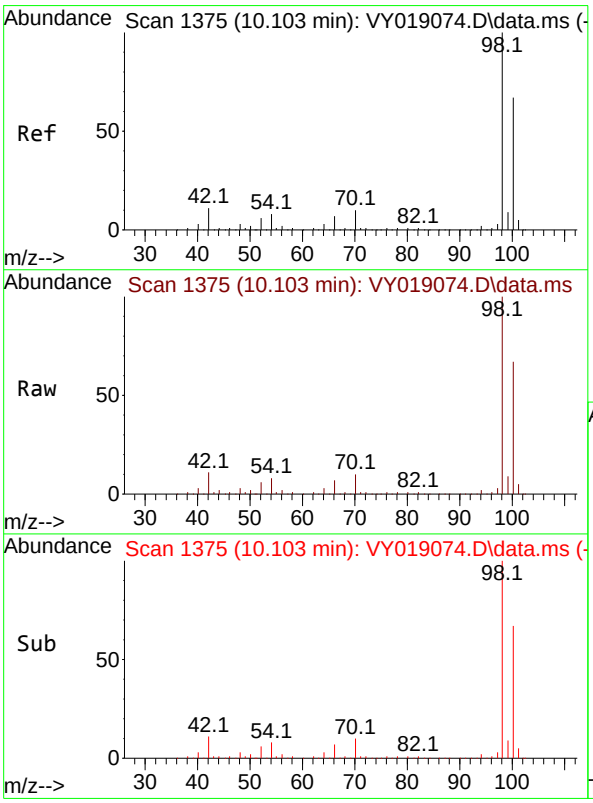
Ion	Ratio	Lower	Upper
88	100		
43	33.4	0.0	0.0
58	65.2	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

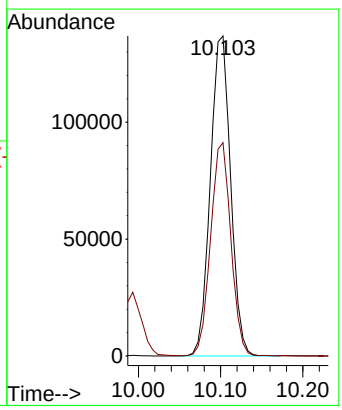
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

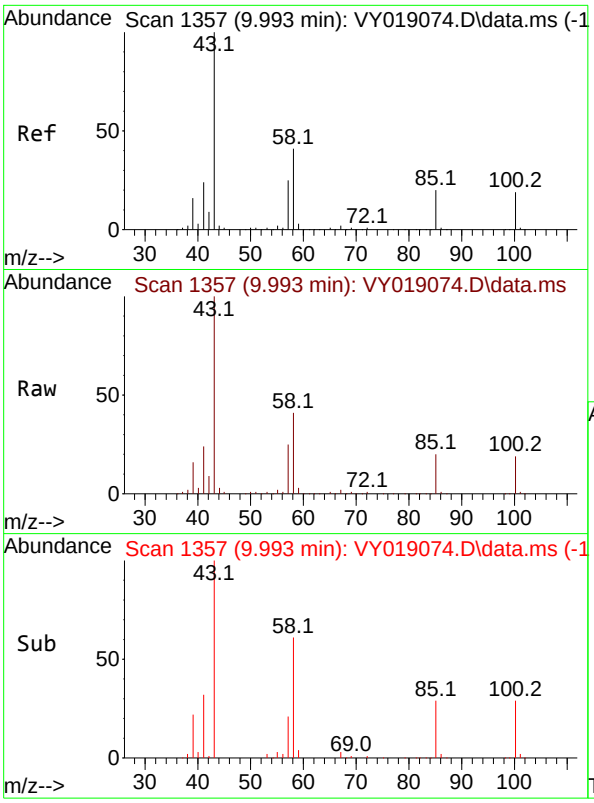


#50
Toluene-d8
Concen: 48.354 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 98 Resp: 234706

Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.0	78.0

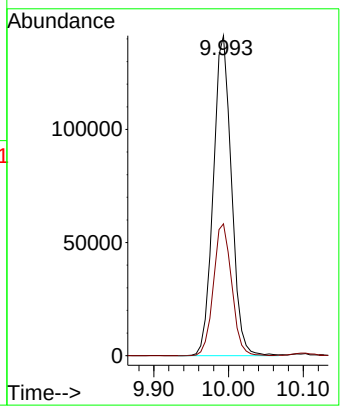




#51
4-Methyl-2-Pentanone
Concen: 271.178 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 43 Resp: 23886

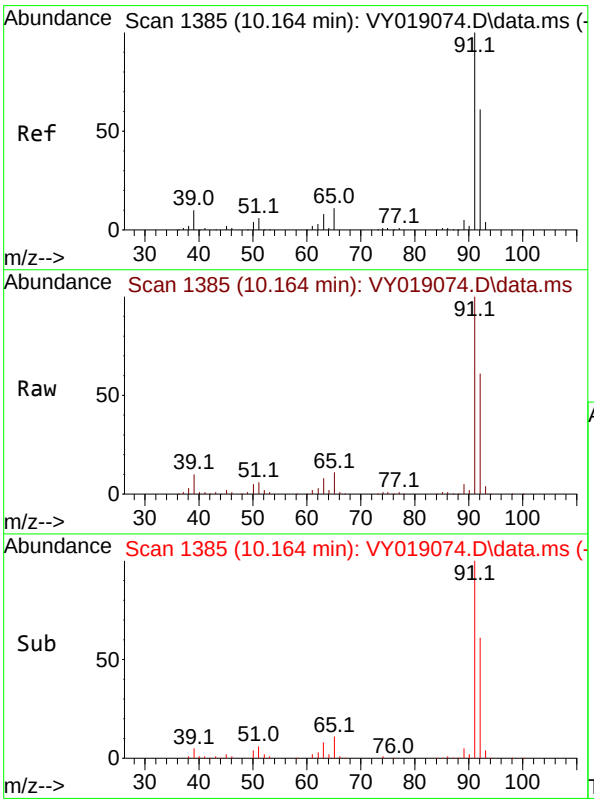
Ion	Ratio	Lower	Upper
43	100		
58	41.4	35.7	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

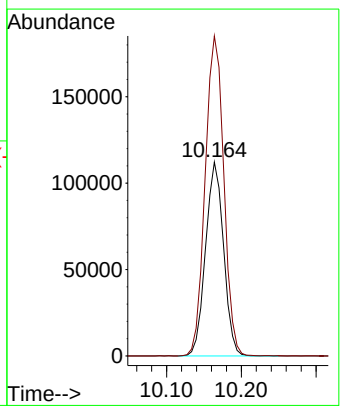
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

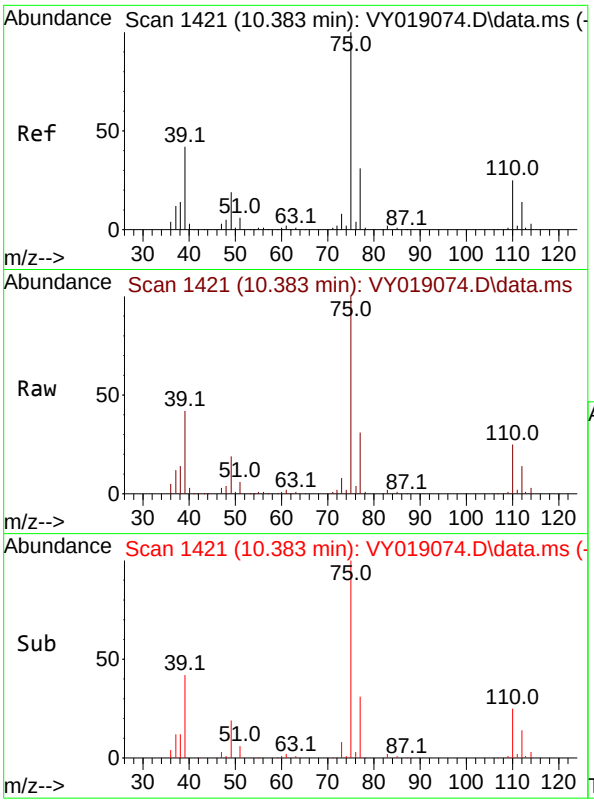


#52
Toluene
Concen: 50.430 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 92 Resp: 188041

Ion	Ratio	Lower	Upper
92	100		
91	170.6	139.0	208.6

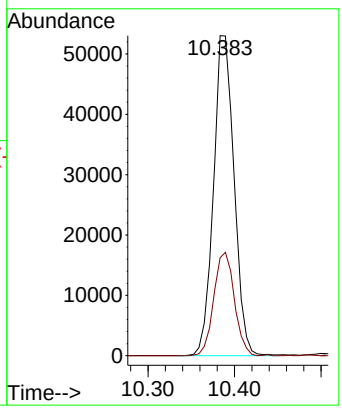




#53
t-1,3-Dichloropropene
Concen: 52.420 ug/l
RT: 10.383 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 75 Resp: 8757

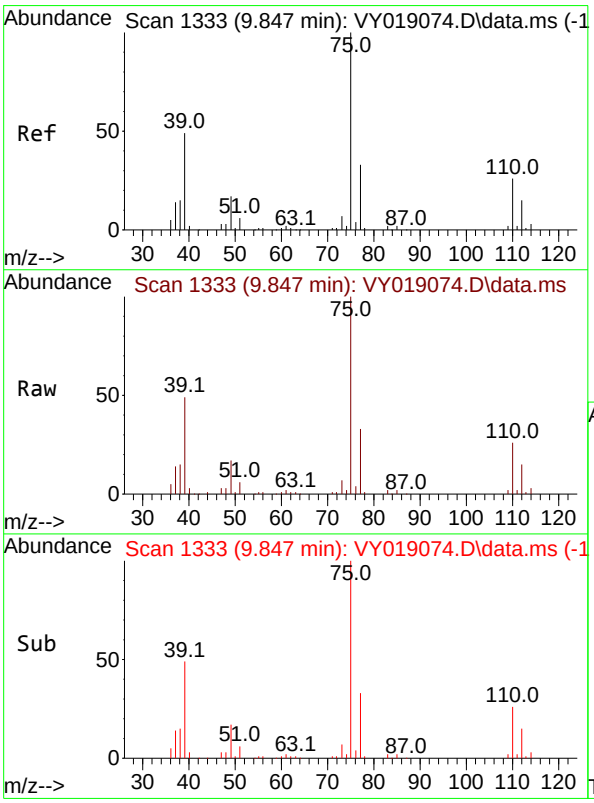
Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.1	36.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

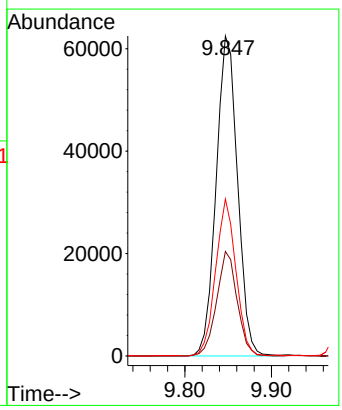
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

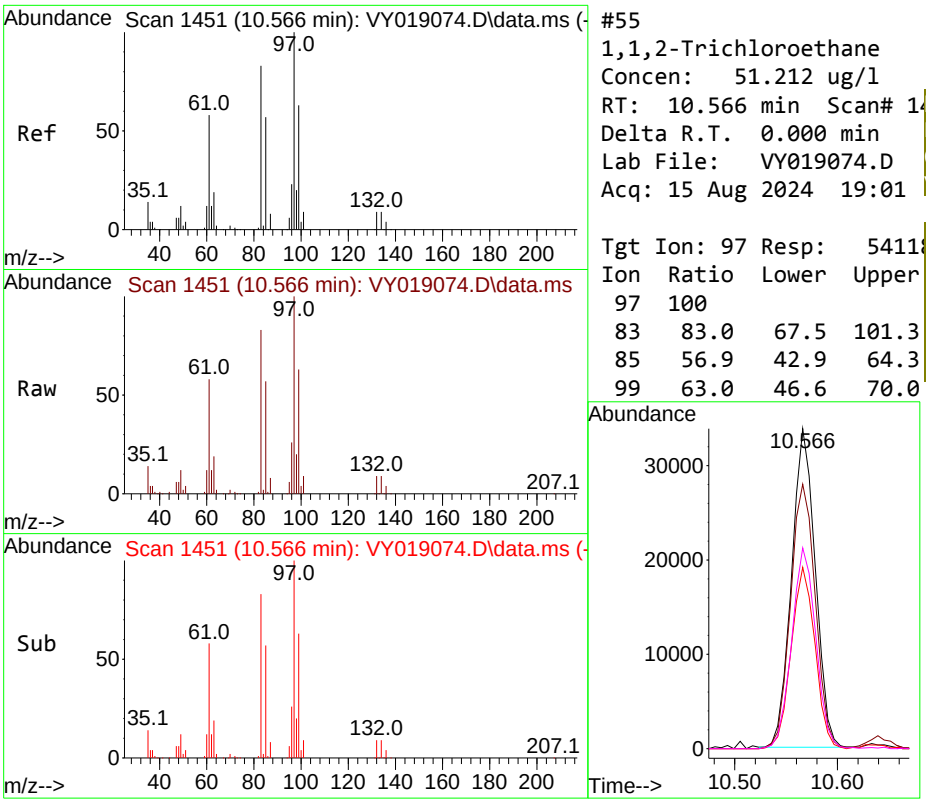


#54
cis-1,3-Dichloropropene
Concen: 53.407 ug/l
RT: 9.847 min Scan# 1333
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 75 Resp: 107301

Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.4	38.0
39	48.9	29.8	44.6#





#55
1,1,2-Trichloroethane
Concen: 51.212 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

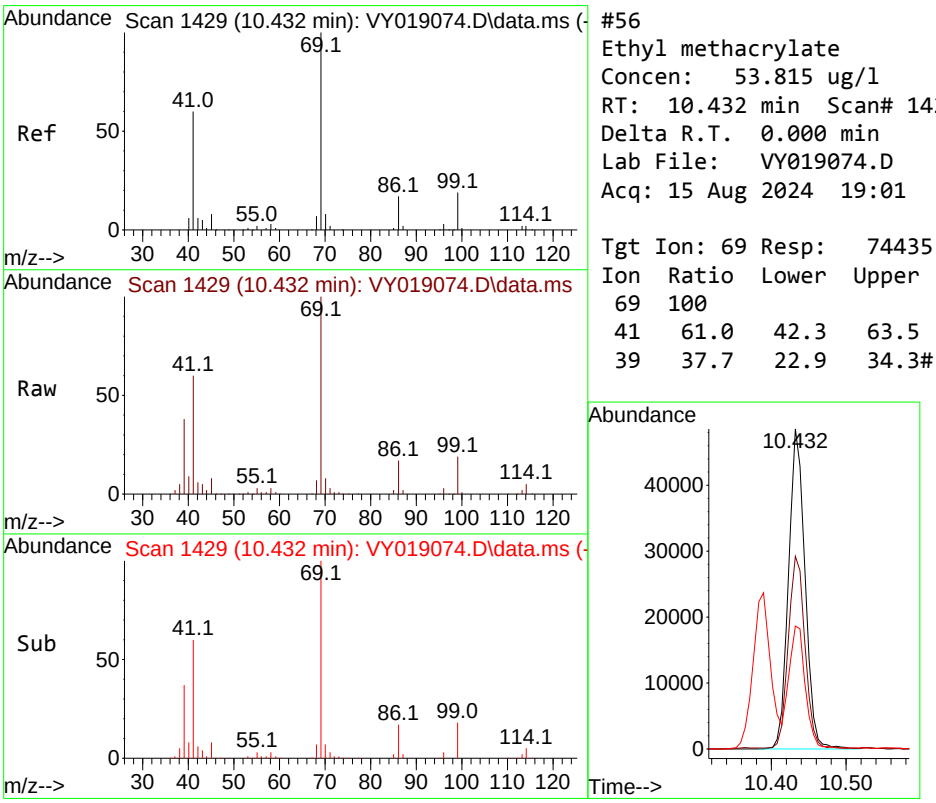
Tgt Ion: 97 Resp: 5411

Ion	Ratio	Lower	Upper
97	100		
83	83.0	67.5	101.3
85	56.9	42.9	64.3
99	63.0	46.6	70.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

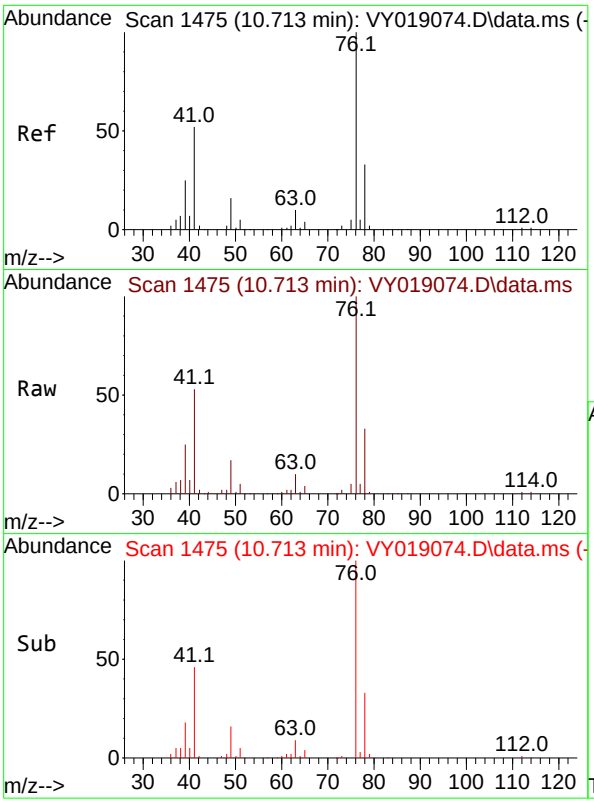
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024



#56
Ethyl methacrylate
Concen: 53.815 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 69 Resp: 74435

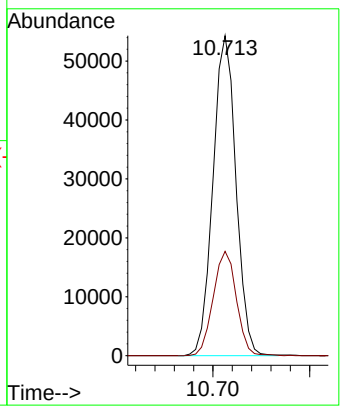
Ion	Ratio	Lower	Upper
69	100		
41	61.0	42.3	63.5
39	37.7	22.9	34.3#



#57
1,3-Dichloropropane
Concen: 51.982 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 76 Resp: 8954

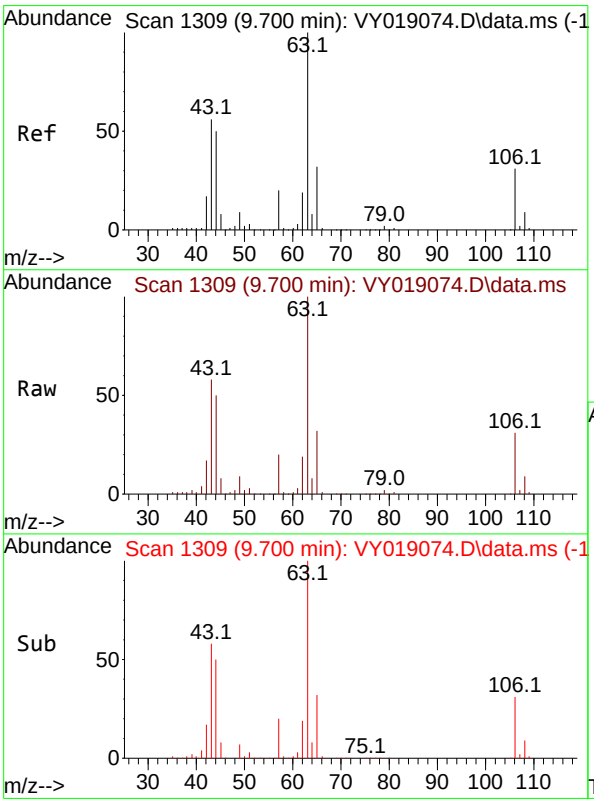
Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.2	39.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

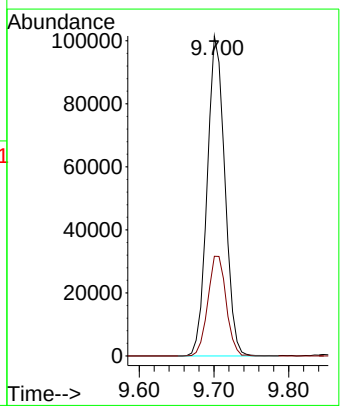
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

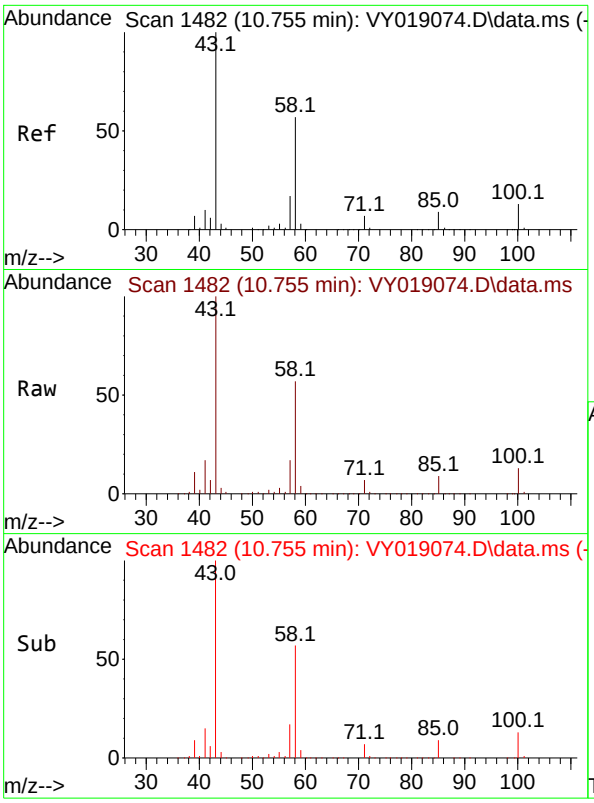


#58
2-Chloroethyl Vinyl ether
Concen: 254.188 ug/l
RT: 9.700 min Scan# 1309
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 63 Resp: 166792

Ion	Ratio	Lower	Upper
63	100		
106	32.4	23.7	35.5

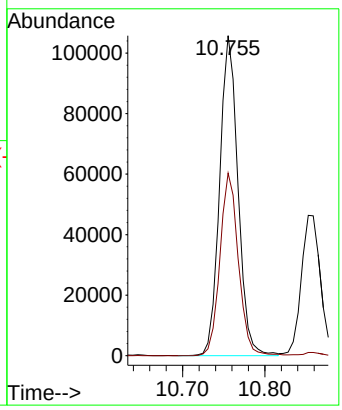




#59
2-Hexanone
Concen: 270.754 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 43 Resp: 16384

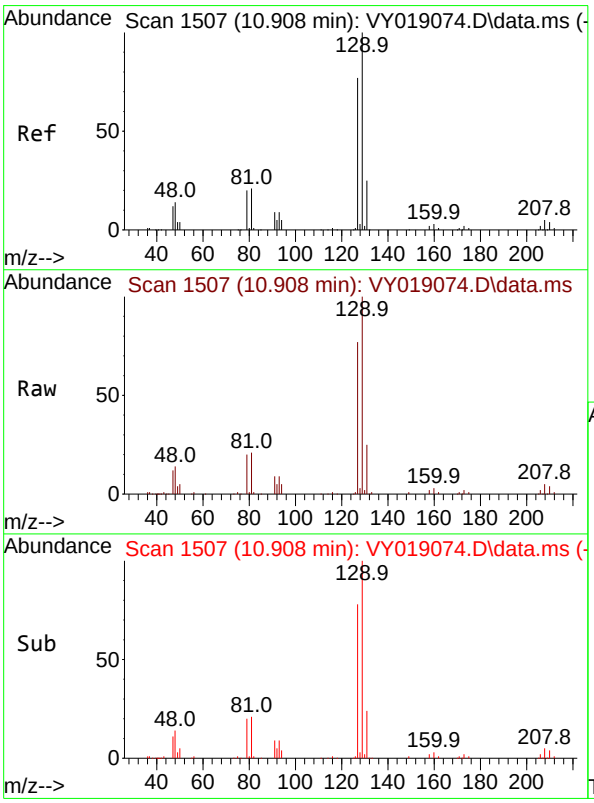
Ion	Ratio	Lower	Upper
43	100		
58	57.3	31.4	94.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

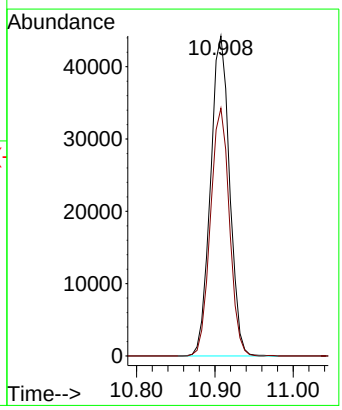
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

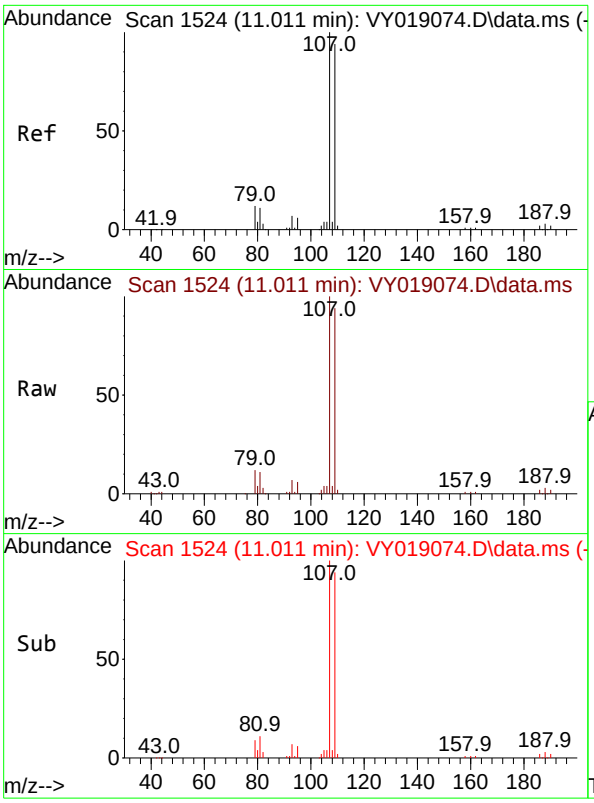


#60
Dibromochloromethane
Concen: 52.144 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:129 Resp: 75051

Ion	Ratio	Lower	Upper
129	100		
127	76.6	39.0	117.0

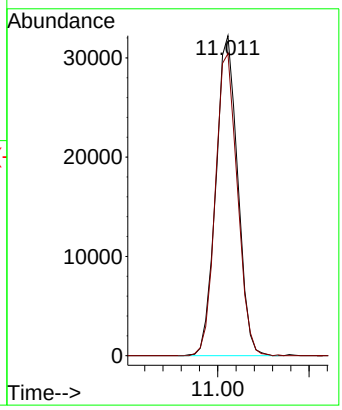




#61
1,2-Dibromoethane
Concen: 52.413 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:107 Resp: 5353

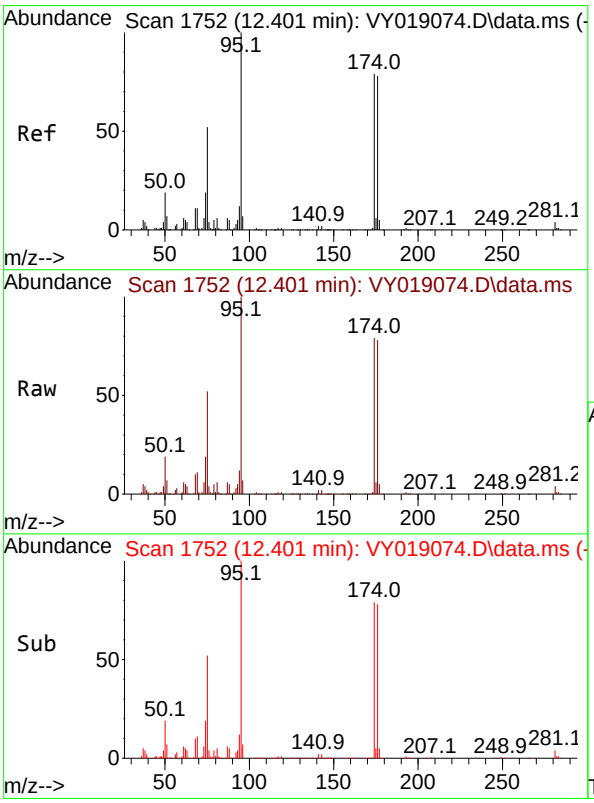
Ion	Ratio	Lower	Upper
107	100		
109	95.2	75.9	113.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

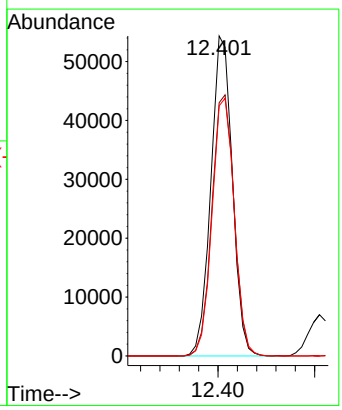
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

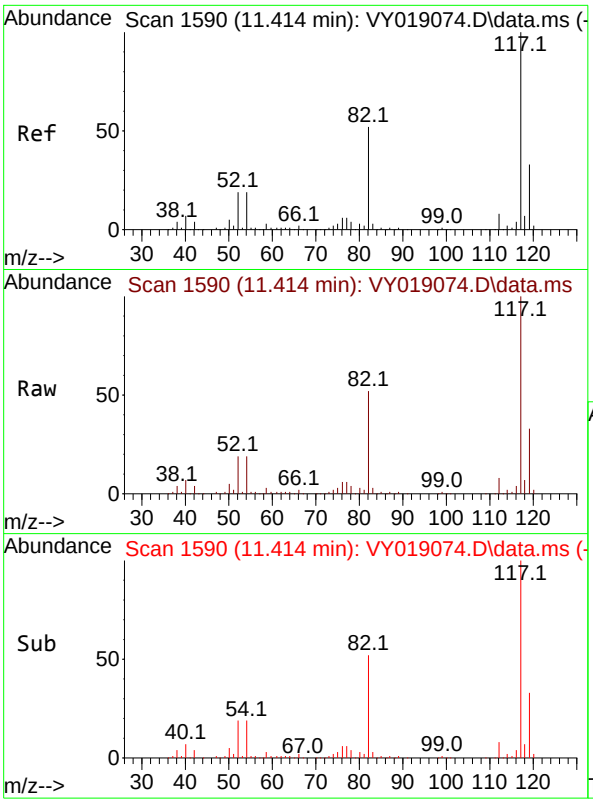


#62
4-Bromofluorobenzene
Concen: 50.725 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 95 Resp: 83933

Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	175.6
176	83.0	0.0	171.4

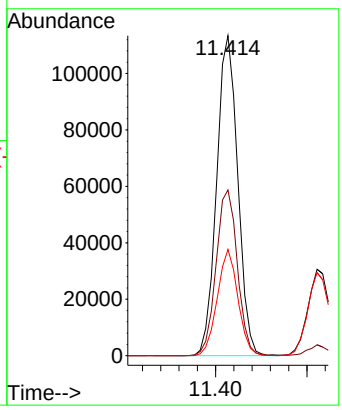




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:117 Resp: 18224

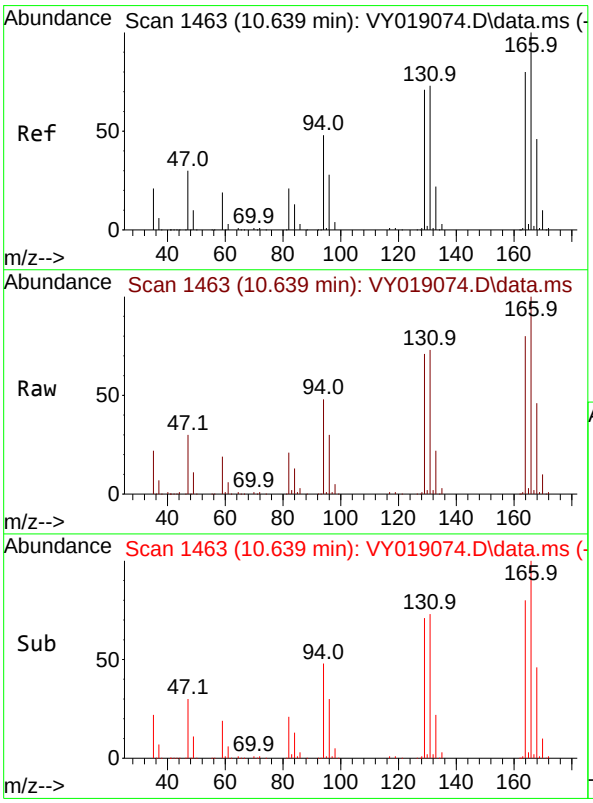
Ion	Ratio	Lower	Upper
117	100		
82	51.8	42.4	63.6
119	33.2	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

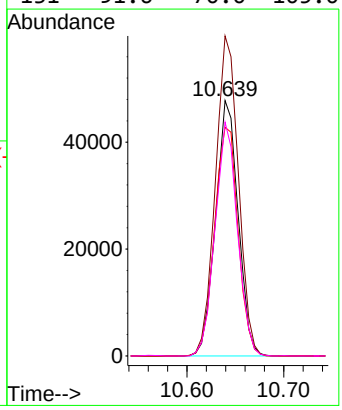
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

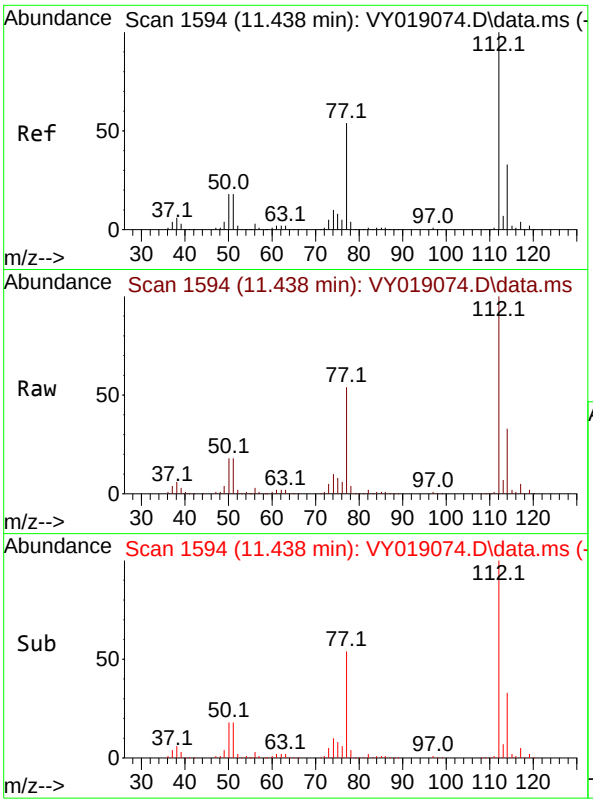


#64
Tetrachloroethene
Concen: 48.525 ug/l
RT: 10.639 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:164 Resp: 77297

Ion	Ratio	Lower	Upper
164	100		
166	125.3	102.6	154.0
129	89.5	72.0	108.0
131	91.6	70.0	105.0

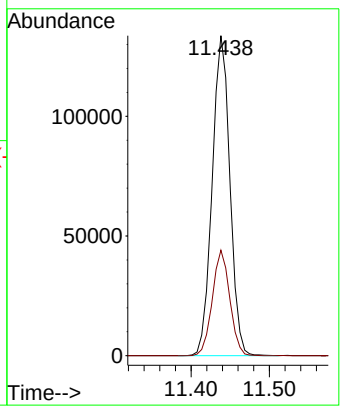




#65
Chlorobenzene
Concen: 49.995 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:112 Resp: 20979

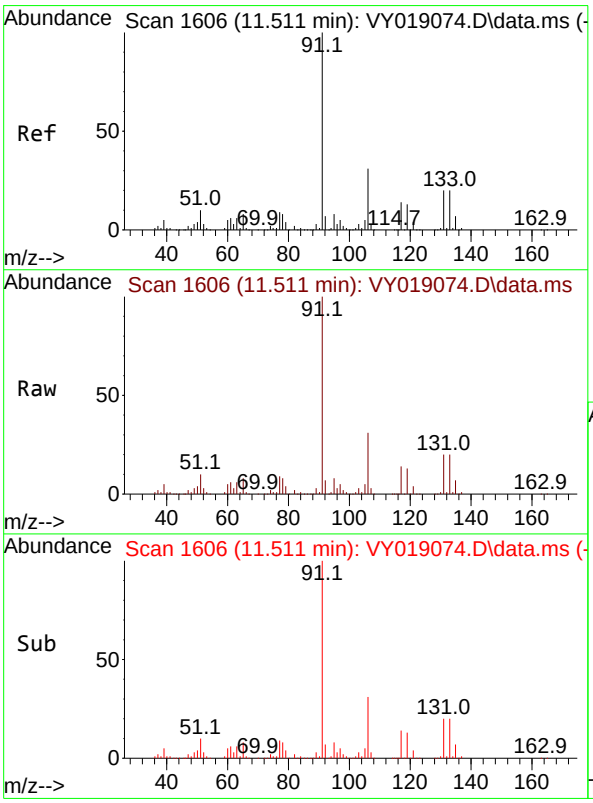
Ion	Ratio	Lower	Upper
112	100		
114	33.0	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

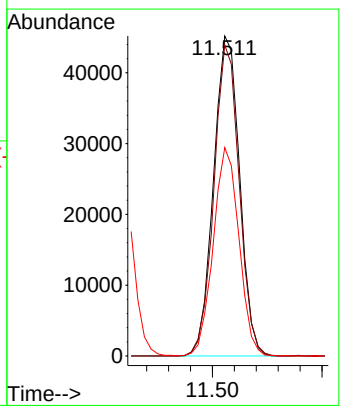
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

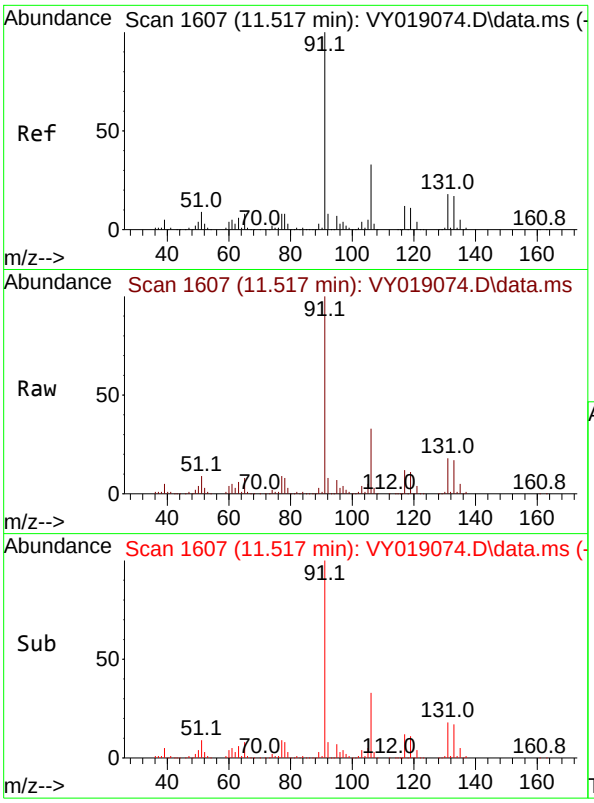


#66
1,1,1,2-Tetrachloroethane
Concen: 50.495 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:131 Resp: 74516

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.8	143.3
119	64.4	34.1	102.2

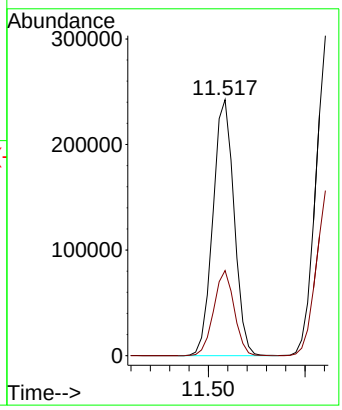




#67
Ethyl Benzene
Concen: 50.438 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 91 Resp: 36735

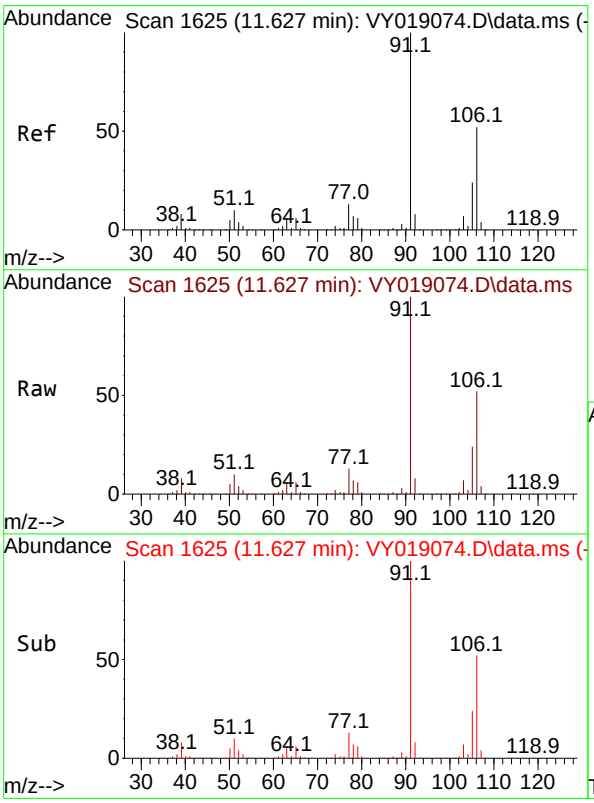
Ion	Ratio	Lower	Upper
91	100		
106	33.3	24.5	36.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

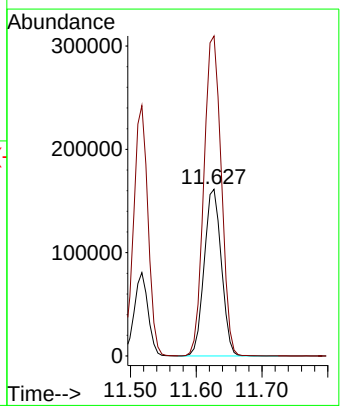
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

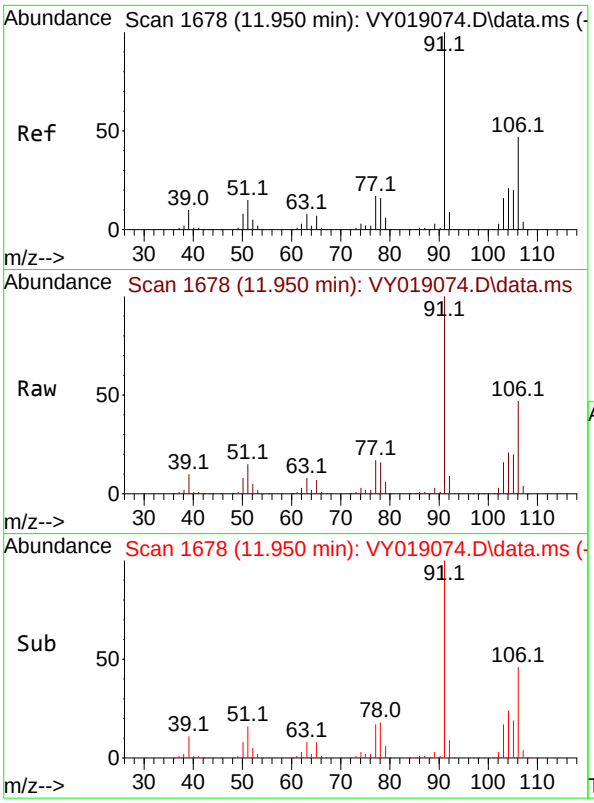


#68
m/p-Xylenes
Concen: 101.511 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:106 Resp: 293367

Ion	Ratio	Lower	Upper
106	100		
91	194.2	156.0	234.0

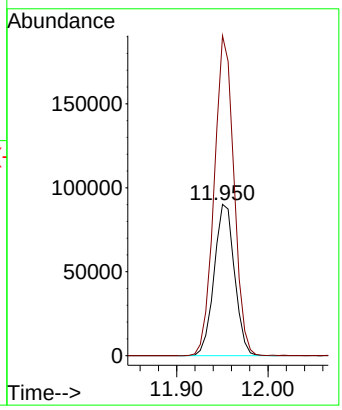




#69
o-Xylene
Concen: 52.268 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:106 Resp: 13988

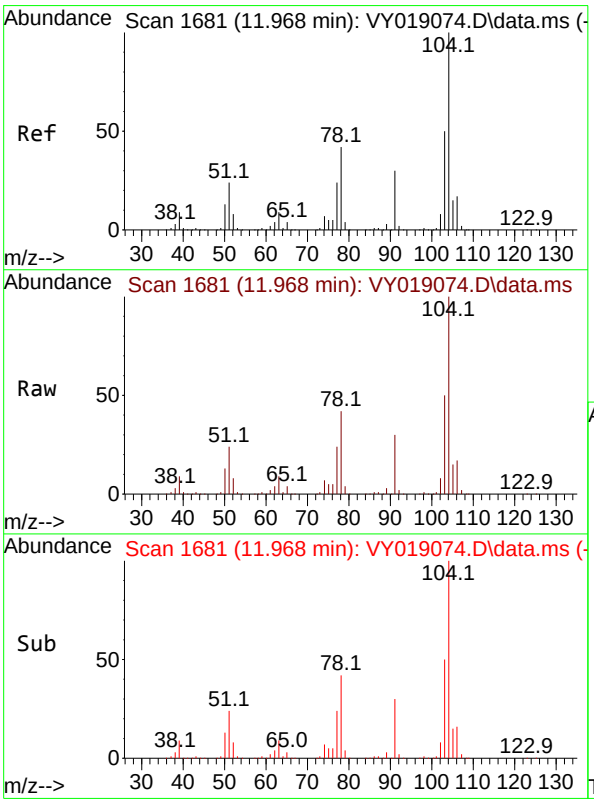
Ion	Ratio	Lower	Upper
106	100		
91	204.1	103.6	310.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

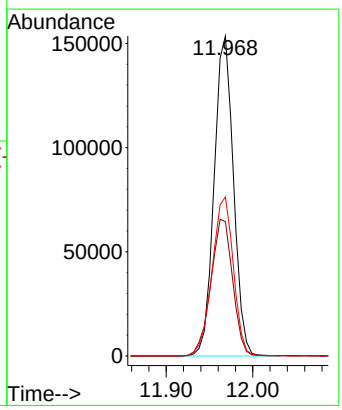
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

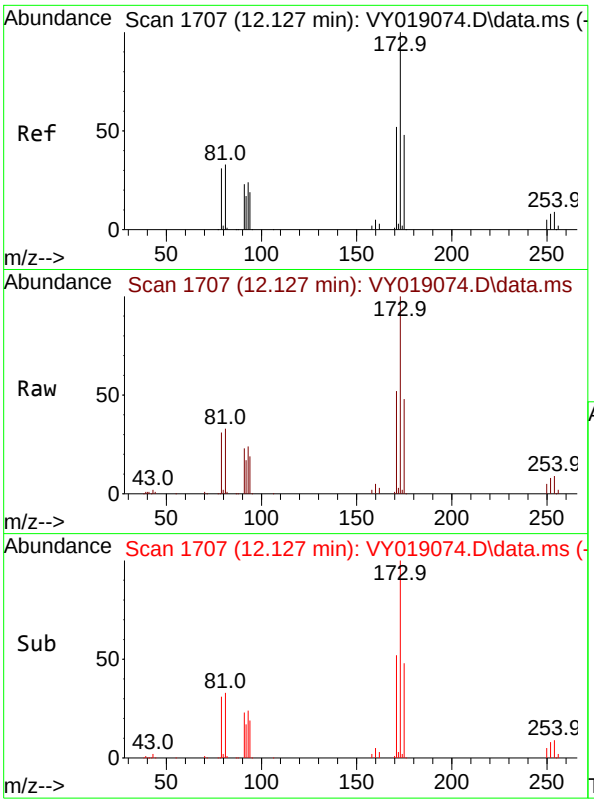


#70
Styrene
Concen: 52.243 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:104 Resp: 238425

Ion	Ratio	Lower	Upper
104	100		
78	48.2	37.0	55.4
103	54.6	44.2	66.2

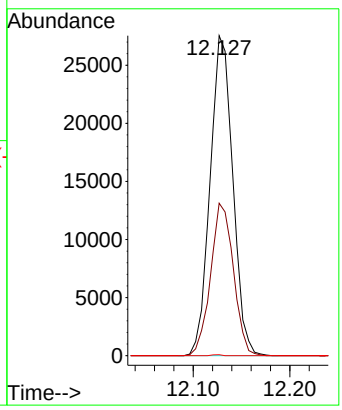




#71
Bromoform
Concen: 53.179 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:173 Resp: 4486

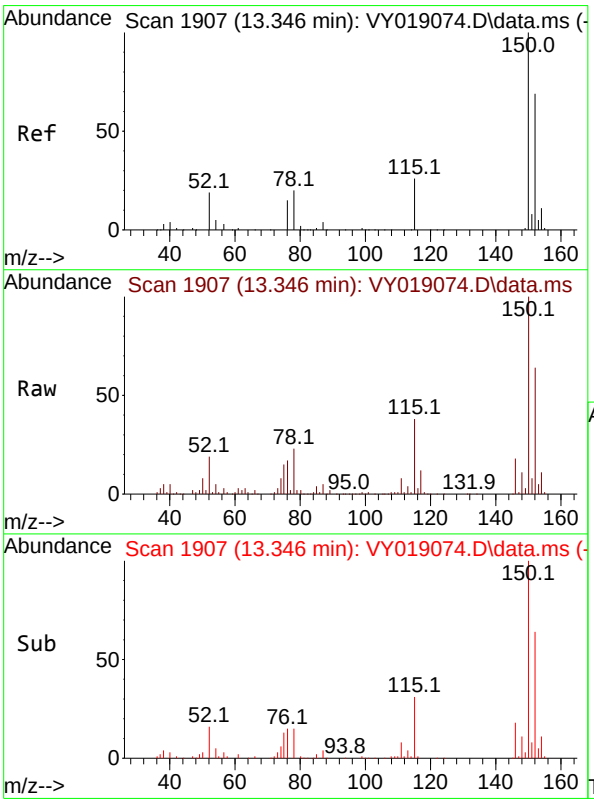
Ion	Ratio	Lower	Upper
173	100		
175	47.9	25.1	75.3
254	0.1	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

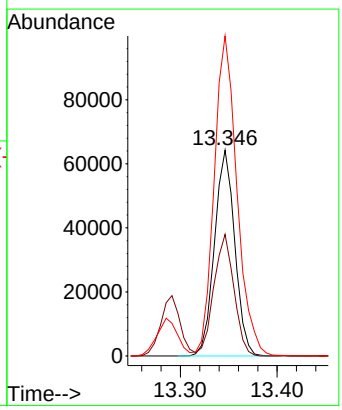
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

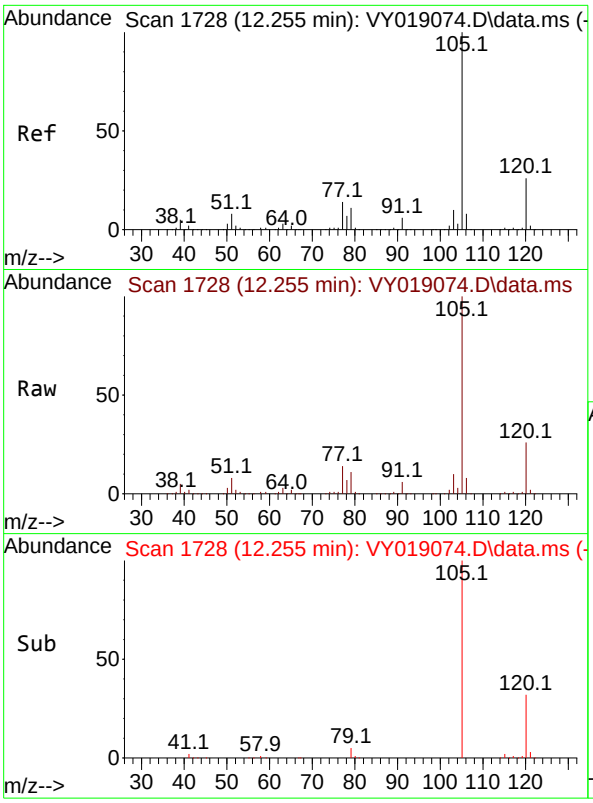


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:152 Resp: 93718

Ion	Ratio	Lower	Upper
152	100		
115	58.5	28.2	84.7
150	174.7	0.0	345.6

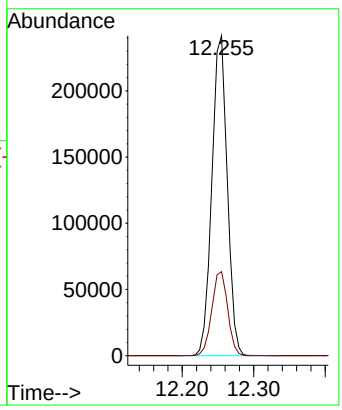




#73
Isopropylbenzene
Concen: 50.246 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:105 Resp: 360918

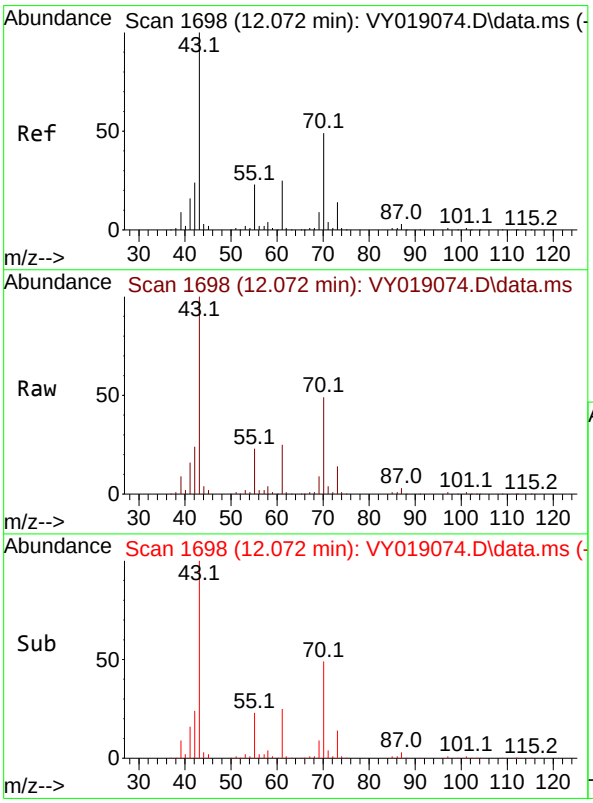
Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

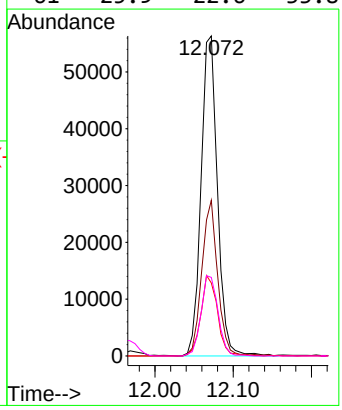
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

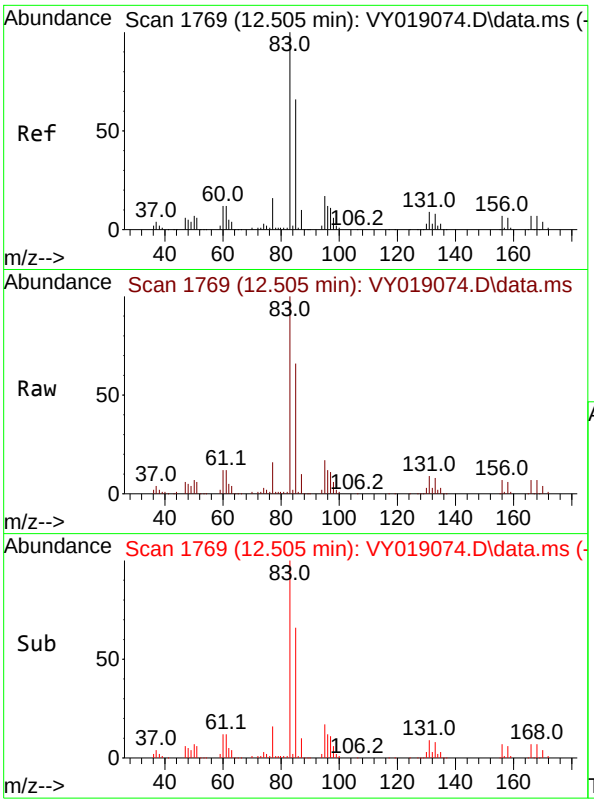


#74
N-amyl acetate
Concen: 52.312 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 43 Resp: 81937

Ion	Ratio	Lower	Upper
43	100		
70	47.4	41.4	62.2
55	25.3	23.3	34.9
61	25.9	22.6	33.8

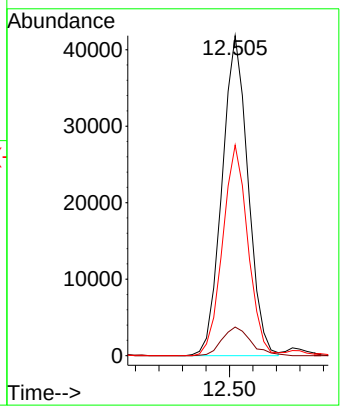




#75
1,1,2,2-Tetrachloroethane
Concen: 50.222 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 83 Resp: 6422

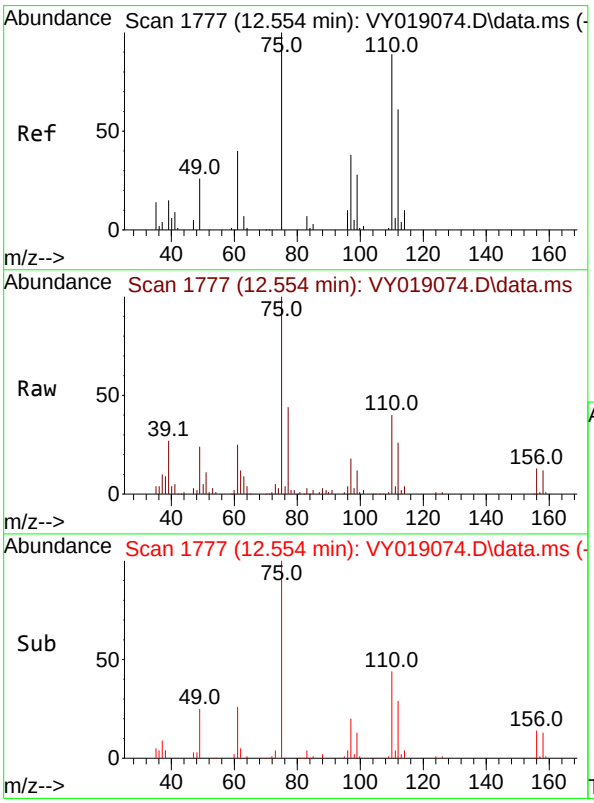
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.1	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

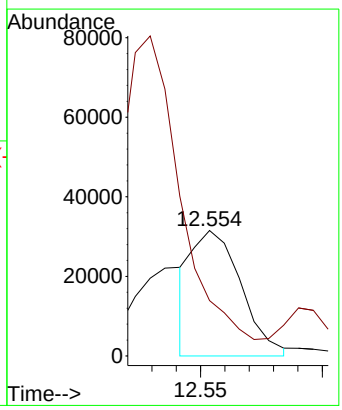
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

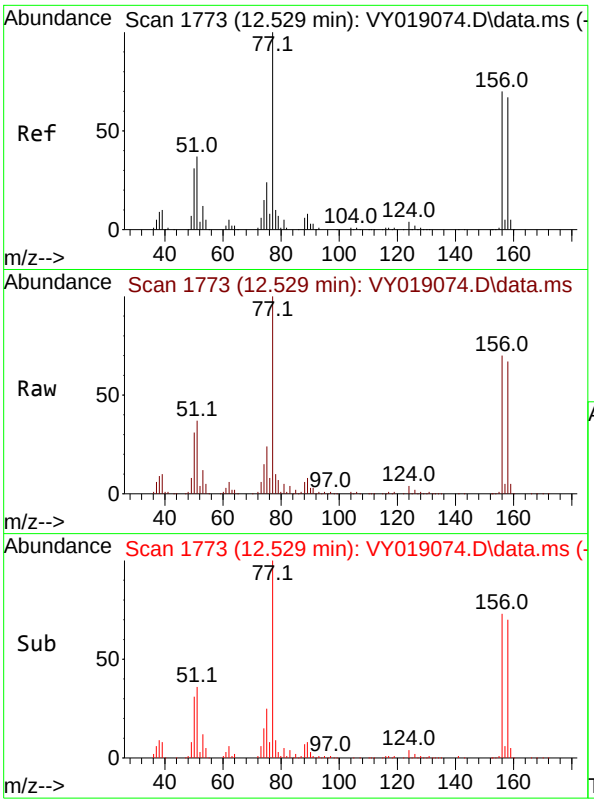


#76
1,2,3-Trichloropropane
Concen: 49.866 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 75 Resp: 44388

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 49.557 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

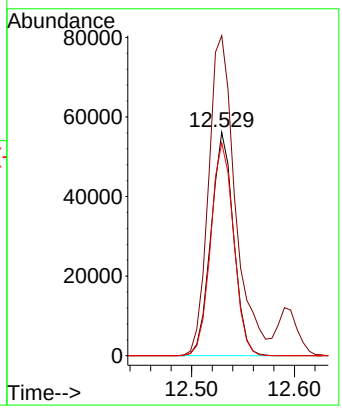
Tgt Ion:156 Resp: 8548

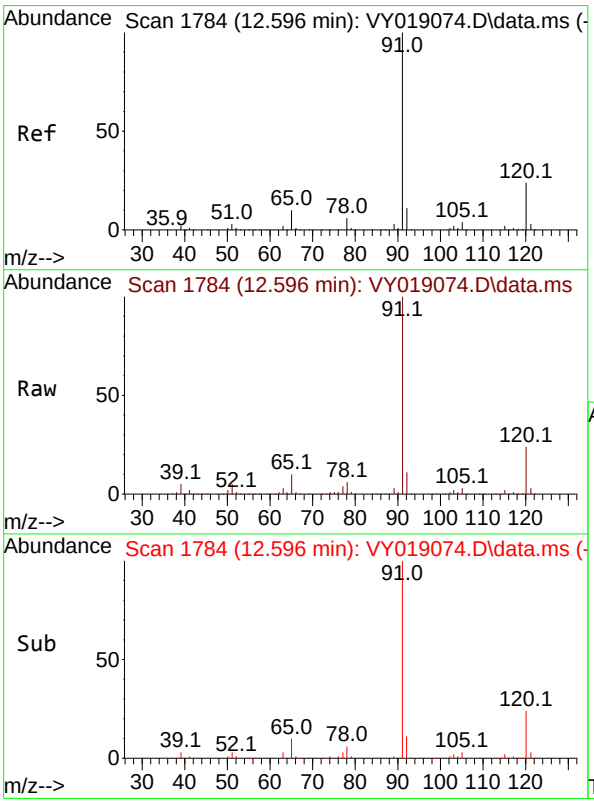
Ion	Ratio	Lower	Upper
156	100		
77	169.7	87.1	261.3
158	96.8	48.6	145.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

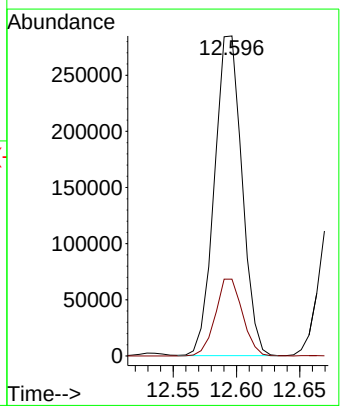


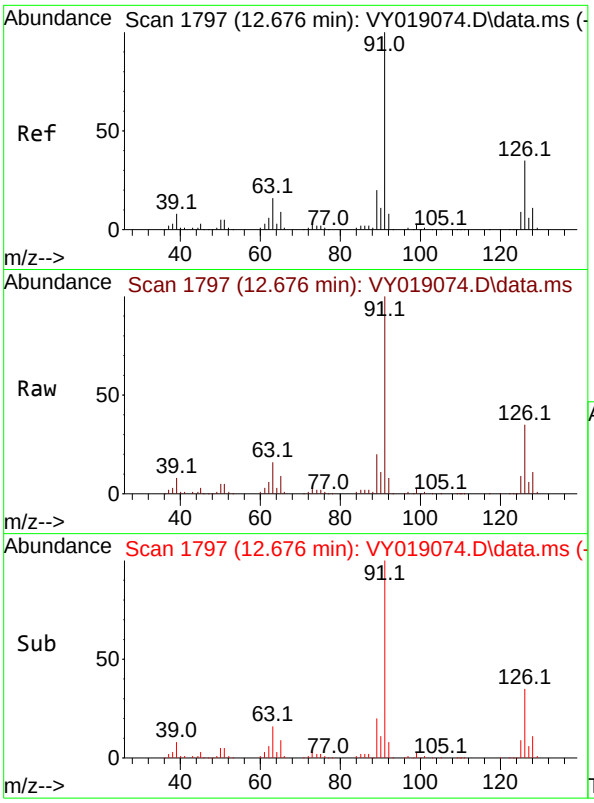


#78
n-propylbenzene
Concen: 50.193 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 91 Resp: 430996

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.5	34.4

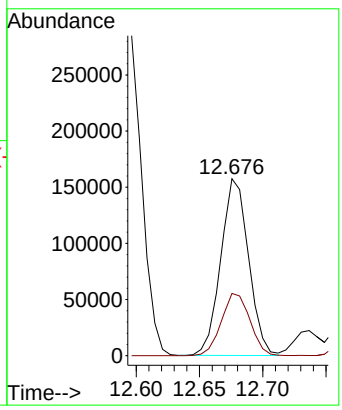




#79
2-Chlorotoluene
Concen: 50.031 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 91 Resp: 24085

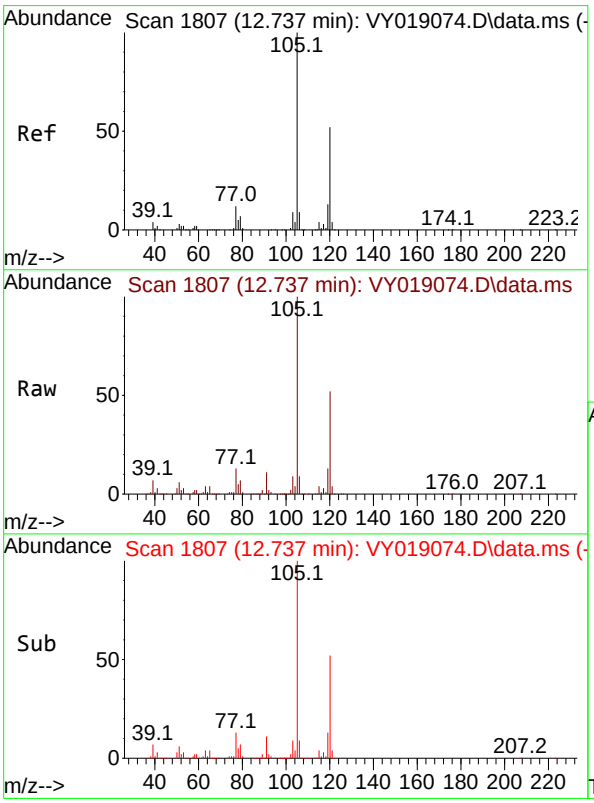
Ion	Ratio	Lower	Upper
91	100		
126	36.3	17.8	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

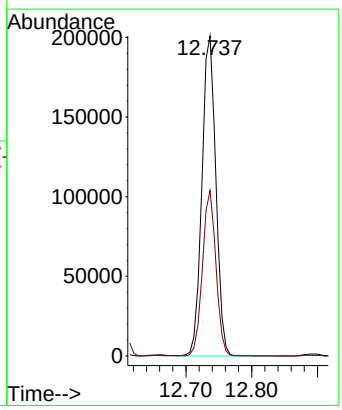
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

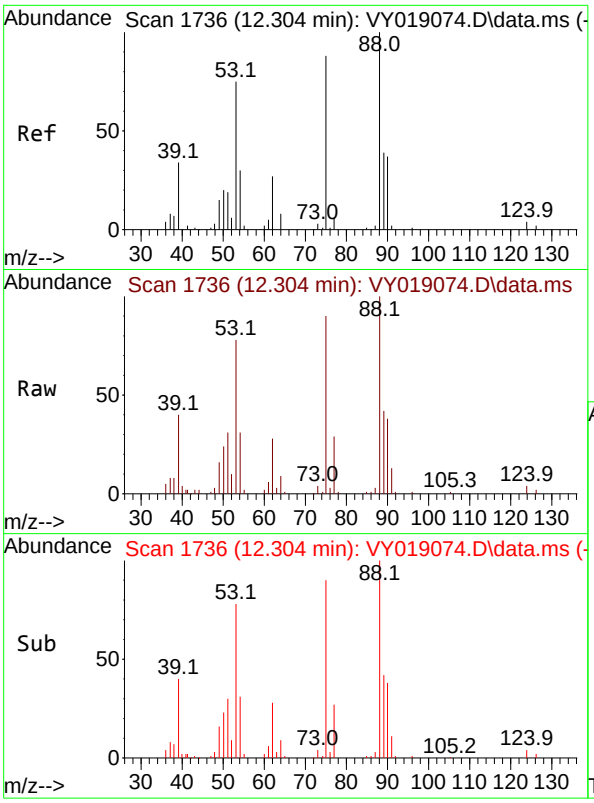


#80
1,3,5-Trimethylbenzene
Concen: 50.573 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:105 Resp: 295936

Ion	Ratio	Lower	Upper
105	100		
120	50.0	25.1	75.2

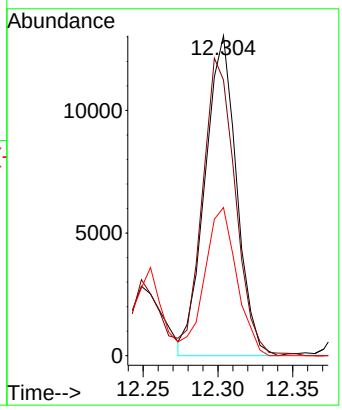




#81
trans-1,4-Dichloro-2-butene
Concen: 51.206 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 75 Resp: 1916

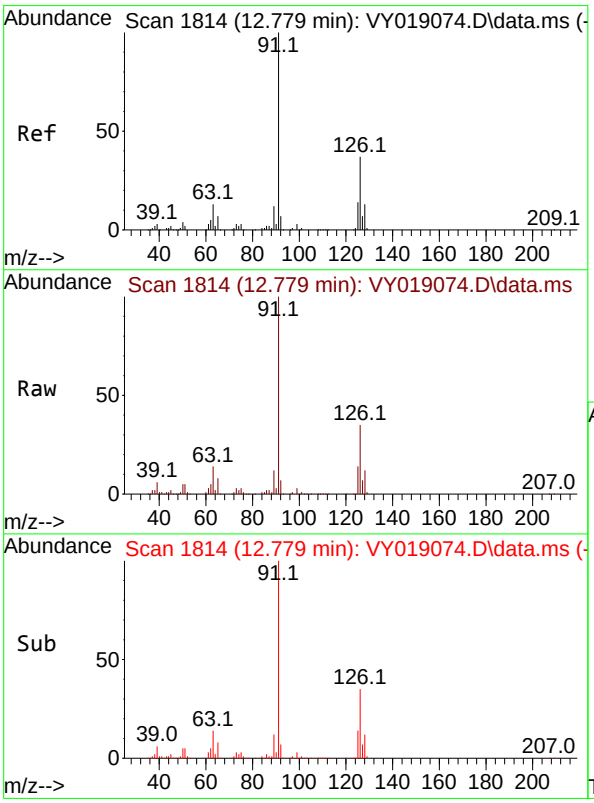
Ion	Ratio	Lower	Upper
75	100		
53	96.3	66.8	100.2
89	47.3	35.8	53.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

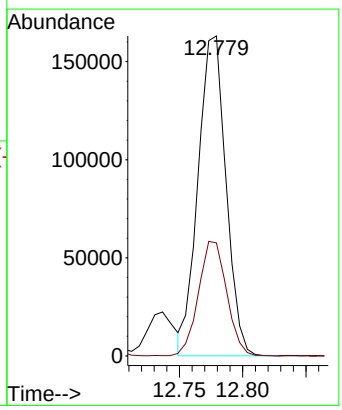
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

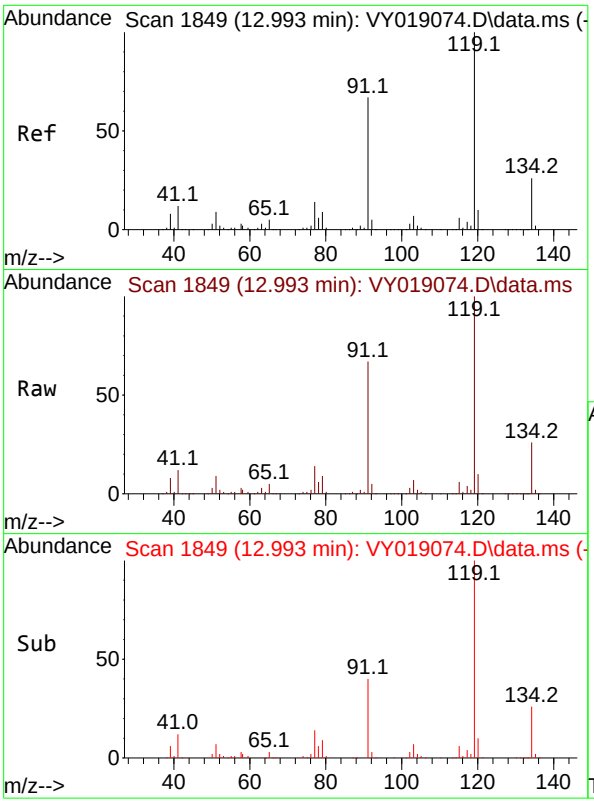


#82
4-Chlorotoluene
Concen: 49.983 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 91 Resp: 250346

Ion	Ratio	Lower	Upper
91	100		
126	36.5	17.6	52.9

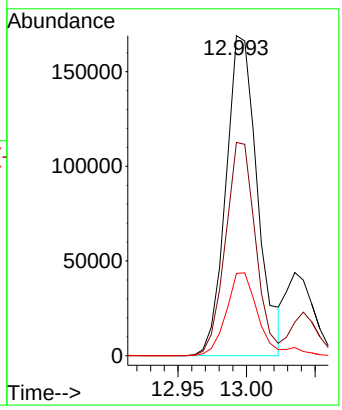




#83
tert-Butylbenzene
Concen: 50.007 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:119 Resp: 27023

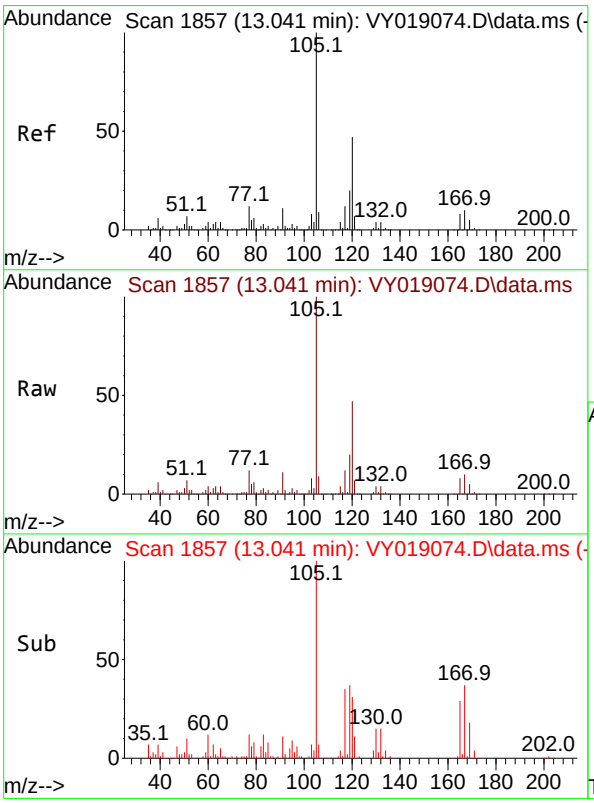
Ion	Ratio	Lower	Upper
119	100		
91	63.8	31.3	93.8
134	26.9	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

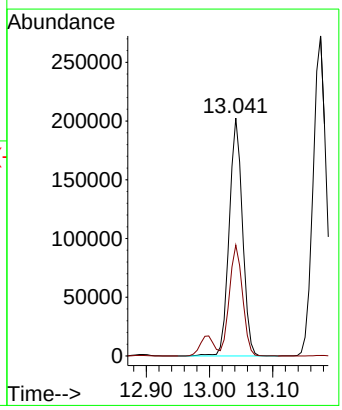
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

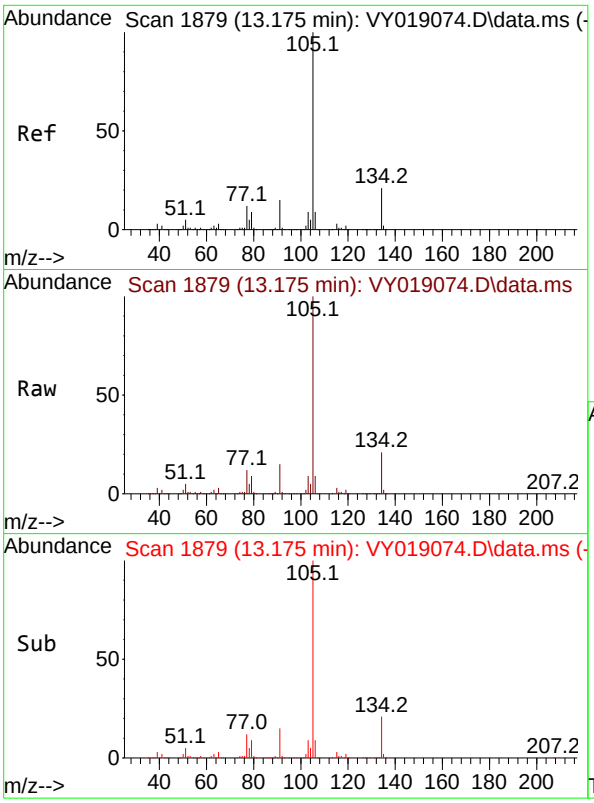


#84
1,2,4-Trimethylbenzene
Concen: 50.508 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:105 Resp: 294570

Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.2	69.6

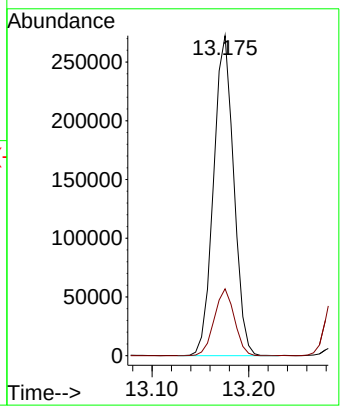




#85
sec-Butylbenzene
Concen: 50.094 ug/l
RT: 13.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:105 Resp: 39448

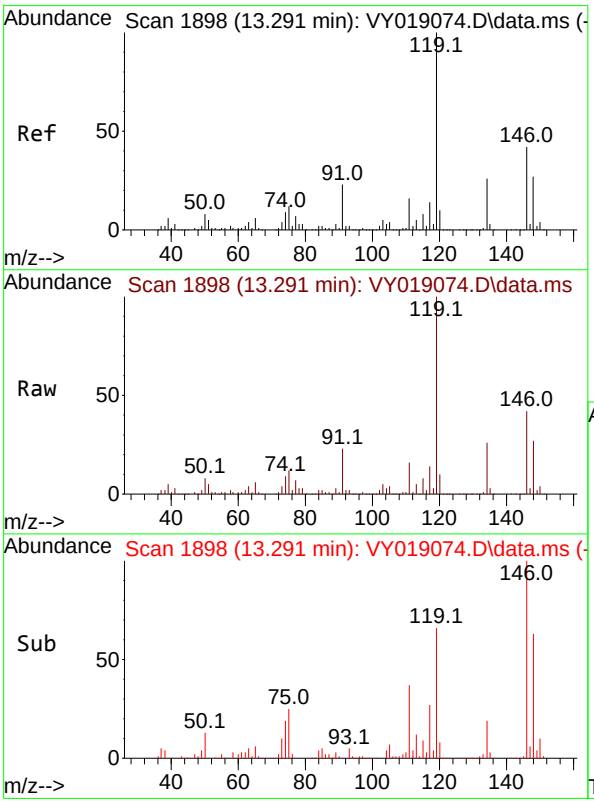
Ion	Ratio	Lower	Upper
105	100		
134	20.9	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

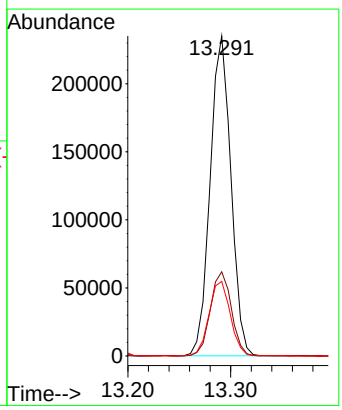
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

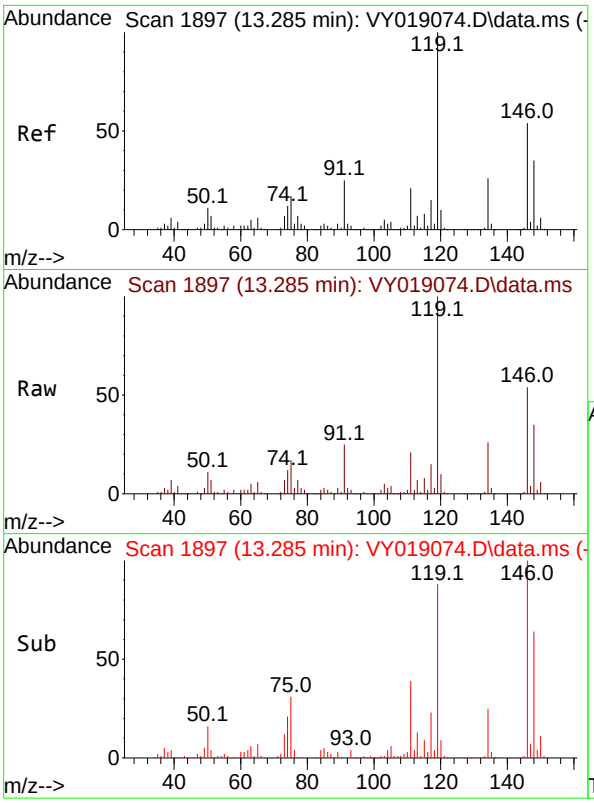


#86
p-Isopropyltoluene
Concen: 50.903 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:119 Resp: 329259

Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.1	39.3
91	23.9	10.7	32.1

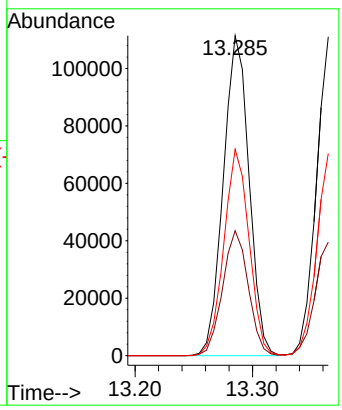




#87
1,3-Dichlorobenzene
Concen: 49.872 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:146 Resp: 16966

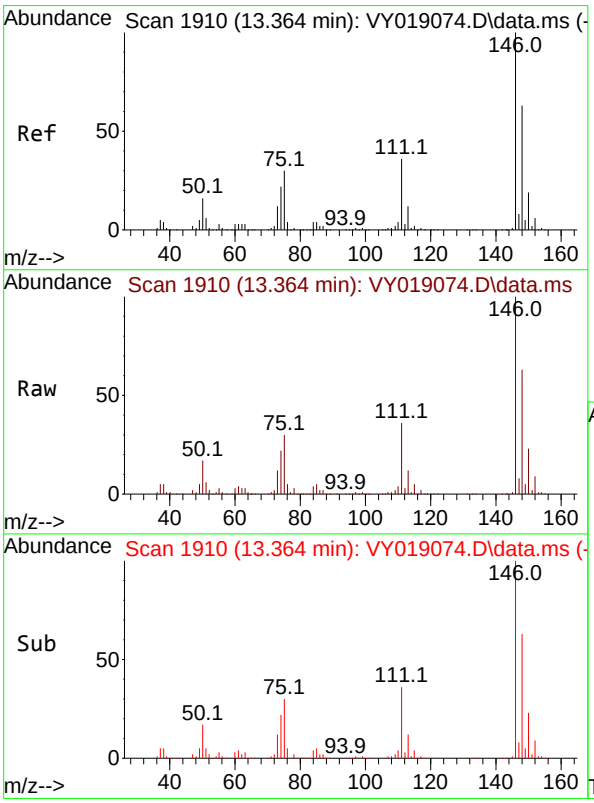
Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.0	57.0
148	63.3	31.7	95.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

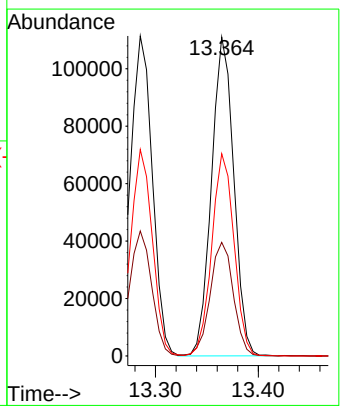
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

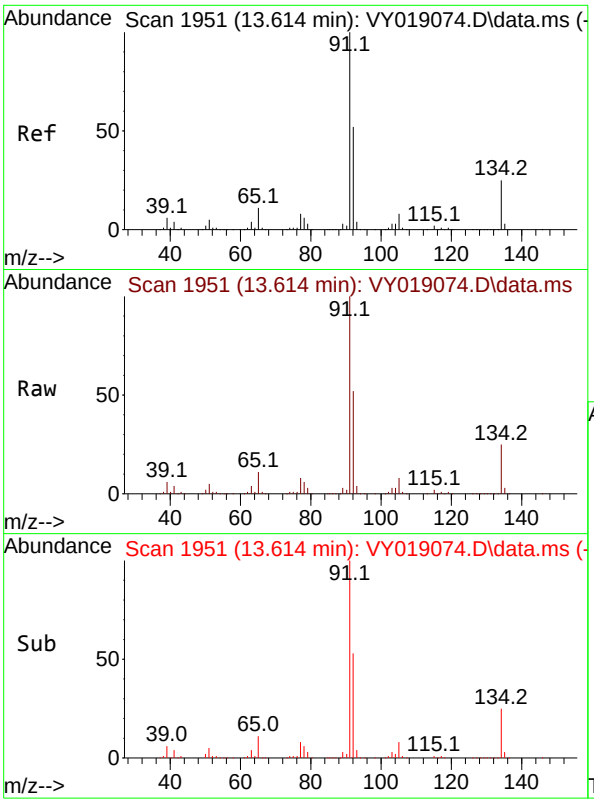


#88
1,4-Dichlorobenzene
Concen: 49.579 ug/l
RT: 13.364 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:146 Resp: 167665

Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.4	55.4
148	63.4	32.4	97.2

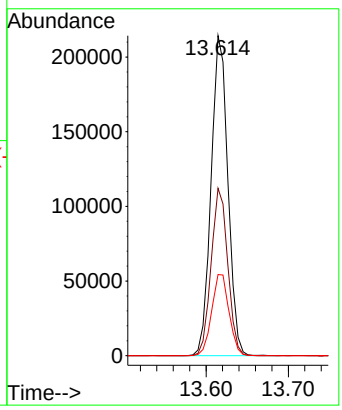




#89
n-Butylbenzene
Concen: 51.621 ug/l
RT: 13.614 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 91 Resp: 30442

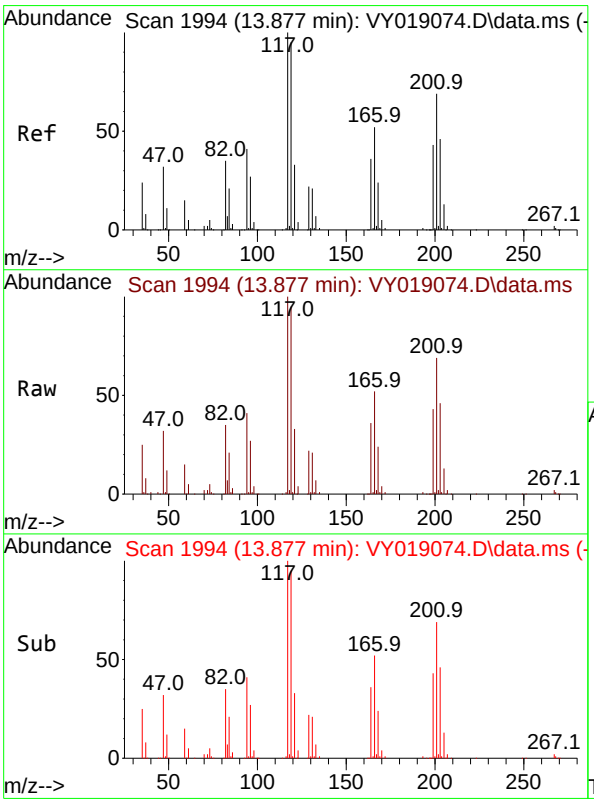
Ion	Ratio	Lower	Upper
91	100		
92	51.7	26.6	79.7
134	26.3	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

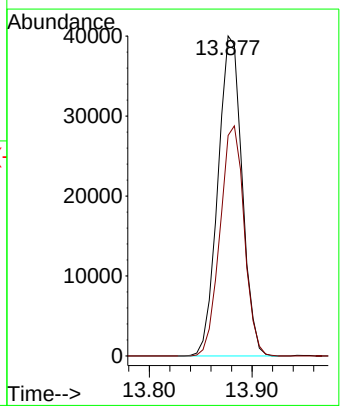
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

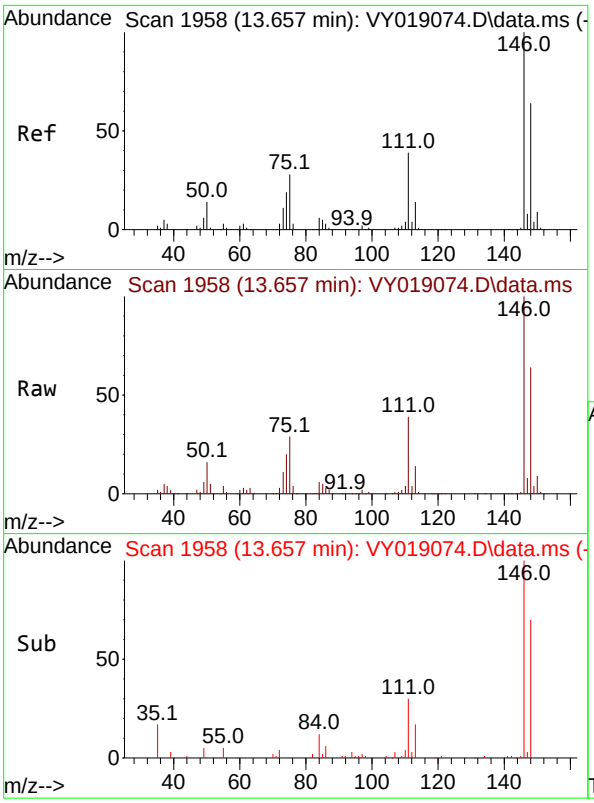


#90
Hexachloroethane
Concen: 51.147 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:117 Resp: 65210

Ion	Ratio	Lower	Upper
117	100		
201	72.0	37.4	112.2

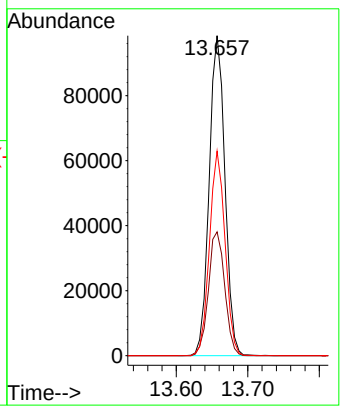




#91
1,2-Dichlorobenzene
Concen: 50.300 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:146 Resp: 15050

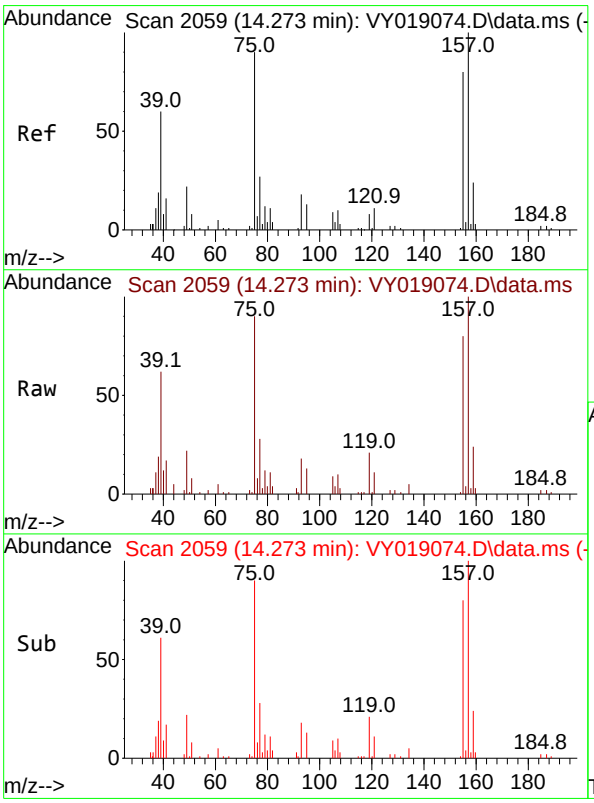
Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.9	59.7
148	63.1	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

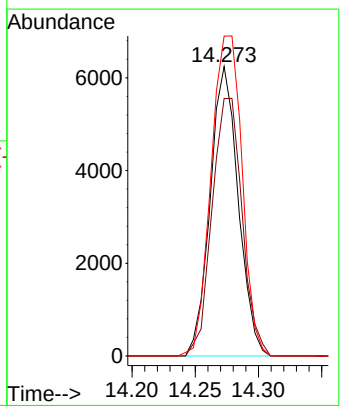
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

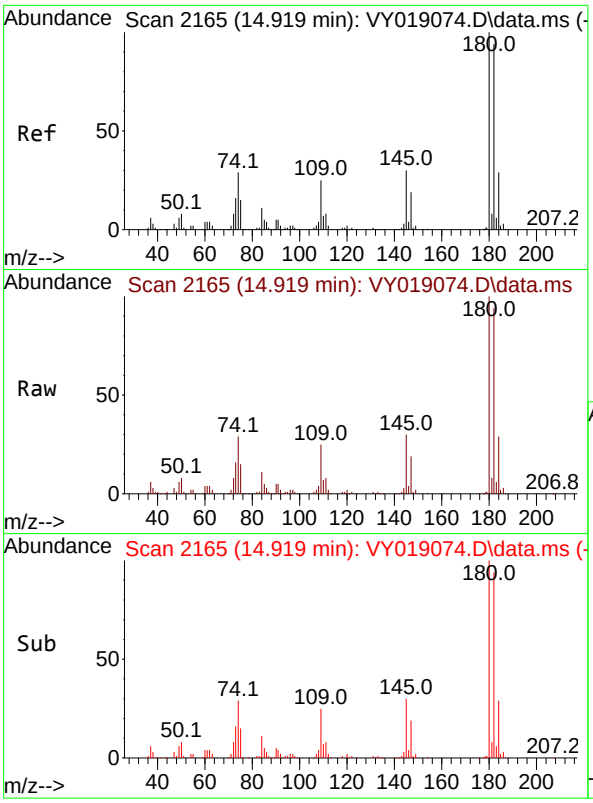


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.147 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion: 75 Resp: 9622

Ion	Ratio	Lower	Upper
75	100		
155	95.2	48.6	145.8
157	121.9	62.7	188.2

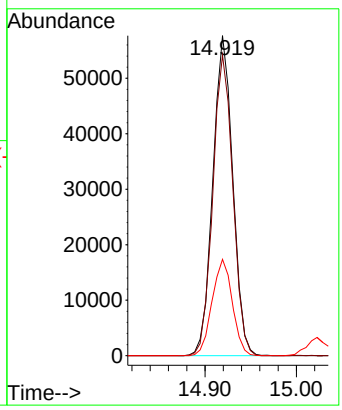




#93
1,2,4-Trichlorobenzene
Concen: 51.765 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:180 Resp: 8734

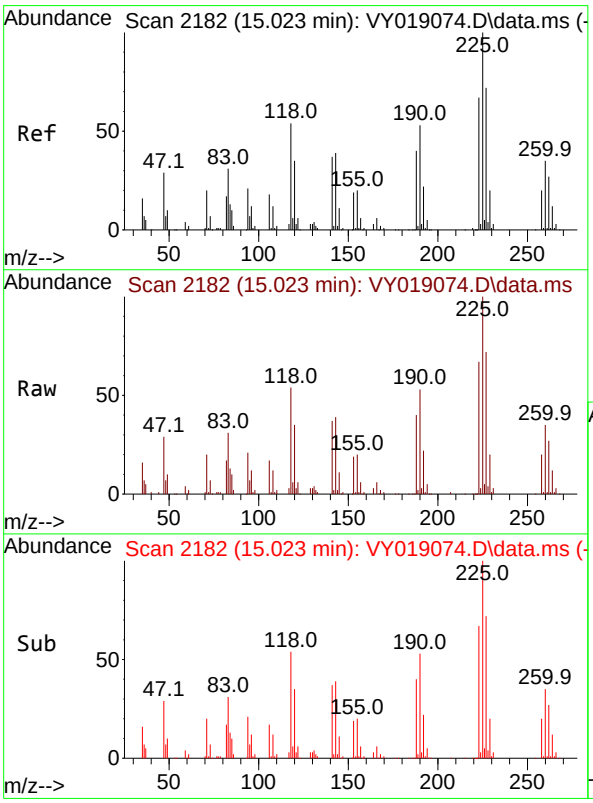
Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.9	143.8
145	30.6	14.2	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

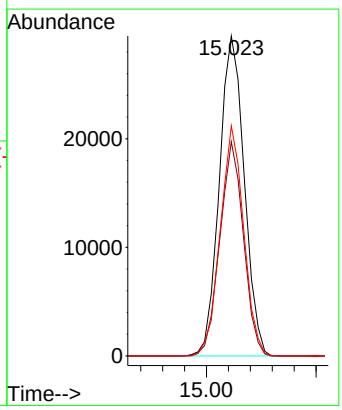
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

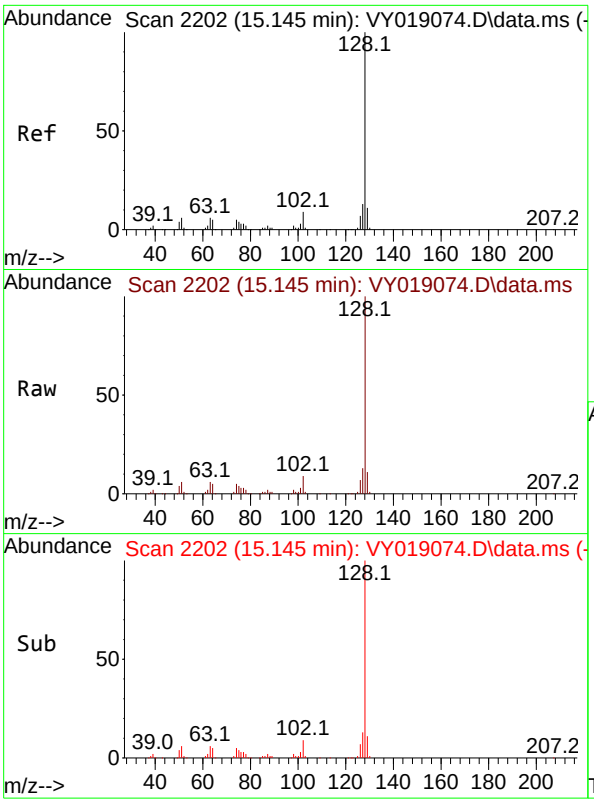


#94
Hexachlorobutadiene
Concen: 52.921 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:225 Resp: 46512

Ion	Ratio	Lower	Upper
225	100		
223	63.3	30.4	91.2
227	67.5	31.9	95.9

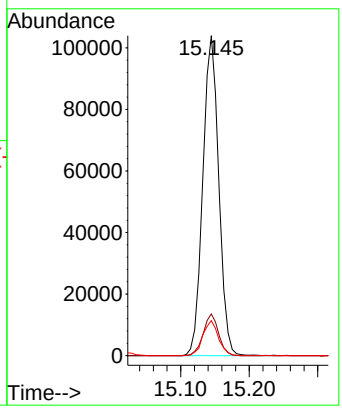




#95
Naphthalene
Concen: 55.903 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:128 Resp: 16835

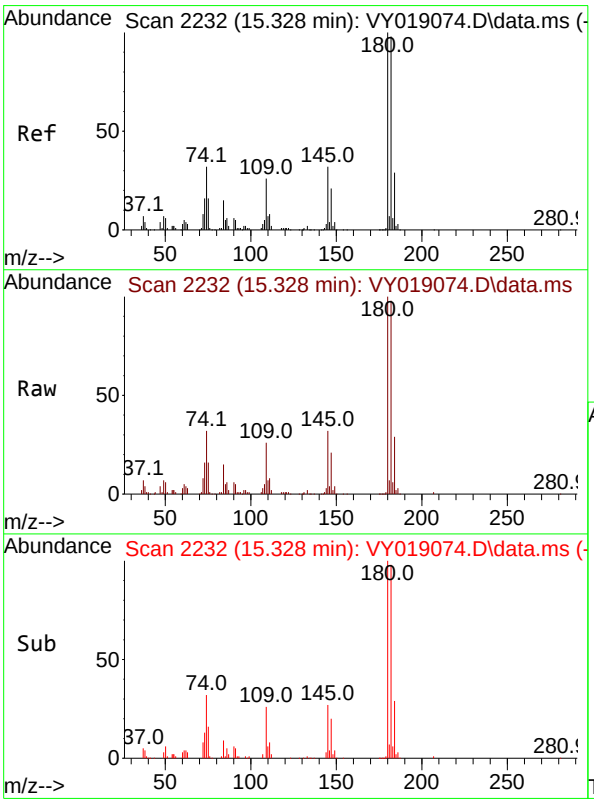
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	10.7	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

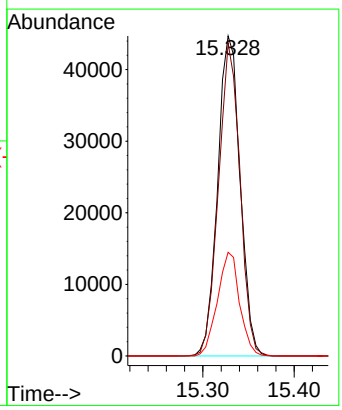
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024



#96
1,2,3-Trichlorobenzene
Concen: 53.603 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY019074.D
Acq: 15 Aug 2024 19:01

Tgt Ion:180 Resp: 76286

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.6	142.9
145	32.0	15.4	46.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019075.D
Acq On : 15 Aug 2024 19:26
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 04:59:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.695	168	138101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.603	114	217485	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	186224	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	97332	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.049	65	131744	95.166	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 190.340%#			
35) Dibromofluoromethane	7.622	113	139009	97.753	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 195.500%#			
50) Toluene-d8	10.097	98	501217	97.943	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 195.880%#			
62) 4-Bromofluorobenzene	12.402	95	168343	96.498	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 193.000%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	95861	94.610	ug/l	94
3) Chloromethane	2.062	50	165043	90.370	ug/l	97
4) Vinyl Chloride	2.196	62	201862	89.482	ug/l	99
5) Bromomethane	2.580	94	136164	105.407	ug/l	99
6) Chloroethane	2.720	64	130307	101.290	ug/l	98
7) Trichlorofluoromethane	3.043	101	315533	92.514	ug/l	97
8) Diethyl Ether	3.446	74	68873	93.554	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.799	101	139142	91.767	ug/l	98
10) Methyl Iodide	3.988	142	159310	107.193	ug/l	94
11) Tert butyl alcohol	4.842	59	53290	491.855	ug/l #	80
12) 1,1-Dichloroethene	3.775	96	130899	95.022	ug/l	98
13) Acrolein	3.641	56	51107	512.223	ug/l	99
14) Allyl chloride	4.366	41	179178	97.830	ug/l	92
15) Acrylonitrile	5.031	53	147055	488.188	ug/l	99
16) Acetone	3.854	43	120062	467.654	ug/l	91
17) Carbon Disulfide	4.092	76	375065	96.530	ug/l	99
18) Methyl Acetate	4.366	43	75283	95.544	ug/l	95
19) Methyl tert-butyl Ether	5.098	73	334593	100.185	ug/l	99
20) Methylene Chloride	4.598	84	147802	103.679	ug/l	93
21) trans-1,2-Dichloroethene	5.098	96	149981	97.452	ug/l	97
22) Diisopropyl ether	6.006	45	411609	98.170	ug/l	95
23) Vinyl Acetate	5.945	43	1699539	511.986	ug/l	98
24) 1,1-Dichloroethane	5.897	63	244557	95.377	ug/l	99
25) 2-Butanone	6.872	43	198442	479.954	ug/l	95
26) 2,2-Dichloropropane	6.872	77	201225	96.912	ug/l	100
27) cis-1,2-Dichloroethene	6.872	96	176585	97.497	ug/l	99
28) Bromochloromethane	7.226	49	100843	93.756	ug/l	100
29) Tetrahydrofuran	7.238	42	129393	486.837	ug/l	94
30) Chloroform	7.402	83	275844	96.545	ug/l	100
31) Cyclohexane	7.689	56	199014	105.228	ug/l	98
32) 1,1,1-Trichloroethane	7.604	97	250033	99.578	ug/l	98
36) 1,1-Dichloropropene	7.823	75	190254	97.430	ug/l	99
37) Ethyl Acetate	6.963	43	90918	105.089	ug/l	97
38) Carbon Tetrachloride	7.805	117	228772	101.092	ug/l	99
39) Methylcyclohexane	9.097	83	249269	99.473	ug/l	97
40) Benzene	8.067	78	585143	97.705	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019075.D
Acq On : 15 Aug 2024 19:26
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 16 04:59:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.207	41	43811	97.936	ug/l		97
42) 1,2-Dichloroethane	8.146	62	159836	98.832	ug/l		97
43) Isopropyl Acetate	8.183	43	177549	101.475	ug/l	#	82
44) Trichloroethene	8.853	130	161783	96.814	ug/l		97
45) 1,2-Dichloropropane	9.134	63	128556	96.344	ug/l		96
46) Dibromomethane	9.219	93	86420	99.856	ug/l		98
47) Bromodichloromethane	9.414	83	211709	99.708	ug/l		98
48) Methyl methacrylate	9.213	41	83008	106.452	ug/l	#	86
49) 1,4-Dioxane	9.213	88	21365	2037.919	ug/l	#	95
51) 4-Methyl-2-Pentanone	9.993	43	477113	513.768	ug/l		94
52) Toluene	10.164	92	393934	100.206	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	187770	106.607	ug/l		99
54) cis-1,3-Dichloropropene	9.847	75	216850	102.373	ug/l	#	90
55) 1,1,2-Trichloroethane	10.567	97	112913	101.347	ug/l		95
56) Ethyl methacrylate	10.432	69	156451	107.284	ug/l	#	86
57) 1,3-Dichloropropane	10.713	76	180414	99.336	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.701	63	362698	524.275	ug/l		96
59) 2-Hexanone	10.756	43	332380	520.968	ug/l		93
60) Dibromochloromethane	10.908	129	156015	102.814	ug/l		99
61) 1,2-Dibromoethane	11.012	107	109497	101.684	ug/l		98
64) Tetrachloroethene	10.640	164	162117	99.596	ug/l		96
65) Chlorobenzene	11.438	112	427660	99.733	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	151755	100.636	ug/l		98
67) Ethyl Benzene	11.518	91	743834	99.943	ug/l		96
68) m/p-Xylenes	11.627	106	593903	201.108	ug/l		99
69) o-Xylene	11.950	106	278586	101.869	ug/l		100
70) Styrene	11.969	104	494829	106.106	ug/l		98
71) Bromoform	12.127	173	91352	105.975	ug/l	#	97
73) Isopropylbenzene	12.255	105	732225	98.153	ug/l		99
74) N-amyl acetate	12.066	43	161654	99.375	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.505	83	121783	91.697	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	82804m	89.569	ug/l		
77) Bromobenzene	12.530	156	174150	97.204	ug/l		95
78) n-propylbenzene	12.591	91	870578	97.620	ug/l		99
79) 2-Chlorotoluene	12.676	91	488757	97.756	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	607856	100.020	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	38596	99.304	ug/l		89
82) 4-Chlorotoluene	12.773	91	519527	99.876	ug/l		99
83) tert-Butylbenzene	12.999	119	575111	102.473	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	619185	102.226	ug/l		100
85) sec-Butylbenzene	13.176	105	832954	101.845	ug/l		99
86) p-Isopropyltoluene	13.292	119	701773	104.464	ug/l		97
87) 1,3-Dichlorobenzene	13.286	146	360663	102.077	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	338741	96.447	ug/l		99
89) n-Butylbenzene	13.615	91	613221	100.122	ug/l		99
90) Hexachloroethane	13.877	117	134668	101.704	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	301659	97.075	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	19888	101.793	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	183172	104.524	ug/l		98
94) Hexachlorobutadiene	15.023	225	94484	103.511	ug/l		98
95) Naphthalene	15.145	128	353032	112.877	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	158794	107.435	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019075.D
Acq On : 15 Aug 2024 19:26
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 04:59:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

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

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

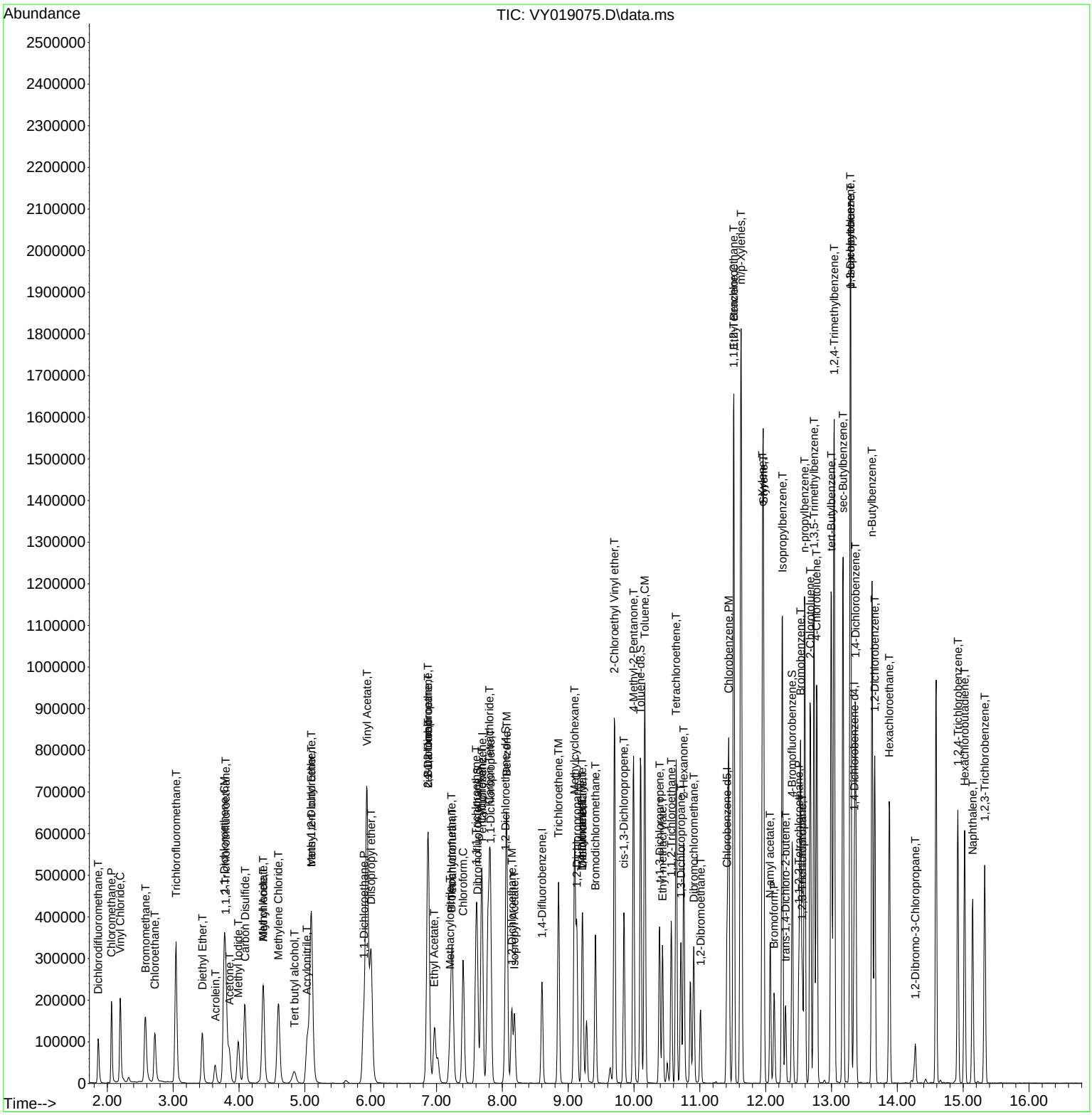
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019075.D
Acq On : 15 Aug 2024 19:26
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

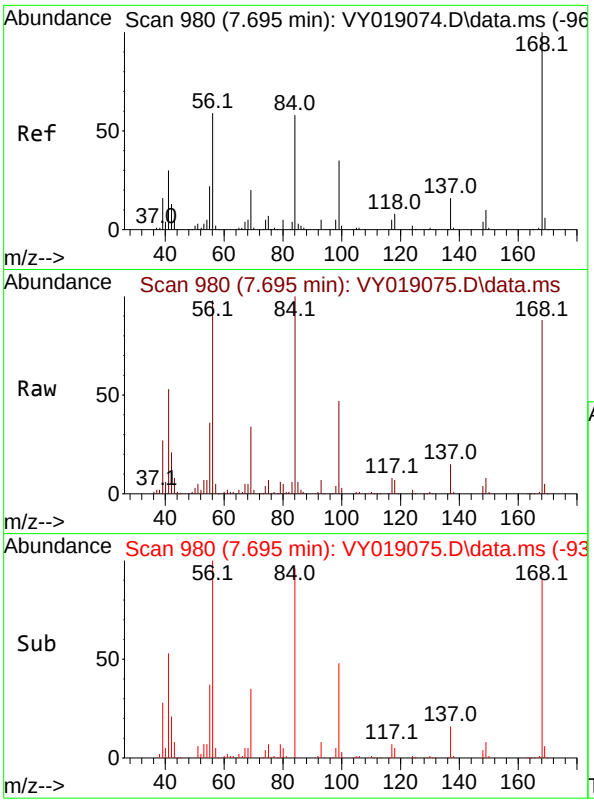
Quant Time: Aug 16 04:59:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

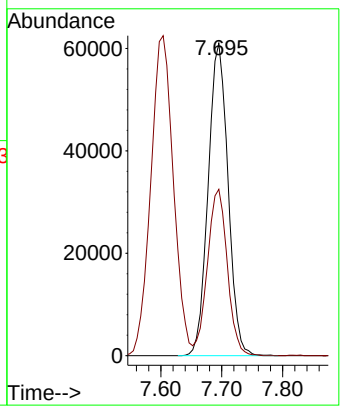




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:168 Resp: 13810

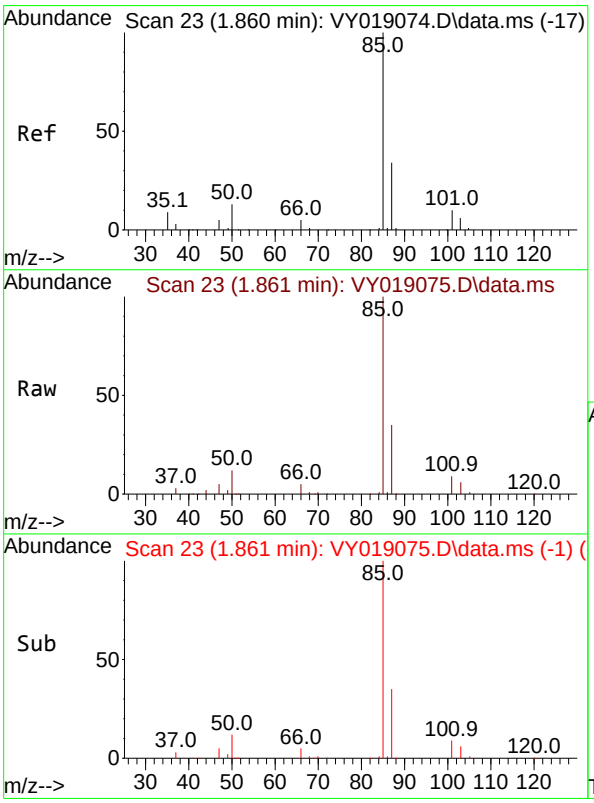
Ion	Ratio	Lower	Upper
168	100		
99	53.3	39.1	58.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

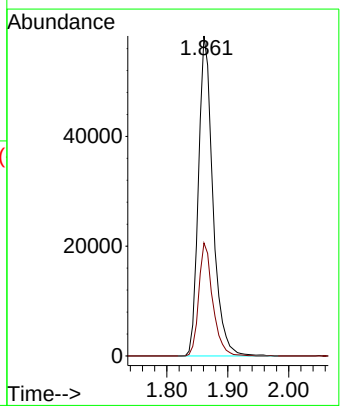
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

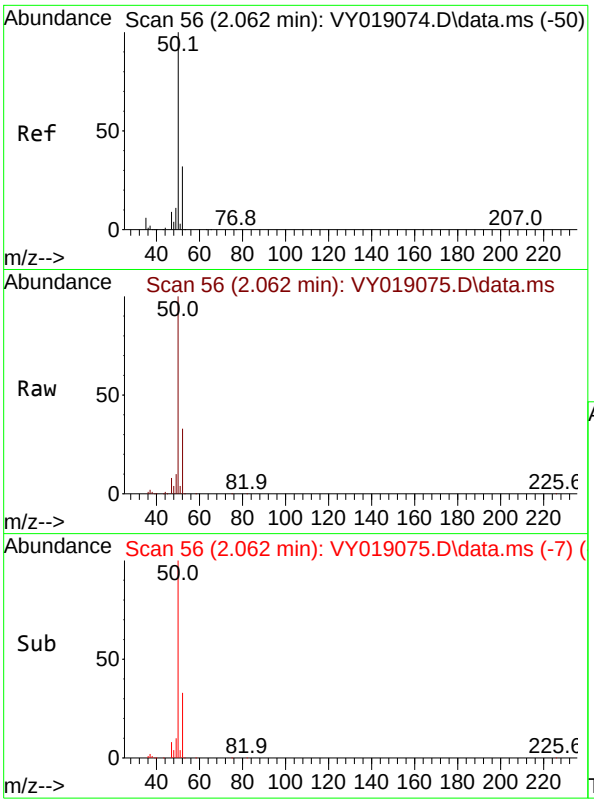


#2
Dichlorodifluoromethane
Concen: 94.610 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 85 Resp: 95861

Ion	Ratio	Lower	Upper
85	100		
87	35.3	16.0	48.0

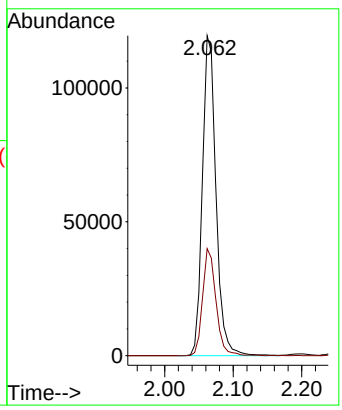




#3
Chloromethane
Concen: 90.370 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 50 Resp: 16504

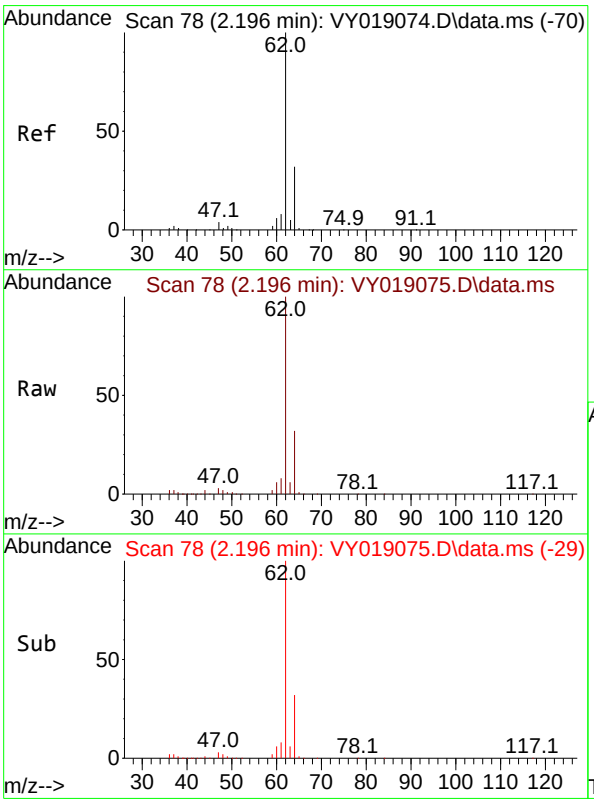
Ion	Ratio	Lower	Upper
50	100		
52	33.4	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

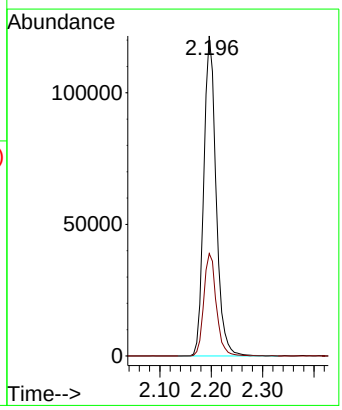
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

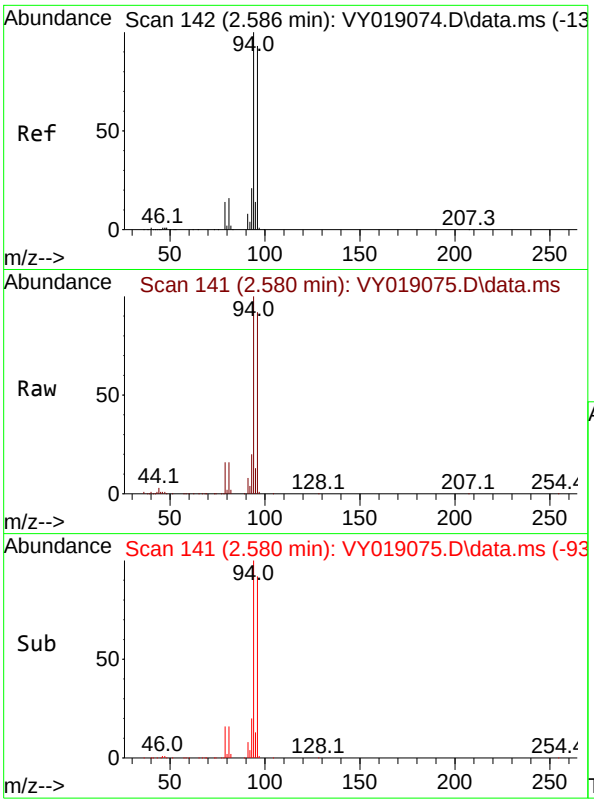


#4
Vinyl Chloride
Concen: 89.482 ug/l
RT: 2.196 min Scan# 78
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 62 Resp: 201862

Ion	Ratio	Lower	Upper
62	100		
64	32.0	26.1	39.1

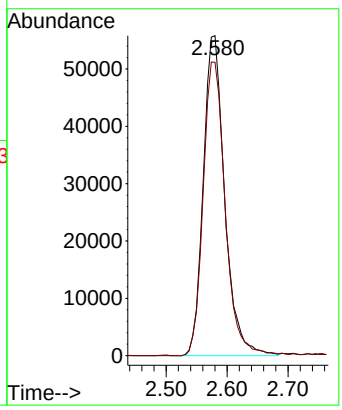




#5
Bromomethane
Concen: 105.407 ug/l
RT: 2.580 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 94 Resp: 13616

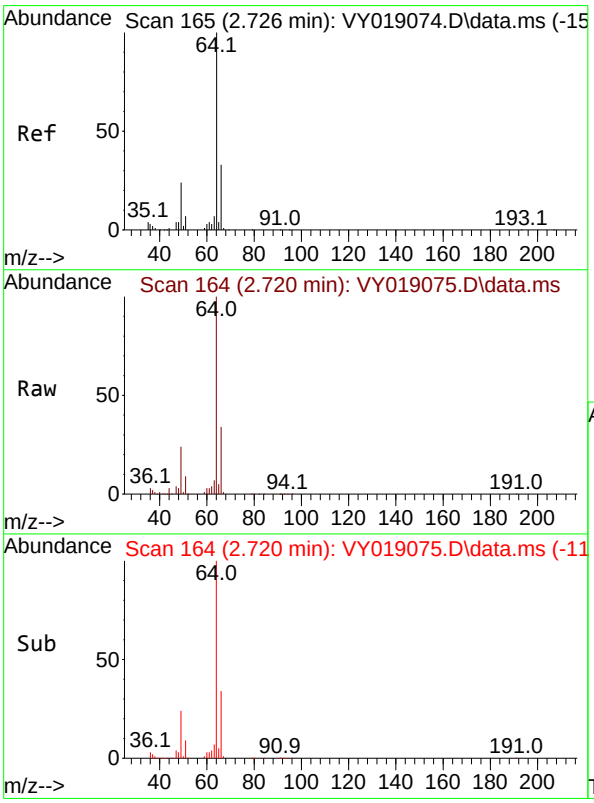
Ion	Ratio	Lower	Upper
94	100		
96	91.7	74.1	111.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

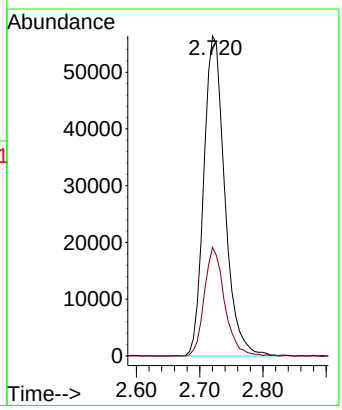
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

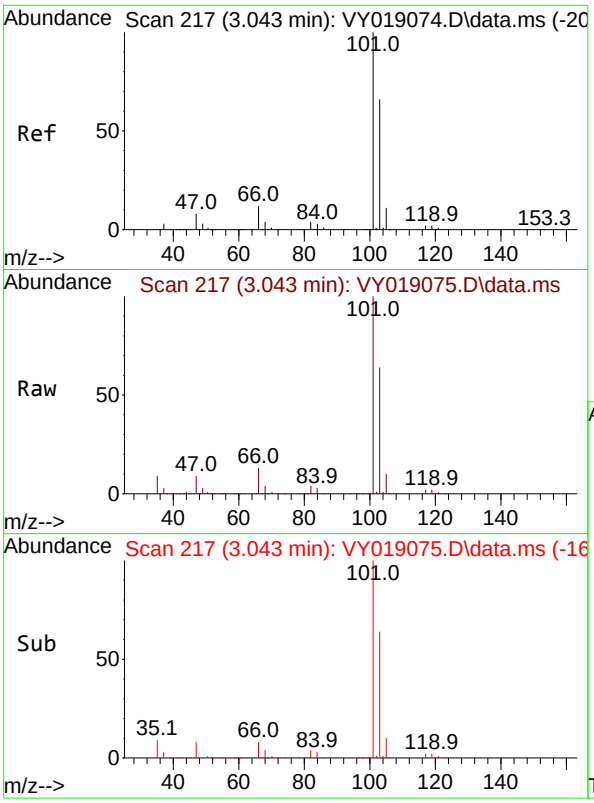


#6
Chloroethane
Concen: 101.290 ug/l
RT: 2.720 min Scan# 164
Delta R.T. -0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 64 Resp: 130307

Ion	Ratio	Lower	Upper
64	100		
66	33.9	26.1	39.1

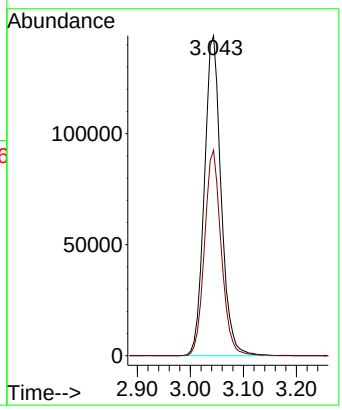




#7
Trichlorofluoromethane
Concen: 92.514 ug/l
RT: 3.043 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:101 Resp: 31553

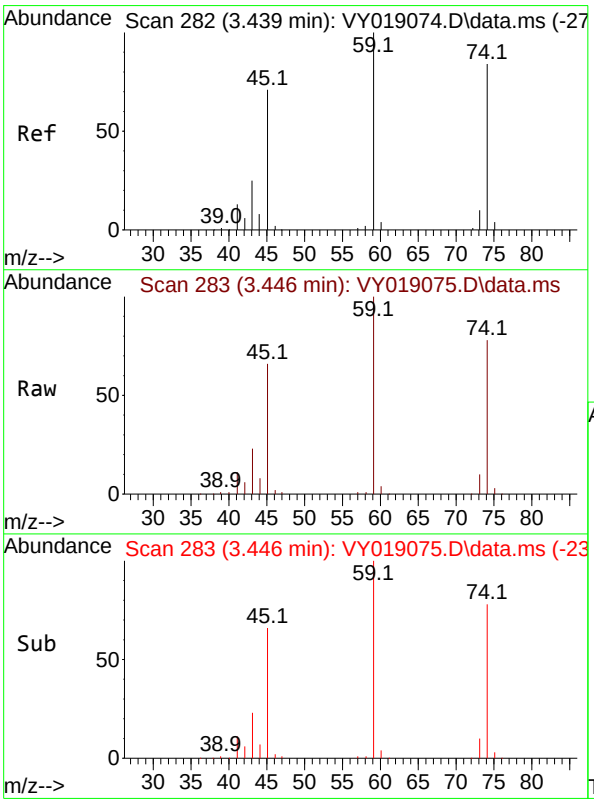
Ion	Ratio	Lower	Upper
101	100		
103	64.2	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

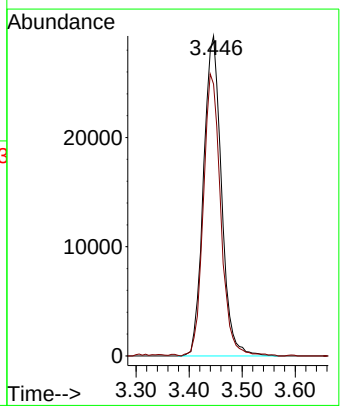
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

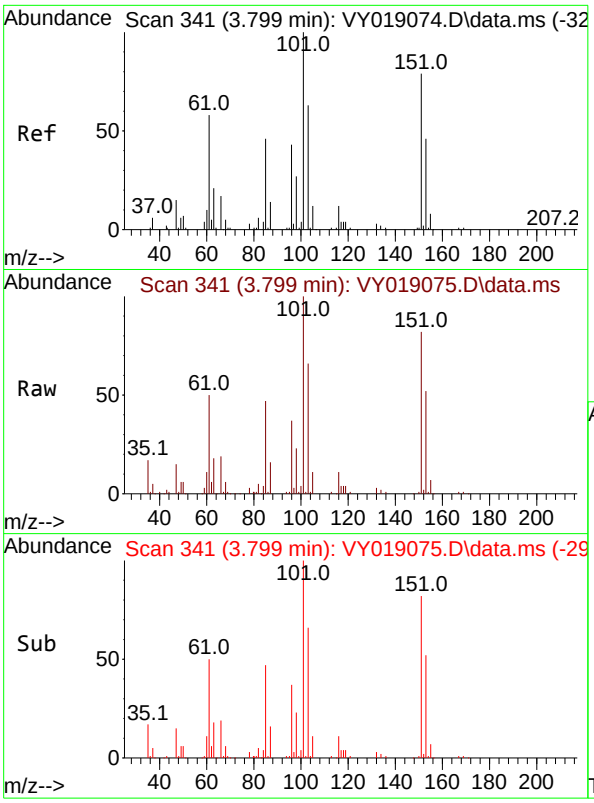


#8
Diethyl Ether
Concen: 93.554 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 74 Resp: 68873

Ion	Ratio	Lower	Upper
74	100		
45	85.4	41.3	124.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 91.767 ug/l
RT: 3.799 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

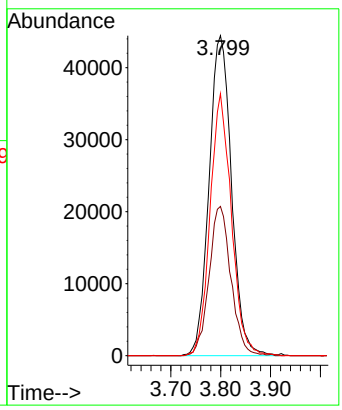
Tgt Ion:101 Resp: 13914

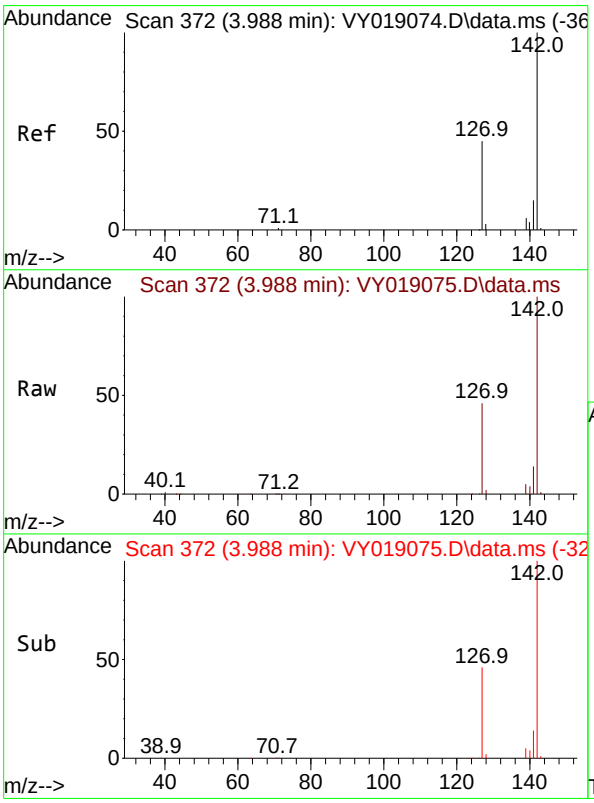
Ion	Ratio	Lower	Upper
101	100		
85	45.5	34.5	51.7
151	77.7	61.7	92.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

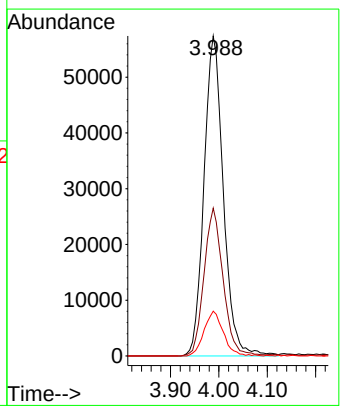


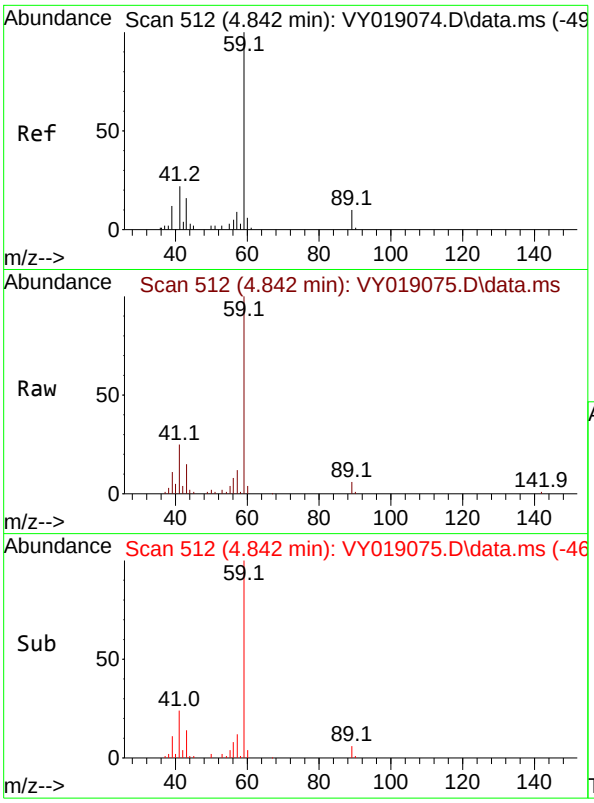


#10
Methyl Iodide
Concen: 107.193 ug/l
RT: 3.988 min Scan# 372
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:142 Resp: 159310

Ion	Ratio	Lower	Upper
142	100		
127	45.7	32.8	49.2
141	14.0	11.4	17.2

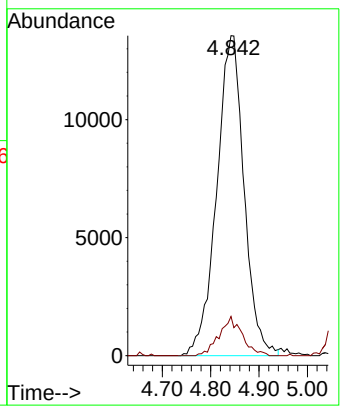




#11
Tert butyl alcohol
Concen: 491.855 ug/l
RT: 4.842 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 59 Resp: 5329

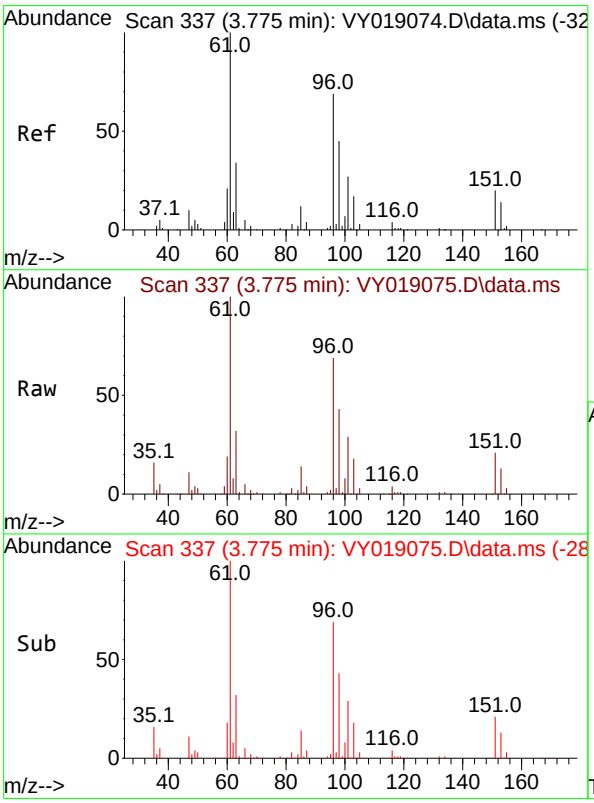
Ion	Ratio	Lower	Upper
59	100		
57	10.3	3.0	4.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

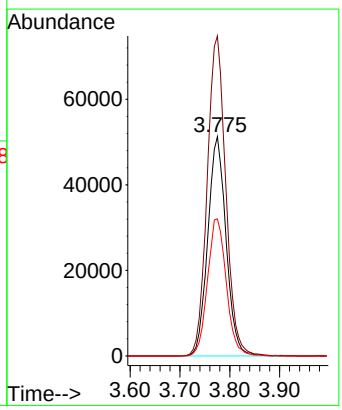
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

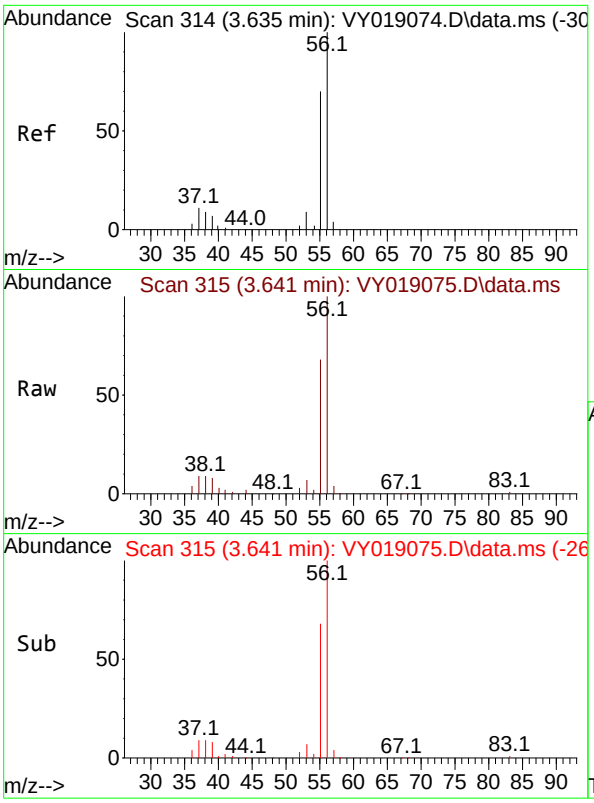


#12
1,1-Dichloroethene
Concen: 95.022 ug/l
RT: 3.775 min Scan# 337
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 96 Resp: 130899

Ion	Ratio	Lower	Upper
96	100		
61	145.9	114.6	171.8
98	62.5	50.8	76.2

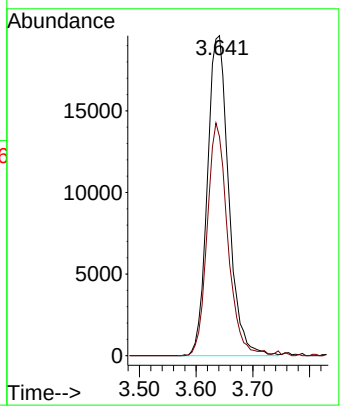




#13
Acrolein
Concen: 512.223 ug/l
RT: 3.641 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 56 Resp: 5110

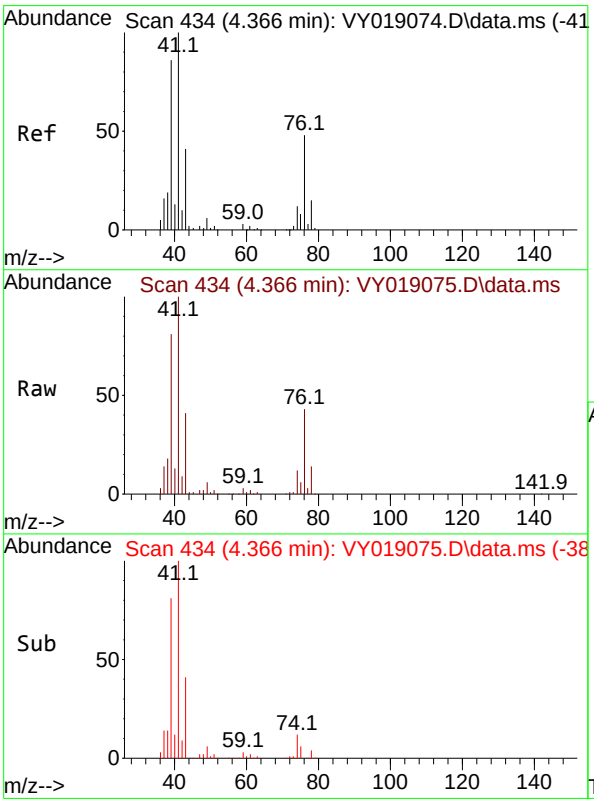
Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.7	83.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

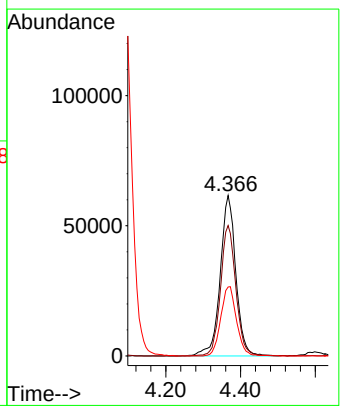
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

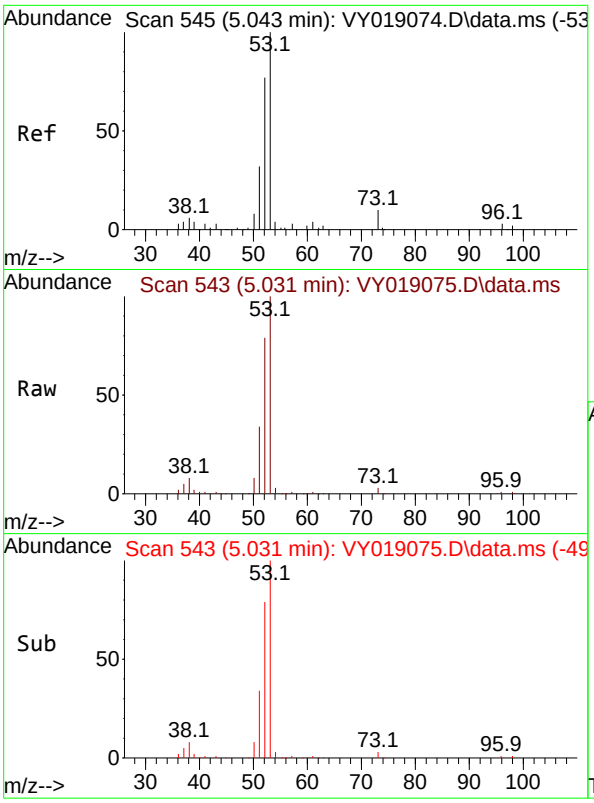


#14
Allyl chloride
Concen: 97.830 ug/l
RT: 4.366 min Scan# 434
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 41 Resp: 179178

Ion	Ratio	Lower	Upper
41	100		
39	79.7	58.3	87.5
76	43.4	39.0	58.6

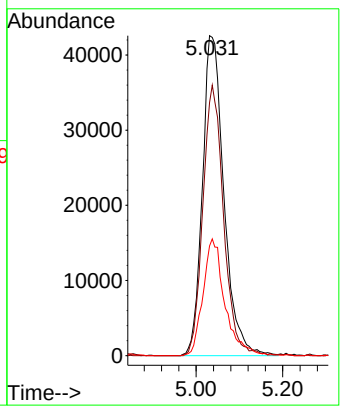




#15
Acrylonitrile
Concen: 488.188 ug/l
RT: 5.031 min Scan# 54
Delta R.T. -0.012 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 53 Resp: 14705

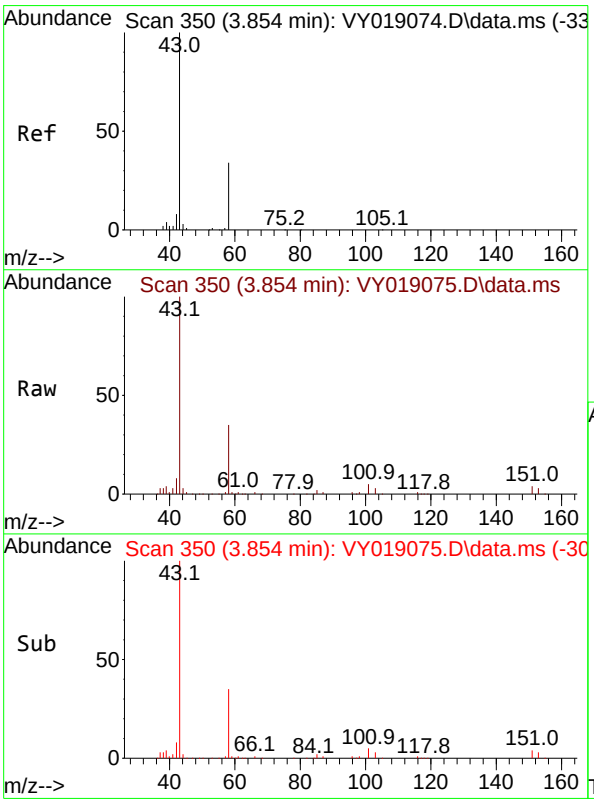
Ion	Ratio	Lower	Upper
53	100		
52	81.2	64.7	97.1
51	37.0	28.4	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

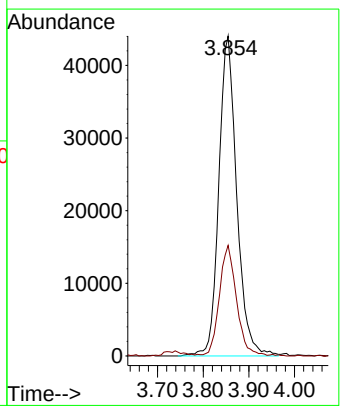
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

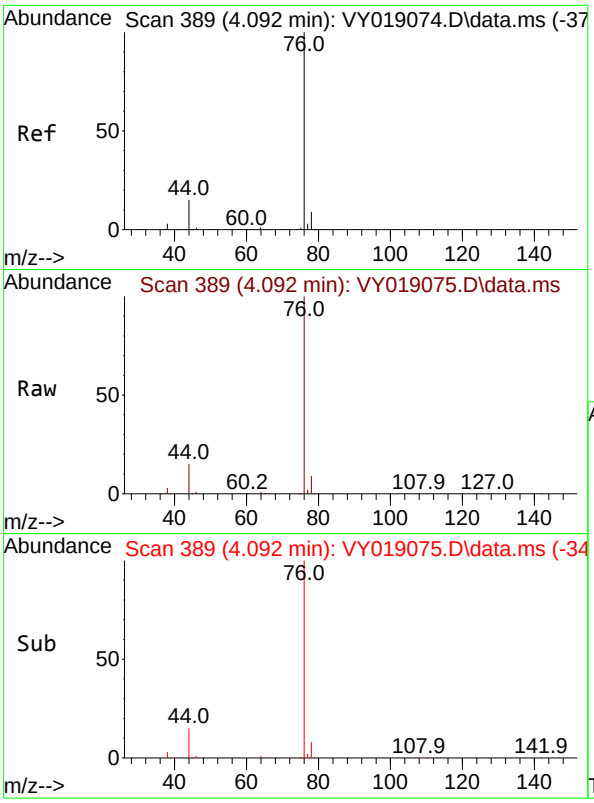


#16
Acetone
Concen: 467.654 ug/l
RT: 3.854 min Scan# 350
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 43 Resp: 120062

Ion	Ratio	Lower	Upper
43	100		
58	34.2	31.7	47.5

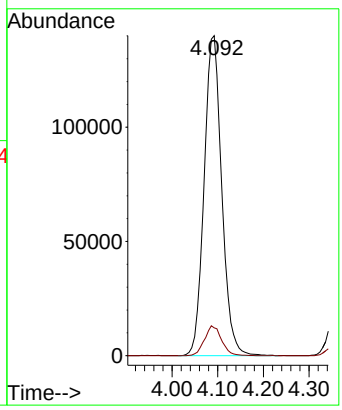




#17
Carbon Disulfide
Concen: 96.530 ug/l
RT: 4.092 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 76 Resp: 37506

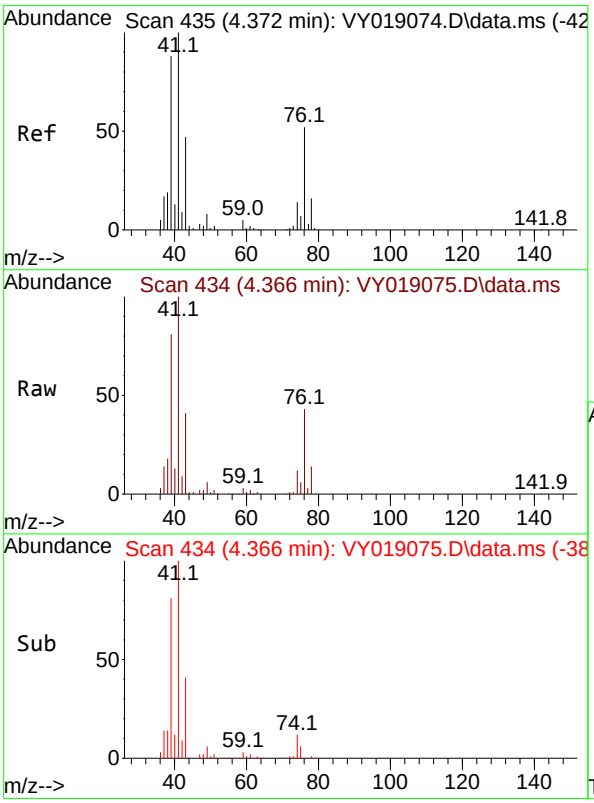
Ion	Ratio	Lower	Upper
76	100		
78	8.7	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

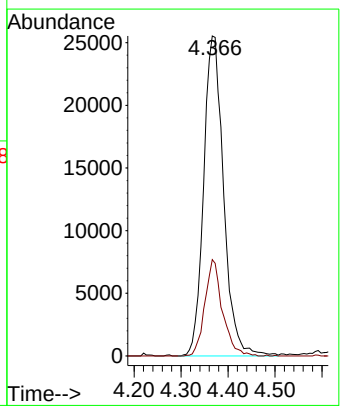
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

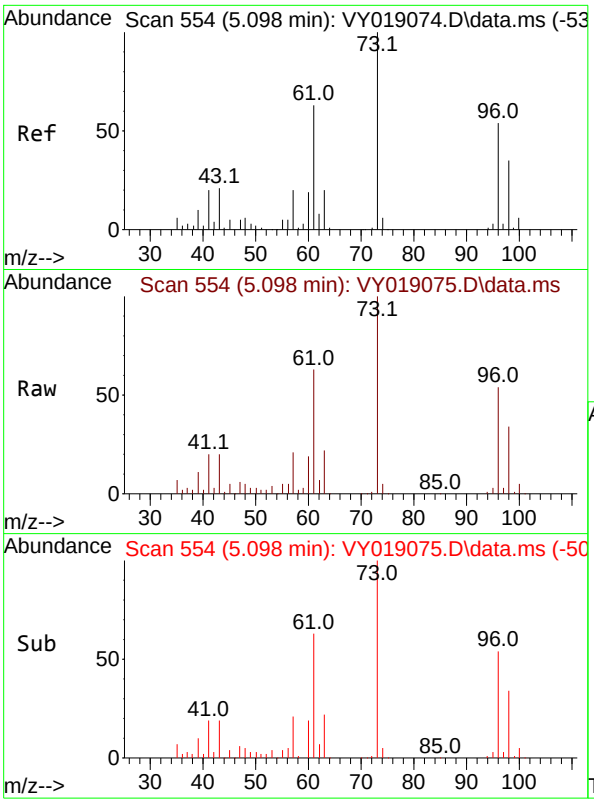


#18
Methyl Acetate
Concen: 95.544 ug/l
RT: 4.366 min Scan# 434
Delta R.T. -0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 43 Resp: 75283

Ion	Ratio	Lower	Upper
43	100		
74	26.6	23.3	34.9

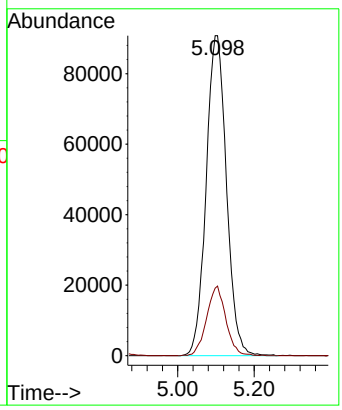




#19
Methyl tert-butyl Ether
Concen: 100.185 ug/l
RT: 5.098 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 73 Resp: 33459

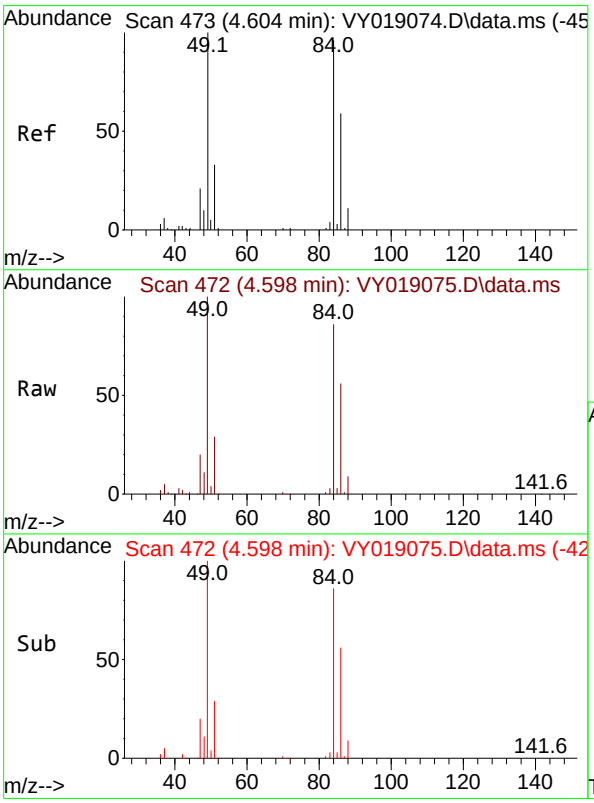
Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

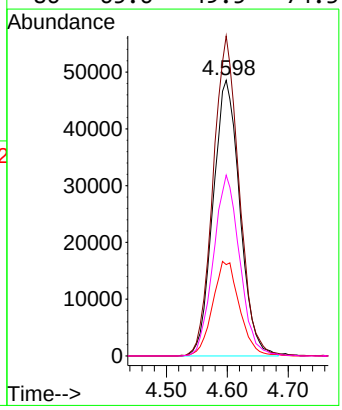
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

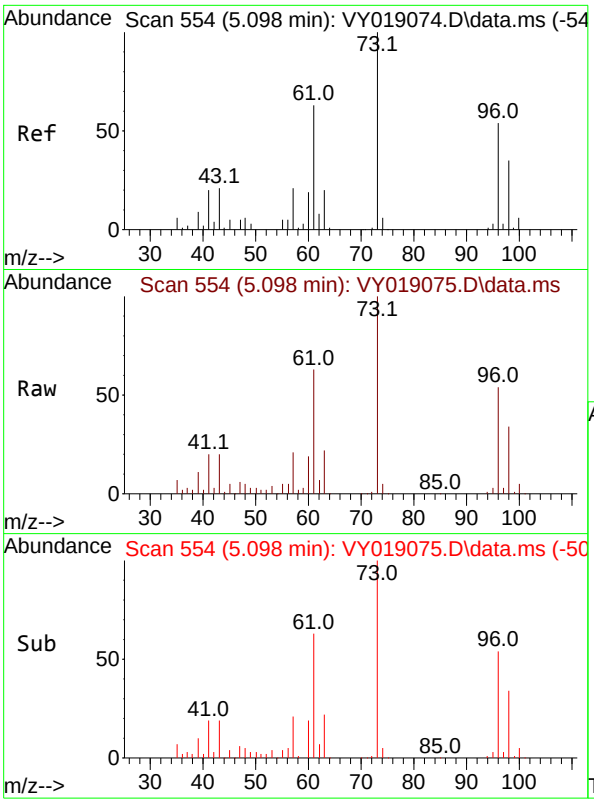


#20
Methylene Chloride
Concen: 103.679 ug/l
RT: 4.598 min Scan# 472
Delta R.T. -0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 84 Resp: 147802

Ion	Ratio	Lower	Upper
84	100		
49	116.1	84.4	126.6
51	33.2	26.0	39.0
86	65.6	49.5	74.3

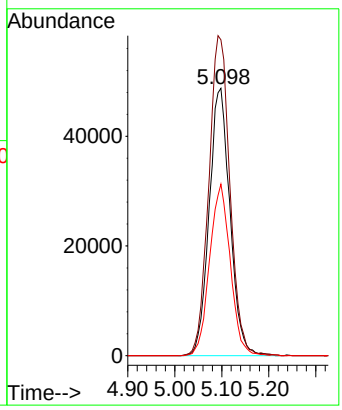




#21
trans-1,2-Dichloroethene
Concen: 97.452 ug/l
RT: 5.098 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 96 Resp: 14998

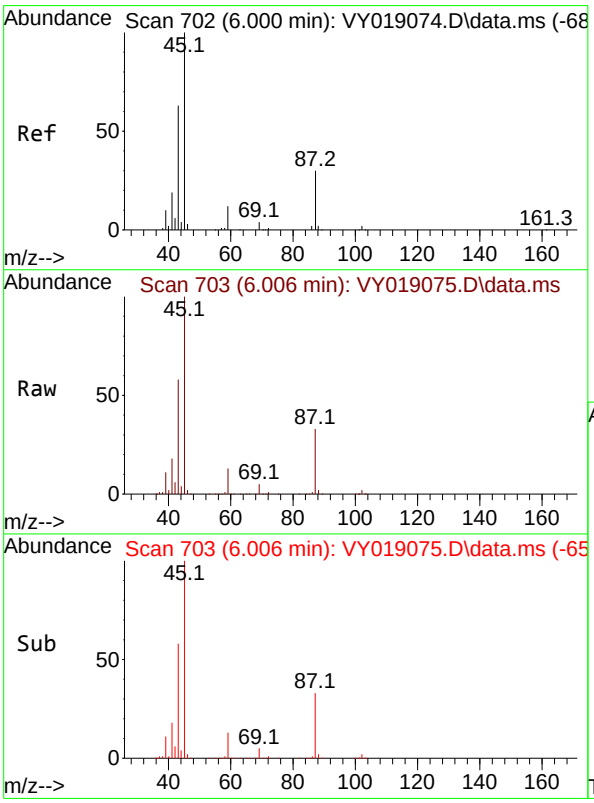
Ion	Ratio	Lower	Upper
96	100		
61	118.1	97.5	146.3
98	64.1	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

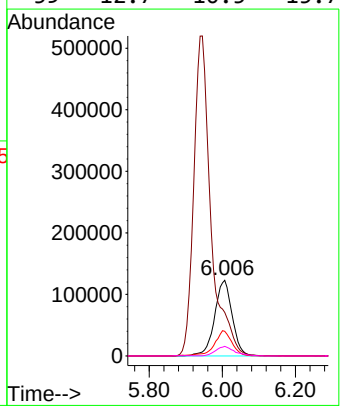
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

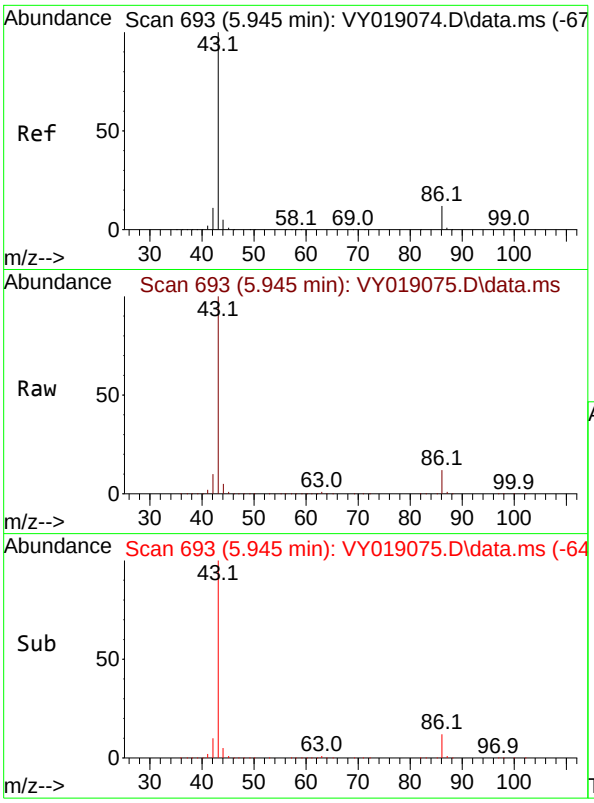


#22
Diisopropyl ether
Concen: 98.170 ug/l
RT: 6.006 min Scan# 703
Delta R.T. 0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 45 Resp: 411609

Ion	Ratio	Lower	Upper
45	100		
43	57.4	42.2	63.2
87	32.7	25.0	37.6
59	12.7	10.5	15.7





#23
Vinyl Acetate
Concen: 511.986 ug/l
RT: 5.945 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

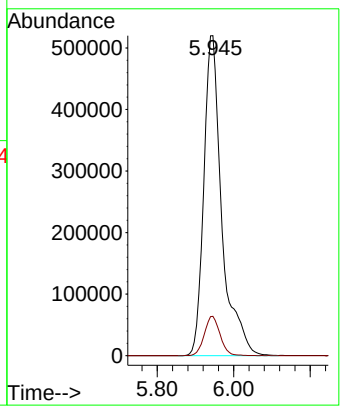
Tgt Ion: 43 Resp: 169953

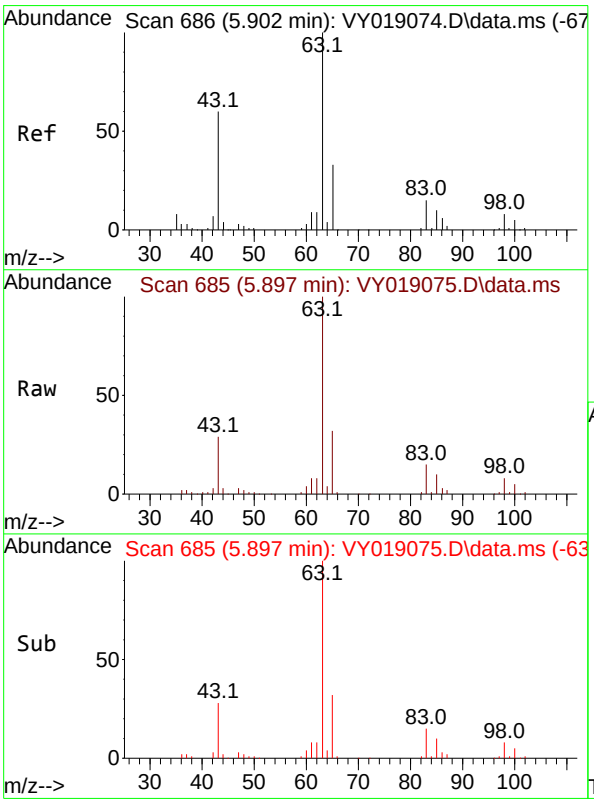
Ion	Ratio	Lower	Upper
43	100		
86	12.3	10.6	16.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

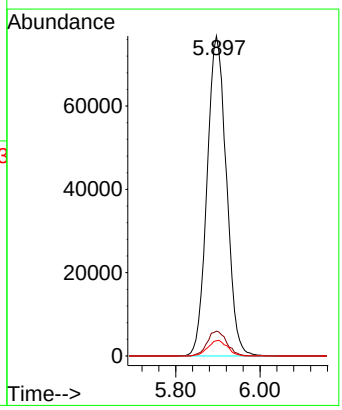


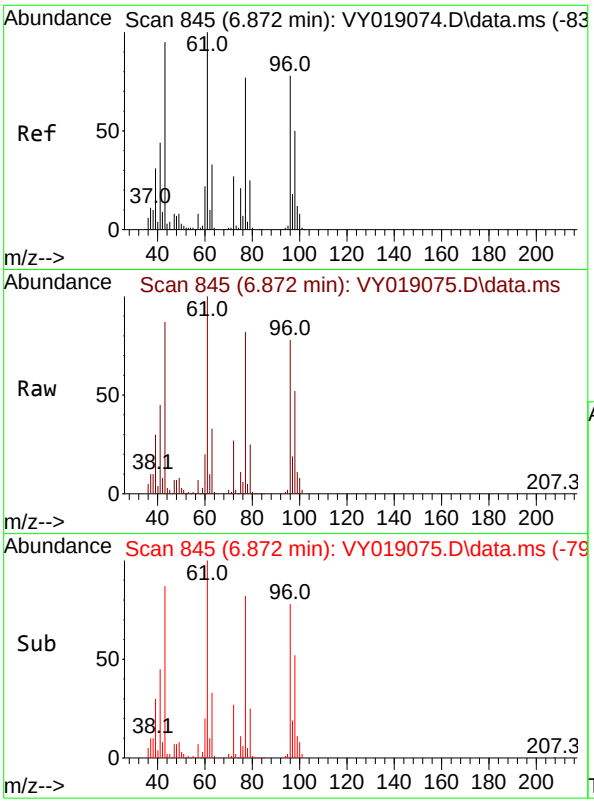


#24
1,1-Dichloroethane
Concen: 95.377 ug/l
RT: 5.897 min Scan# 685
Delta R.T. -0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 63 Resp: 244557

Ion	Ratio	Lower	Upper
63	100		
98	7.8	4.0	12.2
100	4.7	2.6	8.0





#25
2-Butanone
Concen: 479.954 ug/l
RT: 6.872 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

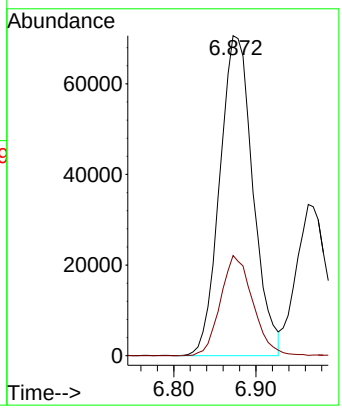
Tgt Ion: 43 Resp: 19844

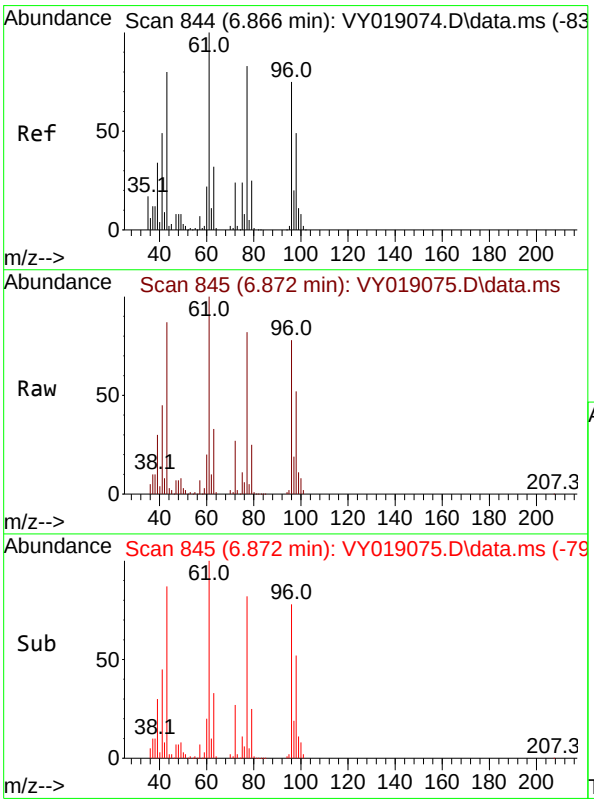
Ion	Ratio	Lower	Upper
43	100		
72	31.3	27.3	40.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

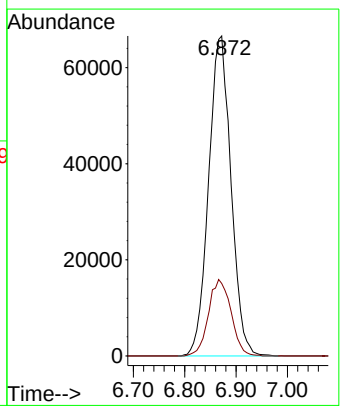


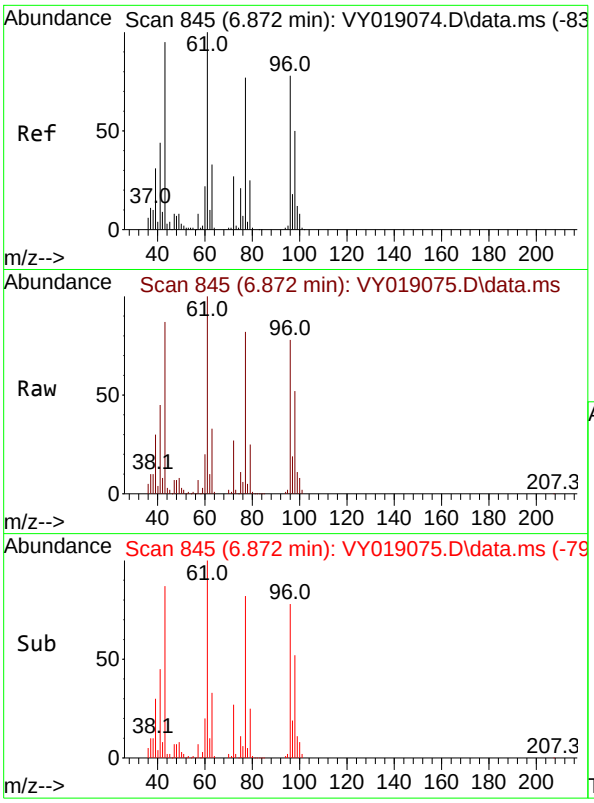


#26
2,2-Dichloropropane
Concen: 96.912 ug/l
RT: 6.872 min Scan# 845
Delta R.T. 0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 77 Resp: 201225

Ion	Ratio	Lower	Upper
77	100		
97	24.1	12.0	36.1





#27
cis-1,2-Dichloroethene
Concen: 97.497 ug/l
RT: 6.872 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

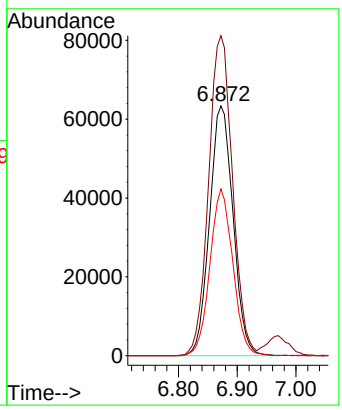
Tgt Ion: 96 Resp: 17658

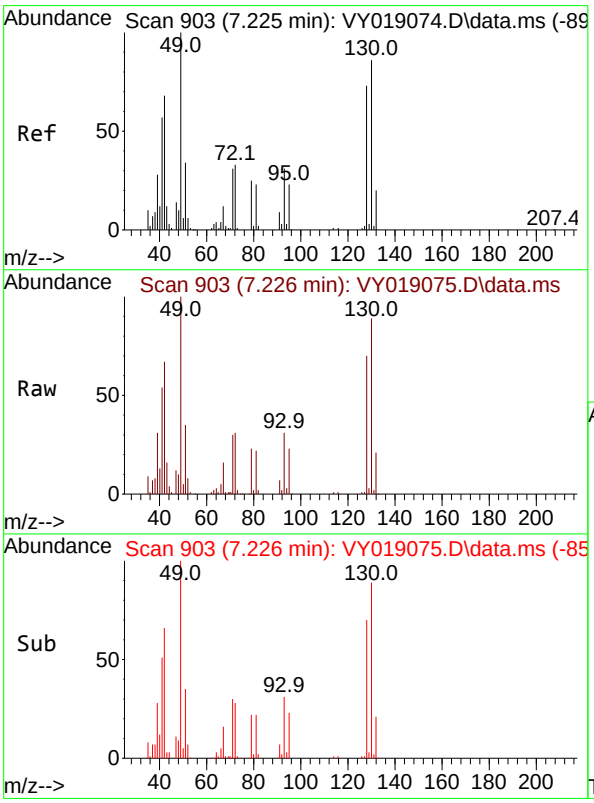
Ion	Ratio	Lower	Upper
96	100		
61	130.1	0.0	256.2
98	64.9	0.0	130.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

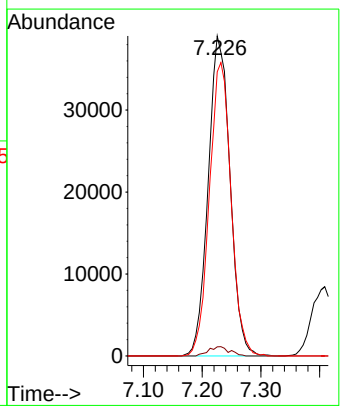


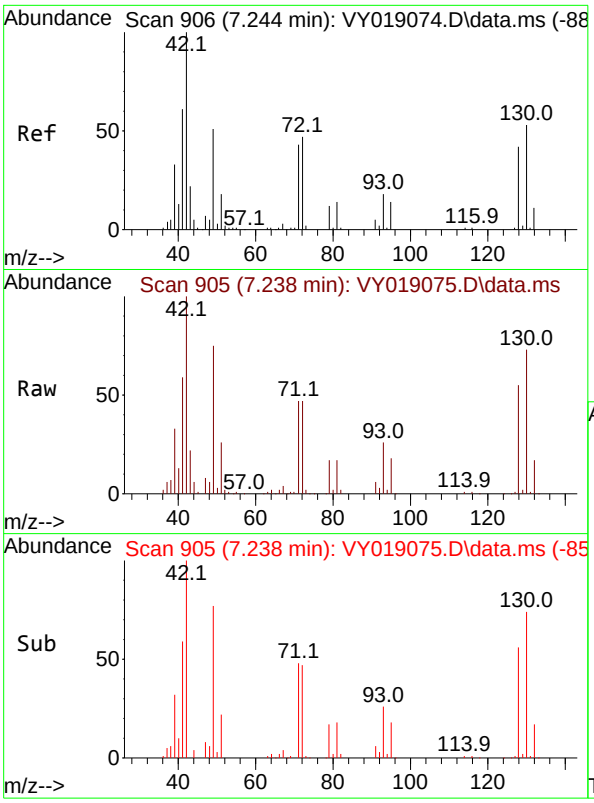


#28
Bromochloromethane
Concen: 93.756 ug/l
RT: 7.226 min Scan# 903
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 49 Resp: 100843

Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	4.6
130	90.8	72.7	109.1

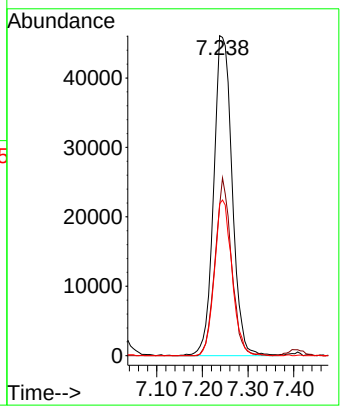




#29
Tetrahydrofuran
Concen: 486.837 ug/l
RT: 7.238 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 42 Resp: 12939

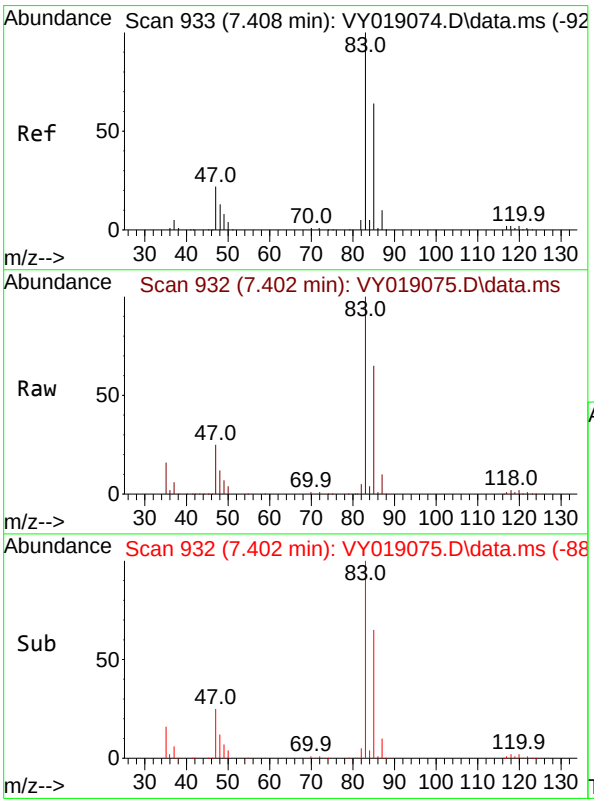
Ion	Ratio	Lower	Upper
42	100		
72	49.4	43.0	64.4
71	46.6	40.8	61.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

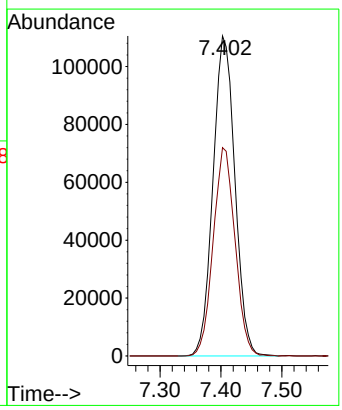
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

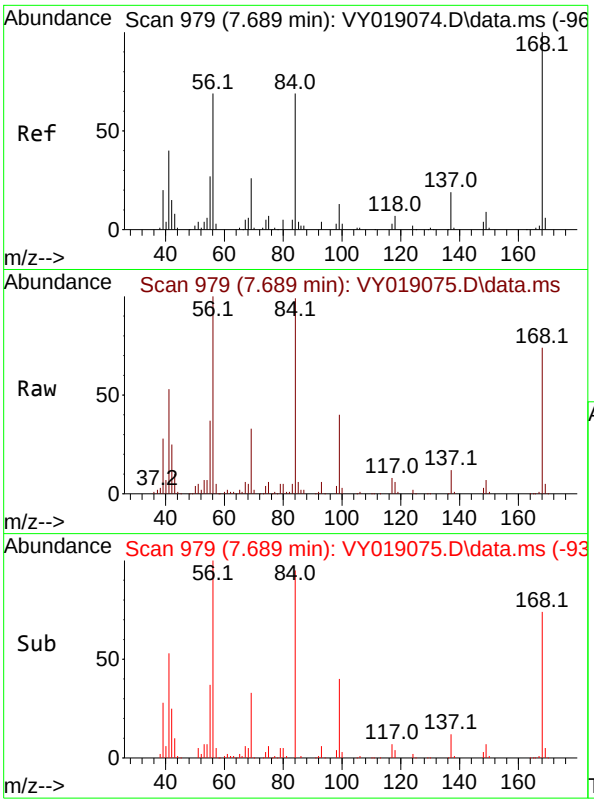


#30
Chloroform
Concen: 96.545 ug/l
RT: 7.402 min Scan# 932
Delta R.T. -0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 83 Resp: 275844

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.2	78.4

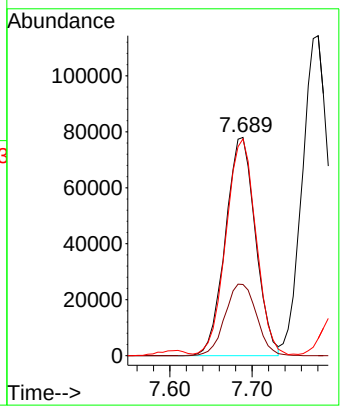




#31
Cyclohexane
Concen: 105.228 ug/l
RT: 7.689 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 56 Resp: 19901

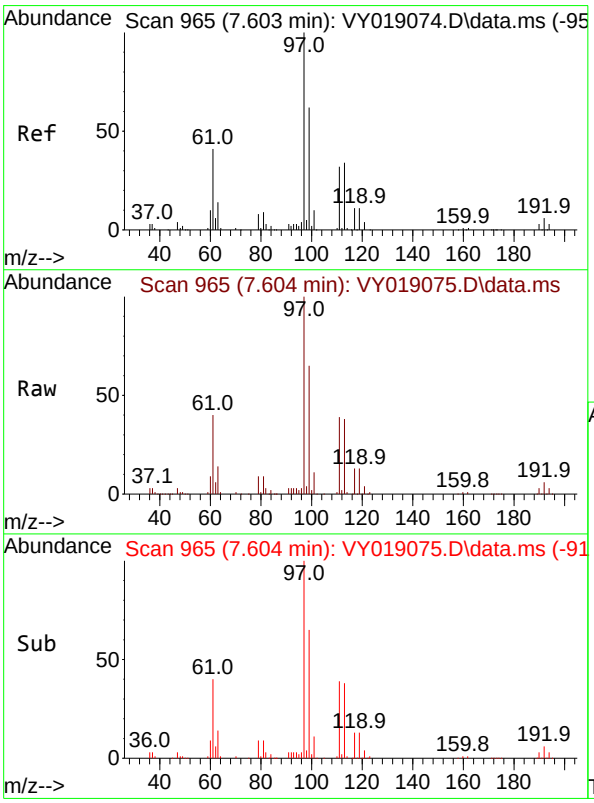
Ion	Ratio	Lower	Upper
56	100		
69	32.6	28.7	43.1
84	96.8	77.7	116.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

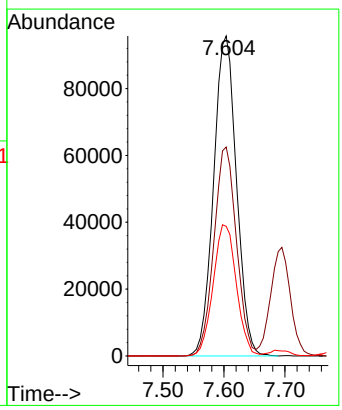
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

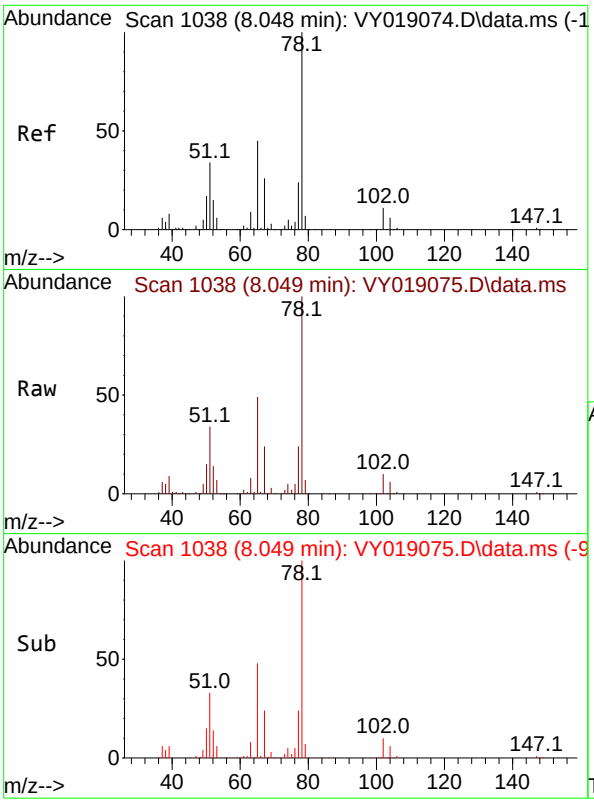


#32
1,1,1-Trichloroethane
Concen: 99.578 ug/l
RT: 7.604 min Scan# 965
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 97 Resp: 250033

Ion	Ratio	Lower	Upper
97	100		
99	64.5	50.3	75.5
61	41.6	32.6	48.8

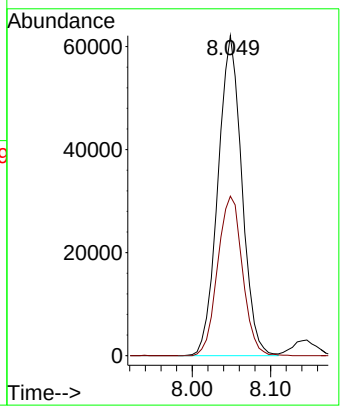




#33
1,2-Dichloroethane-d4
Concen: 95.166 ug/l
RT: 8.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 65 Resp: 13174

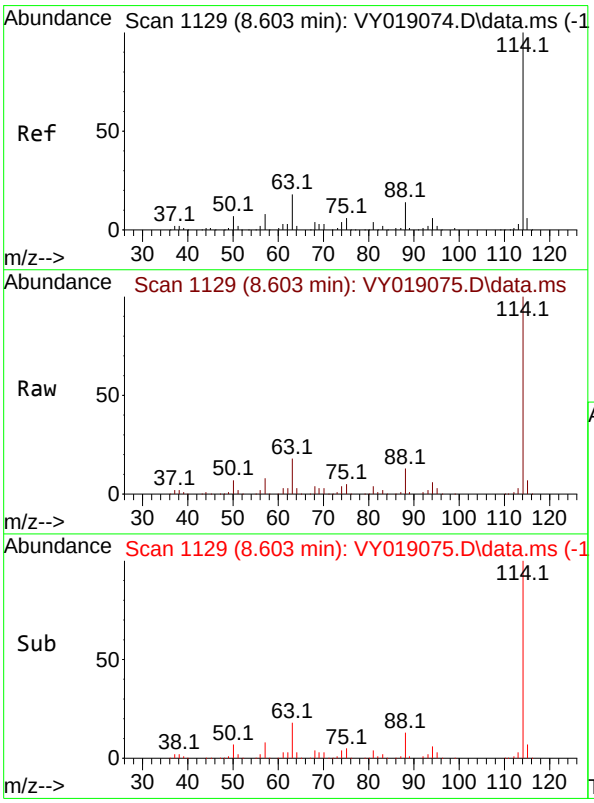
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	109.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

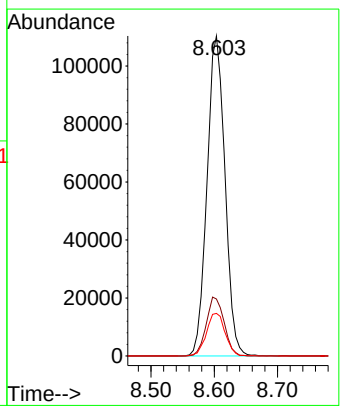
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

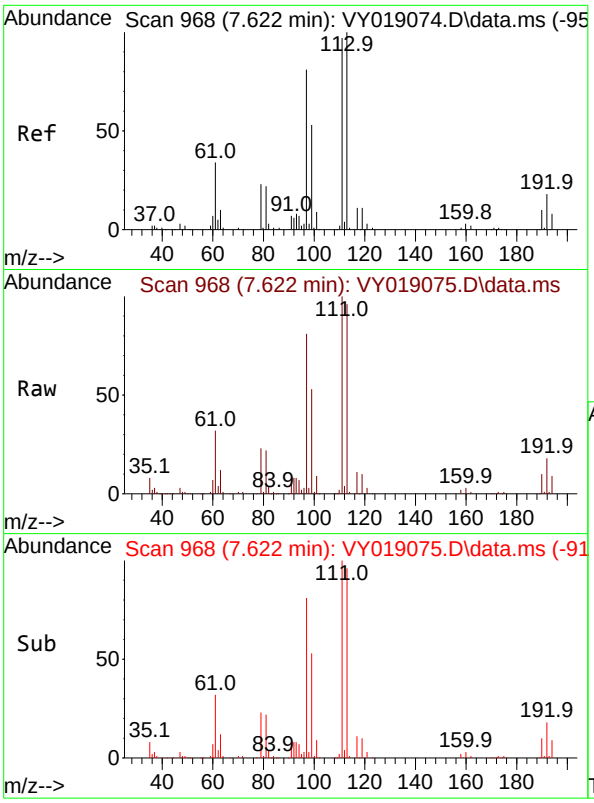


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.603 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:114 Resp: 217485

Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	35.0
88	13.3	0.0	27.2





#35
Dibromofluoromethane
Concen: 97.753 ug/l
RT: 7.622 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

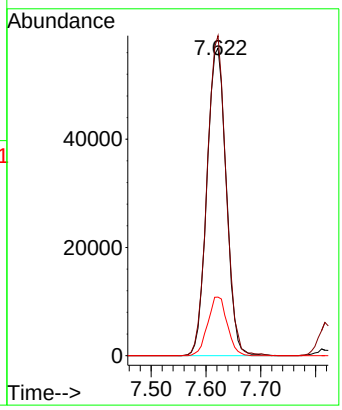
Tgt Ion:113 Resp: 13900

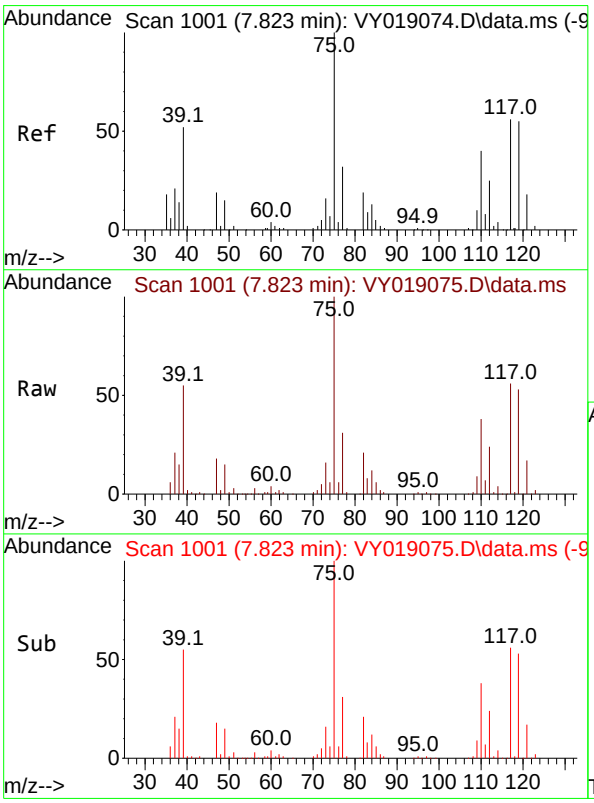
Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.2	123.4
192	19.2	15.9	23.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

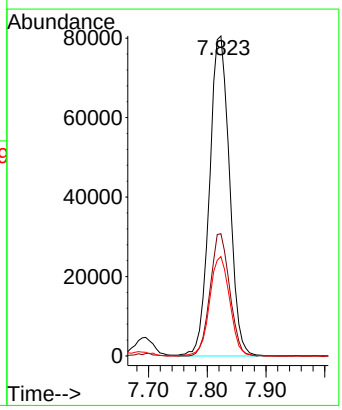


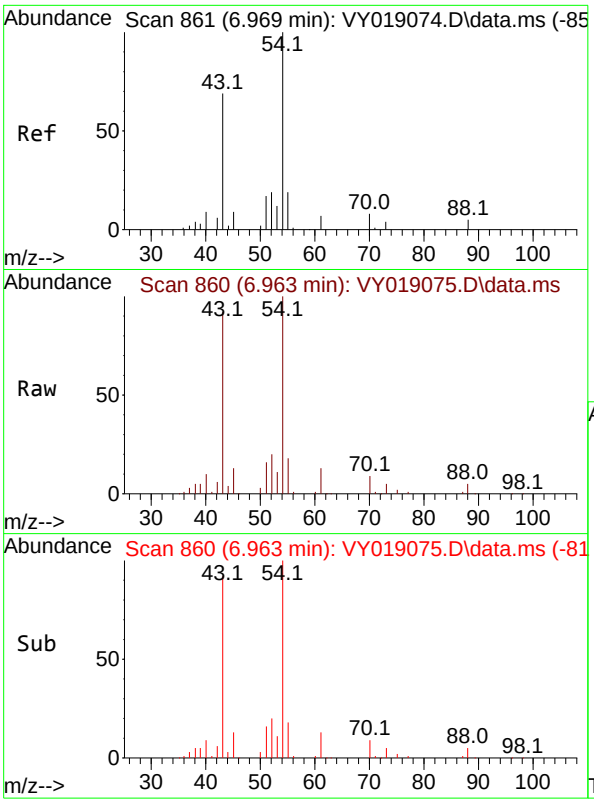


#36
1,1-Dichloropropene
Concen: 97.430 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 75 Resp: 190254

Ion	Ratio	Lower	Upper
75	100		
110	37.3	19.0	57.0
77	31.3	25.3	37.9





#37
Ethyl Acetate
Concen: 105.089 ug/l
RT: 6.963 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

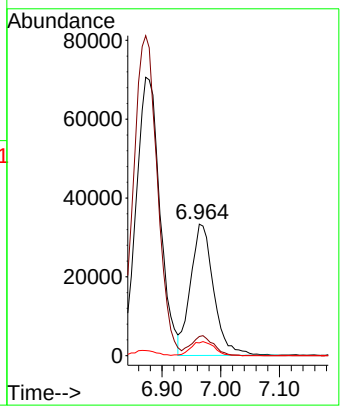
Tgt Ion: 43 Resp: 9091

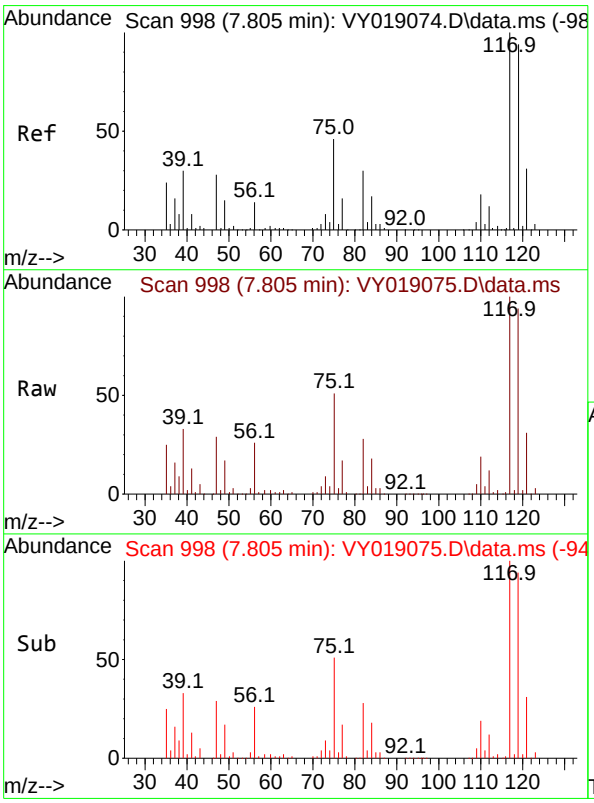
Ion	Ratio	Lower	Upper
43	100		
61	14.9	12.6	19.0
70	10.9	7.8	11.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

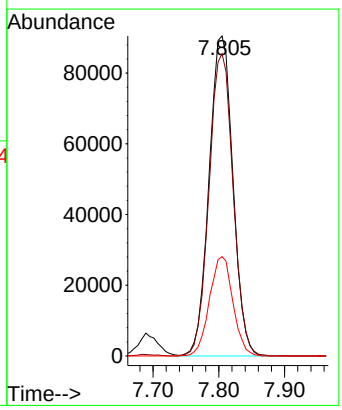


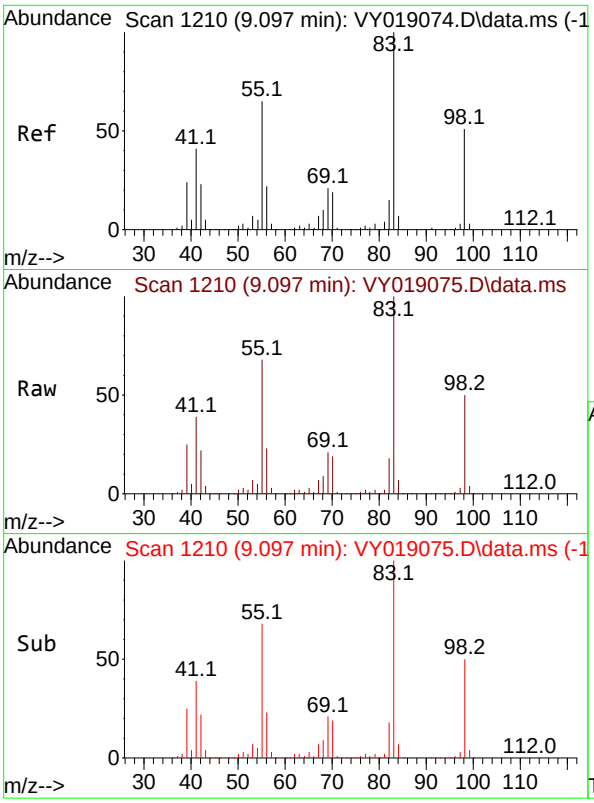


#38
Carbon Tetrachloride
Concen: 101.092 ug/l
RT: 7.805 min Scan# 998
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:117 Resp: 228772

Ion	Ratio	Lower	Upper
117	100		
119	94.4	75.8	113.6
121	31.1	24.0	36.0

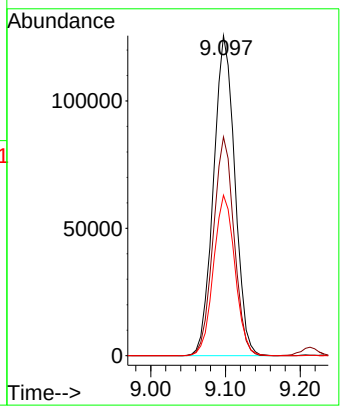




#39
Methylcyclohexane
Concen: 99.473 ug/l
RT: 9.097 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 83 Resp: 24926

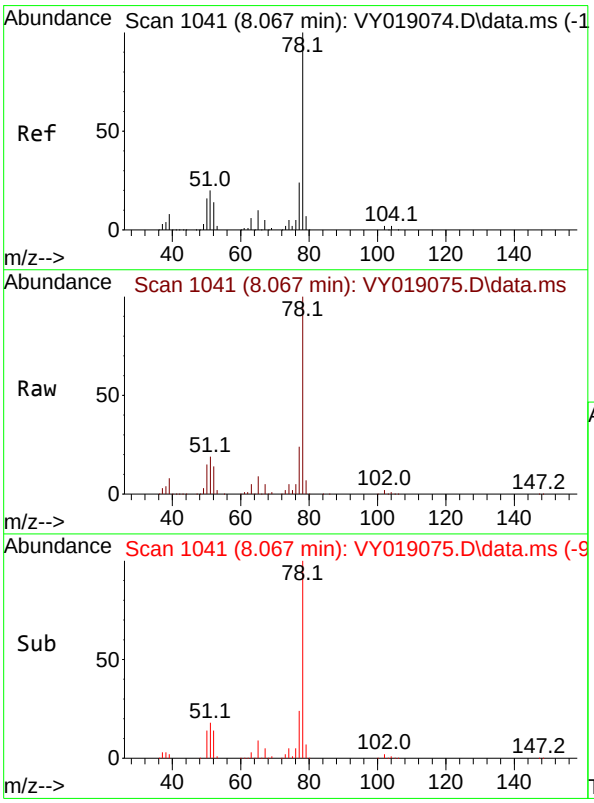
Ion	Ratio	Lower	Upper
83	100		
55	68.4	51.5	77.3
98	50.2	40.5	60.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

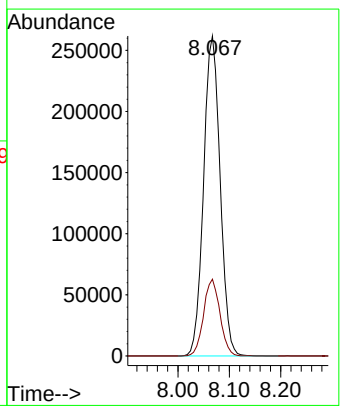
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

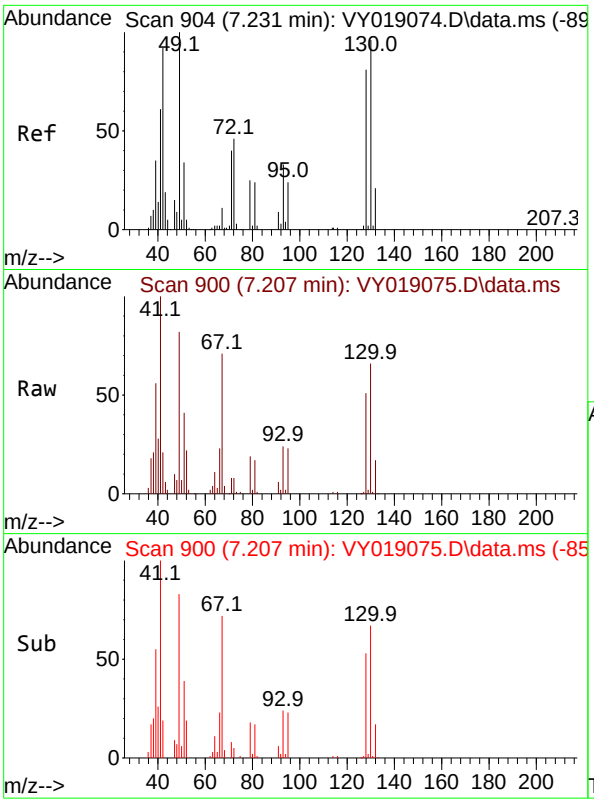


#40
Benzene
Concen: 97.705 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 78 Resp: 585143

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.5	29.3

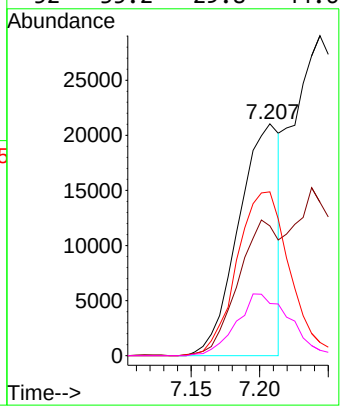




#41
Methacrylonitrile
Concen: 97.936 ug/l
RT: 7.207 min Scan# 9
Delta R.T. -0.024 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 41 Resp: 4381

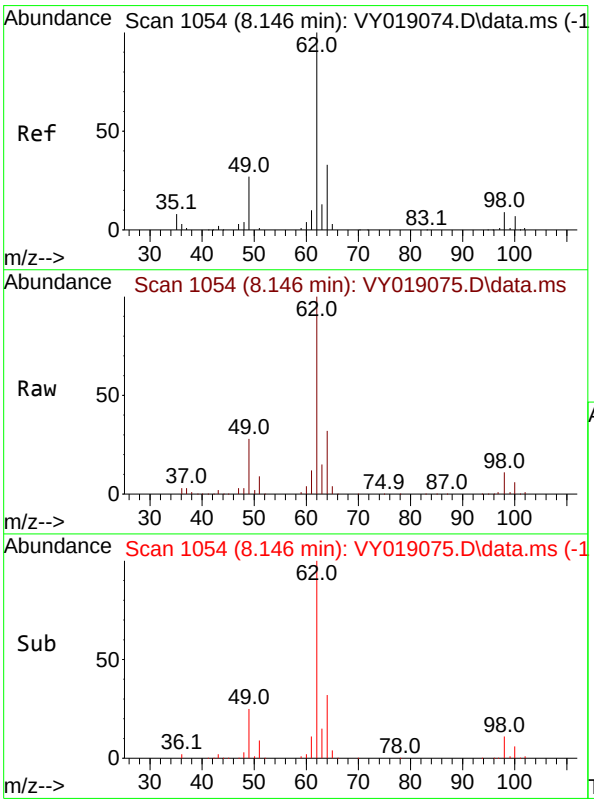
Ion	Ratio	Lower	Upper
41	100		
39	57.1	48.0	72.0
67	91.4	75.1	112.7
52	35.2	29.8	44.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

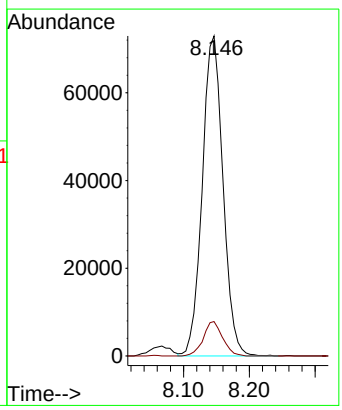
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

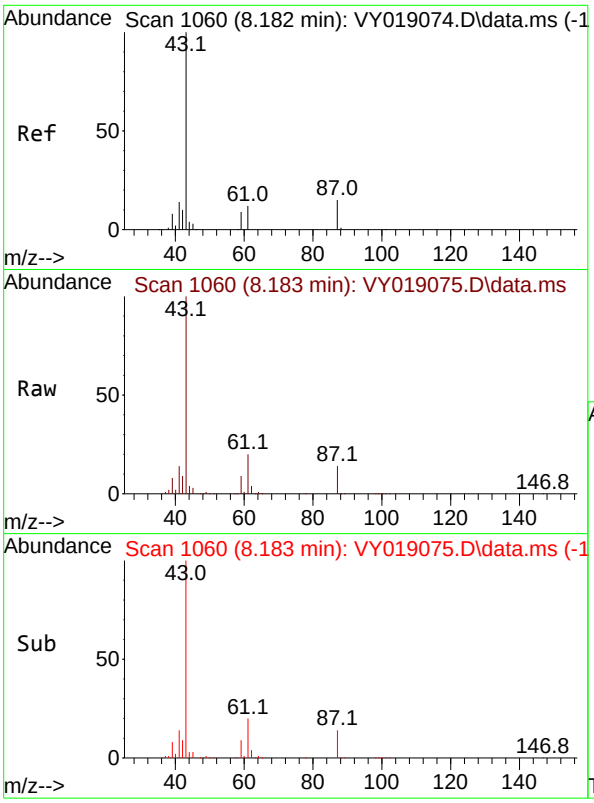


#42
1,2-Dichloroethane
Concen: 98.832 ug/l
RT: 8.146 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 62 Resp: 159836

Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	22.0





#43
Isopropyl Acetate
Concen: 101.475 ug/l
RT: 8.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

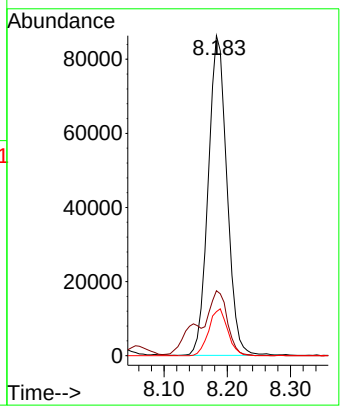
Tgt Ion: 43 Resp: 17754

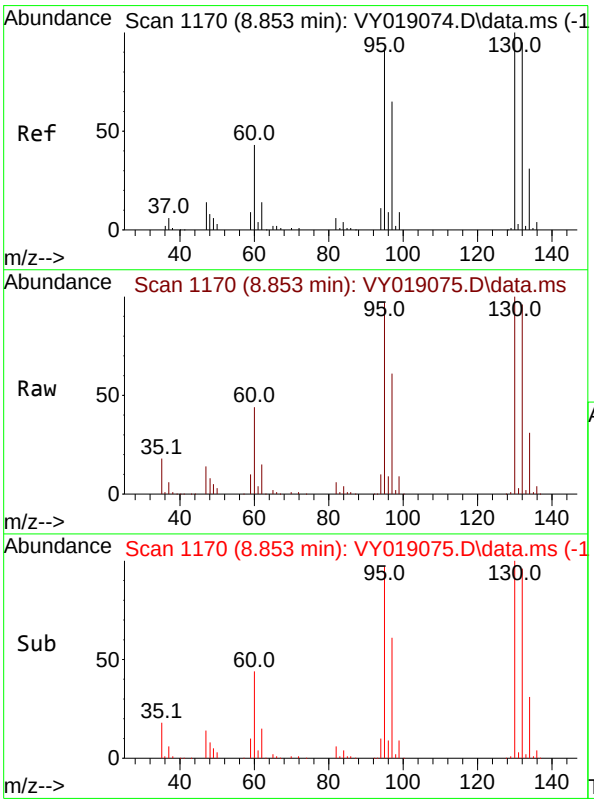
Ion	Ratio	Lower	Upper
43	100		
61	20.7	27.9	41.9#
87	14.8	13.1	19.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

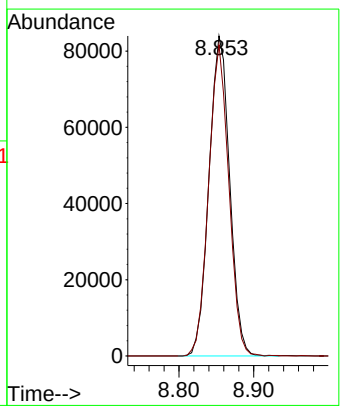


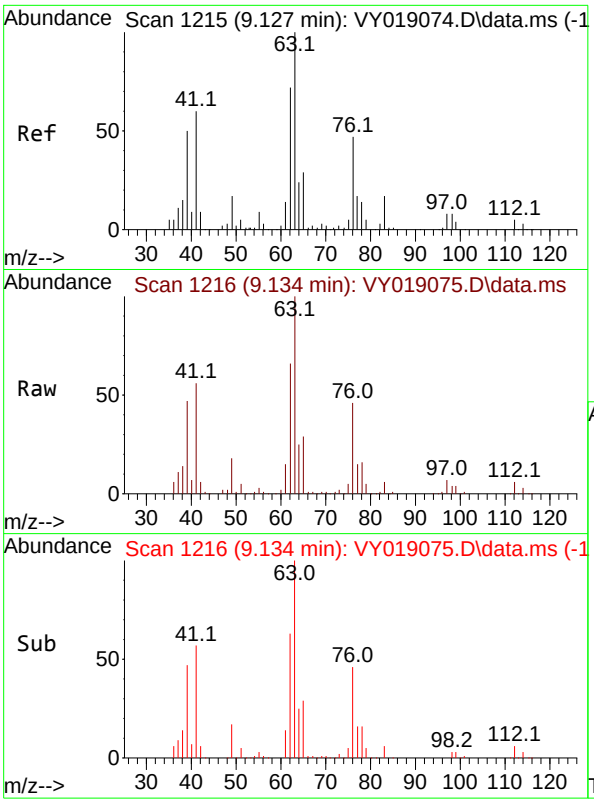


#44
Trichloroethene
Concen: 96.814 ug/l
RT: 8.853 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:130 Resp: 161783

Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	188.0

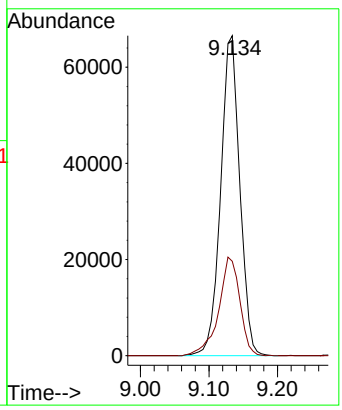




#45
1,2-Dichloropropane
Concen: 96.344 ug/l
RT: 9.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 63 Resp: 12855

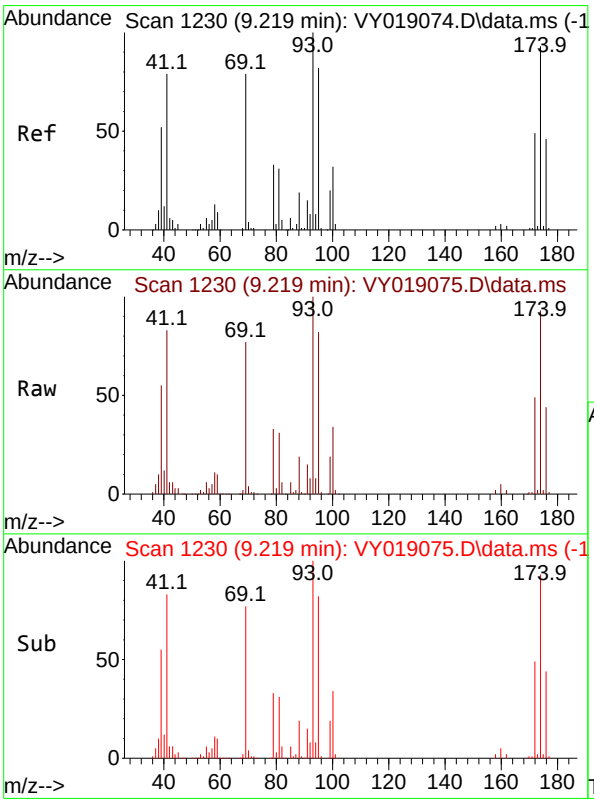
Ion	Ratio	Lower	Upper
63	100		
65	29.5	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

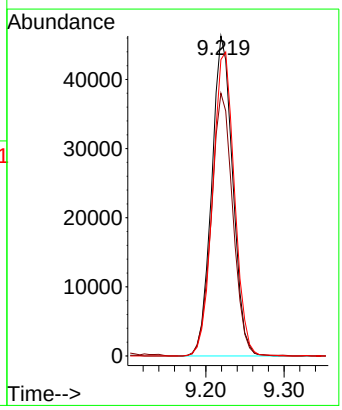
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

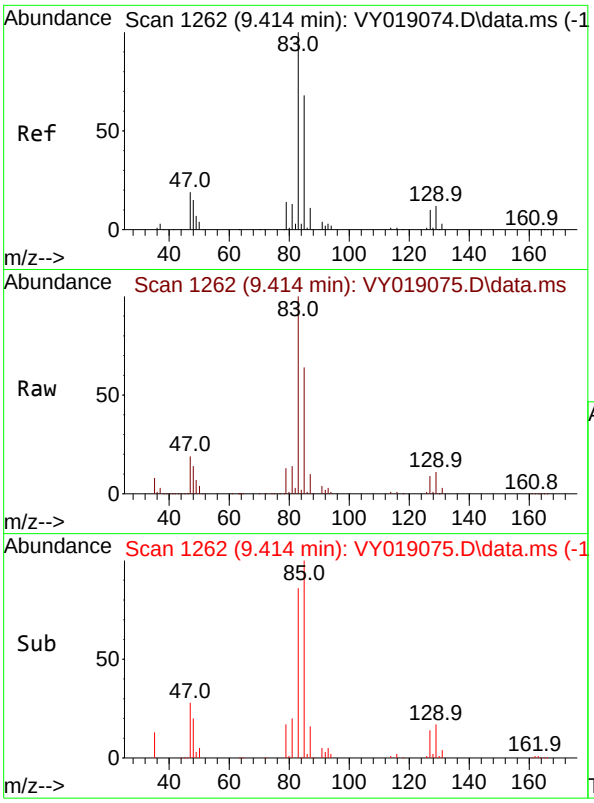


#46
Dibromomethane
Concen: 99.856 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 93 Resp: 86420

Ion	Ratio	Lower	Upper
93	100		
95	83.9	66.2	99.4
174	98.2	80.9	121.3

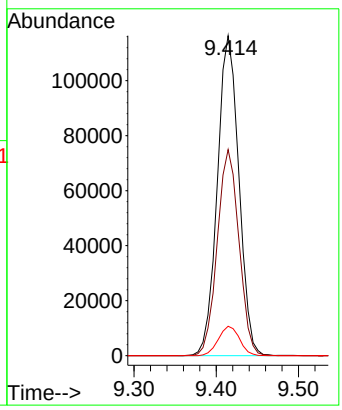




#47
Bromodichloromethane
Concen: 99.708 ug/l
RT: 9.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 83 Resp: 21170

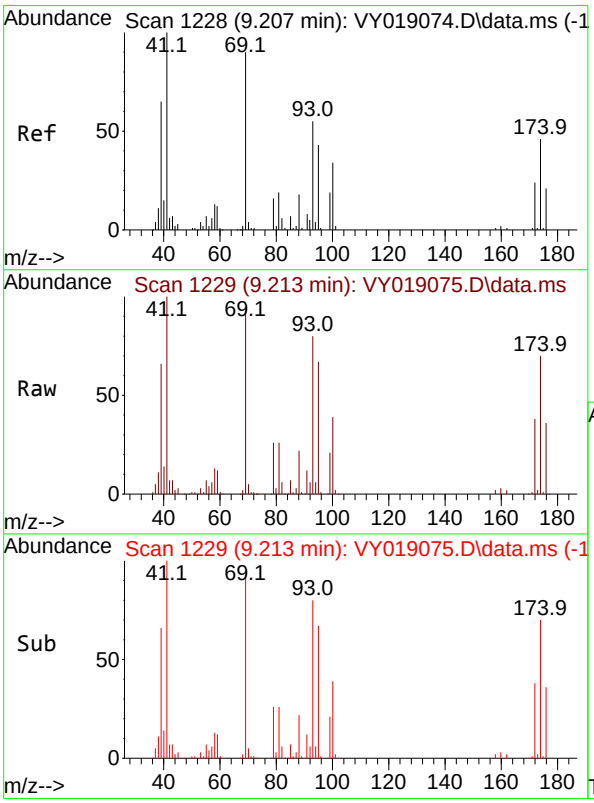
Ion	Ratio	Lower	Upper
83	100		
85	64.4	50.1	75.1
127	9.2	7.4	11.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

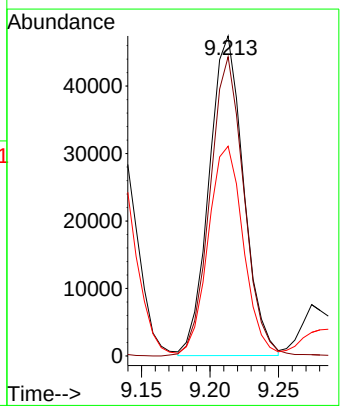
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

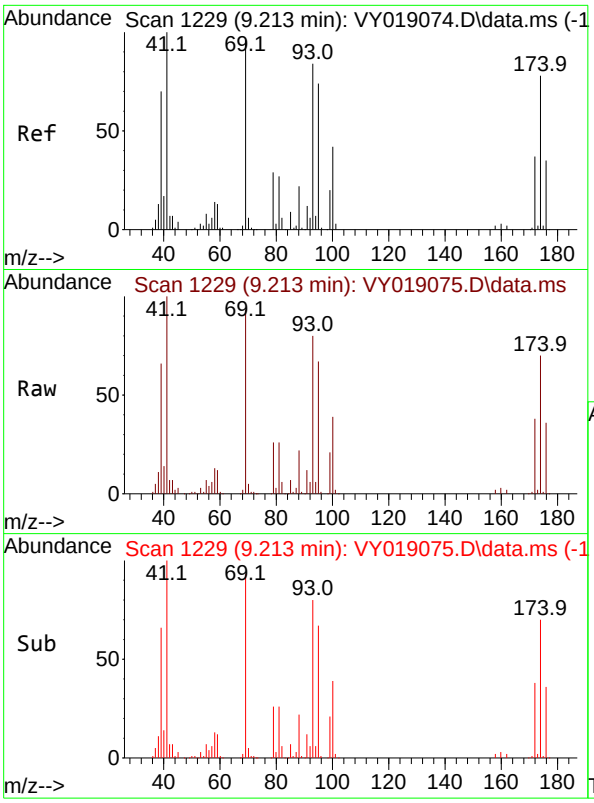


#48
Methyl methacrylate
Concen: 106.452 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 41 Resp: 83008

Ion	Ratio	Lower	Upper
41	100		
69	92.6	84.1	126.1
39	66.5	43.6	65.4#

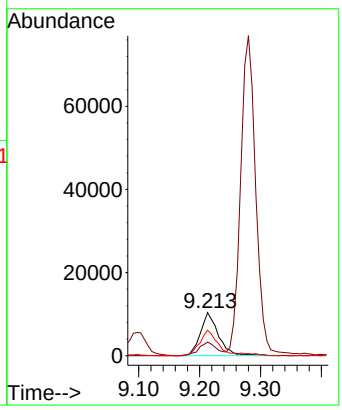




#49
1,4-Dioxane
Concen: 2037.919 ug/l
RT: 9.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 88 Resp: 2136

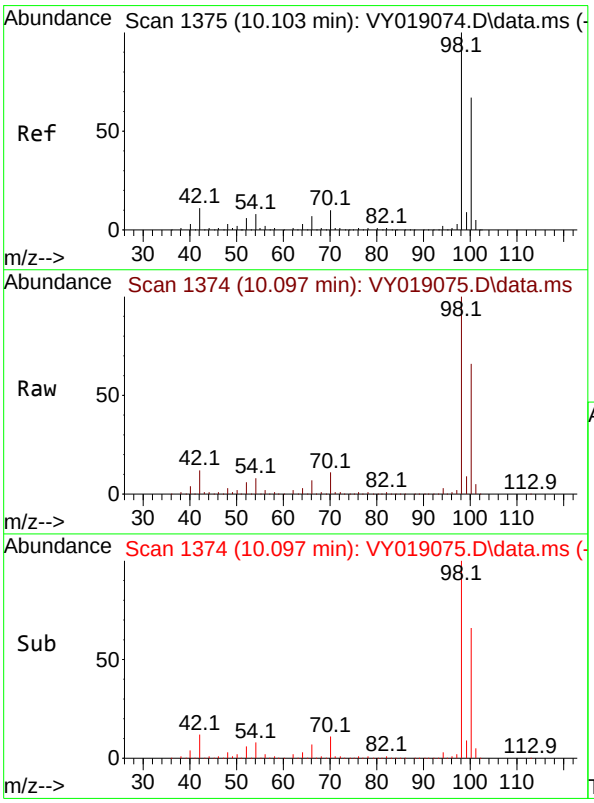
Ion	Ratio	Lower	Upper
88	100		
43	31.3	0.0	0.0
58	57.9	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

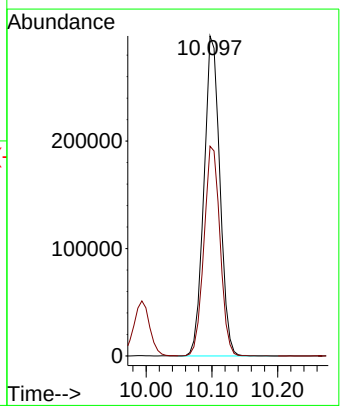
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

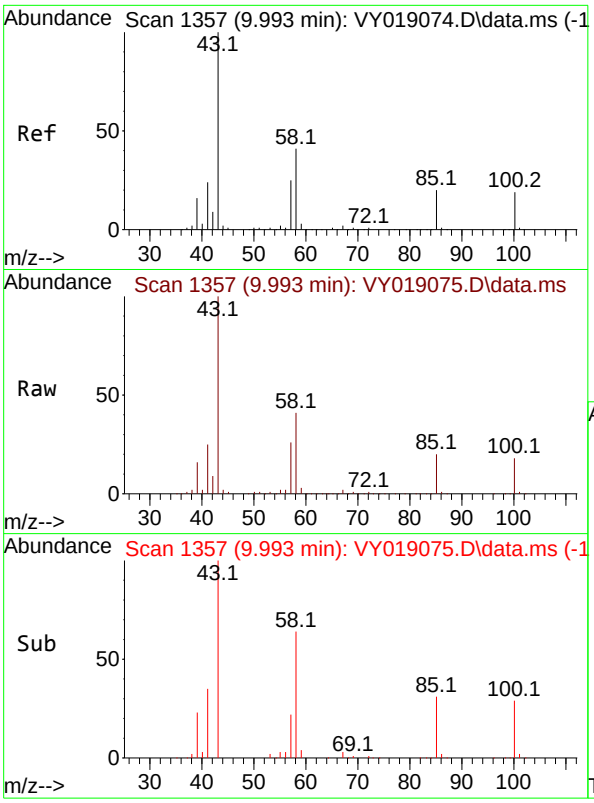


#50
Toluene-d8
Concen: 97.943 ug/l
RT: 10.097 min Scan# 1374
Delta R.T. -0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 98 Resp: 501217

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.0	78.0

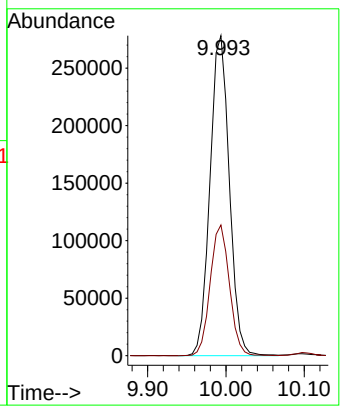




#51
4-Methyl-2-Pentanone
Concen: 513.768 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 43 Resp: 47711

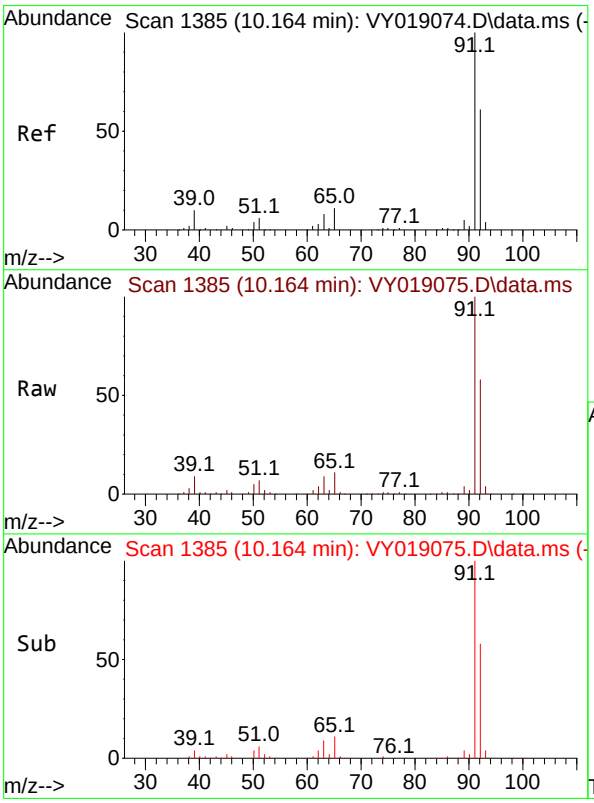
Ion	Ratio	Lower	Upper
43	100		
58	40.6	35.7	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

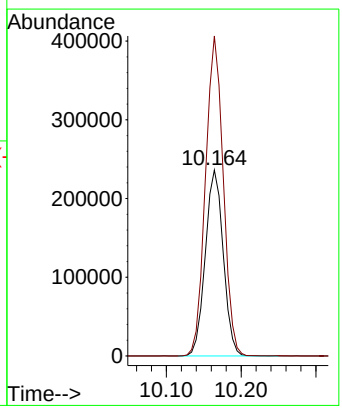
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

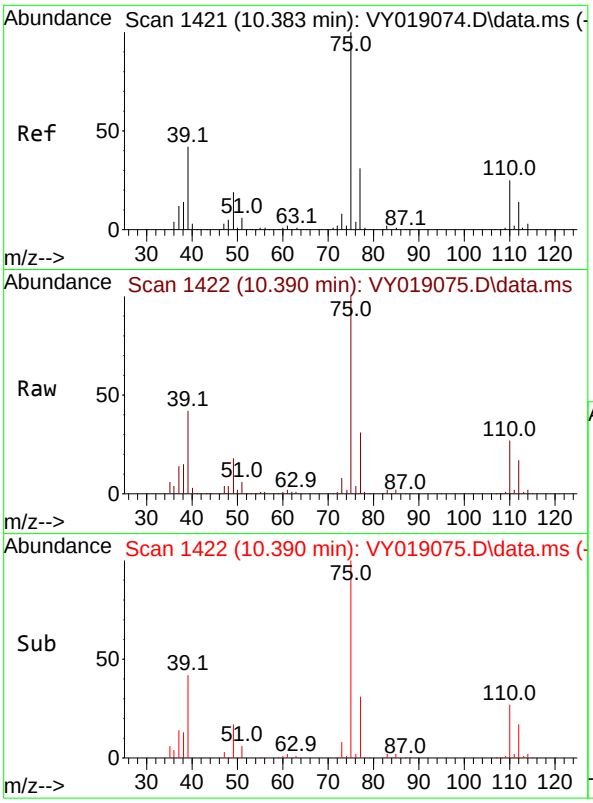


#52
Toluene
Concen: 100.206 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 92 Resp: 393934

Ion	Ratio	Lower	Upper
92	100		
91	170.5	139.0	208.6

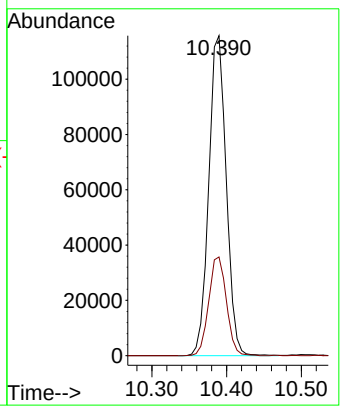




#53
t-1,3-Dichloropropene
Concen: 106.607 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 75 Resp: 18777

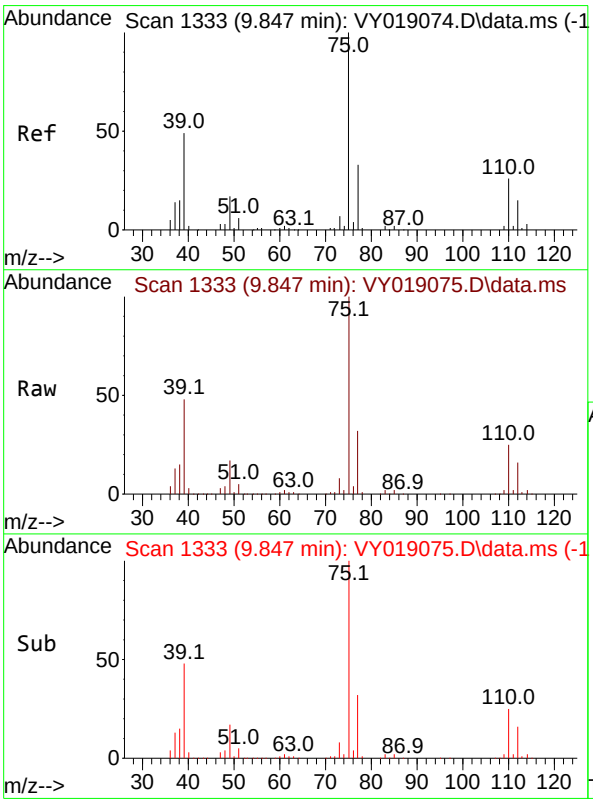
Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.1	36.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

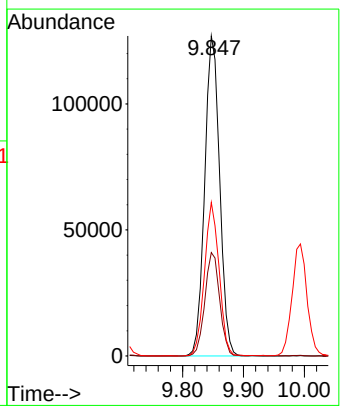
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

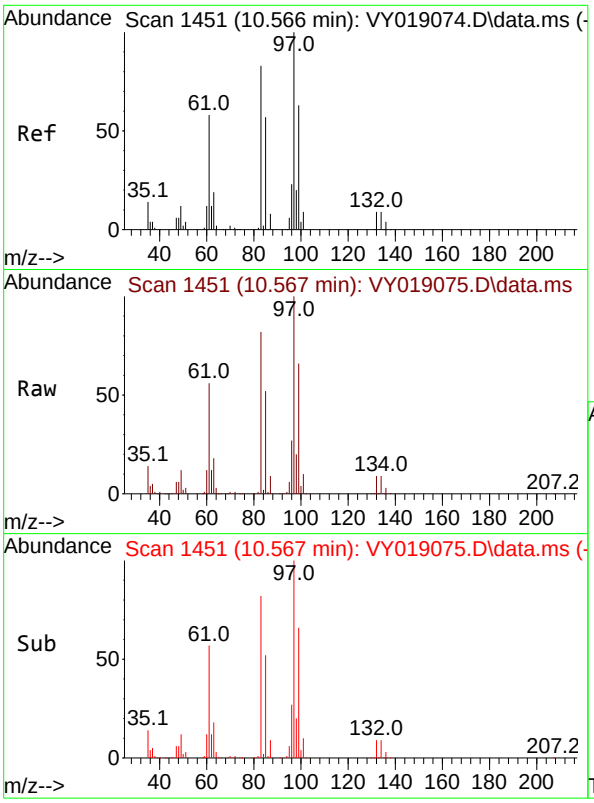


#54
cis-1,3-Dichloropropene
Concen: 102.373 ug/l
RT: 9.847 min Scan# 1333
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 75 Resp: 216850

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.4	38.0
39	47.9	29.8	44.6#

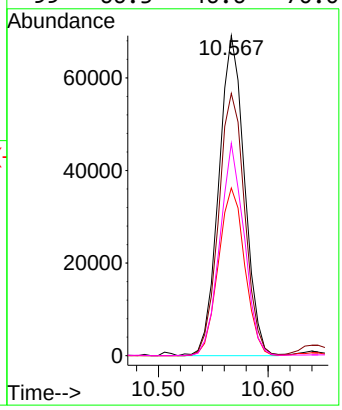




#55
1,1,2-Trichloroethane
Concen: 101.347 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 97 Resp: 11291

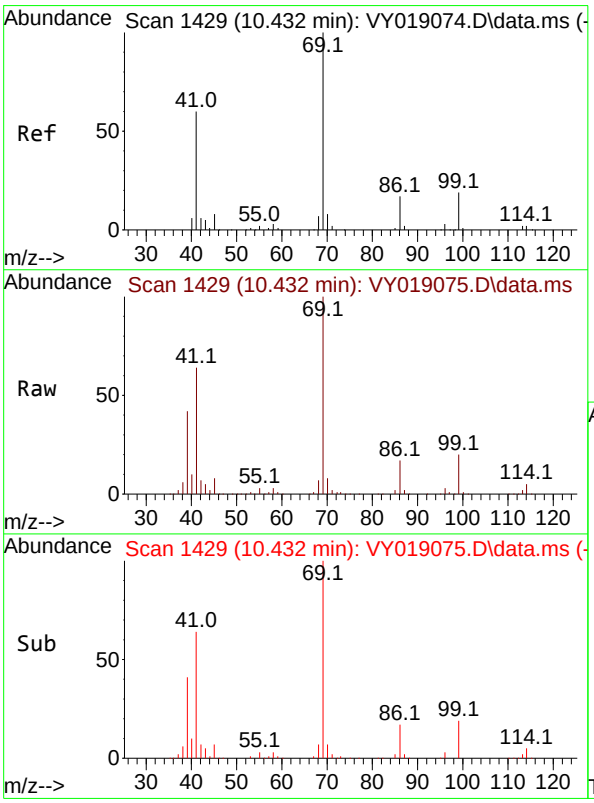
Ion	Ratio	Lower	Upper
97	100		
83	82.0	67.5	101.3
85	52.4	42.9	64.3
99	66.3	46.6	70.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

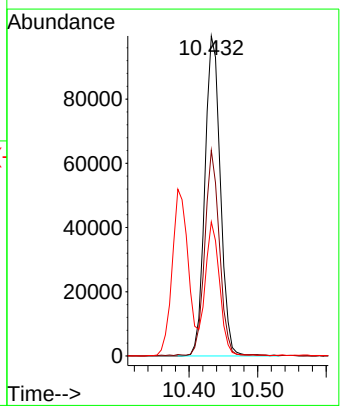
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

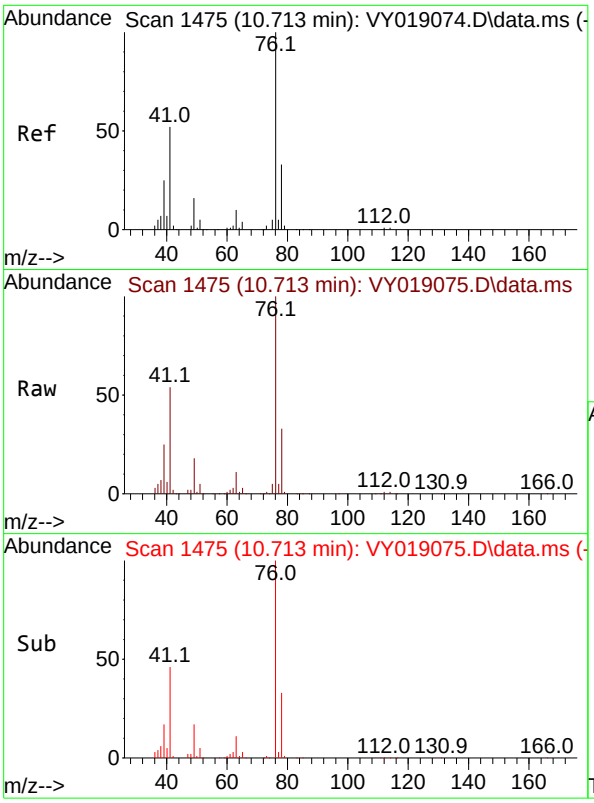


#56
Ethyl methacrylate
Concen: 107.284 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 69 Resp: 156451

Ion	Ratio	Lower	Upper
69	100		
41	61.7	42.3	63.5
39	37.9	22.9	34.3#

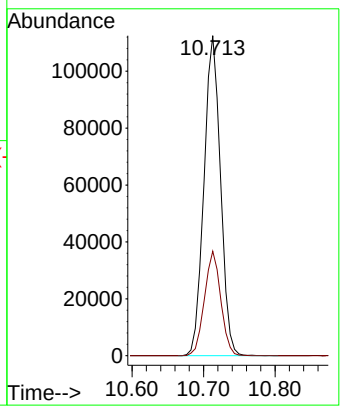




#57
1,3-Dichloropropane
Concen: 99.336 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 76 Resp: 18041

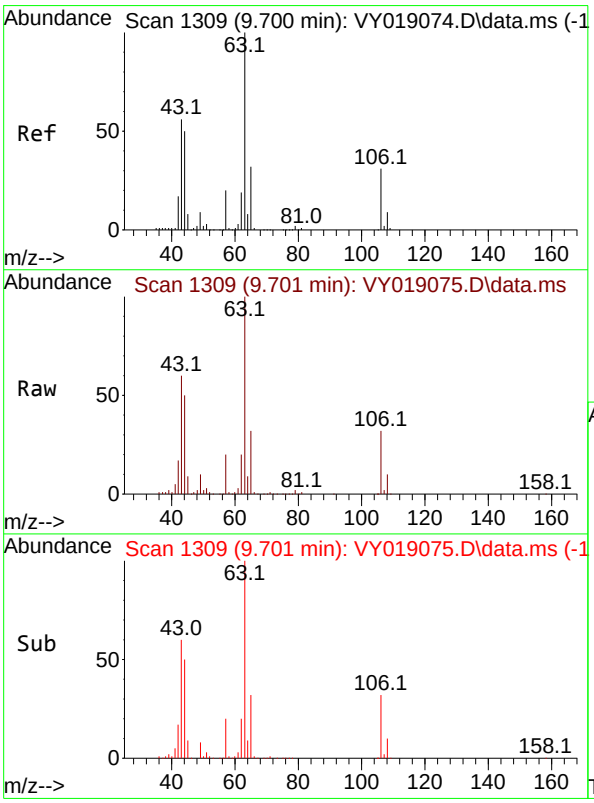
Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

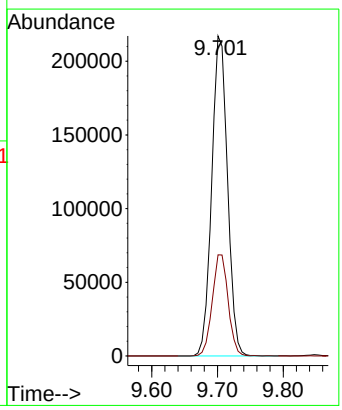
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

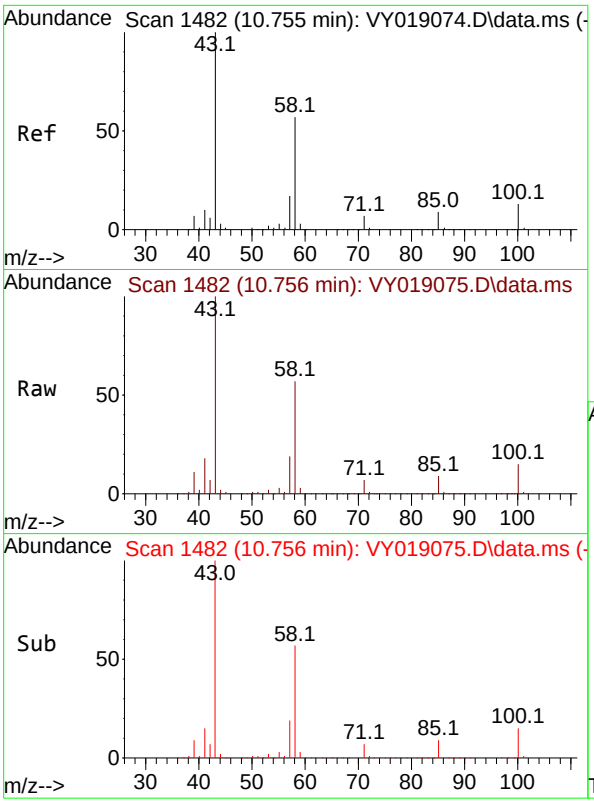


#58
2-Chloroethyl Vinyl ether
Concen: 524.275 ug/l
RT: 9.701 min Scan# 1309
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 63 Resp: 362698

Ion	Ratio	Lower	Upper
63	100		
106	31.8	23.7	35.5

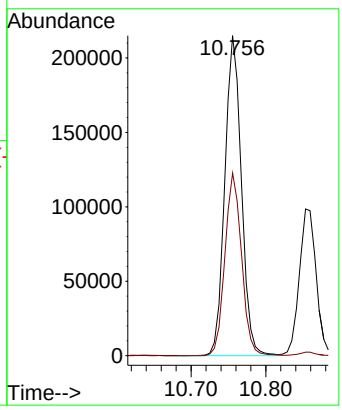




#59
2-Hexanone
Concen: 520.968 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 43 Resp: 33238

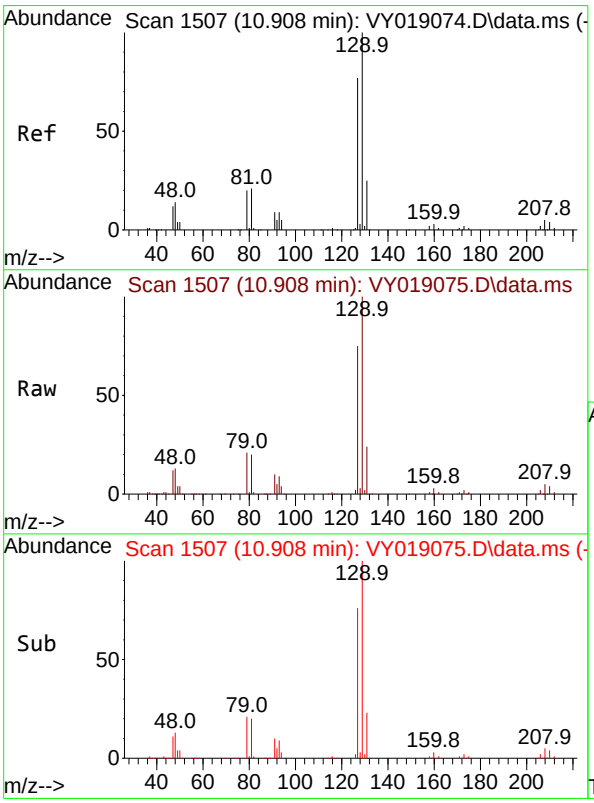
Ion	Ratio	Lower	Upper
43	100		
58	57.2	31.4	94.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

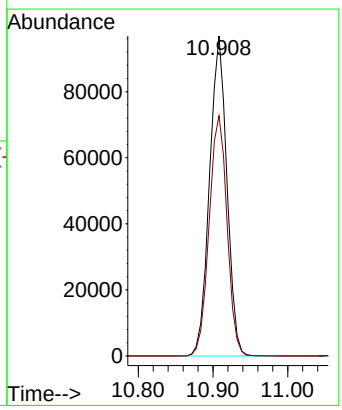
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

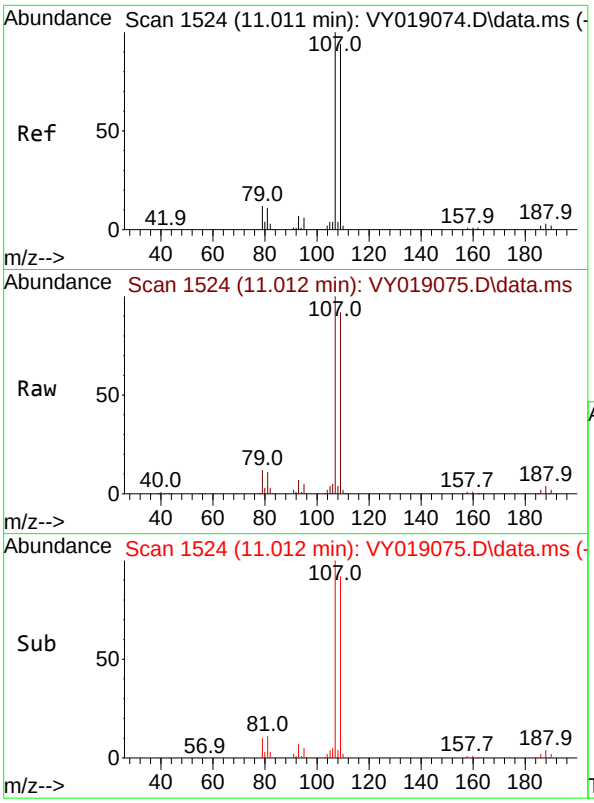


#60
Dibromochloromethane
Concen: 102.814 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:129 Resp: 156015

Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.0	117.0

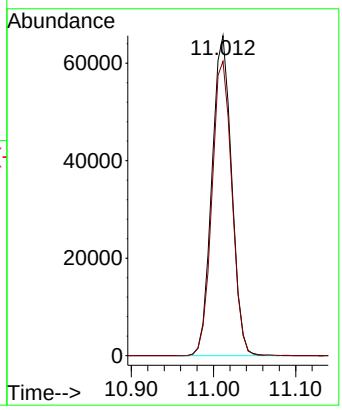




#61
1,2-Dibromoethane
Concen: 101.684 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:107 Resp: 10949

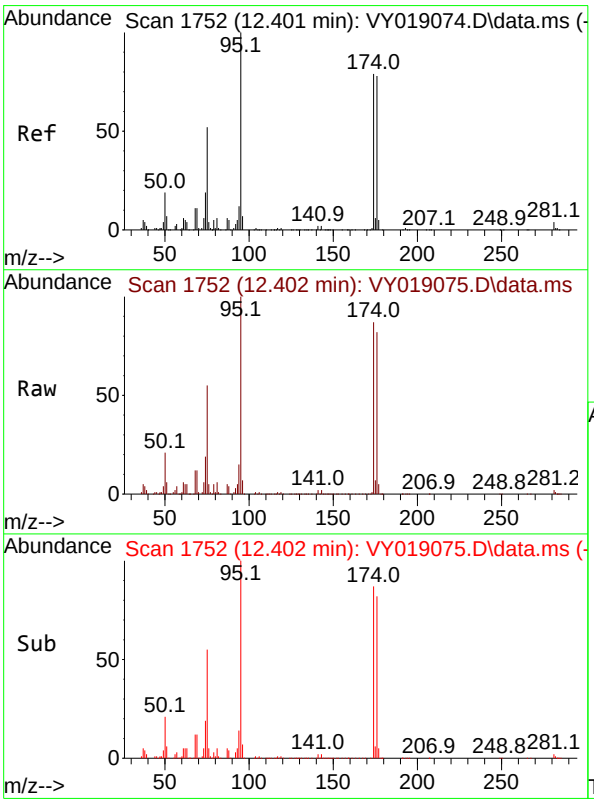
Ion	Ratio	Lower	Upper
107	100		
109	92.9	75.9	113.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

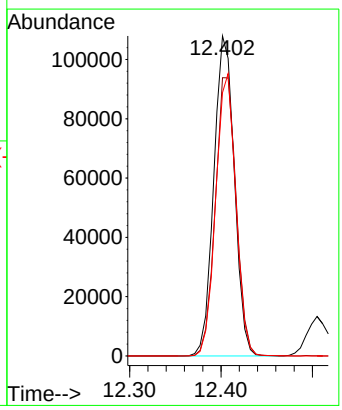
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

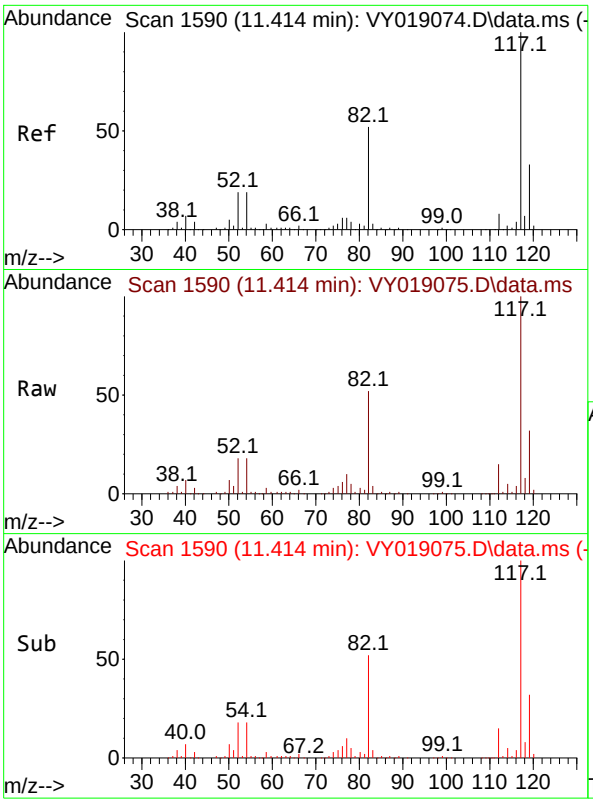


#62
4-Bromofluorobenzene
Concen: 96.498 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 95 Resp: 168343

Ion	Ratio	Lower	Upper
95	100		
174	88.7	0.0	175.6
176	86.6	0.0	171.4

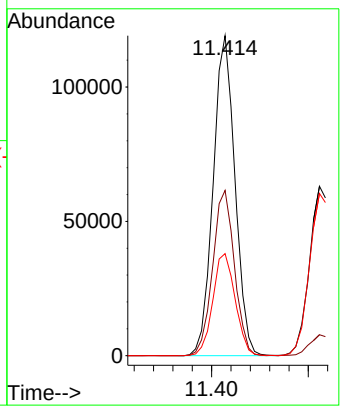




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:117 Resp: 18622

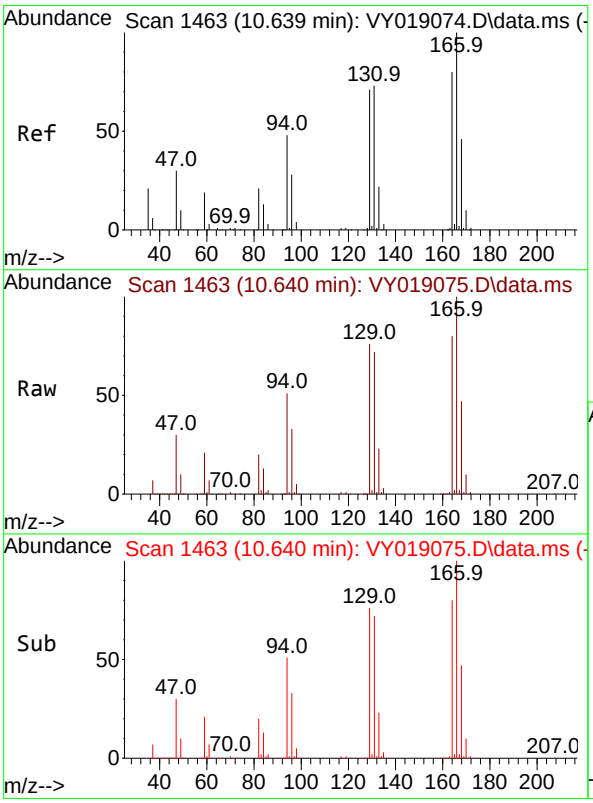
Ion	Ratio	Lower	Upper
117	100		
82	51.7	42.4	63.6
119	31.9	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

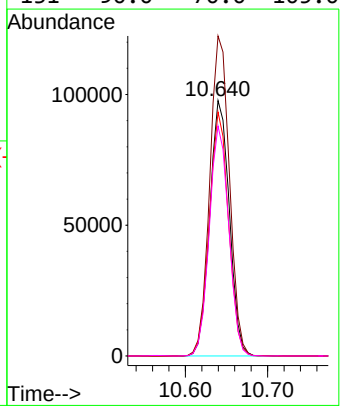
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

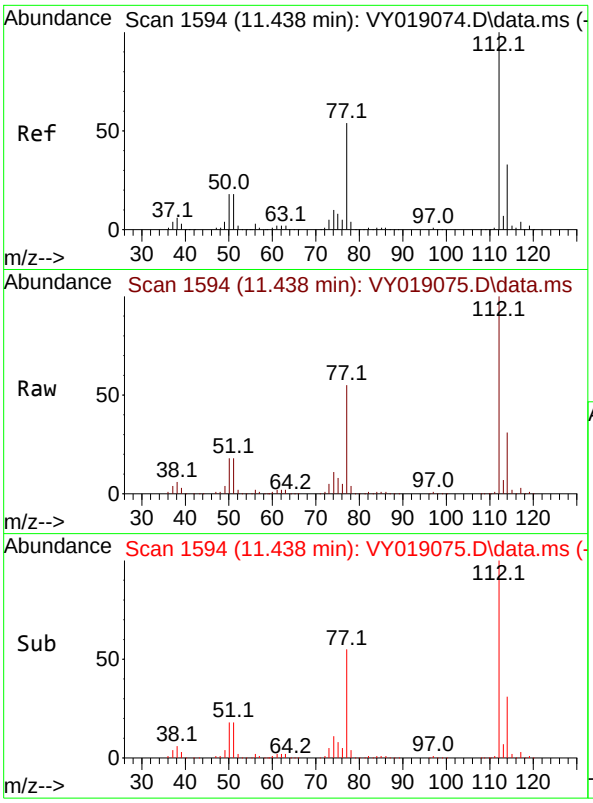


#64
Tetrachloroethene
Concen: 99.596 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:164 Resp: 162117

Ion	Ratio	Lower	Upper
164	100		
166	125.3	102.6	154.0
129	95.5	72.0	108.0
131	90.0	70.0	105.0

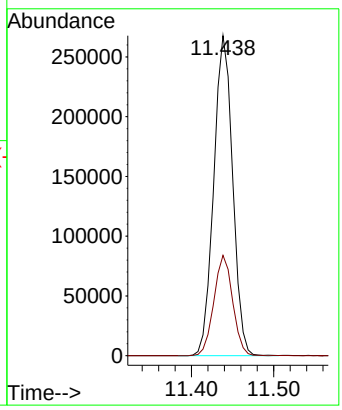




#65
Chlorobenzene
Concen: 99.733 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:112 Resp: 42766

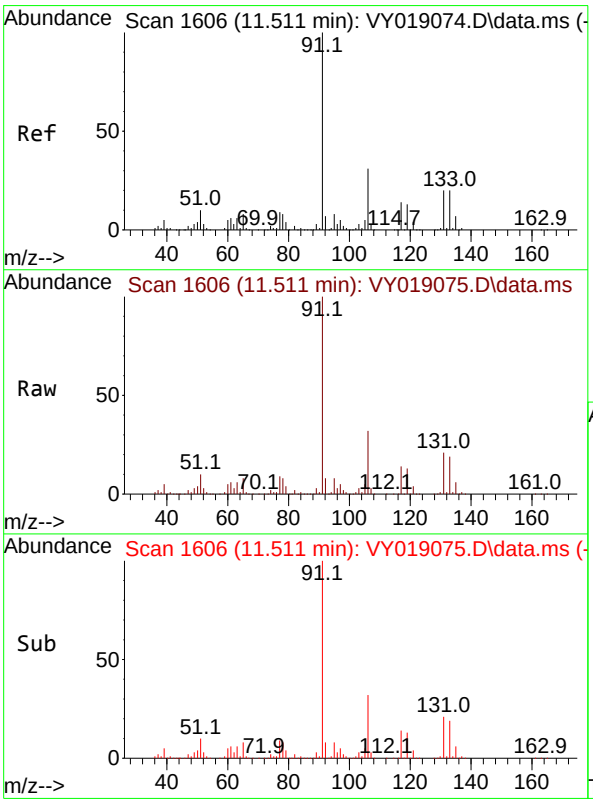
Ion	Ratio	Lower	Upper
112	100		
114	31.4	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

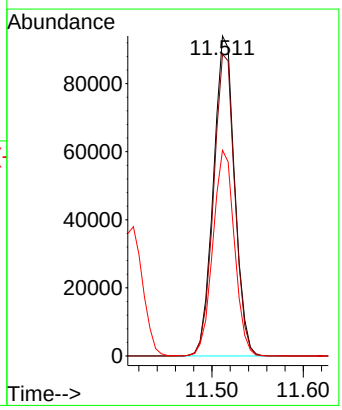
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

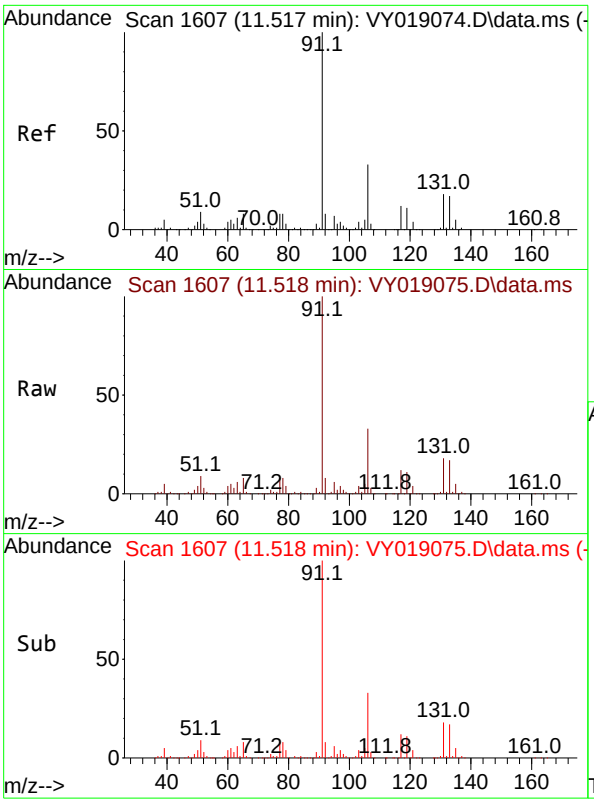


#66
1,1,1,2-Tetrachloroethane
Concen: 100.636 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:131 Resp: 151755

Ion	Ratio	Lower	Upper
131	100		
133	94.4	47.8	143.3
119	65.1	34.1	102.2





#67
Ethyl Benzene
Concen: 99.943 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

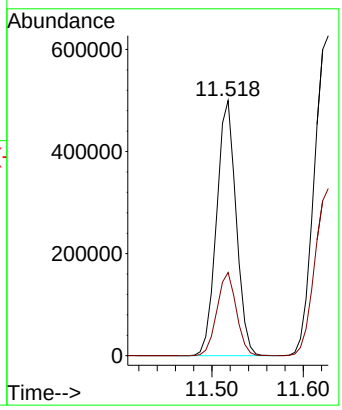
Tgt Ion: 91 Resp: 74383

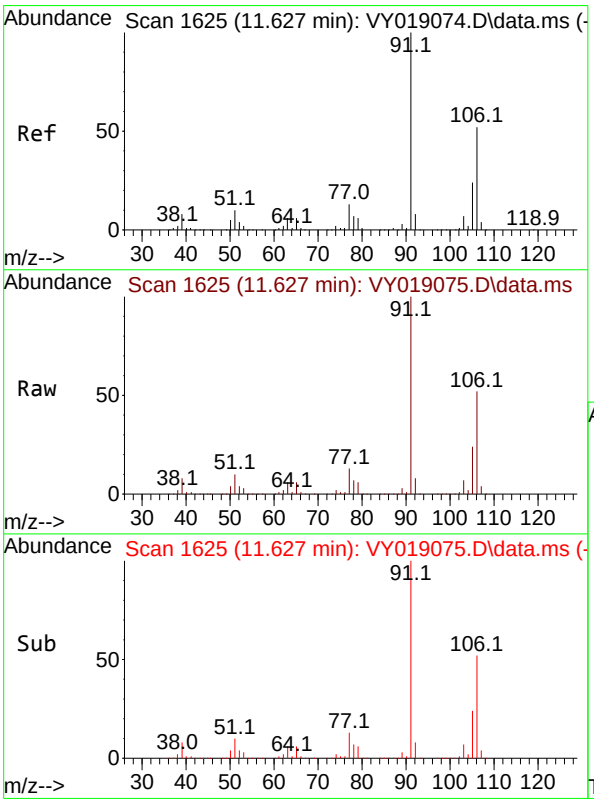
Ion	Ratio	Lower	Upper
91	100		
106	32.6	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

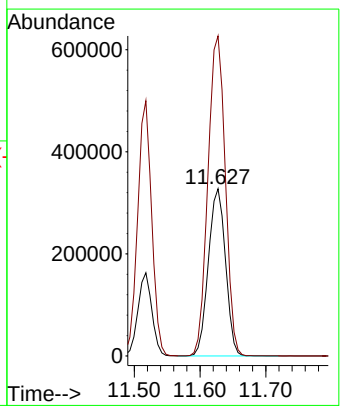


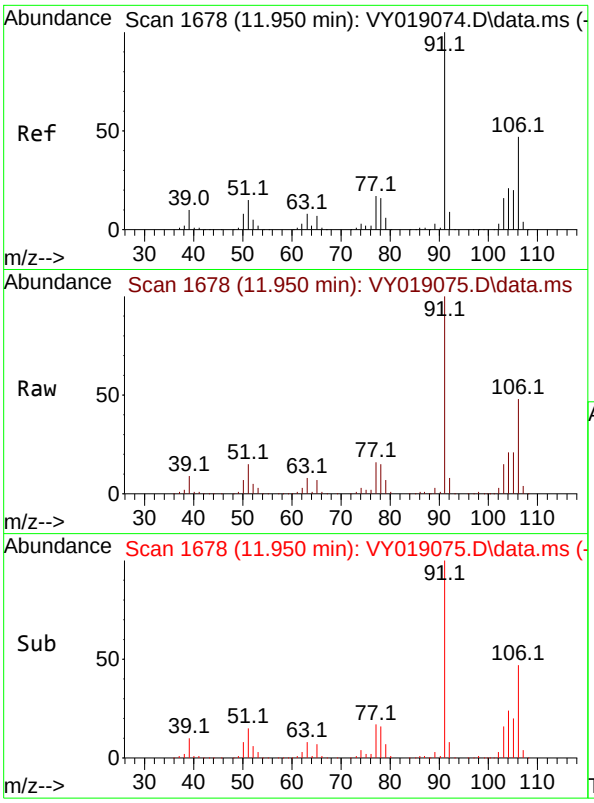


#68
m/p-Xylenes
Concen: 201.108 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:106 Resp: 593903

Ion	Ratio	Lower	Upper
106	100		
91	194.1	156.0	234.0

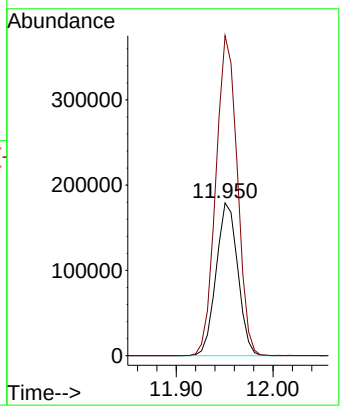




#69
o-Xylene
Concen: 101.869 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:106 Resp: 27858

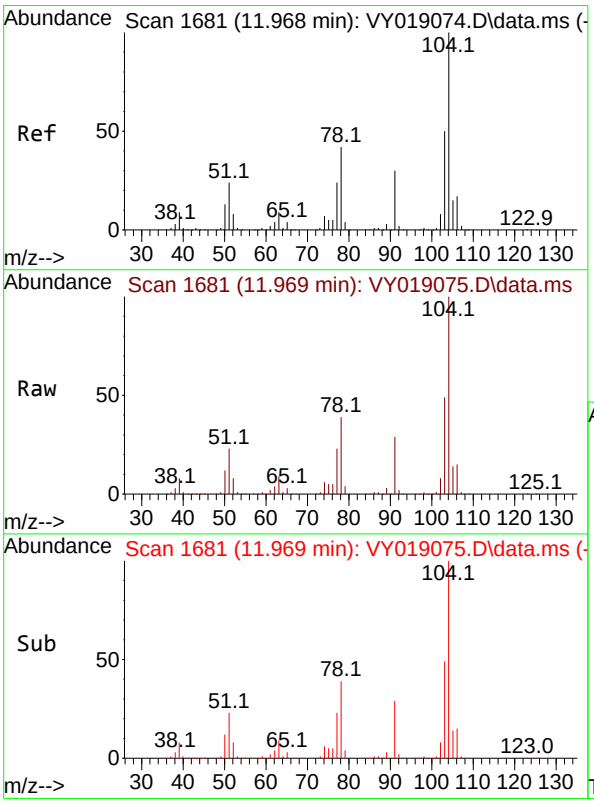
Ion	Ratio	Lower	Upper
106	100		
91	207.5	103.6	310.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

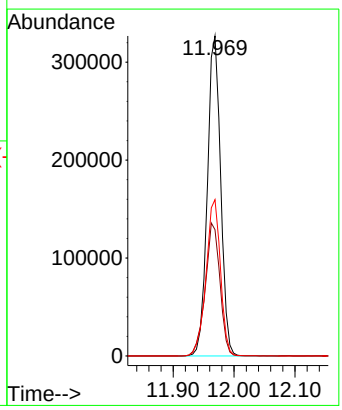
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

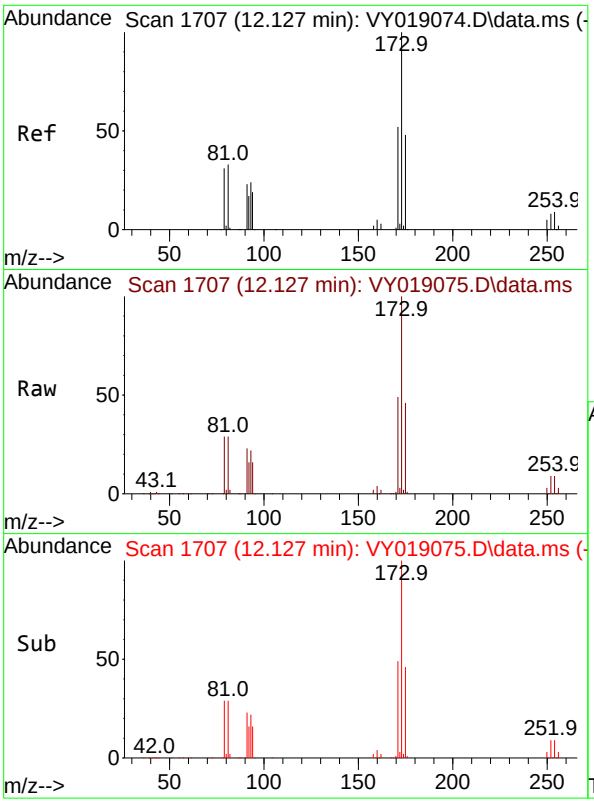


#70
Styrene
Concen: 106.106 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:104 Resp: 494829

Ion	Ratio	Lower	Upper
104	100		
78	46.0	37.0	55.4
103	53.1	44.2	66.2

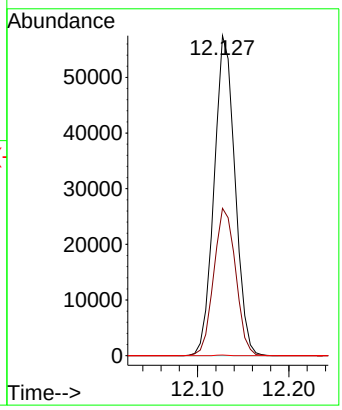




#71
Bromoform
Concen: 105.975 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

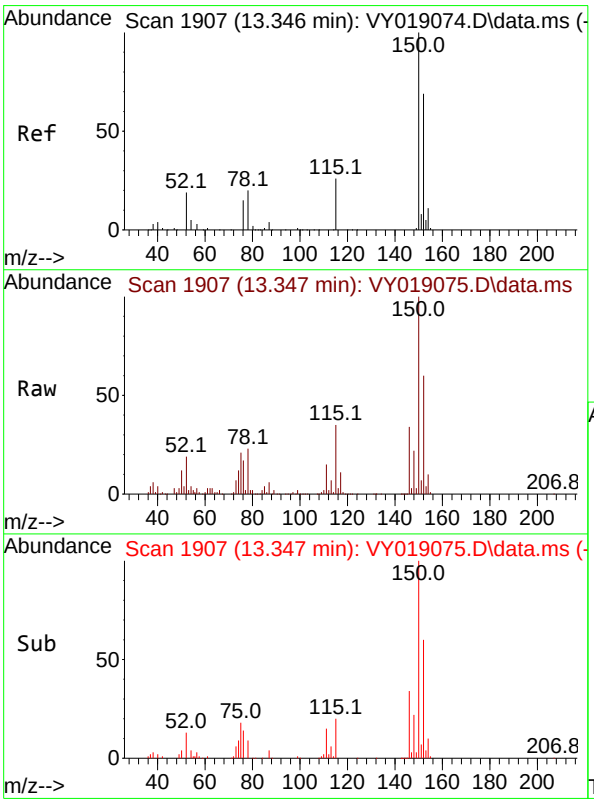
Tgt Ion:173 Resp: 9135

Ion	Ratio	Lower	Upper
173	100		
175	48.3	25.1	75.3
254	0.1	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

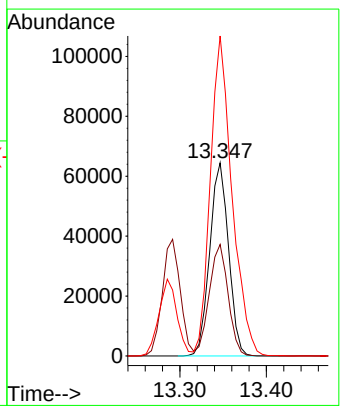
Manual Integrations APPROVED
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

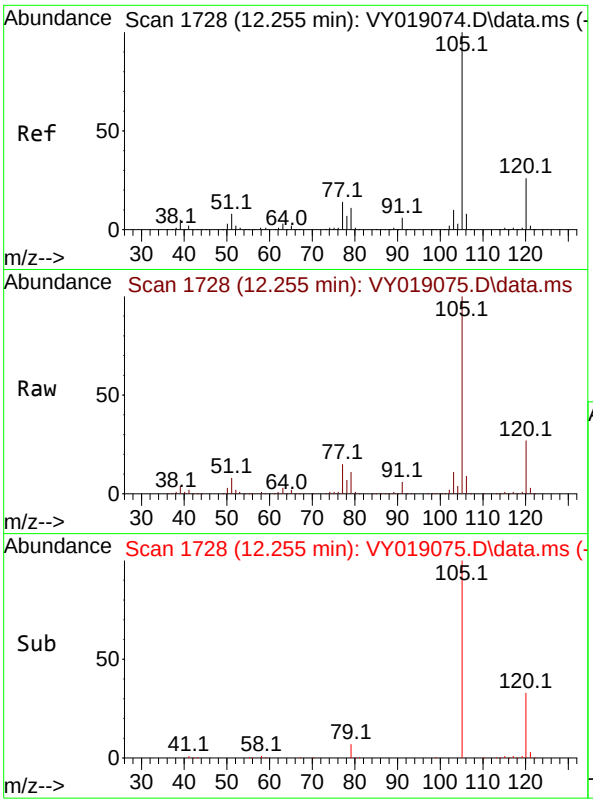


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:152 Resp: 97332

Ion	Ratio	Lower	Upper
152	100		
115	57.9	28.2	84.7
150	190.9	0.0	345.6

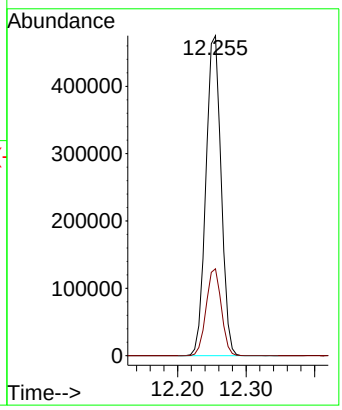




#73
Isopropylbenzene
Concen: 98.153 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:105 Resp: 73222

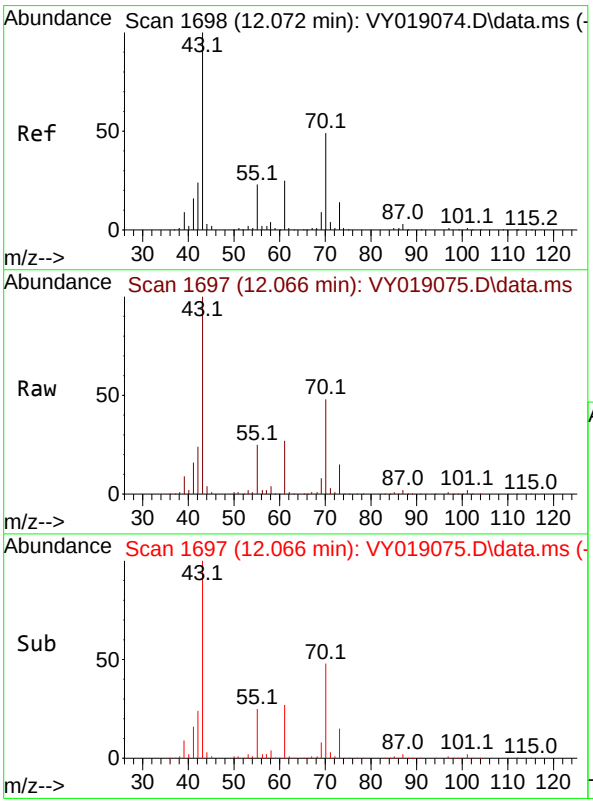
Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

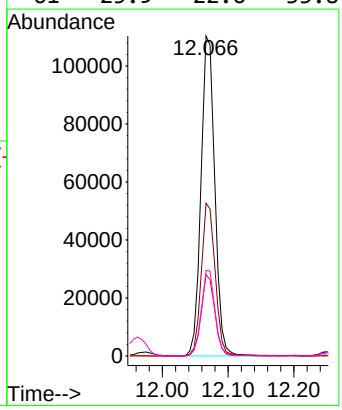
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

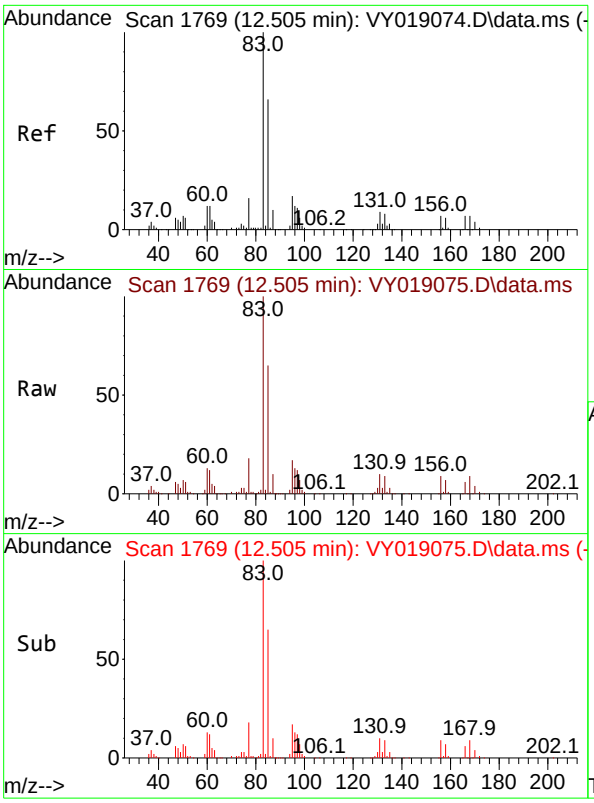


#74
N-amyl acetate
Concen: 99.375 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 43 Resp: 161654

Ion	Ratio	Lower	Upper
43	100		
70	48.0	41.4	62.2
55	25.4	23.3	34.9
61	25.9	22.6	33.8





#75
1,1,2,2-Tetrachloroethane
Concen: 91.697 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

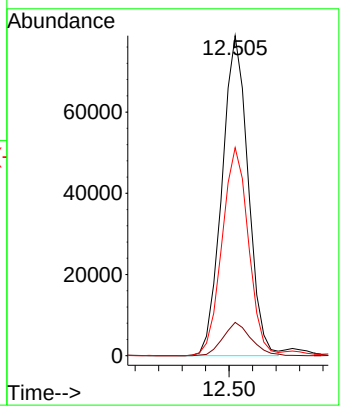
Tgt Ion: 83 Resp: 12178

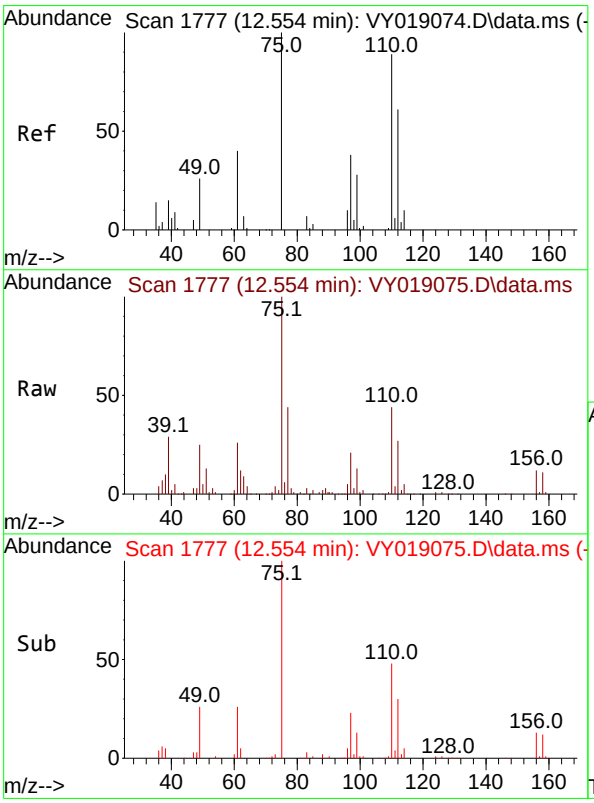
Ion	Ratio	Lower	Upper
83	100		
131	11.1	5.0	14.9
85	65.7	32.0	96.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

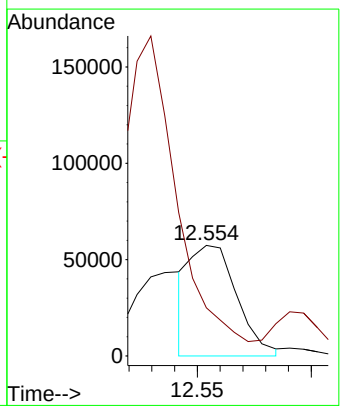


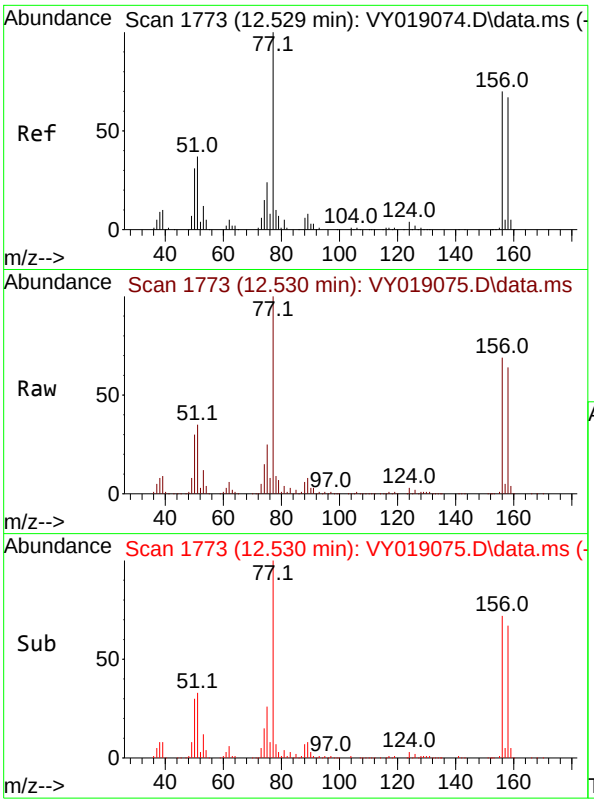


#76
1,2,3-Trichloropropane
Concen: 89.569 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 75 Resp: 82804

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

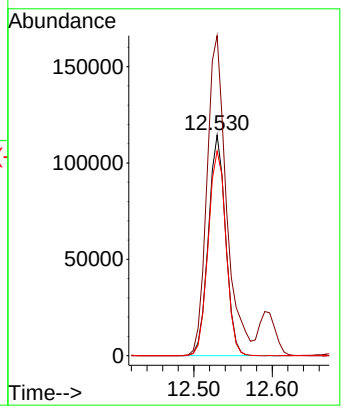




#77
Bromobenzene
Concen: 97.204 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:156 Resp: 17415

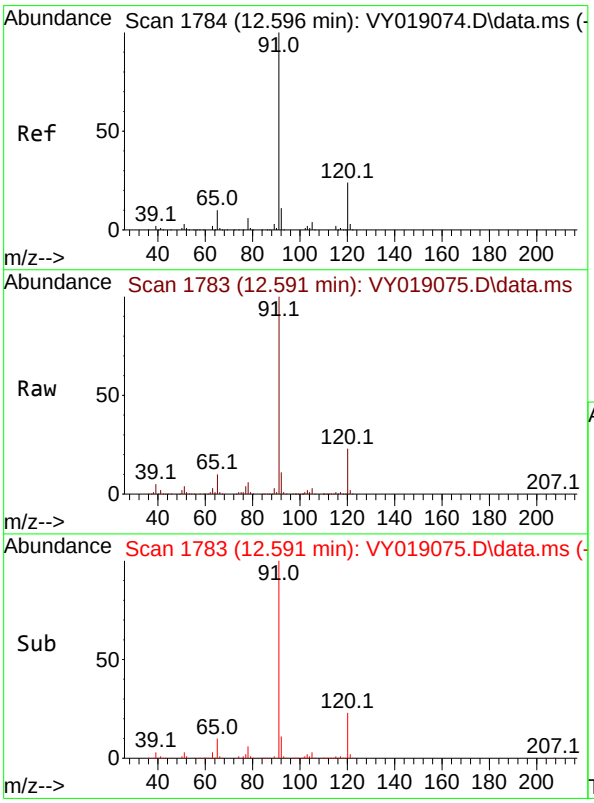
Ion	Ratio	Lower	Upper
156	100		
77	164.0	87.1	261.3
158	96.0	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

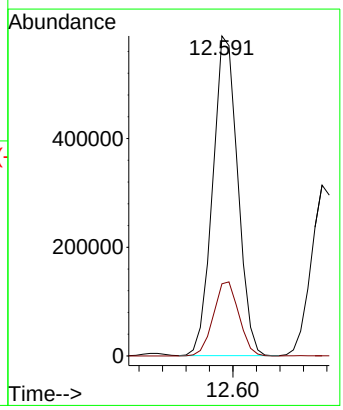
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

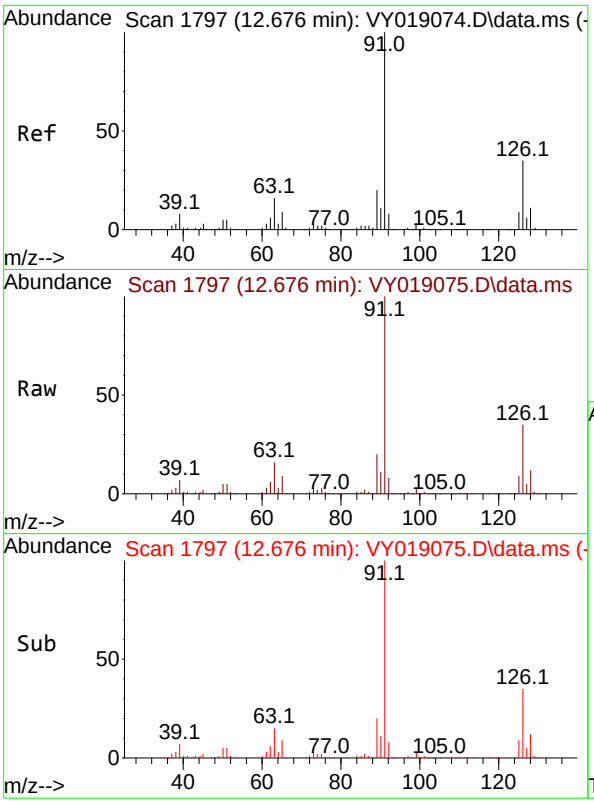


#78
n-propylbenzene
Concen: 97.620 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 91 Resp: 870578

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.5	34.4

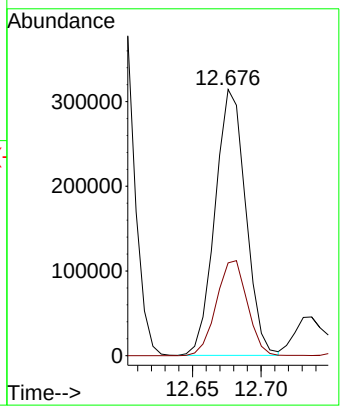




#79
2-Chlorotoluene
Concen: 97.756 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 91 Resp: 48875

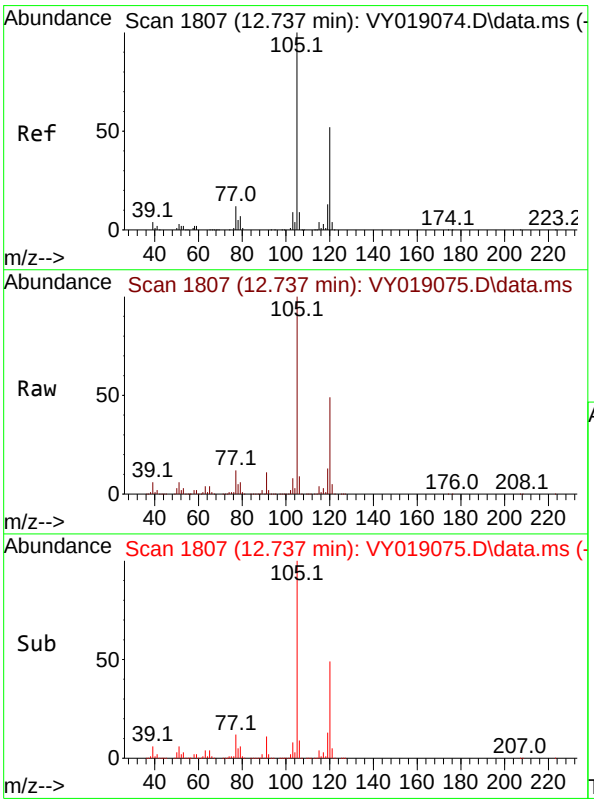
Ion	Ratio	Lower	Upper
91	100		
126	36.2	17.8	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

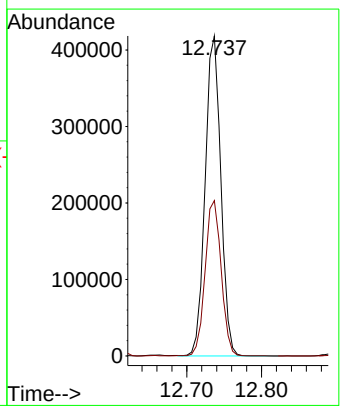
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

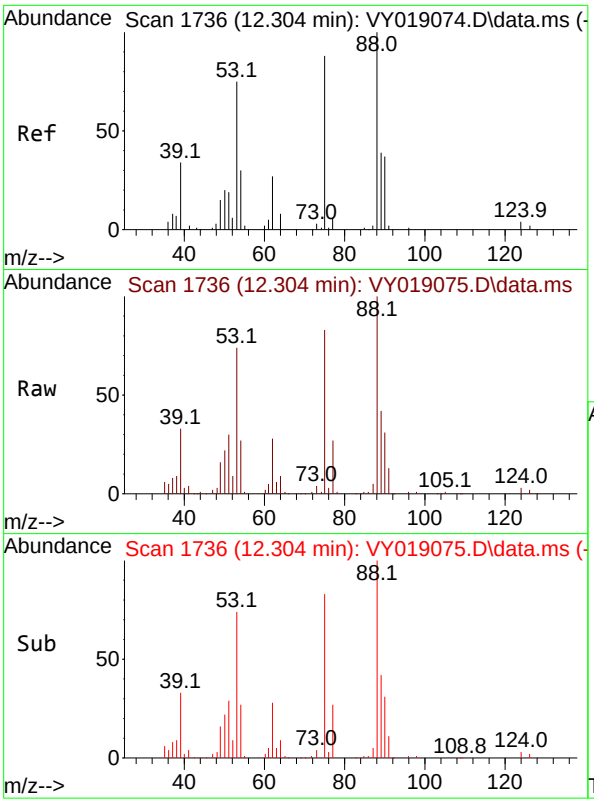


#80
1,3,5-Trimethylbenzene
Concen: 100.020 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:105 Resp: 607856

Ion	Ratio	Lower	Upper
105	100		
120	49.9	25.1	75.2





#81
trans-1,4-Dichloro-2-butene
Concen: 99.304 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

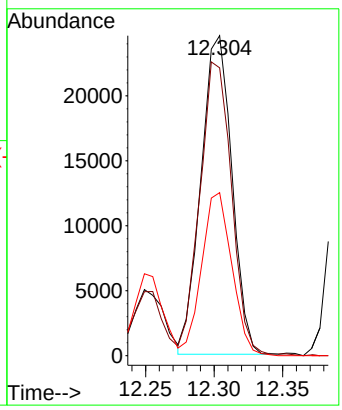
Tgt Ion: 75 Resp: 3859

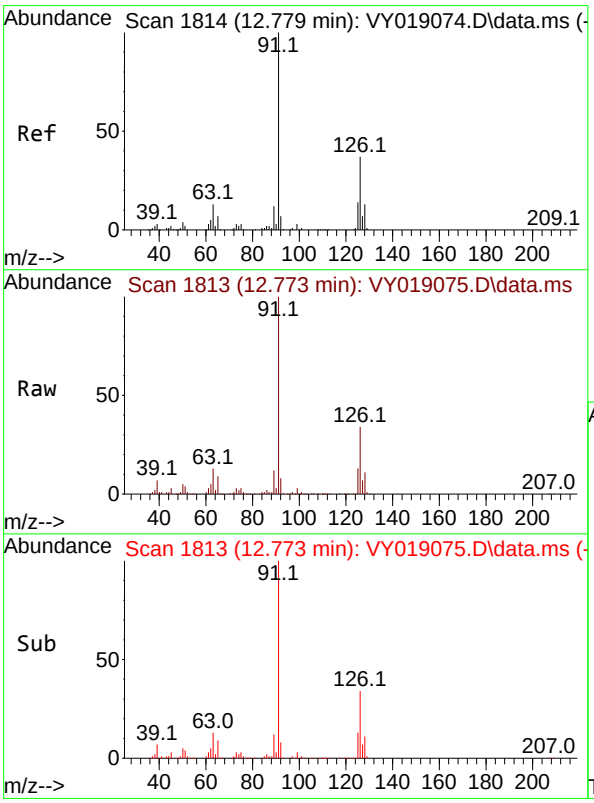
Ion	Ratio	Lower	Upper
75	100		
53	94.6	66.8	100.2
89	50.0	35.8	53.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

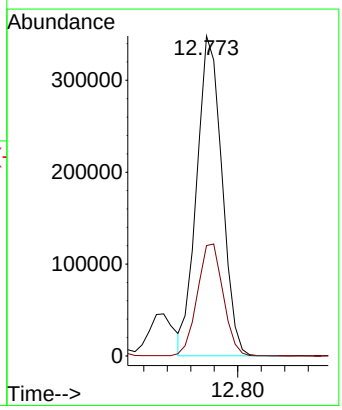


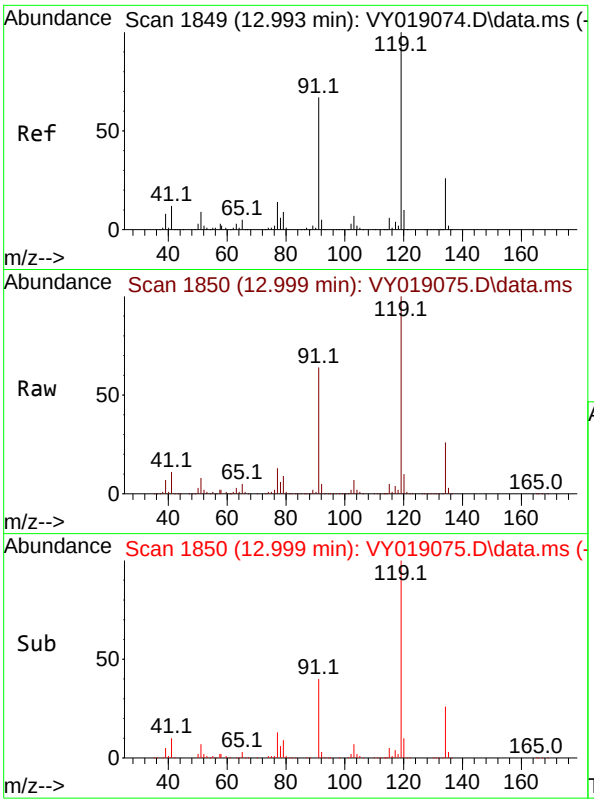


#82
4-Chlorotoluene
Concen: 99.876 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 91 Resp: 519527

Ion	Ratio	Lower	Upper
91	100		
126	35.9	17.6	52.9

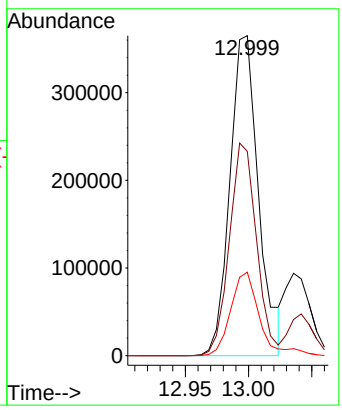




#83
tert-Butylbenzene
Concen: 102.473 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:119 Resp: 57511

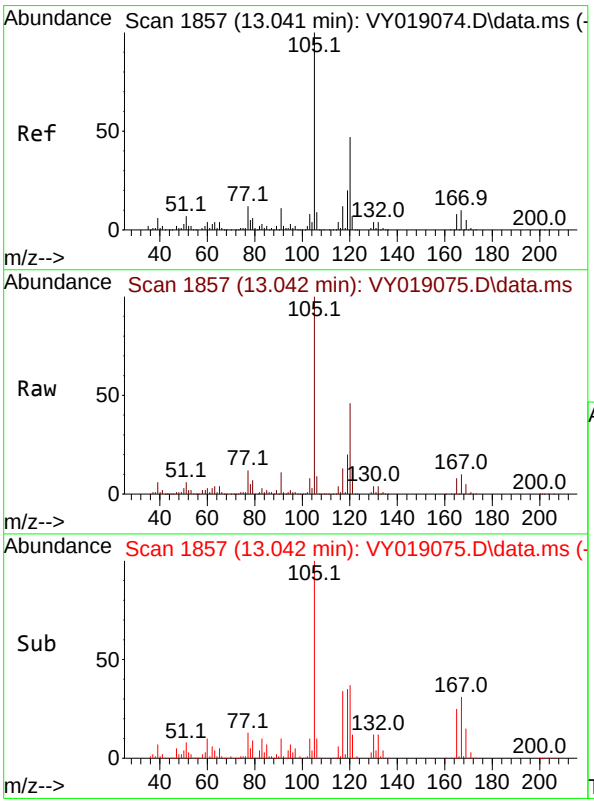
Ion	Ratio	Lower	Upper
119	100		
91	63.1	31.3	93.8
134	26.3	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

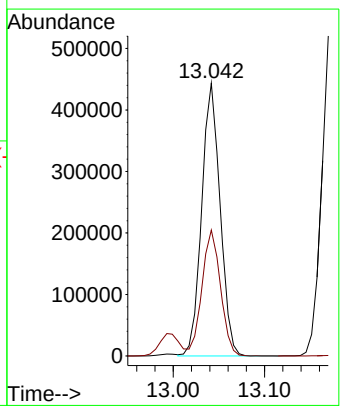
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

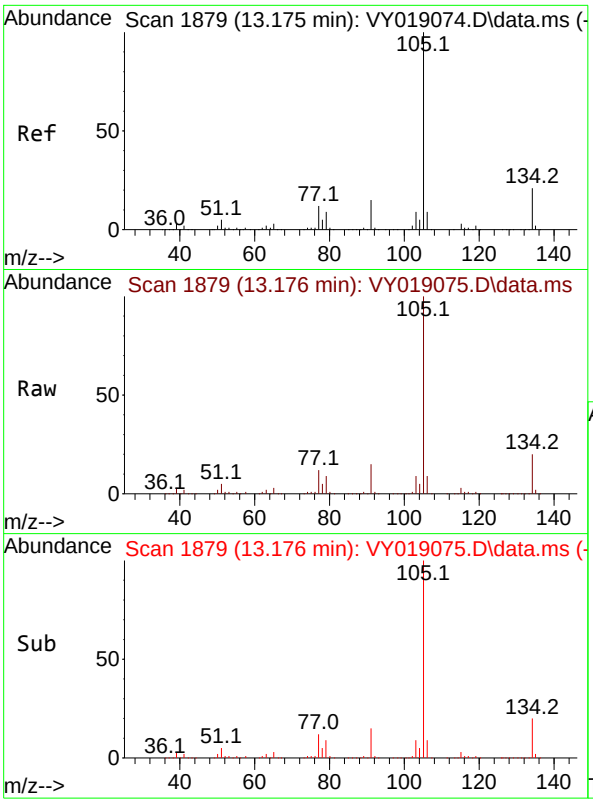


#84
1,2,4-Trimethylbenzene
Concen: 102.226 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:105 Resp: 619185

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.2	69.6

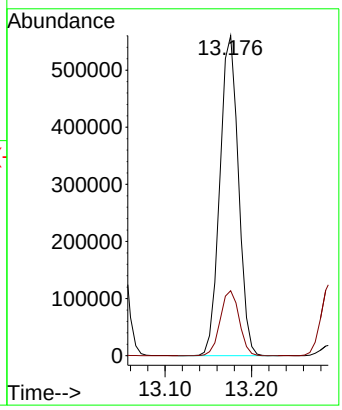




#85
sec-Butylbenzene
Concen: 101.845 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:105 Resp: 83295

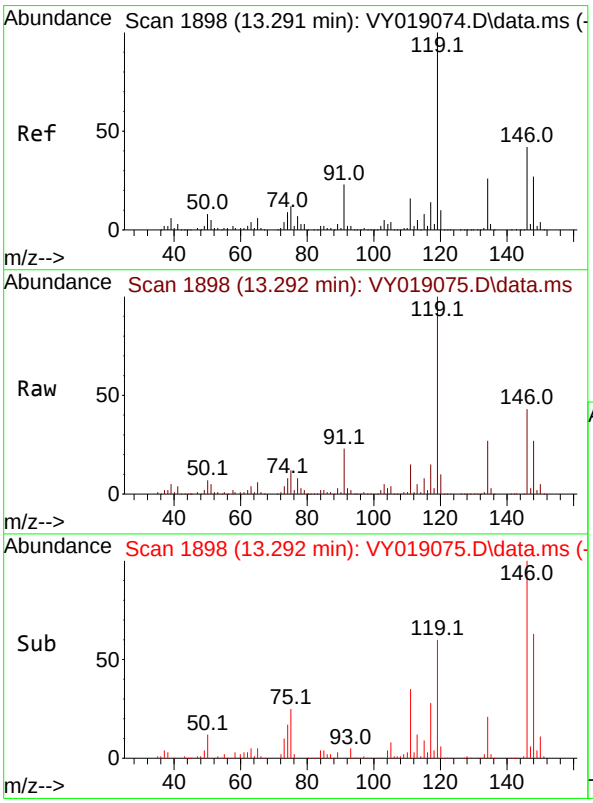
Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

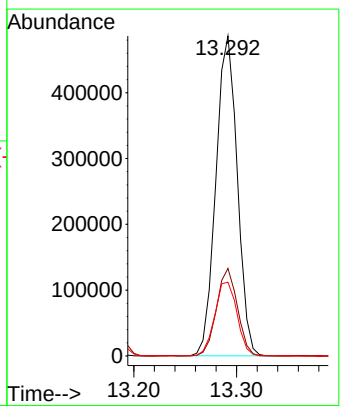
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

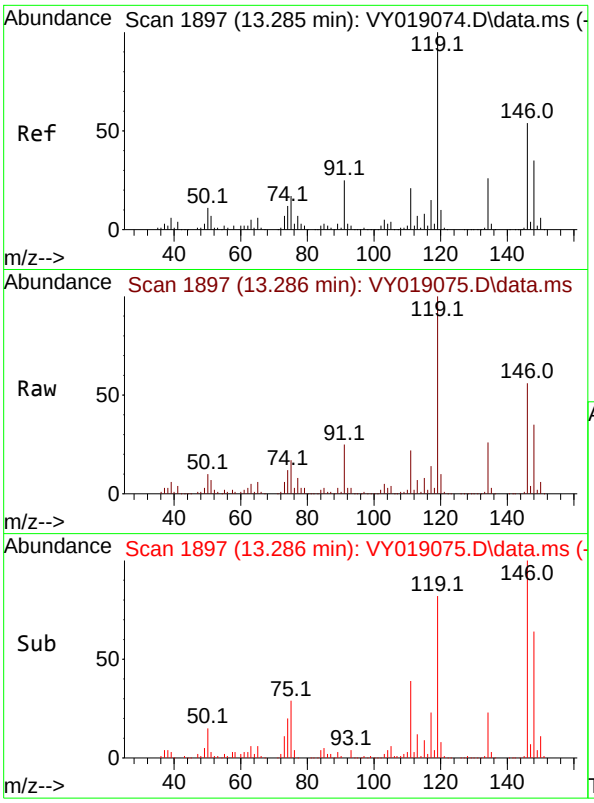


#86
p-Isopropyltoluene
Concen: 104.464 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:119 Resp: 701773

Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.1	39.3
91	24.1	10.7	32.1





#87
1,3-Dichlorobenzene
Concen: 102.077 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

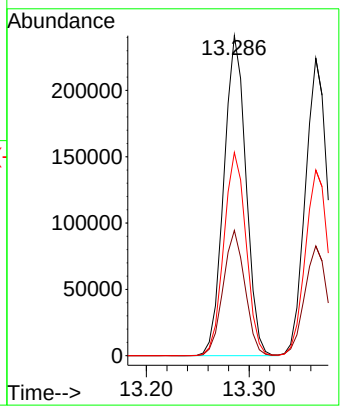
Tgt Ion:146 Resp: 36066

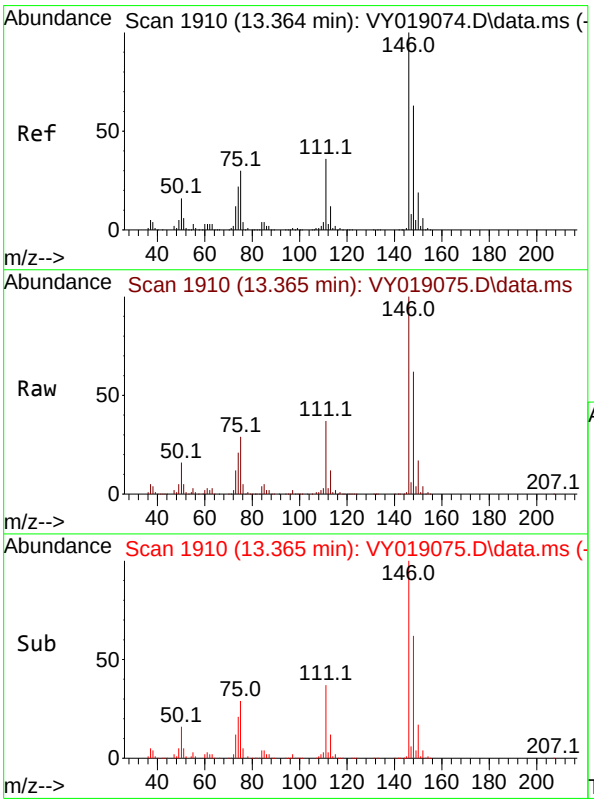
Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.0	57.0
148	63.8	31.7	95.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

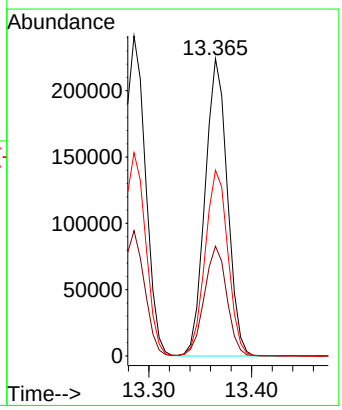


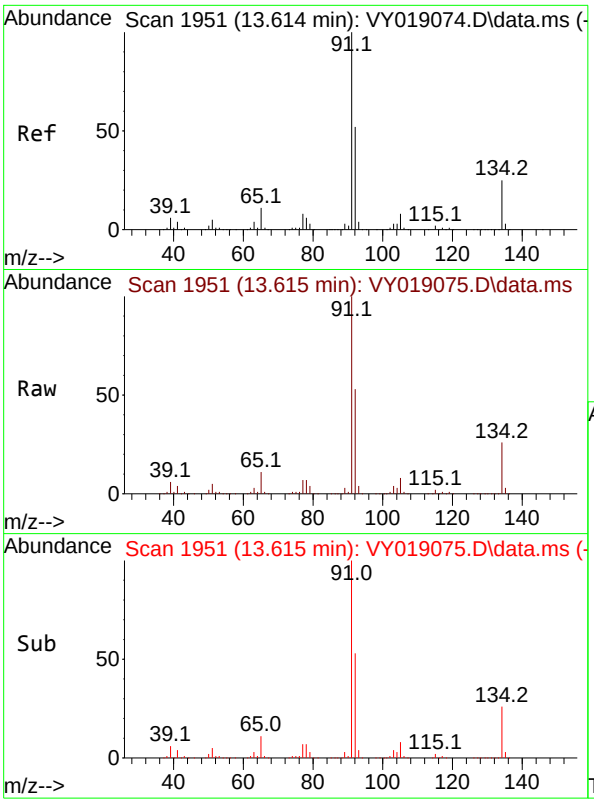


#88
1,4-Dichlorobenzene
Concen: 96.447 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:146 Resp: 338741

Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.4	55.4
148	63.8	32.4	97.2

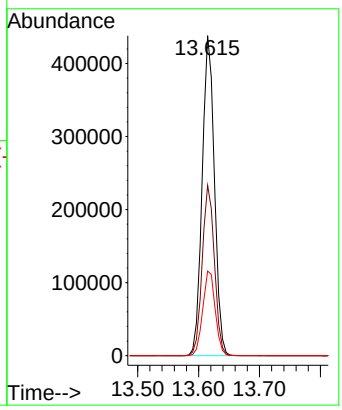




#89
n-Butylbenzene
Concen: 100.122 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 91 Resp: 61322

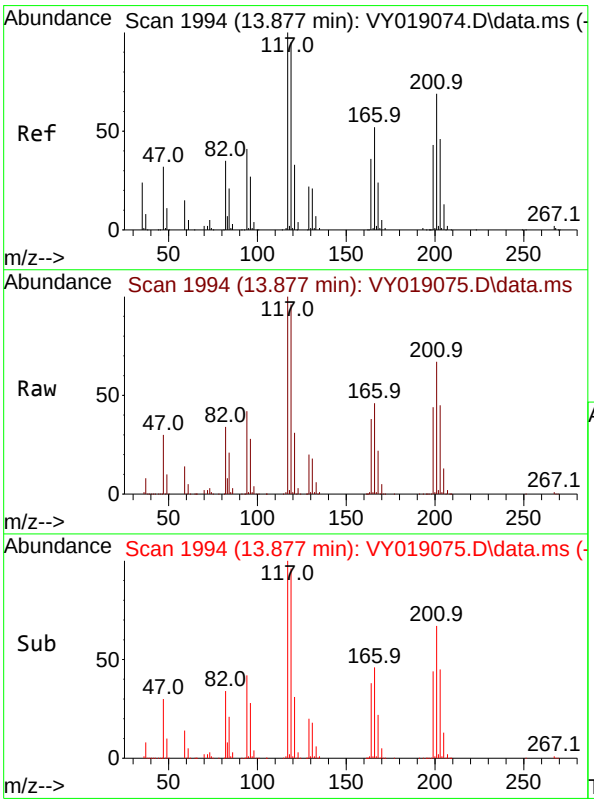
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.6	79.7
134	26.9	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

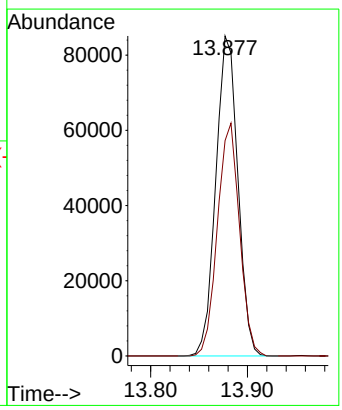
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

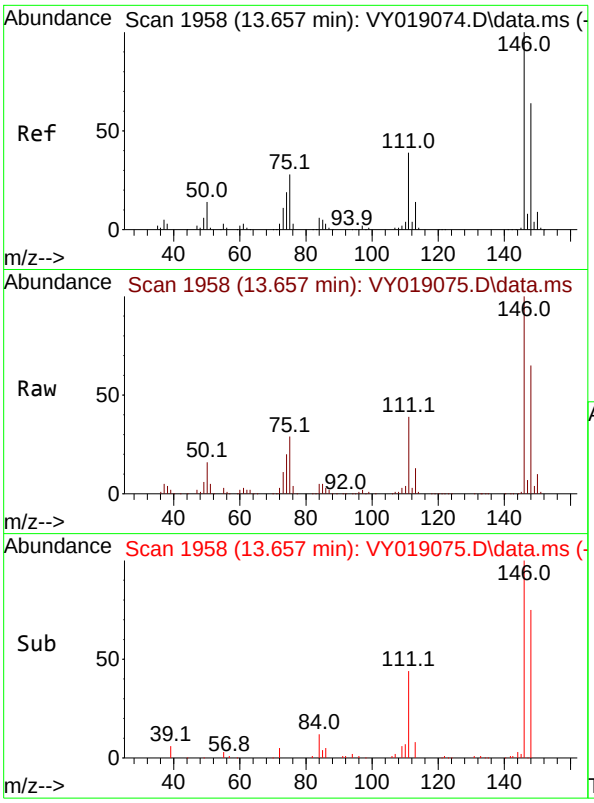


#90
Hexachloroethane
Concen: 101.704 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:117 Resp: 134668

Ion	Ratio	Lower	Upper
117	100		
201	73.0	37.4	112.2

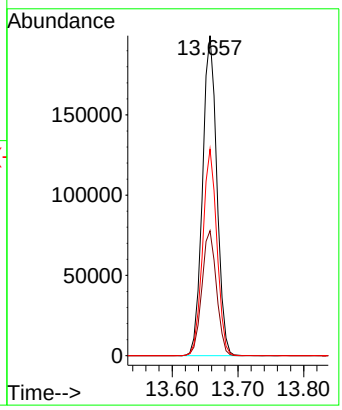




#91
1,2-Dichlorobenzene
Concen: 97.075 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:146 Resp: 30165

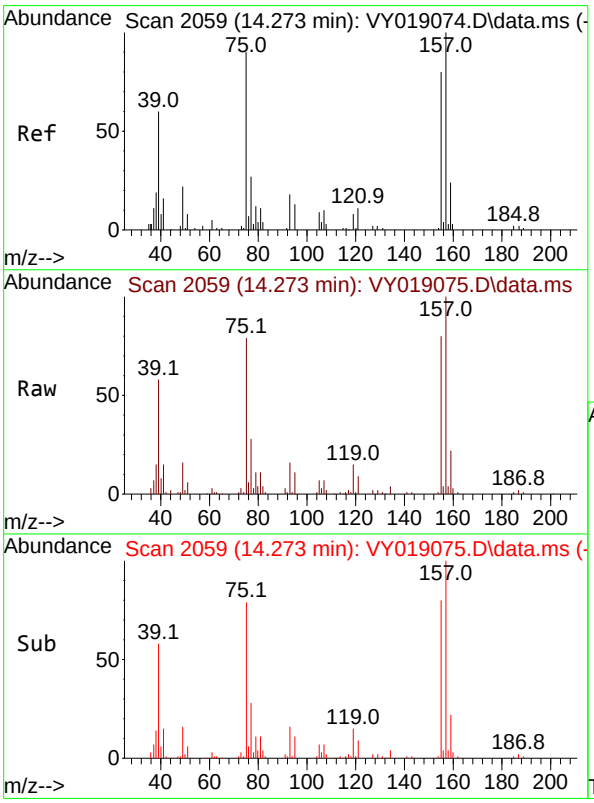
Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.9	59.7
148	63.9	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

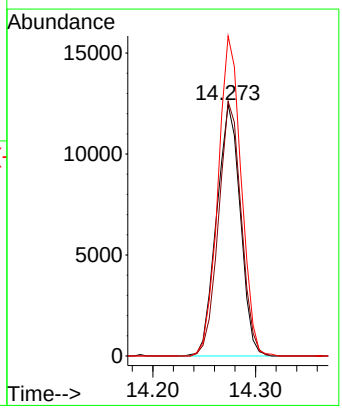
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

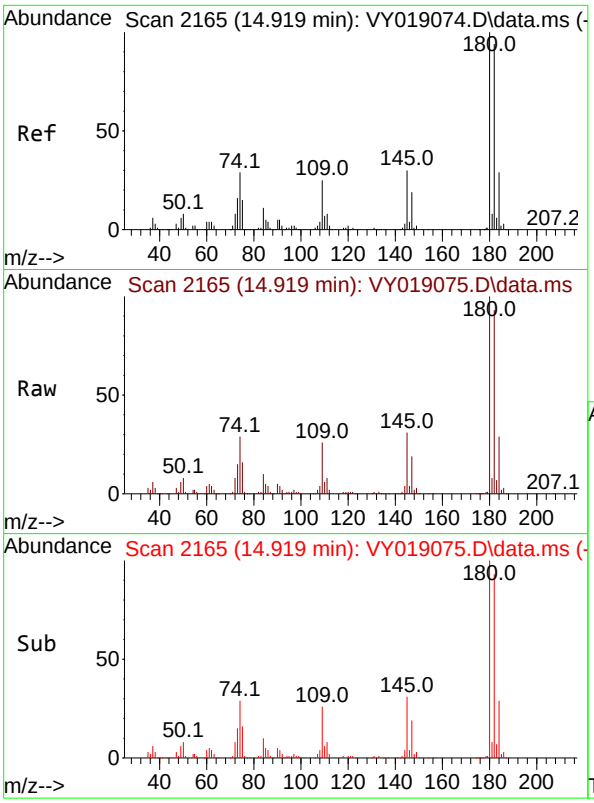


#92
1,2-Dibromo-3-Chloropropane
Concen: 101.793 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion: 75 Resp: 19888

Ion	Ratio	Lower	Upper
75	100		
155	96.9	48.6	145.8
157	124.5	62.7	188.2

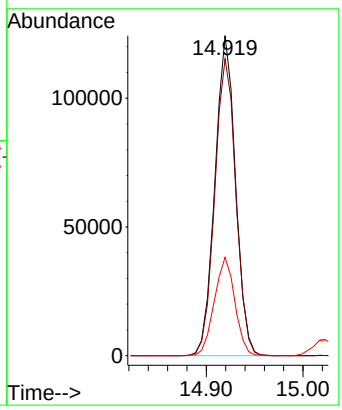




#93
1,2,4-Trichlorobenzene
Concen: 104.524 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:180 Resp: 18317

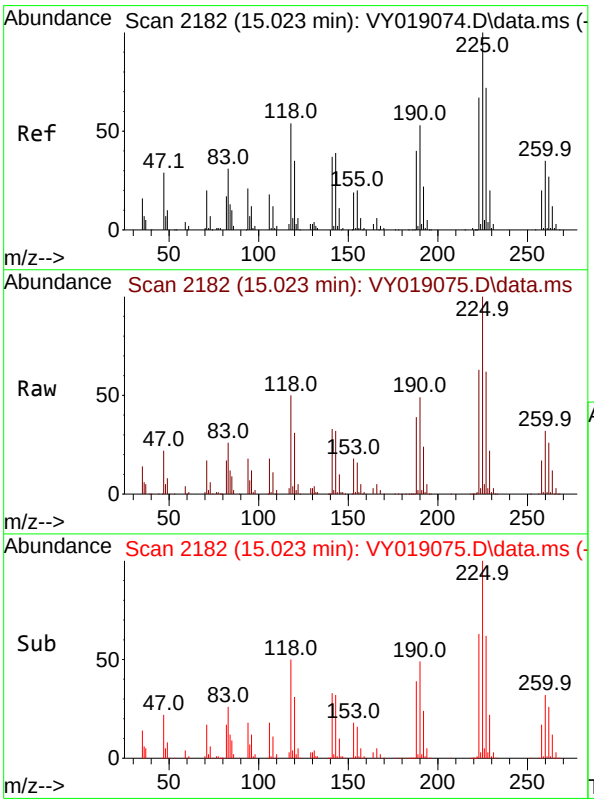
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.9	143.8
145	30.7	14.2	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

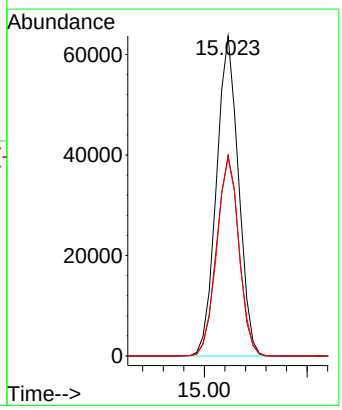
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

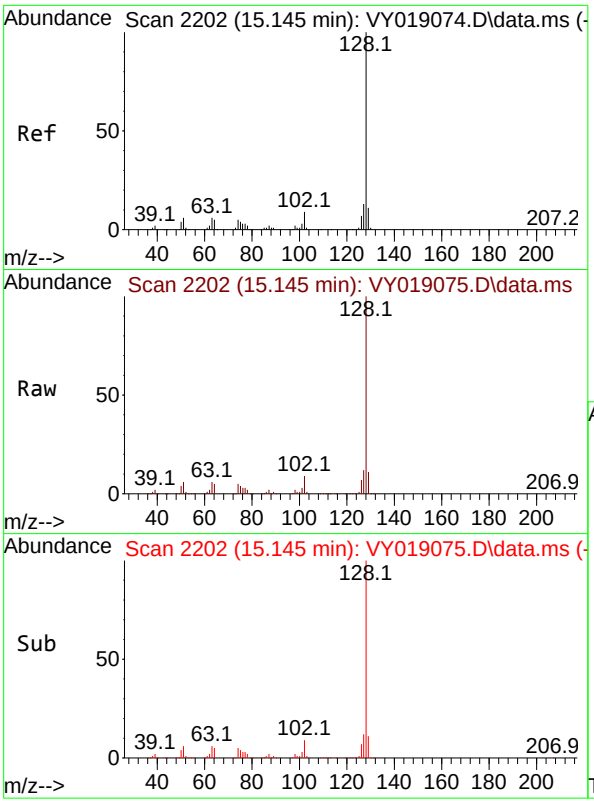


#94
Hexachlorobutadiene
Concen: 103.511 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:225 Resp: 94484

Ion	Ratio	Lower	Upper
225	100		
223	63.2	30.4	91.2
227	62.9	31.9	95.9

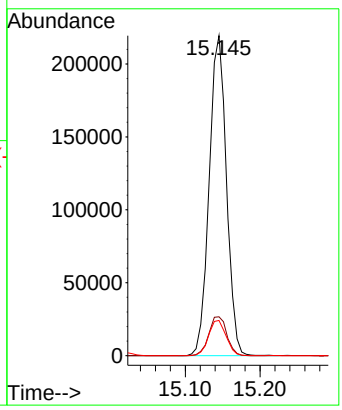




#95
Naphthalene
Concen: 112.877 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:128 Resp: 35303

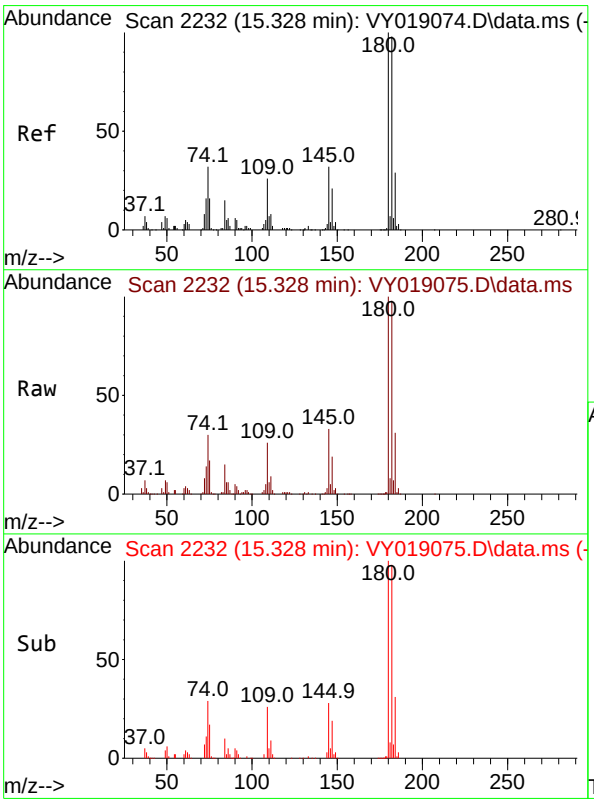
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	11.2	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

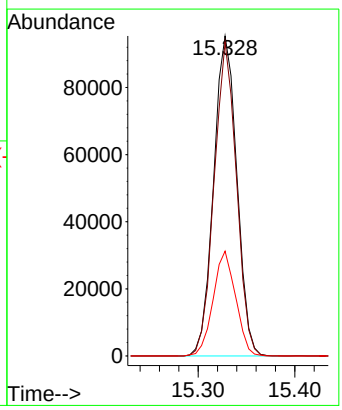
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024



#96
1,2,3-Trichlorobenzene
Concen: 107.435 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY019075.D
Acq: 15 Aug 2024 19:26

Tgt Ion:180 Resp: 158794

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.6	142.9
145	31.8	15.4	46.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019076.D
Acq On : 15 Aug 2024 19:50
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 05:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.695	168	152300	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.603	114	233756	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	204423	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	103374	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.049	65	202554	132.675	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 265.360%#			
35) Dibromofluoromethane	7.616	113	217429	142.256	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 284.520%#			
50) Toluene-d8	10.103	98	780856	141.966	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 283.940%#			
62) 4-Bromofluorobenzene	12.402	95	271785	144.948	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 289.900%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	148333	132.748	ug/l	100
3) Chloromethane	2.062	50	239051	118.689	ug/l	99
4) Vinyl Chloride	2.196	62	297256	119.484	ug/l	99
5) Bromomethane	2.562	94	203746	145.411	ug/l	99
6) Chloroethane	2.714	64	189405	149.351	ug/l	99
7) Trichlorofluoromethane	3.043	101	475235	126.348	ug/l	95
8) Diethyl Ether	3.440	74	108701	133.889	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.799	101	213832	127.878	ug/l	98
10) Methyl Iodide	3.988	142	239325	146.018	ug/l	95
11) Tert butyl alcohol	4.848	59	87119	753.093	ug/l #	80
12) 1,1-Dichloroethene	3.775	96	203941	134.243	ug/l	97
13) Acrolein	3.635	56	80464	740.418	ug/l	99
14) Allyl chloride	4.366	41	279902	138.577	ug/l	92
15) Acrylonitrile	5.043	53	232128	698.766	ug/l	99
16) Acetone	3.854	43	187534	662.362	ug/l	89
17) Carbon Disulfide	4.086	76	579000	135.124	ug/l	98
18) Methyl Acetate	4.366	43	117485	135.203	ug/l	96
19) Methyl tert-butyl Ether	5.104	73	534853	145.216	ug/l	97
20) Methylene Chloride	4.598	84	223901	147.221	ug/l	96
21) trans-1,2-Dichloroethene	5.092	96	227992	134.329	ug/l	97
22) Diisopropyl ether	6.006	45	643082	139.078	ug/l	96
23) Vinyl Acetate	5.945	43	2712972	741.086	ug/l	97
24) 1,1-Dichloroethane	5.903	63	374219	132.338	ug/l	98
25) 2-Butanone	6.878	43	312311	684.937	ug/l	91
26) 2,2-Dichloropropane	6.866	77	312468	136.457	ug/l	100
27) cis-1,2-Dichloroethene	6.872	96	276283	138.321	ug/l	99
28) Bromochloromethane	7.226	49	153305	129.242	ug/l	99
29) Tetrahydrofuran	7.244	42	202780	691.822	ug/l	94
30) Chloroform	7.402	83	425274	134.968	ug/l	98
31) Cyclohexane	7.683	56	300928	146.017	ug/l	98
32) 1,1,1-Trichloroethane	7.604	97	387346	139.882	ug/l	99
36) 1,1-Dichloropropene	7.823	75	291531	138.903	ug/l	99
37) Ethyl Acetate	6.970	43	142431	153.172	ug/l	98
38) Carbon Tetrachloride	7.805	117	351898	144.677	ug/l	100
39) Methylcyclohexane	9.097	83	378742	140.620	ug/l	97
40) Benzene	8.067	78	895989	139.195	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019076.D
Acq On : 15 Aug 2024 19:50
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 16 05:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.207	41	67040m	139.430	ug/l		
42) 1,2-Dichloroethane	8.146	62	246305	141.697	ug/l		97
43) Isopropyl Acetate	8.183	43	277992	147.823	ug/l	#	83
44) Trichloroethene	8.853	130	246280	137.120	ug/l		99
45) 1,2-Dichloropropane	9.134	63	199830	139.335	ug/l		99
46) Dibromomethane	9.219	93	134044	144.103	ug/l		99
47) Bromodichloromethane	9.414	83	329329	144.307	ug/l		98
48) Methyl methacrylate	9.213	41	133108	158.820	ug/l		88
49) 1,4-Dioxane	9.219	88	33063	2934.221	ug/l	#	93
51) 4-Methyl-2-Pentanone	9.993	43	747067	748.465	ug/l		95
52) Toluene	10.164	92	604923	143.165	ug/l		97
53) t-1,3-Dichloropropene	10.390	75	294368	155.494	ug/l		98
54) cis-1,3-Dichloropropene	9.847	75	336952	147.999	ug/l	#	89
55) 1,1,2-Trichloroethane	10.566	97	173865	145.193	ug/l		97
56) Ethyl methacrylate	10.432	69	245714	156.766	ug/l	#	86
57) 1,3-Dichloropropane	10.713	76	277556	142.185	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	568743	764.886	ug/l		96
59) 2-Hexanone	10.755	43	536331	782.124	ug/l		92
60) Dibromochloromethane	10.908	129	243628	149.375	ug/l		99
61) 1,2-Dibromoethane	11.012	107	173497	149.902	ug/l		99
64) Tetrachloroethene	10.640	164	245327	137.299	ug/l		96
65) Chlorobenzene	11.438	112	667918	141.896	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.511	131	244749	147.855	ug/l		98
67) Ethyl Benzene	11.518	91	1218665	149.165	ug/l		98
68) m/p-Xylenes	11.627	106	969919	299.196	ug/l		99
69) o-Xylene	11.950	106	442508	147.403	ug/l		100
70) Styrene	11.969	104	755740	147.626	ug/l		97
71) Bromoform	12.133	173	146246	154.552	ug/l	#	98
73) Isopropylbenzene	12.255	105	1140578	143.956	ug/l		100
74) N-amyl acetate	12.072	43	272730	157.858	ug/l		91
75) 1,1,2,2-Tetrachloroethane	12.505	83	192397	136.399	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	135383m	137.884	ug/l		
77) Bromobenzene	12.530	156	270284	142.045	ug/l		97
78) n-propylbenzene	12.597	91	1317217	139.070	ug/l		98
79) 2-Chlorotoluene	12.676	91	745586	140.408	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	910505	141.063	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	62454	151.297	ug/l		87
82) 4-Chlorotoluene	12.773	91	770274	139.426	ug/l		99
83) tert-Butylbenzene	12.999	119	839485	140.837	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	912240	141.806	ug/l		99
85) sec-Butylbenzene	13.176	105	1184859	136.405	ug/l		99
86) p-Isopropyltoluene	13.292	119	1011209	141.728	ug/l		97
87) 1,3-Dichlorobenzene	13.285	146	524755	139.839	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	506880	135.885	ug/l		99
89) n-Butylbenzene	13.615	91	903193	138.847	ug/l		99
90) Hexachloroethane	13.877	117	199647	141.965	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	455126	137.900	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	30394	146.473	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	278119	149.428	ug/l		97
94) Hexachlorobutadiene	15.023	225	137395	141.724	ug/l		98
95) Naphthalene	15.145	128	550189	165.633	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	239960	152.861	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019076.D
Acq On : 15 Aug 2024 19:50
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 05:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

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

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

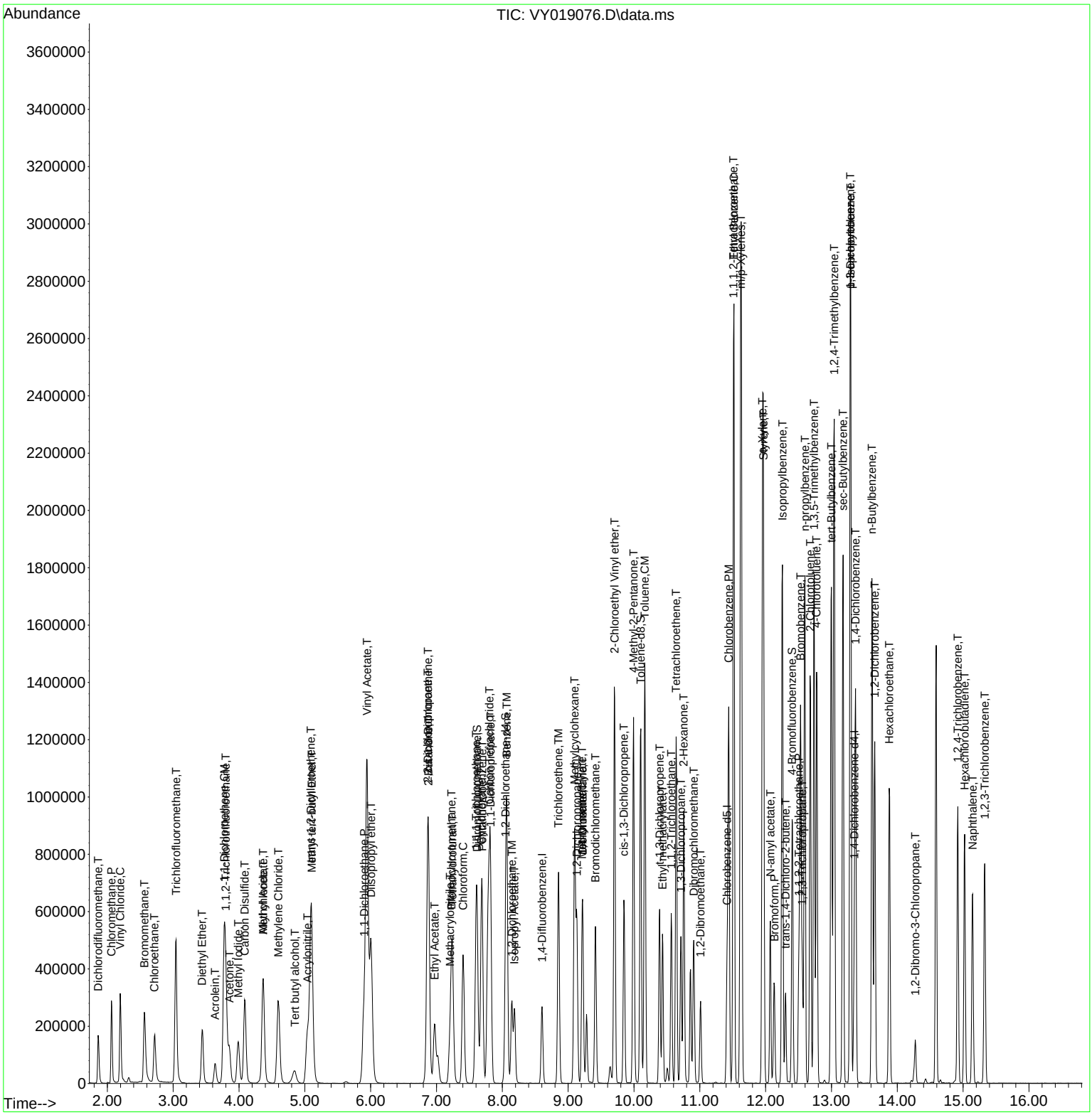
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019076.D
Acq On : 15 Aug 2024 19:50
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

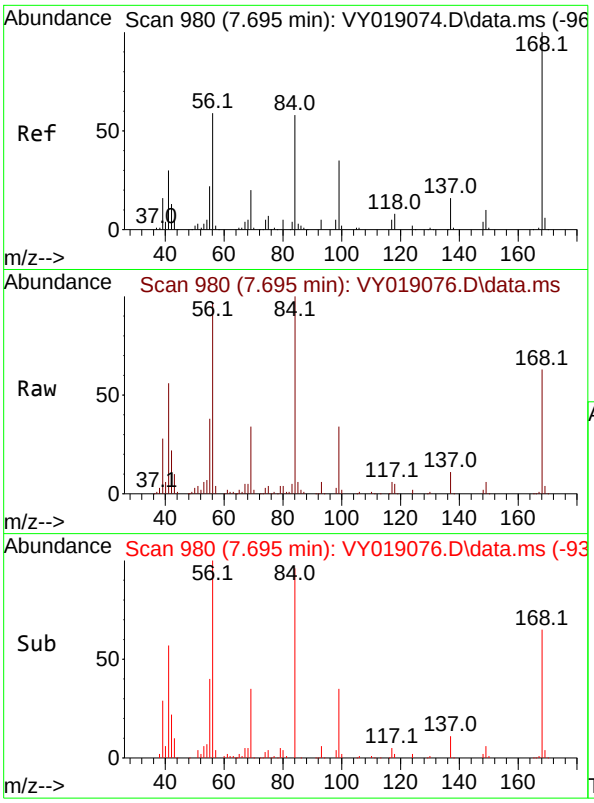
Quant Time: Aug 16 05:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:48:12 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

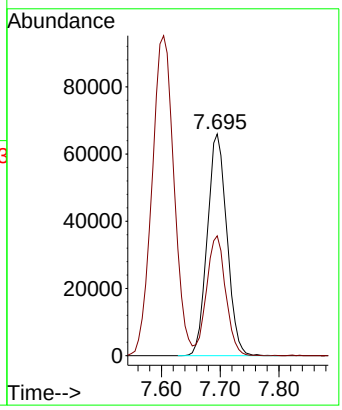




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:168 Resp: 15230

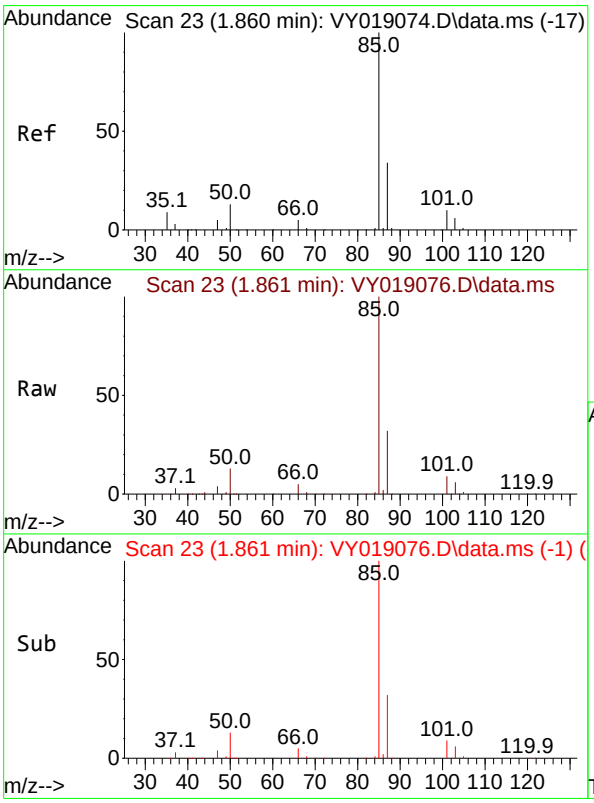
Ion	Ratio	Lower	Upper
168	100		
99	53.9	39.1	58.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

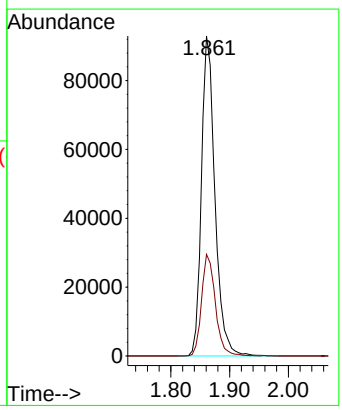
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

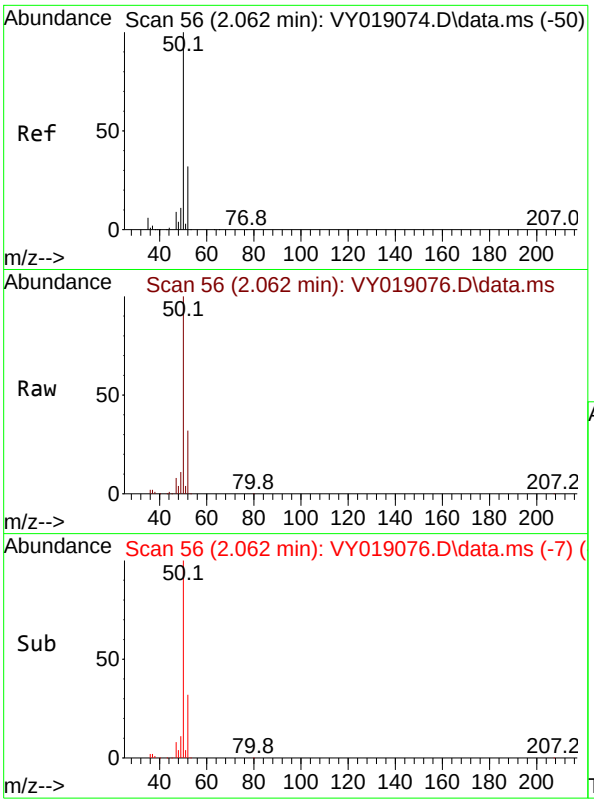


#2
Dichlorodifluoromethane
Concen: 132.748 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 85 Resp: 148333

Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.0	48.0

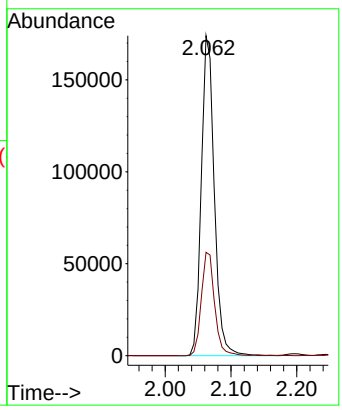




#3
Chloromethane
Concen: 118.689 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 50 Resp: 23905

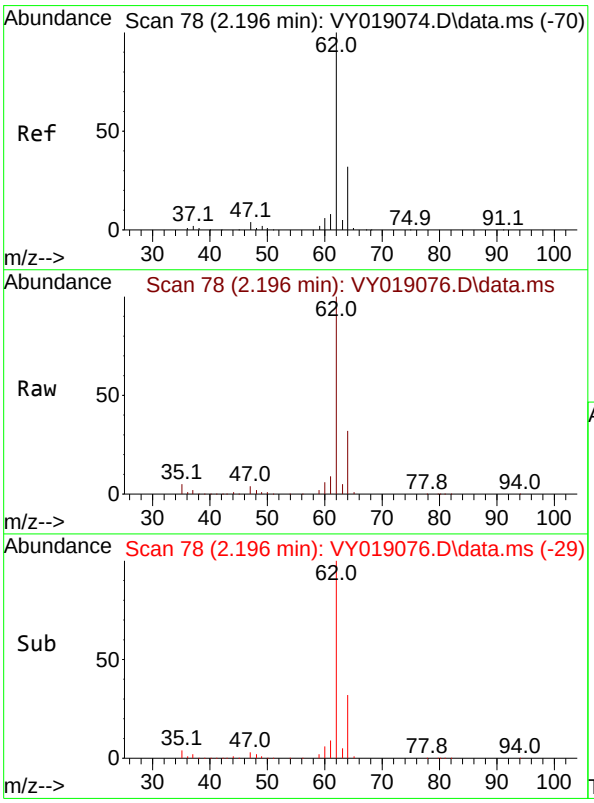
Ion	Ratio	Lower	Upper
50	100		
52	32.3	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

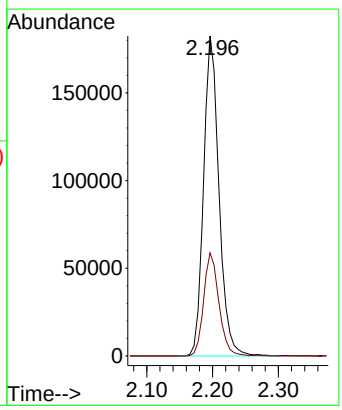
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

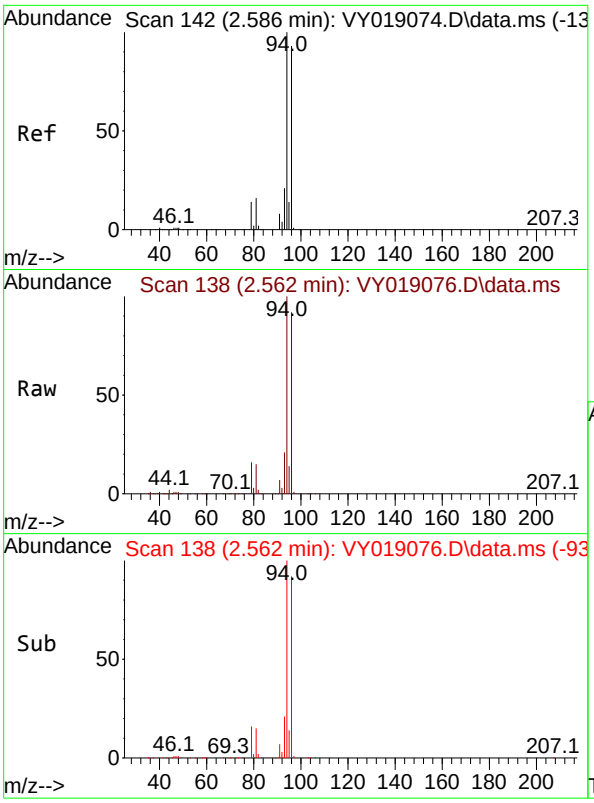


#4
Vinyl Chloride
Concen: 119.484 ug/l
RT: 2.196 min Scan# 78
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 62 Resp: 297256

Ion	Ratio	Lower	Upper
62	100		
64	32.2	26.1	39.1

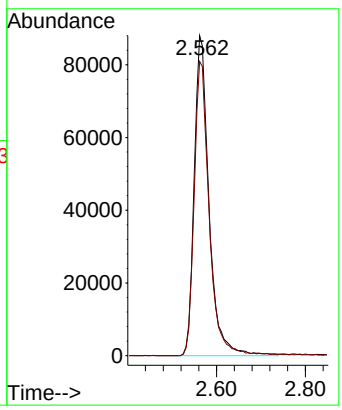




#5
Bromomethane
Concen: 145.411 ug/l
RT: 2.562 min Scan# 1
Delta R.T. -0.024 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 94 Resp: 20374

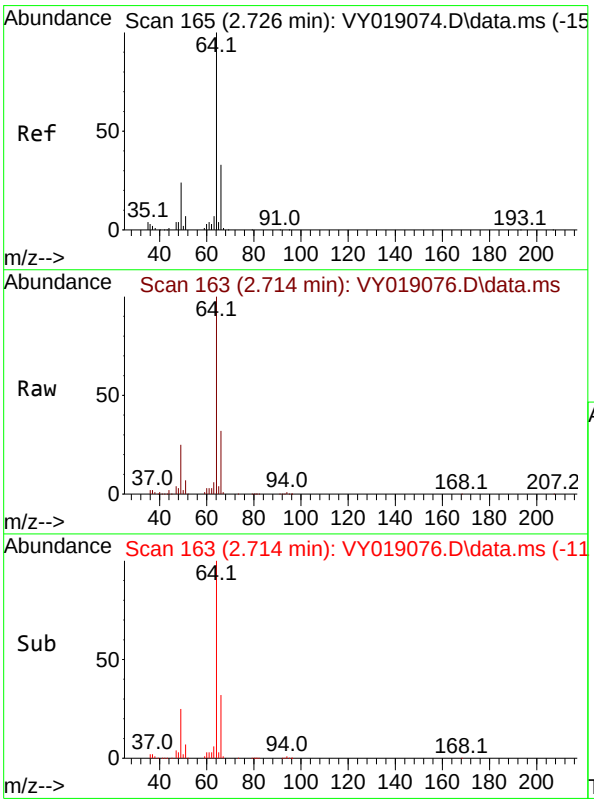
Ion	Ratio	Lower	Upper
94	100		
96	91.9	74.1	111.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

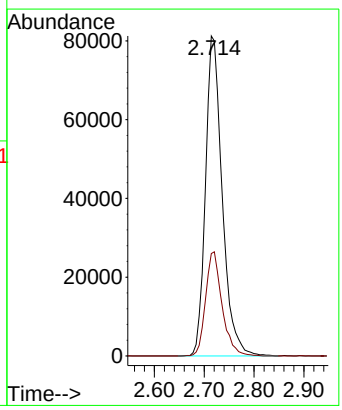
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

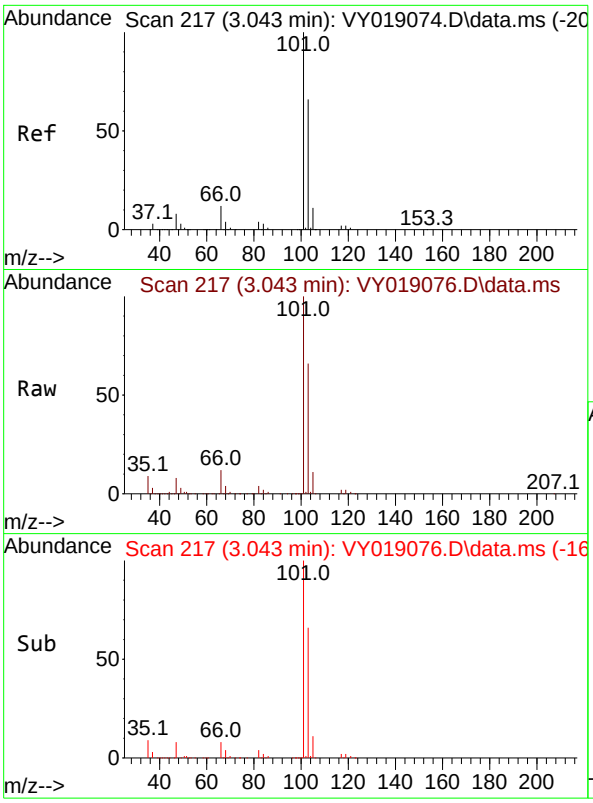


#6
Chloroethane
Concen: 149.351 ug/l
RT: 2.714 min Scan# 163
Delta R.T. -0.012 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 64 Resp: 189405

Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.1	39.1

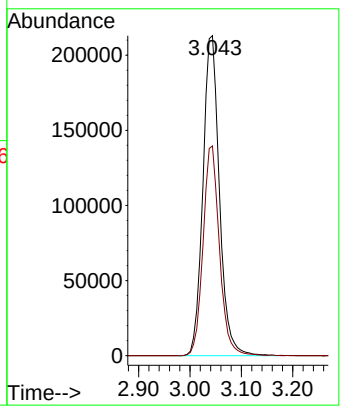




#7
Trichlorofluoromethane
Concen: 126.348 ug/l
RT: 3.043 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:101 Resp: 47523

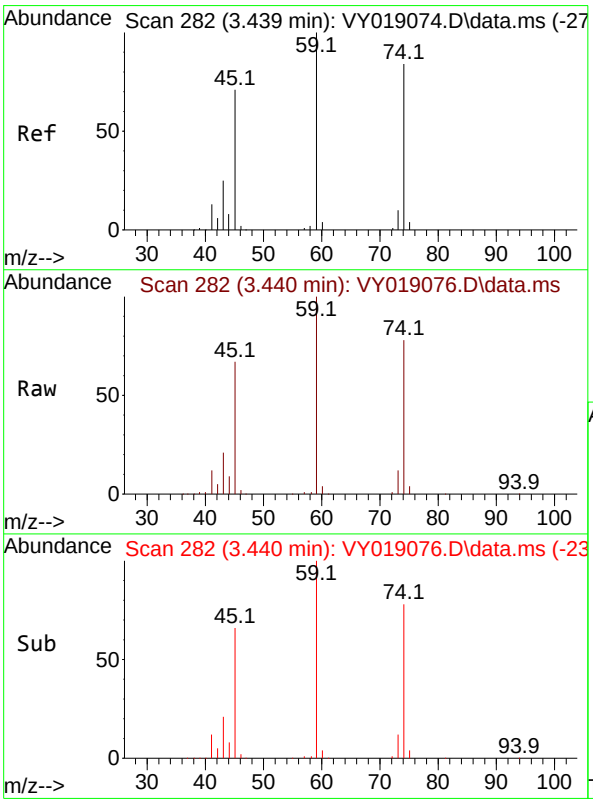
Ion	Ratio	Lower	Upper
101	100		
103	65.5	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

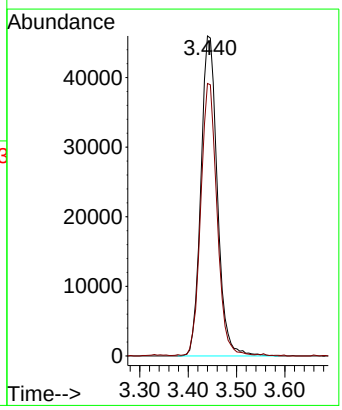
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

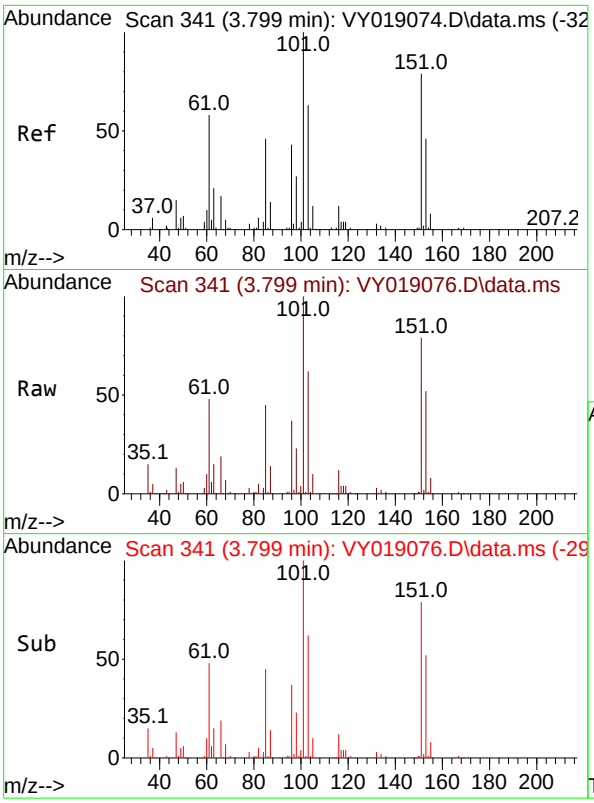


#8
Diethyl Ether
Concen: 133.889 ug/l
RT: 3.440 min Scan# 282
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 74 Resp: 108701

Ion	Ratio	Lower	Upper
74	100		
45	84.1	41.3	124.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 127.878 ug/l
RT: 3.799 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

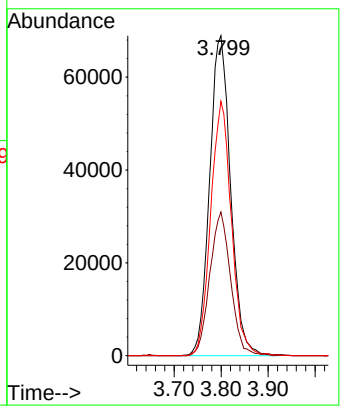
Tgt Ion:101 Resp: 21383

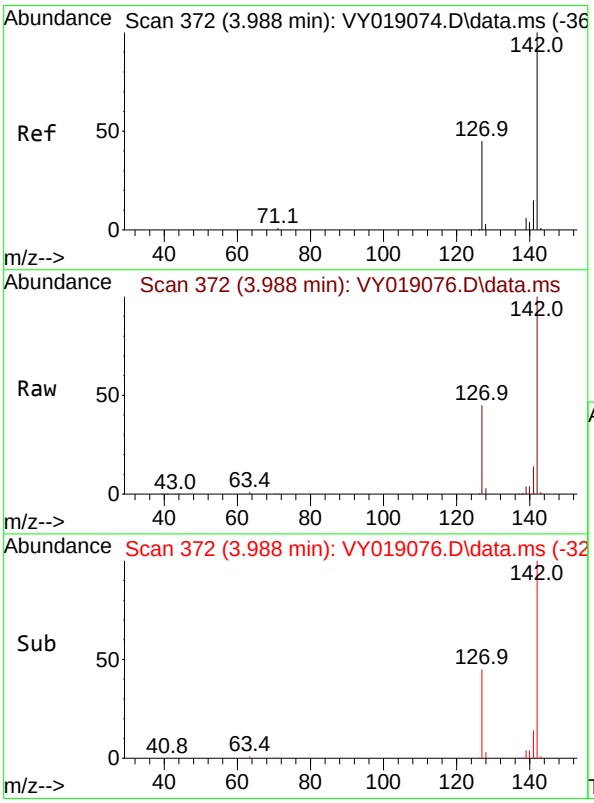
Ion	Ratio	Lower	Upper
101	100		
85	44.5	34.5	51.7
151	78.5	61.7	92.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

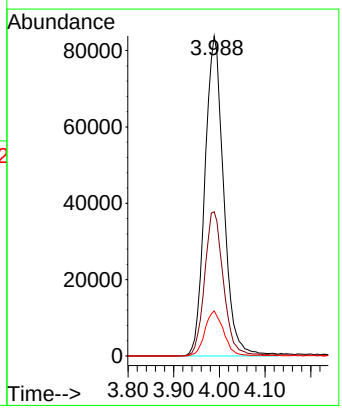


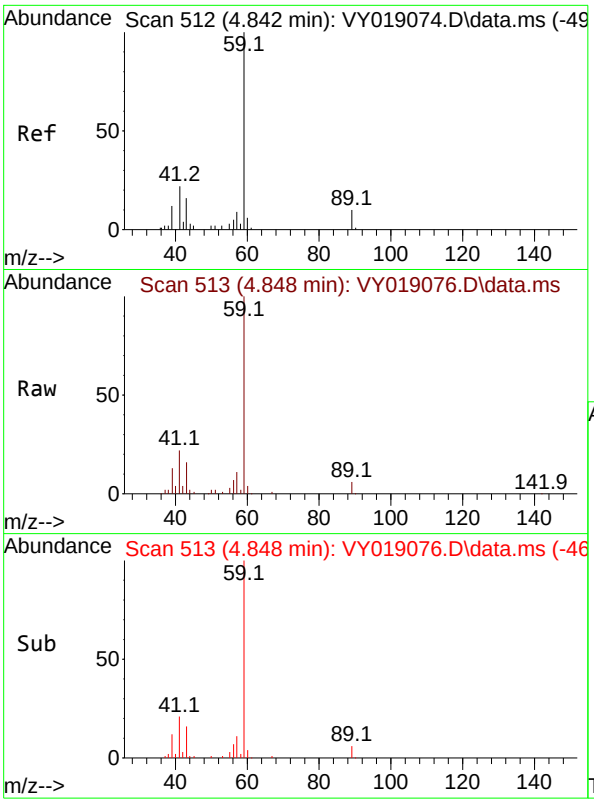


#10
Methyl Iodide
Concen: 146.018 ug/l
RT: 3.988 min Scan# 372
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:142 Resp: 239325

Ion	Ratio	Lower	Upper
142	100		
127	45.4	32.8	49.2
141	14.0	11.4	17.2

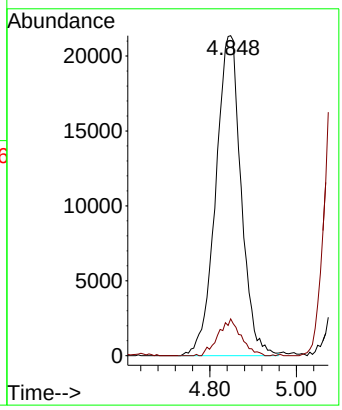




#11
Tert butyl alcohol
Concen: 753.093 ug/l
RT: 4.848 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 59 Resp: 8711

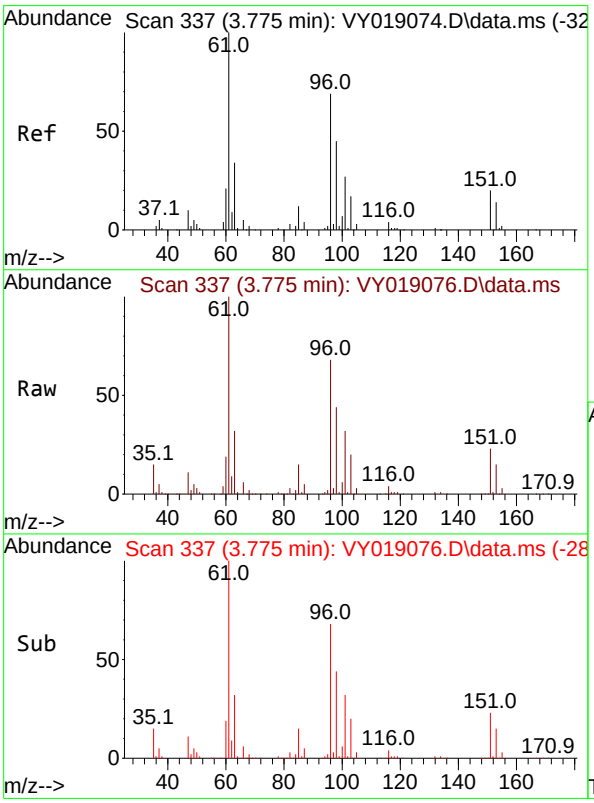
Ion	Ratio	Lower	Upper
59	100		
57	10.4	3.0	4.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

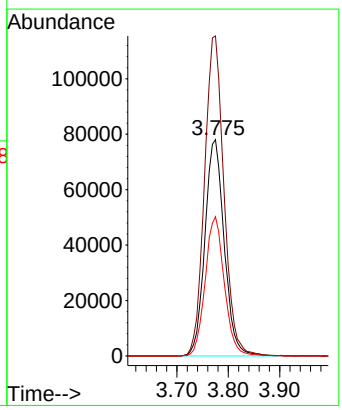
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

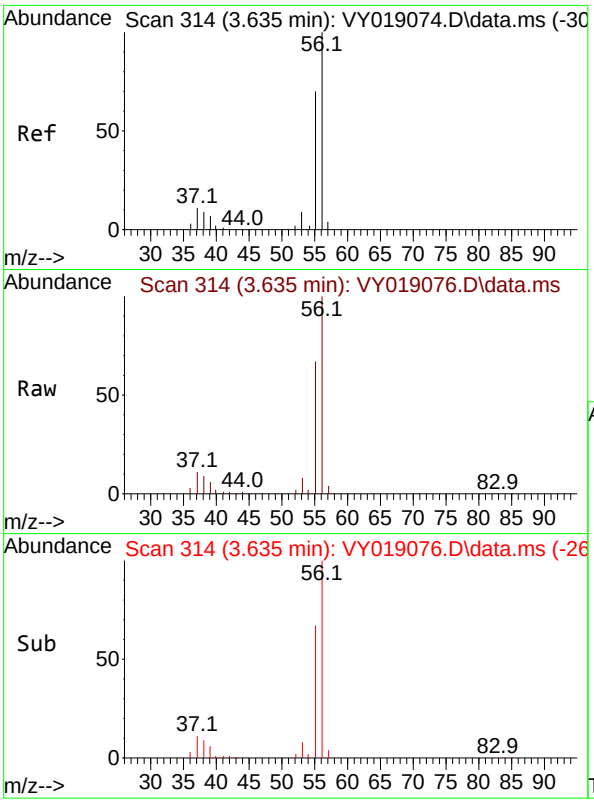


#12
1,1-Dichloroethene
Concen: 134.243 ug/l
RT: 3.775 min Scan# 337
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 96 Resp: 203941

Ion	Ratio	Lower	Upper
96	100		
61	147.9	114.6	171.8
98	64.4	50.8	76.2

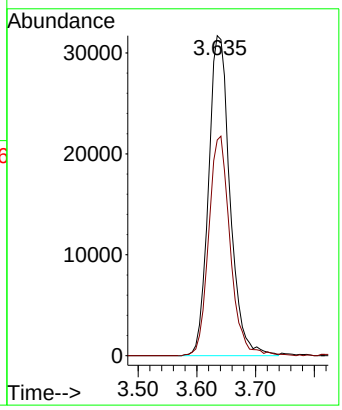




#13
Acrolein
Concen: 740.418 ug/l
RT: 3.635 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 56 Resp: 8046

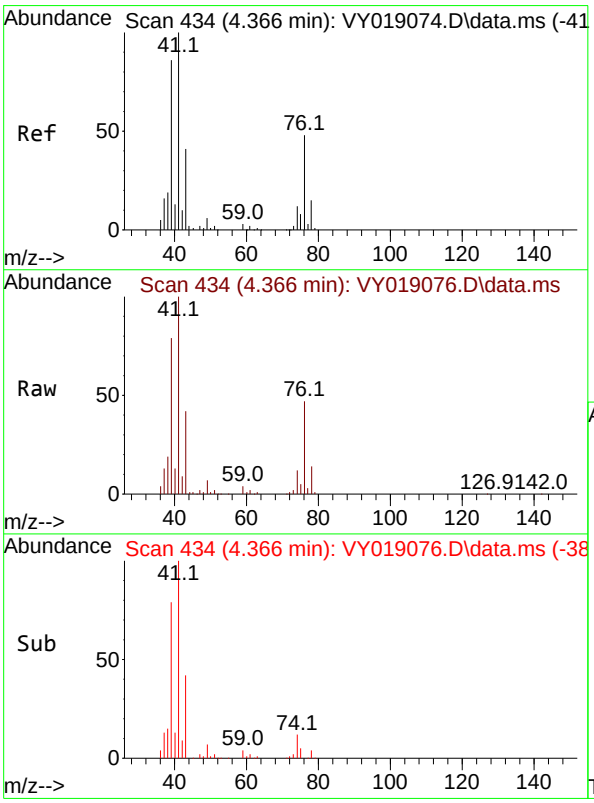
Ion	Ratio	Lower	Upper
56	100		
55	68.7	55.7	83.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

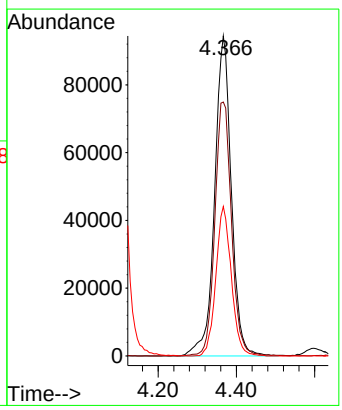
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

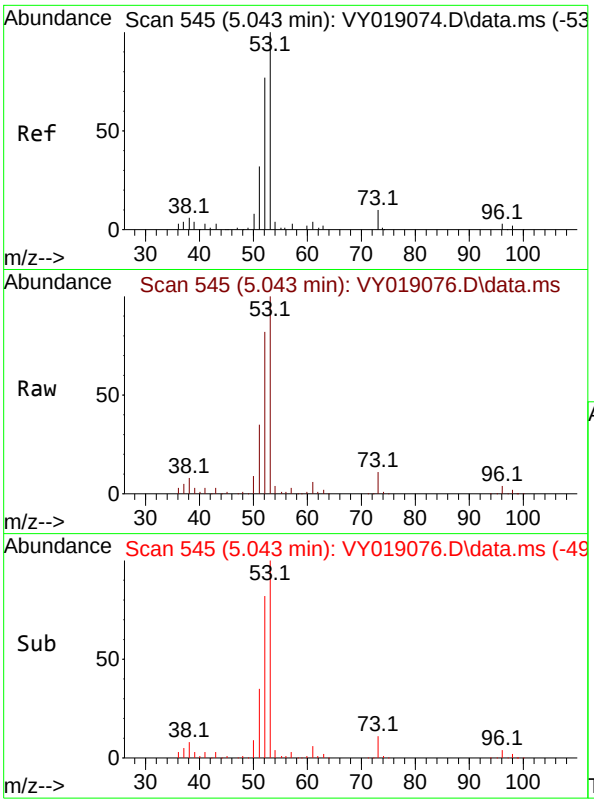


#14
Allyl chloride
Concen: 138.577 ug/l
RT: 4.366 min Scan# 434
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 41 Resp: 279902

Ion	Ratio	Lower	Upper
41	100		
39	79.3	58.3	87.5
76	43.2	39.0	58.6





#15
Acrylonitrile
Concen: 698.766 ug/l
RT: 5.043 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

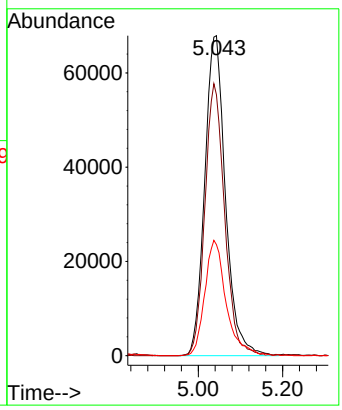
Tgt Ion: 53 Resp: 23212

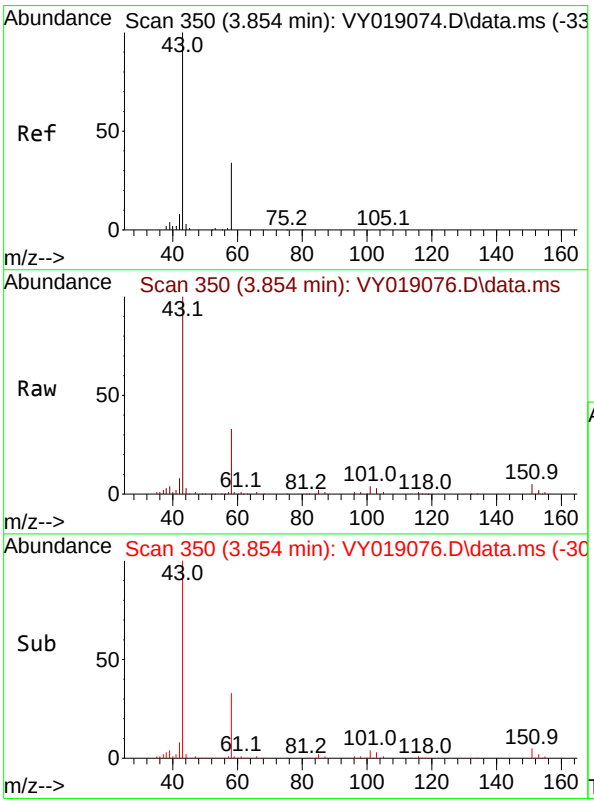
Ion	Ratio	Lower	Upper
53	100		
52	81.0	64.7	97.1
51	37.1	28.4	42.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

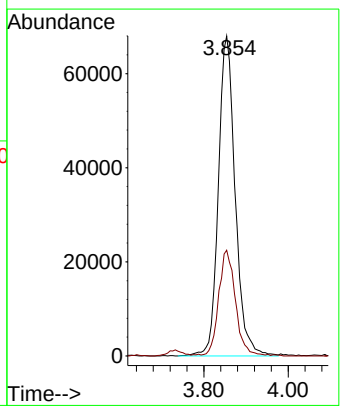


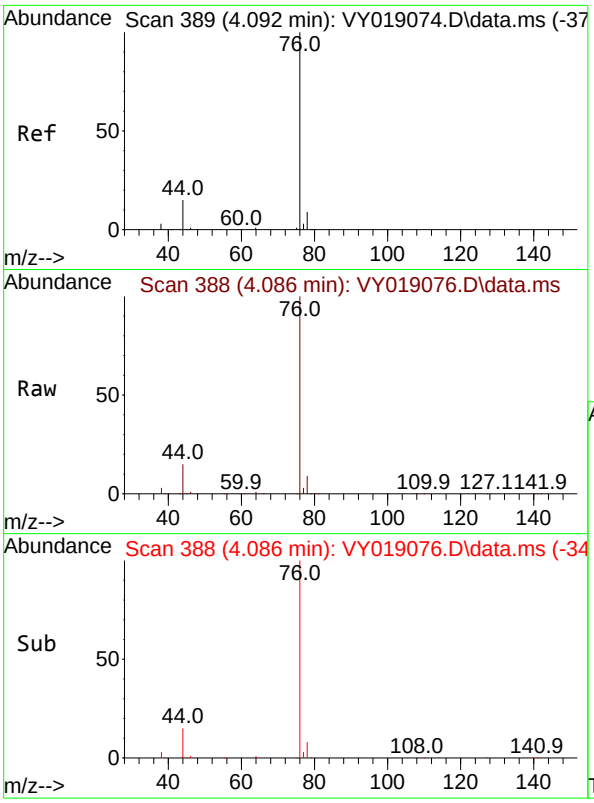


#16
Acetone
Concen: 662.362 ug/l
RT: 3.854 min Scan# 350
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 43 Resp: 187534

Ion	Ratio	Lower	Upper
43	100		
58	32.8	31.7	47.5





#17
Carbon Disulfide
Concen: 135.124 ug/l
RT: 4.086 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

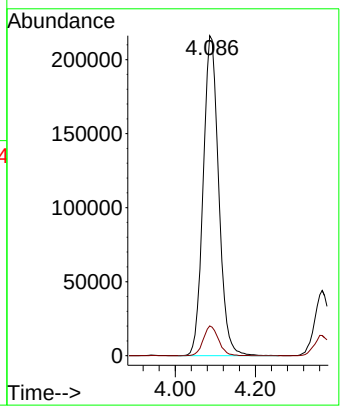
Tgt Ion: 76 Resp: 57900

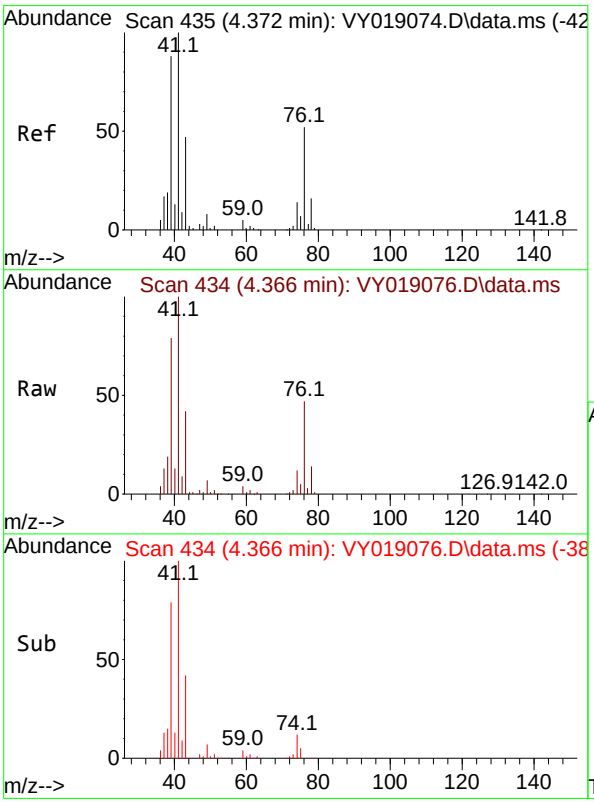
Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.8	10.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

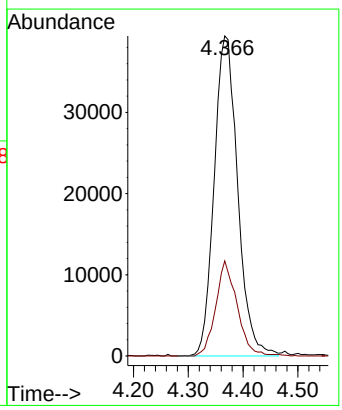


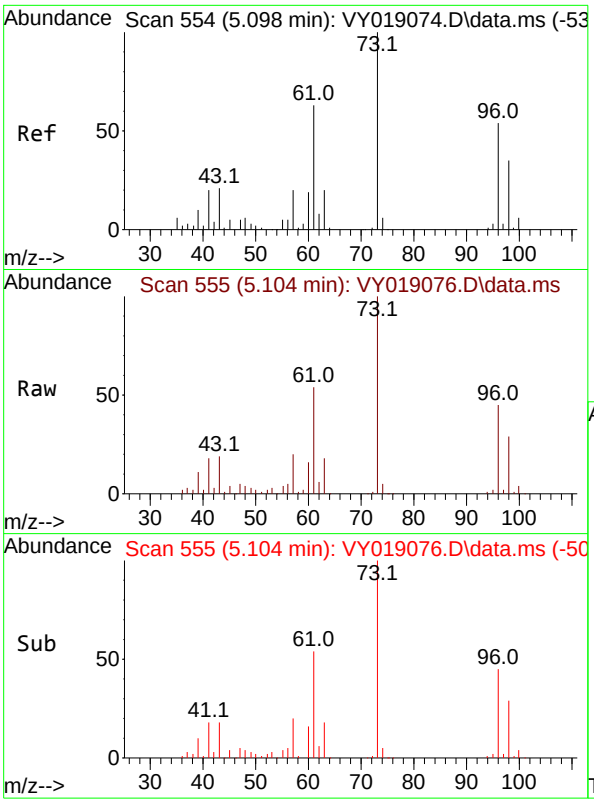


#18
Methyl Acetate
Concen: 135.203 ug/l
RT: 4.366 min Scan# 434
Delta R.T. -0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 43 Resp: 117485

Ion	Ratio	Lower	Upper
43	100		
74	27.1	23.3	34.9

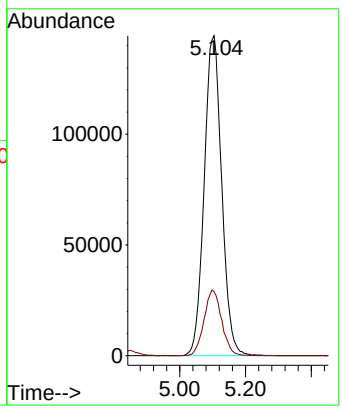




#19
Methyl tert-butyl Ether
Concen: 145.216 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 73 Resp: 53485

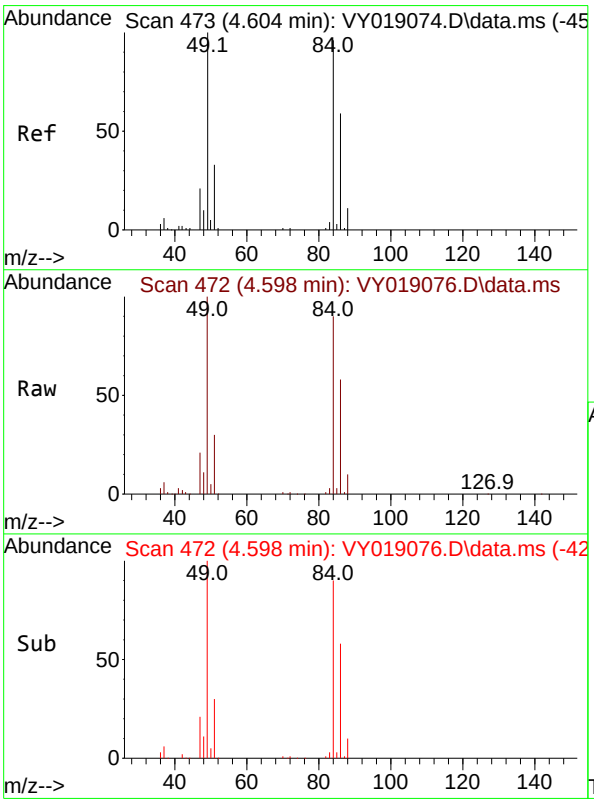
Ion	Ratio	Lower	Upper
73	100		
57	20.0	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

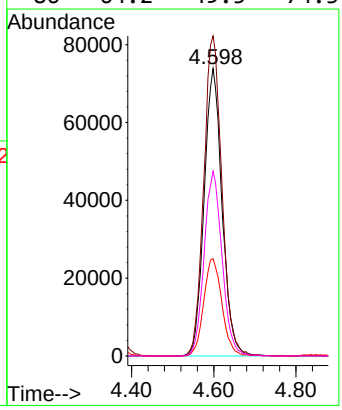
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

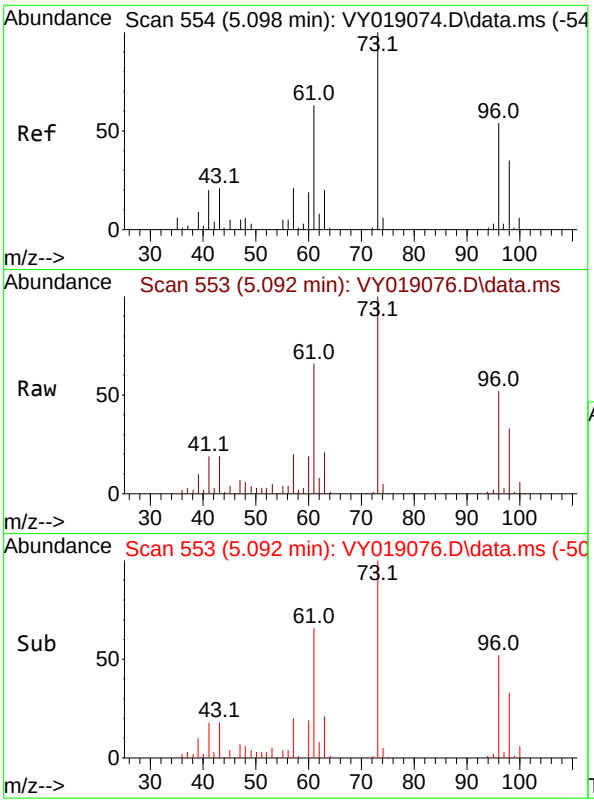


#20
Methylene Chloride
Concen: 147.221 ug/l
RT: 4.598 min Scan# 472
Delta R.T. -0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 84 Resp: 223901

Ion	Ratio	Lower	Upper
84	100		
49	111.4	84.4	126.6
51	33.8	26.0	39.0
86	64.2	49.5	74.3

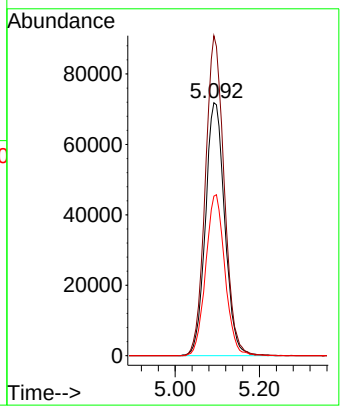




#21
trans-1,2-Dichloroethene
Concen: 134.329 ug/l
RT: 5.092 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 96 Resp: 22799

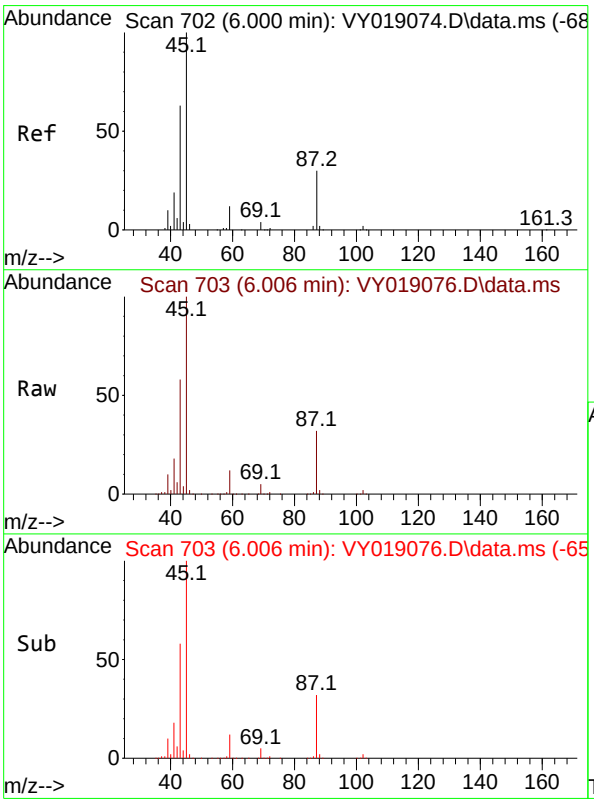
Ion	Ratio	Lower	Upper
96	100		
61	126.5	97.5	146.3
98	63.0	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

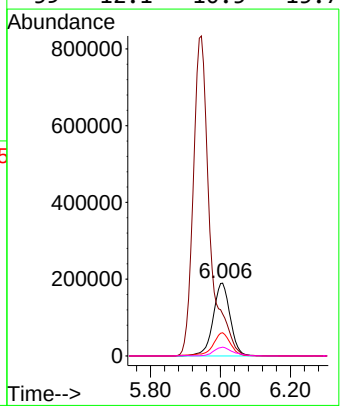
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

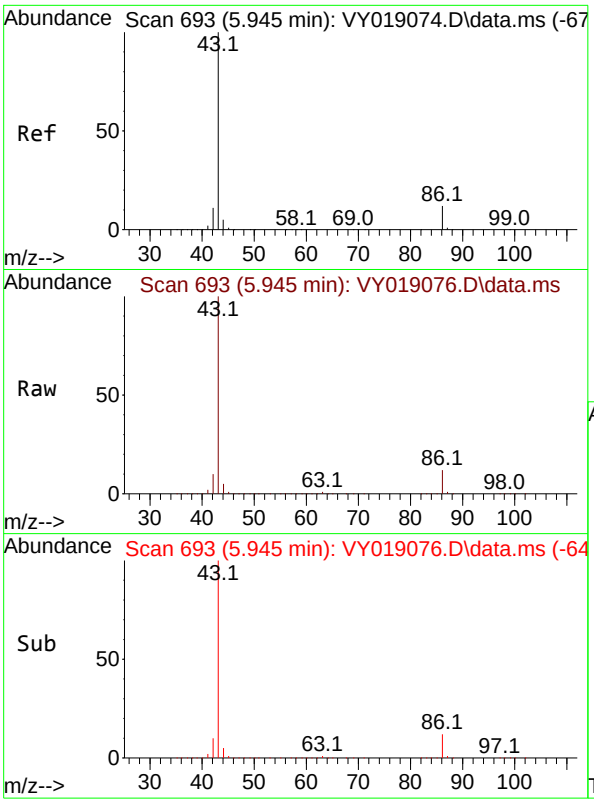


#22
Diisopropyl ether
Concen: 139.078 ug/l
RT: 6.006 min Scan# 703
Delta R.T. 0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 45 Resp: 643082

Ion	Ratio	Lower	Upper
45	100		
43	57.5	42.2	63.2
87	31.8	25.0	37.6
59	12.1	10.5	15.7





#23
Vinyl Acetate
Concen: 741.086 ug/l
RT: 5.945 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

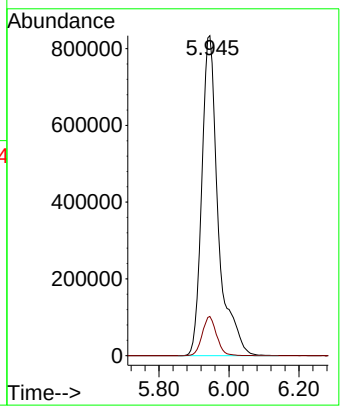
Tgt Ion: 43 Resp: 271297

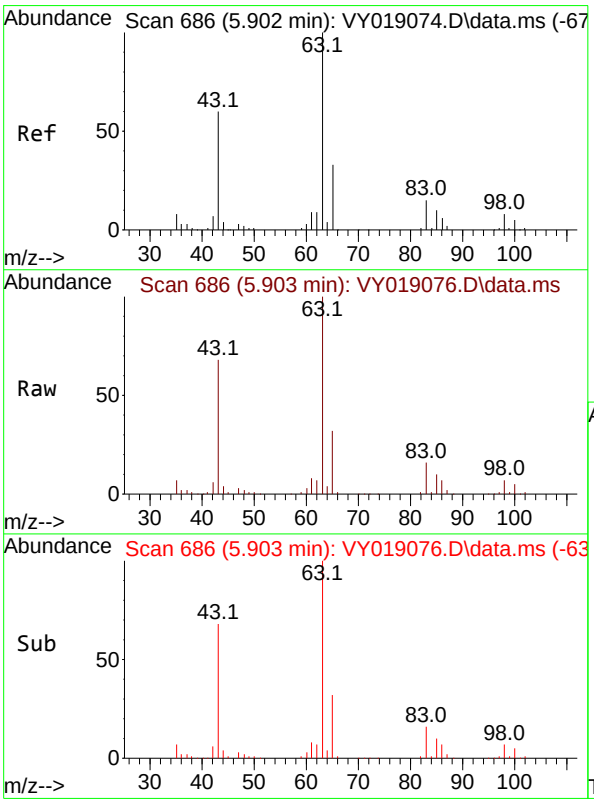
Ion	Ratio	Lower	Upper
43	100		
86	12.2	10.6	16.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

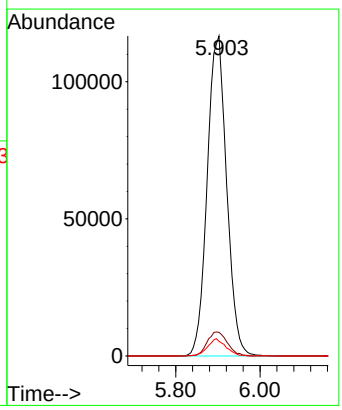


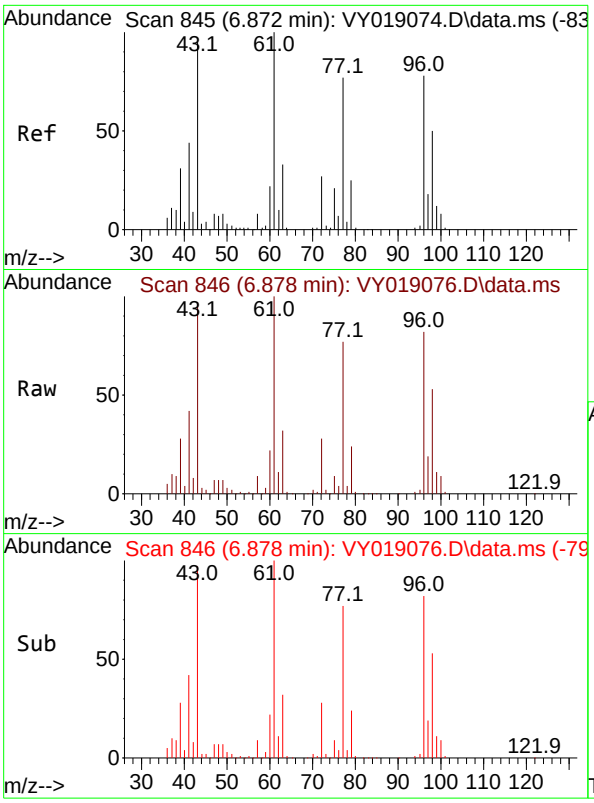


#24
1,1-Dichloroethane
Concen: 132.338 ug/l
RT: 5.903 min Scan# 686
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 63 Resp: 374219

Ion	Ratio	Lower	Upper
63	100		
98	7.4	4.0	12.2
100	4.6	2.6	8.0





#25
2-Butanone
Concen: 684.937 ug/l
RT: 6.878 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

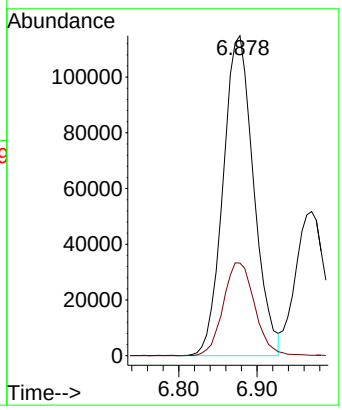
Tgt Ion: 43 Resp: 31231

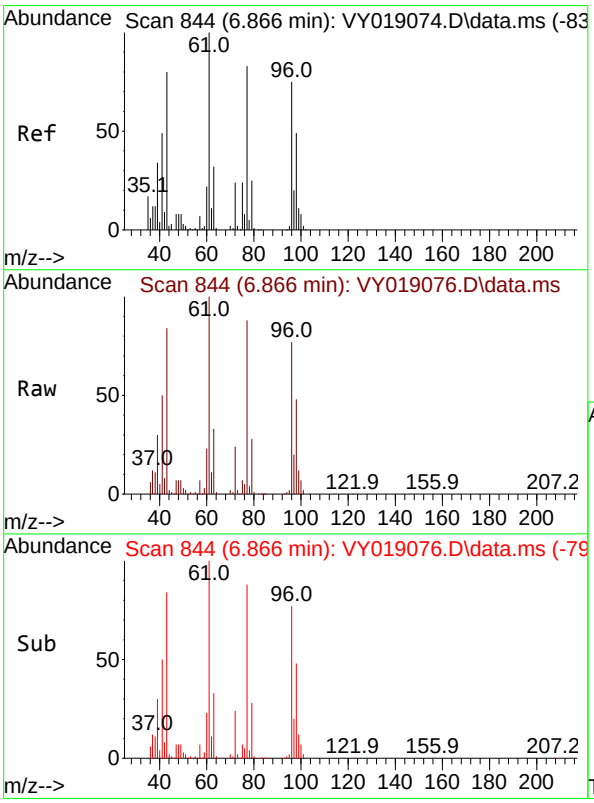
Ion	Ratio	Lower	Upper
43	100		
72	29.0	27.3	40.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

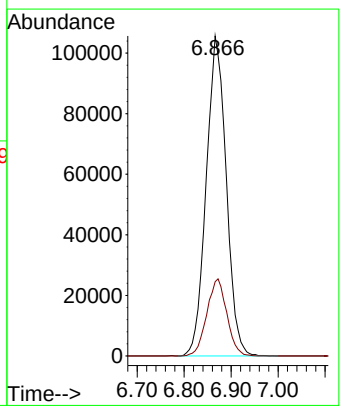


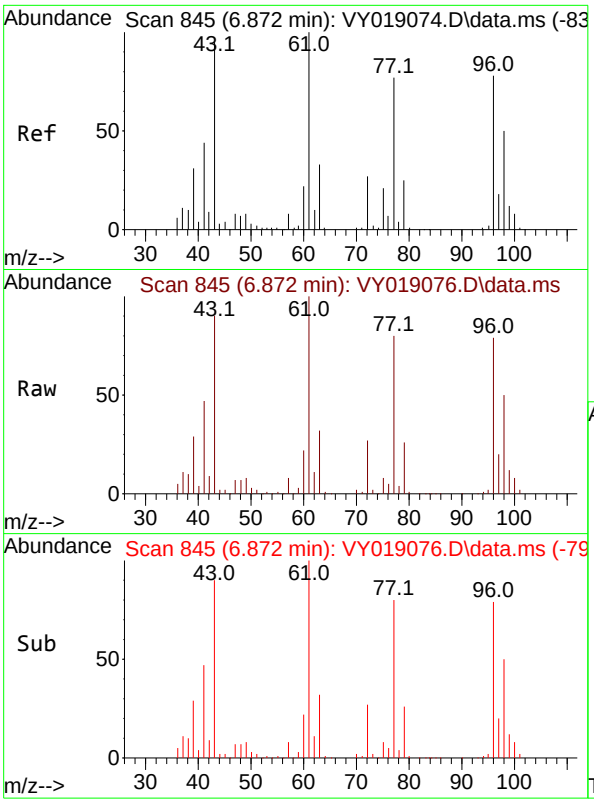


#26
2,2-Dichloropropane
Concen: 136.457 ug/l
RT: 6.866 min Scan# 844
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 77 Resp: 312468

Ion	Ratio	Lower	Upper
77	100		
97	24.1	12.0	36.1

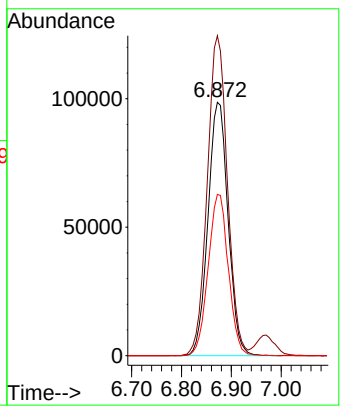




#27
cis-1,2-Dichloroethene
Concen: 138.321 ug/l
RT: 6.872 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 96 Resp: 27628

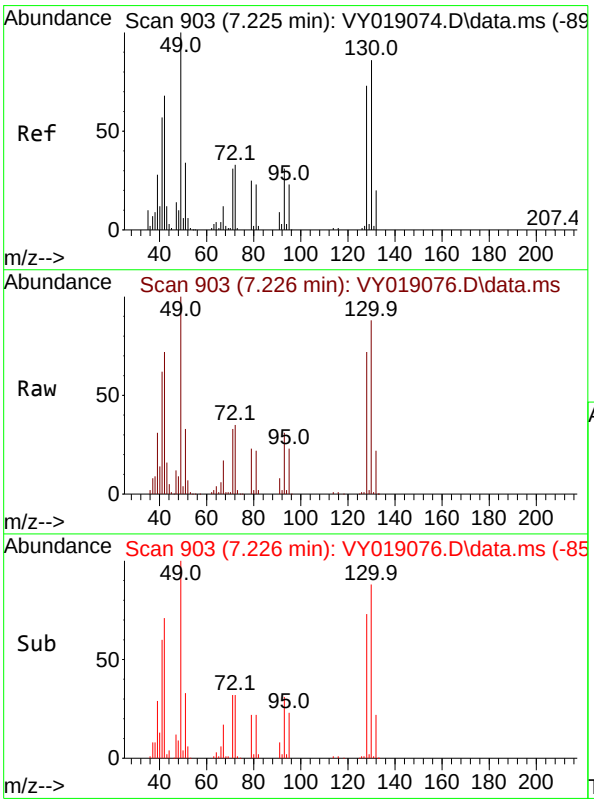
Ion	Ratio	Lower	Upper
96	100		
61	126.5	0.0	256.2
98	63.8	0.0	130.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

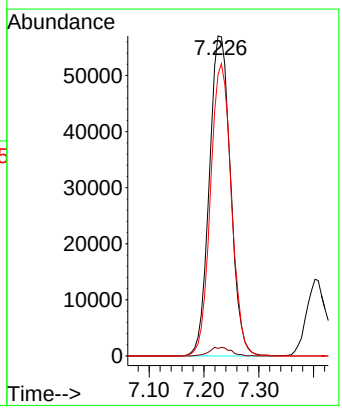
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

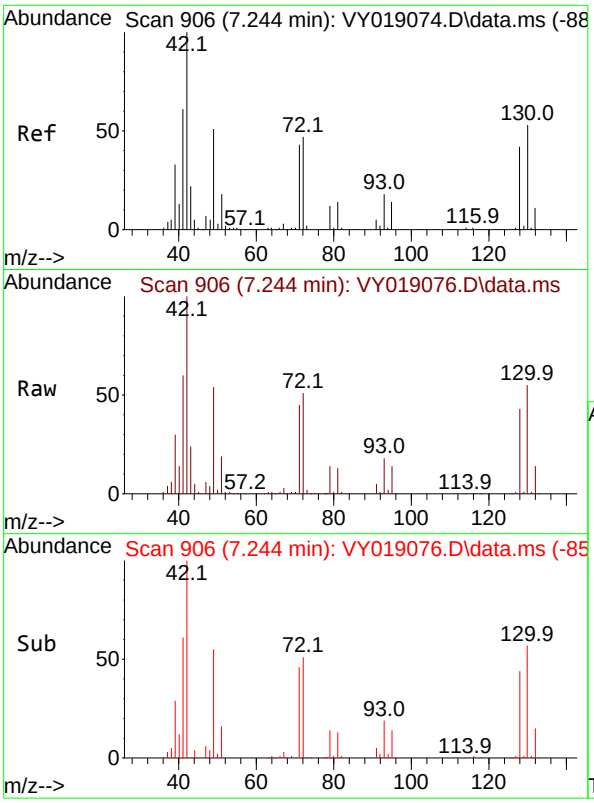


#28
Bromochloromethane
Concen: 129.242 ug/l
RT: 7.226 min Scan# 903
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 49 Resp: 153305

Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	4.6
130	89.7	72.7	109.1

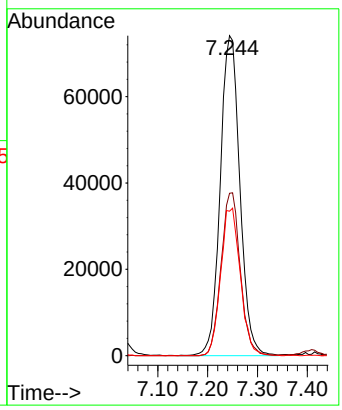




#29
Tetrahydrofuran
Concen: 691.822 ug/l
RT: 7.244 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 42 Resp: 20278

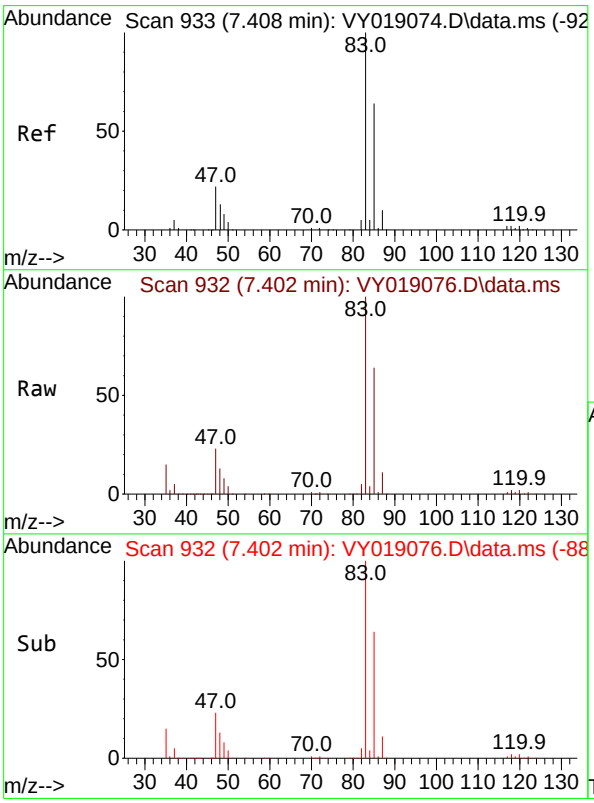
Ion	Ratio	Lower	Upper
42	100		
72	49.8	43.0	64.4
71	46.2	40.8	61.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

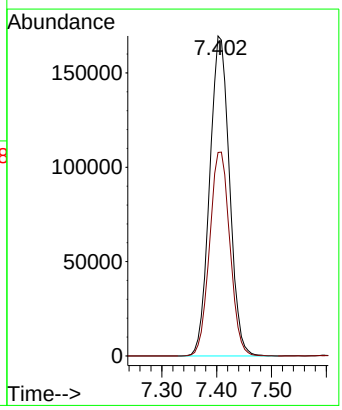
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

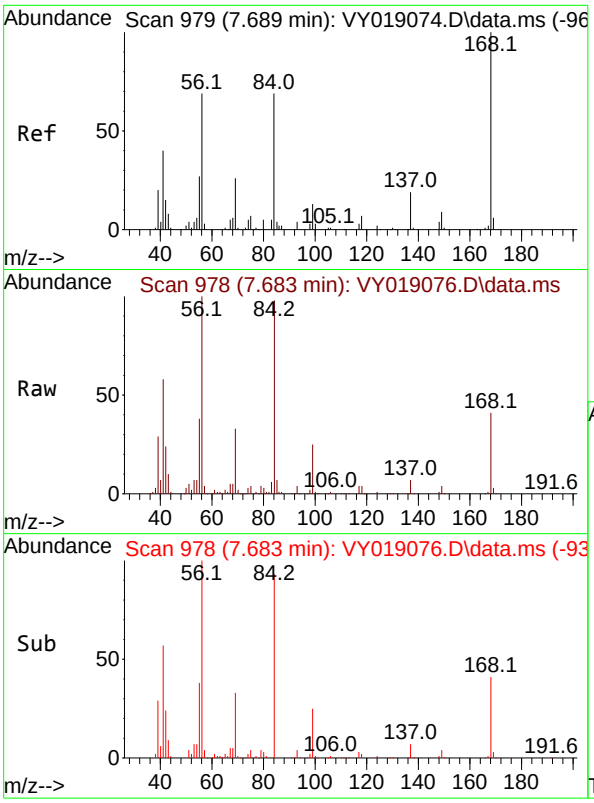


#30
Chloroform
Concen: 134.968 ug/l
RT: 7.402 min Scan# 932
Delta R.T. -0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 83 Resp: 425274

Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.2	78.4





#31
Cyclohexane
Concen: 146.017 ug/l
RT: 7.683 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

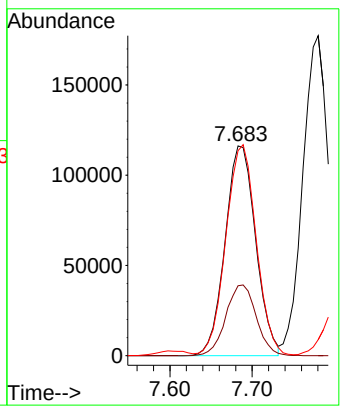
Tgt Ion: 56 Resp: 30092

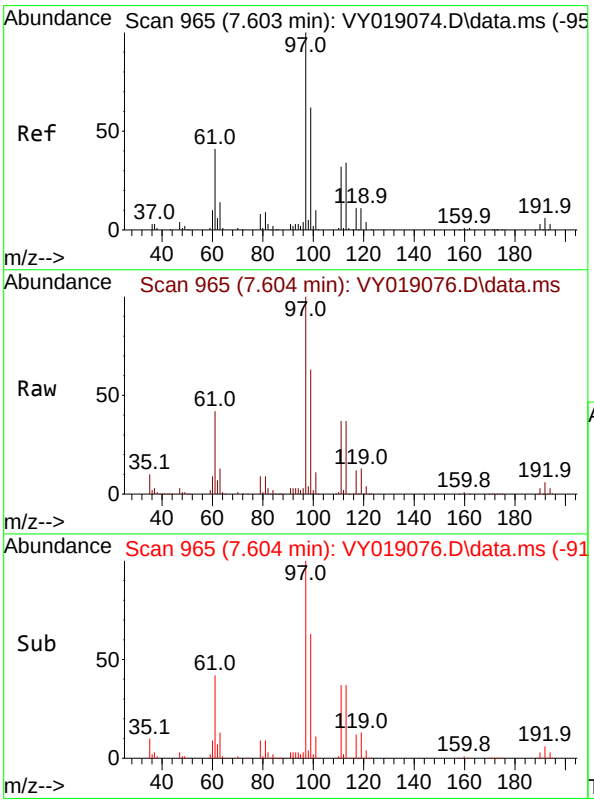
Ion	Ratio	Lower	Upper
56	100		
69	33.4	28.7	43.1
84	95.7	77.7	116.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

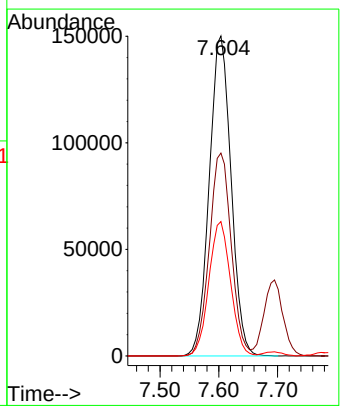


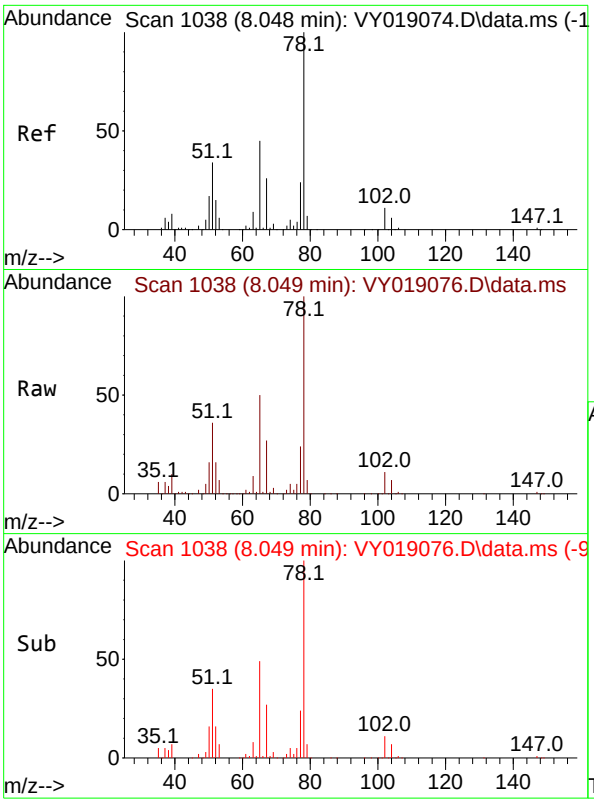


#32
1,1,1-Trichloroethane
Concen: 139.882 ug/l
RT: 7.604 min Scan# 965
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 97 Resp: 387346

Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.3	75.5
61	41.8	32.6	48.8

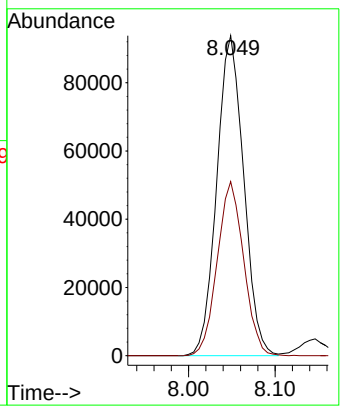




#33
1,2-Dichloroethane-d4
Concen: 132.675 ug/l
RT: 8.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 65 Resp: 20255

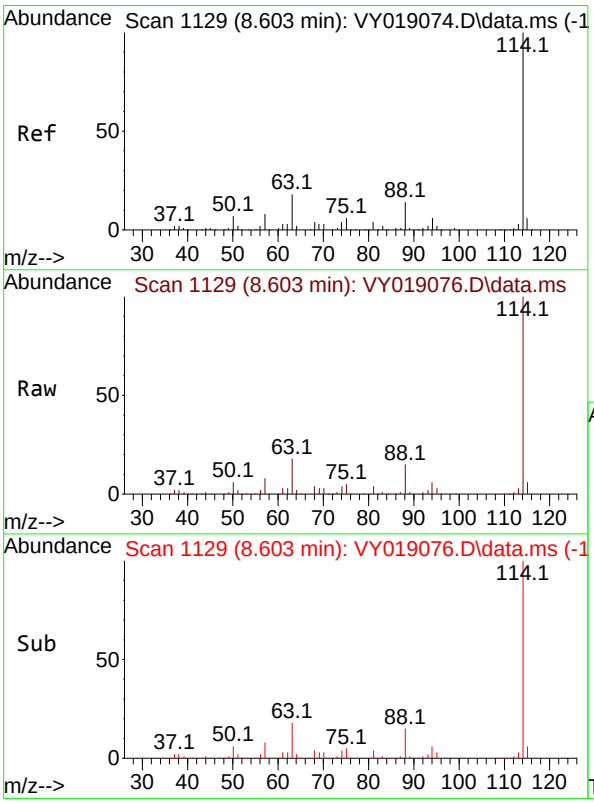
Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	109.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

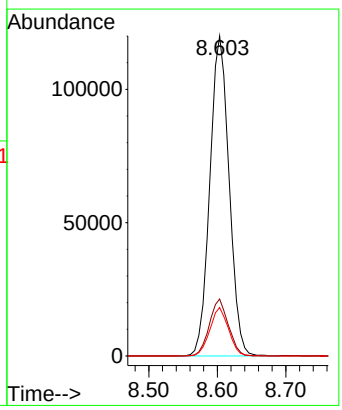
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

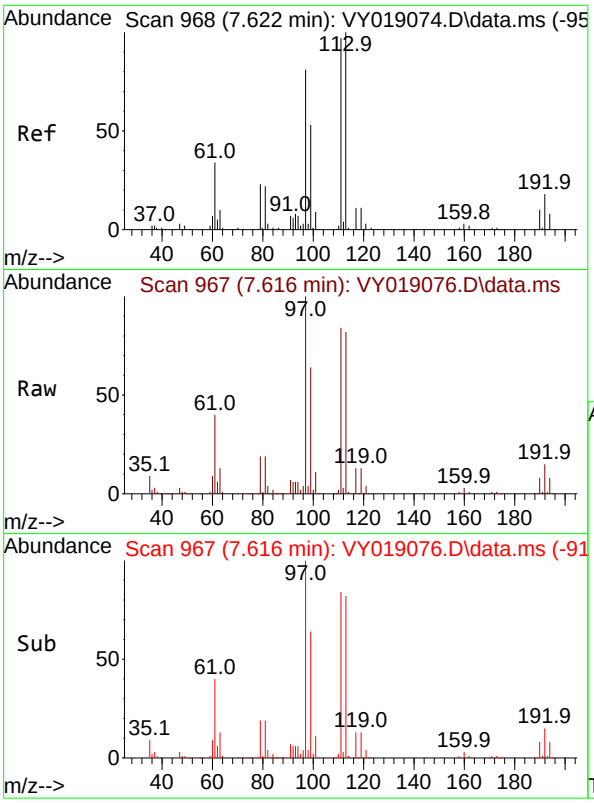


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.603 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:114 Resp: 233756

Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	35.0
88	15.2	0.0	27.2

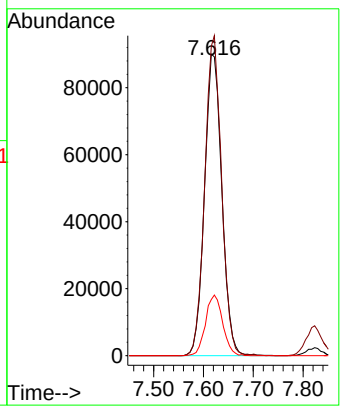




#35
Dibromofluoromethane
Concen: 142.256 ug/l
RT: 7.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:113 Resp: 21742

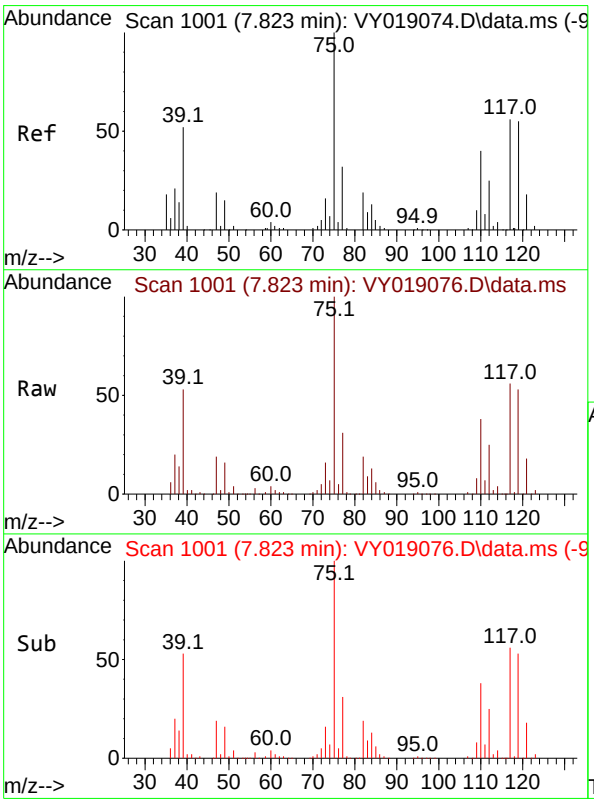
Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.2	123.4
192	19.9	15.9	23.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

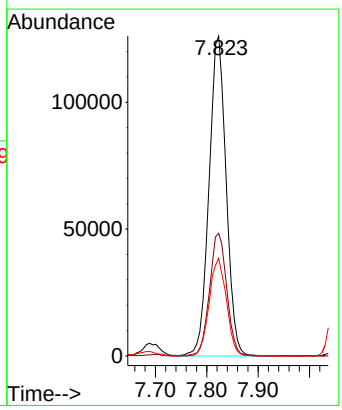
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

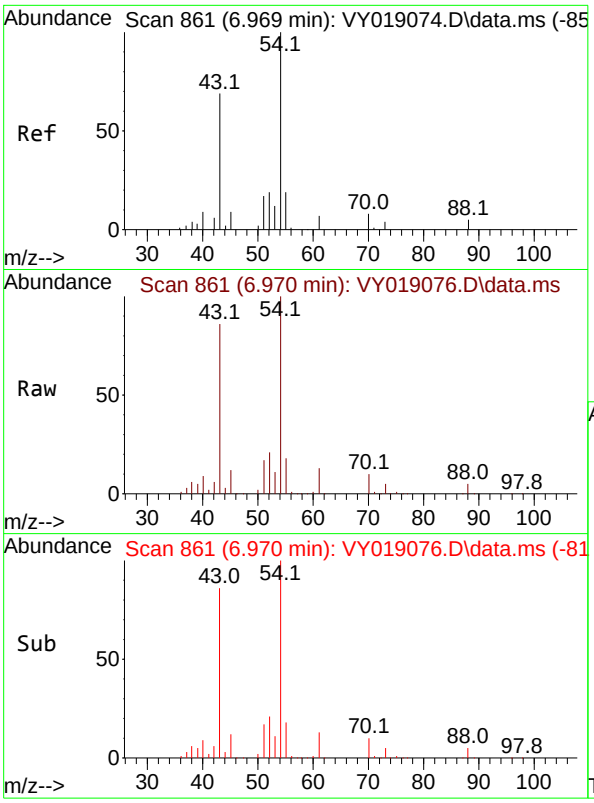


#36
1,1-Dichloropropene
Concen: 138.903 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 75 Resp: 291531

Ion	Ratio	Lower	Upper
75	100		
110	38.4	19.0	57.0
77	30.9	25.3	37.9

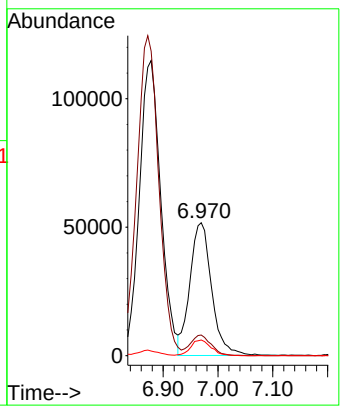




#37
Ethyl Acetate
Concen: 153.172 ug/l
RT: 6.970 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 43 Resp: 14243

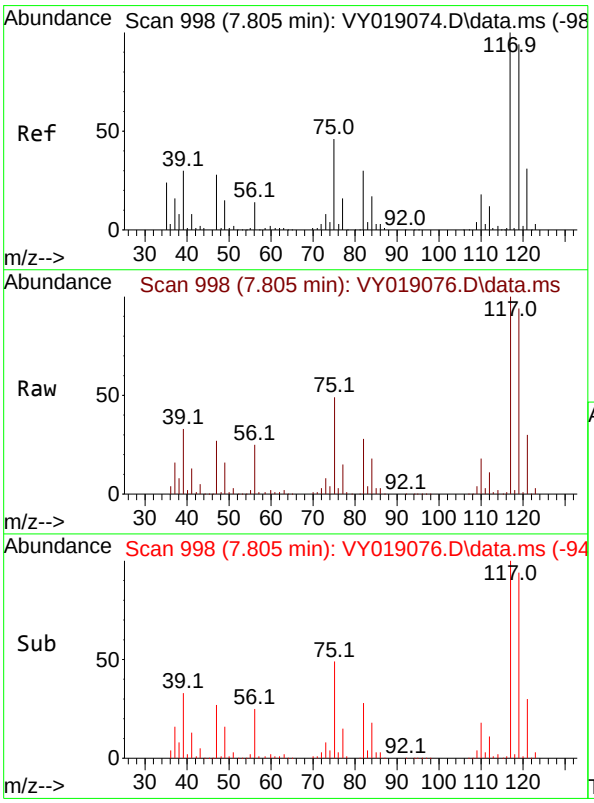
Ion	Ratio	Lower	Upper
43	100		
61	15.0	12.6	19.0
70	11.1	7.8	11.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

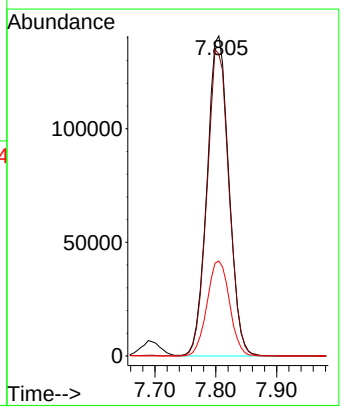
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

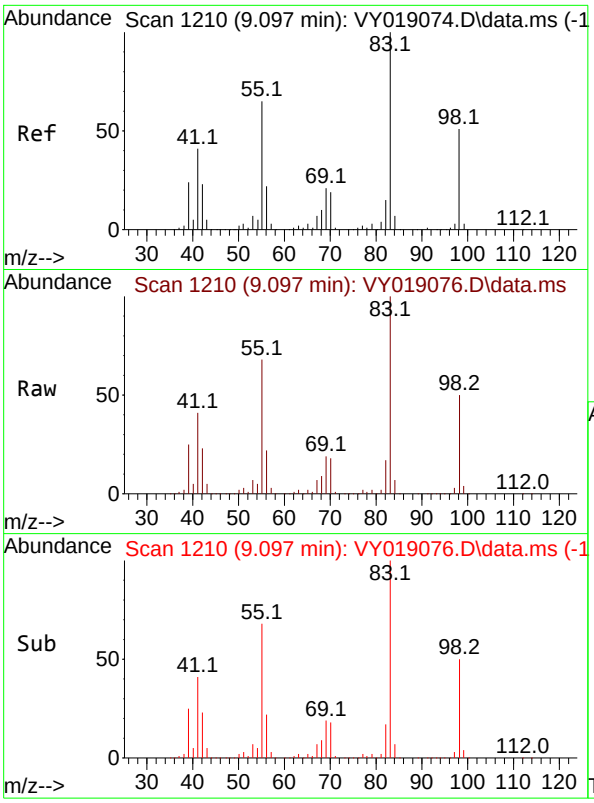


#38
Carbon Tetrachloride
Concen: 144.677 ug/l
RT: 7.805 min Scan# 998
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:117 Resp: 351898

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.8	113.6
121	29.6	24.0	36.0

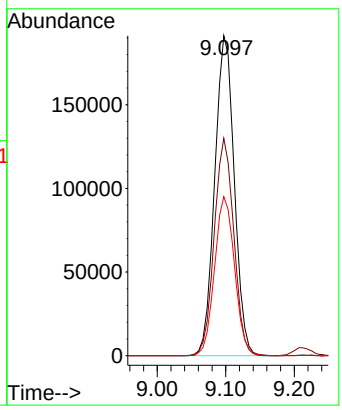




#39
Methylcyclohexane
Concen: 140.620 ug/l
RT: 9.097 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 83 Resp: 37874

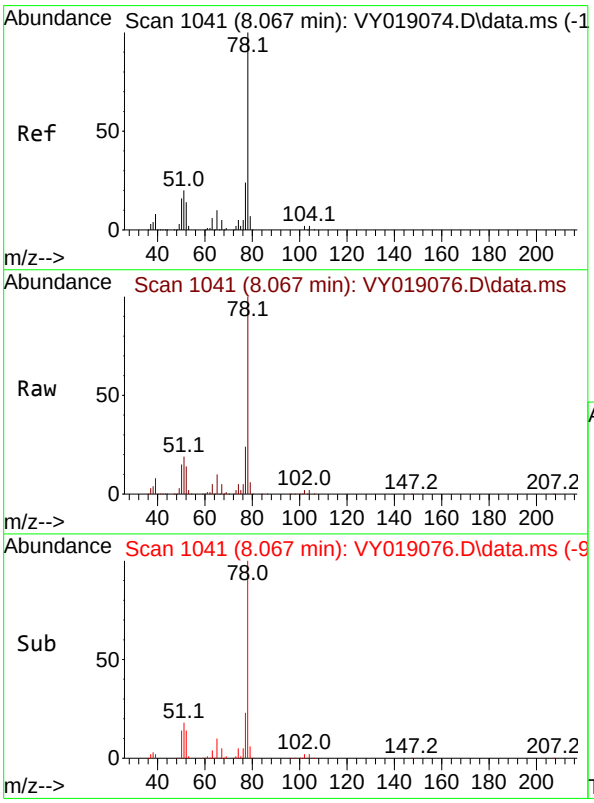
Ion	Ratio	Lower	Upper
83	100		
55	68.0	51.5	77.3
98	49.7	40.5	60.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

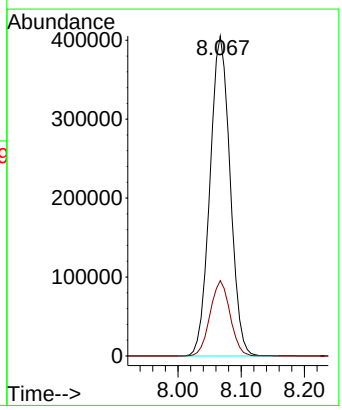
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

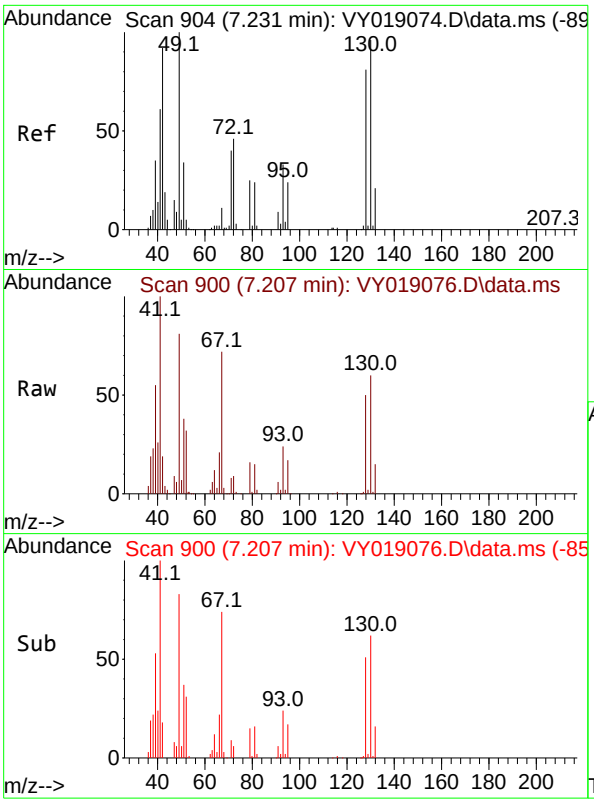


#40
Benzene
Concen: 139.195 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 78 Resp: 895989

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.5	29.3

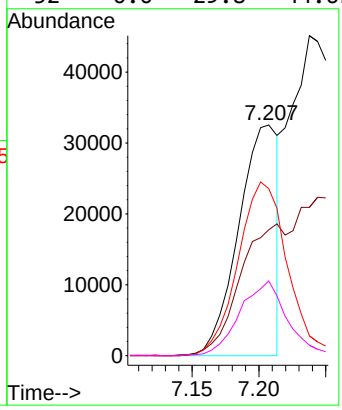




#41
Methacrylonitrile
Concen: 139.430 ug/l m
RT: 7.207 min Scan# 9
Delta R.T. -0.024 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 41 Resp: 6704

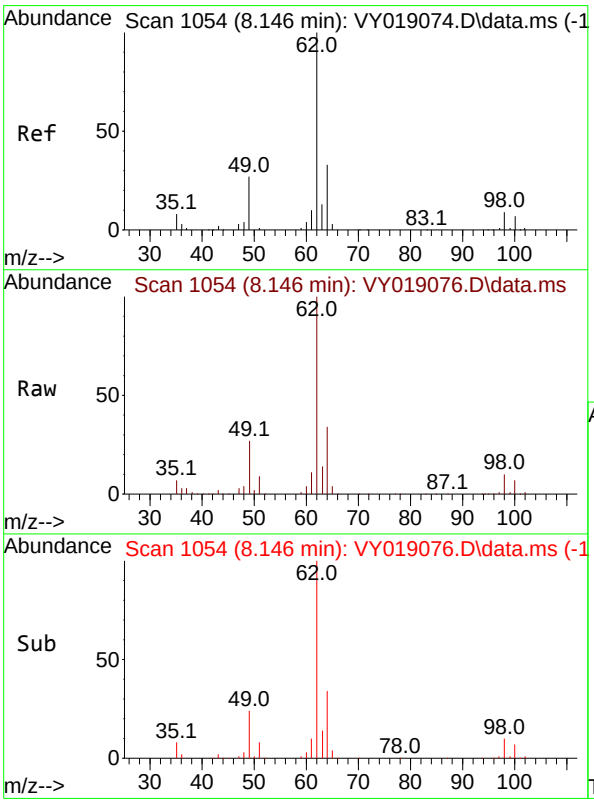
Ion	Ratio	Lower	Upper
41	100		
39	75.9	48.0	72.0#
67	0.0	75.1	112.7#
52	0.0	29.8	44.6#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

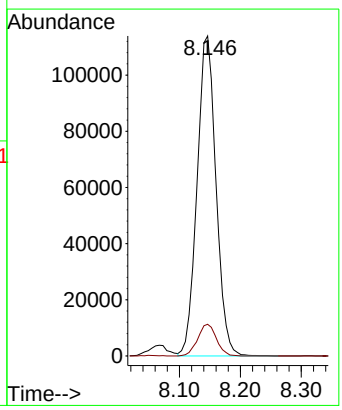
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

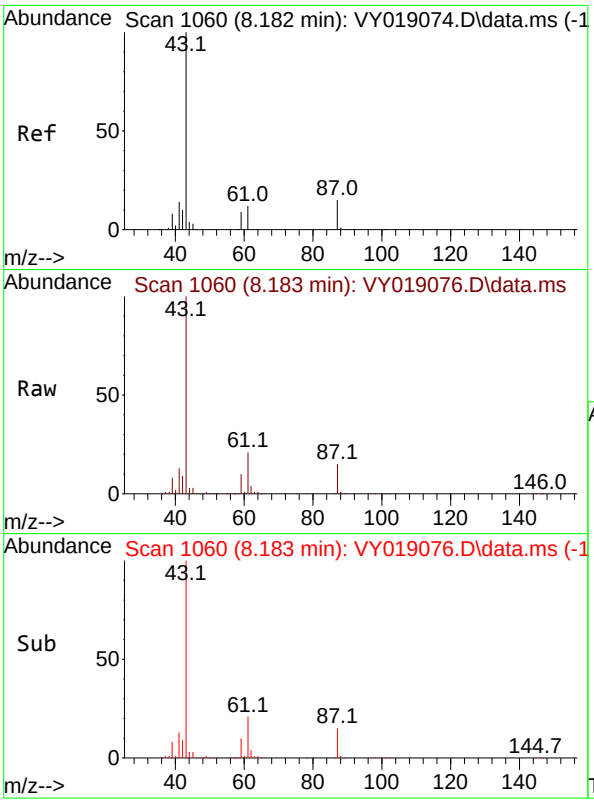


#42
1,2-Dichloroethane
Concen: 141.697 ug/l
RT: 8.146 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 62 Resp: 246305

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	22.0





#43
Isopropyl Acetate
Concen: 147.823 ug/l
RT: 8.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

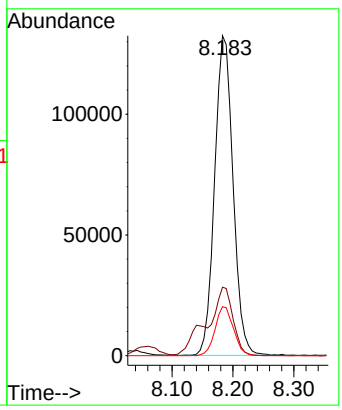
Tgt Ion: 43 Resp: 27799

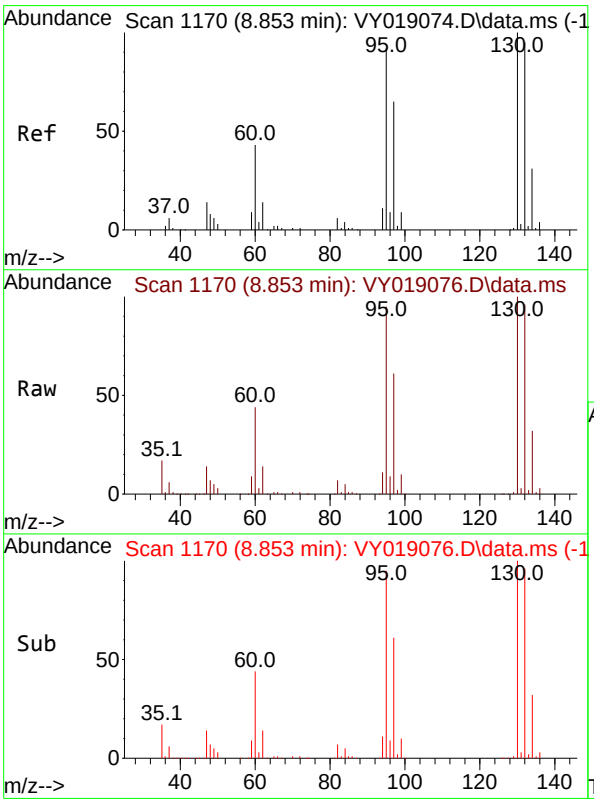
Ion	Ratio	Lower	Upper
43	100		
61	21.3	27.9	41.9#
87	15.3	13.1	19.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

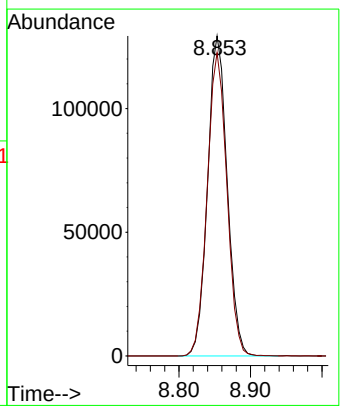


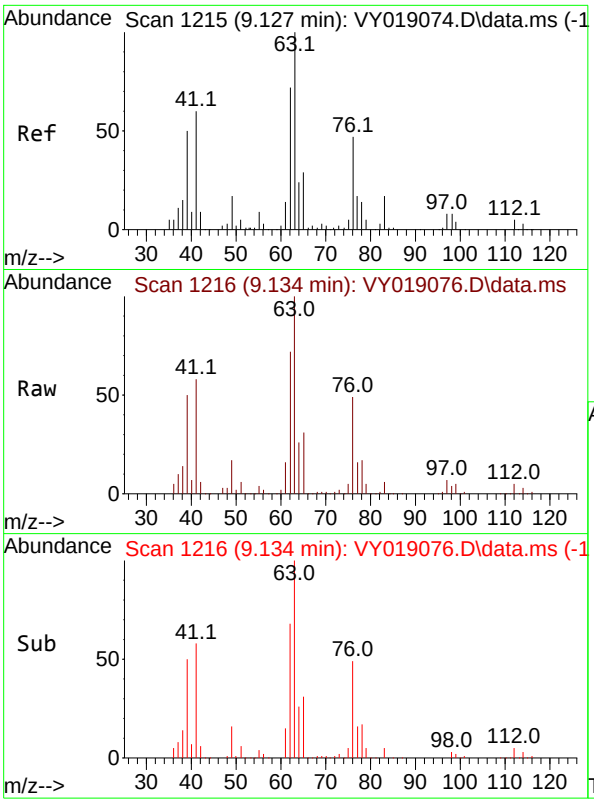


#44
Trichloroethene
Concen: 137.120 ug/l
RT: 8.853 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:130 Resp: 246280

Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	188.0

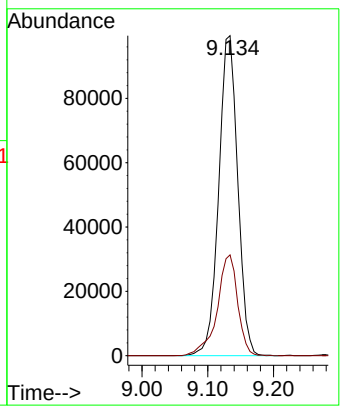




#45
1,2-Dichloropropane
Concen: 139.335 ug/l
RT: 9.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 63 Resp: 19983

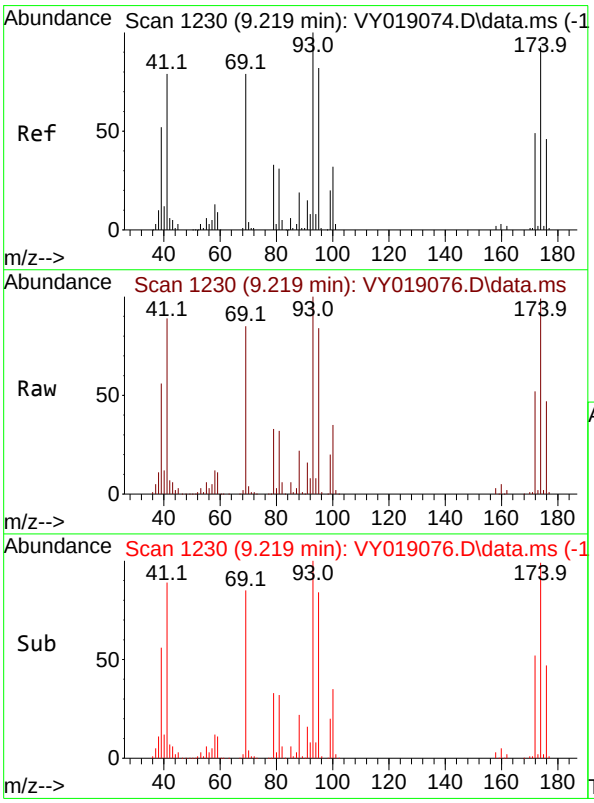
Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

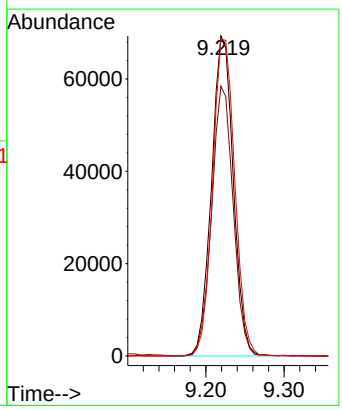
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

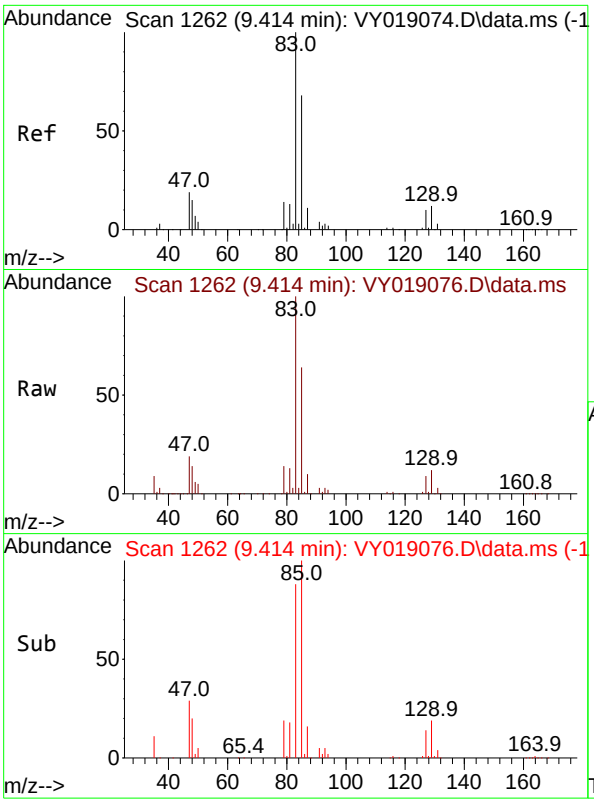


#46
Dibromomethane
Concen: 144.103 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 93 Resp: 134044

Ion	Ratio	Lower	Upper
93	100		
95	83.4	66.2	99.4
174	100.6	80.9	121.3

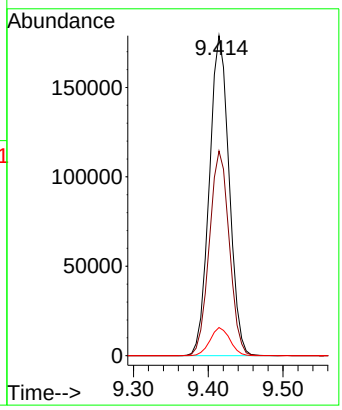




#47
Bromodichloromethane
Concen: 144.307 ug/l
RT: 9.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 83 Resp: 32932

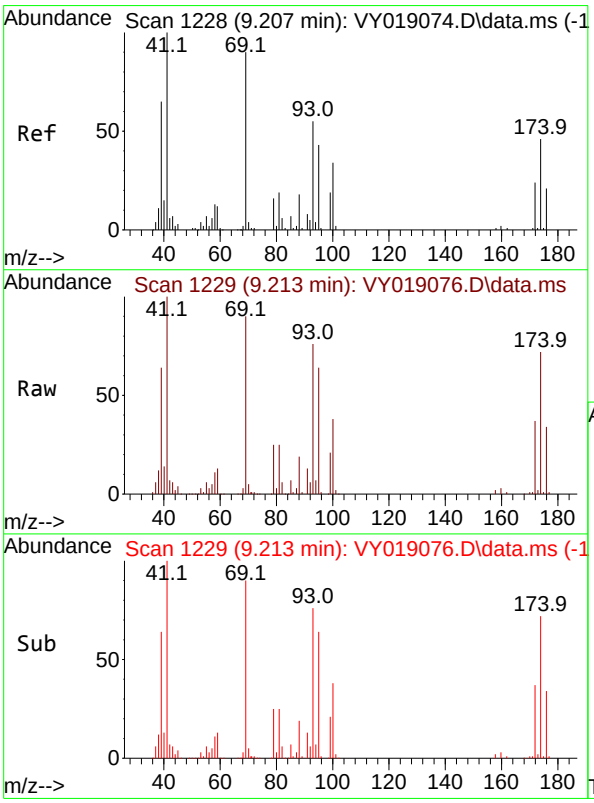
Ion	Ratio	Lower	Upper
83	100		
85	64.0	50.1	75.1
127	8.8	7.4	11.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

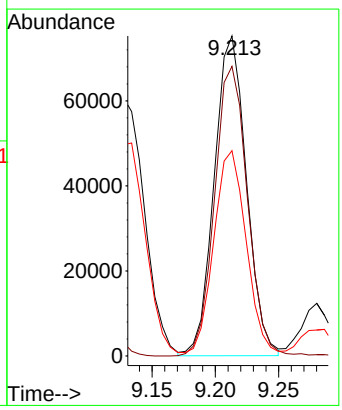
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

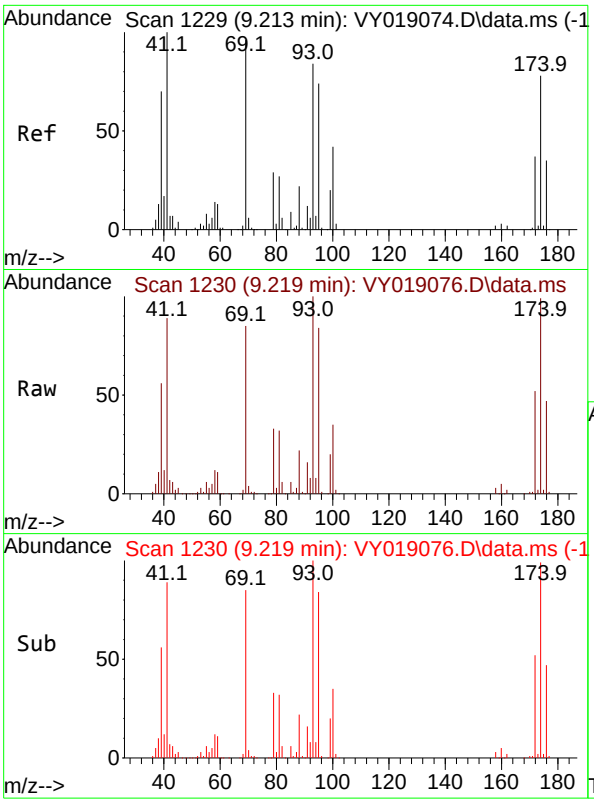


#48
Methyl methacrylate
Concen: 158.820 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 41 Resp: 133108

Ion	Ratio	Lower	Upper
41	100		
69	92.6	84.1	126.1
39	63.0	43.6	65.4

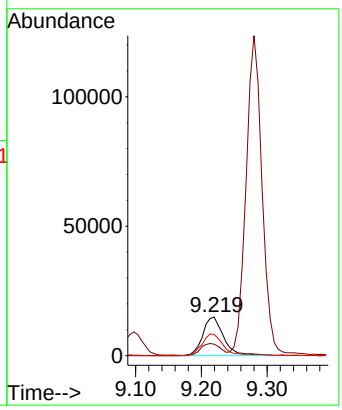




#49
1,4-Dioxane
Concen: 2934.221 ug/l
RT: 9.219 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 88 Resp: 3306

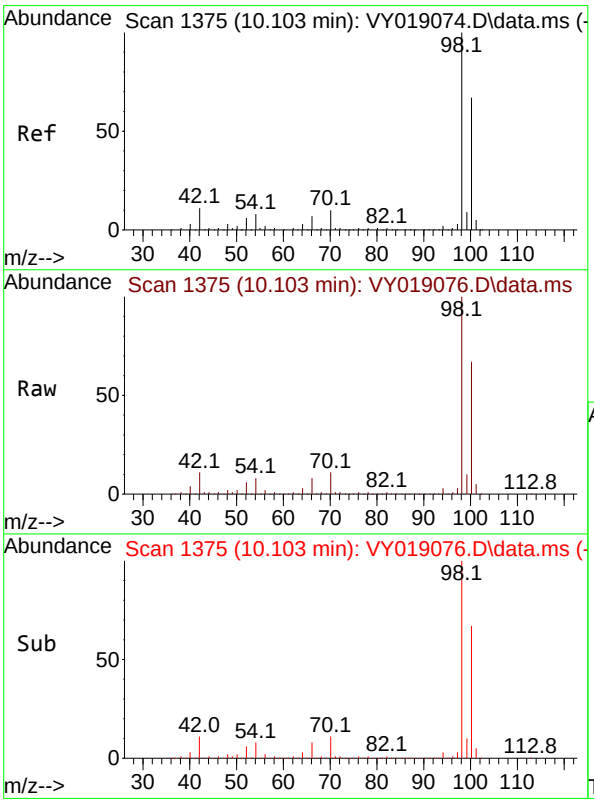
Ion	Ratio	Lower	Upper
88	100		
43	29.7	0.0	0.0
58	56.0	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

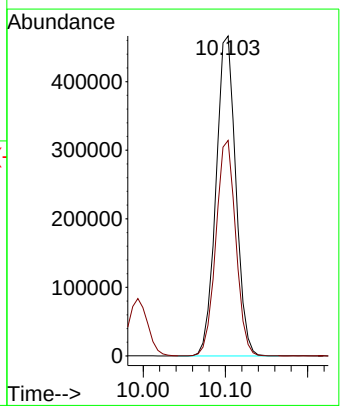
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

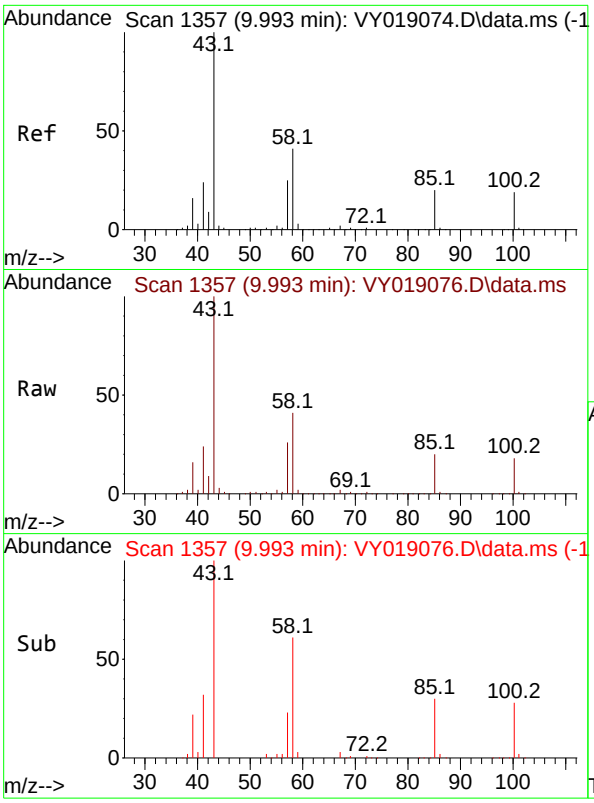


#50
Toluene-d8
Concen: 141.966 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 98 Resp: 780856

Ion	Ratio	Lower	Upper
98	100		
100	67.6	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 748.465 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

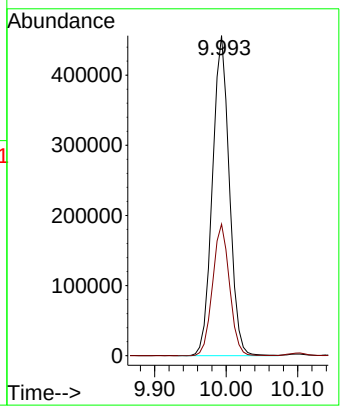
Tgt Ion: 43 Resp: 74706

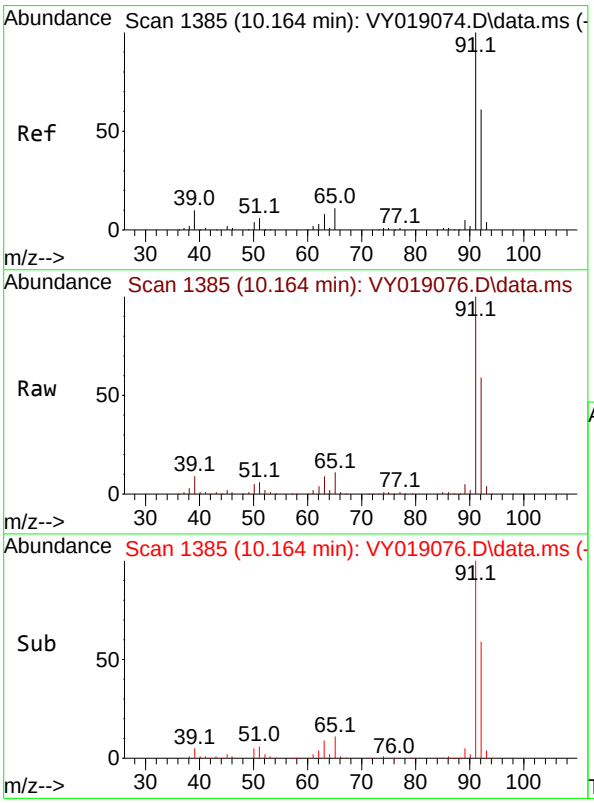
Ion	Ratio	Lower	Upper
43	100		
58	41.1	35.7	53.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

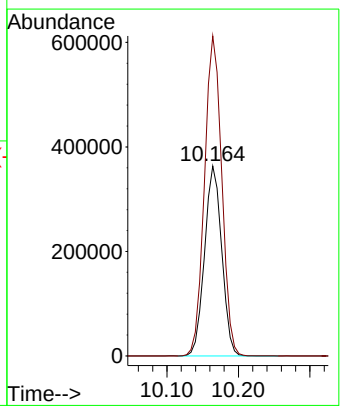


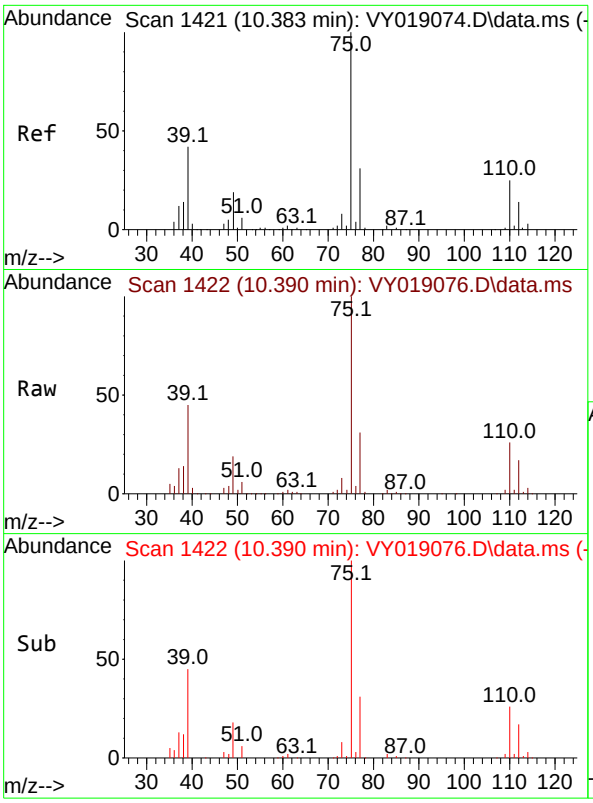


#52
Toluene
Concen: 143.165 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 92 Resp: 604923

Ion	Ratio	Lower	Upper
92	100		
91	170.1	139.0	208.6

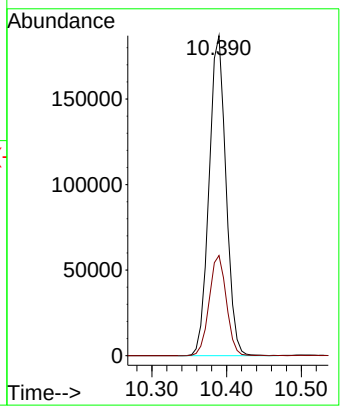




#53
t-1,3-Dichloropropene
Concen: 155.494 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 75 Resp: 29436

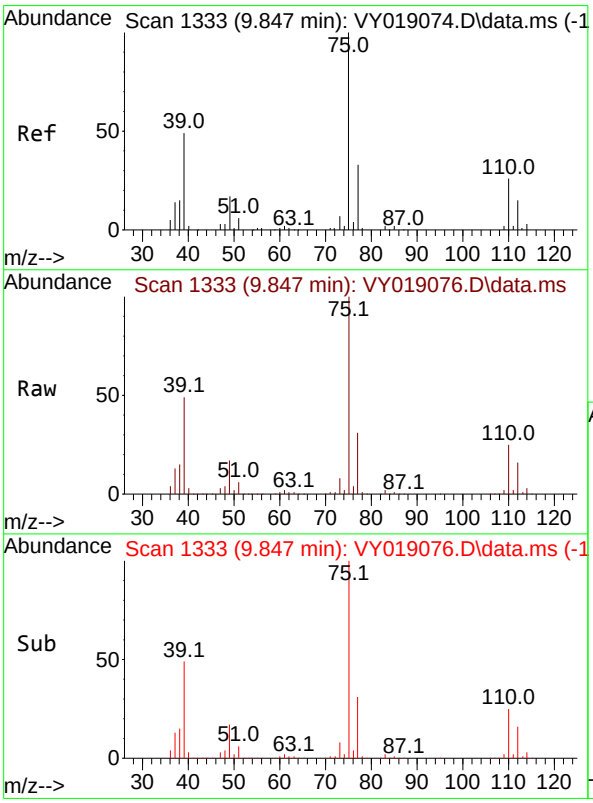
Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.1	36.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

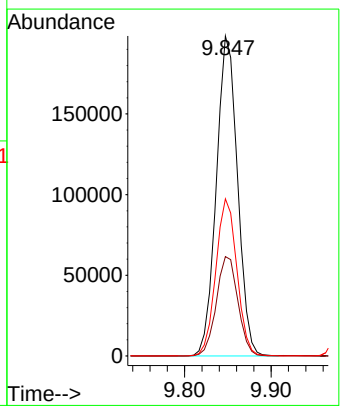
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

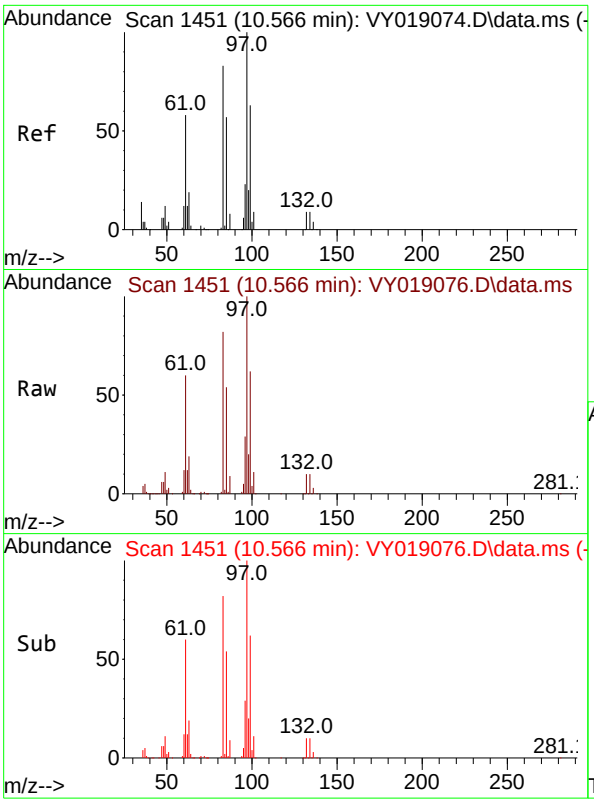


#54
cis-1,3-Dichloropropene
Concen: 147.999 ug/l
RT: 9.847 min Scan# 1333
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 75 Resp: 336952

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.0
39	49.1	29.8	44.6#

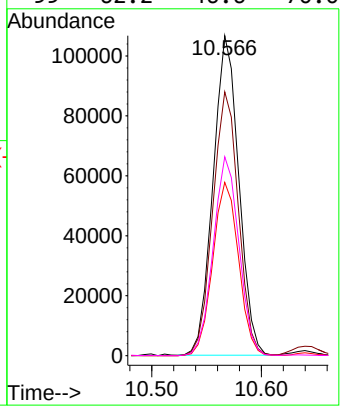




#55
1,1,2-Trichloroethane
Concen: 145.193 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 97 Resp: 17386

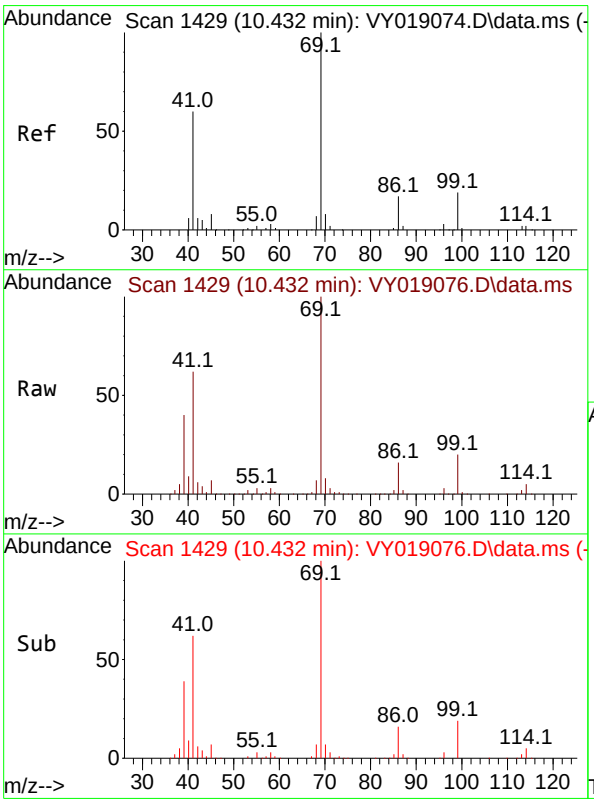
Ion	Ratio	Lower	Upper
97	100		
83	82.6	67.5	101.3
85	54.2	42.9	64.3
99	62.2	46.6	70.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

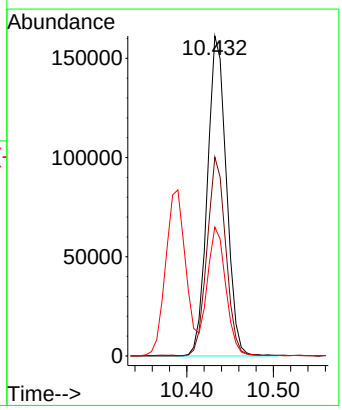
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

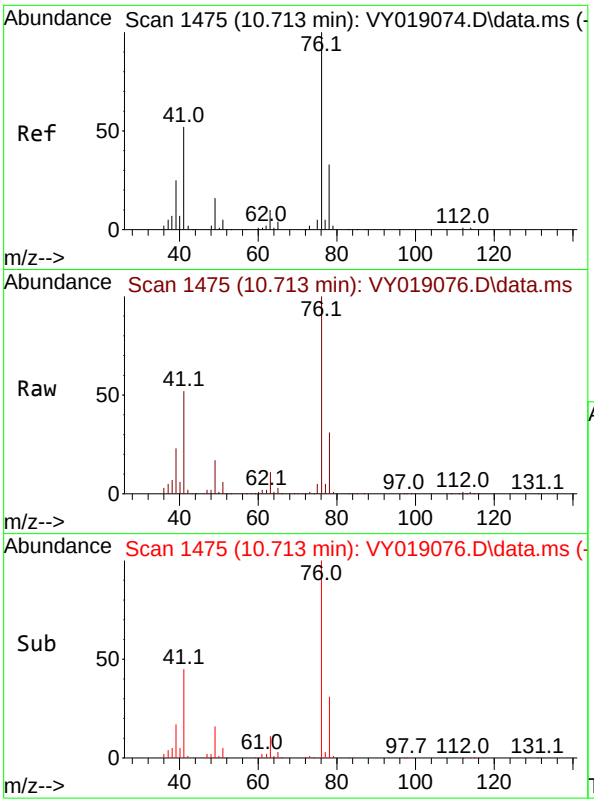


#56
Ethyl methacrylate
Concen: 156.766 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 69 Resp: 245714

Ion	Ratio	Lower	Upper
69	100		
41	61.0	42.3	63.5
39	38.7	22.9	34.3#





#57
1,3-Dichloropropane
Concen: 142.185 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

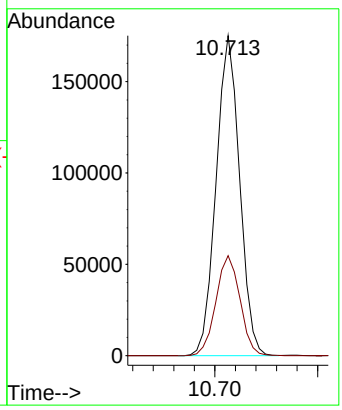
Tgt Ion: 76 Resp: 27755

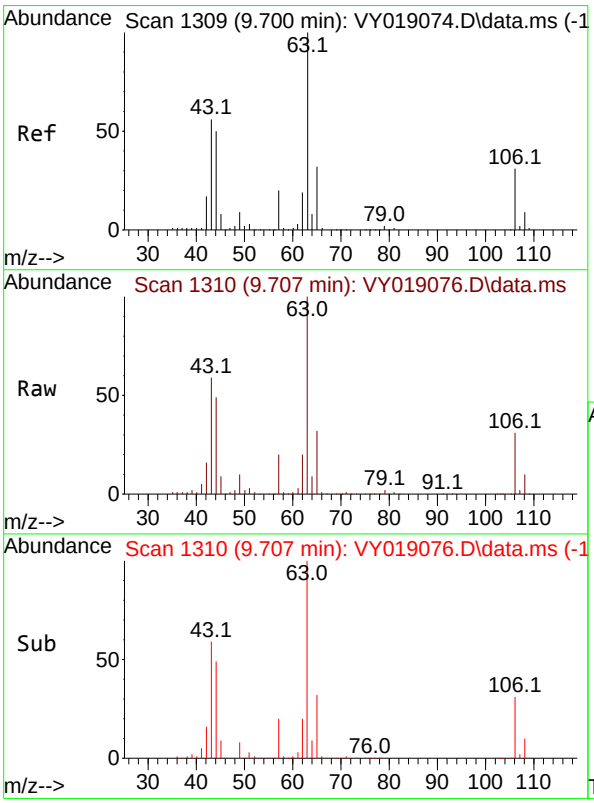
Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

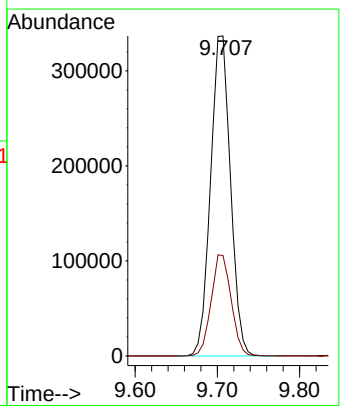


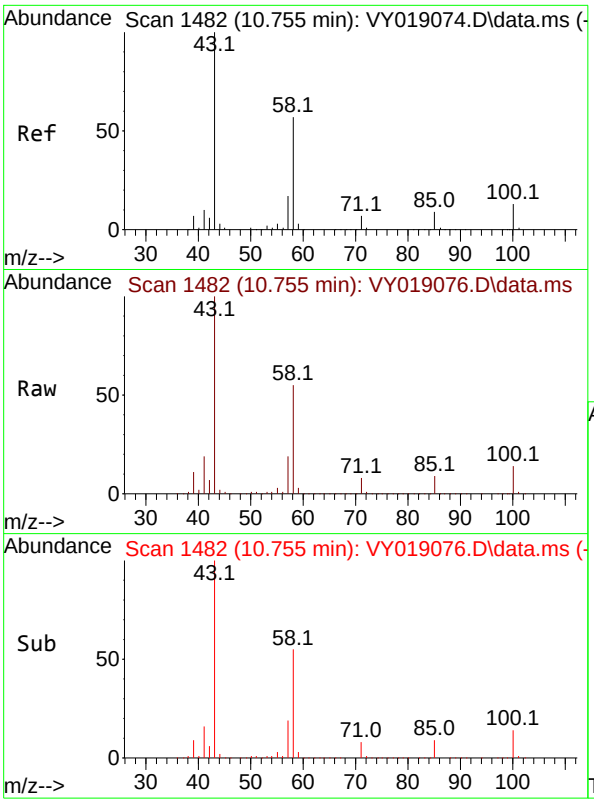


#58
2-Chloroethyl Vinyl ether
Concen: 764.886 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 63 Resp: 568743

Ion	Ratio	Lower	Upper
63	100		
106	31.7	23.7	35.5

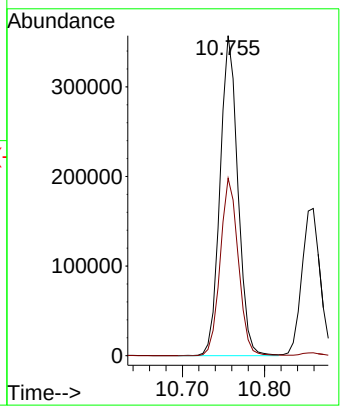




#59
2-Hexanone
Concen: 782.124 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 43 Resp: 53633

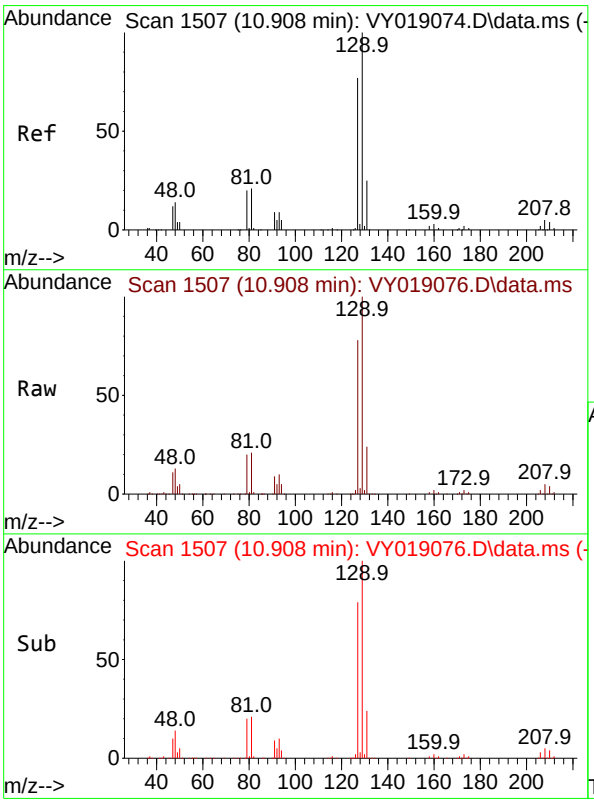
Ion	Ratio	Lower	Upper
43	100		
58	56.5	31.4	94.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

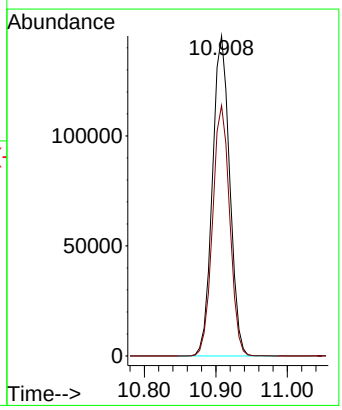
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

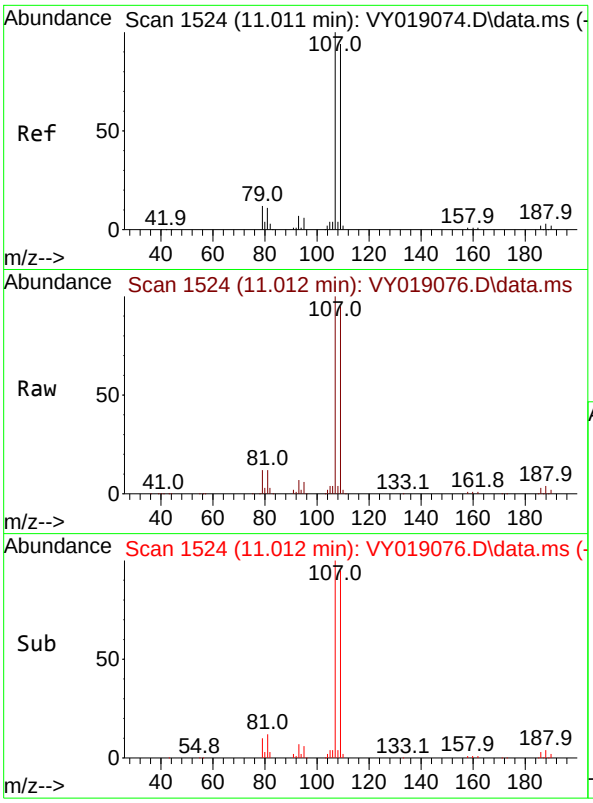


#60
Dibromochloromethane
Concen: 149.375 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:129 Resp: 243628

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.0	117.0

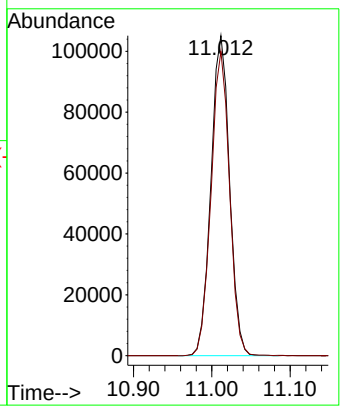




#61
1,2-Dibromoethane
Concen: 149.902 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:107 Resp: 17349

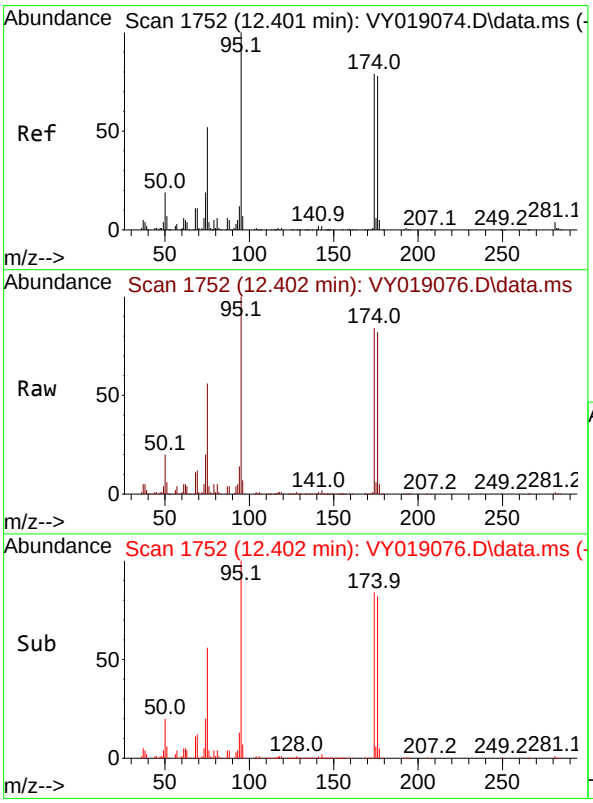
Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.9	113.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

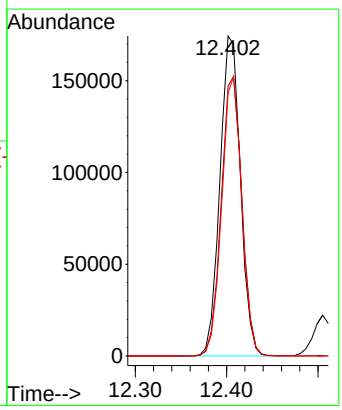
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

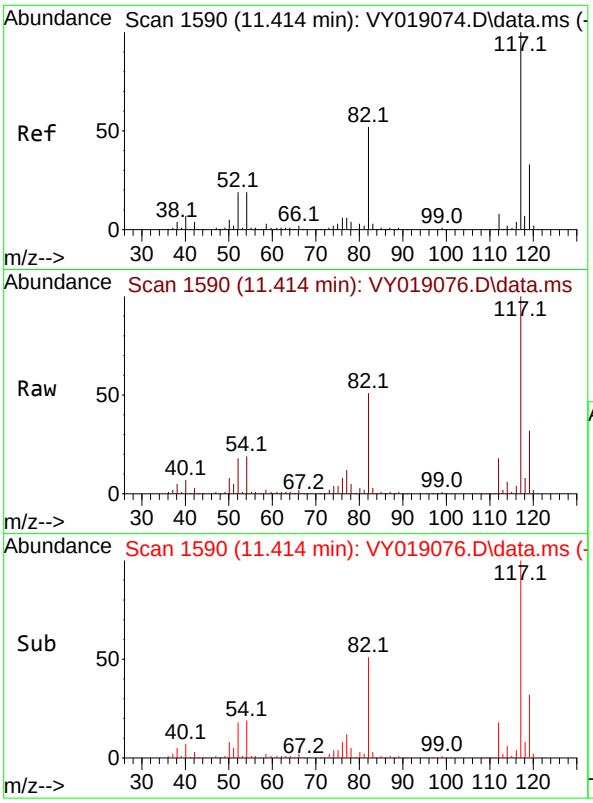


#62
4-Bromofluorobenzene
Concen: 144.948 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 95 Resp: 271785

Ion	Ratio	Lower	Upper
95	100		
174	88.0	0.0	175.6
176	85.5	0.0	171.4

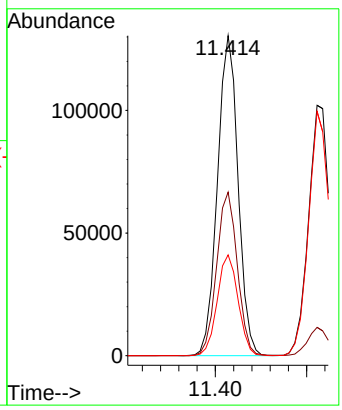




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:117 Resp: 20442

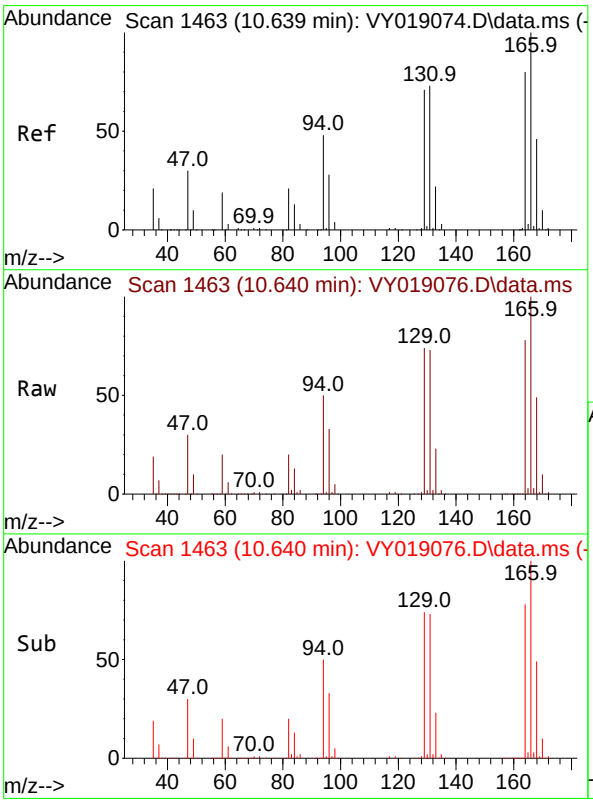
Ion	Ratio	Lower	Upper
117	100		
82	51.1	42.4	63.6
119	31.5	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

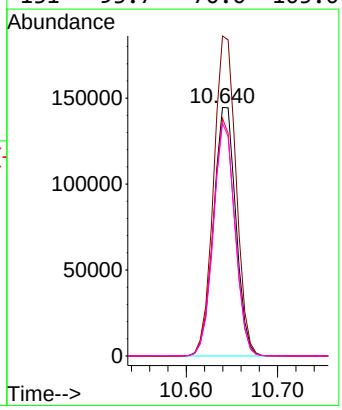
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

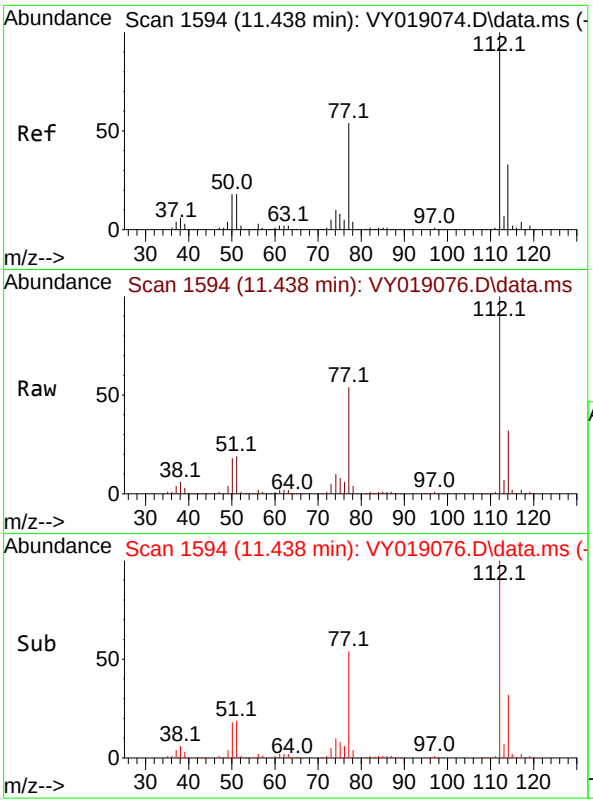


#64
Tetrachloroethene
Concen: 137.299 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:164 Resp: 245327

Ion	Ratio	Lower	Upper
164	100		
166	128.8	102.6	154.0
129	95.5	72.0	108.0
131	93.7	70.0	105.0

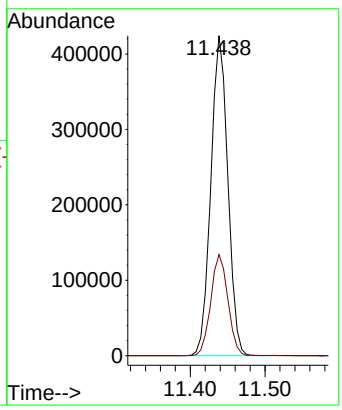




#65
Chlorobenzene
Concen: 141.896 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:112 Resp: 66791

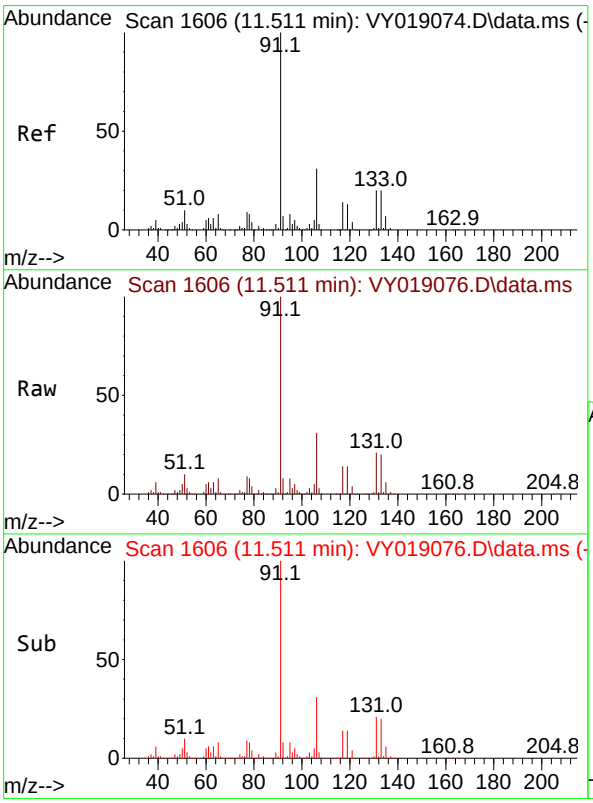
Ion	Ratio	Lower	Upper
112	100		
114	31.6	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

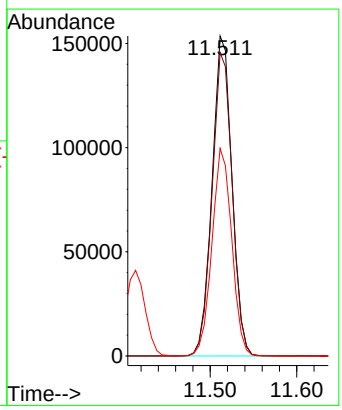
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

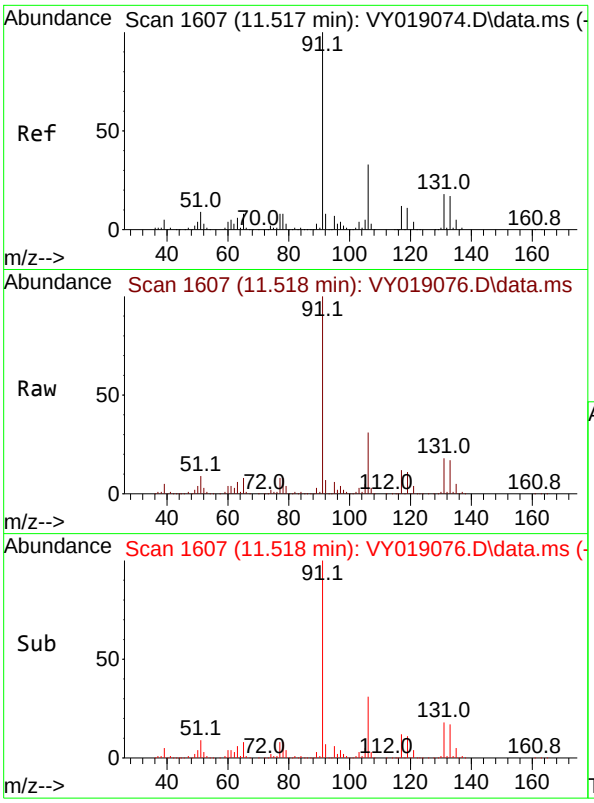


#66
1,1,1,2-Tetrachloroethane
Concen: 147.855 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:131 Resp: 244749

Ion	Ratio	Lower	Upper
131	100		
133	95.7	47.8	143.3
119	64.6	34.1	102.2

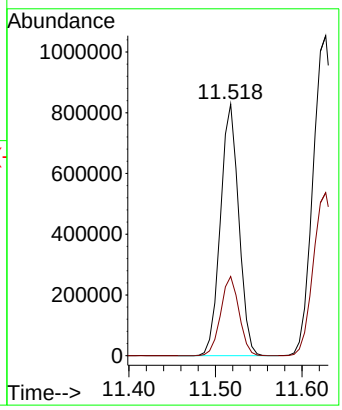




#67
Ethyl Benzene
Concen: 149.165 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 91 Resp: 121866

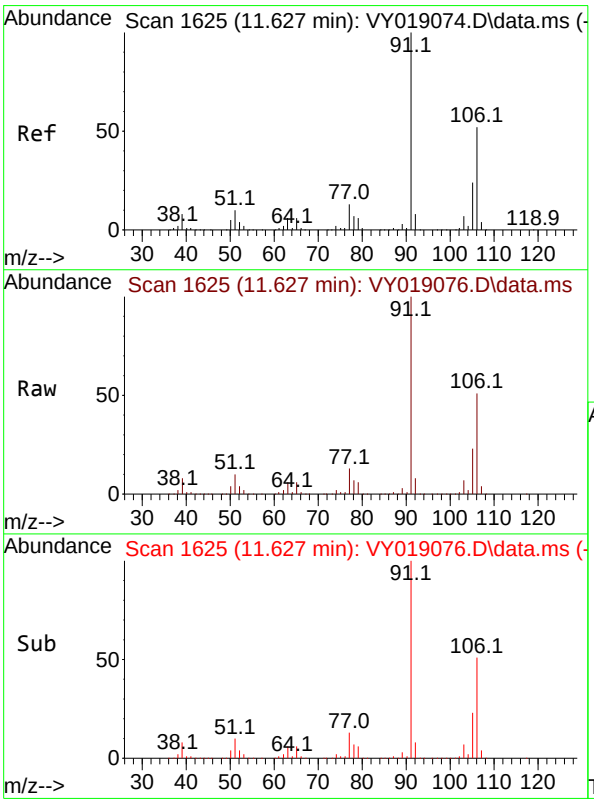
Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.5	36.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

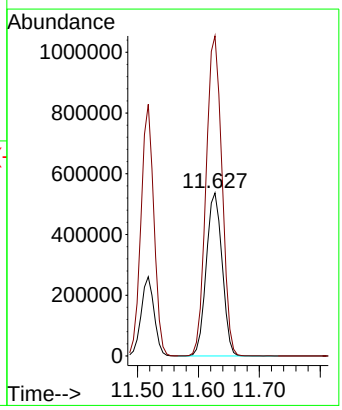
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

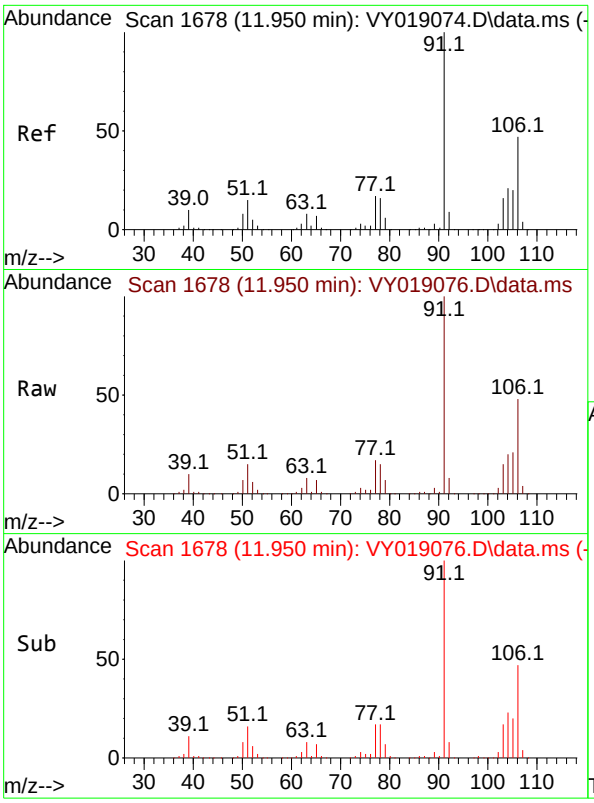


#68
m/p-Xylenes
Concen: 299.196 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:106 Resp: 969919

Ion	Ratio	Lower	Upper
106	100		
91	196.5	156.0	234.0

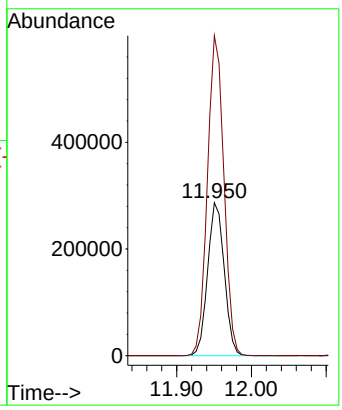




#69
o-Xylene
Concen: 147.403 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:106 Resp: 44250

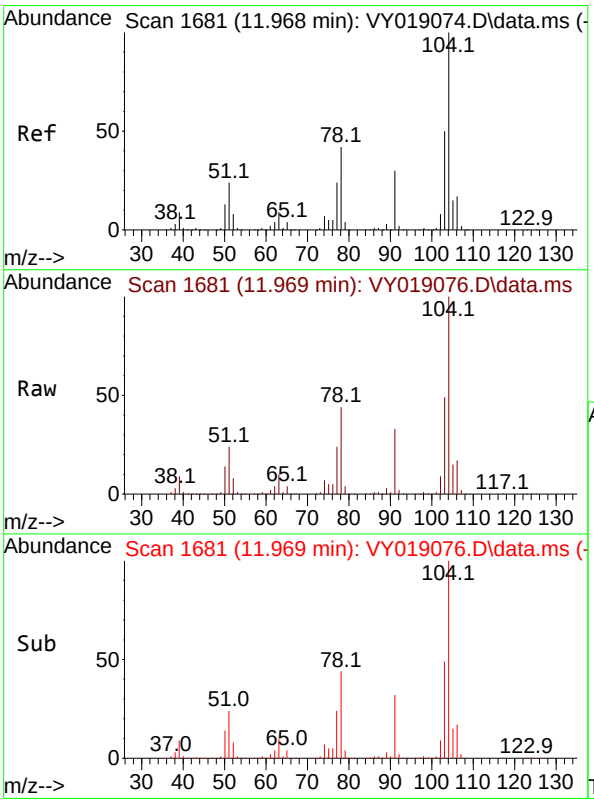
Ion	Ratio	Lower	Upper
106	100		
91	207.2	103.6	310.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

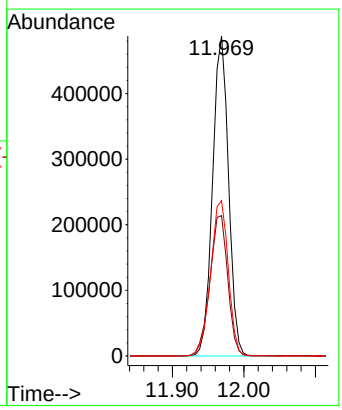
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

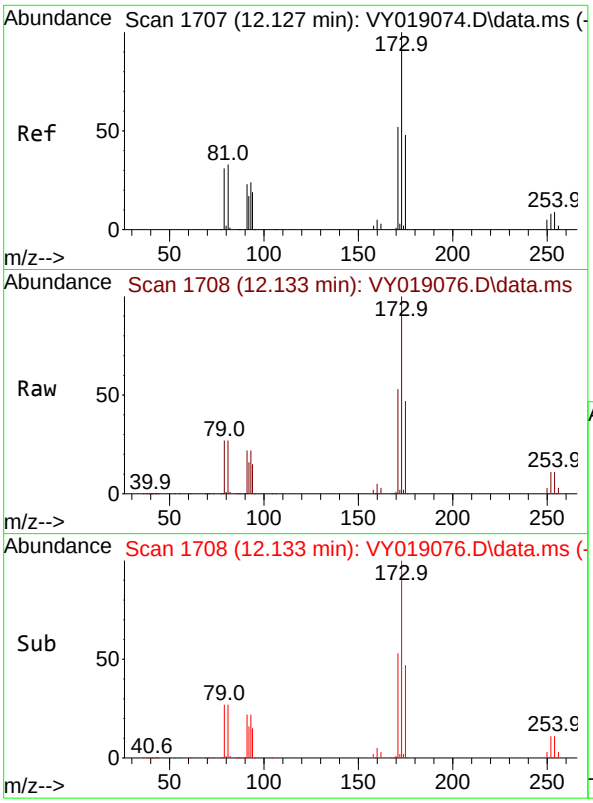


#70
Styrene
Concen: 147.626 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:104 Resp: 755740

Ion	Ratio	Lower	Upper
104	100		
78	49.2	37.0	55.4
103	53.6	44.2	66.2

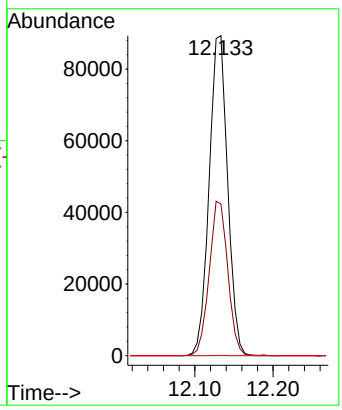




#71
Bromoform
Concen: 154.552 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:173 Resp: 14624

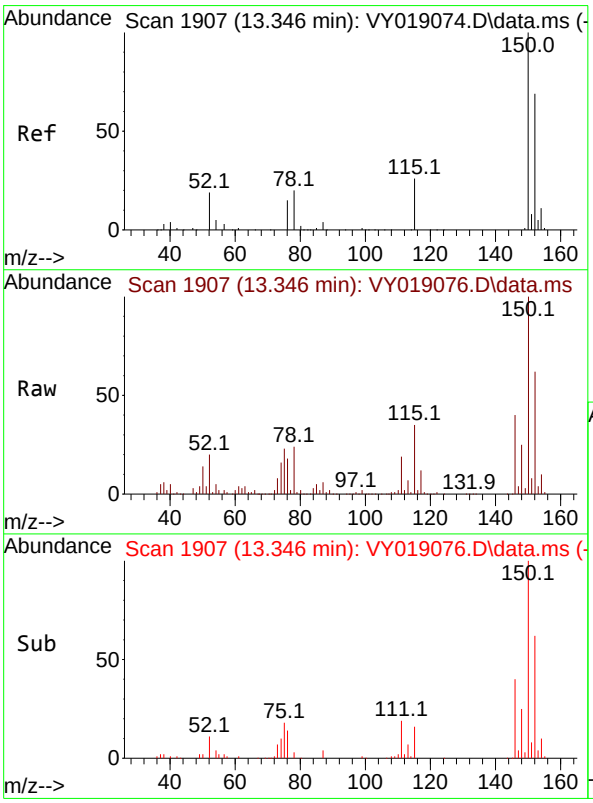
Ion	Ratio	Lower	Upper
173	100		
175	48.5	25.1	75.3
254	0.1	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

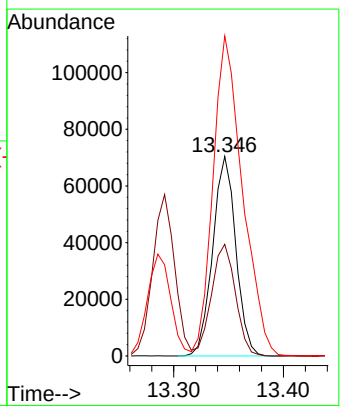
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

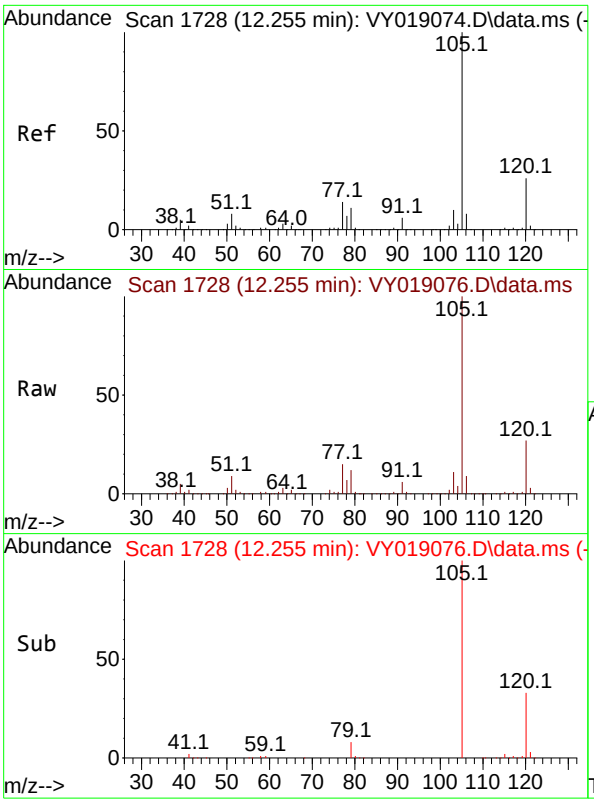


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:152 Resp: 103374

Ion	Ratio	Lower	Upper
152	100		
115	58.1	28.2	84.7
150	204.6	0.0	345.6

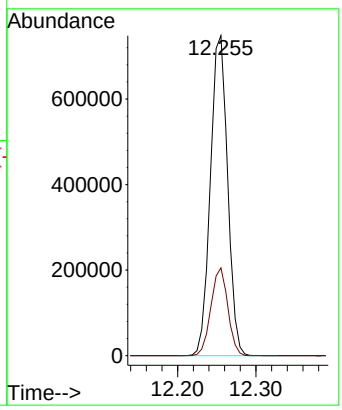




#73
Isopropylbenzene
Concen: 143.956 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:105 Resp: 114057

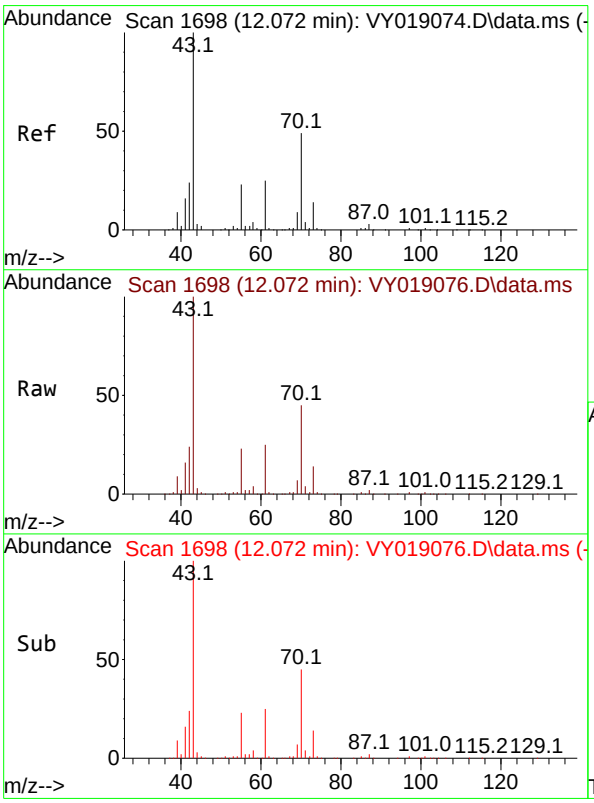
Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

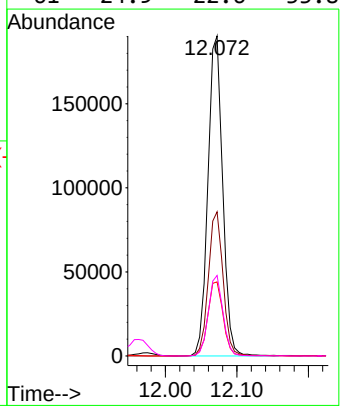
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

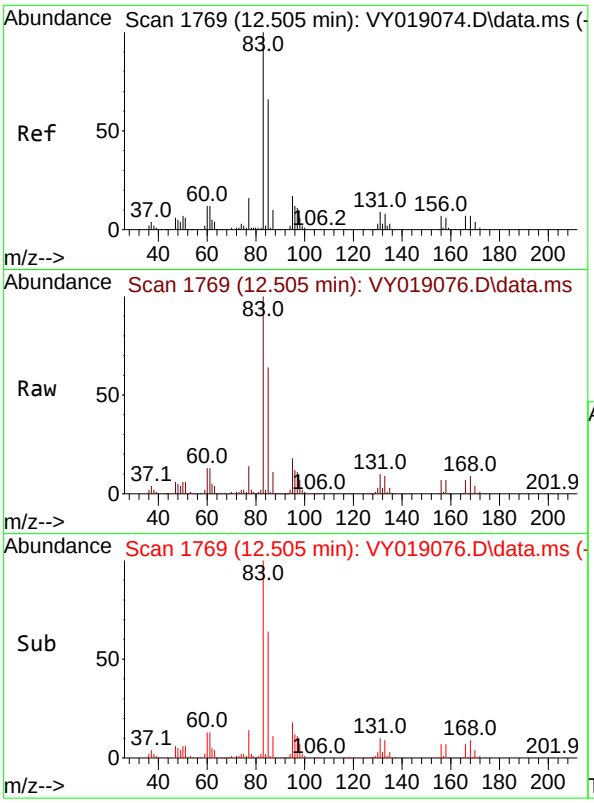


#74
N-amyl acetate
Concen: 157.858 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 43 Resp: 272730

Ion	Ratio	Lower	Upper
43	100		
70	45.1	41.4	62.2
55	24.1	23.3	34.9
61	24.9	22.6	33.8

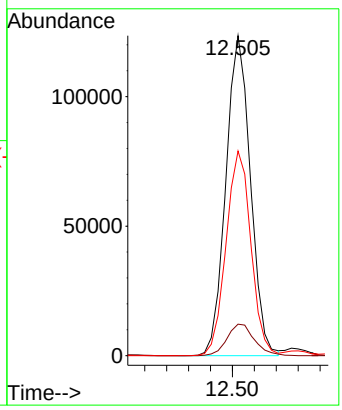




#75
1,1,2,2-Tetrachloroethane
Concen: 136.399 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 83 Resp: 19239

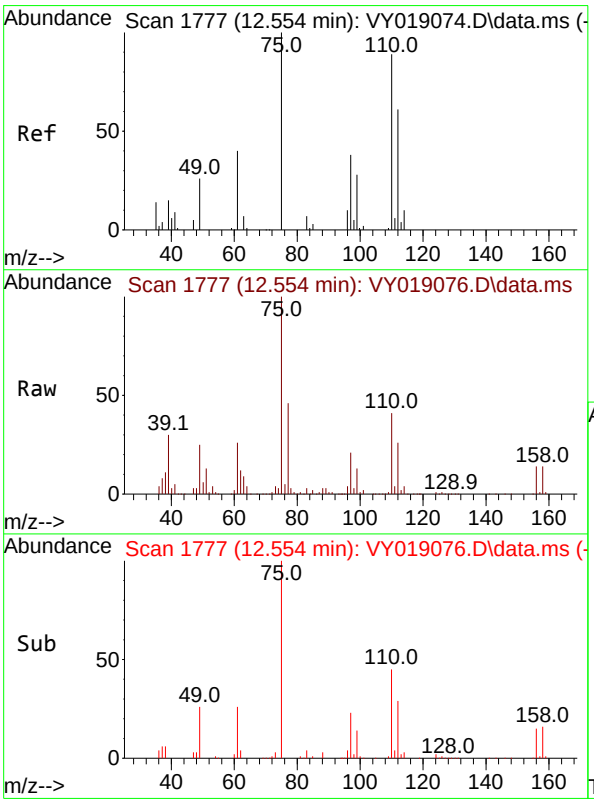
Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.0	14.9
85	64.6	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

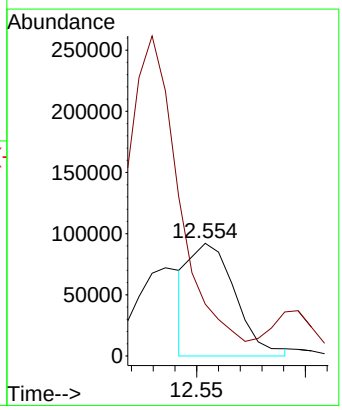
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

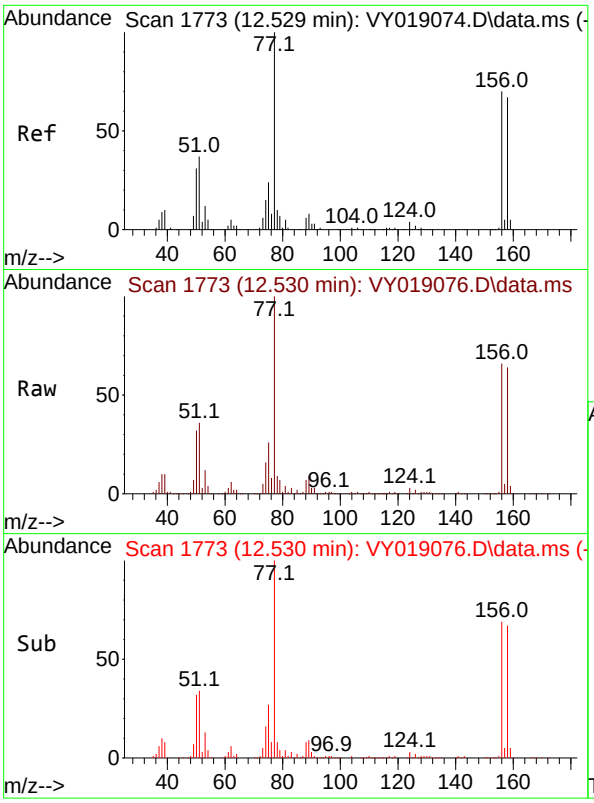


#76
1,2,3-Trichloropropane
Concen: 137.884 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 75 Resp: 135383

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

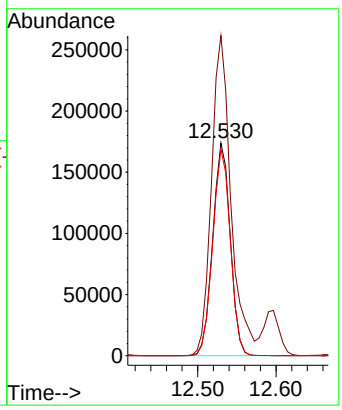




#77
Bromobenzene
Concen: 142.045 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:156 Resp: 27028

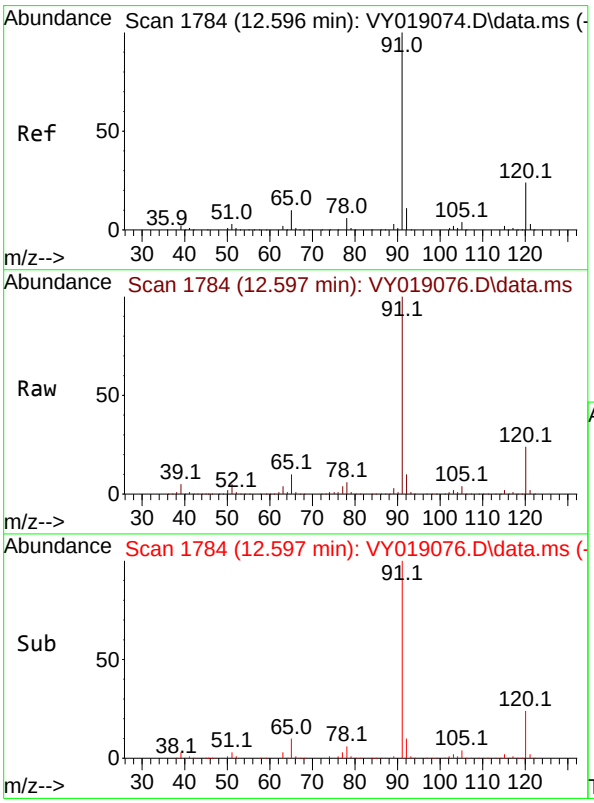
Ion	Ratio	Lower	Upper
156	100		
77	166.8	87.1	261.3
158	97.4	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

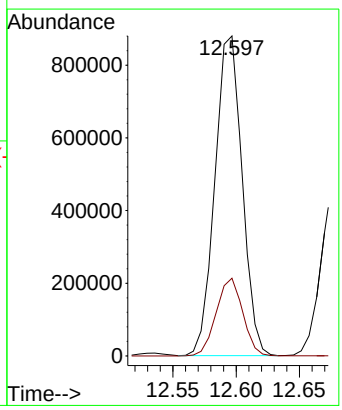
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

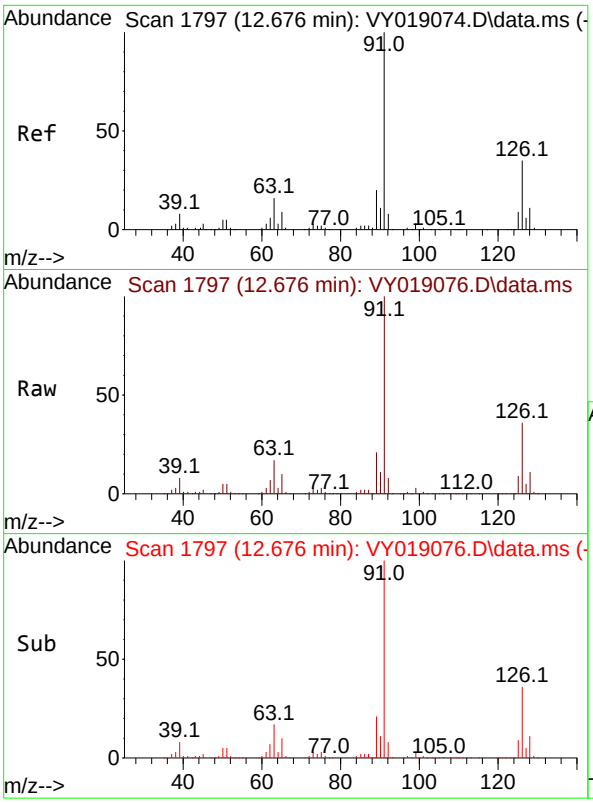


#78
n-propylbenzene
Concen: 139.070 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 91 Resp: 1317217

Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.5	34.4

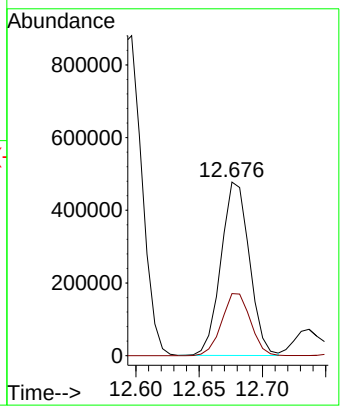




#79
2-Chlorotoluene
Concen: 140.408 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 91 Resp: 74558

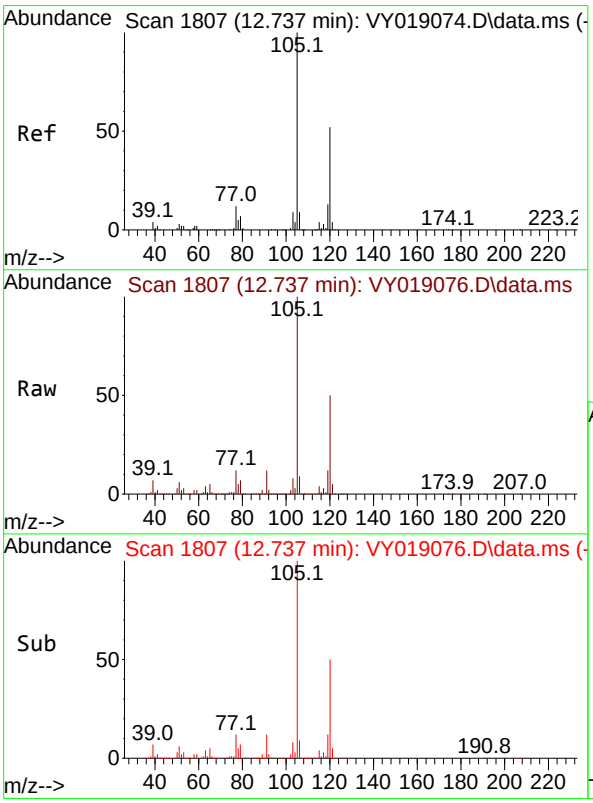
Ion	Ratio	Lower	Upper
91	100		
126	36.2	17.8	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

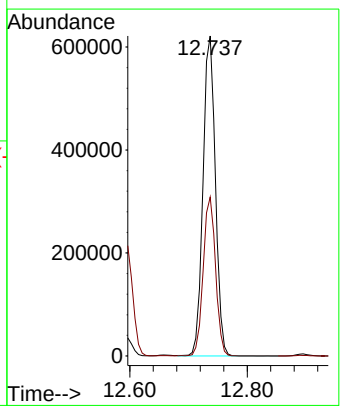
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

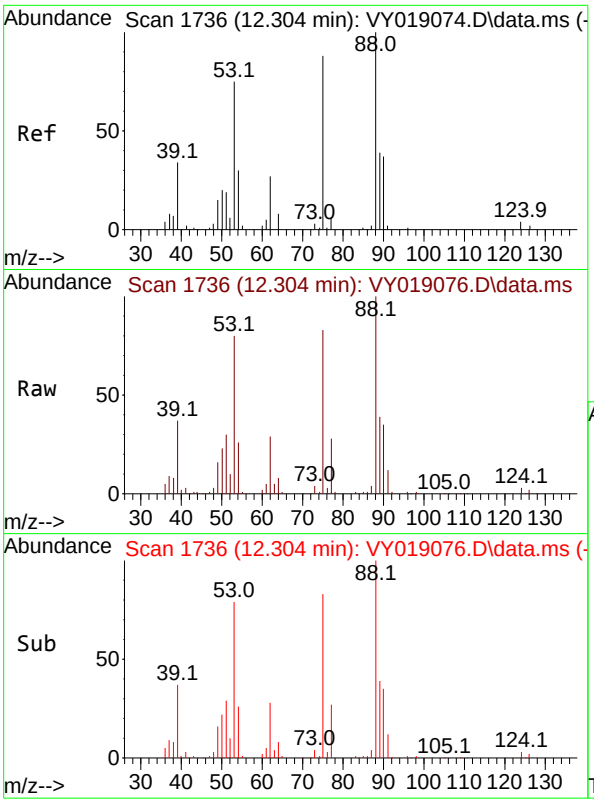


#80
1,3,5-Trimethylbenzene
Concen: 141.063 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:105 Resp: 910505

Ion	Ratio	Lower	Upper
105	100		
120	49.6	25.1	75.2

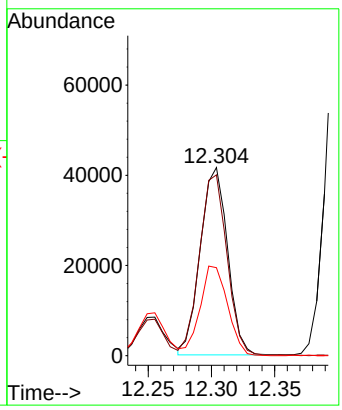




#81
trans-1,4-Dichloro-2-butene
Concen: 151.297 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 75 Resp: 6245

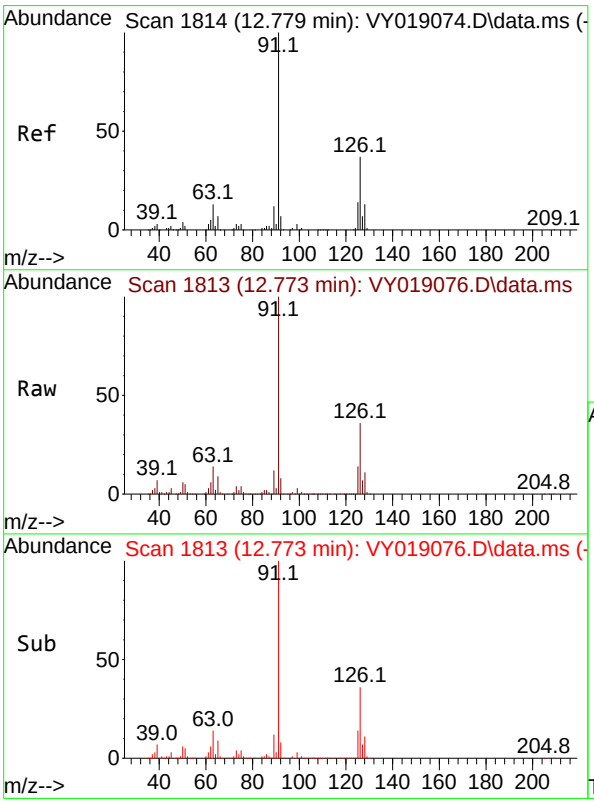
Ion	Ratio	Lower	Upper
75	100		
53	98.1	66.8	100.2
89	48.7	35.8	53.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

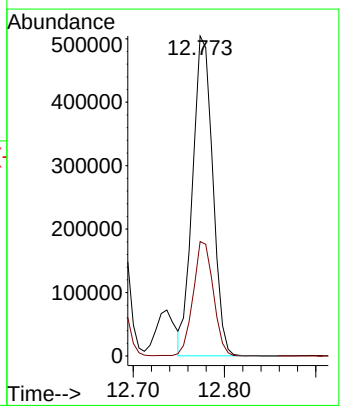
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

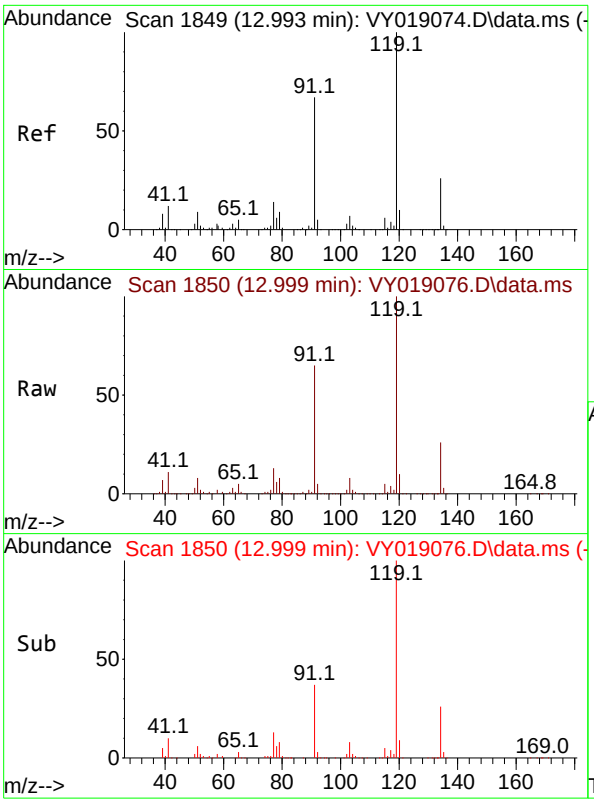


#82
4-Chlorotoluene
Concen: 139.426 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 91 Resp: 770274

Ion	Ratio	Lower	Upper
91	100		
126	35.9	17.6	52.9

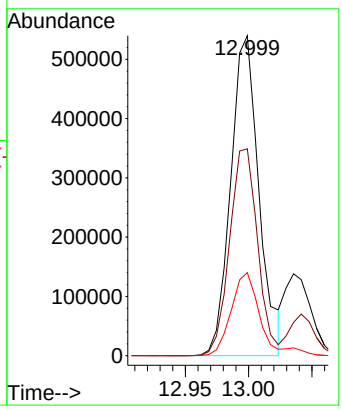




#83
tert-Butylbenzene
Concen: 140.837 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:119 Resp: 83948

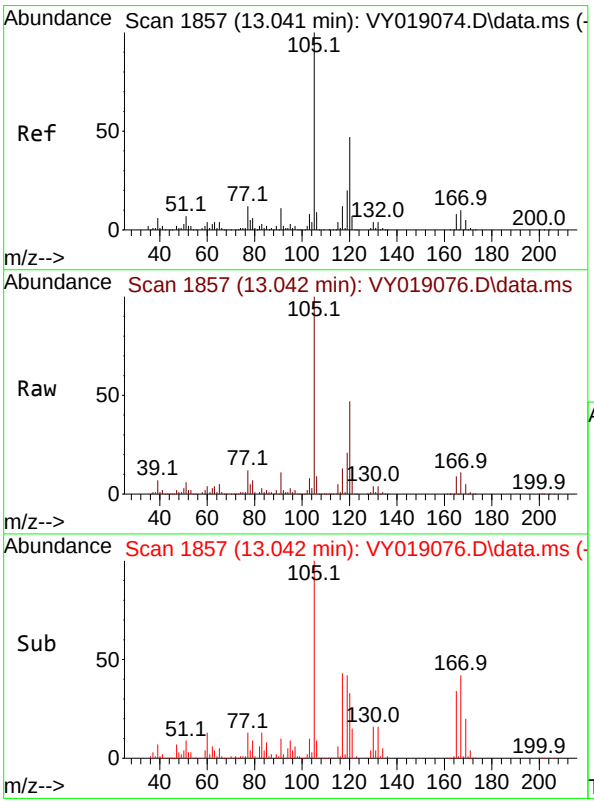
Ion	Ratio	Lower	Upper
119	100		
91	64.1	31.3	93.8
134	26.8	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

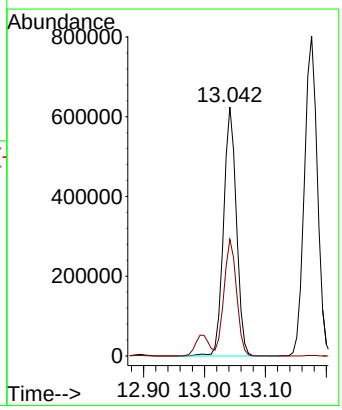
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

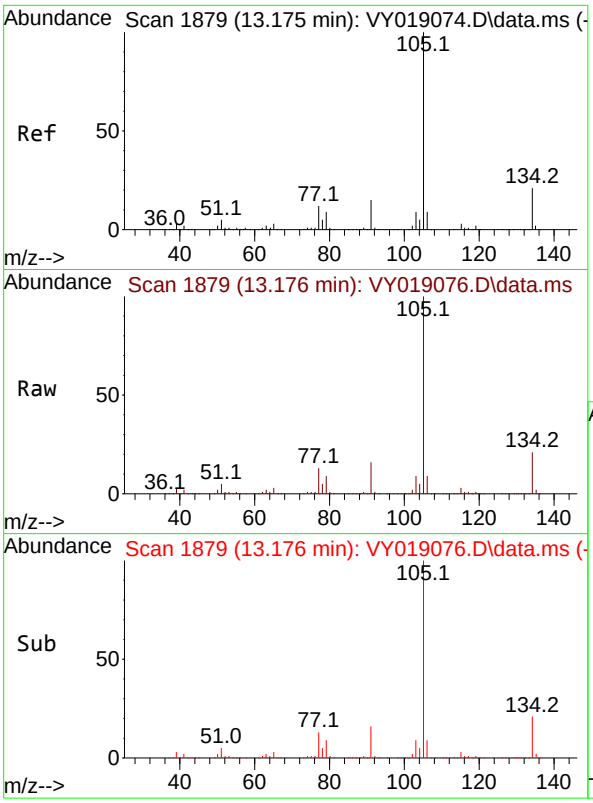


#84
1,2,4-Trimethylbenzene
Concen: 141.806 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:105 Resp: 912240

Ion	Ratio	Lower	Upper
105	100		
120	45.7	23.2	69.6

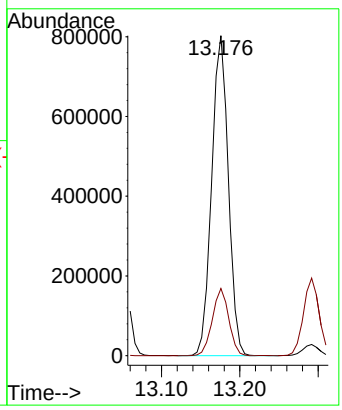




#85
sec-Butylbenzene
Concen: 136.405 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:105 Resp: 118485

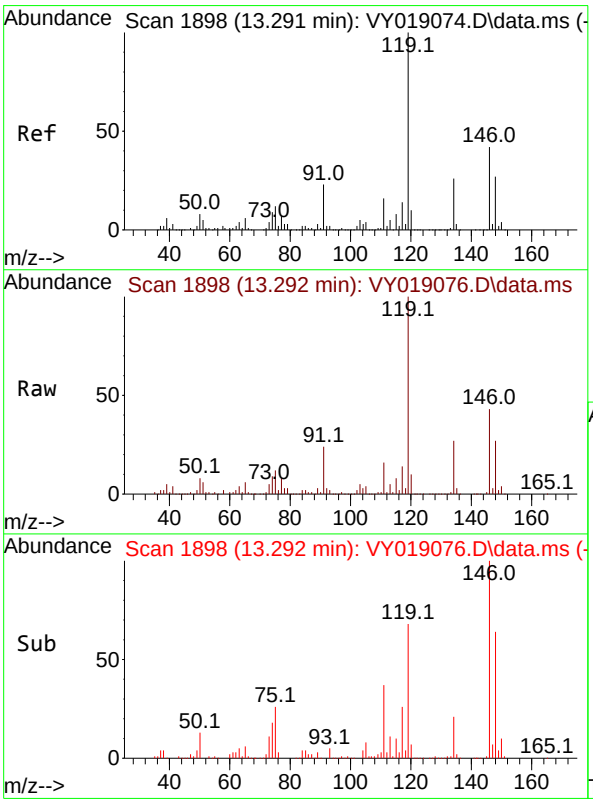
Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

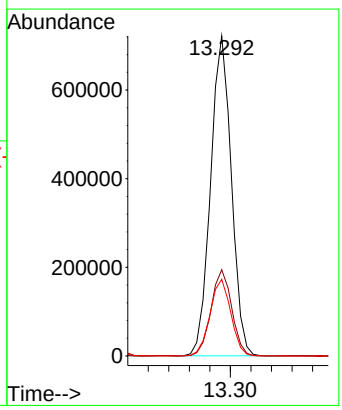
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

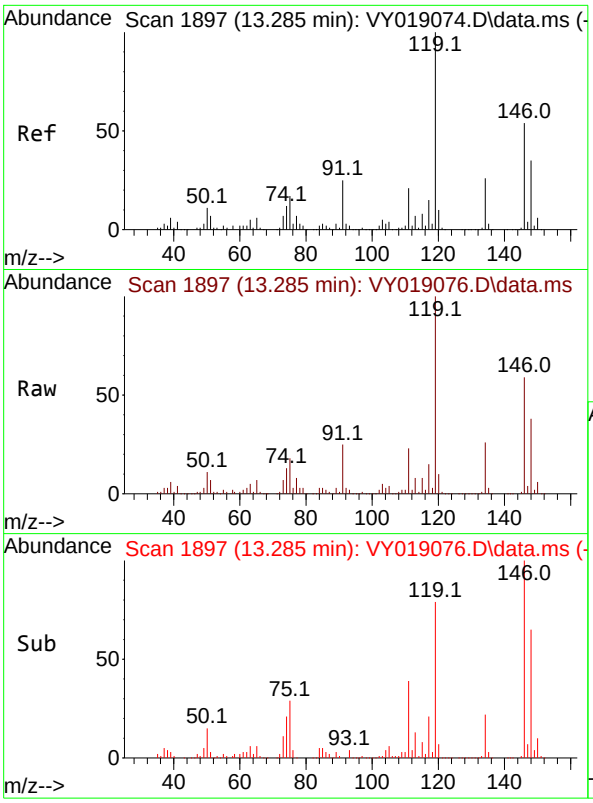


#86
p-Isopropyltoluene
Concen: 141.728 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:119 Resp: 1011209

Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.1	39.3
91	24.0	10.7	32.1

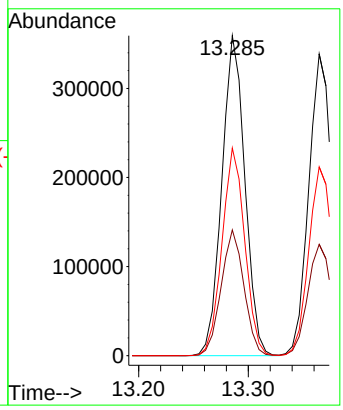




#87
1,3-Dichlorobenzene
Concen: 139.839 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:146 Resp: 52475

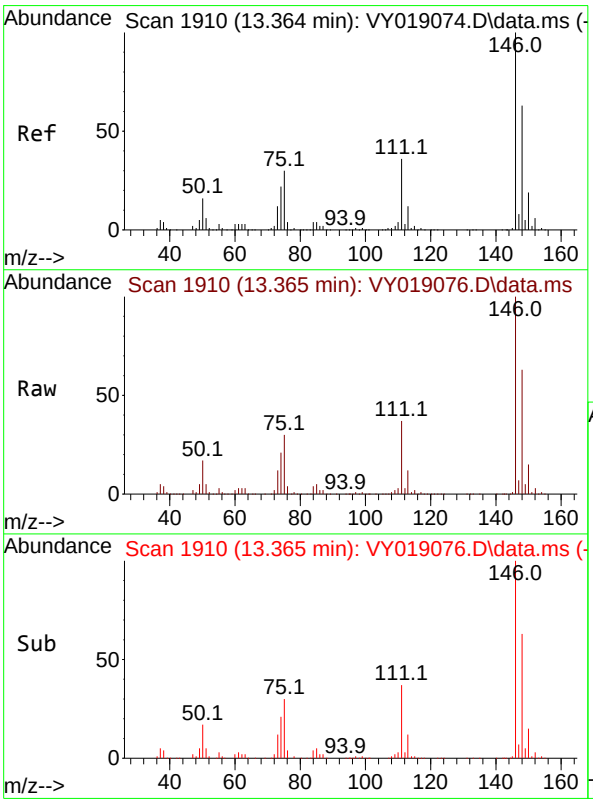
Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.0	57.0
148	64.1	31.7	95.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

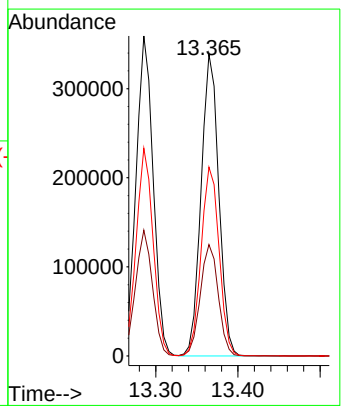
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

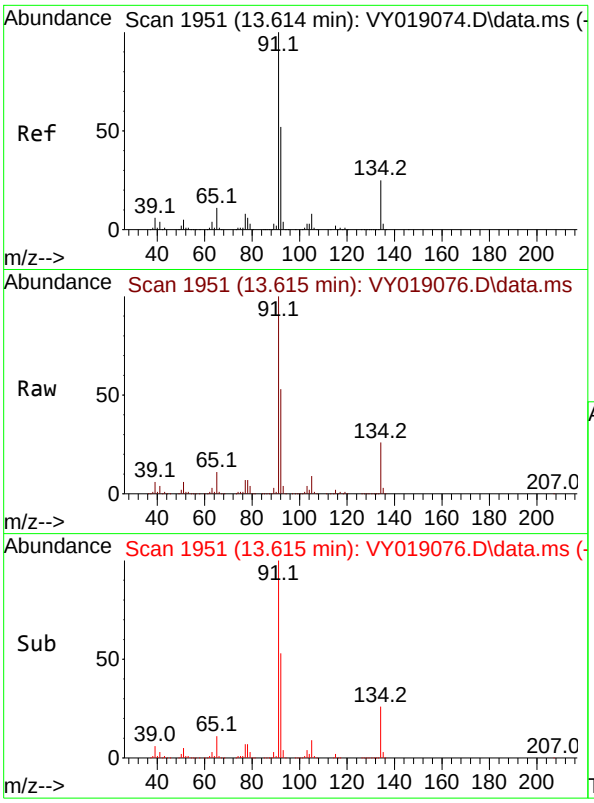


#88
1,4-Dichlorobenzene
Concen: 135.885 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:146 Resp: 506880

Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.4	55.4
148	63.7	32.4	97.2

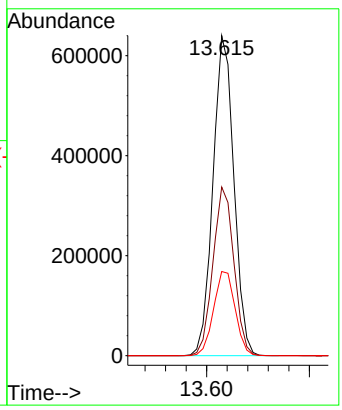




#89
n-Butylbenzene
Concen: 138.847 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 91 Resp: 90319

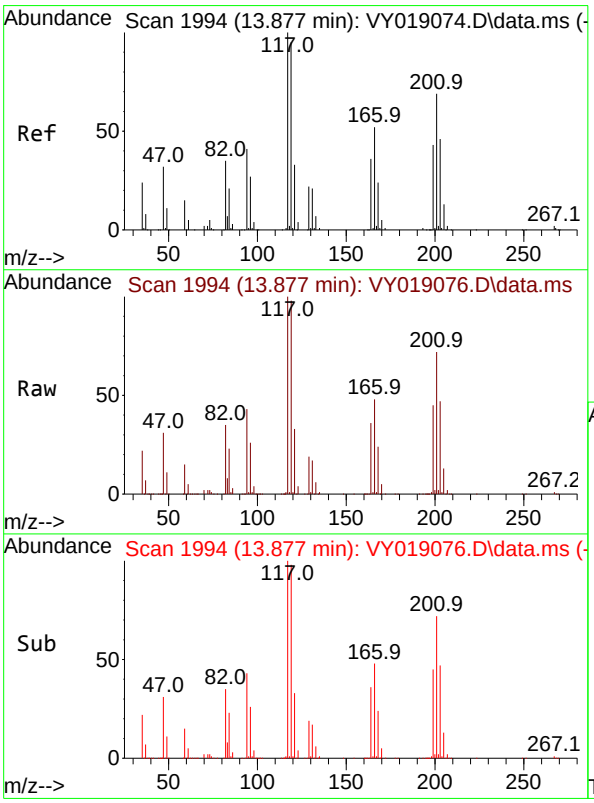
Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.6	79.7
134	27.2	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

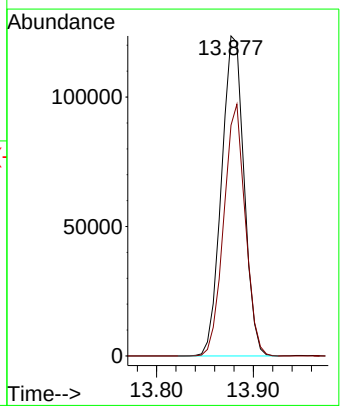
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

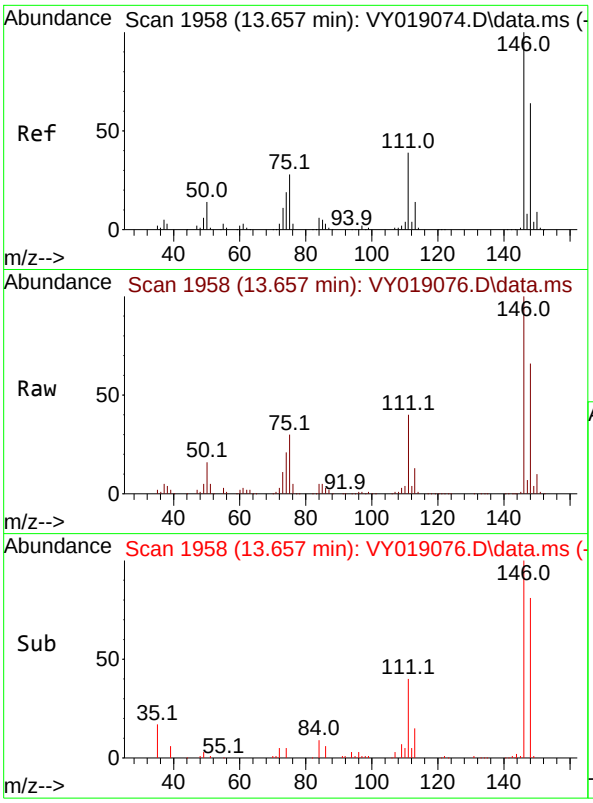


#90
Hexachloroethane
Concen: 141.965 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:117 Resp: 199647

Ion	Ratio	Lower	Upper
117	100		
201	74.9	37.4	112.2

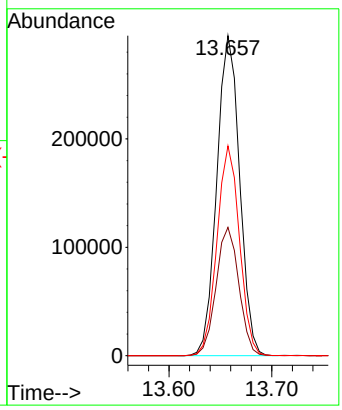




#91
1,2-Dichlorobenzene
Concen: 137.900 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:146 Resp: 45512

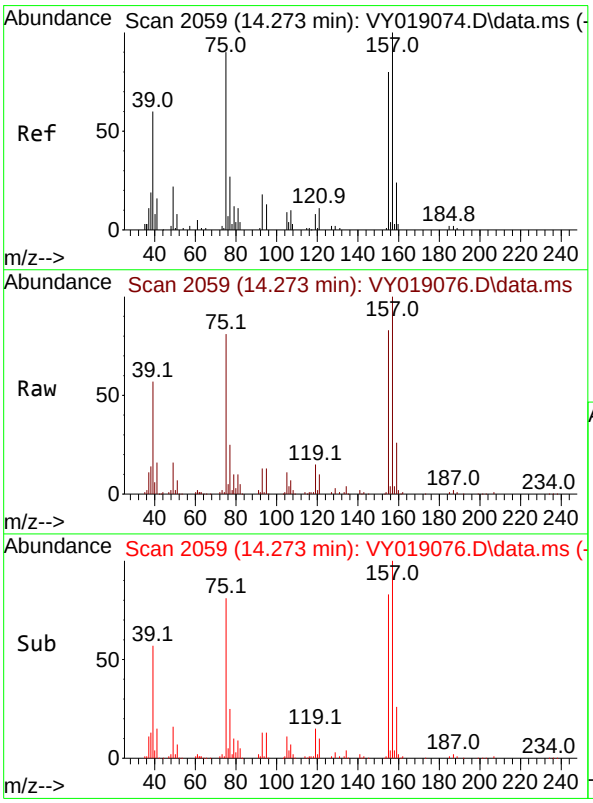
Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.9	59.7
148	64.5	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

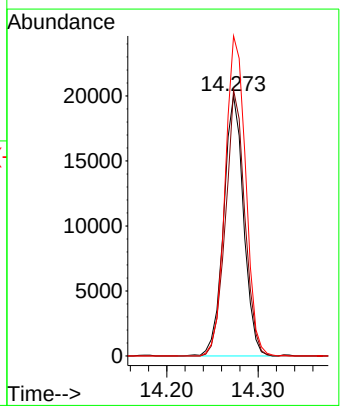
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

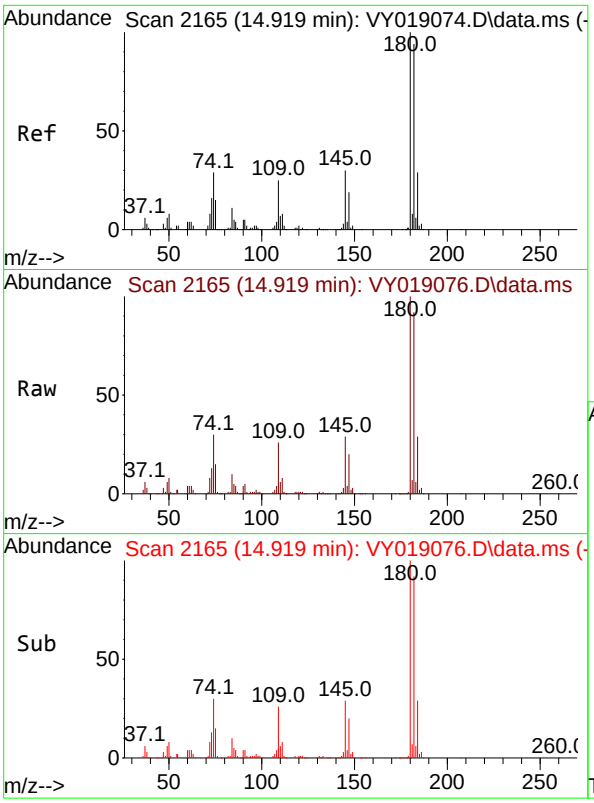


#92
1,2-Dibromo-3-Chloropropane
Concen: 146.473 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion: 75 Resp: 30394

Ion	Ratio	Lower	Upper
75	100		
155	98.2	48.6	145.8
157	125.7	62.7	188.2

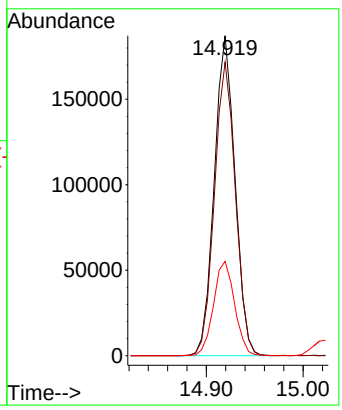




#93
1,2,4-Trichlorobenzene
Concen: 149.428 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:180 Resp: 27811

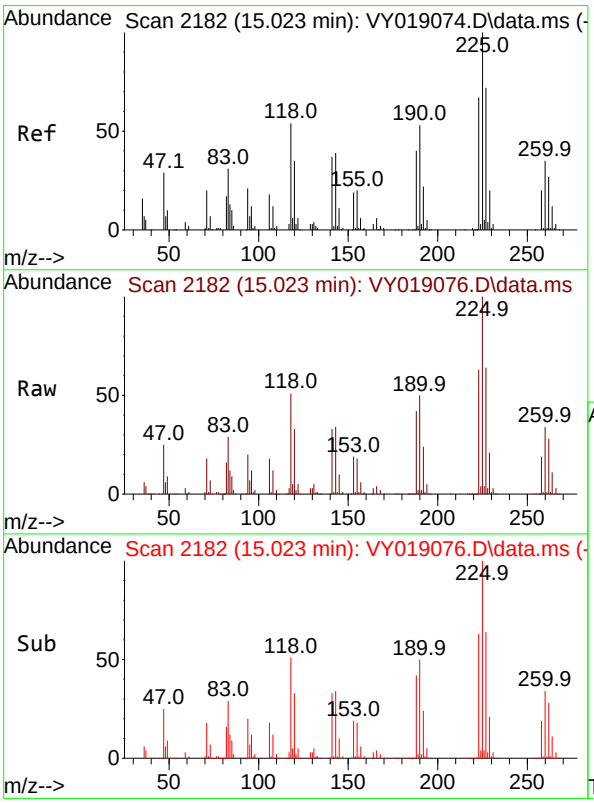
Ion	Ratio	Lower	Upper
180	100		
182	93.0	47.9	143.8
145	30.0	14.2	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

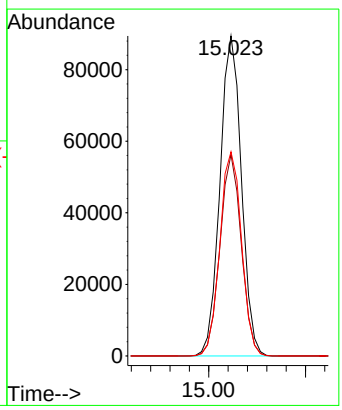
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

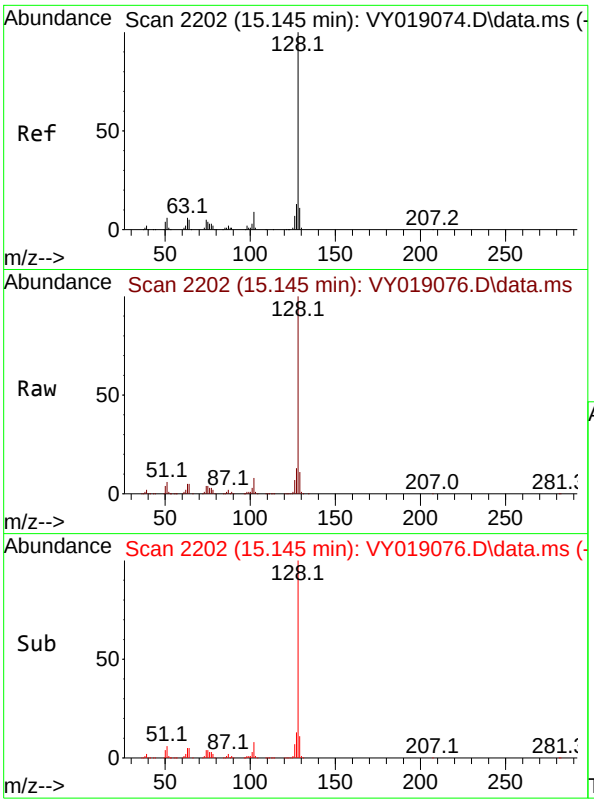


#94
Hexachlorobutadiene
Concen: 141.724 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:225 Resp: 137395

Ion	Ratio	Lower	Upper
225	100		
223	62.5	30.4	91.2
227	64.6	31.9	95.9

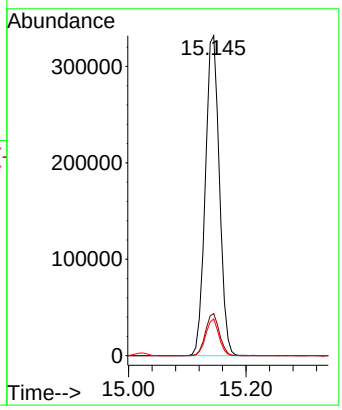




#95
Naphthalene
Concen: 165.633 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:128 Resp: 55018

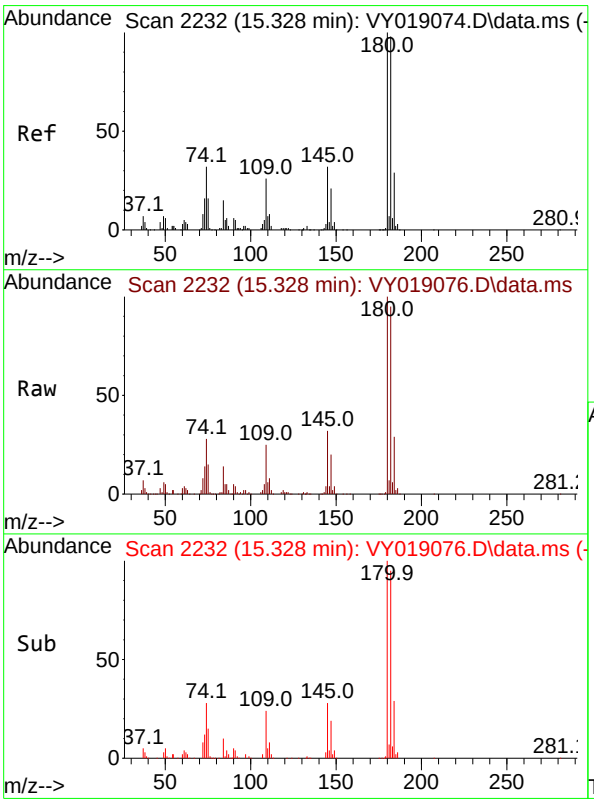
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	10.8	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

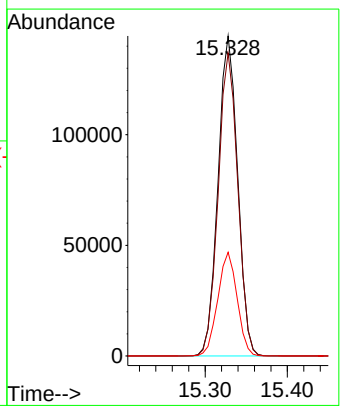
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024



#96
1,2,3-Trichlorobenzene
Concen: 152.861 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY019076.D
Acq: 15 Aug 2024 19:50

Tgt Ion:180 Resp: 239960

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.6	142.9
145	32.0	15.4	46.1



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019078.D
Acq On : 15 Aug 2024 20:39
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 16 05:13:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.695	168	137629	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.603	114	217486	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	190034	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	95069	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.048	65	66729	48.368	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.740%			
35) Dibromofluoromethane	7.622	113	70304	49.438	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.880%			
50) Toluene-d8	10.103	98	255566	49.940	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.880%			
62) 4-Bromofluorobenzene	12.401	95	89327	51.204	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 102.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	49339	48.862	ug/l	96
3) Chloromethane	2.068	50	84986	46.694	ug/l	100
4) Vinyl Chloride	2.196	62	103648	46.103	ug/l	99
5) Bromomethane	2.586	94	75076	55.321	ug/l	96
6) Chloroethane	2.726	64	66544	46.200	ug/l	99
7) Trichlorofluoromethane	3.043	101	153342	45.114	ug/l	93
8) Diethyl Ether	3.445	74	35564	48.474	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.805	101	68782	45.519	ug/l	97
10) Methyl Iodide	3.994	142	68548	46.281	ug/l	94
11) Tert butyl alcohol	4.835	59	30227	258.538	ug/l #	82
12) 1,1-Dichloroethene	3.775	96	64136	46.717	ug/l	97
13) Acrolein	3.641	56	26178	252.873	ug/l	96
14) Allyl chloride	4.366	41	86574	47.431	ug/l	92
15) Acrylonitrile	5.043	53	74494	248.151	ug/l	99
16) Acetone	3.854	43	58000	226.691	ug/l #	87
17) Carbon Disulfide	4.092	76	185421	47.885	ug/l	99
18) Methyl Acetate	4.372	43	37659	47.958	ug/l	95
19) Methyl tert-butyl Ether	5.104	73	162726	48.891	ug/l	95
20) Methylene Chloride	4.592	84	82773	52.630	ug/l	98
21) trans-1,2-Dichloroethene	5.098	96	73485	47.911	ug/l	94
22) Diisopropyl ether	6.006	45	199954	47.853	ug/l	95
23) Vinyl Acetate	5.945	43	810796	245.090	ug/l	99
24) 1,1-Dichloroethane	5.896	63	120124	47.009	ug/l	100
25) 2-Butanone	6.878	43	97061	235.558	ug/l	91
26) 2,2-Dichloropropane	6.872	77	93337	45.106	ug/l	98
27) cis-1,2-Dichloroethene	6.872	96	86633	47.996	ug/l	99
28) Bromochloromethane	7.231	49	50551	47.159	ug/l	100
29) Tetrahydrofuran	7.250	42	62308	235.236	ug/l	96
30) Chloroform	7.408	83	136022	47.771	ug/l	97
31) Cyclohexane	7.689	56	99272	50.332	ug/l	98
32) 1,1,1-Trichloroethane	7.603	97	122157	48.817	ug/l	98
36) 1,1-Dichloropropene	7.823	75	92114	47.172	ug/l	99
37) Ethyl Acetate	6.969	43	44392	51.311	ug/l	98
38) Carbon Tetrachloride	7.804	117	110399	48.784	ug/l	99
39) Methylcyclohexane	9.103	83	119514	47.693	ug/l	99
40) Benzene	8.067	78	287166	47.950	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019078.D
Acq On : 15 Aug 2024 20:39
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 16 05:13:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	27584m	58.415	ug/l		
42) 1,2-Dichloroethane	8.146	62	76516	47.312	ug/l		97
43) Isopropyl Acetate	8.182	43	85305	48.755	ug/l	#	82
44) Trichloroethene	8.853	130	79972	47.856	ug/l		97
45) 1,2-Dichloropropane	9.127	63	65565	49.136	ug/l		93
46) Dibromomethane	9.219	93	41807	48.307	ug/l		99
47) Bromodichloromethane	9.414	83	103667	48.824	ug/l		99
48) Methyl methacrylate	9.213	41	38530	49.412	ug/l	#	89
49) 1,4-Dioxane	9.219	88	10584	1009.560	ug/l	#	93
51) 4-Methyl-2-Pentanone	9.993	43	234825	252.864	ug/l		93
52) Toluene	10.164	92	190621	48.489	ug/l		98
53) t-1,3-Dichloropropene	10.389	75	88432	50.207	ug/l		99
54) cis-1,3-Dichloropropene	9.847	75	103846	49.024	ug/l	#	87
55) 1,1,2-Trichloroethane	10.566	97	54895	49.272	ug/l		97
56) Ethyl methacrylate	10.438	69	75640	51.869	ug/l	#	86
57) 1,3-Dichloropropane	10.712	76	90749	49.966	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	183842	265.740	ug/l		96
59) 2-Hexanone	10.755	43	157561	246.958	ug/l		95
60) Dibromochloromethane	10.908	129	75438	49.713	ug/l		99
61) 1,2-Dibromoethane	11.011	107	53530	49.710	ug/l		100
64) Tetrachloroethene	10.645	164	81433	49.025	ug/l		98
65) Chlorobenzene	11.438	112	209031	47.770	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.517	131	74284	48.274	ug/l		98
67) Ethyl Benzene	11.517	91	366722	48.286	ug/l		96
68) m/p-Xylenes	11.627	106	288509	95.737	ug/l		99
69) o-Xylene	11.950	106	138447	49.610	ug/l		99
70) Styrene	11.968	104	233760	49.120	ug/l		98
71) Bromoform	12.133	173	43368	49.301	ug/l	#	100
73) Isopropylbenzene	12.255	105	359538	49.343	ug/l		100
74) N-amyl acetate	12.072	43	80620	50.740	ug/l		92
75) 1,1,2,2-Tetrachloroethane	12.505	83	64209	49.497	ug/l		96
76) 1,2,3-Trichloropropane	12.554	75	43813m	46.731	ug/l		
77) Bromobenzene	12.529	156	82916	47.382	ug/l		99
78) n-propylbenzene	12.596	91	425016	48.793	ug/l		99
79) 2-Chlorotoluene	12.676	91	240222	49.190	ug/l		99
80) 1,3,5-Trimethylbenzene	12.736	105	291472	49.102	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	17948	47.278	ug/l		91
82) 4-Chlorotoluene	12.779	91	246401	48.497	ug/l		99
83) tert-Butylbenzene	12.999	119	267705	48.835	ug/l		99
84) 1,2,4-Trimethylbenzene	13.041	105	285674	48.287	ug/l		100
85) sec-Butylbenzene	13.175	105	389071	48.704	ug/l		99
86) p-Isopropyltoluene	13.291	119	323385	49.284	ug/l		96
87) 1,3-Dichlorobenzene	13.285	146	166872	48.354	ug/l		98
88) 1,4-Dichlorobenzene	13.364	146	163955	47.793	ug/l		98
89) n-Butylbenzene	13.614	91	297675	49.759	ug/l		99
90) Hexachloroethane	13.877	117	64315	49.728	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	145892	48.066	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	8812	46.176	ug/l		94
93) 1,2,4-Trichlorobenzene	14.919	180	85082	49.706	ug/l		98
94) Hexachlorobutadiene	15.023	225	47514	53.292	ug/l		99
95) Naphthalene	15.145	128	159988	52.371	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	74591	51.667	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019078.D
Acq On : 15 Aug 2024 20:39
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

Quant Time: Aug 16 05:13:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

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

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

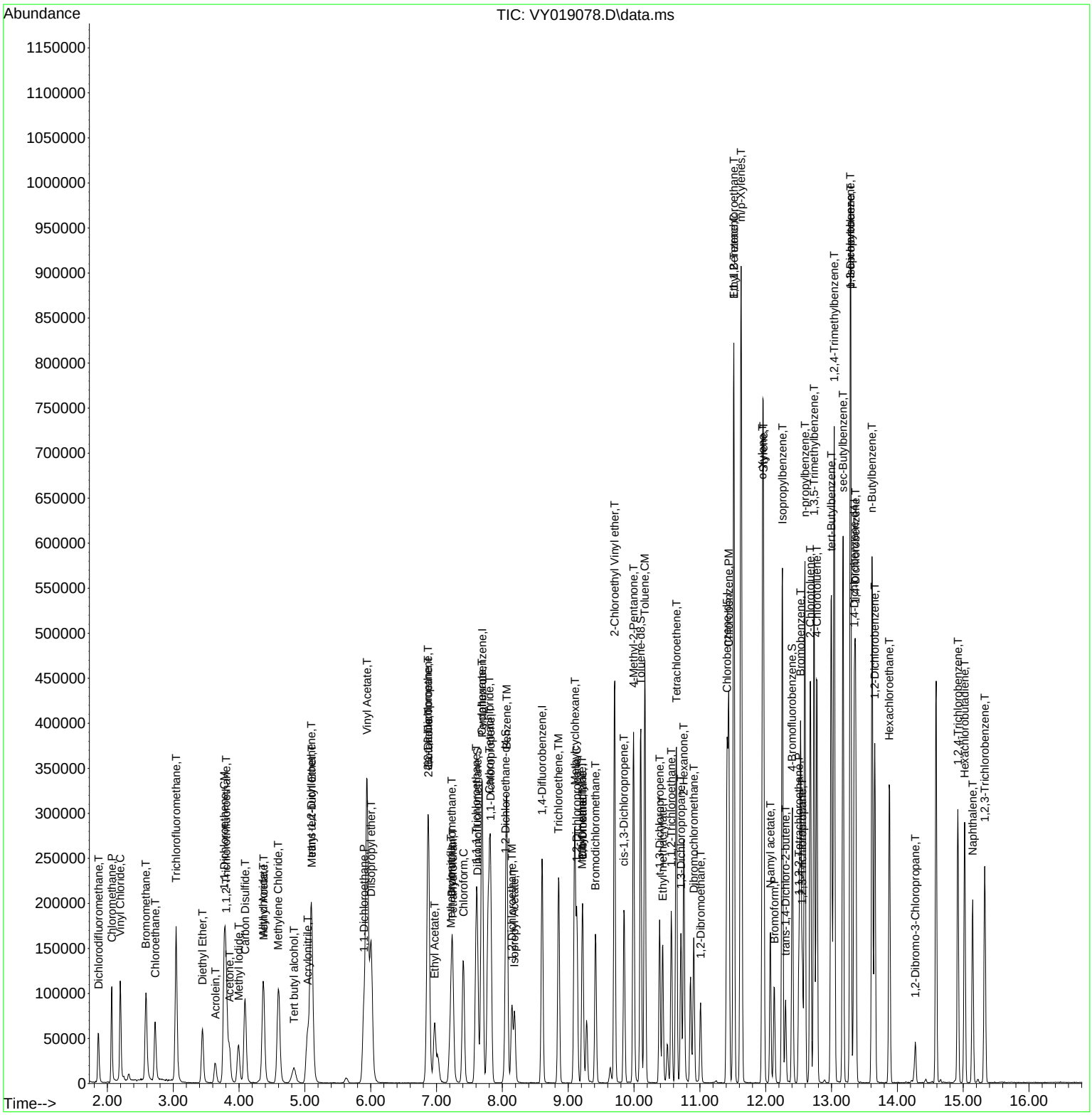
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019078.D
Acq On : 15 Aug 2024 20:39
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

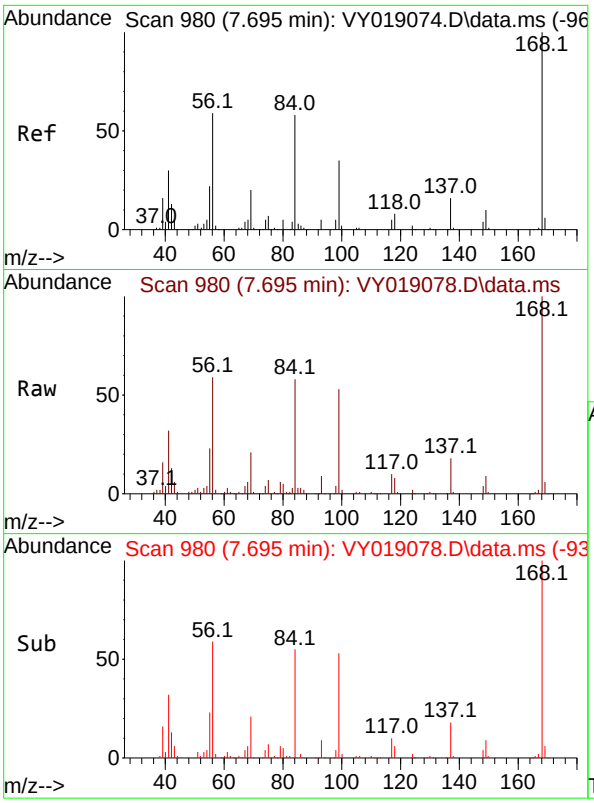
Quant Time: Aug 16 05:13:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

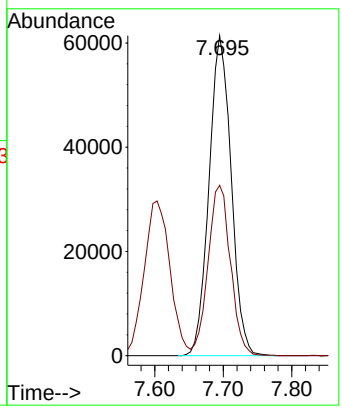




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:168 Resp: 13762

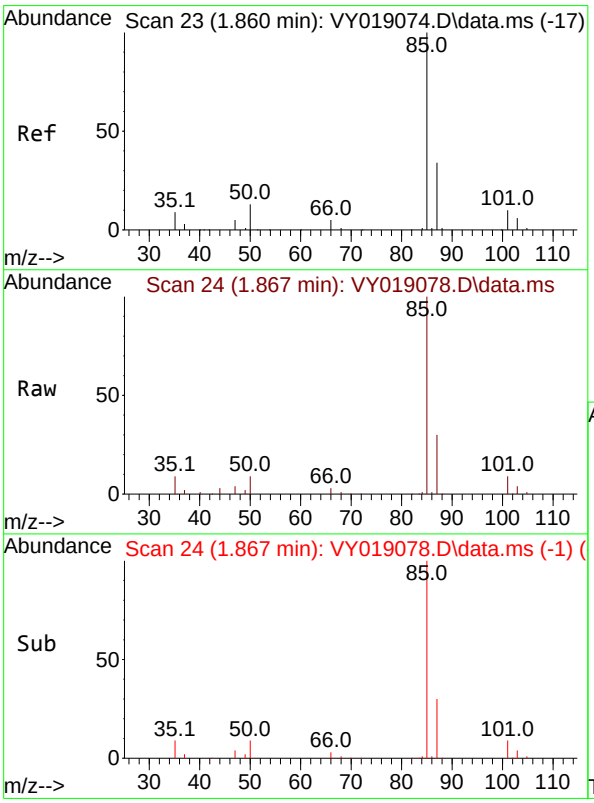
Ion	Ratio	Lower	Upper
168	100		
99	53.2	39.1	58.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

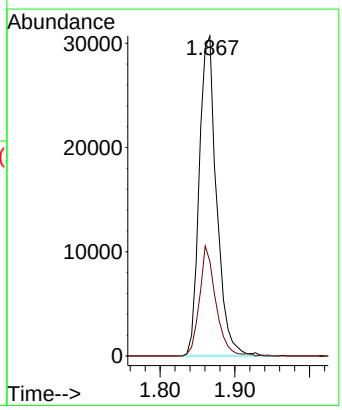
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

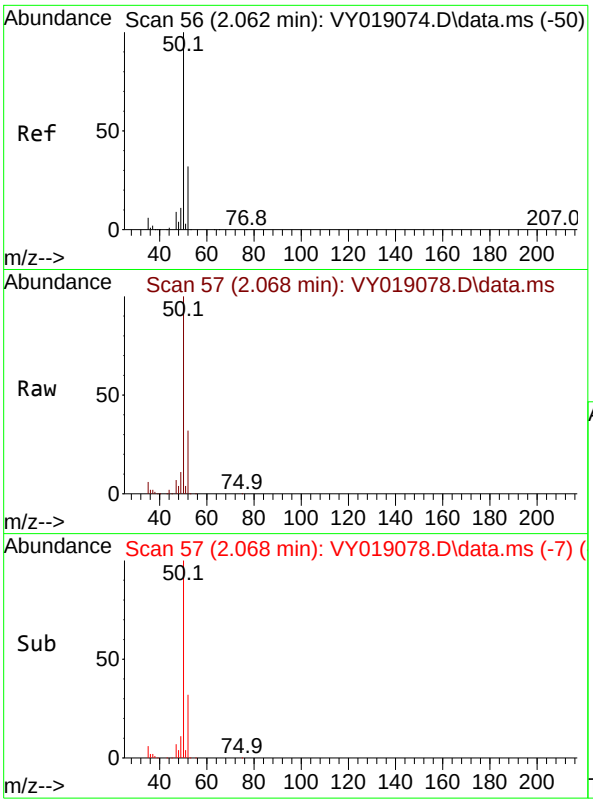


#2
Dichlorodifluoromethane
Concen: 48.862 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 85 Resp: 49339

Ion	Ratio	Lower	Upper
85	100		
87	29.5	16.0	48.0

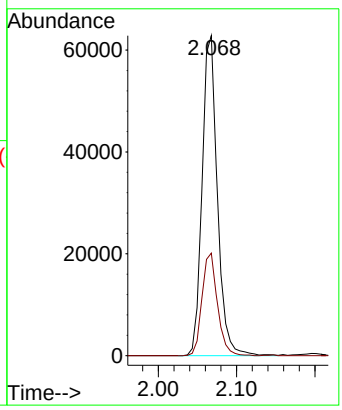




#3
Chloromethane
Concen: 46.694 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 50 Resp: 8498

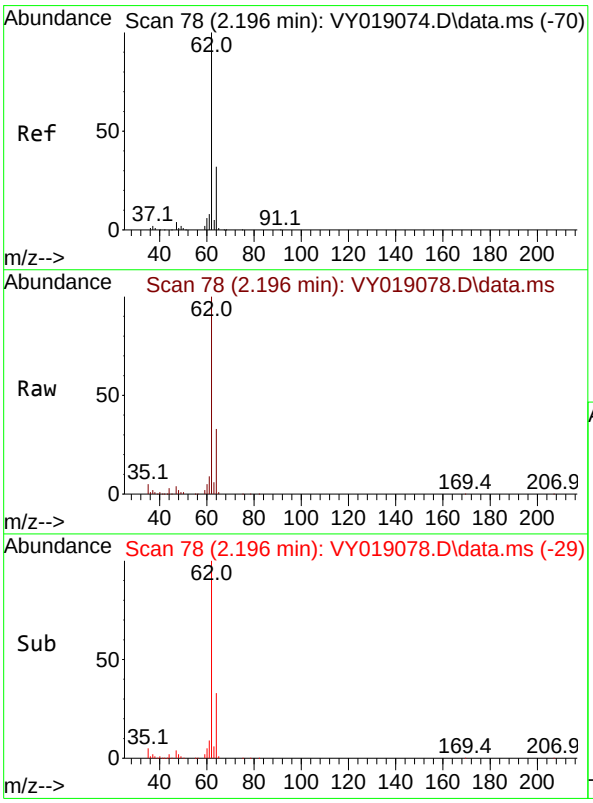
Ion	Ratio	Lower	Upper
50	100		
52	32.0	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

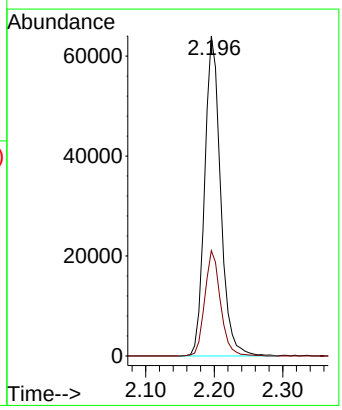
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

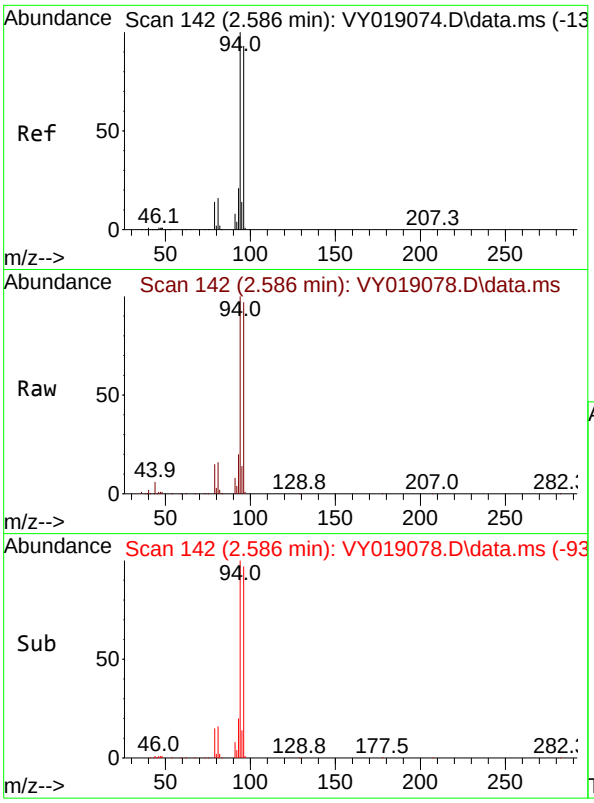


#4
Vinyl Chloride
Concen: 46.103 ug/l
RT: 2.196 min Scan# 78
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 62 Resp: 103648

Ion	Ratio	Lower	Upper
62	100		
64	32.9	26.1	39.1

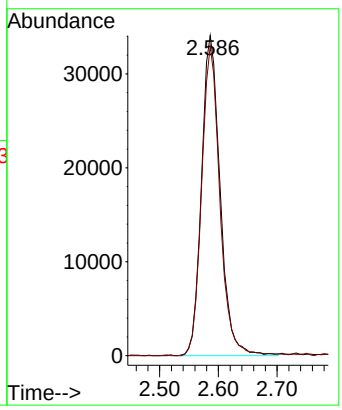




#5
Bromomethane
Concen: 55.321 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 94 Resp: 7507

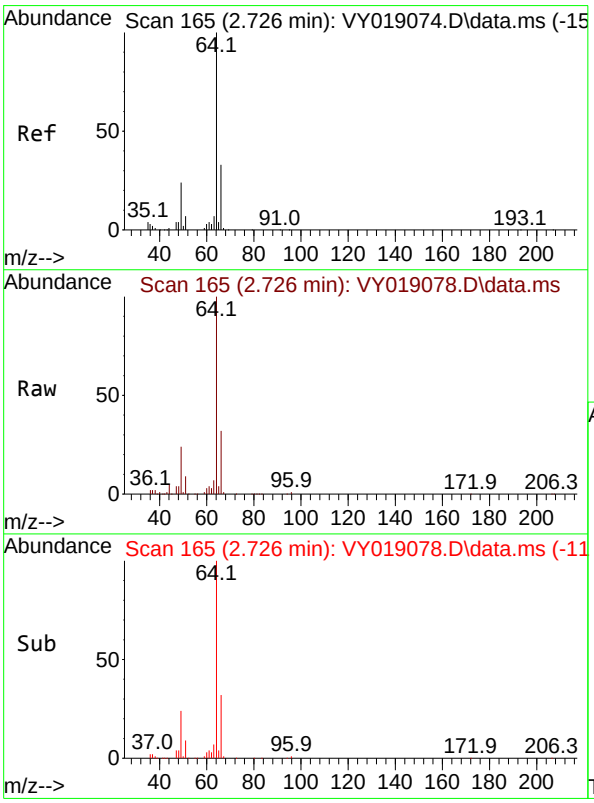
Ion	Ratio	Lower	Upper
94	100		
96	96.8	74.1	111.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

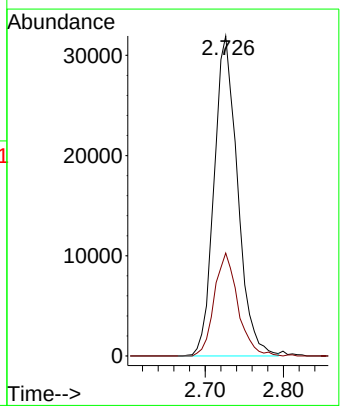
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

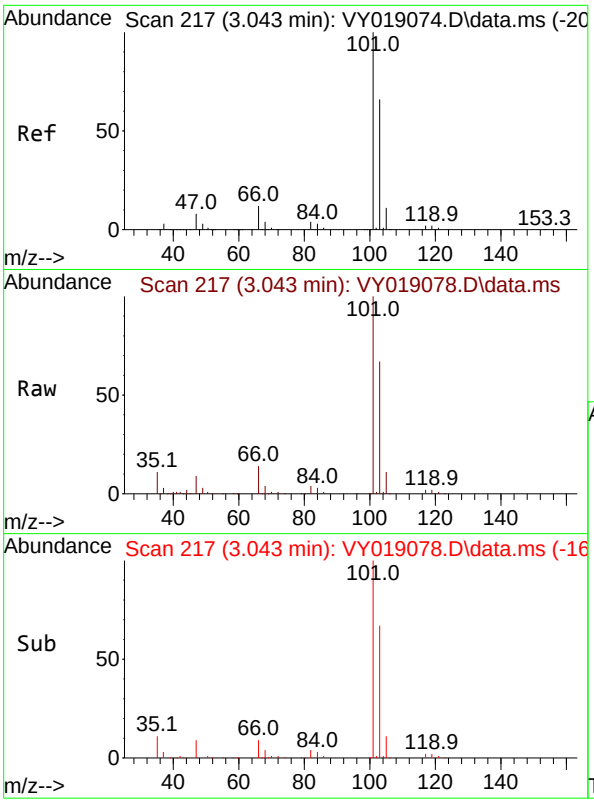


#6
Chloroethane
Concen: 46.200 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 64 Resp: 66544

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.1	39.1

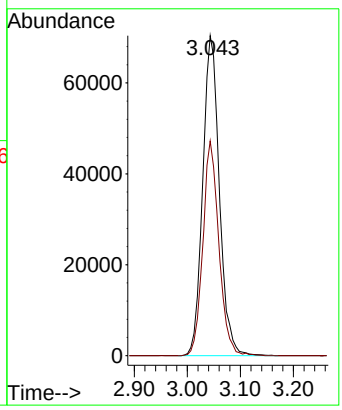




#7
Trichlorofluoromethane
Concen: 45.114 ug/l
RT: 3.043 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:101 Resp: 15334

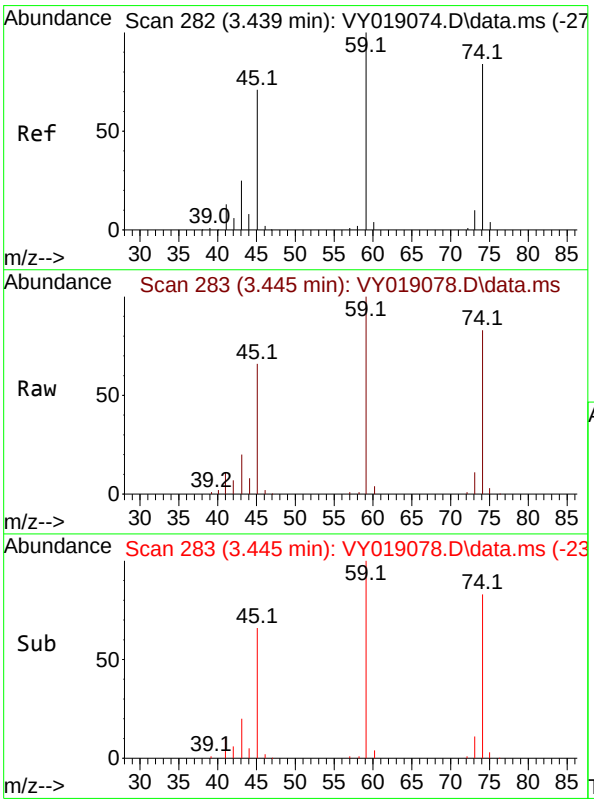
Ion	Ratio	Lower	Upper
101	100		
103	67.1	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

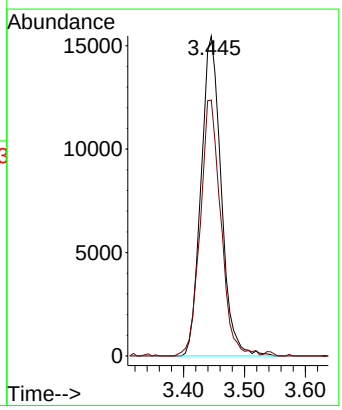
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

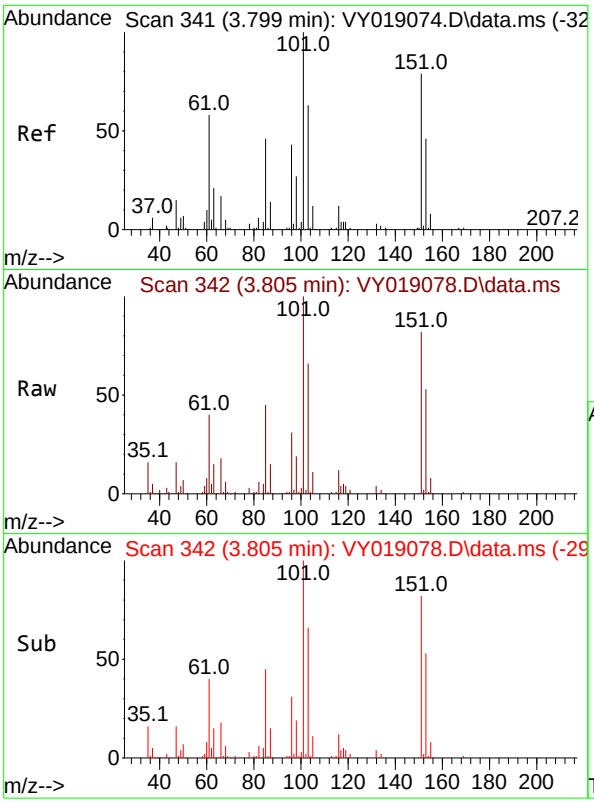


#8
Diethyl Ether
Concen: 48.474 ug/l
RT: 3.445 min Scan# 283
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 74 Resp: 35564

Ion	Ratio	Lower	Upper
74	100		
45	81.5	41.3	124.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.519 ug/l
RT: 3.805 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

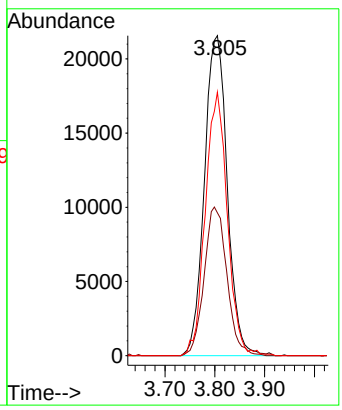
Tgt Ion:101 Resp: 6878

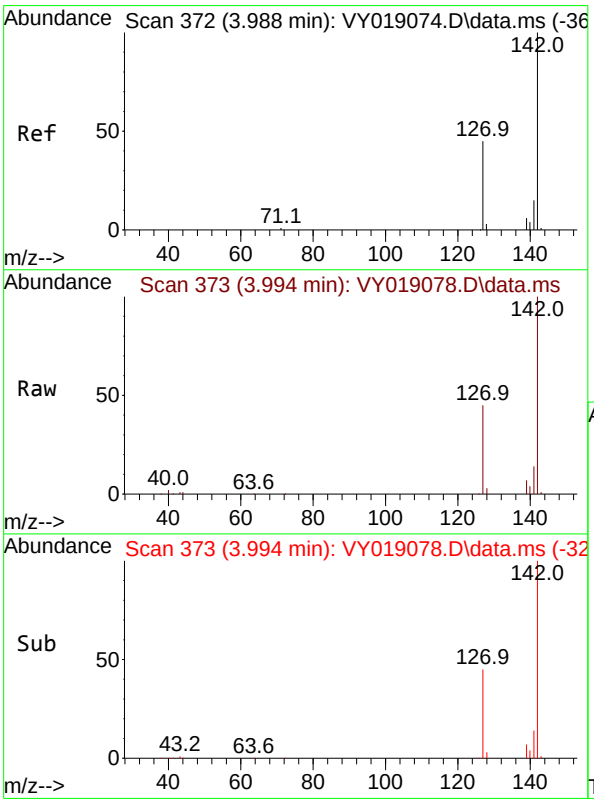
Ion	Ratio	Lower	Upper
101	100		
85	46.1	34.5	51.7
151	79.3	61.7	92.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

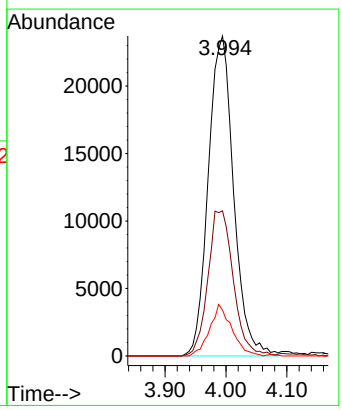


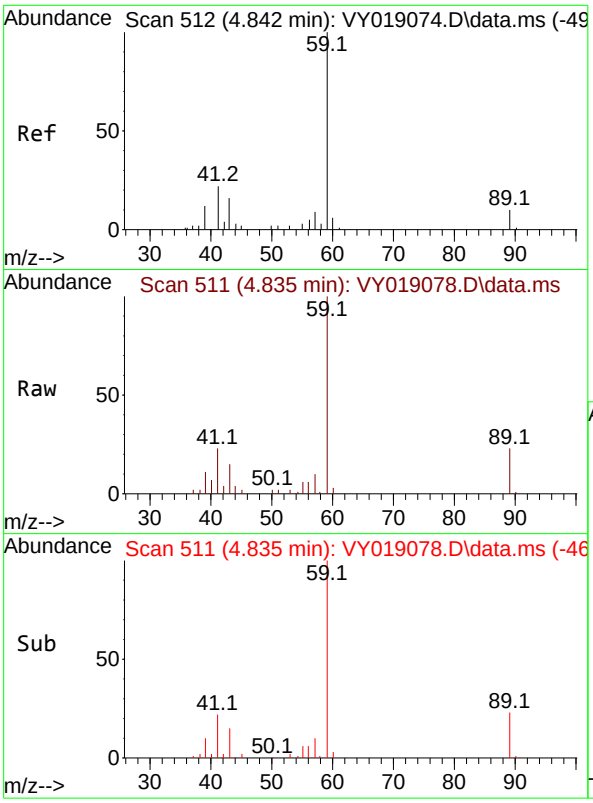


#10
Methyl Iodide
Concen: 46.281 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:142 Resp: 68548

Ion	Ratio	Lower	Upper
142	100		
127	45.5	32.8	49.2
141	14.1	11.4	17.2

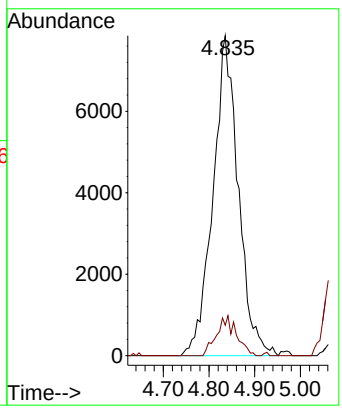




#11
Tert butyl alcohol
Concen: 258.538 ug/l
RT: 4.835 min Scan# 5
Delta R.T. -0.007 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 59 Resp: 3022

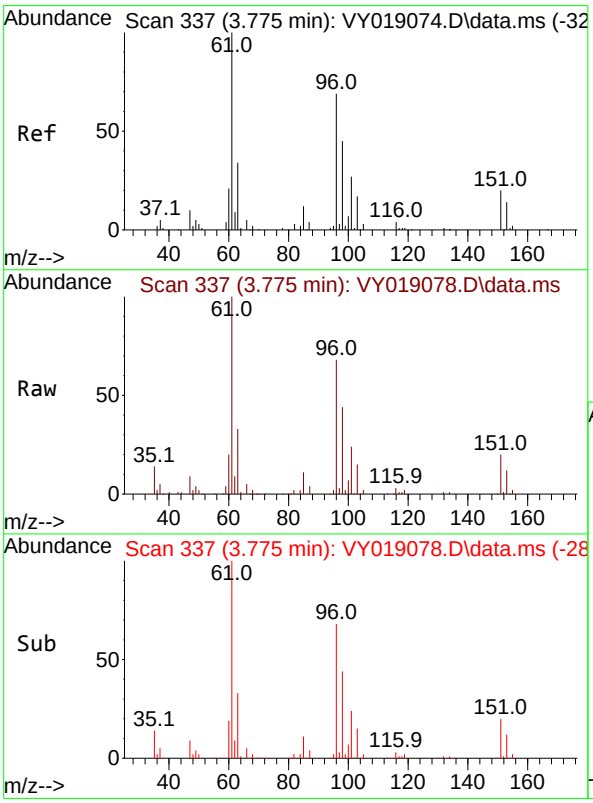
Ion	Ratio	Lower	Upper
59	100		
57	9.7	3.0	4.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

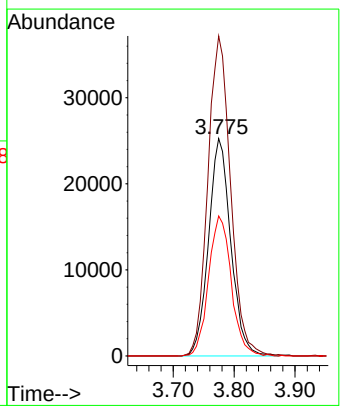
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

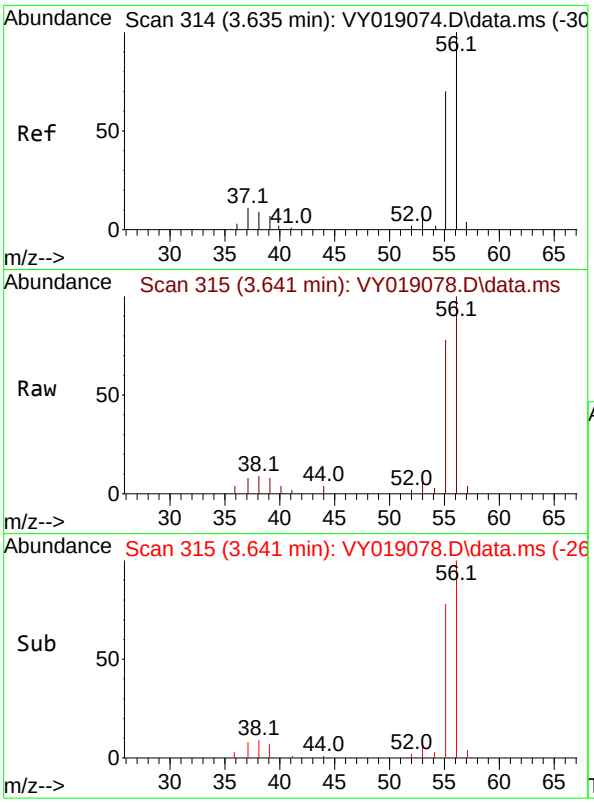


#12
1,1-Dichloroethene
Concen: 46.717 ug/l
RT: 3.775 min Scan# 337
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 96 Resp: 64136

Ion	Ratio	Lower	Upper
96	100		
61	147.1	114.6	171.8
98	64.4	50.8	76.2

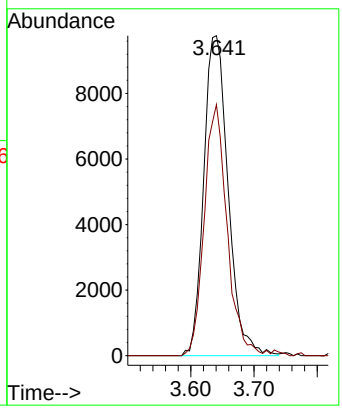




#13
Acrolein
Concen: 252.873 ug/l
RT: 3.641 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 56 Resp: 2617

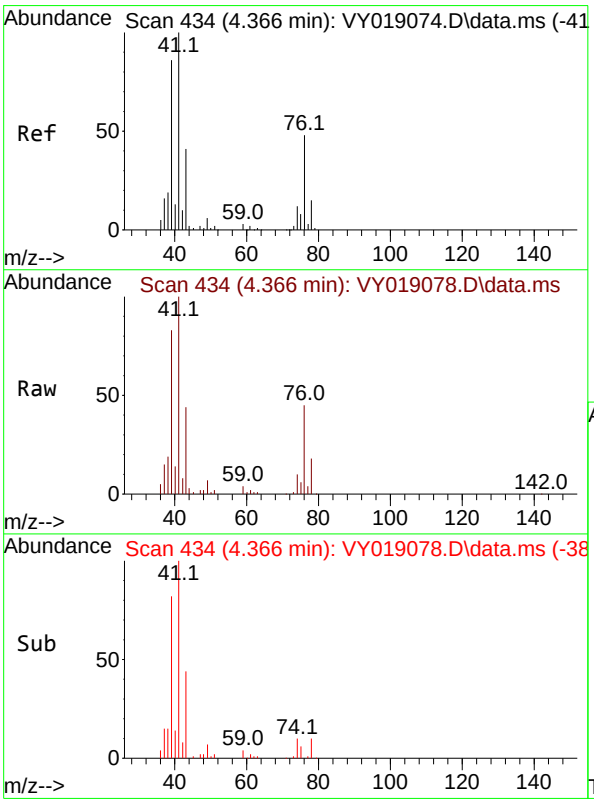
Ion	Ratio	Lower	Upper
56	100		
55	73.2	55.7	83.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

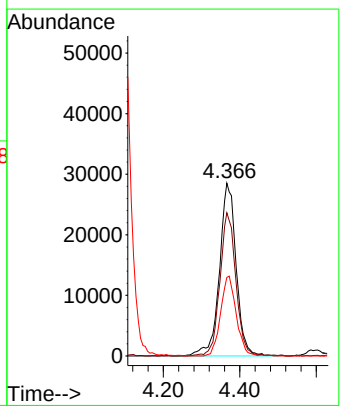
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

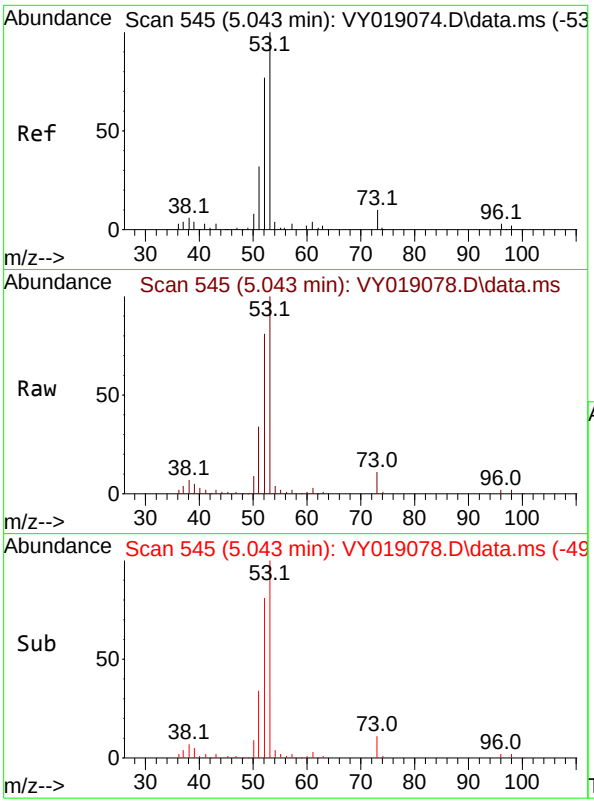


#14
Allyl chloride
Concen: 47.431 ug/l
RT: 4.366 min Scan# 434
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 41 Resp: 86574

Ion	Ratio	Lower	Upper
41	100		
39	78.9	58.3	87.5
76	43.0	39.0	58.6

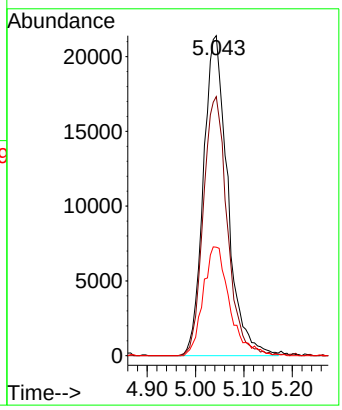




#15
Acrylonitrile
Concen: 248.151 ug/l
RT: 5.043 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 53 Resp: 7449

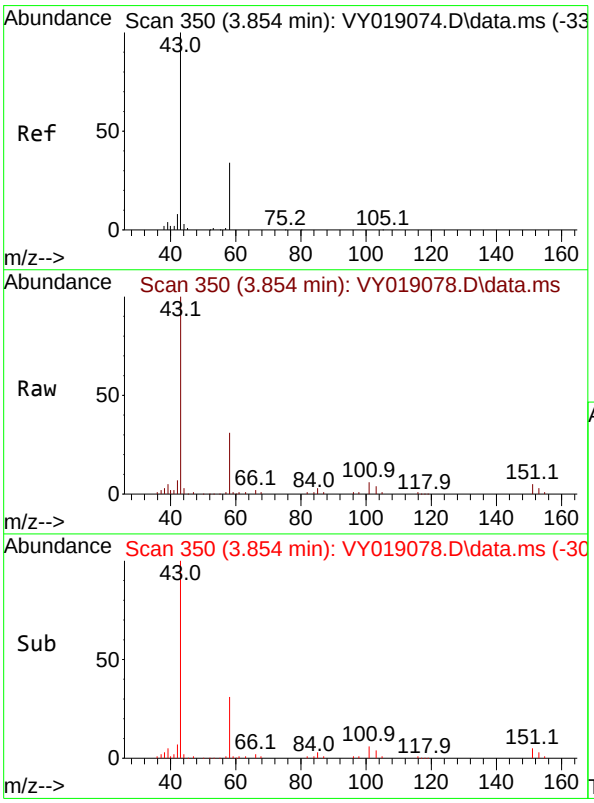
Ion	Ratio	Lower	Upper
53	100		
52	80.2	64.7	97.1
51	37.2	28.4	42.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

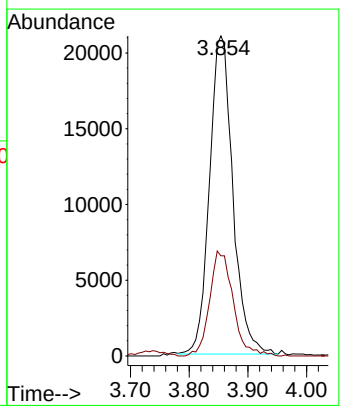
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

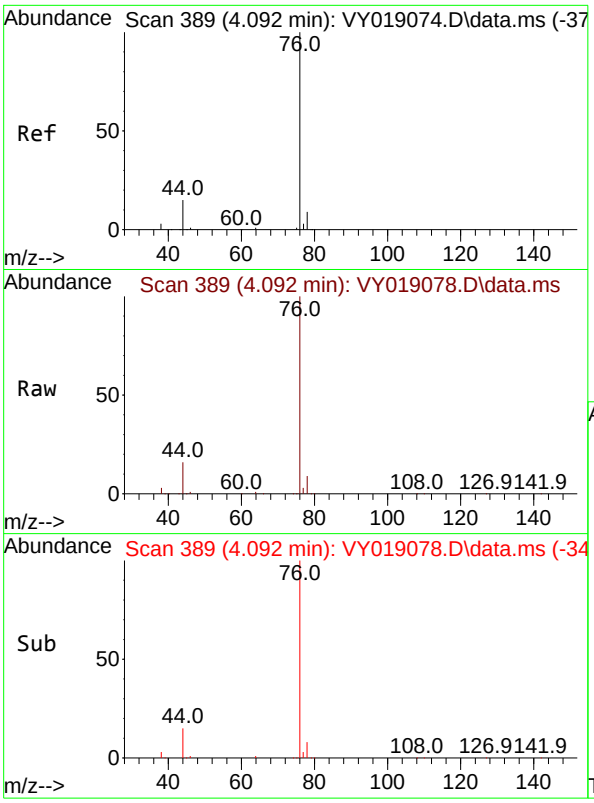


#16
Acetone
Concen: 226.691 ug/l
RT: 3.854 min Scan# 350
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 43 Resp: 58000

Ion	Ratio	Lower	Upper
43	100		
58	31.5	31.7	47.5#





#17
Carbon Disulfide
Concen: 47.885 ug/l
RT: 4.092 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

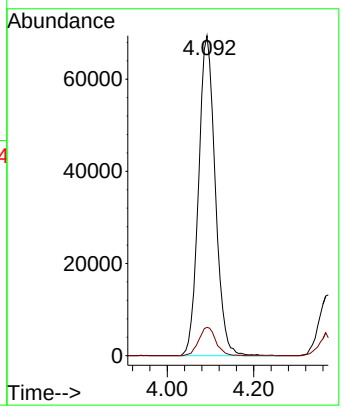
Tgt Ion: 76 Resp: 18542

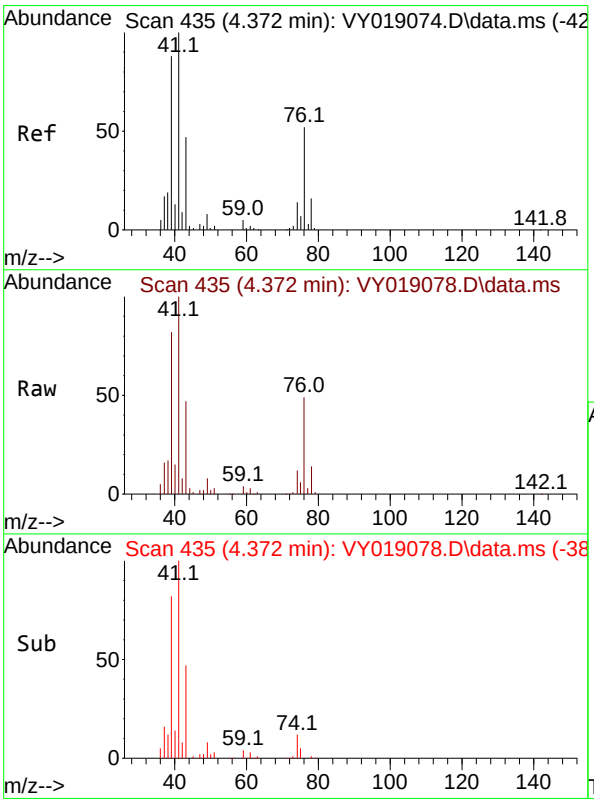
Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

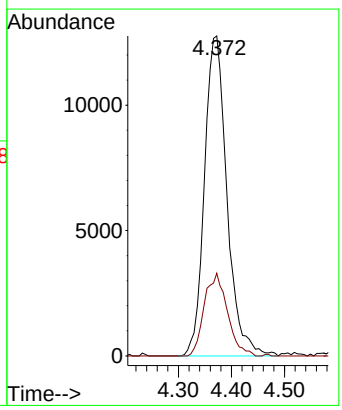


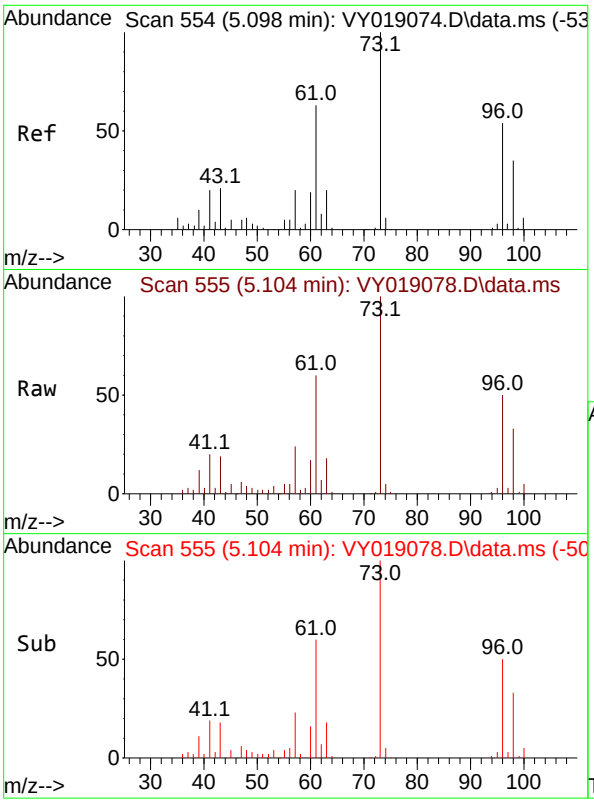


#18
Methyl Acetate
Concen: 47.958 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 43 Resp: 37659

Ion	Ratio	Lower	Upper
43	100		
74	26.5	23.3	34.9

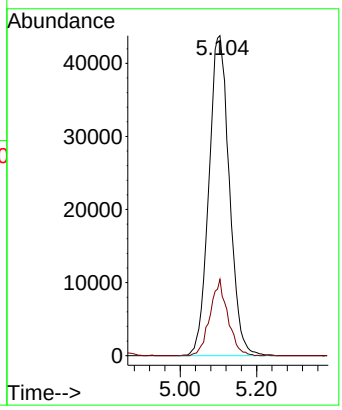




#19
Methyl tert-butyl Ether
Concen: 48.891 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 73 Resp: 16272

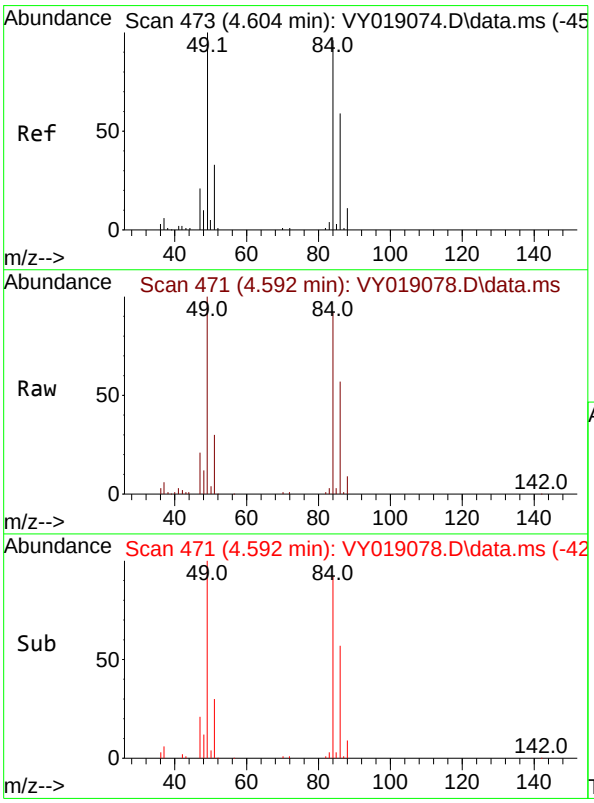
Ion	Ratio	Lower	Upper
73	100		
57	23.8	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

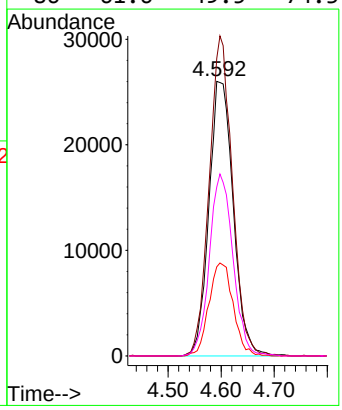
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

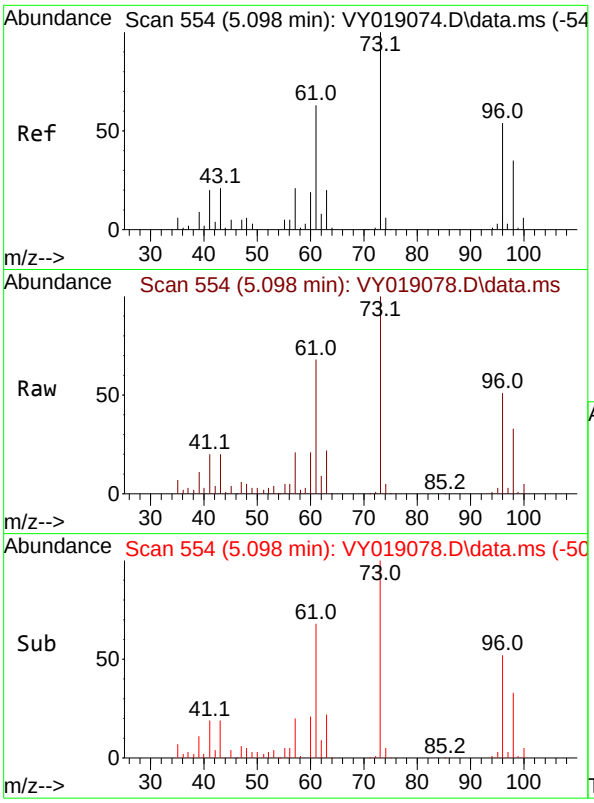


#20
Methylene Chloride
Concen: 52.630 ug/l
RT: 4.592 min Scan# 471
Delta R.T. -0.012 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 84 Resp: 82773

Ion	Ratio	Lower	Upper
84	100		
49	108.4	84.4	126.6
51	32.4	26.0	39.0
86	61.6	49.5	74.3

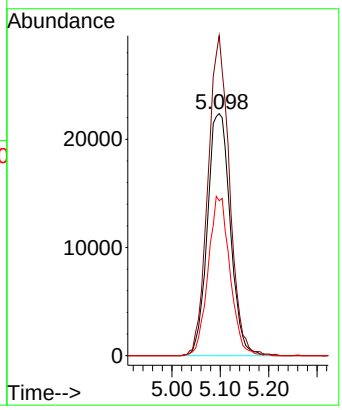




#21
trans-1,2-Dichloroethene
Concen: 47.911 ug/l
RT: 5.098 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 96 Resp: 7348

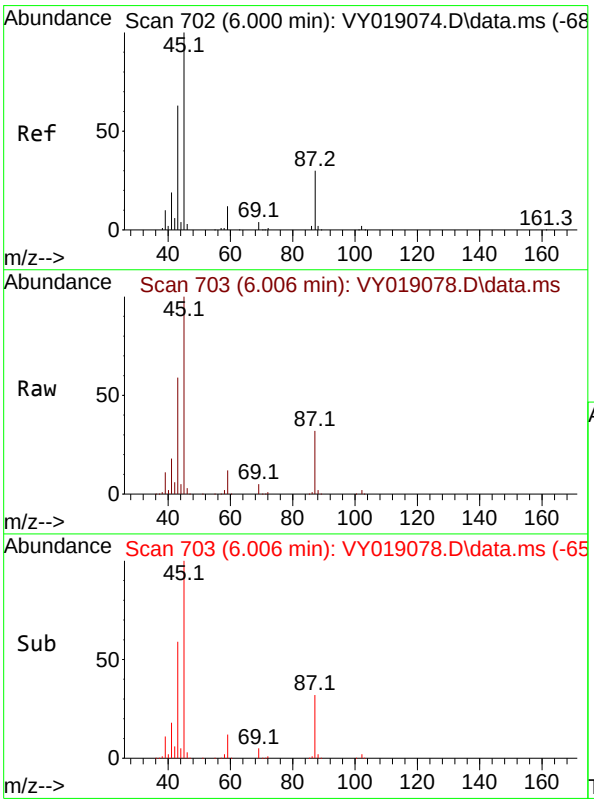
Ion	Ratio	Lower	Upper
96	100		
61	132.2	97.5	146.3
98	64.1	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

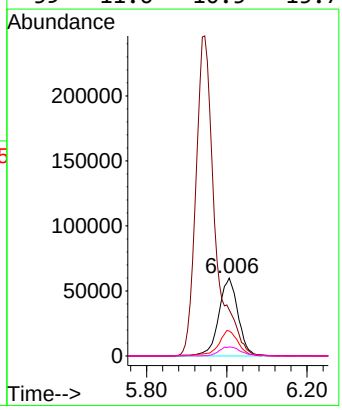
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

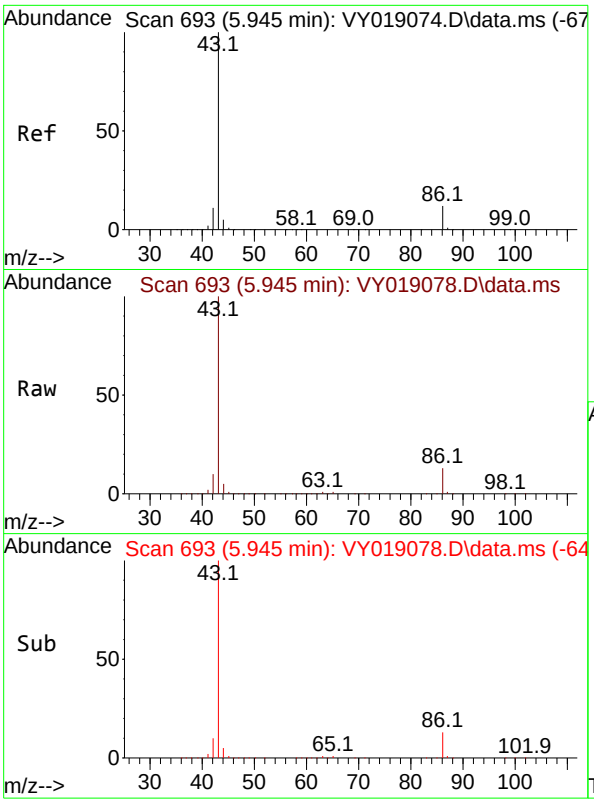


#22
Diisopropyl ether
Concen: 47.853 ug/l
RT: 6.006 min Scan# 703
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 45 Resp: 199954

Ion	Ratio	Lower	Upper
45	100		
43	58.7	42.2	63.2
87	32.0	25.0	37.6
59	11.6	10.5	15.7





#23
Vinyl Acetate
Concen: 245.090 ug/l
RT: 5.945 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

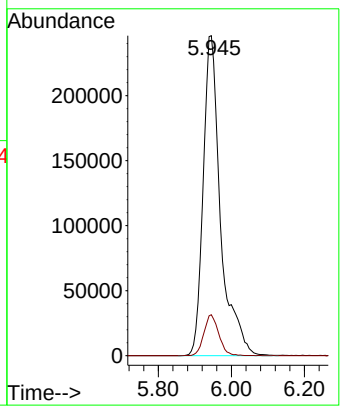
Tgt Ion: 43 Resp: 81079

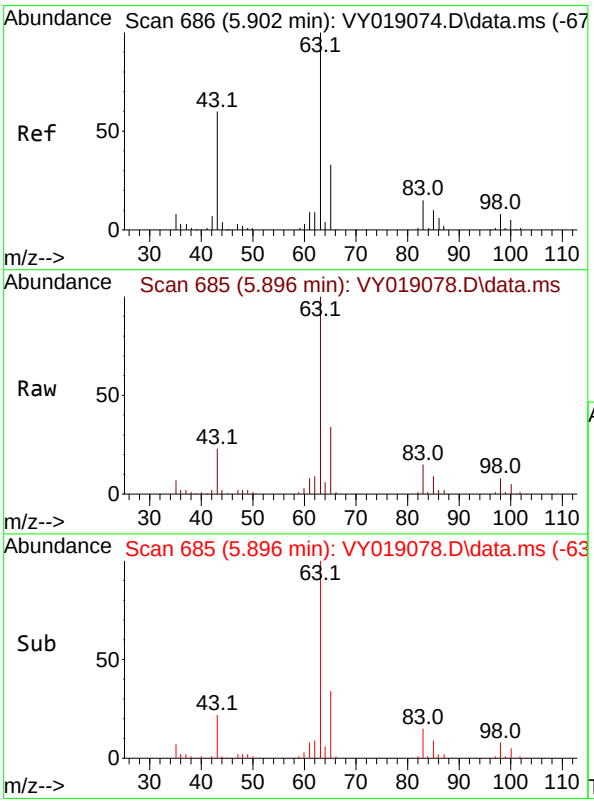
Ion	Ratio	Lower	Upper
43	100		
86	12.8	10.6	16.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

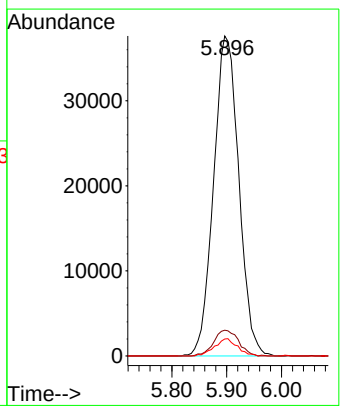


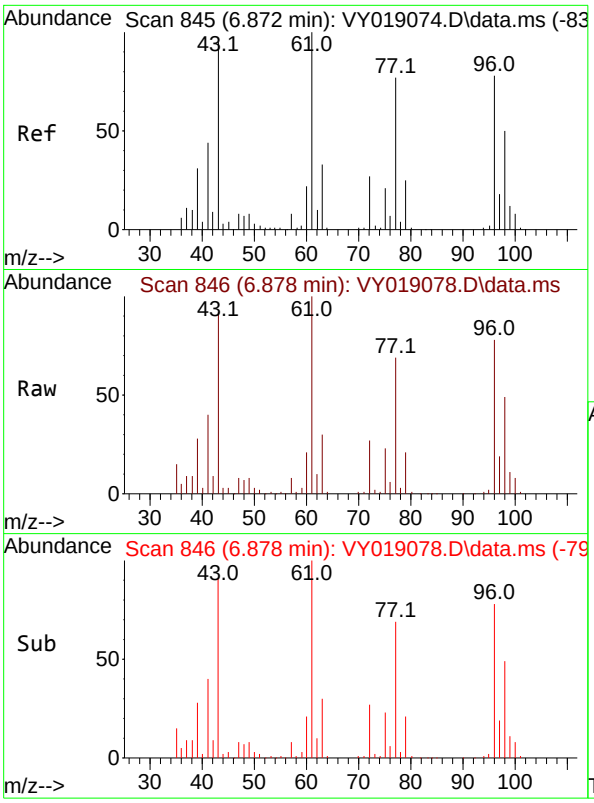


#24
1,1-Dichloroethane
Concen: 47.009 ug/l
RT: 5.896 min Scan# 685
Delta R.T. -0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 63 Resp: 120124

Ion	Ratio	Lower	Upper
63	100		
98	8.1	4.0	12.2
100	5.3	2.6	8.0





#25
2-Butanone
Concen: 235.558 ug/l
RT: 6.878 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

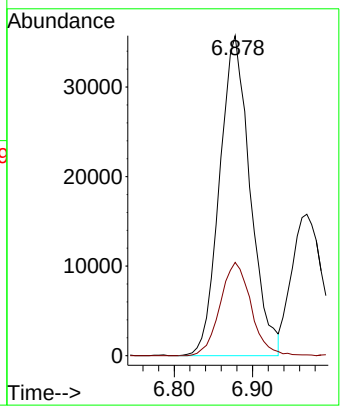
Tgt Ion: 43 Resp: 9706

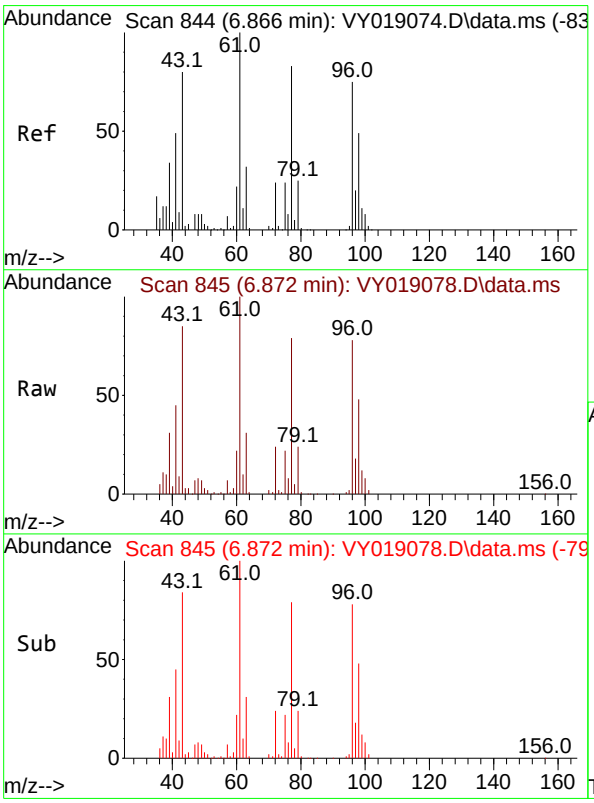
Ion	Ratio	Lower	Upper
43	100		
72	29.2	27.3	40.9

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

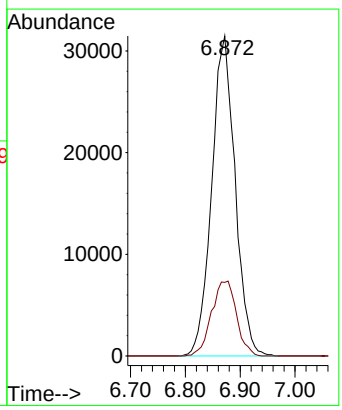


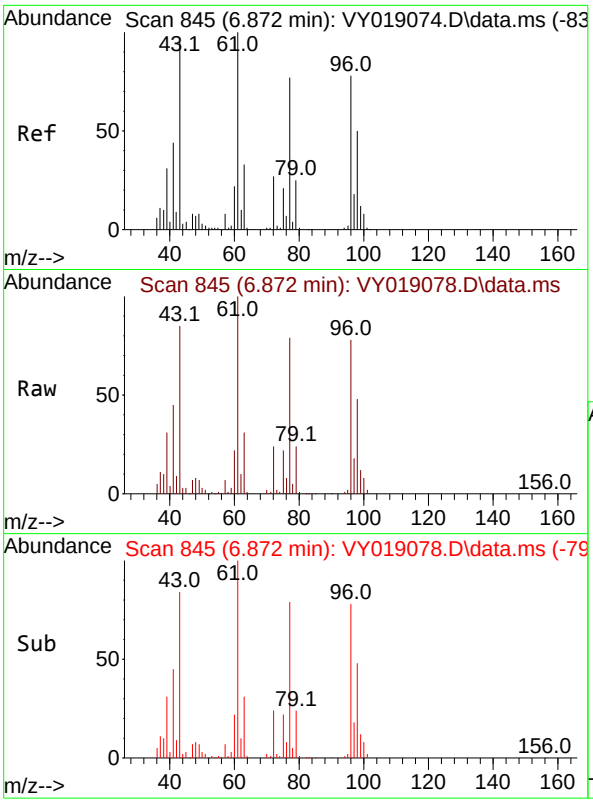


#26
2,2-Dichloropropane
Concen: 45.106 ug/l
RT: 6.872 min Scan# 845
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 77 Resp: 93337

Ion	Ratio	Lower	Upper
77	100		
97	24.9	12.0	36.1

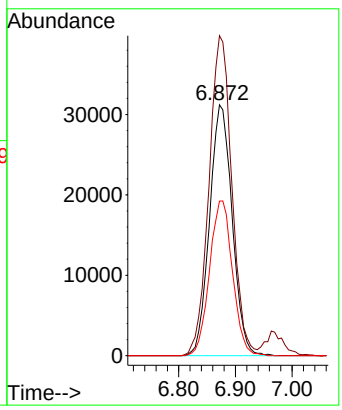




#27
cis-1,2-Dichloroethene
Concen: 47.996 ug/l
RT: 6.872 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 96 Resp: 8663

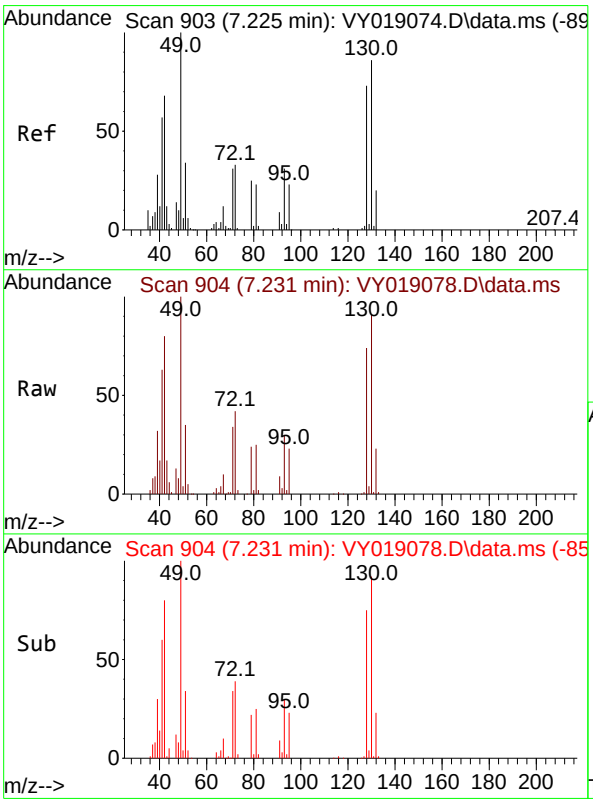
Ion	Ratio	Lower	Upper
96	100		
61	128.6	0.0	256.2
98	62.6	0.0	130.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

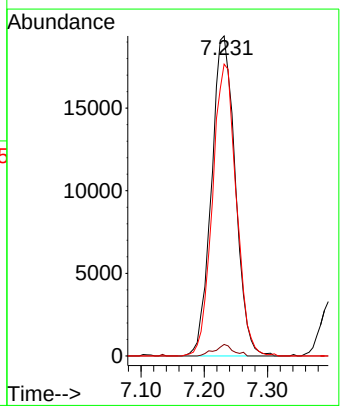
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

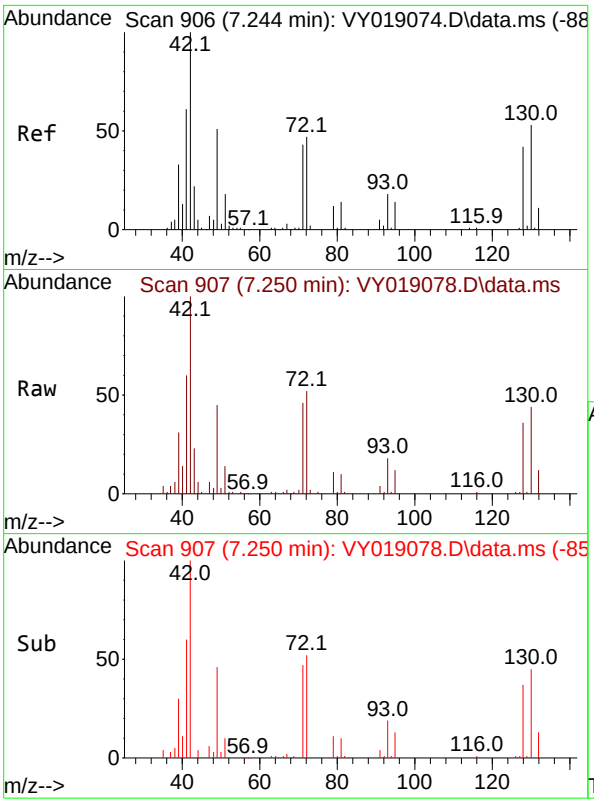


#28
Bromochloromethane
Concen: 47.159 ug/l
RT: 7.231 min Scan# 904
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 49 Resp: 50551

Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	4.6
130	91.2	72.7	109.1

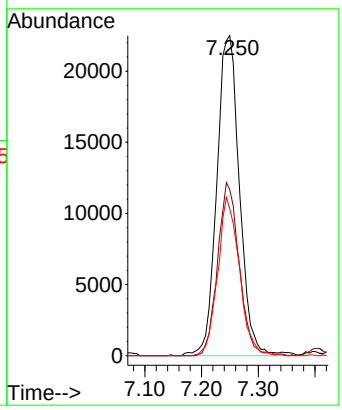




#29
Tetrahydrofuran
Concen: 235.236 ug/l
RT: 7.250 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 42 Resp: 6230

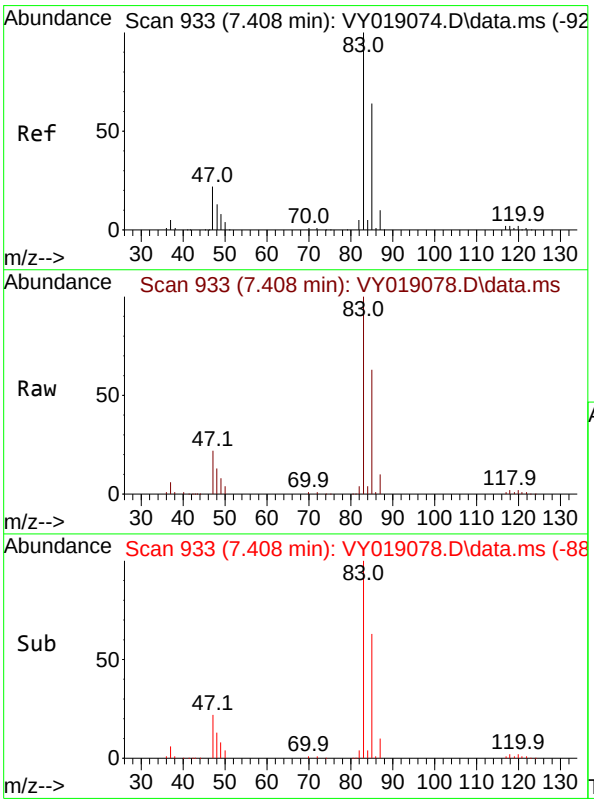
Ion	Ratio	Lower	Upper
42	100		
72	51.5	43.0	64.4
71	47.3	40.8	61.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

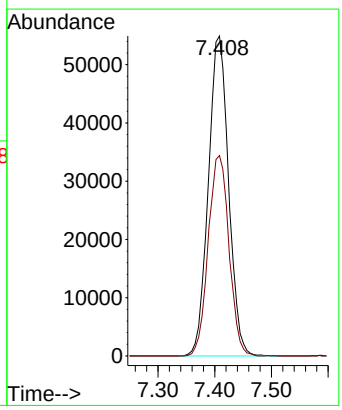
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

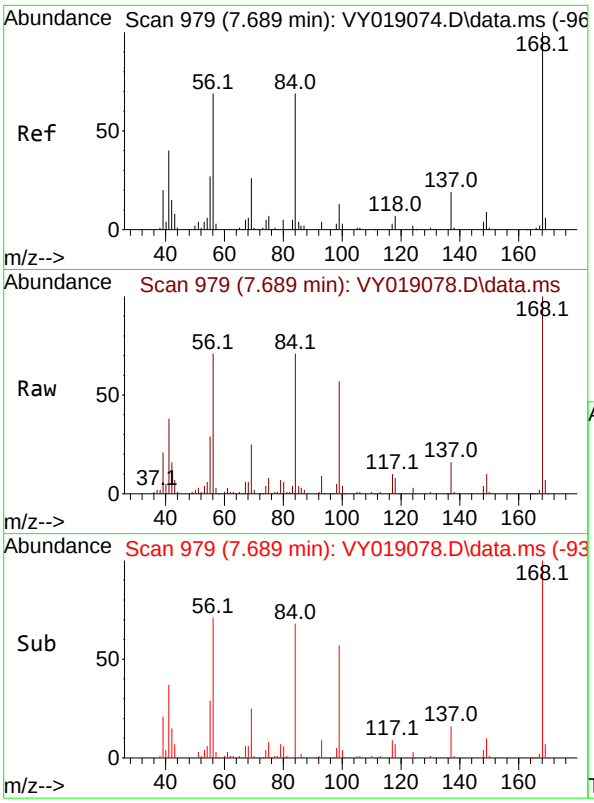


#30
Chloroform
Concen: 47.771 ug/l
RT: 7.408 min Scan# 933
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 83 Resp: 136022

Ion	Ratio	Lower	Upper
83	100		
85	62.7	52.2	78.4

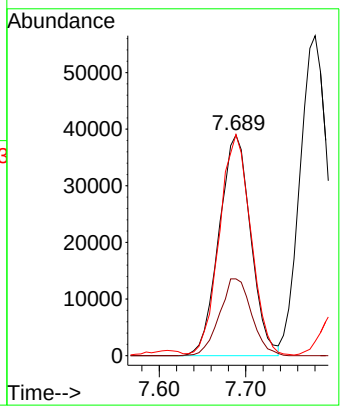




#31
Cyclohexane
Concen: 50.332 ug/l
RT: 7.689 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 56 Resp: 9927

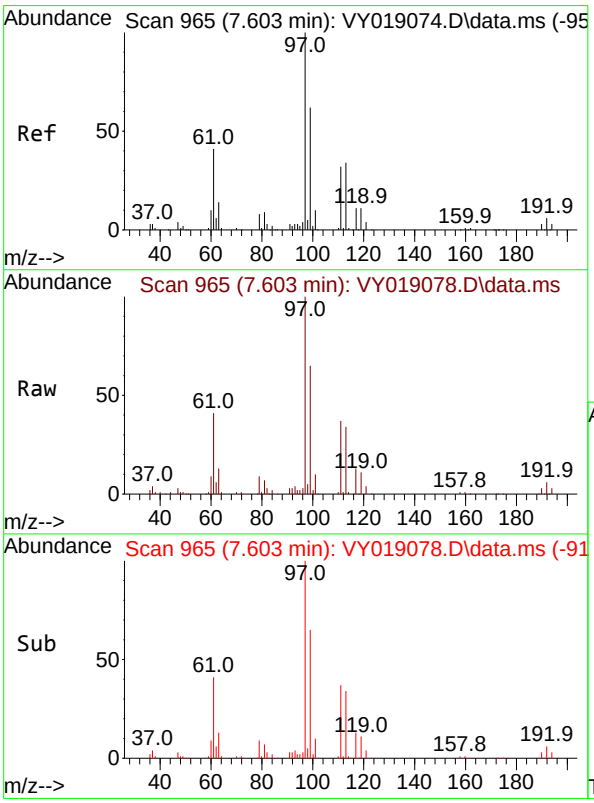
Ion	Ratio	Lower	Upper
56	100		
69	34.8	28.7	43.1
84	98.5	77.7	116.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

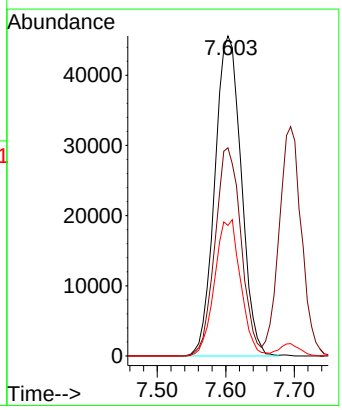
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

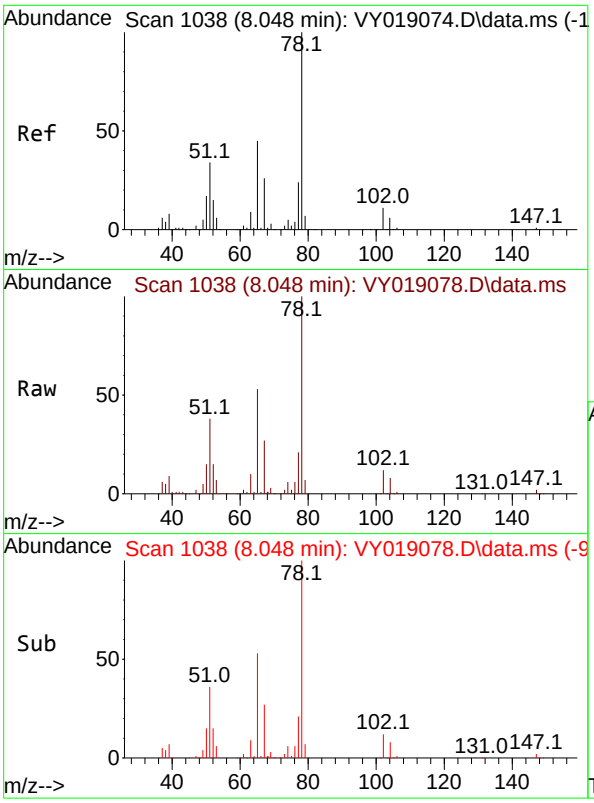


#32
1,1,1-Trichloroethane
Concen: 48.817 ug/l
RT: 7.603 min Scan# 965
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 97 Resp: 122157

Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.3	75.5
61	42.0	32.6	48.8

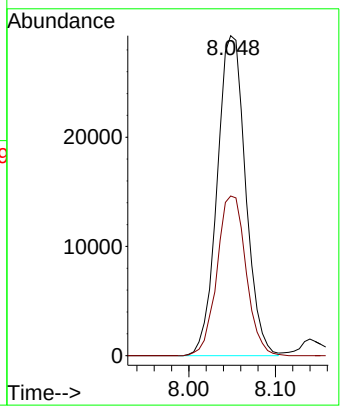




#33
1,2-Dichloroethane-d4
Concen: 48.368 ug/l
RT: 8.048 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 65 Resp: 6672

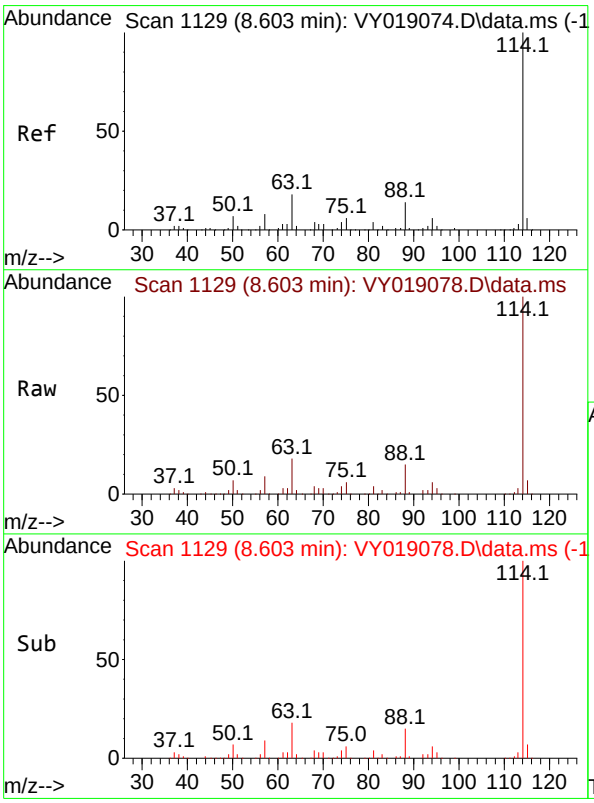
Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	109.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

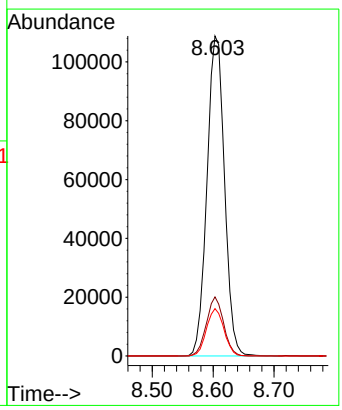
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

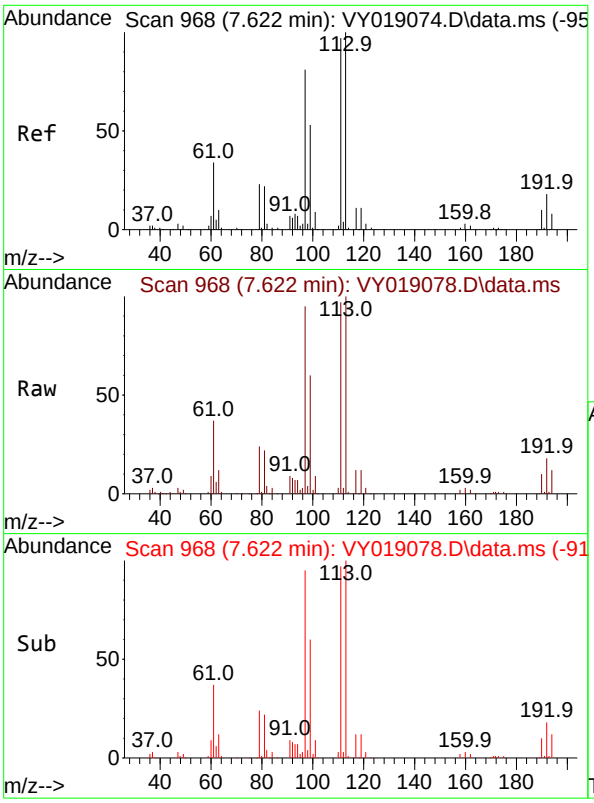


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.603 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:114 Resp: 217486

Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	35.0
88	14.8	0.0	27.2

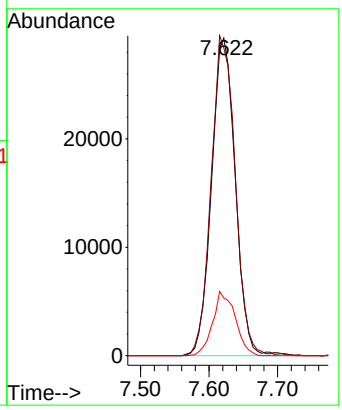




#35
Dibromofluoromethane
Concen: 49.438 ug/l
RT: 7.622 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:113 Resp: 7030

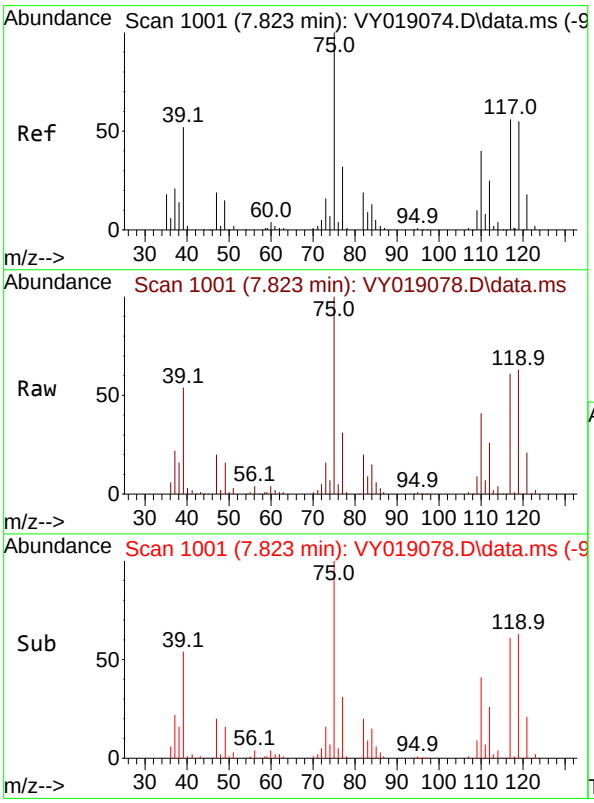
Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.2	123.4
192	19.3	15.9	23.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

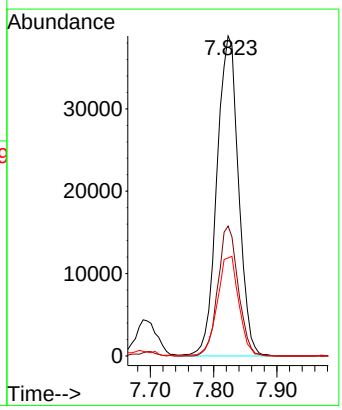
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

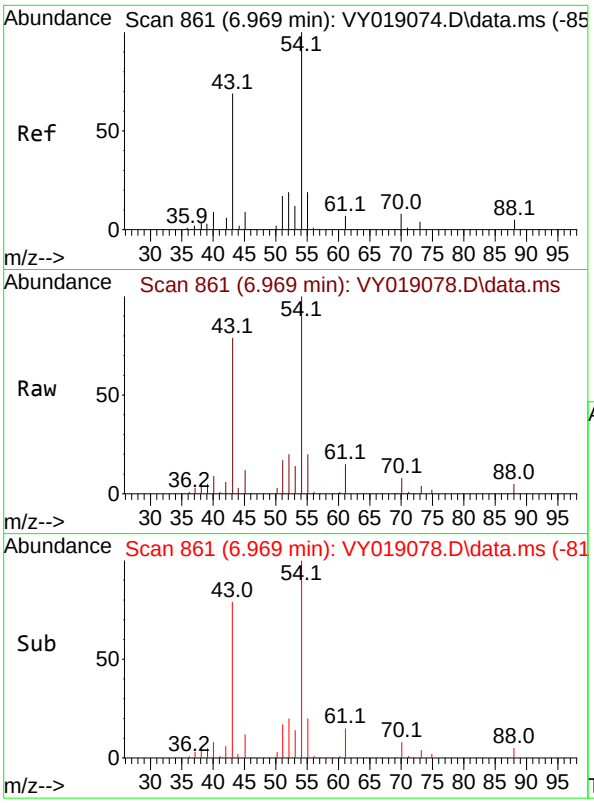


#36
1,1-Dichloropropene
Concen: 47.172 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 75 Resp: 92114

Ion	Ratio	Lower	Upper
75	100		
110	38.2	19.0	57.0
77	31.1	25.3	37.9

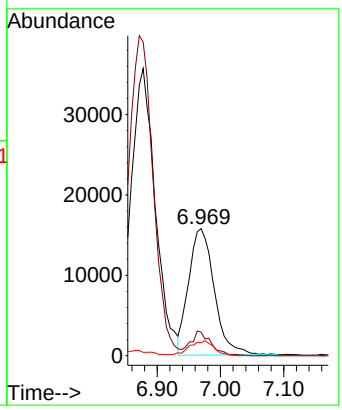




#37
Ethyl Acetate
Concen: 51.311 ug/l
RT: 6.969 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 43 Resp: 4439

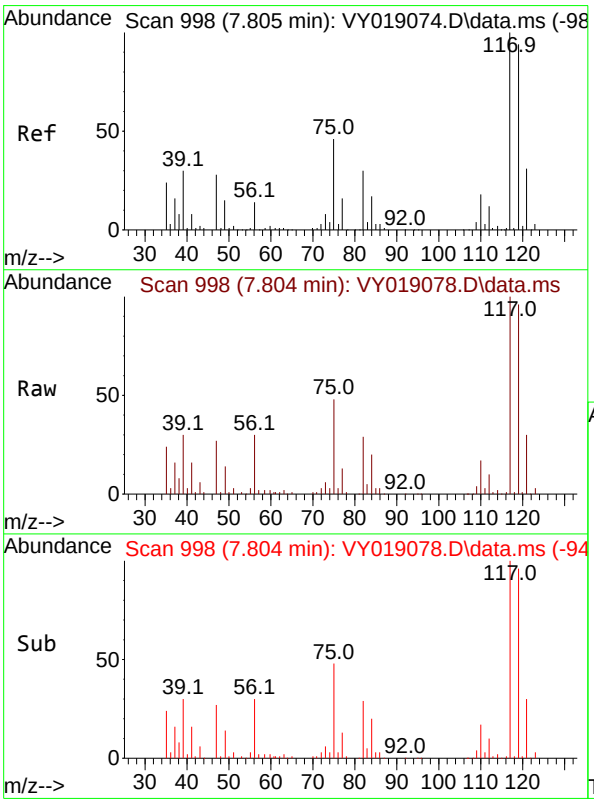
Ion	Ratio	Lower	Upper
43	100		
61	15.3	12.6	19.0
70	11.4	7.8	11.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

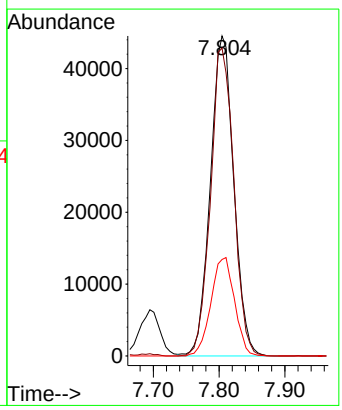
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

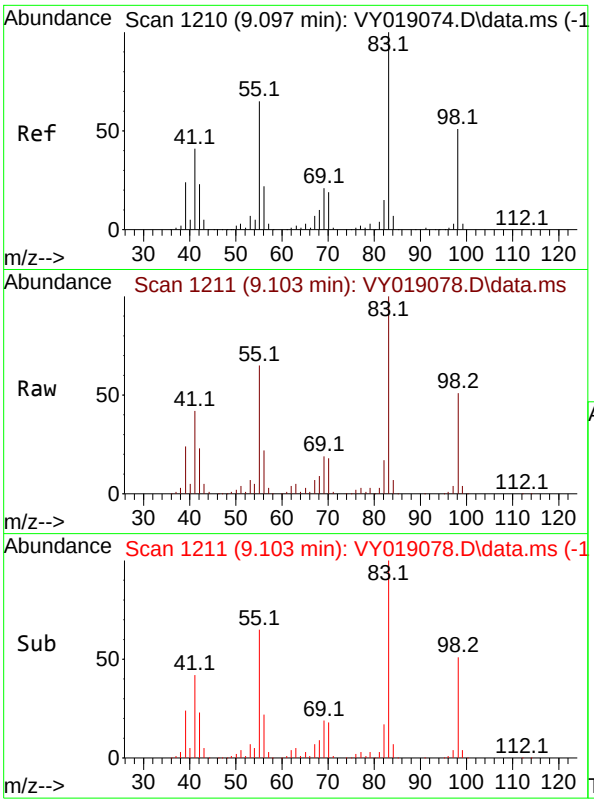


#38
Carbon Tetrachloride
Concen: 48.784 ug/l
RT: 7.804 min Scan# 998
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:117 Resp: 110399

Ion	Ratio	Lower	Upper
117	100		
119	96.2	75.8	113.6
121	30.2	24.0	36.0

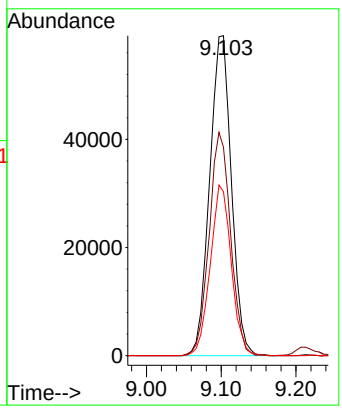




#39
Methylcyclohexane
Concen: 47.693 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 83 Resp: 11951

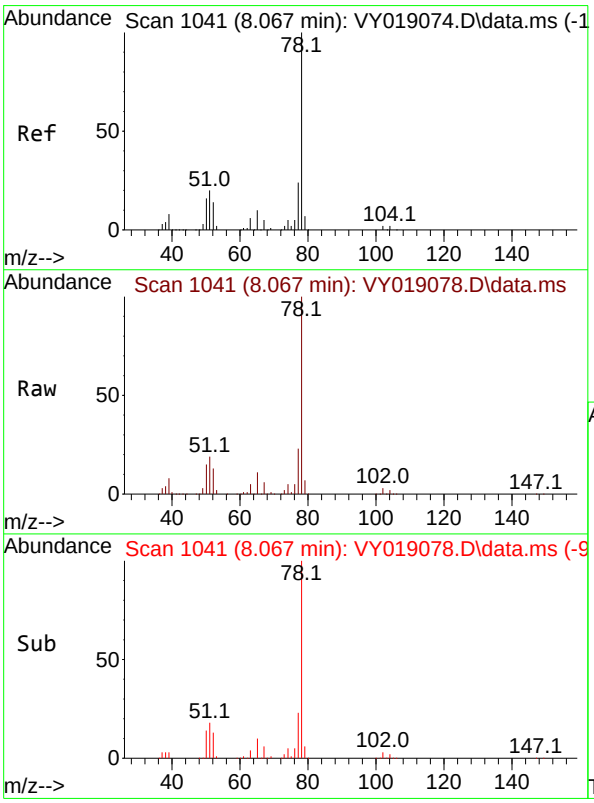
Ion	Ratio	Lower	Upper
83	100		
55	65.1	51.5	77.3
98	51.2	40.5	60.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

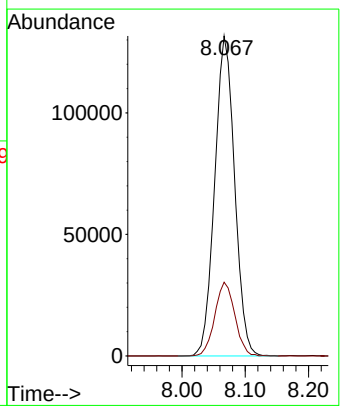
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

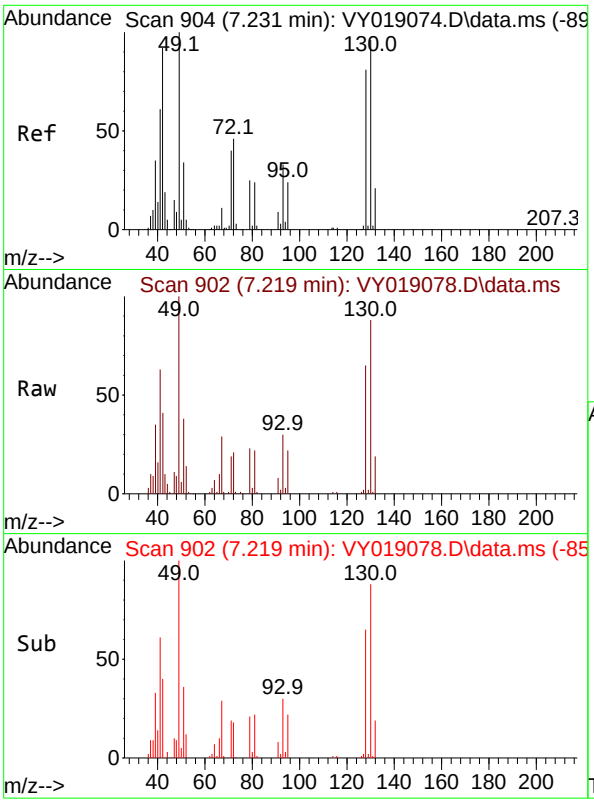


#40
Benzene
Concen: 47.950 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 78 Resp: 287166

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.5	29.3

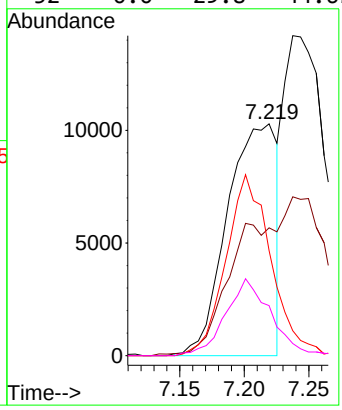




#41
Methacrylonitrile
Concen: 58.415 ug/l m
RT: 7.219 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 41 Resp: 2758

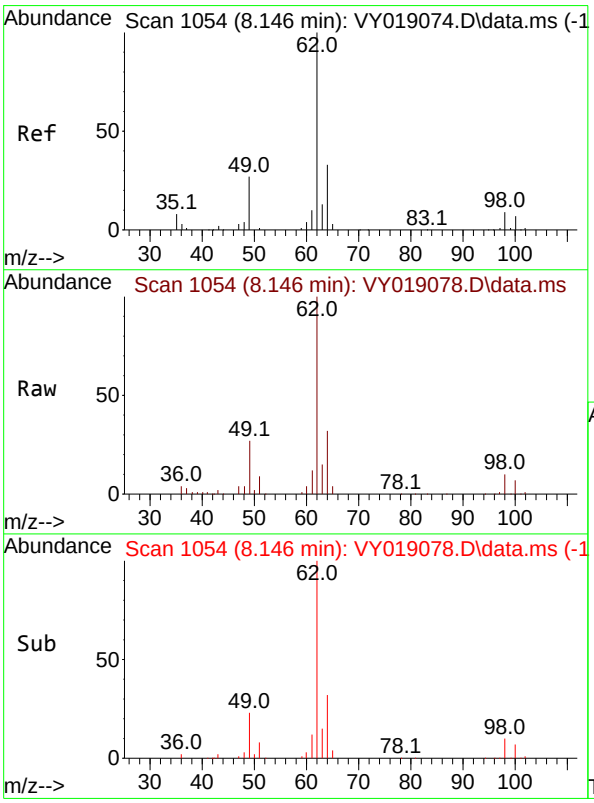
Ion	Ratio	Lower	Upper
41	100		
39	62.4	48.0	72.0
67	0.0	75.1	112.7#
52	0.0	29.8	44.6#



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

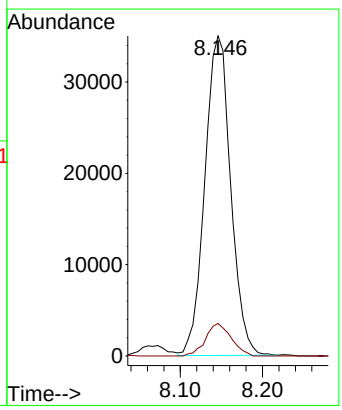
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

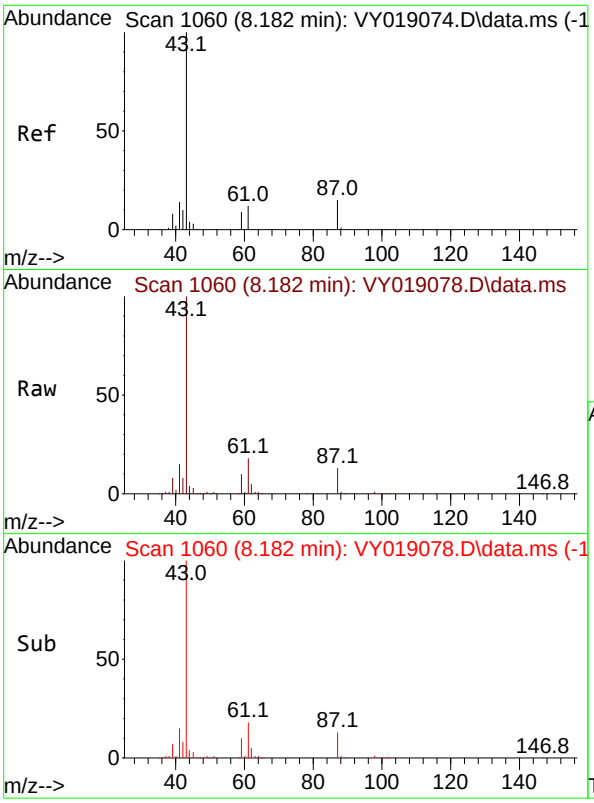


#42
1,2-Dichloroethane
Concen: 47.312 ug/l
RT: 8.146 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 62 Resp: 76516

Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	22.0





#43
Isopropyl Acetate
Concen: 48.755 ug/l
RT: 8.182 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

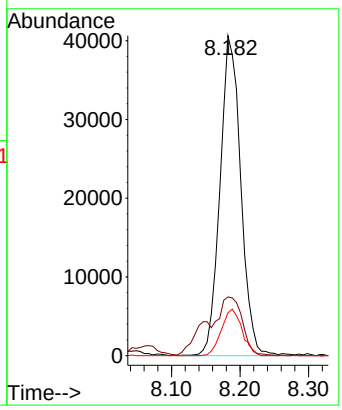
Tgt Ion: 43 Resp: 8530

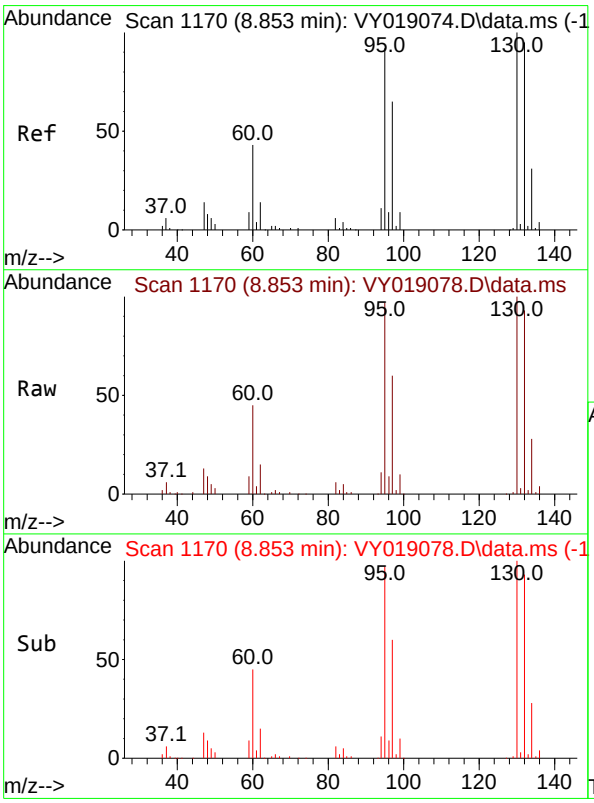
Ion	Ratio	Lower	Upper
43	100		
61	21.1	27.9	41.9#
87	14.5	13.1	19.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

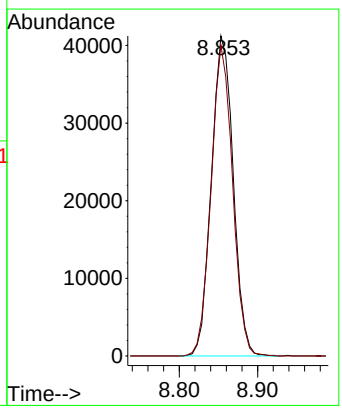


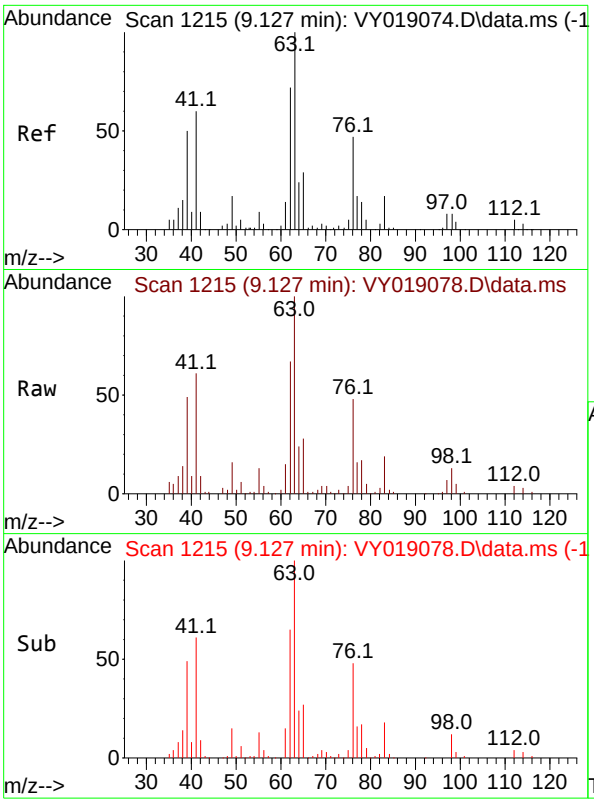


#44
Trichloroethene
Concen: 47.856 ug/l
RT: 8.853 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:130 Resp: 79972

Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	188.0

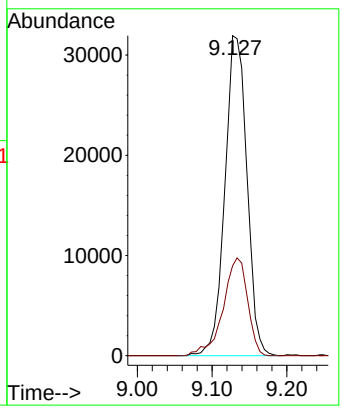




#45
1,2-Dichloropropane
Concen: 49.136 ug/l
RT: 9.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 63 Resp: 6556

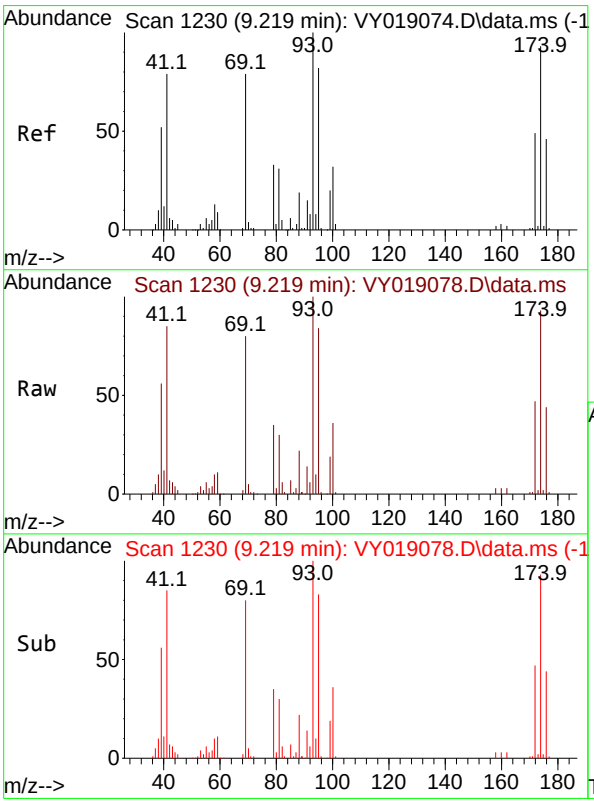
Ion	Ratio	Lower	Upper
63	100		
65	28.1	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

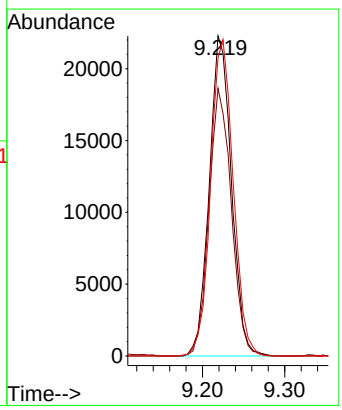
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

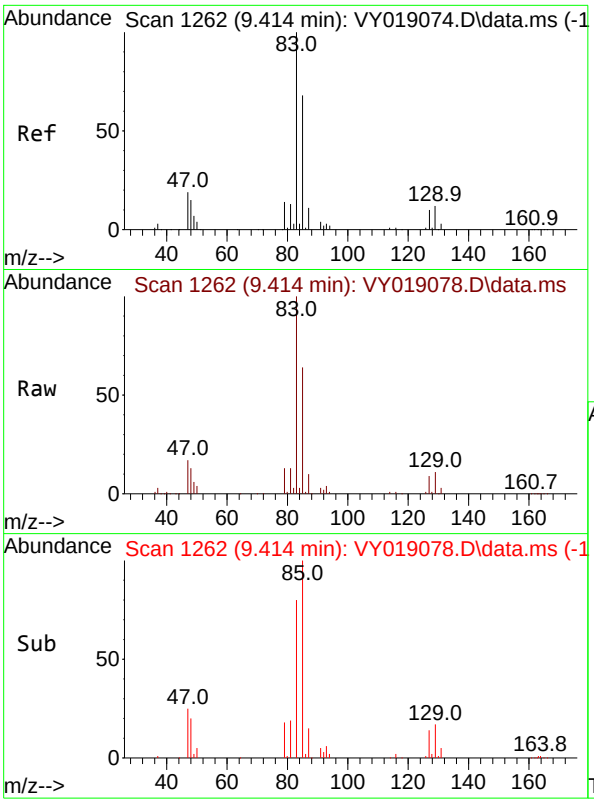


#46
Dibromomethane
Concen: 48.307 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 93 Resp: 41807

Ion	Ratio	Lower	Upper
93	100		
95	84.5	66.2	99.4
174	100.8	80.9	121.3

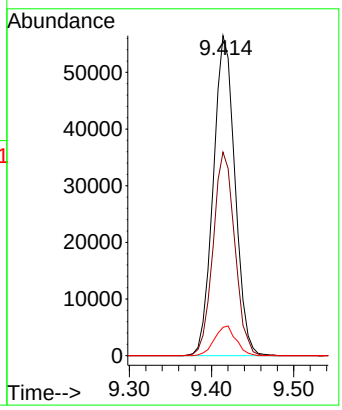




#47
Bromodichloromethane
Concen: 48.824 ug/l
RT: 9.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 83 Resp: 10366

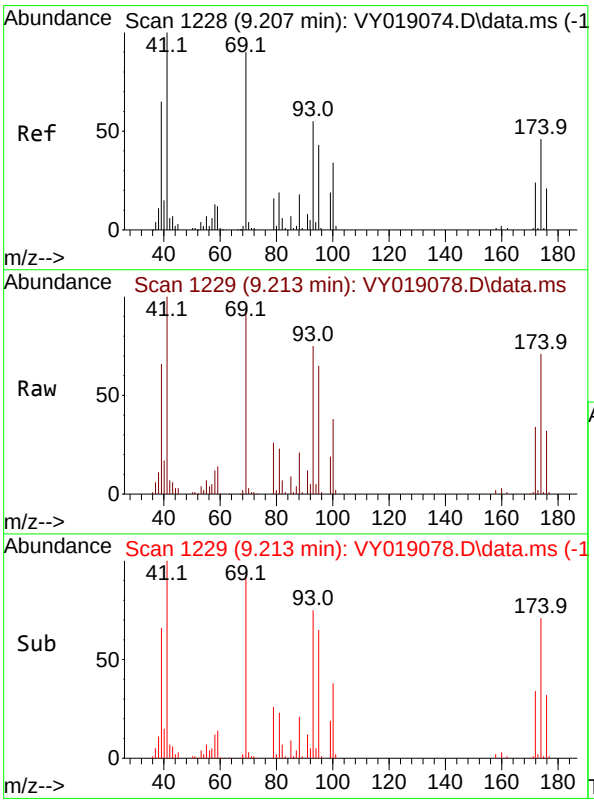
Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.1	75.1
127	8.9	7.4	11.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

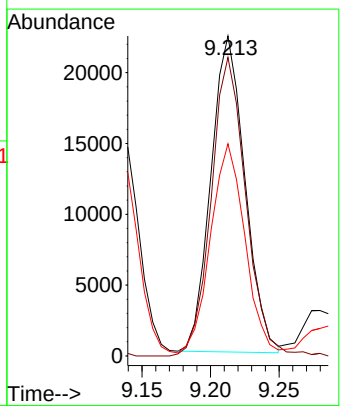
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

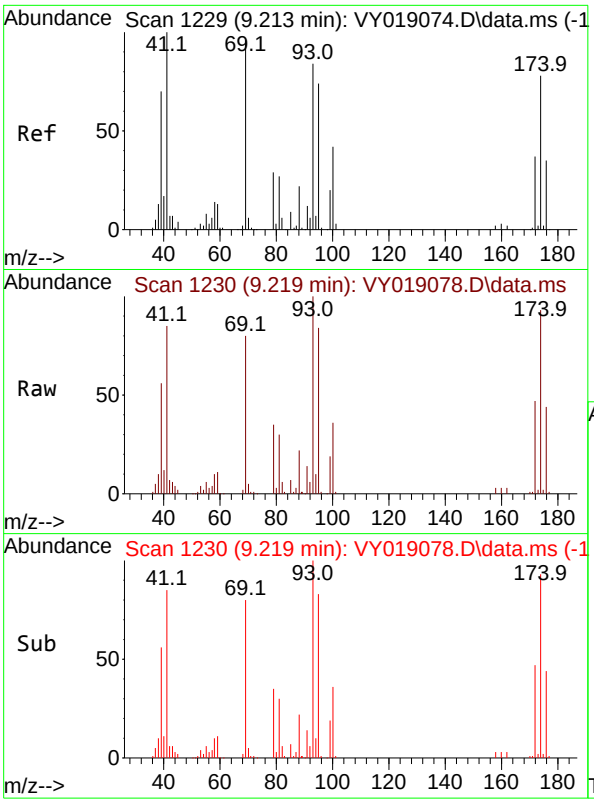


#48
Methyl methacrylate
Concen: 49.412 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 41 Resp: 38530

Ion	Ratio	Lower	Upper
41	100		
69	96.5	84.1	126.1
39	66.7	43.6	65.4#

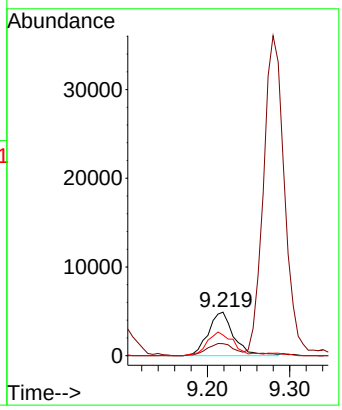




#49
1,4-Dioxane
Concen: 1009.560 ug/l
RT: 9.219 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 88 Resp: 1058

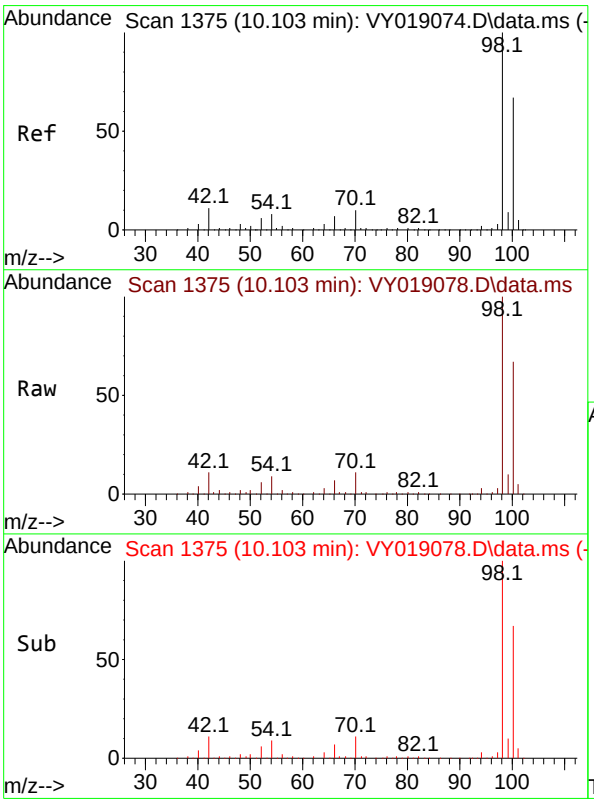
Ion	Ratio	Lower	Upper
88	100		
43	30.0	0.0	0.0
58	56.6	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

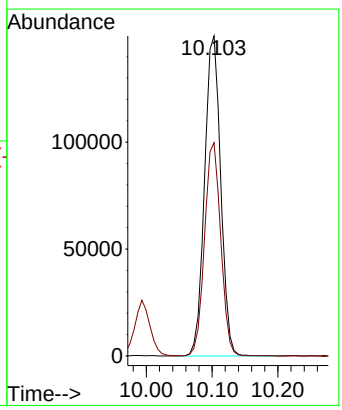
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

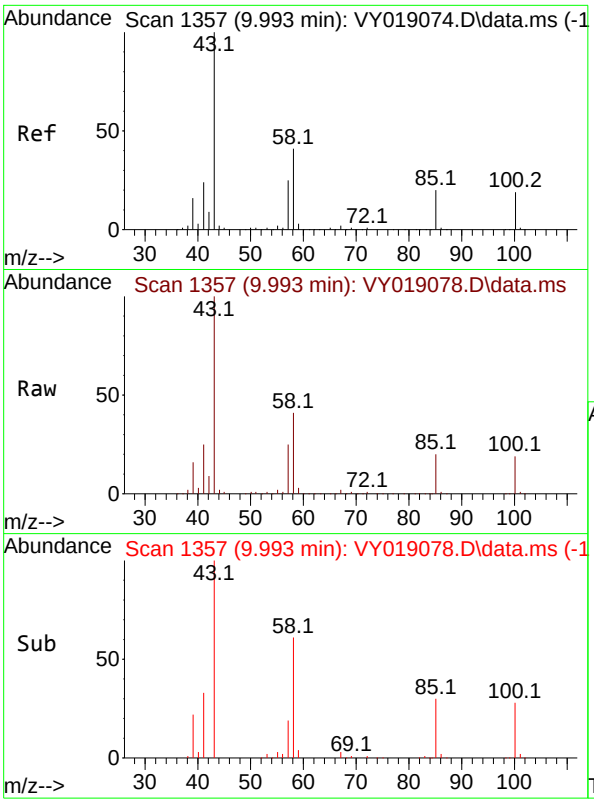


#50
Toluene-d8
Concen: 49.940 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 98 Resp: 255566

Ion	Ratio	Lower	Upper
98	100		
100	66.7	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 252.864 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

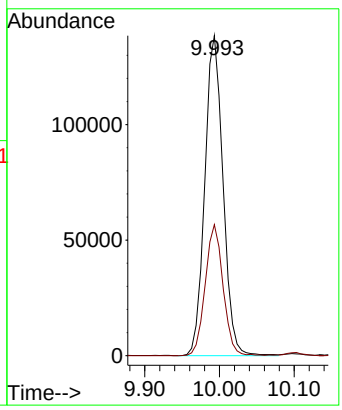
Tgt Ion: 43 Resp: 23482

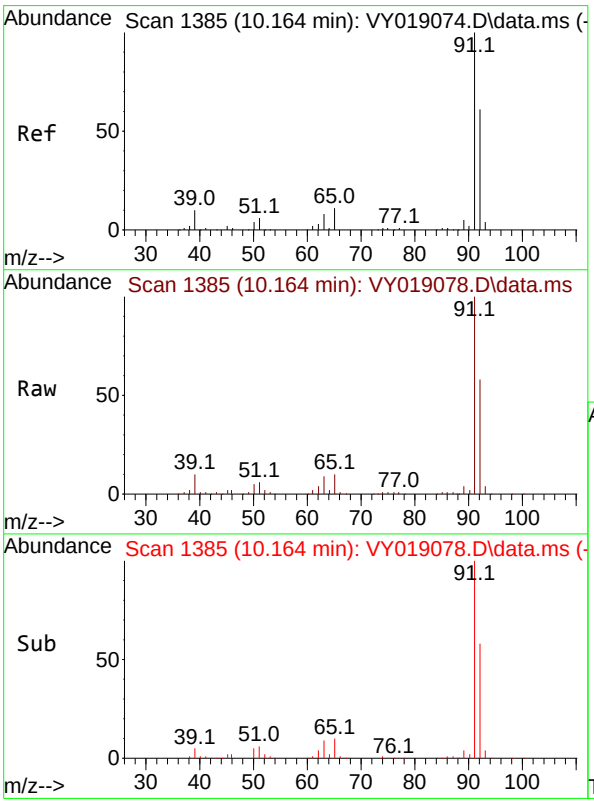
Ion	Ratio	Lower	Upper
43	100		
58	40.1	35.7	53.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

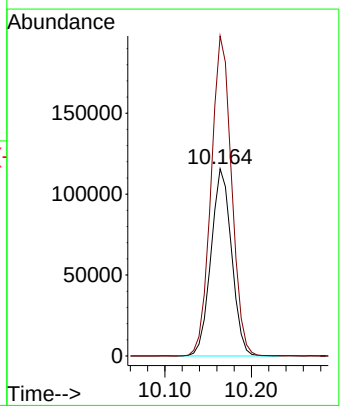


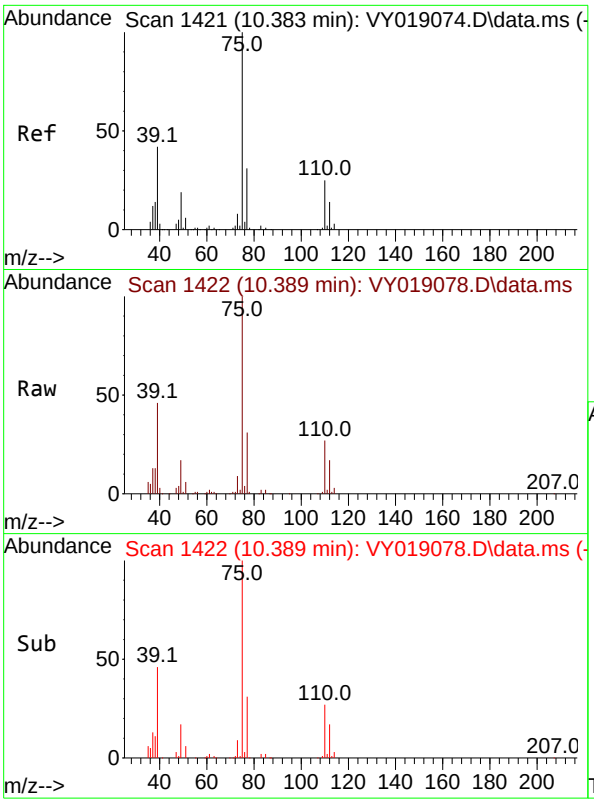


#52
Toluene
Concen: 48.489 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 92 Resp: 190621

Ion	Ratio	Lower	Upper
92	100		
91	170.9	139.0	208.6

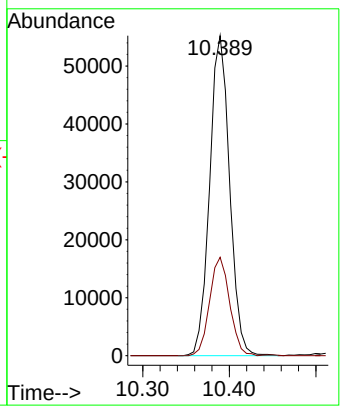




#53
t-1,3-Dichloropropene
Concen: 50.207 ug/l
RT: 10.389 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 75 Resp: 8843

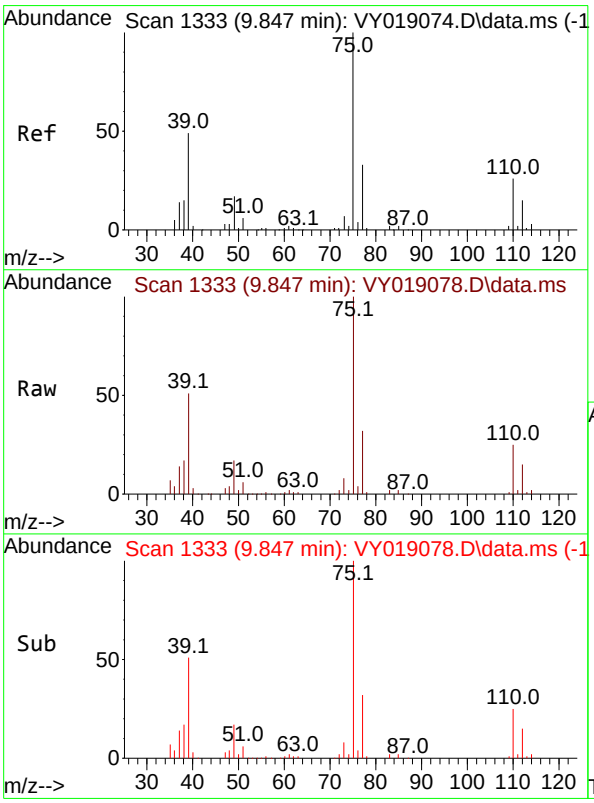
Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.1	36.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

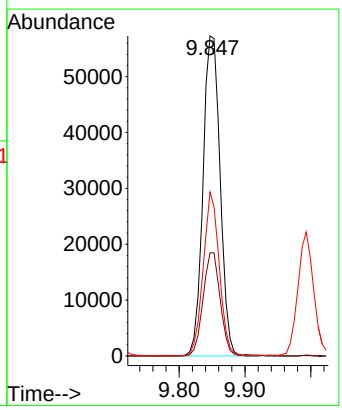
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

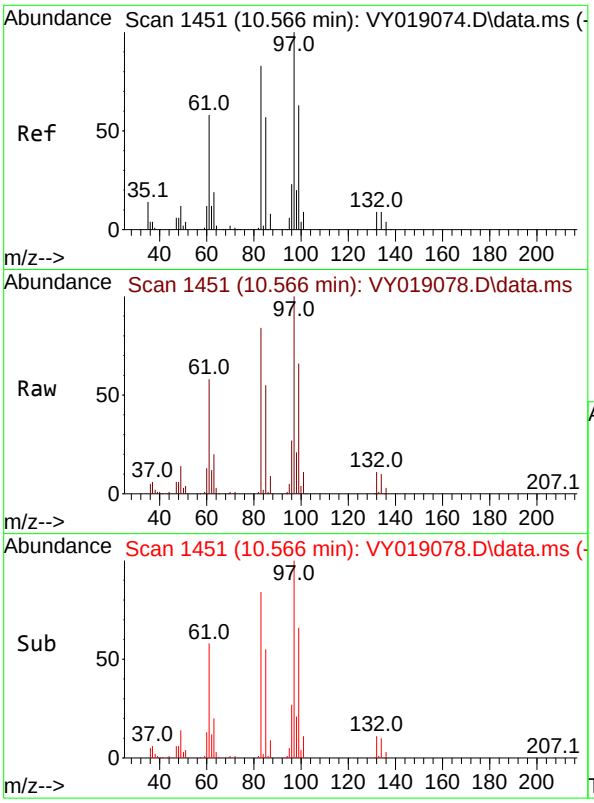


#54
cis-1,3-Dichloropropene
Concen: 49.024 ug/l
RT: 9.847 min Scan# 1333
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 75 Resp: 103846

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.4	38.0
39	51.1	29.8	44.6#

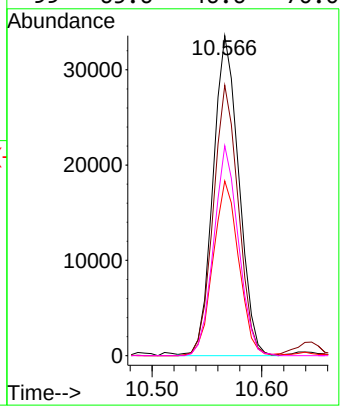




#55
1,1,2-Trichloroethane
Concen: 49.272 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 97 Resp: 5489

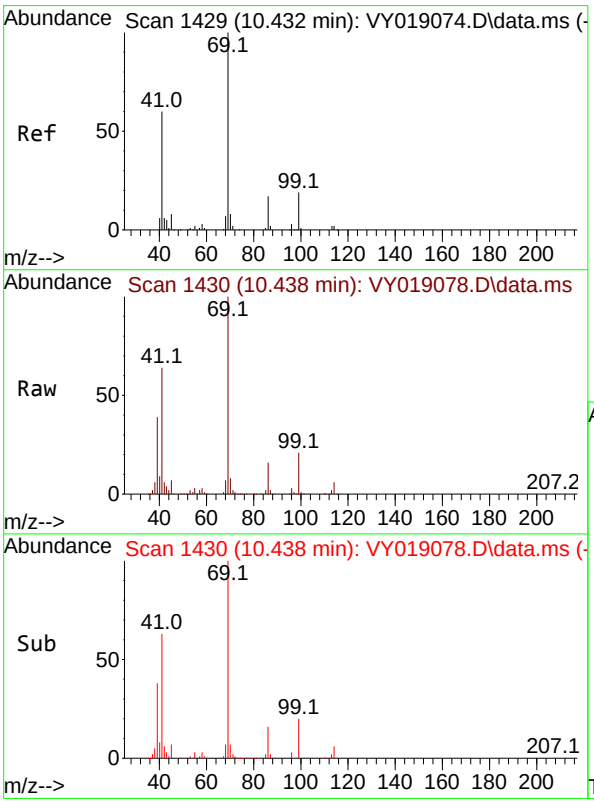
Ion	Ratio	Lower	Upper
97	100		
83	84.5	67.5	101.3
85	54.6	42.9	64.3
99	65.6	46.6	70.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

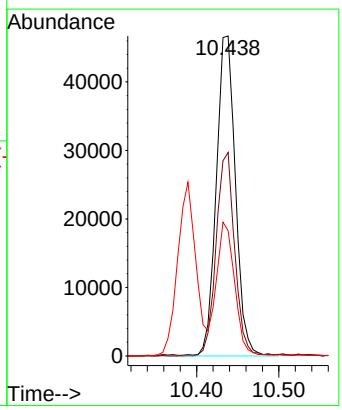
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

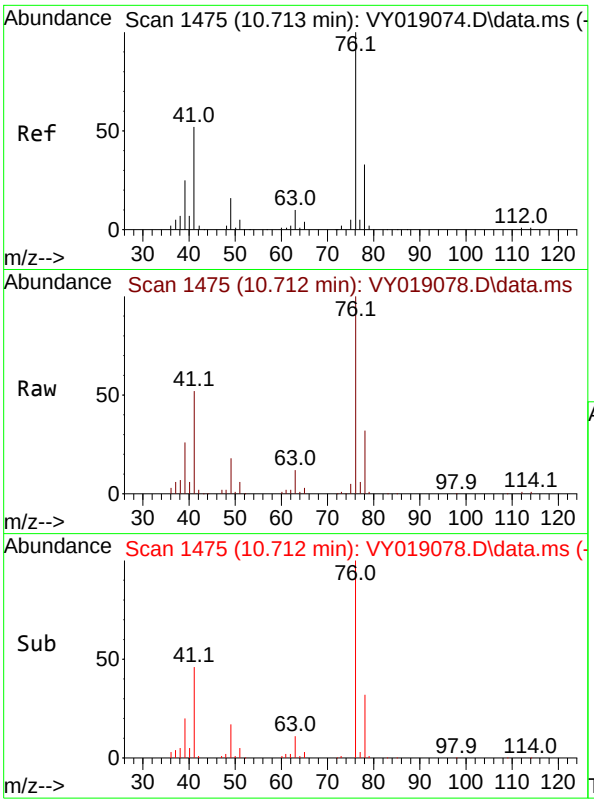


#56
Ethyl methacrylate
Concen: 51.869 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 69 Resp: 75640

Ion	Ratio	Lower	Upper
69	100		
41	60.8	42.3	63.5
39	39.1	22.9	34.3#

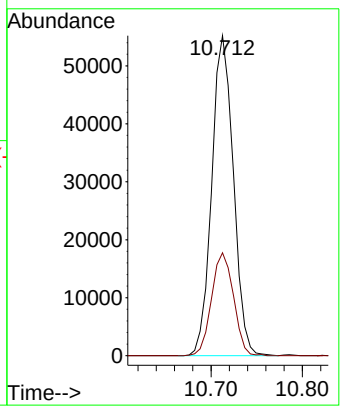




#57
1,3-Dichloropropane
Concen: 49.966 ug/l
RT: 10.712 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 76 Resp: 9074

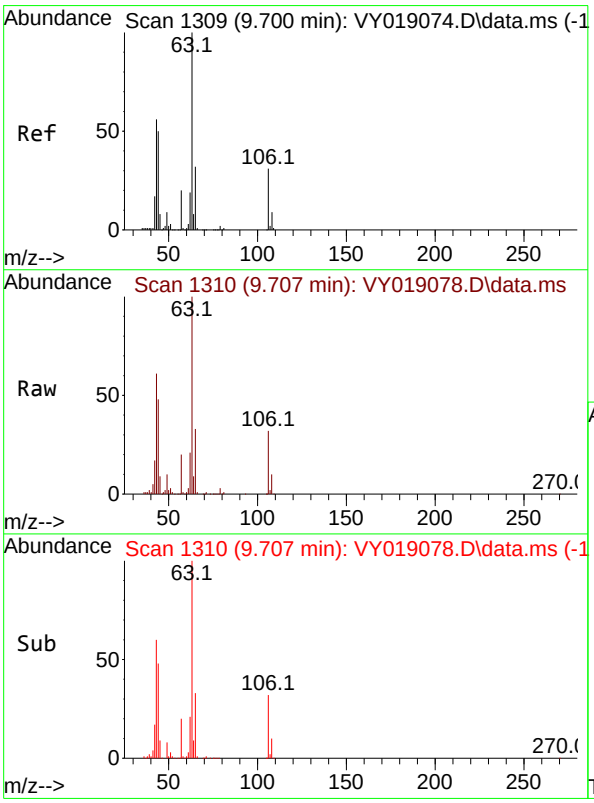
Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.2	39.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

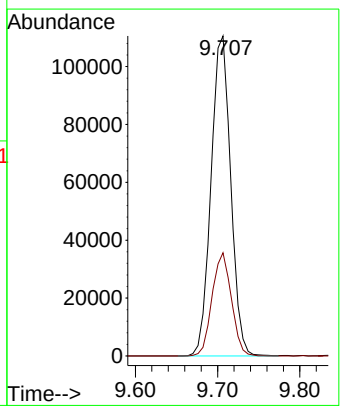
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

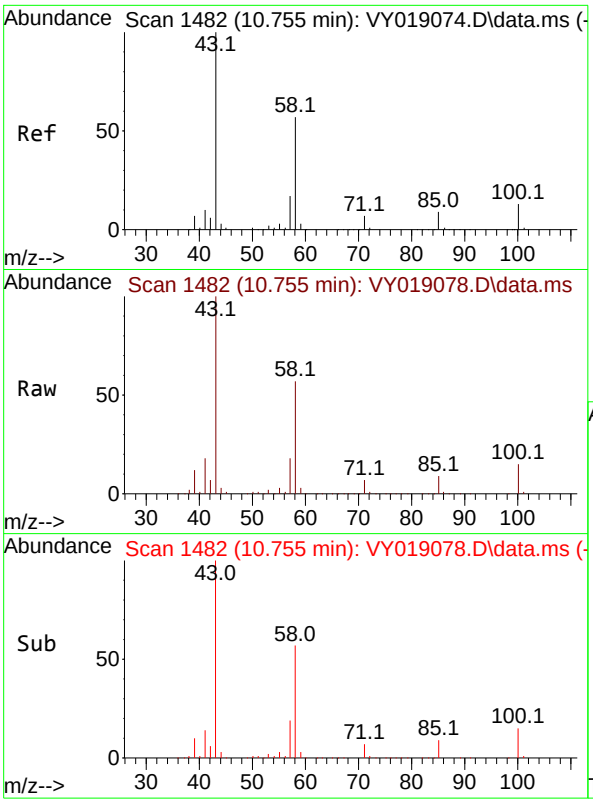


#58
2-Chloroethyl Vinyl ether
Concen: 265.740 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 63 Resp: 183842

Ion	Ratio	Lower	Upper
63	100		
106	31.6	23.7	35.5





#59
2-Hexanone
Concen: 246.958 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

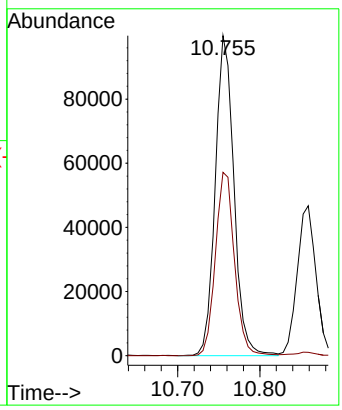
Tgt Ion: 43 Resp: 15756

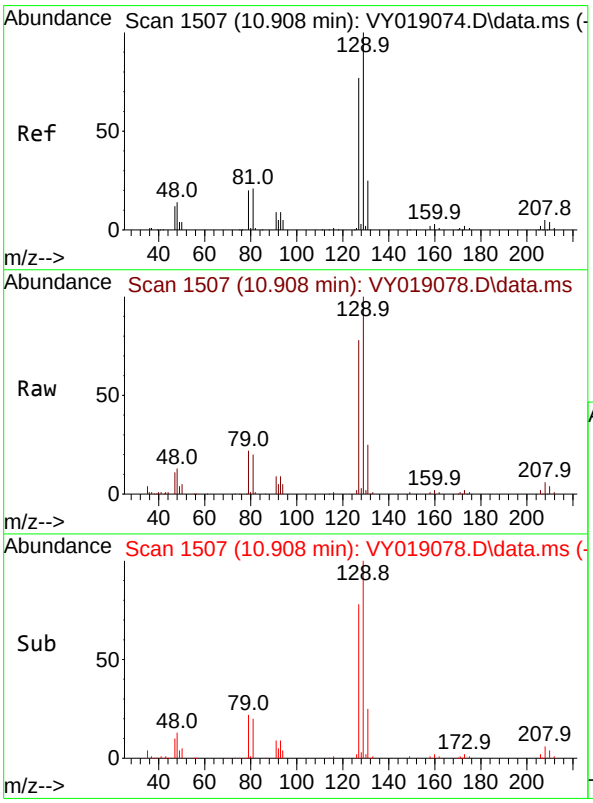
Ion	Ratio	Lower	Upper
43	100		
58	58.6	31.4	94.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

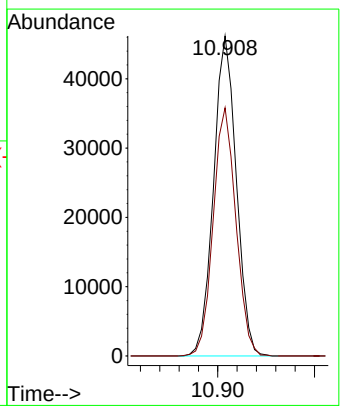


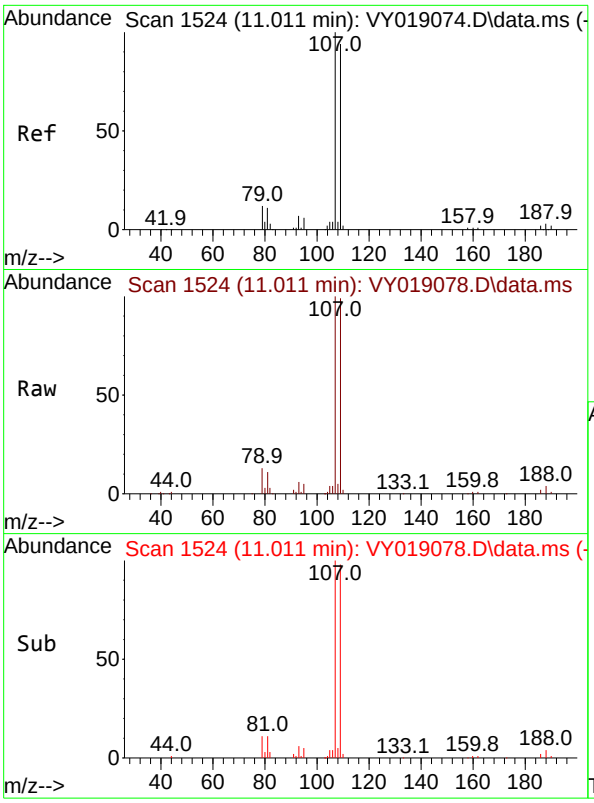


#60
Dibromochloromethane
Concen: 49.713 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:129 Resp: 75438

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.0	117.0





#61
1,2-Dibromoethane
Concen: 49.710 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

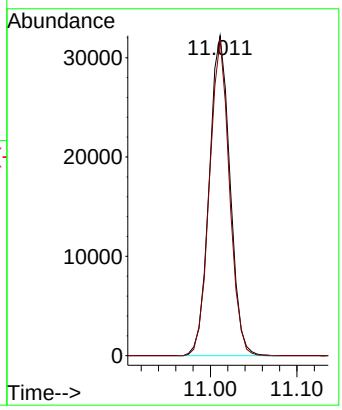
Tgt Ion:107 Resp: 5353

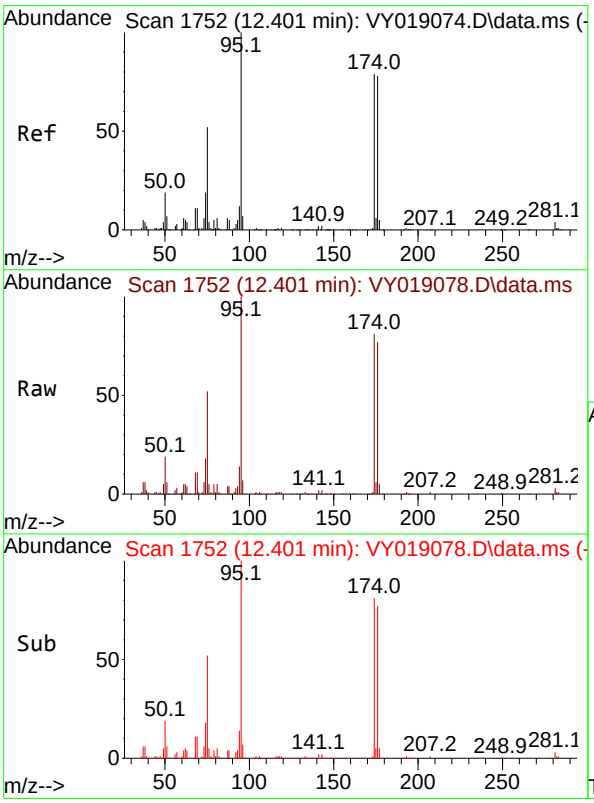
Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.9	113.9

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

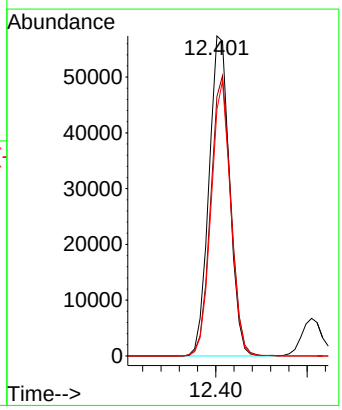


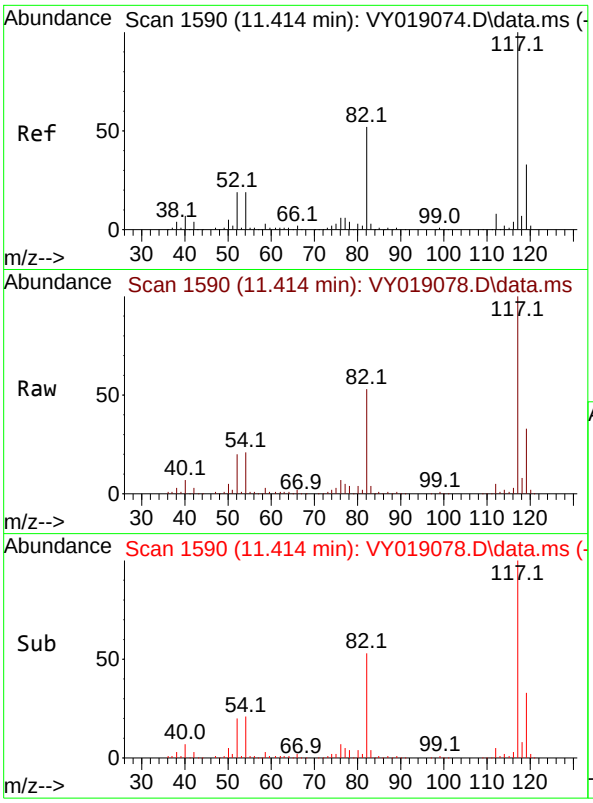


#62
4-Bromofluorobenzene
Concen: 51.204 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 95 Resp: 89327

Ion	Ratio	Lower	Upper
95	100		
174	86.4	0.0	175.6
176	82.1	0.0	171.4

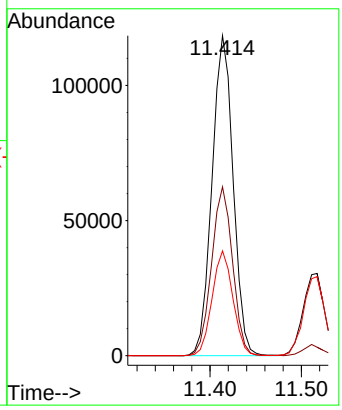




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:117 Resp: 19003

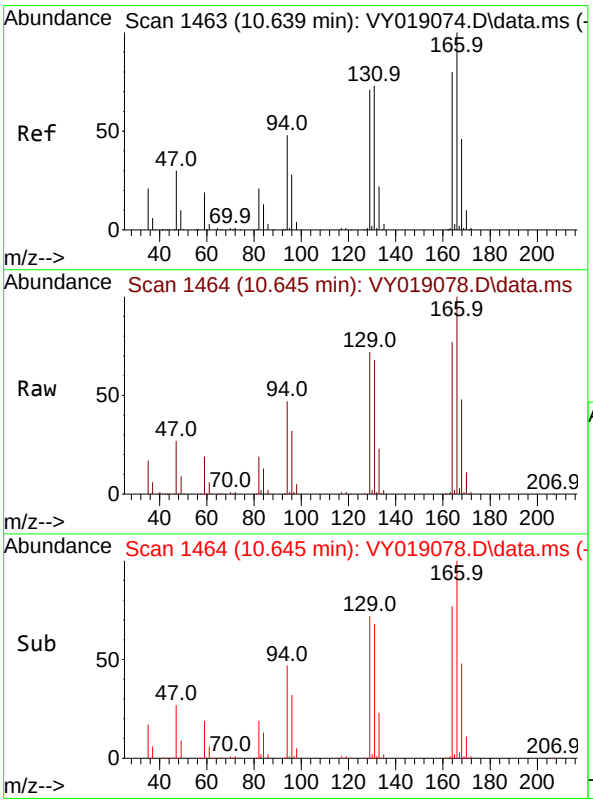
Ion	Ratio	Lower	Upper
117	100		
82	52.8	42.4	63.6
119	32.8	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

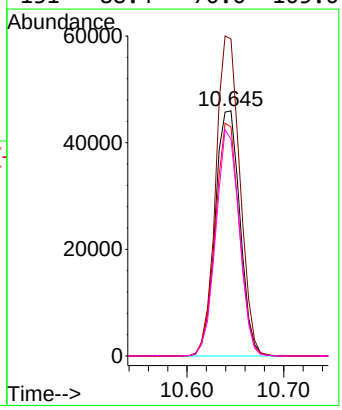
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

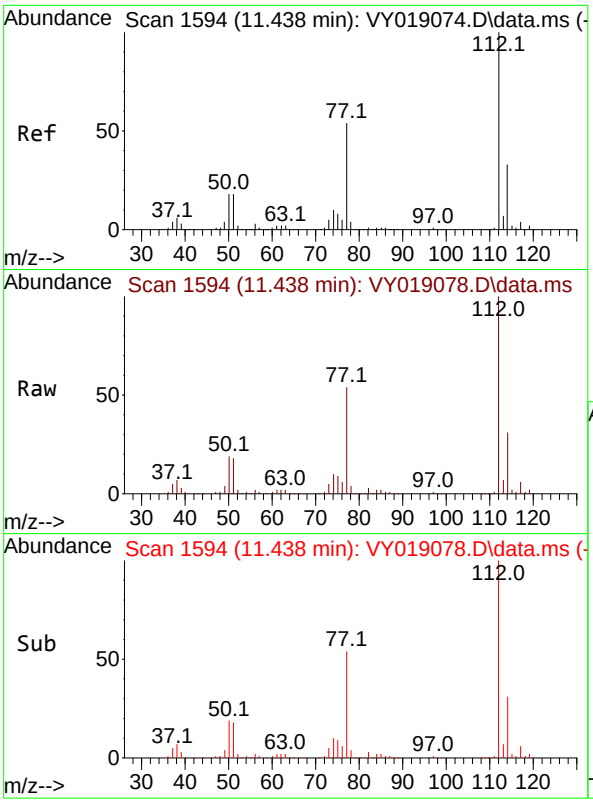


#64
Tetrachloroethene
Concen: 49.025 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:164 Resp: 81433

Ion	Ratio	Lower	Upper
164	100		
166	129.3	102.6	154.0
129	93.5	72.0	108.0
131	88.4	70.0	105.0

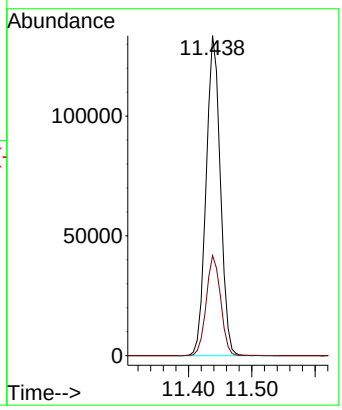




#65
Chlorobenzene
Concen: 47.770 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:112 Resp: 20903

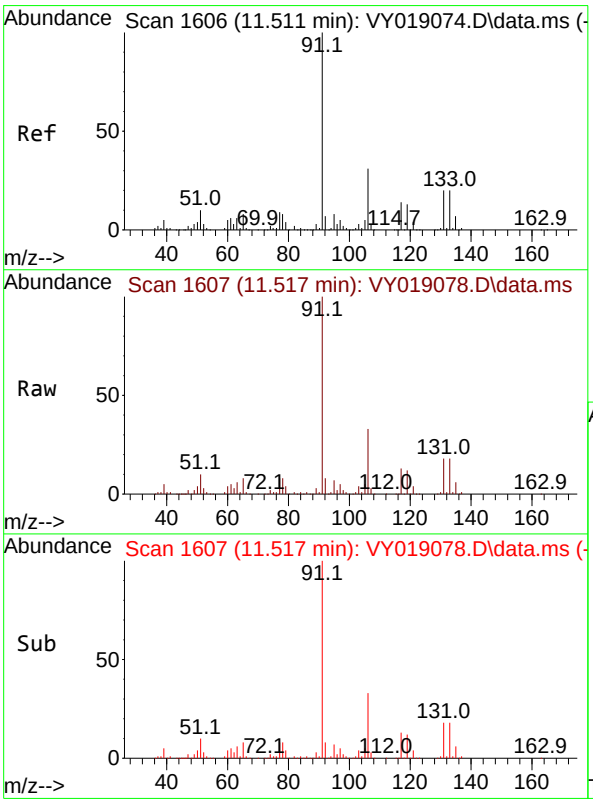
Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

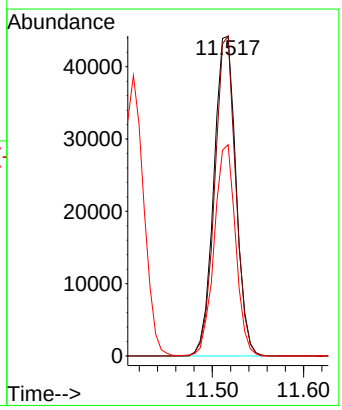
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

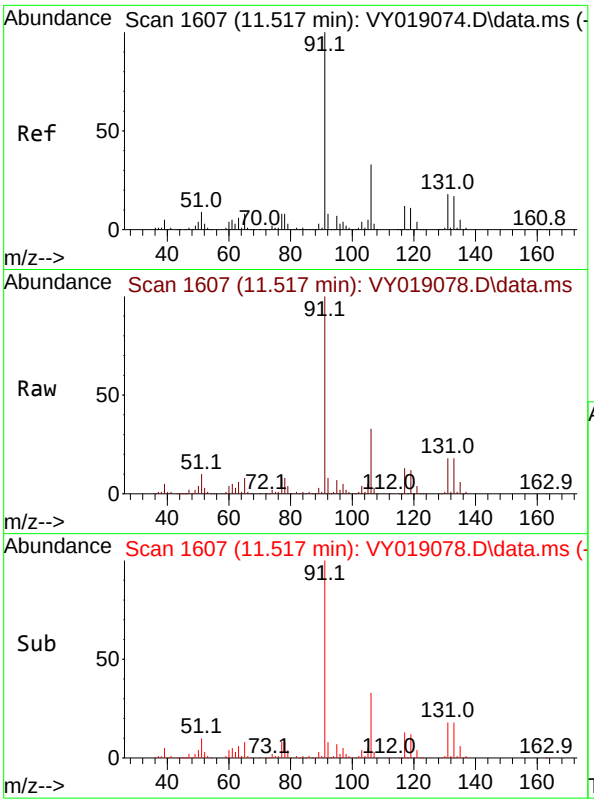


#66
1,1,1,2-Tetrachloroethane
Concen: 48.274 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:131 Resp: 74284

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.8	143.3
119	64.0	34.1	102.2





#67
Ethyl Benzene
Concen: 48.286 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

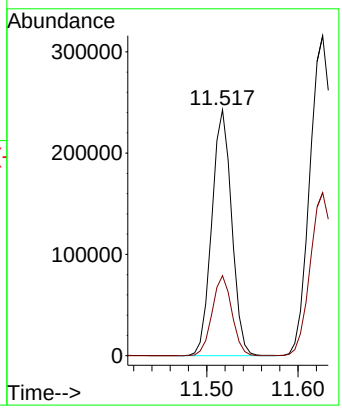
Tgt Ion: 91 Resp: 36672

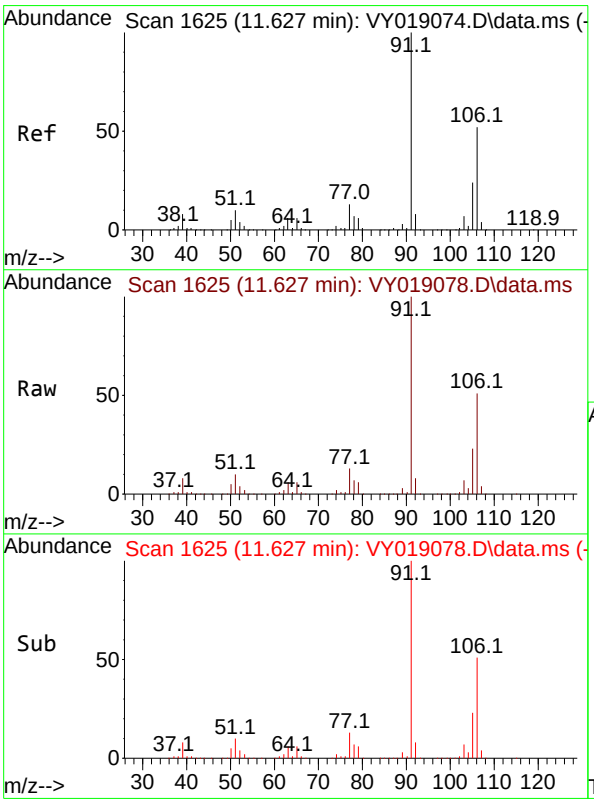
Ion	Ratio	Lower	Upper
91	100		
106	32.5	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

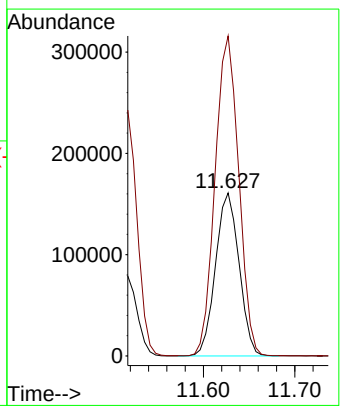


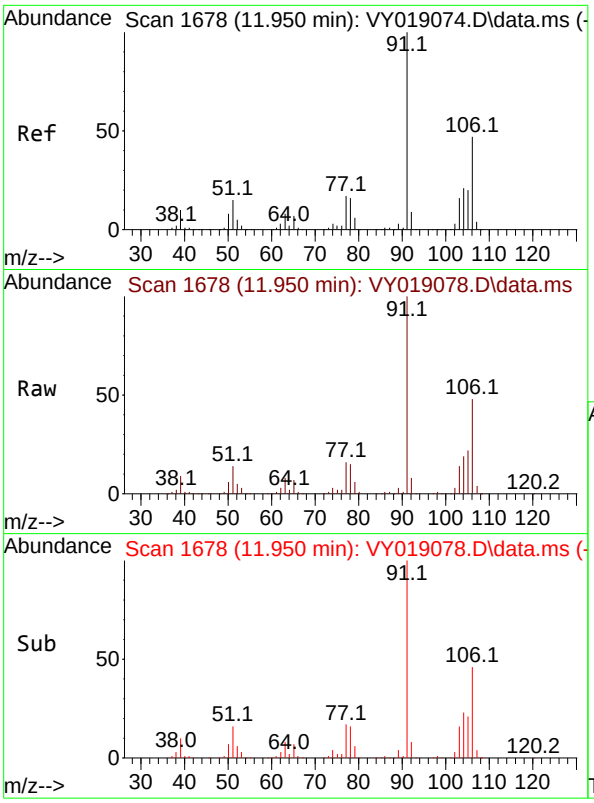


#68
m/p-Xylenes
Concen: 95.737 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:106 Resp: 288509

Ion	Ratio	Lower	Upper
106	100		
91	197.0	156.0	234.0





#69
o-Xylene
Concen: 49.610 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

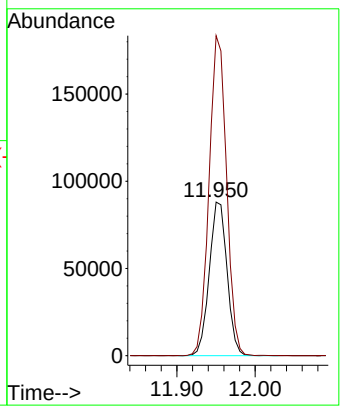
Tgt Ion:106 Resp: 13844

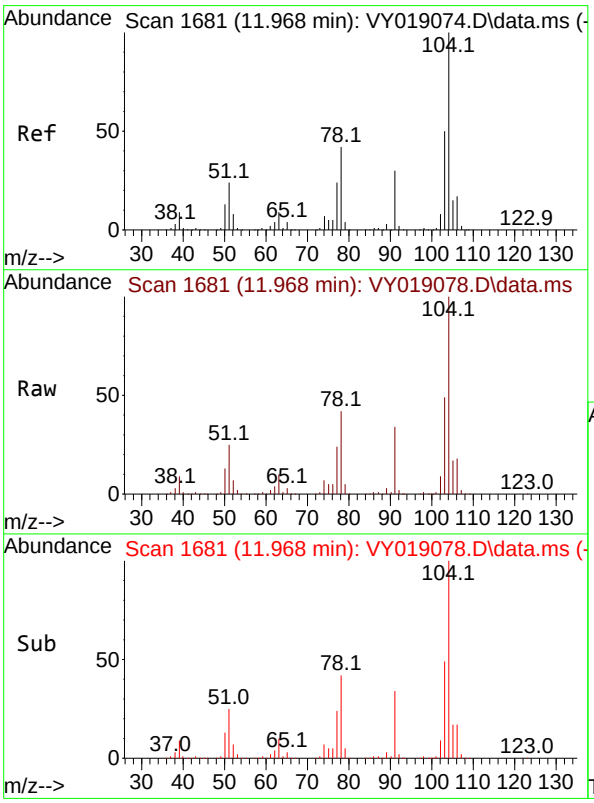
Ion	Ratio	Lower	Upper
106	100		
91	205.2	103.6	310.8

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

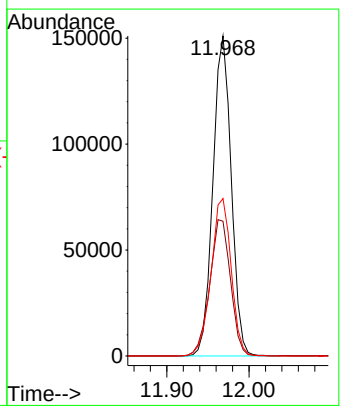


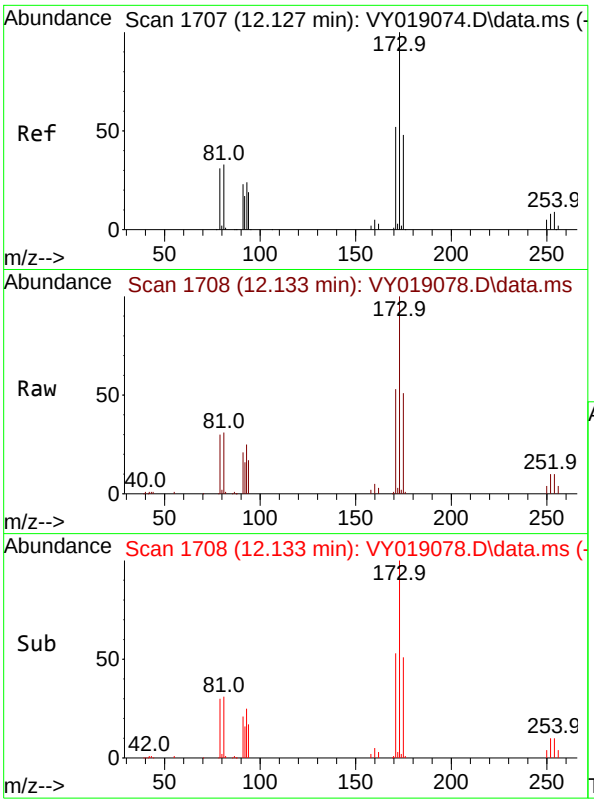


#70
Styrene
Concen: 49.120 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:104 Resp: 233760

Ion	Ratio	Lower	Upper
104	100		
78	48.3	37.0	55.4
103	54.1	44.2	66.2

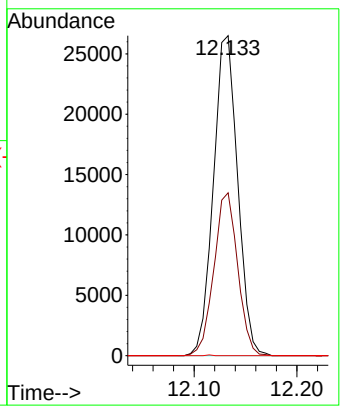




#71
Bromoform
Concen: 49.301 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:173 Resp: 4336

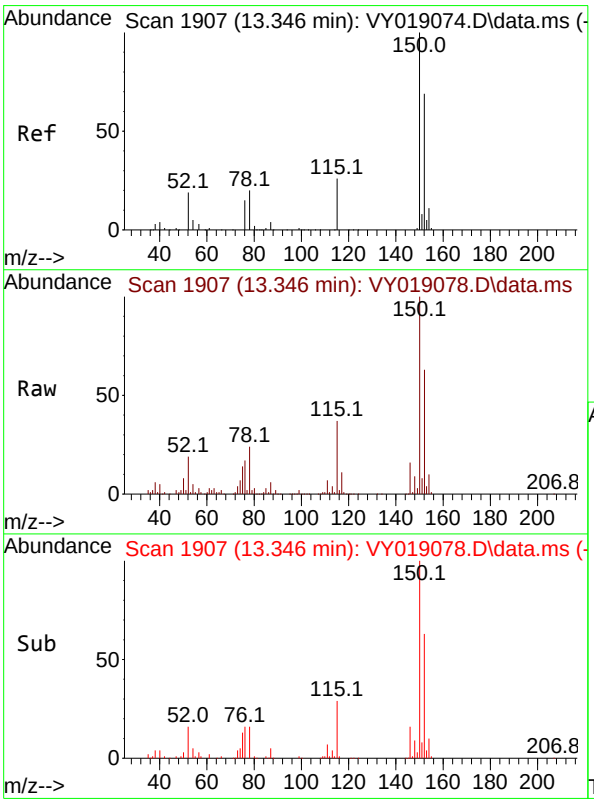
Ion	Ratio	Lower	Upper
173	100		
175	49.9	25.1	75.3
254	0.1	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

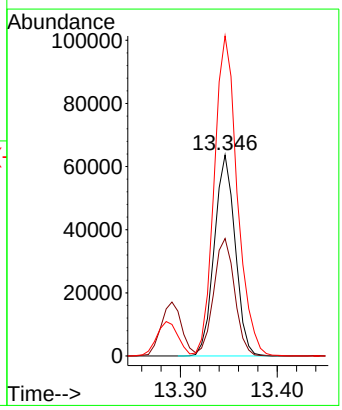
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

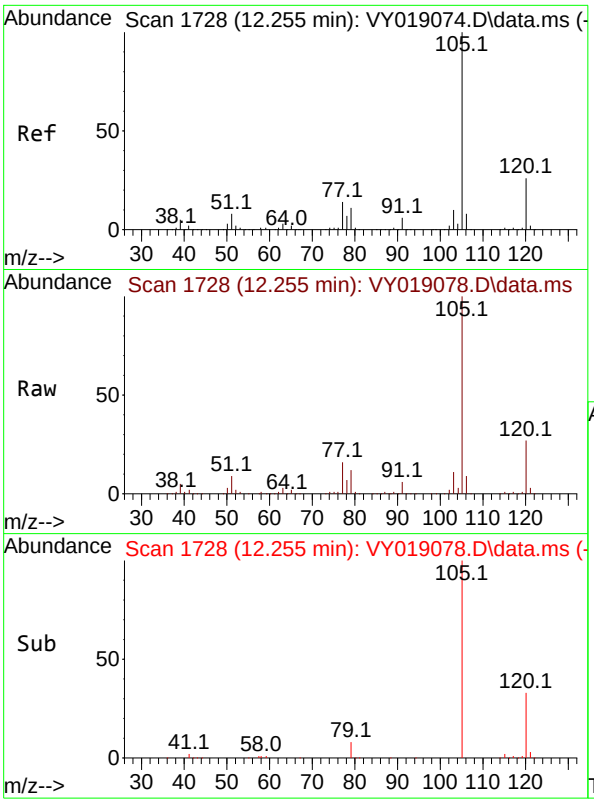


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:152 Resp: 95069

Ion	Ratio	Lower	Upper
152	100		
115	58.9	28.2	84.7
150	176.9	0.0	345.6





#73
Isopropylbenzene
Concen: 49.343 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

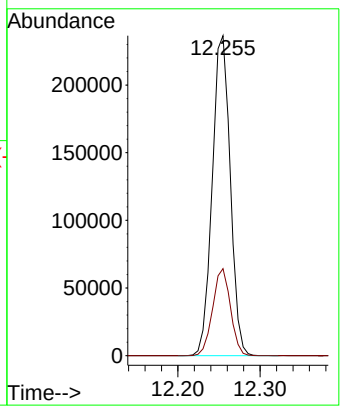
Tgt Ion:105 Resp: 35953

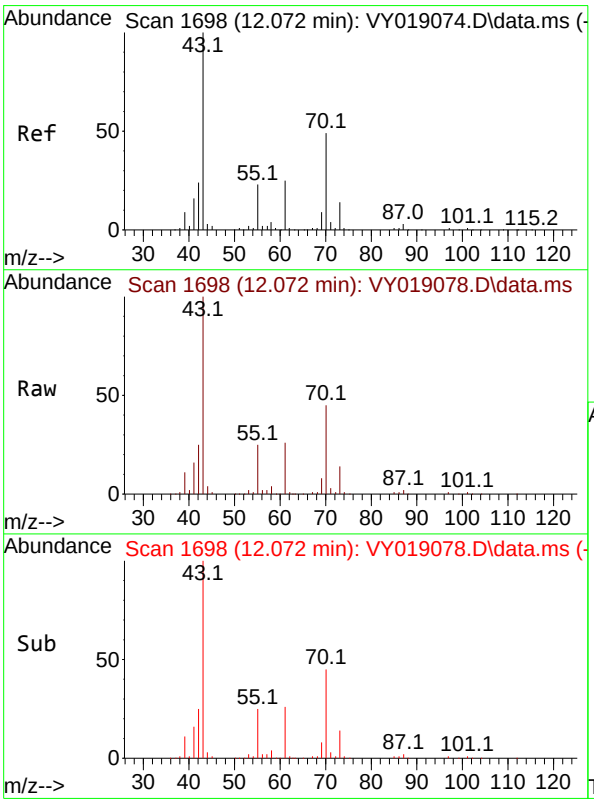
Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.4	40.1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

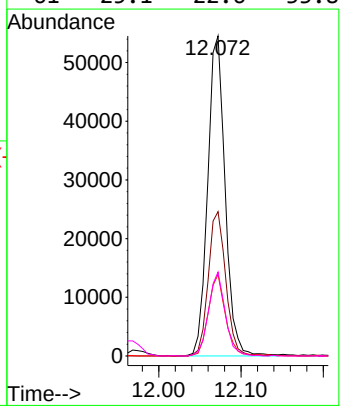


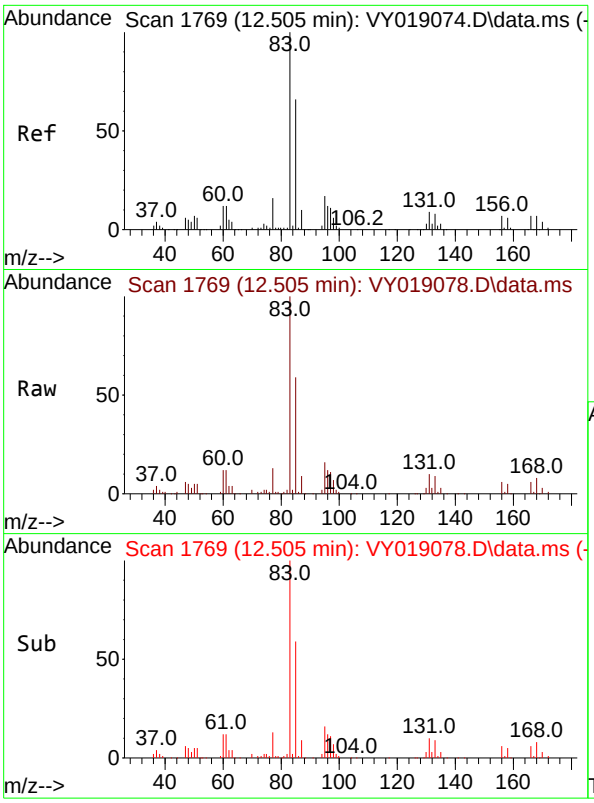


#74
N-amyl acetate
Concen: 50.740 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 43 Resp: 80620

Ion	Ratio	Lower	Upper
43	100		
70	45.3	41.4	62.2
55	25.0	23.3	34.9
61	25.1	22.6	33.8

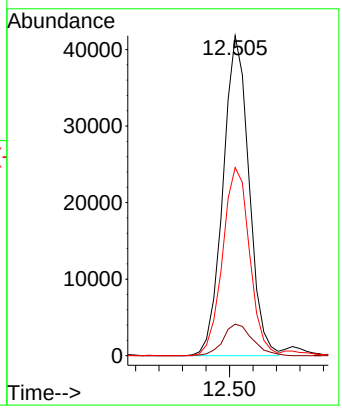




#75
1,1,2,2-Tetrachloroethane
Concen: 49.497 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 83 Resp: 6420

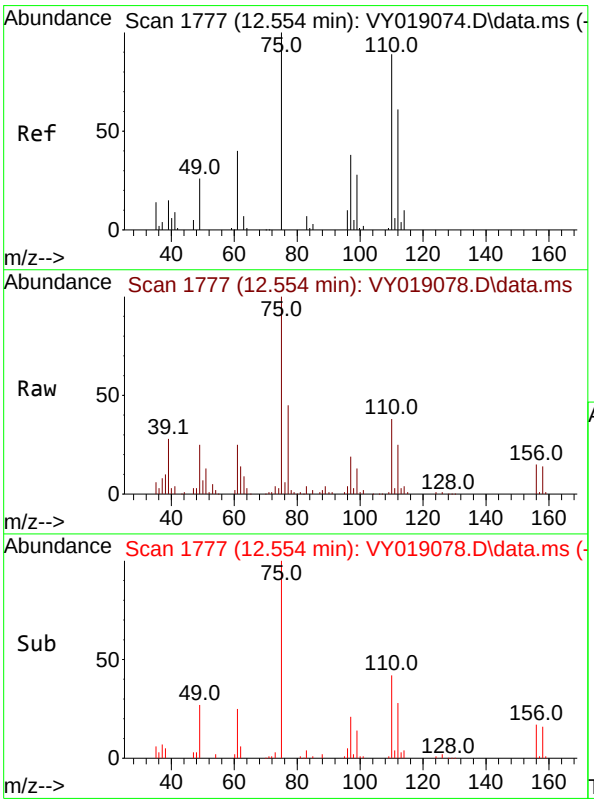
Ion	Ratio	Lower	Upper
83	100		
131	11.2	5.0	14.9
85	61.1	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

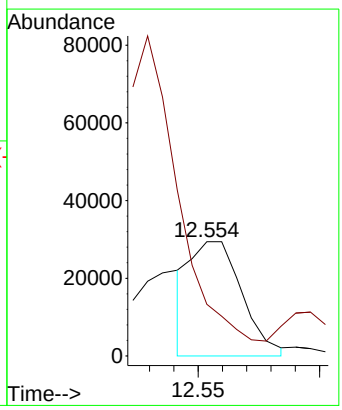
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

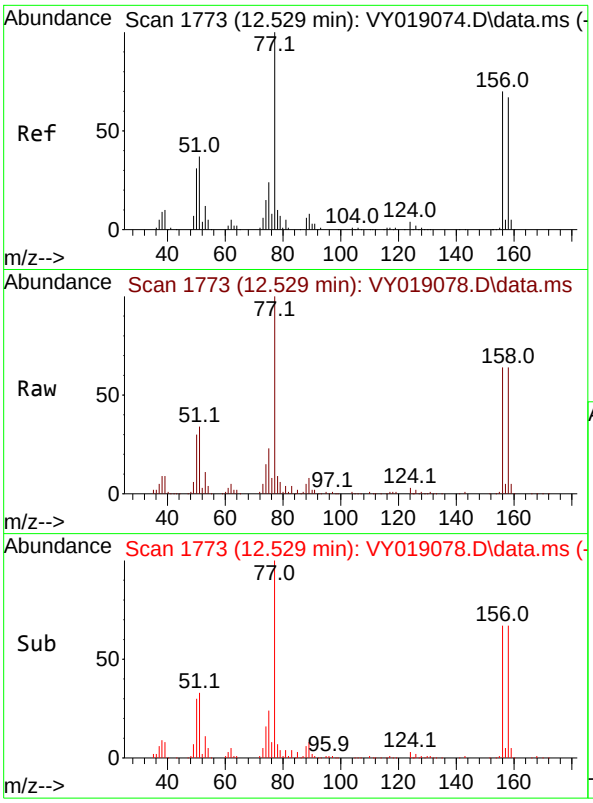


#76
1,2,3-Trichloropropane
Concen: 46.731 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 75 Resp: 43813

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

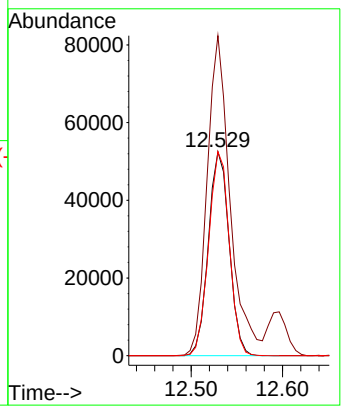




#77
Bromobenzene
Concen: 47.382 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:156 Resp: 8291

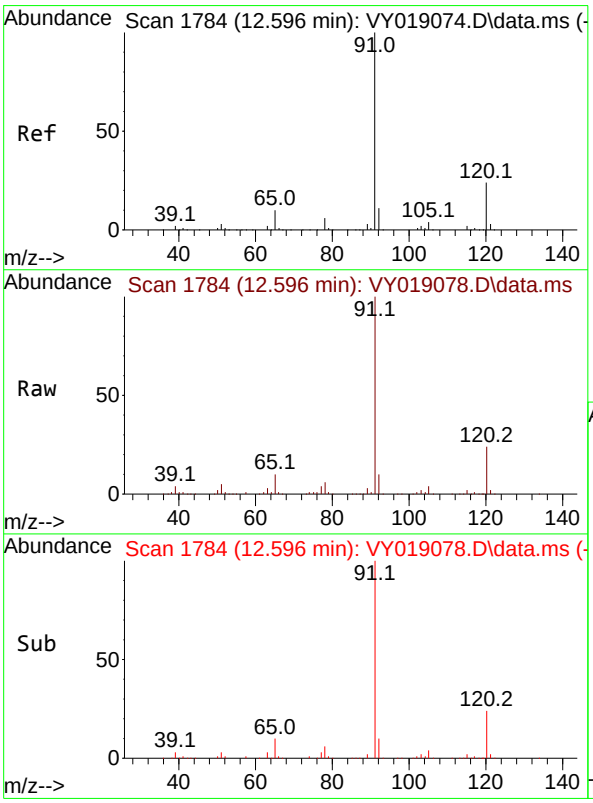
Ion	Ratio	Lower	Upper
156	100		
77	173.3	87.1	261.3
158	99.3	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

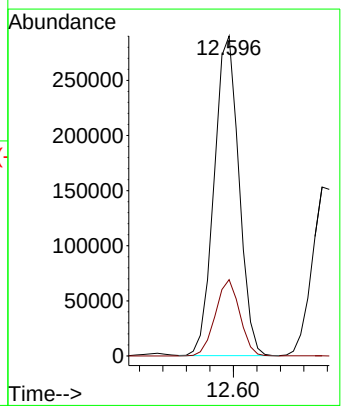
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

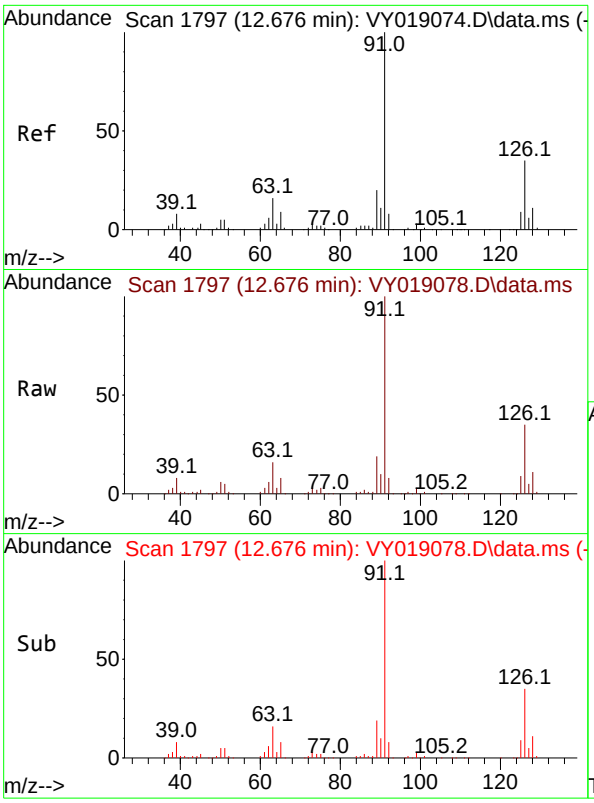


#78
n-propylbenzene
Concen: 48.793 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 91 Resp: 425016

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.5	34.4

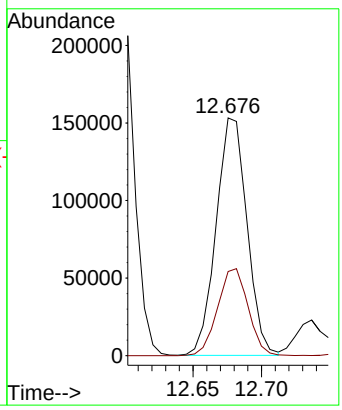




#79
2-Chlorotoluene
Concen: 49.190 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 91 Resp: 24022

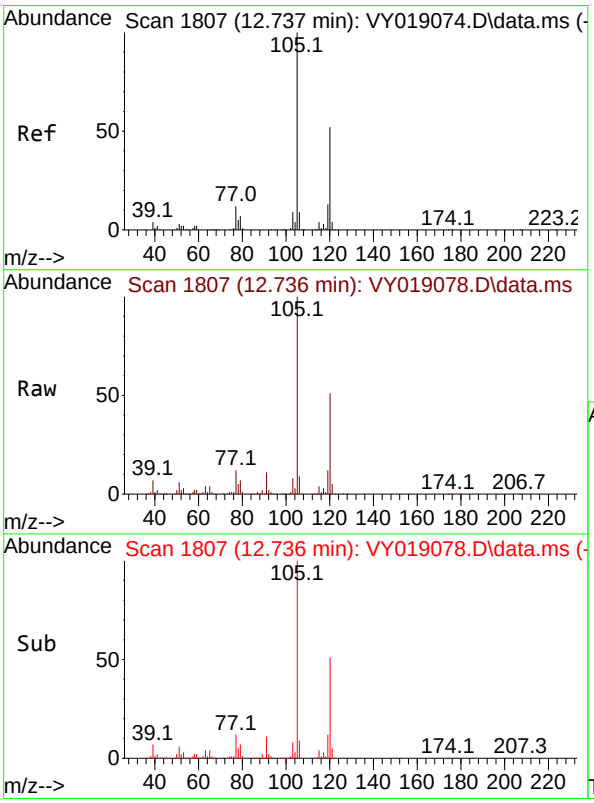
Ion	Ratio	Lower	Upper
91	100		
126	36.3	17.8	53.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

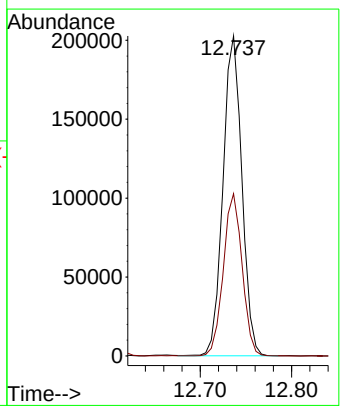
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

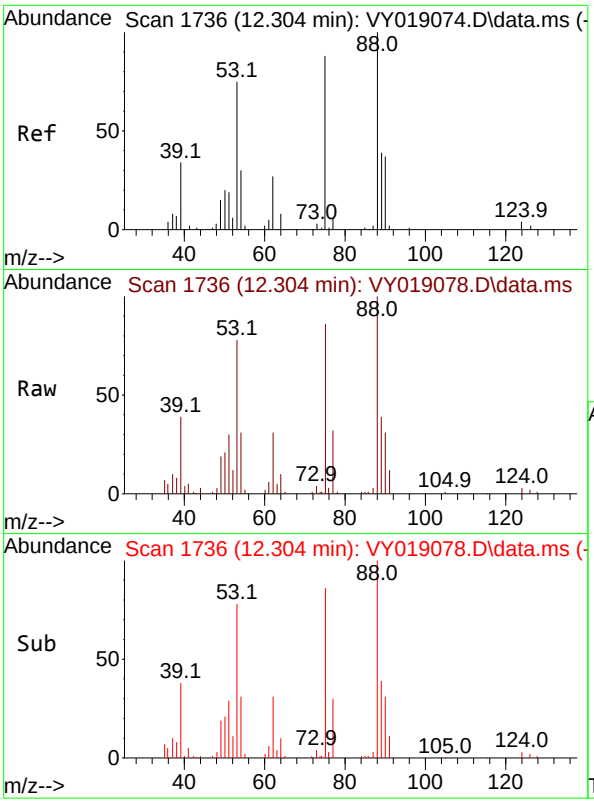


#80
1,3,5-Trimethylbenzene
Concen: 49.102 ug/l
RT: 12.736 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:105 Resp: 291472

Ion	Ratio	Lower	Upper
105	100		
120	50.5	25.1	75.2





#81
trans-1,4-Dichloro-2-butene
Concen: 47.278 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

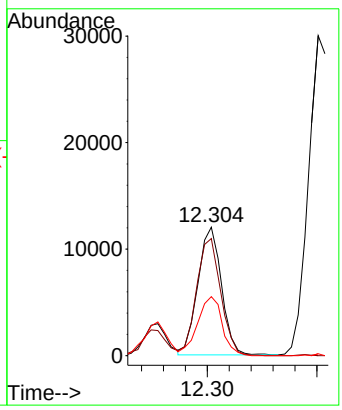
Tgt Ion: 75 Resp: 1794

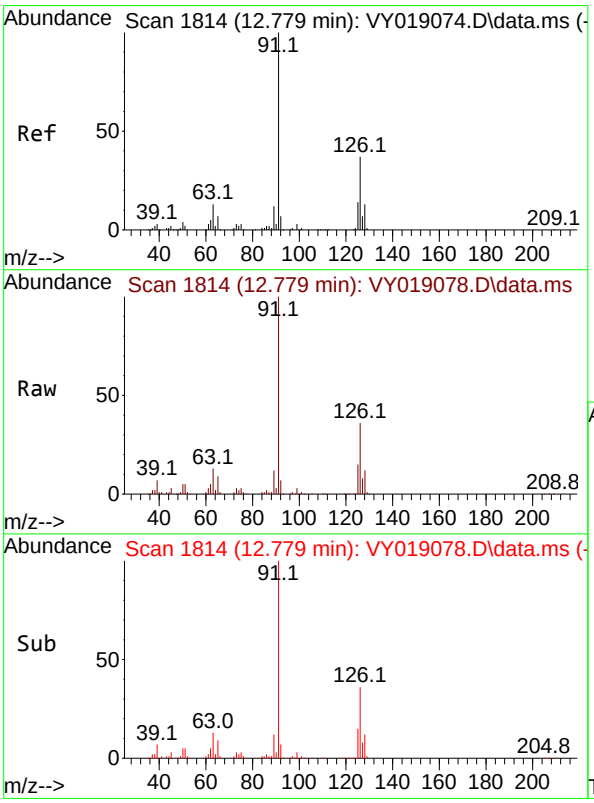
Ion	Ratio	Lower	Upper
75	100		
53	94.1	66.8	100.2
89	48.2	35.8	53.6

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

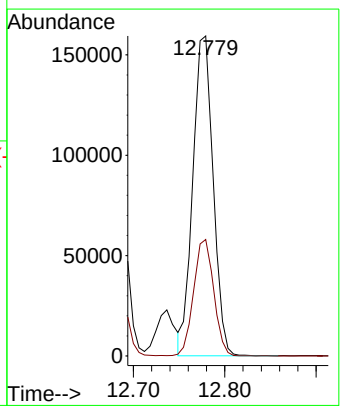


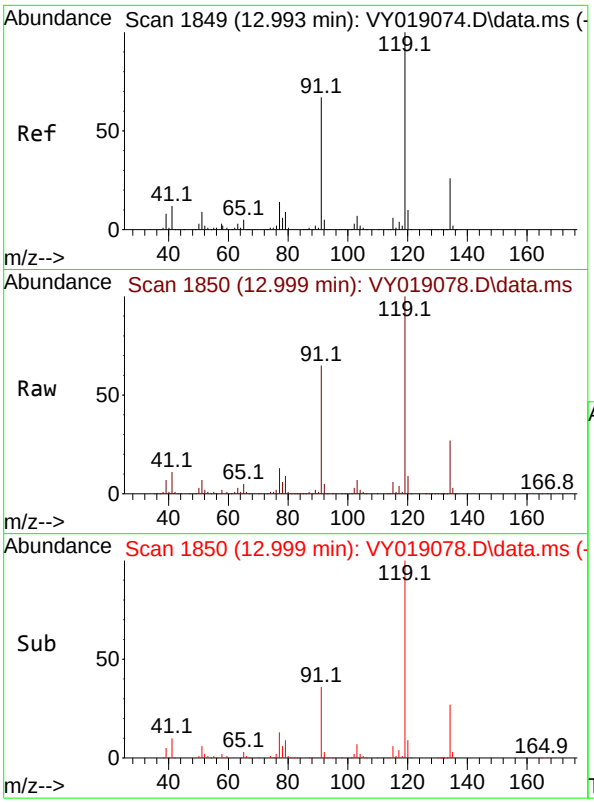


#82
4-Chlorotoluene
Concen: 48.497 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 91 Resp: 246401

Ion	Ratio	Lower	Upper
91	100		
126	36.2	17.6	52.9

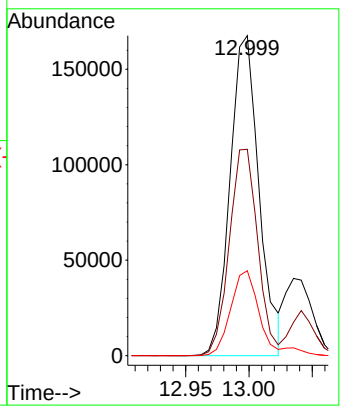




#83
tert-Butylbenzene
Concen: 48.835 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:119 Resp: 26770

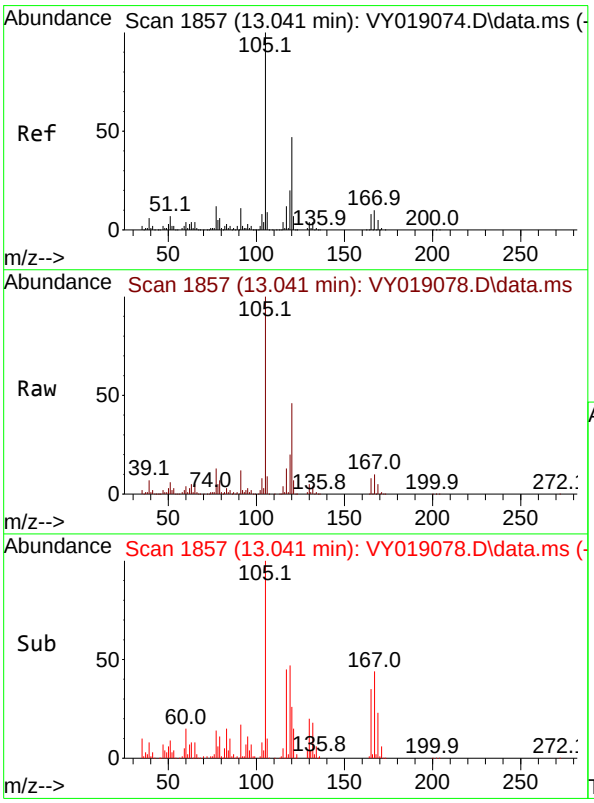
Ion	Ratio	Lower	Upper
119	100		
91	63.3	31.3	93.8
134	27.1	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

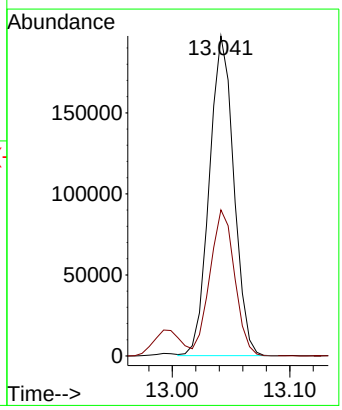
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

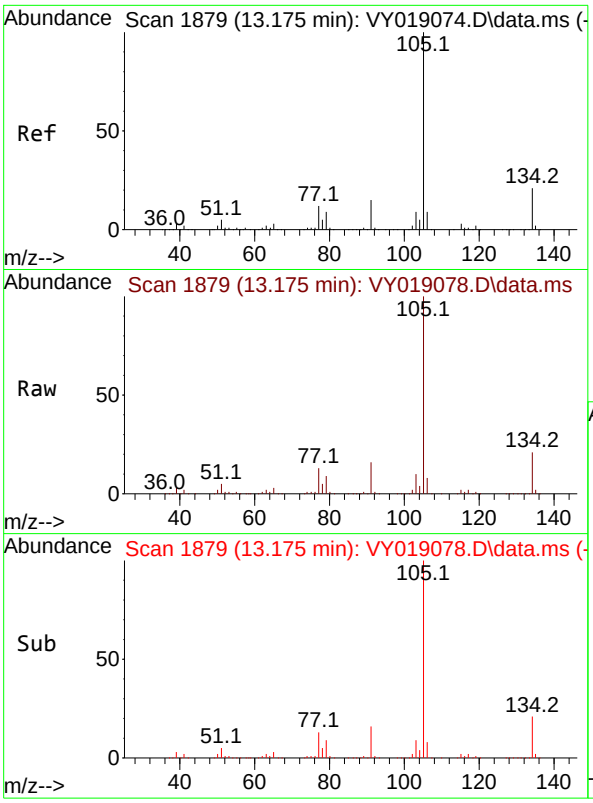


#84
1,2,4-Trimethylbenzene
Concen: 48.287 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:105 Resp: 285674

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.2	69.6

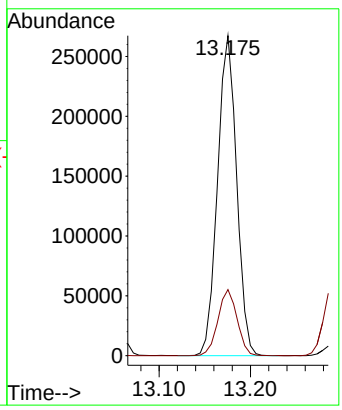




#85
sec-Butylbenzene
Concen: 48.704 ug/l
RT: 13.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:105 Resp: 38907

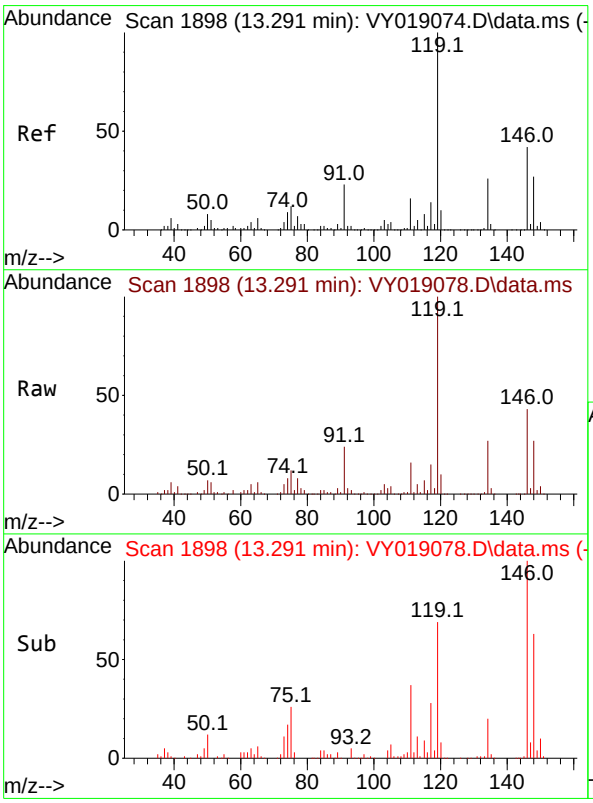
Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

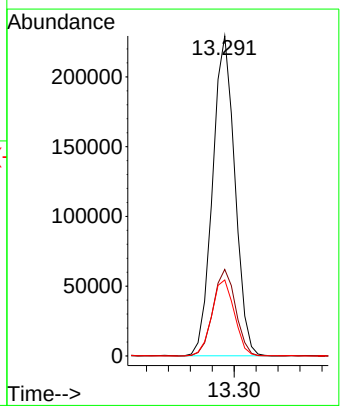
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

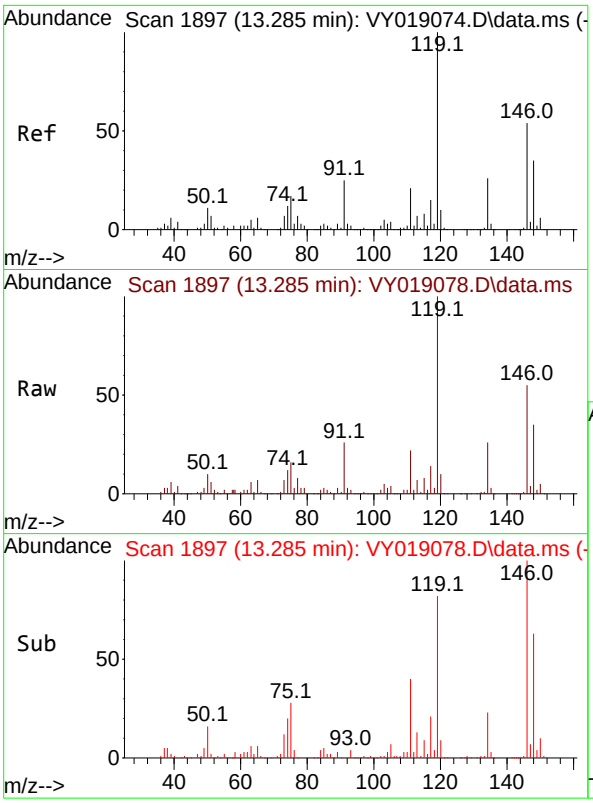


#86
p-Isopropyltoluene
Concen: 49.284 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:119 Resp: 323385

Ion	Ratio	Lower	Upper
119	100		
134	27.5	13.1	39.3
91	24.2	10.7	32.1

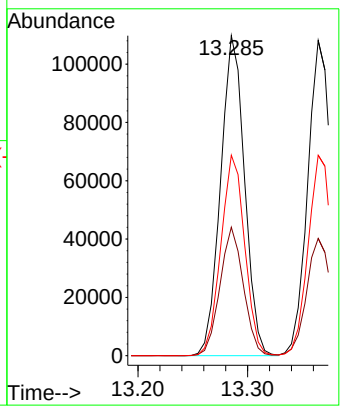




#87
1,3-Dichlorobenzene
Concen: 48.354 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:146 Resp: 16687

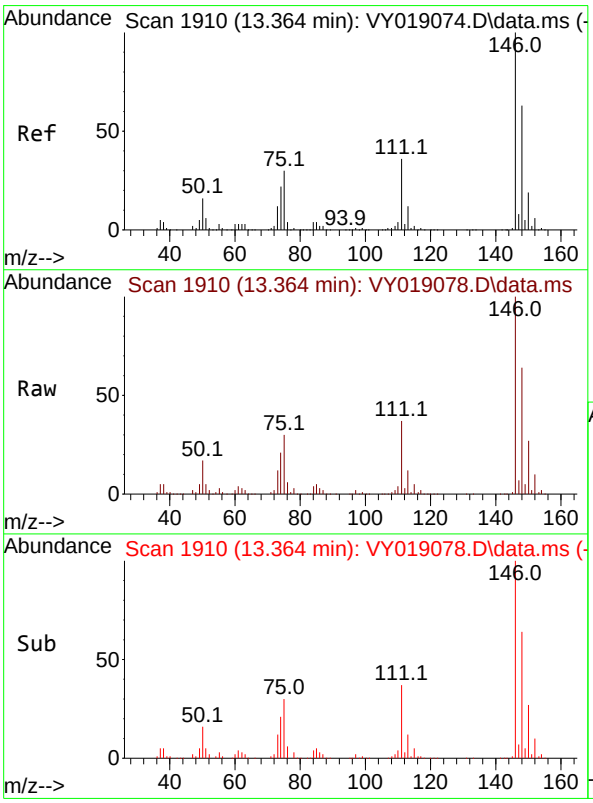
Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.0	57.0
148	62.4	31.7	95.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

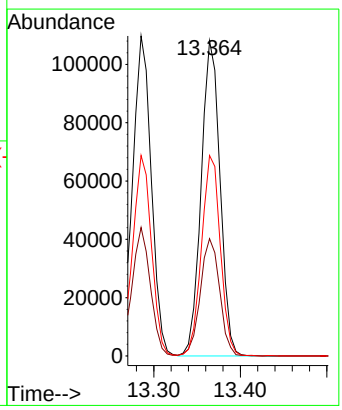
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

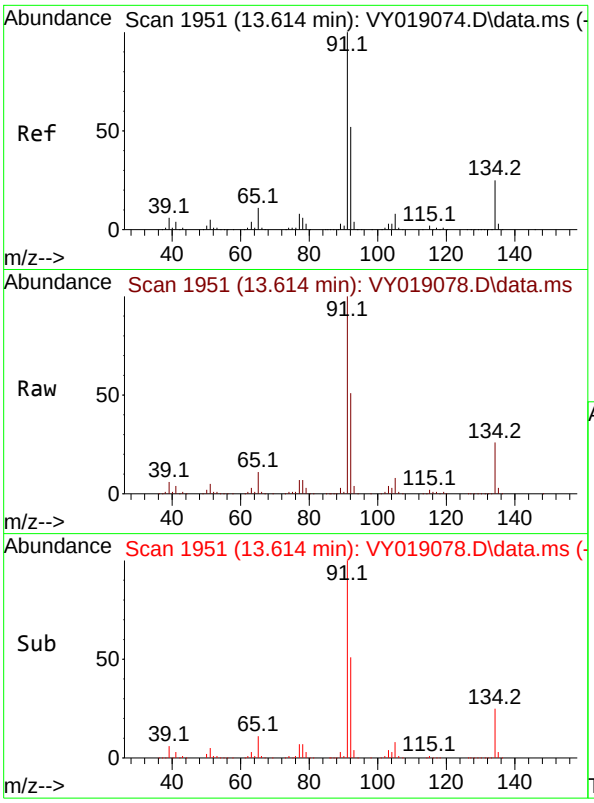


#88
1,4-Dichlorobenzene
Concen: 47.793 ug/l
RT: 13.364 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:146 Resp: 163955

Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.4	55.4
148	63.5	32.4	97.2

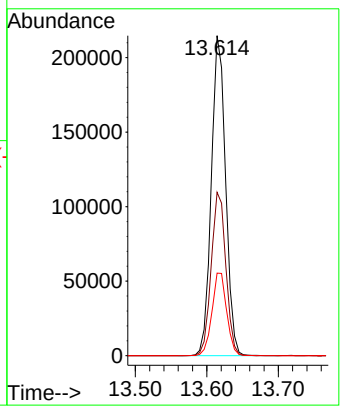




#89
n-Butylbenzene
Concen: 49.759 ug/l
RT: 13.614 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 91 Resp: 29767

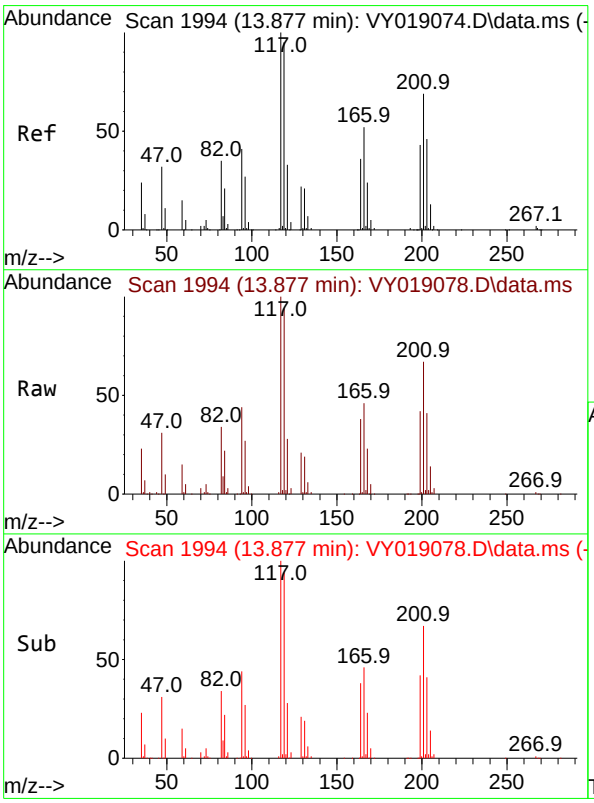
Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.6	79.7
134	26.6	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

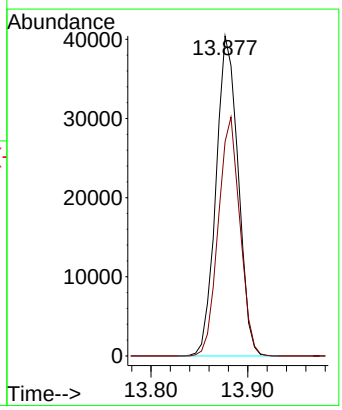
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

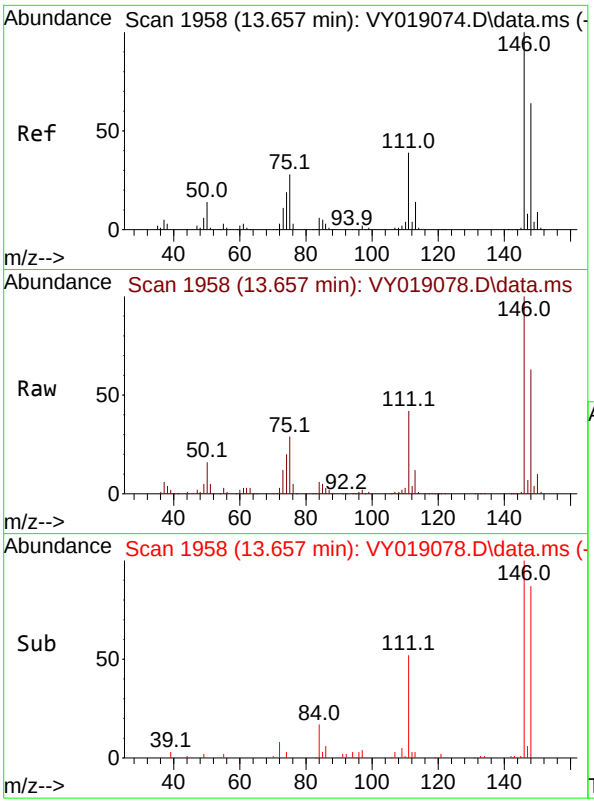


#90
Hexachloroethane
Concen: 49.728 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:117 Resp: 64315

Ion	Ratio	Lower	Upper
117	100		
201	72.9	37.4	112.2

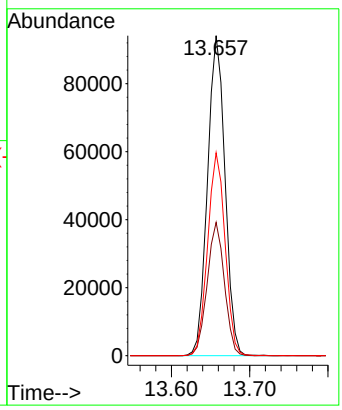




#91
1,2-Dichlorobenzene
Concen: 48.066 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:146 Resp: 14589

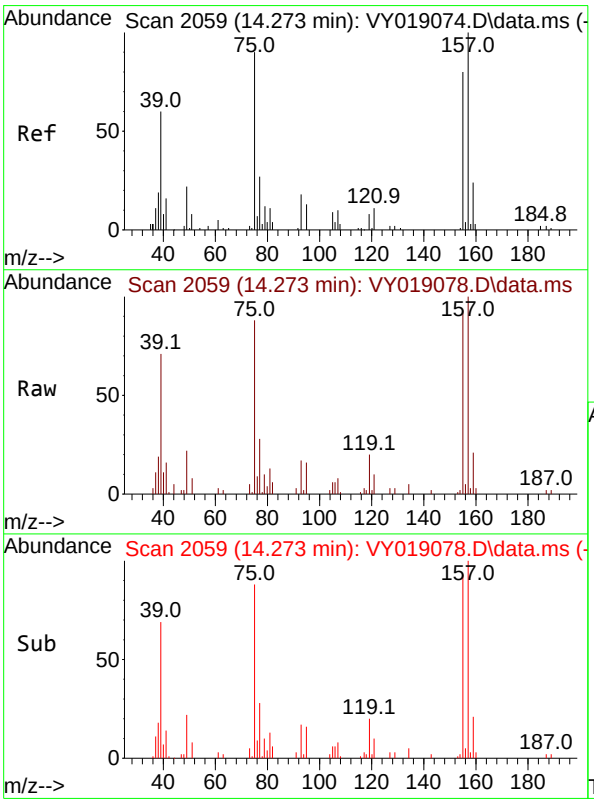
Ion	Ratio	Lower	Upper
146	100		
111	41.0	19.9	59.7
148	63.2	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

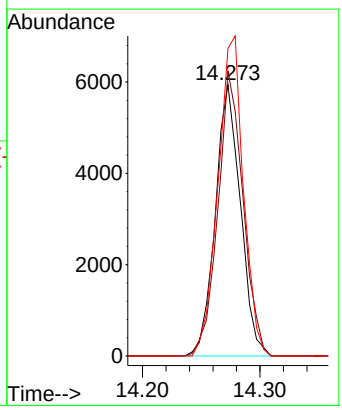
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

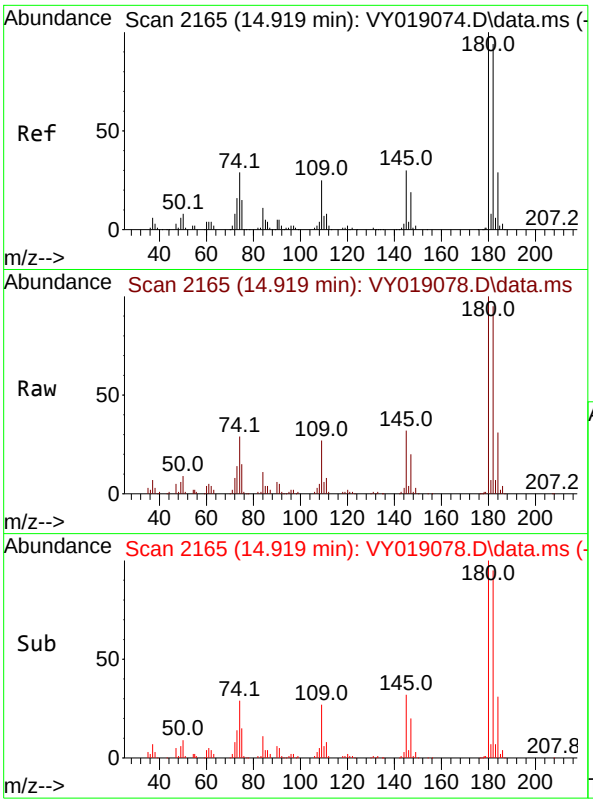


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.176 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion: 75 Resp: 8812

Ion	Ratio	Lower	Upper
75	100		
155	105.3	48.6	145.8
157	119.9	62.7	188.2

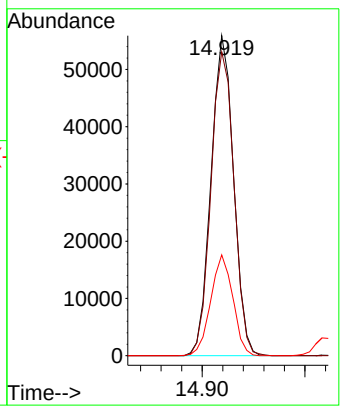




#93
1,2,4-Trichlorobenzene
Concen: 49.706 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:180 Resp: 8508

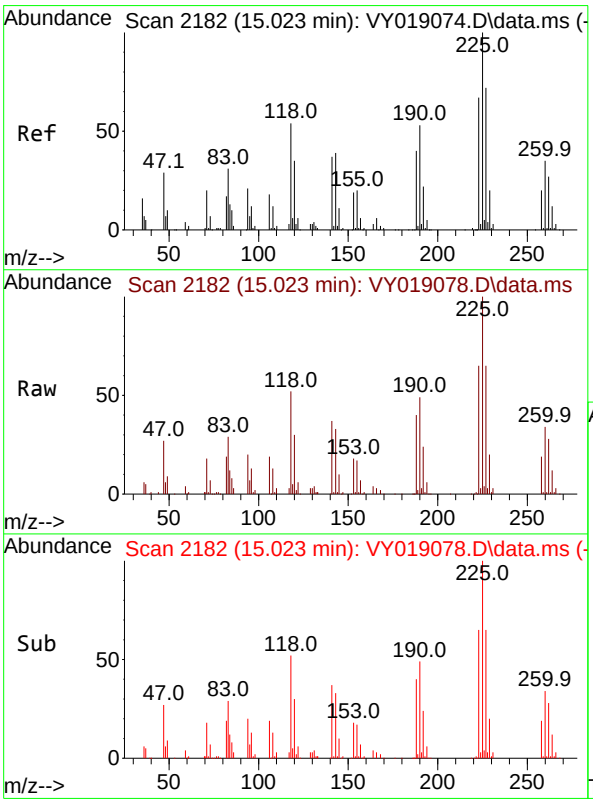
Ion	Ratio	Lower	Upper
180	100		
182	96.8	47.9	143.8
145	30.9	14.2	42.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations APPROVED

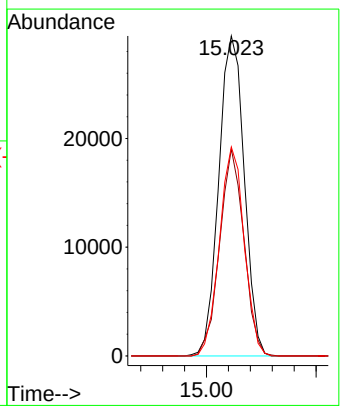
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024

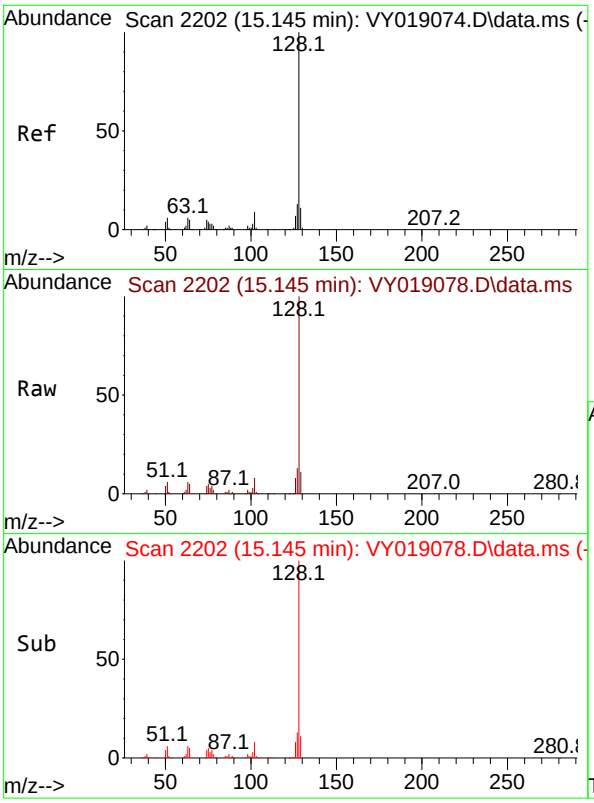


#94
Hexachlorobutadiene
Concen: 53.292 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:225 Resp: 47514

Ion	Ratio	Lower	Upper
225	100		
223	61.5	30.4	91.2
227	63.3	31.9	95.9

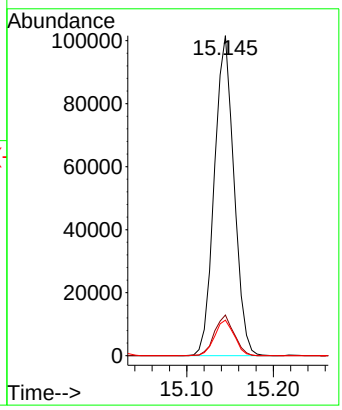




#95
Naphthalene
Concen: 52.371 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:128 Resp: 15998

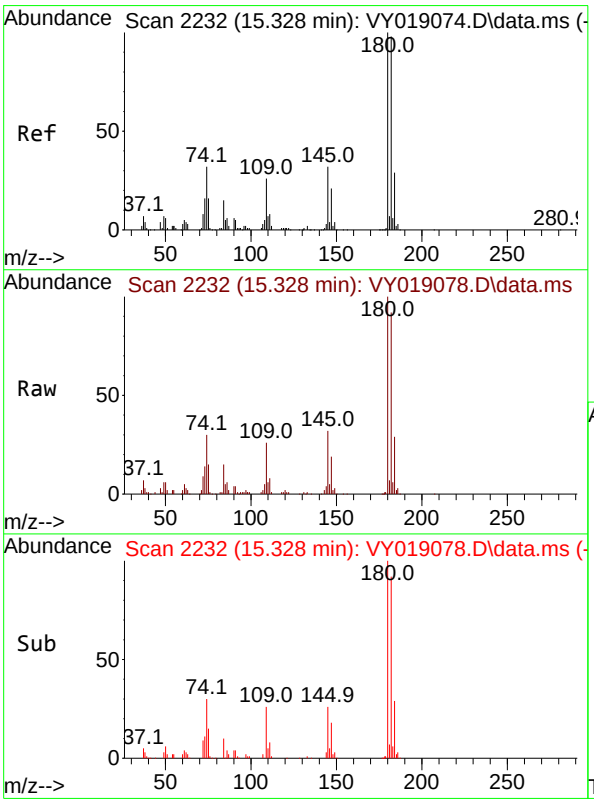
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	11.1	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Manual Integrations
APPROVED

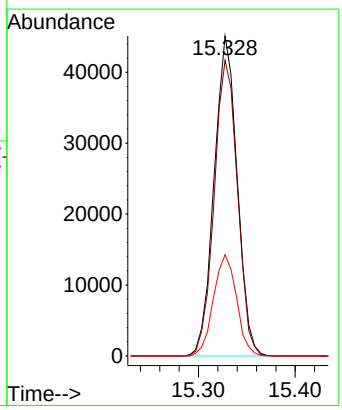
Reviewed By :Romaben Patel 08/16/2024
Supervised By :Mahesh Dadoda 08/16/2024



#96
1,2,3-Trichlorobenzene
Concen: 51.667 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY019078.D
Acq: 15 Aug 2024 20:39

Tgt Ion:180 Resp: 74591

Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.6	142.9
145	31.7	15.4	46.1



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019078.D
Acq On : 15 Aug 2024 20:39
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Quant Time: Aug 16 05:13:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	104	0.00
2	T	Dichlorodifluoromethane	0.367	0.358	2.5	99	0.00
3	P	Chloromethane	0.661	0.618	6.5	100	0.00
4	C	Vinyl Chloride	0.817	0.753	7.8#	97	0.00
5	T	Bromomethane	0.593	0.545	8.1	107	0.00
6	T	Chloroethane	0.530	0.484	8.7	98	0.00
7	T	Trichlorofluoromethane	1.235	1.114	9.8	96	0.00
8	T	Diethyl Ether	0.267	0.258	3.4	105	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.549	0.500	8.9	98	0.00
10	T	Methyl Iodide	0.538	0.498	7.4	86	0.00
11	T	Tert butyl alcohol	0.056	0.044	21.4	107	0.00
12	CM	1,1-Dichloroethene	0.499	0.466	6.6#	100	0.00
13	T	Acrolein	0.042	0.038	9.5	105	0.00
14	T	Allyl chloride	0.663	0.629	5.1	99	0.00
15	T	Acrylonitrile	0.109	0.108	0.9	99	0.00
16	T	Acetone	0.093	0.084	9.7	90	0.00
17	T	Carbon Disulfide	1.407	1.347	4.3	100	0.00
18	T	Methyl Acetate	0.285	0.274	3.9	102	0.00
19	T	Methyl tert-butyl Ether	1.209	1.182	2.2	99	0.00
20	T	Methylene Chloride	0.833	0.601	27.9#	105	-0.01
21	T	trans-1,2-Dichloroethene	0.557	0.534	4.1	99	0.00
22	T	Diisopropyl ether	1.518	1.453	4.3	99	0.00
23	T	Vinyl Acetate	1.202	1.178	2.0	99	0.00
24	P	1,1-Dichloroethane	0.928	0.873	5.9	101	0.00
25	T	2-Butanone	0.150	0.141	6.0	95	0.00
26	T	2,2-Dichloropropane	0.752	0.678	9.8	96	0.00
27	T	cis-1,2-Dichloroethene	0.656	0.629	4.1	100	0.00
28	T	Bromochloromethane	0.389	0.367	5.7	105	0.00
29	T	Tetrahydrofuran	0.096	0.091	5.2	97	0.00
30	C	Chloroform	1.034	0.988	4.4#	98	0.00
31	T	Cyclohexane	0.807	0.721	10.7	101	0.00
32	T	1,1,1-Trichloroethane	0.909	0.888	2.3	101	0.00
33	S	1,2-Dichloroethane-d4	0.501	0.485	3.2	106	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35	S	Dibromofluoromethane	0.327	0.323	1.2	105	0.00
36	T	1,1-Dichloropropene	0.449	0.424	5.6	101	0.00
37	T	Ethyl Acetate	0.199	0.204	-2.5	99	0.00
38	T	Carbon Tetrachloride	0.520	0.508	2.3	99	0.00
39	T	Methylcyclohexane	0.576	0.550	4.5	100	0.00
40	TM	Benzene	1.377	1.320	4.1	100	0.00
41	T	Methacrylonitrile	0.109	0.127	-16.5	112	-0.01
42	TM	1,2-Dichloroethane	0.372	0.352	5.4	96	0.00
43	T	Isopropyl Acetate	0.402	0.392	2.5	98	0.00
44	TM	Trichloroethene	0.384	0.368	4.2	102	0.00
45	C	1,2-Dichloropropane	0.307	0.301	2.0#	103	0.00
46	T	Dibromomethane	0.199	0.192	3.5	97	0.00
47	T	Bromodichloromethane	0.488	0.477	2.3	101	0.00
48	T	Methyl methacrylate	0.179	0.177	1.1	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019078.D
Acq On : 15 Aug 2024 20:39
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Quant Time: Aug 16 05:13:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	0.002	0.002	0.0	103	0.00
50	S	Toluene-d8	1.177	1.175	0.2	109	0.00
51	T	4-Methyl-2-Pentanone	0.213	0.216	-1.4	98	0.00
52	CM	Toluene	0.904	0.876	3.1#	101	0.00
53	T	t-1,3-Dichloropropene	0.405	0.407	-0.5	101	0.00
54	T	cis-1,3-Dichloropropene	0.487	0.477	2.1	97	0.00
55	T	1,1,2-Trichloroethane	0.256	0.252	1.6	101	0.00
56	T	Ethyl methacrylate	0.335	0.348	-3.9	102	0.00
57	T	1,3-Dichloropropane	0.418	0.417	0.2	101	0.00
58	T	2-Chloroethyl Vinyl ether	0.159	0.169	-6.3	110	0.00
59	T	2-Hexanone	0.147	0.145	1.4	96	0.00
60	T	Dibromochloromethane	0.349	0.347	0.6	101	0.00
61	T	1,2-Dibromoethane	0.248	0.246	0.8	100	0.00
62	S	4-Bromofluorobenzene	0.401	0.411	-2.5	106	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64	T	Tetrachloroethene	0.437	0.429	1.8	105	0.00
65	PM	Chlorobenzene	1.151	1.100	4.4	100	0.00
66	T	1,1,1,2-Tetrachloroethane	0.405	0.391	3.5	100	0.00
67	C	Ethyl Benzene	1.998	1.930	3.4#	100	0.00
68	T	m/p-Xylenes	0.793	0.759	4.3	98	0.00
69	T	o-Xylene	0.734	0.729	0.7	99	0.00
70	T	Styrene	1.252	1.230	1.8	98	0.00
71	P	Bromoform	0.231	0.228	1.3	97	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
73	T	Isopropylbenzene	3.832	3.782	1.3	100	0.00
74	T	N-amyl acetate	0.836	0.848	-1.4	98	0.00
75	P	1,1,2,2-Tetrachloroethane	0.682	0.675	1.0	100	0.00
76	T	1,2,3-Trichloropropane	0.493	0.461	6.5	99	0.00
77	T	Bromobenzene	0.920	0.872	5.2	97	0.00
78	T	n-propylbenzene	4.581	4.471	2.4	99	0.00
79	T	2-Chlorotoluene	2.568	2.527	1.6	100	0.00
80	T	1,3,5-Trimethylbenzene	3.122	3.066	1.8	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.200	0.189	5.5	94	0.00
82	T	4-Chlorotoluene	2.672	2.592	3.0	98	0.00
83	T	tert-Butylbenzene	2.883	2.816	2.3	99	0.00
84	T	1,2,4-Trimethylbenzene	3.112	3.005	3.4	97	0.00
85	T	sec-Butylbenzene	4.201	4.093	2.6	99	0.00
86	T	p-Isopropyltoluene	3.451	3.402	1.4	98	0.00
87	T	1,3-Dichlorobenzene	1.815	1.755	3.3	98	0.00
88	T	1,4-Dichlorobenzene	1.804	1.725	4.4	98	0.00
89	T	n-Butylbenzene	3.146	3.131	0.5	98	0.00
90	T	Hexachloroethane	0.680	0.677	0.4	99	0.00
91	T	1,2-Dichlorobenzene	1.596	1.535	3.8	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.100	0.093	7.0	92	0.00
93	T	1,2,4-Trichlorobenzene	0.900	0.895	0.6	97	0.00
94	T	Hexachlorobutadiene	0.469	0.500	-6.6	102	0.00
95	T	Naphthalene	1.607	1.683	-4.7	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019078.D
Acq On : 15 Aug 2024 20:39
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Quant Time: Aug 16 05:13:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	0.759	0.785	-3.4	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019078.D
Acq On : 15 Aug 2024 20:39
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Quant Time: Aug 16 05:13:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	104	0.00
2	T	Dichlorodifluoromethane	50.000	48.862	2.3	99	0.00
3	P	Chloromethane	50.000	46.694	6.6	100	0.00
4	C	Vinyl Chloride	50.000	46.103	7.8#	97	0.00
5	T	Bromomethane	50.000	55.321	-10.6	107	0.00
6	T	Chloroethane	50.000	46.200	7.6	98	0.00
7	T	Trichlorofluoromethane	50.000	45.114	9.8	96	0.00
8	T	Diethyl Ether	50.000	48.474	3.1	105	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	45.519	9.0	98	0.00
10	T	Methyl Iodide	50.000	46.281	7.4	86	0.00
11	T	Tert butyl alcohol	250.000	258.538	-3.4	107	0.00
12	CM	1,1-Dichloroethene	50.000	46.717	6.6#	100	0.00
13	T	Acrolein	250.000	252.873	-1.1	105	0.00
14	T	Allyl chloride	50.000	47.431	5.1	99	0.00
15	T	Acrylonitrile	250.000	248.151	0.7	99	0.00
16	T	Acetone	250.000	226.691	9.3	90	0.00
17	T	Carbon Disulfide	50.000	47.885	4.2	100	0.00
18	T	Methyl Acetate	50.000	47.958	4.1	102	0.00
19	T	Methyl tert-butyl Ether	50.000	48.891	2.2	99	0.00
20	T	Methylene Chloride	50.000	52.630	-5.3	105	-0.01
21	T	trans-1,2-Dichloroethene	50.000	47.911	4.2	99	0.00
22	T	Diisopropyl ether	50.000	47.853	4.3	99	0.00
23	T	Vinyl Acetate	250.000	245.090	2.0	99	0.00
24	P	1,1-Dichloroethane	50.000	47.009	6.0	101	0.00
25	T	2-Butanone	250.000	235.558	5.8	95	0.00
26	T	2,2-Dichloropropane	50.000	45.106	9.8	96	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.996	4.0	100	0.00
28	T	Bromochloromethane	50.000	47.159	5.7	105	0.00
29	T	Tetrahydrofuran	250.000	235.236	5.9	97	0.00
30	C	Chloroform	50.000	47.771	4.5#	98	0.00
31	T	Cyclohexane	50.000	50.332	-0.7	101	0.00
32	T	1,1,1-Trichloroethane	50.000	48.817	2.4	101	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.368	3.3	106	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35	S	Dibromofluoromethane	50.000	49.438	1.1	105	0.00
36	T	1,1-Dichloropropene	50.000	47.172	5.7	101	0.00
37	T	Ethyl Acetate	50.000	51.311	-2.6	99	0.00
38	T	Carbon Tetrachloride	50.000	48.784	2.4	99	0.00
39	T	Methylcyclohexane	50.000	47.693	4.6	100	0.00
40	TM	Benzene	50.000	47.950	4.1	100	0.00
41	T	Methacrylonitrile	50.000	58.415	-16.8	112	-0.01
42	TM	1,2-Dichloroethane	50.000	47.312	5.4	96	0.00
43	T	Isopropyl Acetate	50.000	48.755	2.5	98	0.00
44	TM	Trichloroethene	50.000	47.856	4.3	102	0.00
45	C	1,2-Dichloropropane	50.000	49.136	1.7#	103	0.00
46	T	Dibromomethane	50.000	48.307	3.4	97	0.00
47	T	Bromodichloromethane	50.000	48.824	2.4	101	0.00
48	T	Methyl methacrylate	50.000	49.412	1.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019078.D
Acq On : 15 Aug 2024 20:39
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Quant Time: Aug 16 05:13:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	1009.560	-1.0	103	0.00
50	S	Toluene-d8	50.000	49.940	0.1	109	0.00
51	T	4-Methyl-2-Pentanone	250.000	252.864	-1.1	98	0.00
52	CM	Toluene	50.000	48.489	3.0#	101	0.00
53	T	t-1,3-Dichloropropene	50.000	50.207	-0.4	101	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.024	2.0	97	0.00
55	T	1,1,2-Trichloroethane	50.000	49.272	1.5	101	0.00
56	T	Ethyl methacrylate	50.000	51.869	-3.7	102	0.00
57	T	1,3-Dichloropropane	50.000	49.966	0.1	101	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	265.740	-6.3	110	0.00
59	T	2-Hexanone	250.000	246.958	1.2	96	0.00
60	T	Dibromochloromethane	50.000	49.713	0.6	101	0.00
61	T	1,2-Dibromoethane	50.000	49.710	0.6	100	0.00
62	S	4-Bromofluorobenzene	50.000	51.204	-2.4	106	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64	T	Tetrachloroethene	50.000	49.025	2.0	105	0.00
65	PM	Chlorobenzene	50.000	47.770	4.5	100	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.274	3.5	100	0.00
67	C	Ethyl Benzene	50.000	48.286	3.4#	100	0.00
68	T	m/p-Xylenes	100.000	95.737	4.3	98	0.00
69	T	o-Xylene	50.000	49.610	0.8	99	0.00
70	T	Styrene	50.000	49.120	1.8	98	0.00
71	P	Bromoform	50.000	49.301	1.4	97	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	101	0.00
73	T	Isopropylbenzene	50.000	49.343	1.3	100	0.00
74	T	N-amyl acetate	50.000	50.740	-1.5	98	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.497	1.0	100	0.00
76	T	1,2,3-Trichloropropane	50.000	46.731	6.5	99	0.00
77	T	Bromobenzene	50.000	47.382	5.2	97	0.00
78	T	n-propylbenzene	50.000	48.793	2.4	99	0.00
79	T	2-Chlorotoluene	50.000	49.190	1.6	100	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.102	1.8	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.278	5.4	94	0.00
82	T	4-Chlorotoluene	50.000	48.497	3.0	98	0.00
83	T	tert-Butylbenzene	50.000	48.835	2.3	99	0.00
84	T	1,2,4-Trimethylbenzene	50.000	48.287	3.4	97	0.00
85	T	sec-Butylbenzene	50.000	48.704	2.6	99	0.00
86	T	p-Isopropyltoluene	50.000	49.284	1.4	98	0.00
87	T	1,3-Dichlorobenzene	50.000	48.354	3.3	98	0.00
88	T	1,4-Dichlorobenzene	50.000	47.793	4.4	98	0.00
89	T	n-Butylbenzene	50.000	49.759	0.5	98	0.00
90	T	Hexachloroethane	50.000	49.728	0.5	99	0.00
91	T	1,2-Dichlorobenzene	50.000	48.066	3.9	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	46.176	7.6	92	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.706	0.6	97	0.00
94	T	Hexachlorobutadiene	50.000	53.292	-6.6	102	0.00
95	T	Naphthalene	50.000	52.371	-4.7	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019078.D
Acq On : 15 Aug 2024 20:39
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081524

Quant Time: Aug 16 05:13:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.667	-3.3	98	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.: P3671 SAS No.: P3671 SDG No.: P3671

Instrument ID: MSVOA_Y Calibration Date/Time: 08/22/2024 01:25

Lab File ID: VY019191.D Init. Calib. Date(s): 08/15/2024 08/15/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 17:24 19:50

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.367	0.345		-5.99	20
Chloromethane	0.661	0.558	0.1	-15.58	20
Vinyl Chloride	0.817	0.674		-17.5	20
Bromomethane	0.593	0.465		-21.58	20
Chloroethane	0.530	0.433		-18.3	20
1,1,2-Trichlorotrifluoroethane	0.549	0.505		-8.02	20
1,1-Dichloroethene	0.499	0.477		-4.41	20
Acetone	0.093	0.084		-9.68	20
Carbon Disulfide	1.407	1.345		-4.41	20
Methyl tert-butyl Ether	1.209	1.211		0.17	20
Methylene Chloride	0.833	0.570		-31.57	20
trans-1,2-Dichloroethene	0.557	0.546		-1.98	20
1,1-Dichloroethane	0.928	0.917	0.1	-1.18	20
Cyclohexane	0.807	0.698		-13.51	20
2-Butanone	0.150	0.139		-7.33	20
Carbon Tetrachloride	0.520	0.523		0.58	20
cis-1,2-Dichloroethene	0.656	0.633		-3.51	20
Chloroform	1.034	1.028		-0.58	20
1,1,1-Trichloroethane	0.909	0.885		-2.64	20
Methylcyclohexane	0.576	0.530		-7.99	20
Benzene	1.377	1.341		-2.61	20
1,2-Dichloroethane	0.372	0.380		2.15	20
Trichloroethene	0.384	0.357		-7.03	20
Bromodichloromethane	0.488	0.485		-0.62	20
Toluene	0.904	0.899		-0.55	20
1,1,2-Trichloroethane	0.256	0.245		-4.3	20
Dibromochloromethane	0.349	0.340		-2.58	20
Tetrachloroethene	0.437	0.421		-3.66	20
Chlorobenzene	1.151	1.094	0.3	-4.95	20
Ethyl Benzene	1.998	1.941		-2.85	20
m/p-Xylenes	0.793	0.763		-3.78	20
o-Xylene	0.734	0.713		-2.86	20
Isopropylbenzene	3.832	3.761		-1.85	20
1,4-Dichlorobenzene	1.804	1.676		-7.09	20
1,2-Dichlorobenzene	1.596	1.504		-5.76	20
1,2-Dichloroethane-d4	0.501	0.509		1.6	20
Dibromofluoromethane	0.327	0.292		-10.7	20
Toluene-d8	1.177	1.148		-2.46	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3671 SAS No.: P3671 SDG No.: P3671

Instrument ID: MSVOA_Y Calibration Date/Time: 08/22/2024 01:25

Lab File ID: VY019191.D Init. Calib. Date(s): 08/15/2024 08/15/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 17:24 19:50

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
4-Bromofluorobenzene	0.401	0.387		-3.49	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_Y\Data\VY082124\
Data File : VY019191.D
Acq On : 22 Aug 2024 01:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Aug 22 03:46:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	132896	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.609	114	216735	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	191813	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	94816	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	67673	50.799	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.600%			
35) Dibromofluoromethane	7.628	113	63231	44.619	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 89.240%			
50) Toluene-d8	10.103	98	248885	48.803	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.600%			
62) 4-Bromofluorobenzene	12.408	95	83799	48.201	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 96.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	45882	47.057	ug/l	98
3) Chloromethane	2.068	50	74098	42.162	ug/l	99
4) Vinyl Chloride	2.202	62	89620	41.283	ug/l	99
5) Bromomethane	2.592	94	61804	46.175	ug/l	98
6) Chloroethane	2.732	64	57530	40.920	ug/l	98
7) Trichlorofluoromethane	3.049	101	134601	41.011	ug/l	96
8) Diethyl Ether	3.446	74	32960	46.525	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.812	101	67135	46.011	ug/l	98
10) Methyl Iodide	4.000	142	75012	52.449	ug/l	92
11) Tert butyl alcohol	4.830	59	29943m	266.517	ug/l	
12) 1,1-Dichloroethene	3.787	96	63351	47.789	ug/l	98
13) Acrolein	3.647	56	18601	180.429	ug/l	97
14) Allyl chloride	4.378	41	90744	51.486	ug/l	91
15) Acrylonitrile	5.043	53	71987	248.340	ug/l	97
16) Acetone	3.860	43	56076	226.976	ug/l	88
17) Carbon Disulfide	4.098	76	178810	47.823	ug/l	98
18) Methyl Acetate	4.378	43	37698	49.718	ug/l	96
19) Methyl tert-butyl Ether	5.116	73	160993	50.093	ug/l	97
20) Methylene Chloride	4.610	84	75718	49.182	ug/l	94
21) trans-1,2-Dichloroethene	5.104	96	72499	48.952	ug/l	98
22) Diisopropyl ether	6.012	45	209397	51.898	ug/l	94
23) Vinyl Acetate	5.951	43	773220	242.055	ug/l	97
24) 1,1-Dichloroethane	5.909	63	121850	49.383	ug/l	96
25) 2-Butanone	6.878	43	92314	232.016	ug/l #	87
26) 2,2-Dichloropropane	6.878	77	91885	45.986	ug/l	98
27) cis-1,2-Dichloroethene	6.884	96	84179	48.298	ug/l	98
28) Bromochloromethane	7.238	49	53495	51.683	ug/l	95
29) Tetrahydrofuran	7.256	42	63725	249.154	ug/l	91
30) Chloroform	7.415	83	136587	49.677	ug/l	97
31) Cyclohexane	7.689	56	92788	48.570	ug/l	96
32) 1,1,1-Trichloroethane	7.610	97	117635	48.684	ug/l	99
36) 1,1-Dichloropropene	7.829	75	93910	48.258	ug/l	98
37) Ethyl Acetate	6.976	43	43643	50.620	ug/l	96
38) Carbon Tetrachloride	7.811	117	113247	50.216	ug/l	96
39) Methylcyclohexane	9.103	83	114769	45.958	ug/l	96
40) Benzene	8.073	78	290534	48.680	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019191.D
Acq On : 22 Aug 2024 01:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Aug 22 03:46:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	26746m	56.836	ug/l		
42) 1,2-Dichloroethane	8.152	62	82407	51.131	ug/l		95
43) Isopropyl Acetate	8.189	43	87961	50.447	ug/l		91
44) Trichloroethene	8.859	130	77302	46.419	ug/l		100
45) 1,2-Dichloropropane	9.140	63	62986	47.367	ug/l		97
46) Dibromomethane	9.231	93	40741	47.238	ug/l		99
47) Bromodichloromethane	9.420	83	105112	49.676	ug/l		98
48) Methyl methacrylate	9.219	41	40039	51.525	ug/l		86
49) 1,4-Dioxane	9.219	88	9451	904.612	ug/l	#	96
51) 4-Methyl-2-Pentanone	9.999	43	237401	256.524	ug/l		91
52) Toluene	10.170	92	194854	49.737	ug/l		96
53) t-1,3-Dichloropropene	10.396	75	87688	49.957	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	100705	47.706	ug/l	#	89
55) 1,1,2-Trichloroethane	10.572	97	53184	47.901	ug/l		97
56) Ethyl methacrylate	10.438	69	71231	49.015	ug/l	#	79
57) 1,3-Dichloropropane	10.719	76	88558	48.929	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	155687	225.822	ug/l		98
59) 2-Hexanone	10.761	43	159841	251.400	ug/l		89
60) Dibromochloromethane	10.914	129	73762	48.777	ug/l		99
61) 1,2-Dibromoethane	11.018	107	50662	47.210	ug/l		98
64) Tetrachloroethene	10.646	164	80693	48.129	ug/l		97
65) Chlorobenzene	11.444	112	209783	47.497	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	74802	48.159	ug/l		98
67) Ethyl Benzene	11.517	91	372382	48.576	ug/l		99
68) m/p-Xylenes	11.627	106	292684	96.221	ug/l		99
69) o-Xylene	11.956	106	136761	48.551	ug/l		99
70) Styrene	11.969	104	236434	49.221	ug/l		98
71) Bromoform	12.133	173	42507	47.874	ug/l	#	98
73) Isopropylbenzene	12.255	105	356580	49.067	ug/l		99
74) N-amyl acetate	12.072	43	80732	50.946	ug/l		90
75) 1,1,2,2-Tetrachloroethane	12.511	83	57457	44.410	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	38803m	41.498	ug/l		
77) Bromobenzene	12.536	156	84190	48.239	ug/l		97
78) n-propylbenzene	12.597	91	411766	47.398	ug/l		99
79) 2-Chlorotoluene	12.682	91	237105	48.681	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	264001	44.593	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.310	75	17328	45.767	ug/l		86
82) 4-Chlorotoluene	12.779	91	226899	44.777	ug/l		99
83) tert-Butylbenzene	12.999	119	243855	44.603	ug/l		100
84) 1,2,4-Trimethylbenzene	13.048	105	264462	44.821	ug/l		100
85) sec-Butylbenzene	13.176	105	354356	44.477	ug/l		99
86) p-Isopropyltoluene	13.292	119	306302	46.805	ug/l		98
87) 1,3-Dichlorobenzene	13.292	146	160910	46.750	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	158953	46.459	ug/l		98
89) n-Butylbenzene	13.621	91	272677	45.702	ug/l		99
90) Hexachloroethane	13.883	117	60985	47.279	ug/l		99
91) 1,2-Dichlorobenzene	13.663	146	142597	47.106	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	8962	47.087	ug/l		93
93) 1,2,4-Trichlorobenzene	14.925	180	75477	44.213	ug/l		96
94) Hexachlorobutadiene	15.029	225	42627	47.939	ug/l		99
95) Naphthalene	15.145	128	141024	46.287	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	63779	44.296	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019191.D
Acq On : 22 Aug 2024 01:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Aug 22 03:46:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

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

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

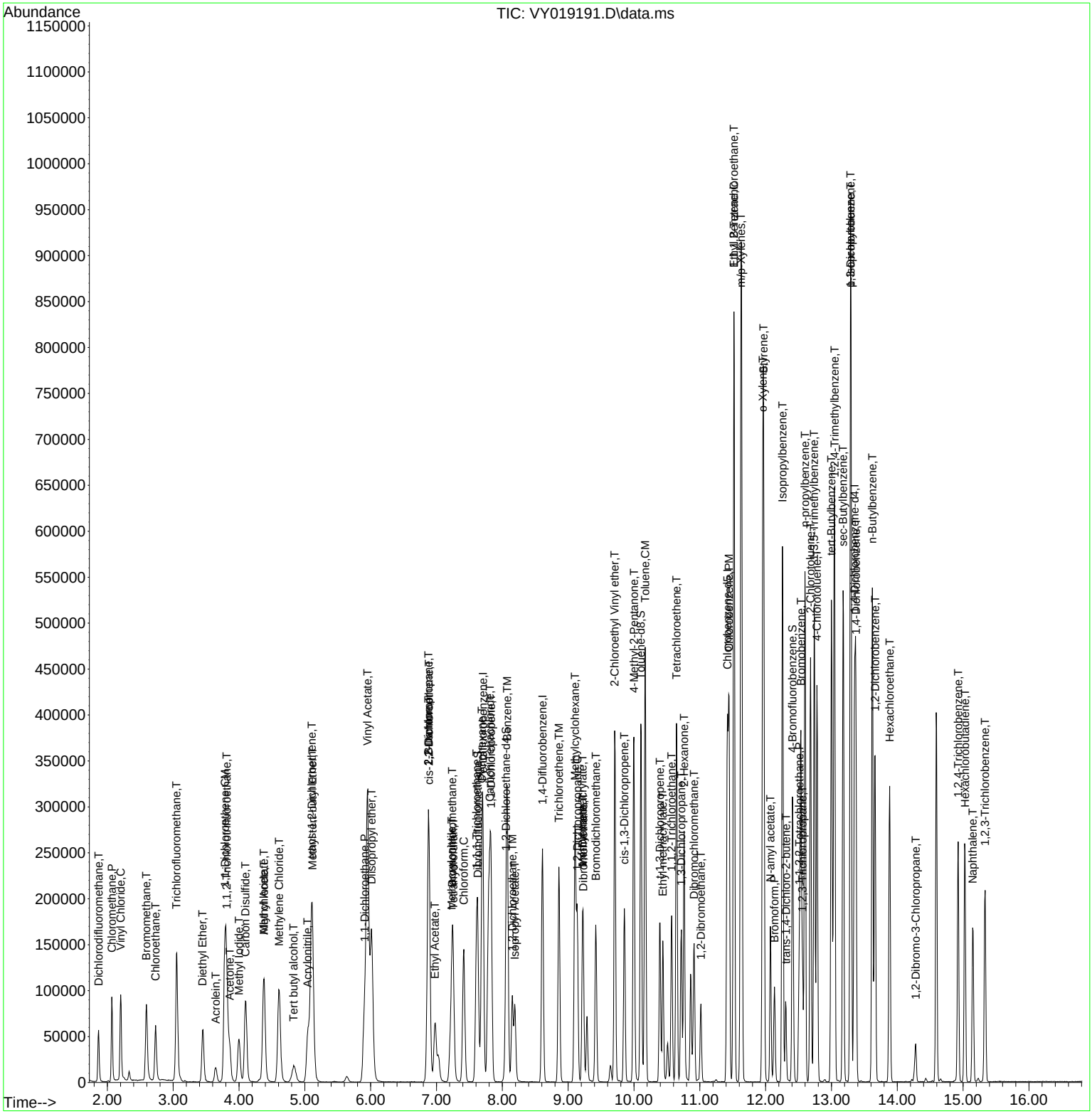
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019191.D
Acq On : 22 Aug 2024 01:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 32 Sample Multiplier: 1

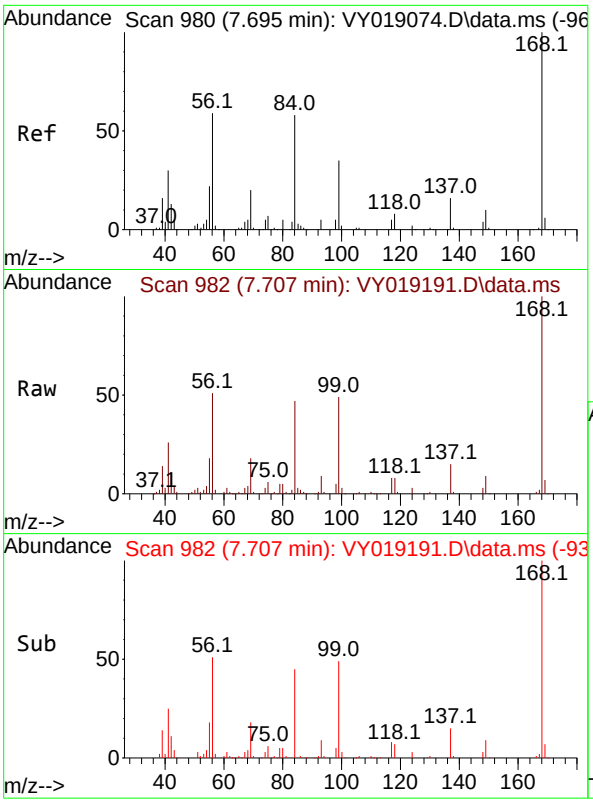
Quant Time: Aug 22 03:46:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

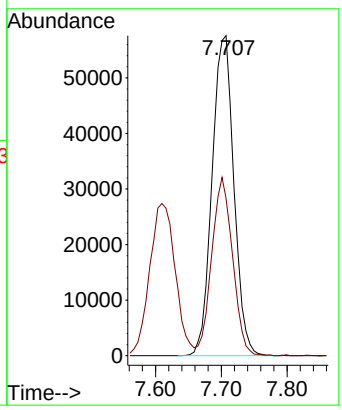




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:168 Resp: 13289

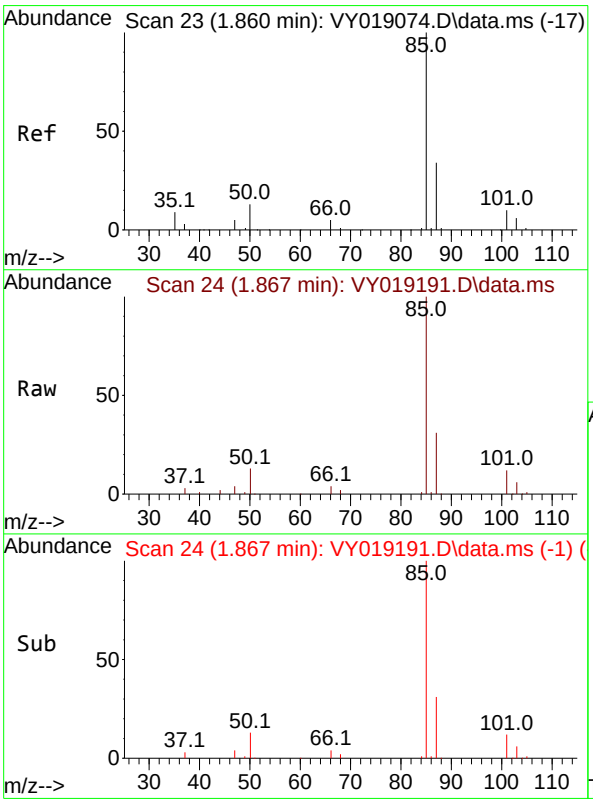
Ion	Ratio	Lower	Upper
168	100		
99	49.2	39.1	58.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

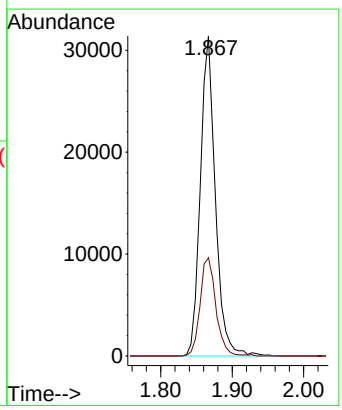
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

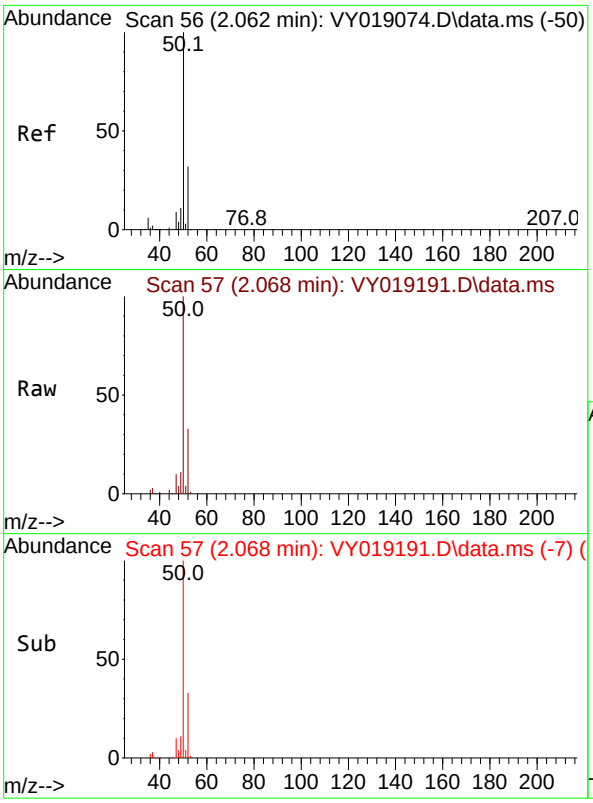


#2
Dichlorodifluoromethane
Concen: 47.057 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 85 Resp: 45882

Ion	Ratio	Lower	Upper
85	100		
87	30.7	16.0	48.0

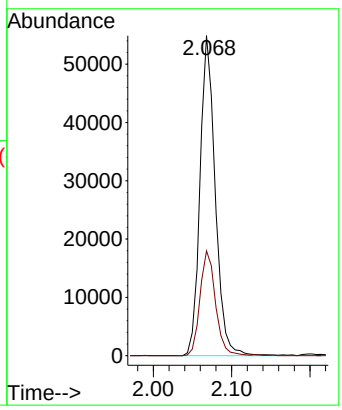




#3
Chloromethane
Concen: 42.162 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 50 Resp: 7409

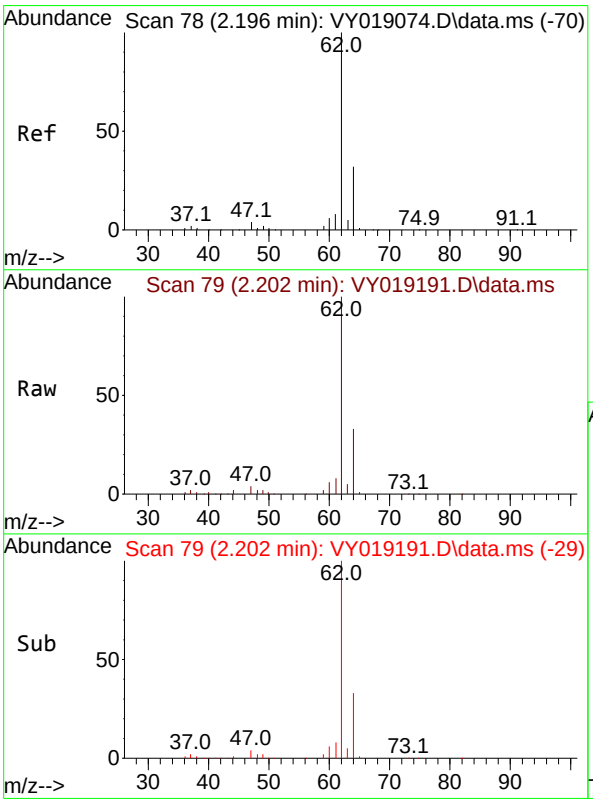
Ion	Ratio	Lower	Upper
50	100		
52	32.8	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

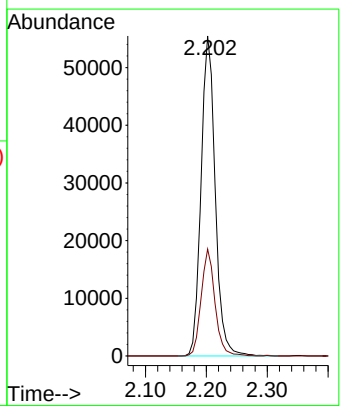
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

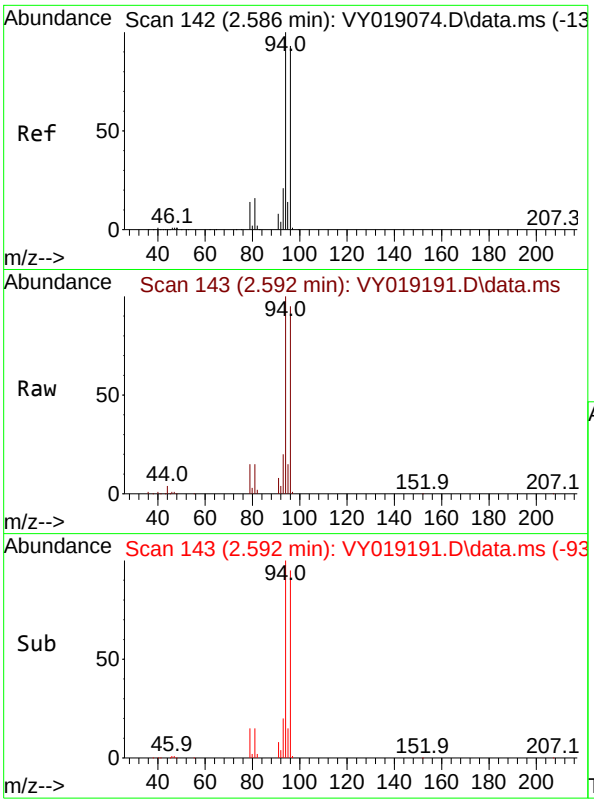


#4
Vinyl Chloride
Concen: 41.283 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 62 Resp: 89620

Ion	Ratio	Lower	Upper
62	100		
64	33.4	26.1	39.1





#5
Bromomethane
Concen: 46.175 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

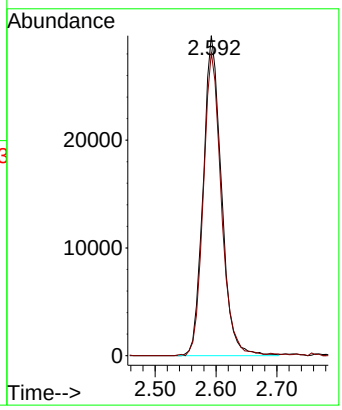
Tgt Ion: 94 Resp: 6180

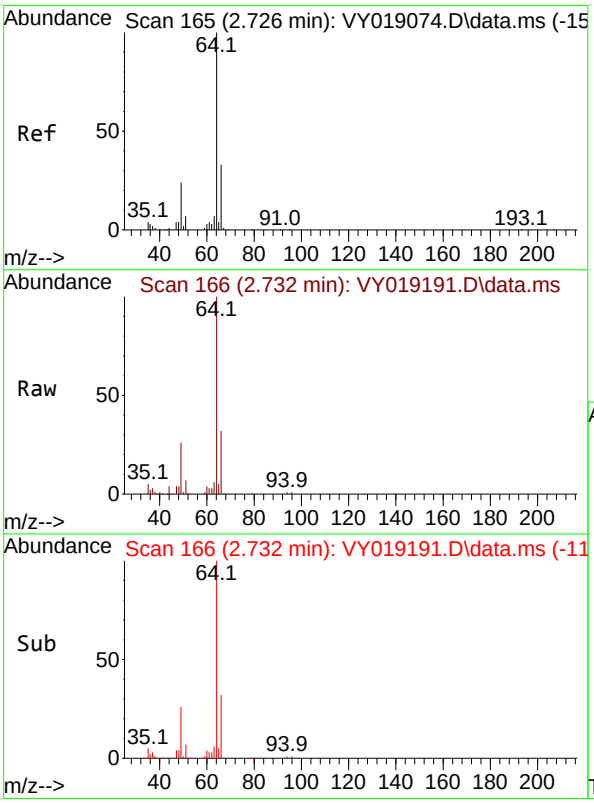
Ion	Ratio	Lower	Upper
94	100		
96	94.5	74.1	111.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

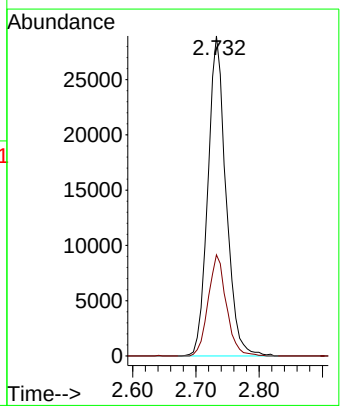


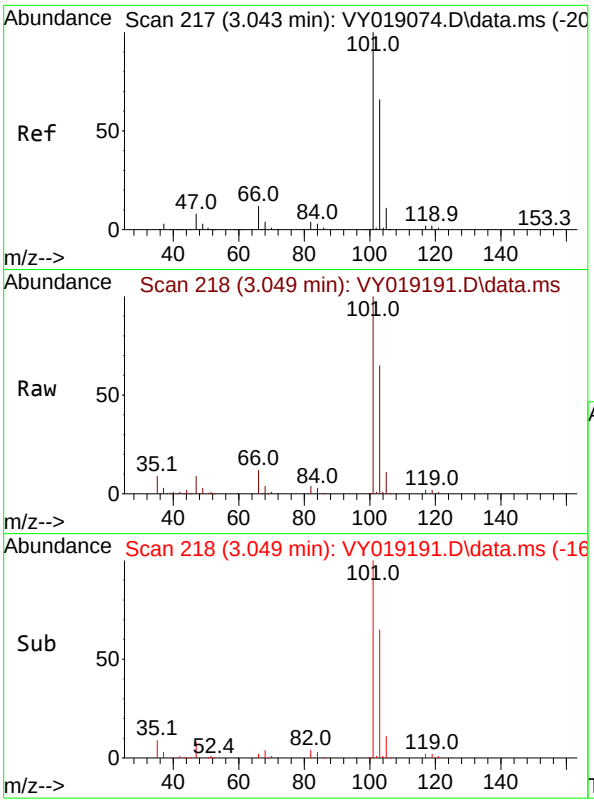


#6
Chloroethane
Concen: 40.920 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 64 Resp: 57530

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.1	39.1





#7
Trichlorofluoromethane
Concen: 41.011 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

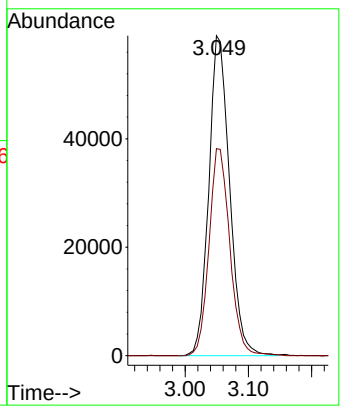
Tgt Ion:101 Resp: 13460

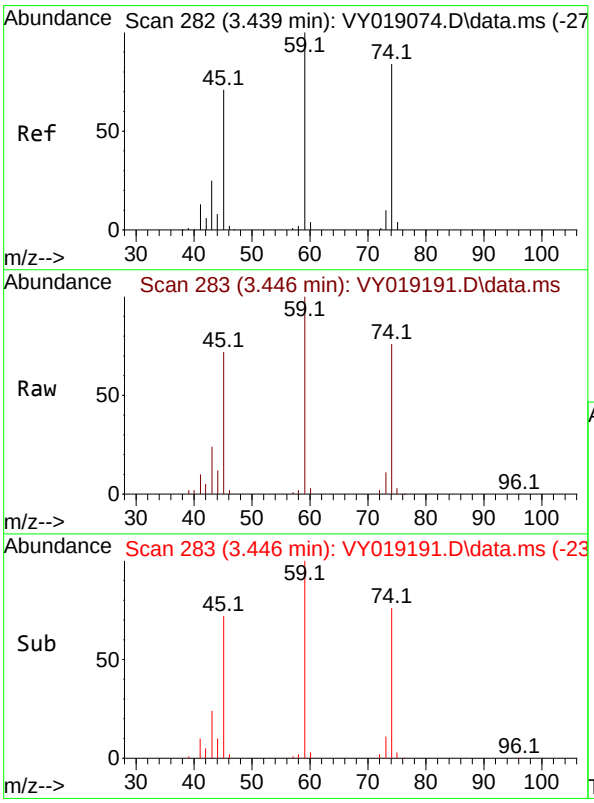
Ion	Ratio	Lower	Upper
101	100		
103	64.7	49.3	73.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

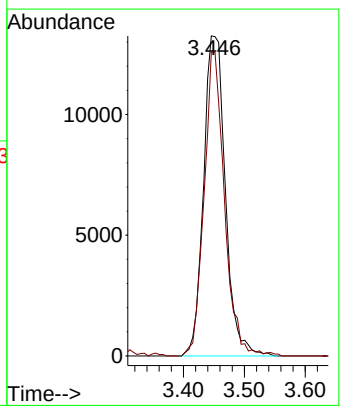


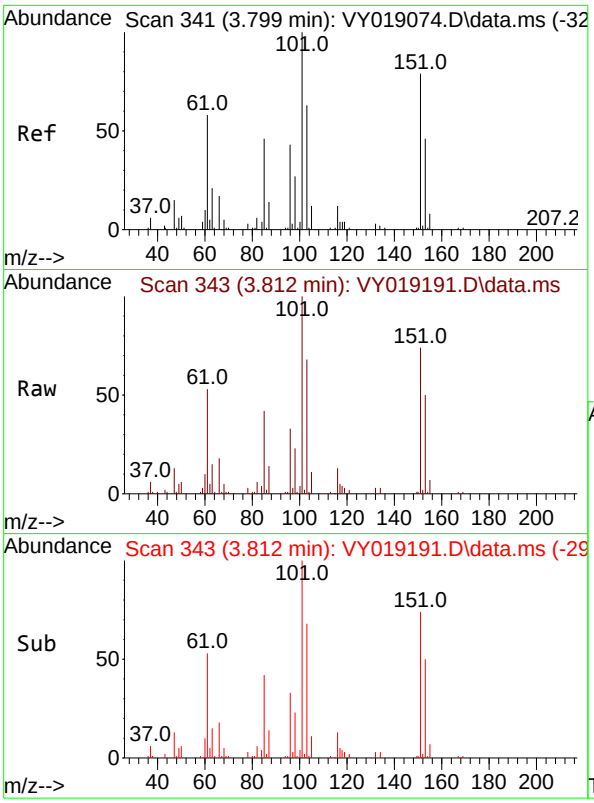


#8
Diethyl Ether
Concen: 46.525 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 74 Resp: 32960

Ion	Ratio	Lower	Upper
74	100		
45	89.1	41.3	124.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.011 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

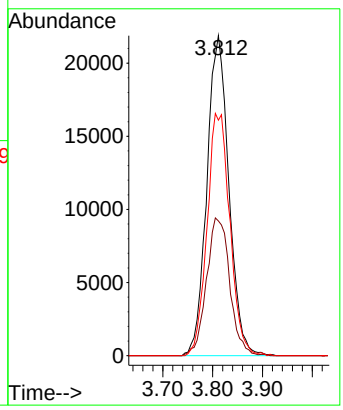
Tgt Ion:101 Resp: 6713

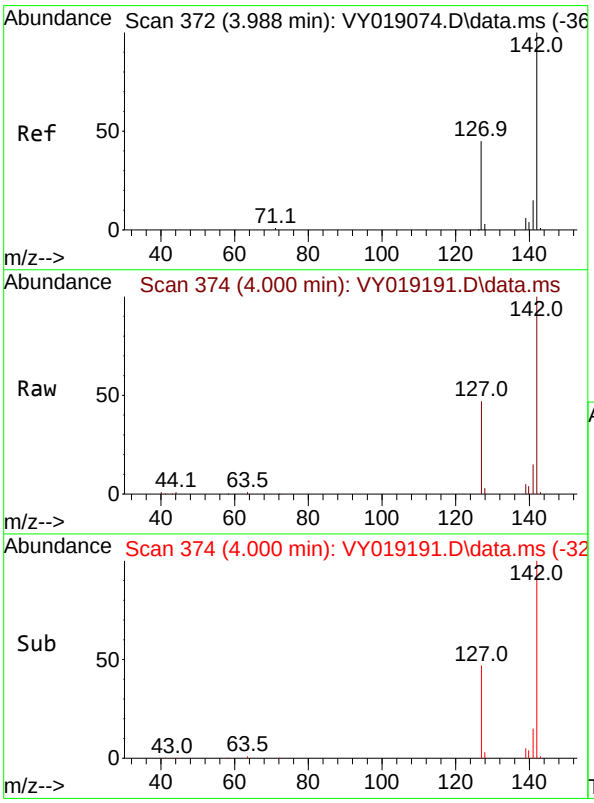
Ion	Ratio	Lower	Upper
101	100		
85	45.4	34.5	51.7
151	78.6	61.7	92.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

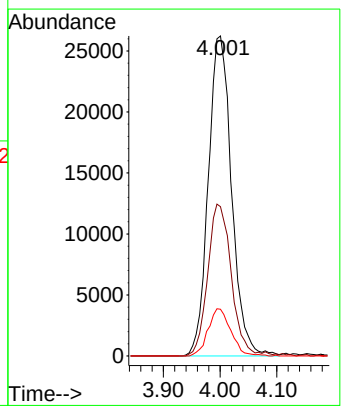


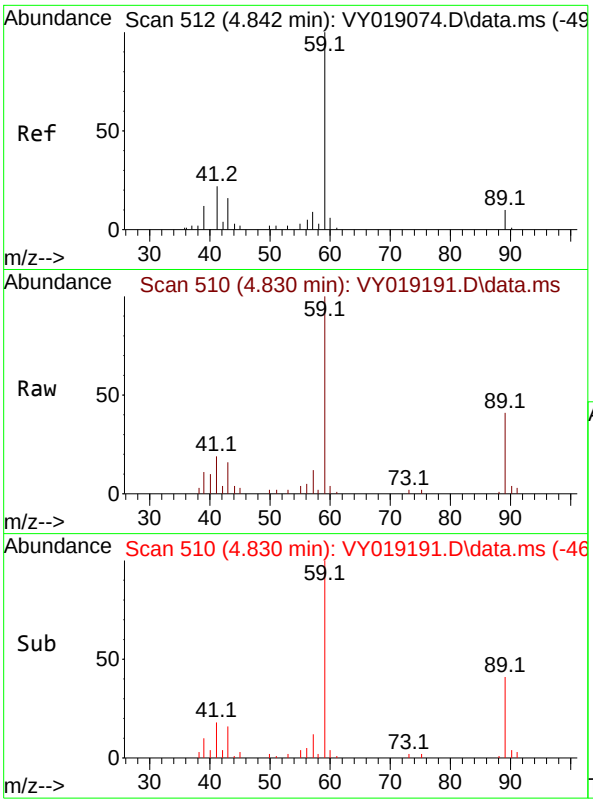


#10
Methyl Iodide
Concen: 52.449 ug/l
RT: 4.000 min Scan# 374
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:142 Resp: 75012

Ion	Ratio	Lower	Upper
142	100		
127	48.0	32.8	49.2
141	14.4	11.4	17.2

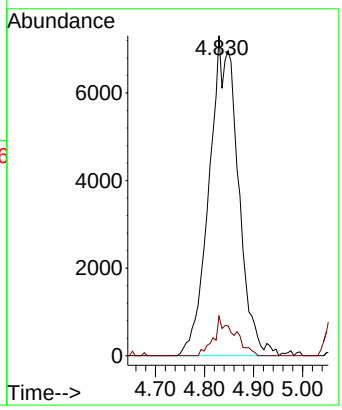




#11
Tert butyl alcohol
Concen: 266.517 ug/l m
RT: 4.830 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 59 Resp: 2994

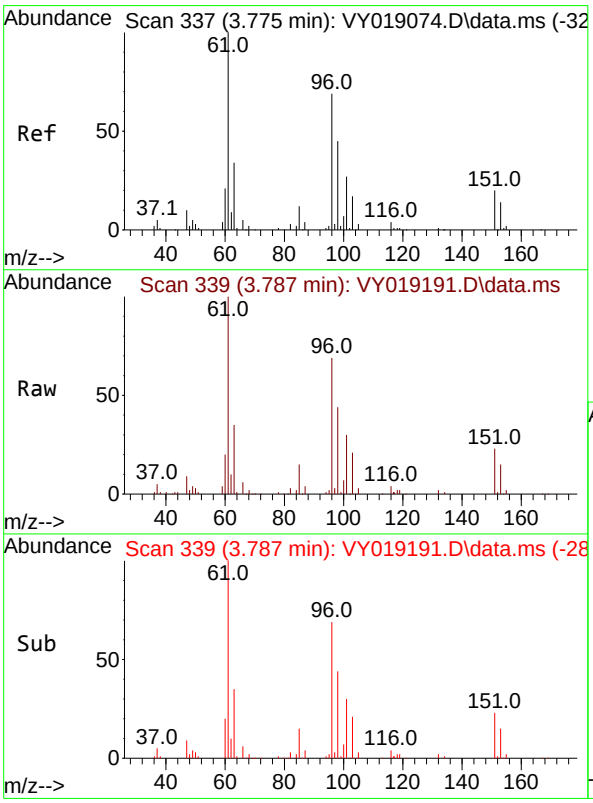
Ion	Ratio	Lower	Upper
59	100		
57	8.7	3.0	4.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

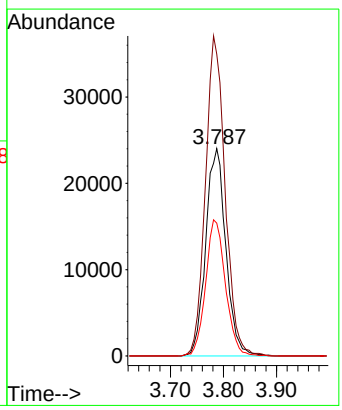
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

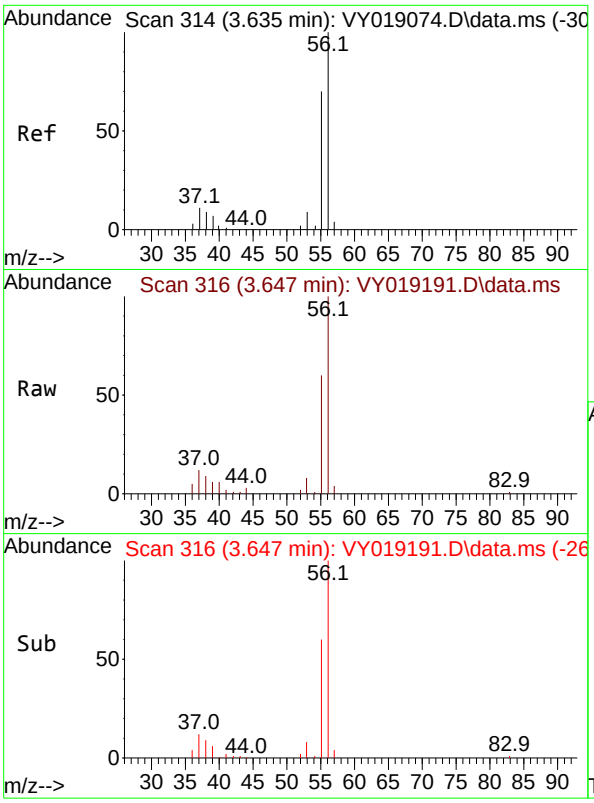


#12
1,1-Dichloroethene
Concen: 47.789 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 96 Resp: 63351

Ion	Ratio	Lower	Upper
96	100		
61	145.5	114.6	171.8
98	64.0	50.8	76.2

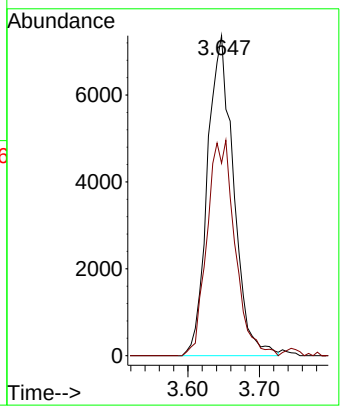




#13
Acrolein
Concen: 180.429 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 56 Resp: 1860

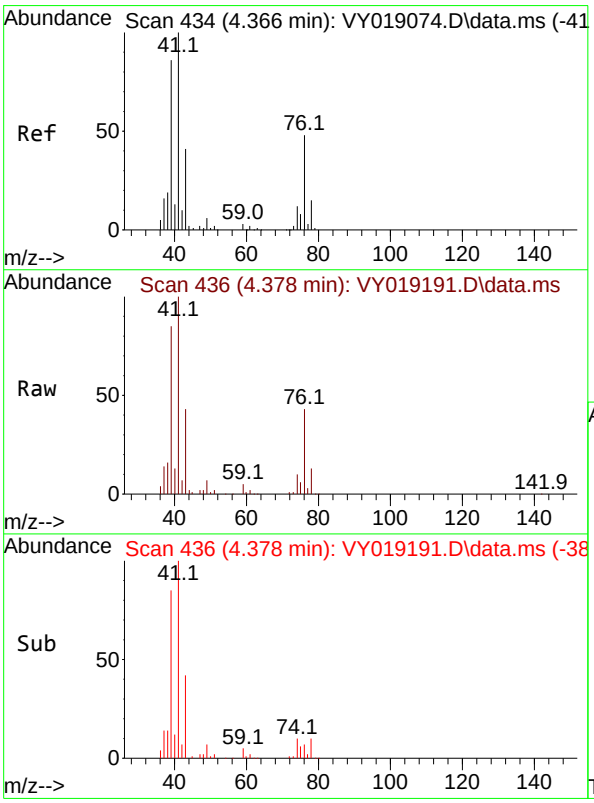
Ion	Ratio	Lower	Upper
56	100		
55	72.3	55.7	83.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

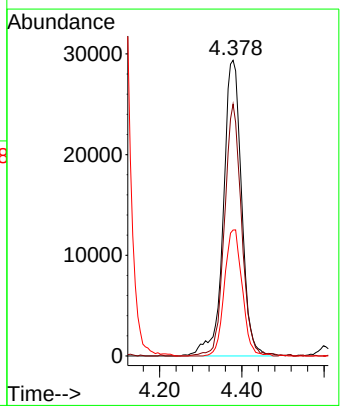
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

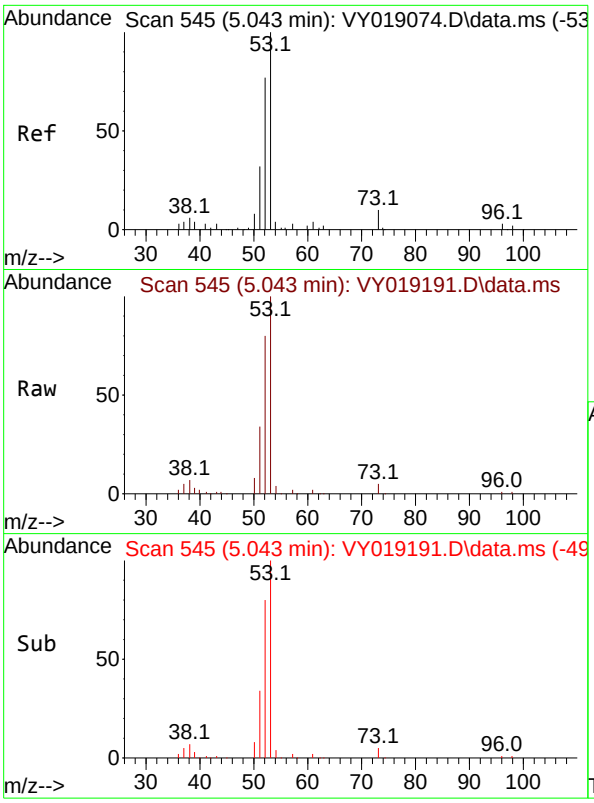


#14
Allyl chloride
Concen: 51.486 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 41 Resp: 90744

Ion	Ratio	Lower	Upper
41	100		
39	79.6	58.3	87.5
76	41.4	39.0	58.6





#15
Acrylonitrile
Concen: 248.340 ug/l
RT: 5.043 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

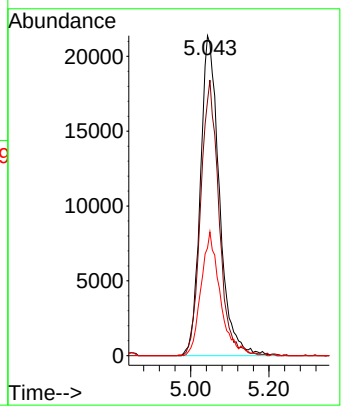
Tgt Ion: 53 Resp: 7198

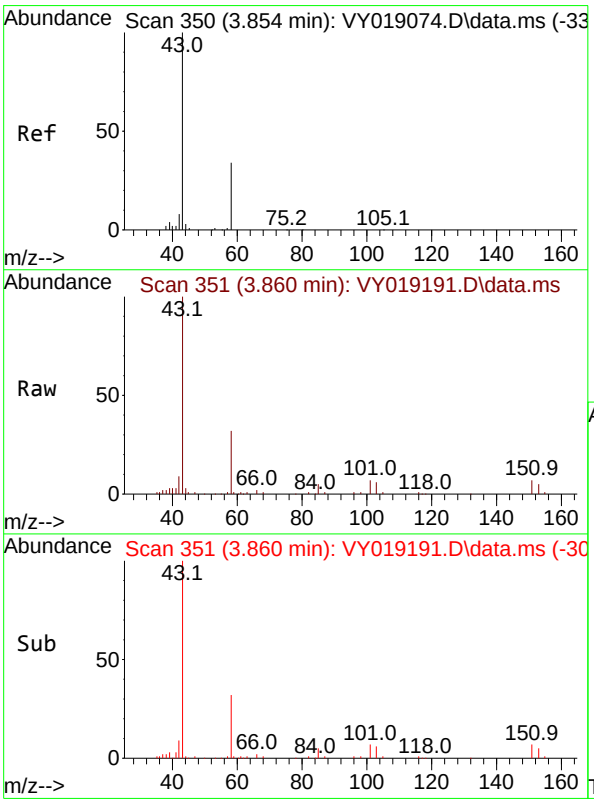
Ion	Ratio	Lower	Upper
53	100		
52	82.7	64.7	97.1
51	39.0	28.4	42.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

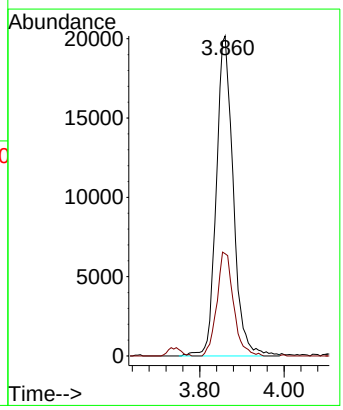


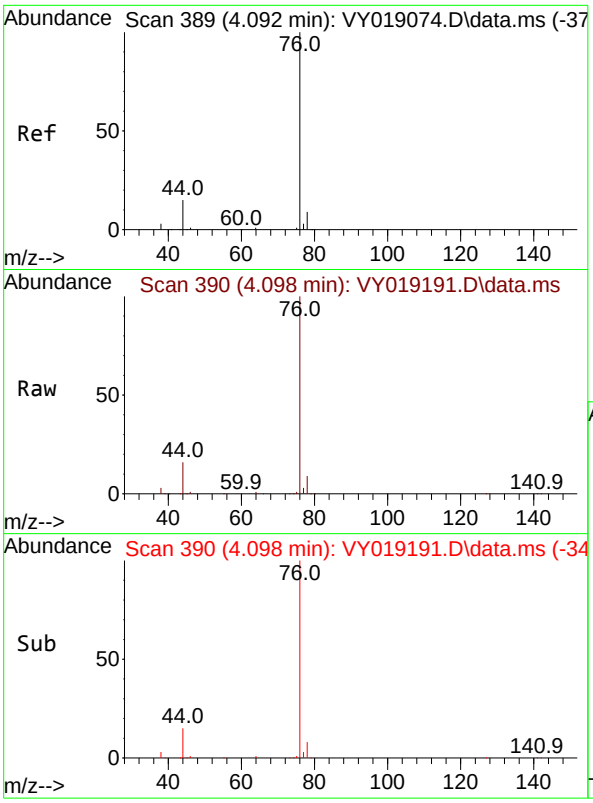


#16
Acetone
Concen: 226.976 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 43 Resp: 56076

Ion	Ratio	Lower	Upper
43	100		
58	32.0	31.7	47.5





#17
Carbon Disulfide
Concen: 47.823 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

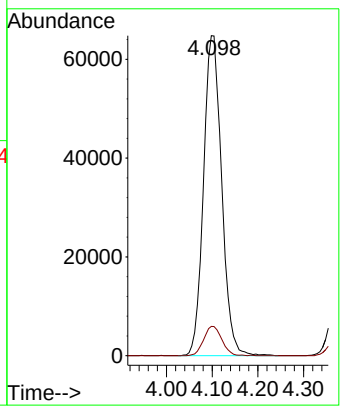
Tgt Ion: 76 Resp: 17881

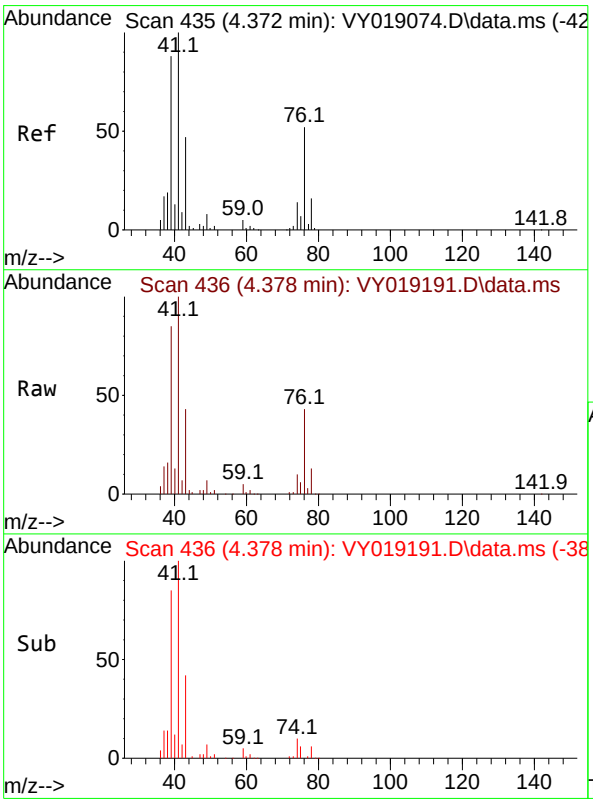
Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.8	10.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

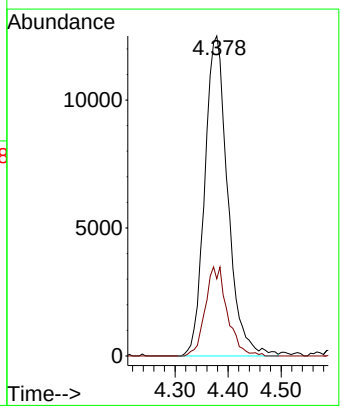


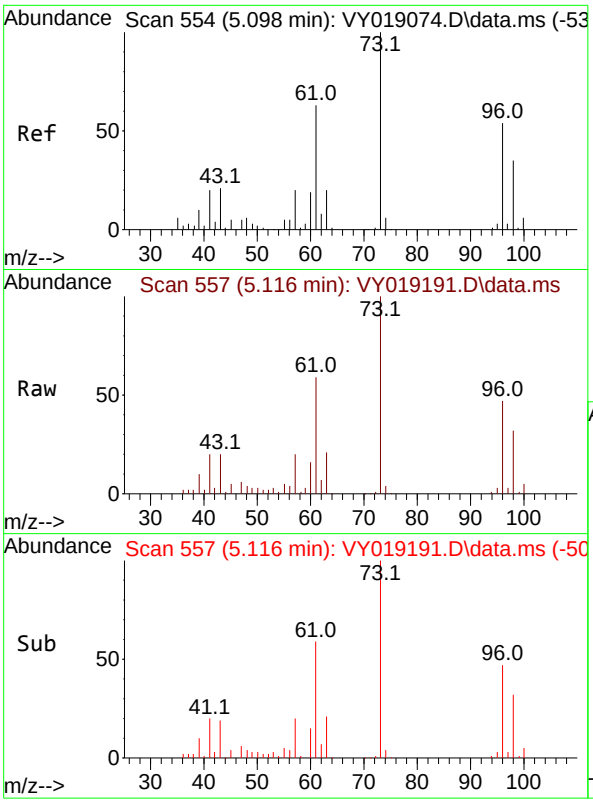


#18
Methyl Acetate
Concen: 49.718 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 43 Resp: 37698

Ion	Ratio	Lower	Upper
43	100		
74	26.7	23.3	34.9





#19
Methyl tert-butyl Ether
Concen: 50.093 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.018 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

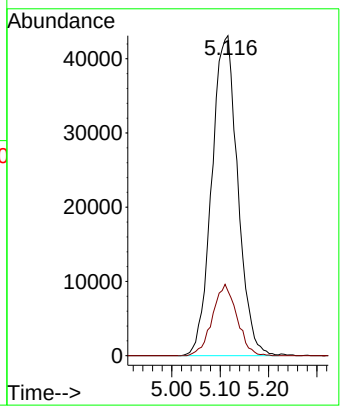
Tgt Ion: 73 Resp: 16099

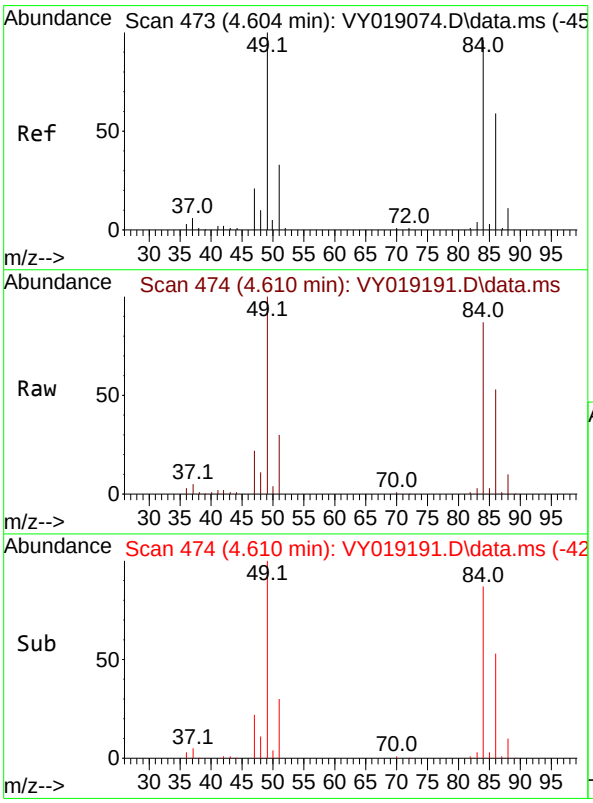
Ion	Ratio	Lower	Upper
73	100		
57	20.2	17.3	25.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

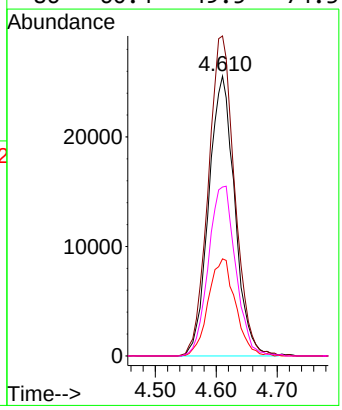


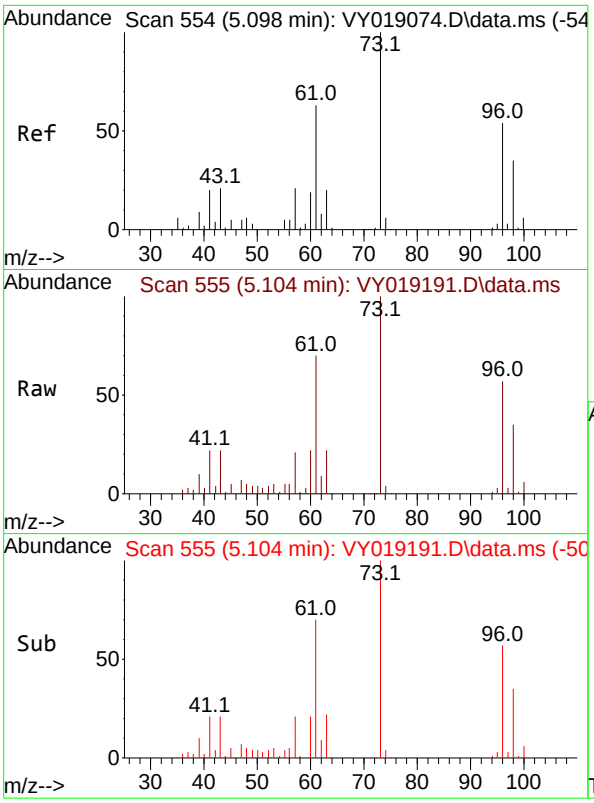


#20
Methylene Chloride
Concen: 49.182 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 84 Resp: 75718

Ion	Ratio	Lower	Upper
84	100		
49	114.4	84.4	126.6
51	34.7	26.0	39.0
86	60.4	49.5	74.3





#21
trans-1,2-Dichloroethene
Concen: 48.952 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

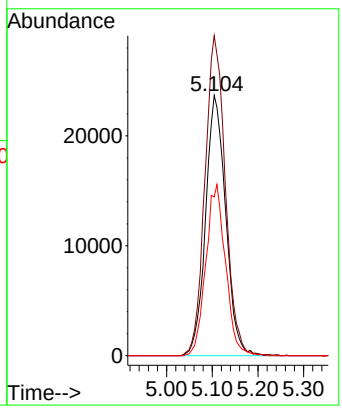
Tgt Ion: 96 Resp: 7249

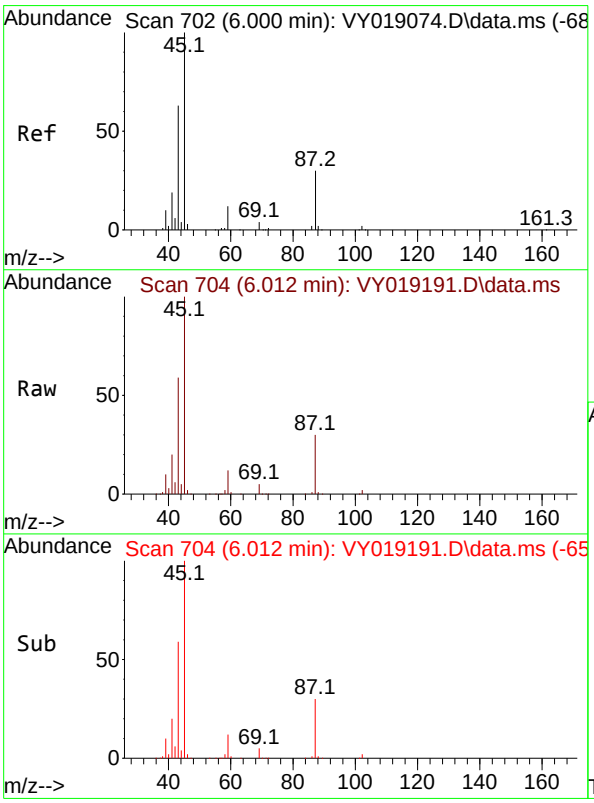
Ion	Ratio	Lower	Upper
96	100		
61	123.0	97.5	146.3
98	61.0	50.5	75.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

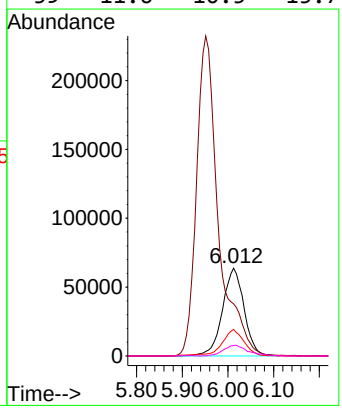


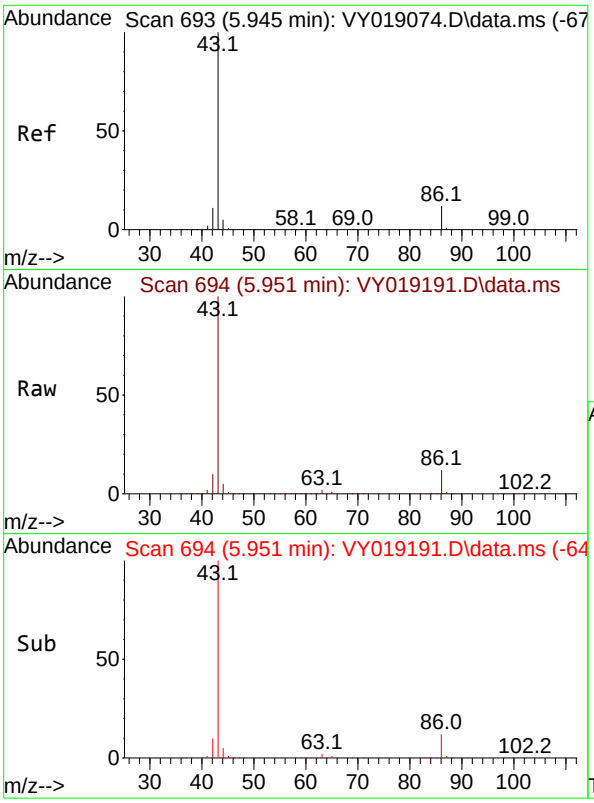


#22
Diisopropyl ether
Concen: 51.898 ug/l
RT: 6.012 min Scan# 704
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 45 Resp: 209397

Ion	Ratio	Lower	Upper
45	100		
43	58.6	42.2	63.2
87	30.2	25.0	37.6
59	11.6	10.5	15.7





#23
Vinyl Acetate
Concen: 242.055 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

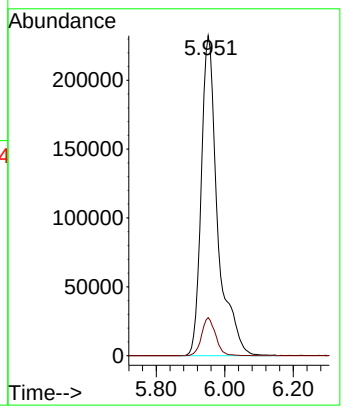
Tgt Ion: 43 Resp: 77322

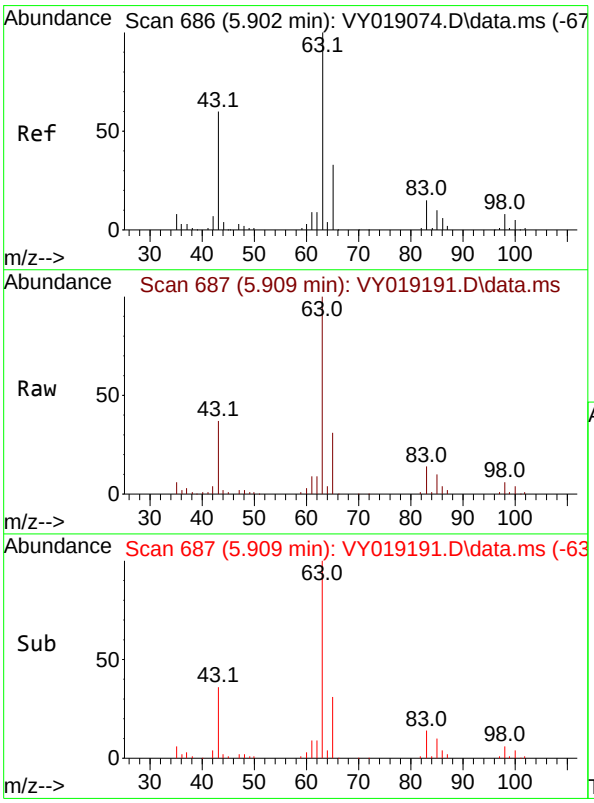
Ion	Ratio	Lower	Upper
43	100		
86	11.9	10.6	16.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

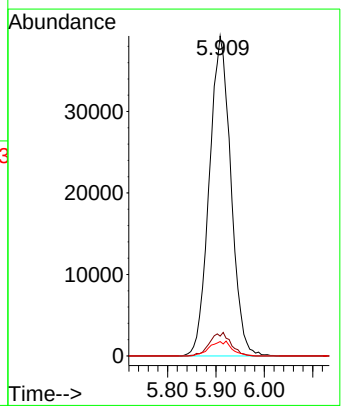


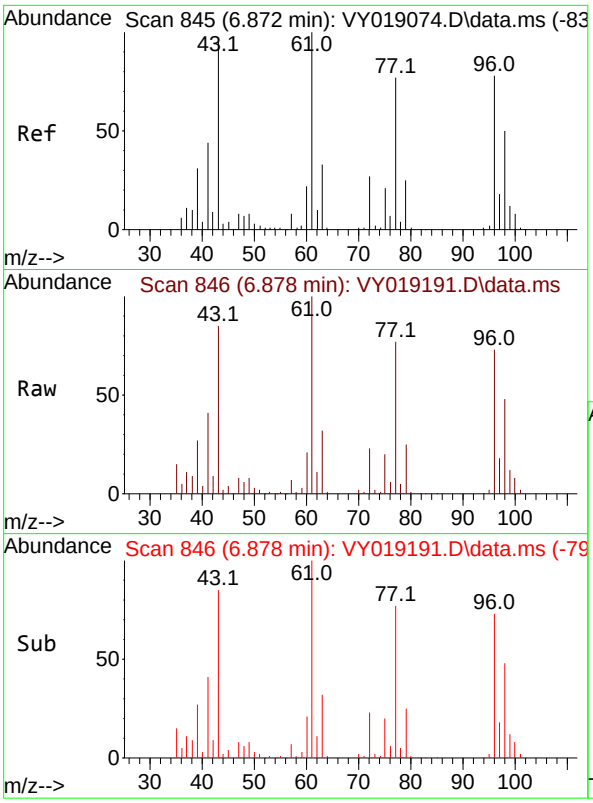


#24
1,1-Dichloroethane
Concen: 49.383 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 63 Resp: 121850

Ion	Ratio	Lower	Upper
63	100		
98	6.2	4.0	12.2
100	4.5	2.6	8.0





#25
2-Butanone
Concen: 232.016 ug/l
RT: 6.878 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

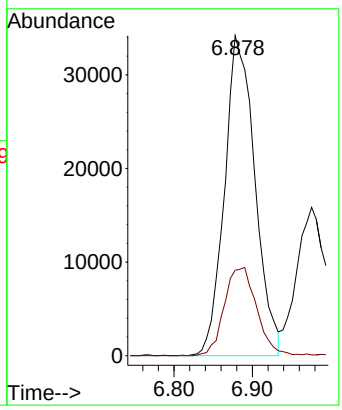
Tgt Ion: 43 Resp: 9231

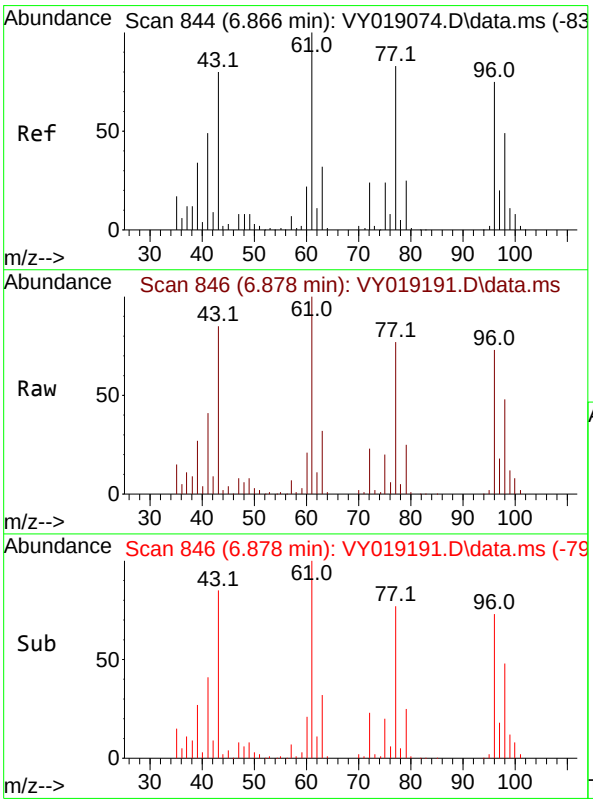
Ion	Ratio	Lower	Upper
43	100		
72	26.7	27.3	40.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

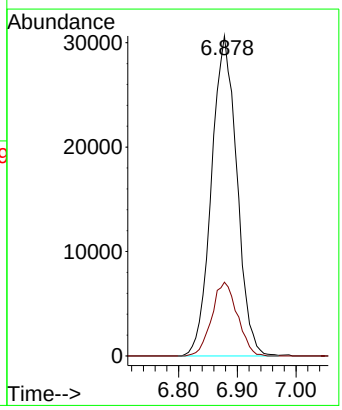


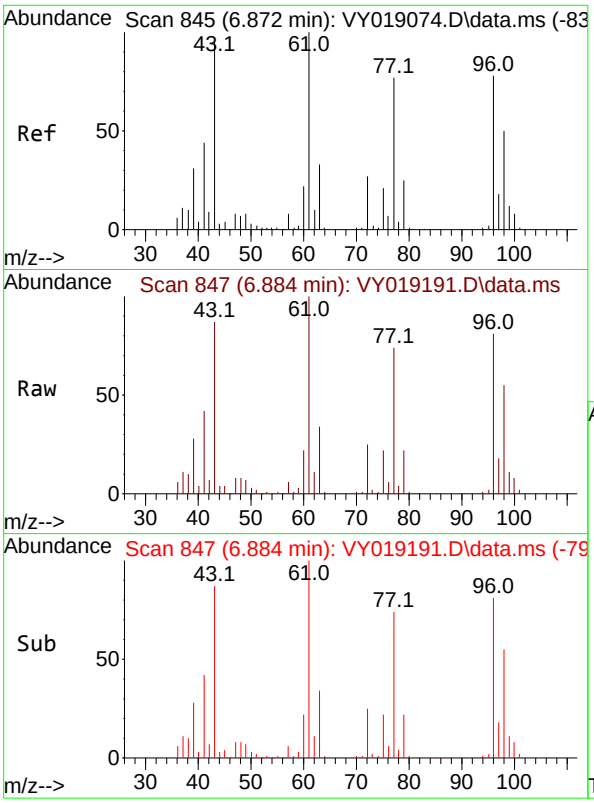


#26
2,2-Dichloropropane
Concen: 45.986 ug/l
RT: 6.878 min Scan# 846
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 77 Resp: 91885

Ion	Ratio	Lower	Upper
77	100		
97	23.3	12.0	36.1

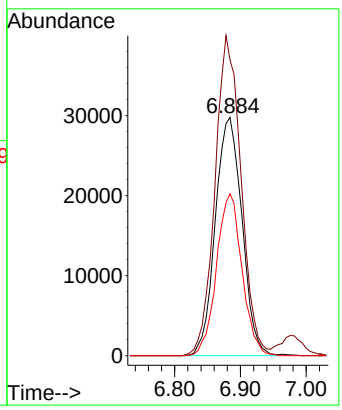




#27
cis-1,2-Dichloroethene
Concen: 48.298 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 96 Resp: 8417

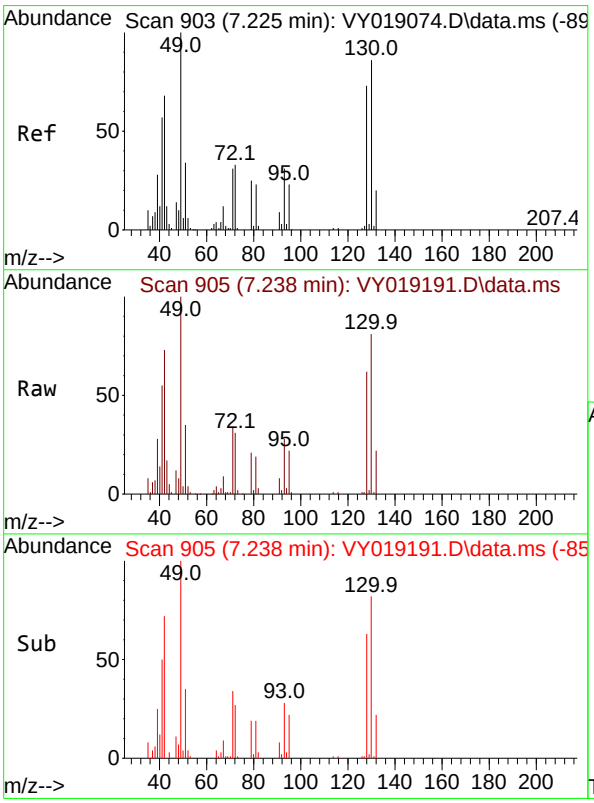
Ion	Ratio	Lower	Upper
96	100		
61	131.1	0.0	256.2
98	64.9	0.0	130.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

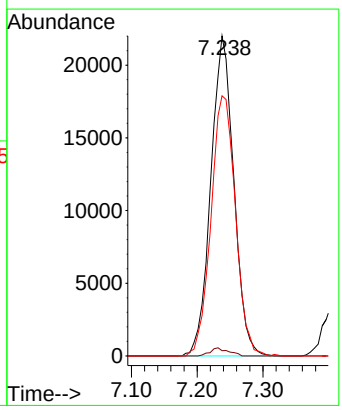
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

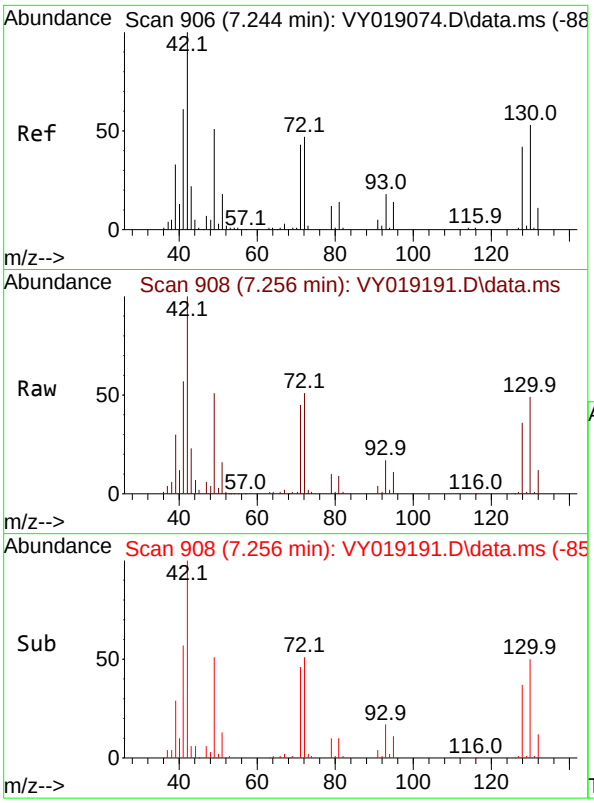


#28
Bromochloromethane
Concen: 51.683 ug/l
RT: 7.238 min Scan# 905
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 49 Resp: 53495

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.6
130	86.4	72.7	109.1

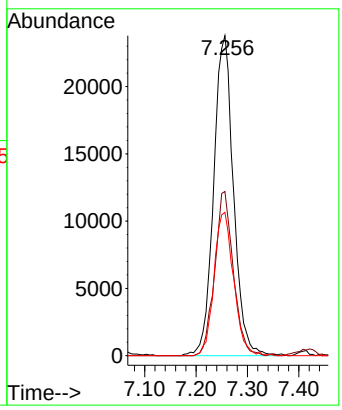




#29
Tetrahydrofuran
Concen: 249.154 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 42 Resp: 6372

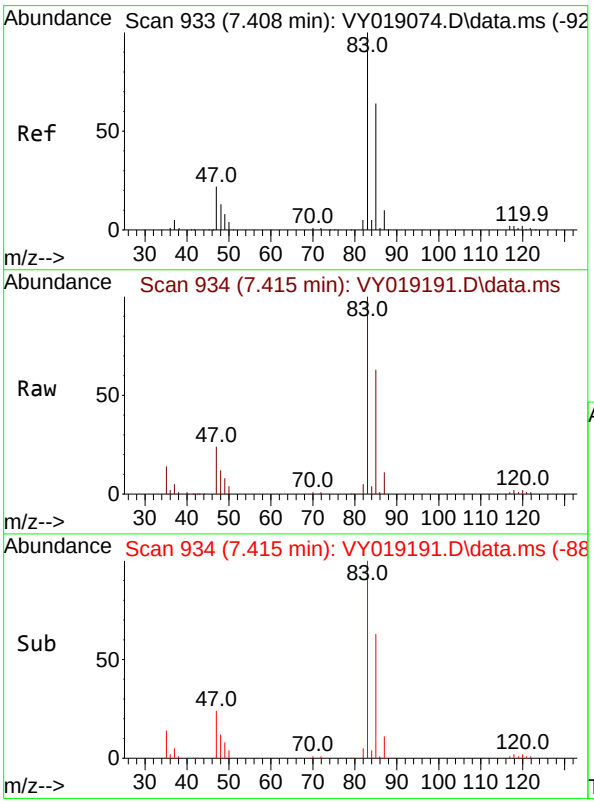
Ion	Ratio	Lower	Upper
42	100		
72	48.1	43.0	64.4
71	44.4	40.8	61.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

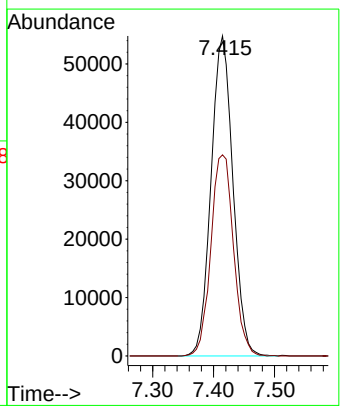
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

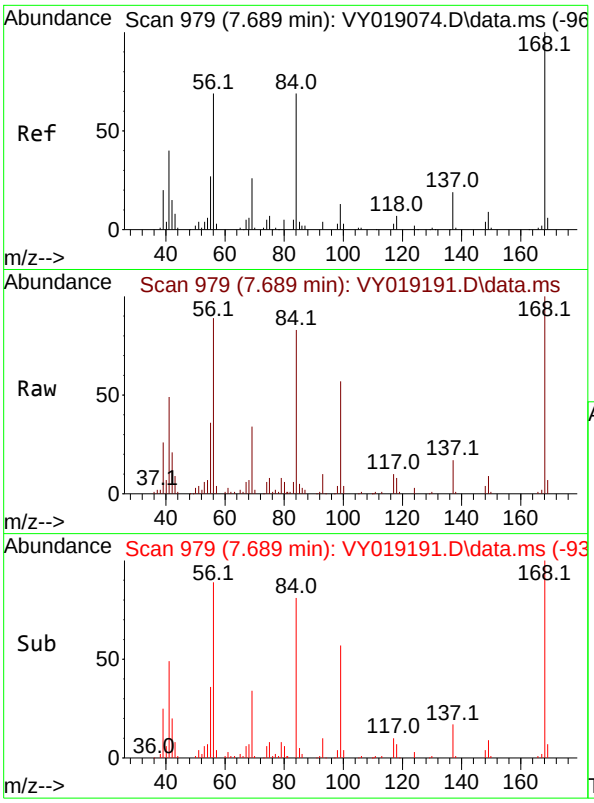


#30
Chloroform
Concen: 49.677 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 83 Resp: 136587

Ion	Ratio	Lower	Upper
83	100		
85	62.8	52.2	78.4

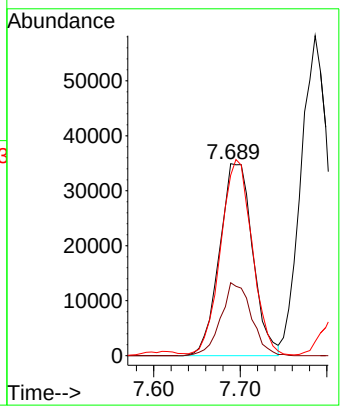




#31
Cyclohexane
Concen: 48.570 ug/l
RT: 7.689 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 56 Resp: 9278

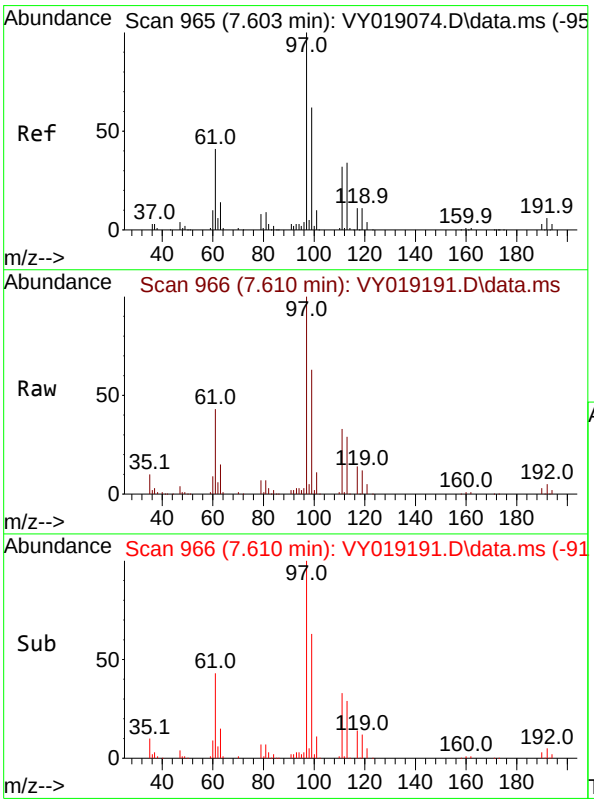
Ion	Ratio	Lower	Upper
56	100		
69	38.0	28.7	43.1
84	92.7	77.7	116.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

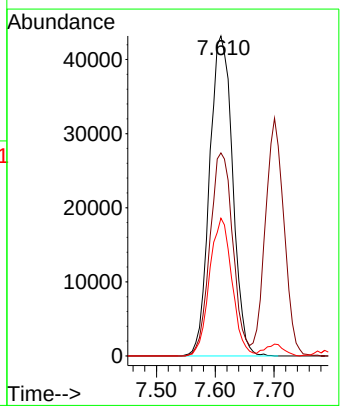
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

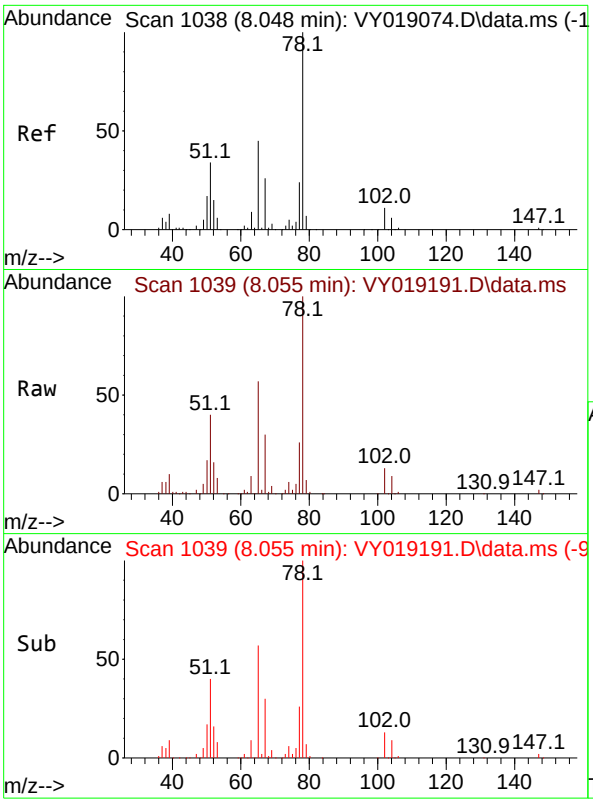


#32
1,1,1-Trichloroethane
Concen: 48.684 ug/l
RT: 7.610 min Scan# 966
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 97 Resp: 117635

Ion	Ratio	Lower	Upper
97	100		
99	63.2	50.3	75.5
61	42.0	32.6	48.8

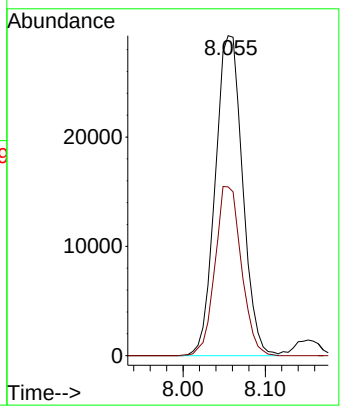




#33
1,2-Dichloroethane-d4
Concen: 50.799 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 65 Resp: 6767

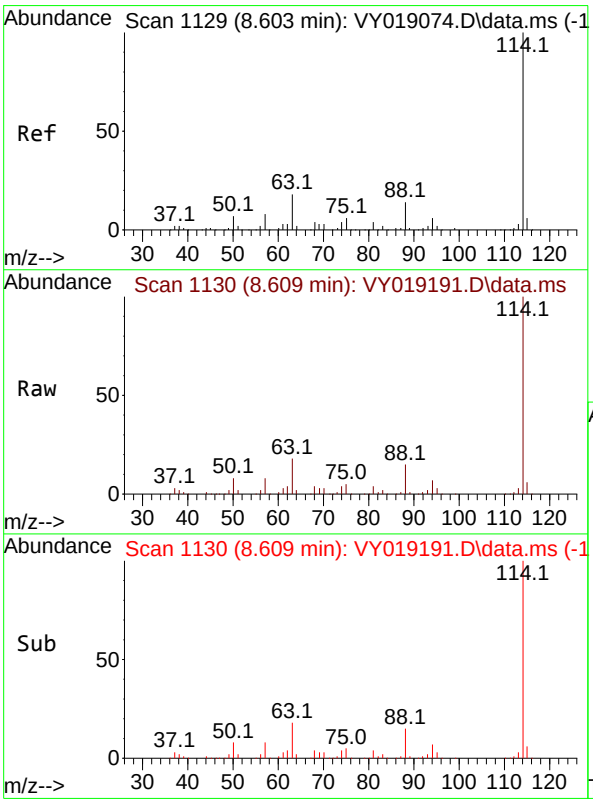
Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	109.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

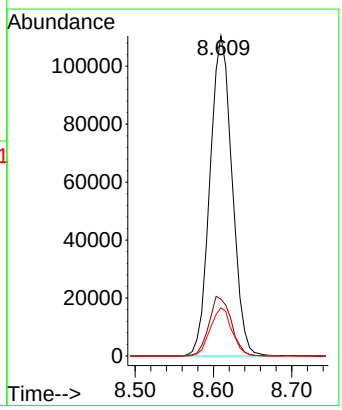
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

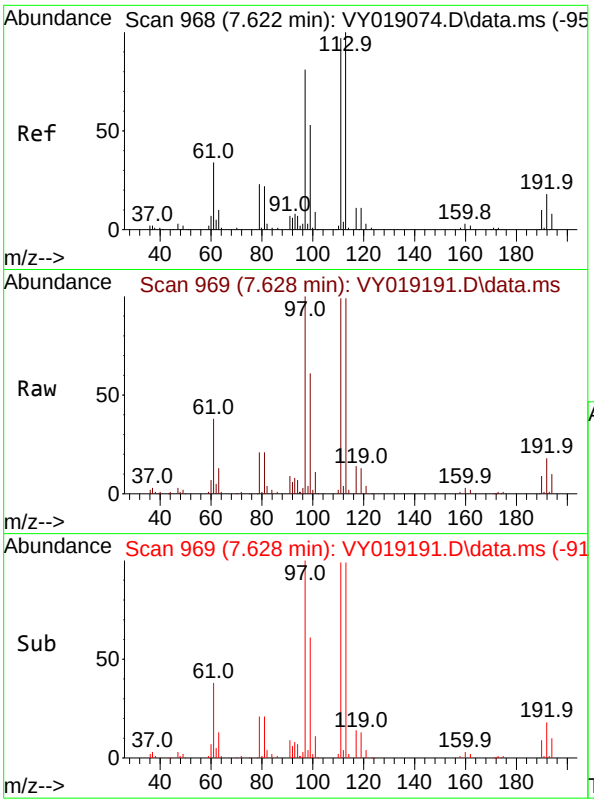


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:114 Resp: 216735

Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	35.0
88	15.1	0.0	27.2

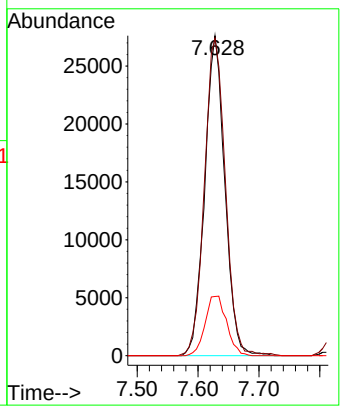




#35
Dibromofluoromethane
Concen: 44.619 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:113 Resp: 6323

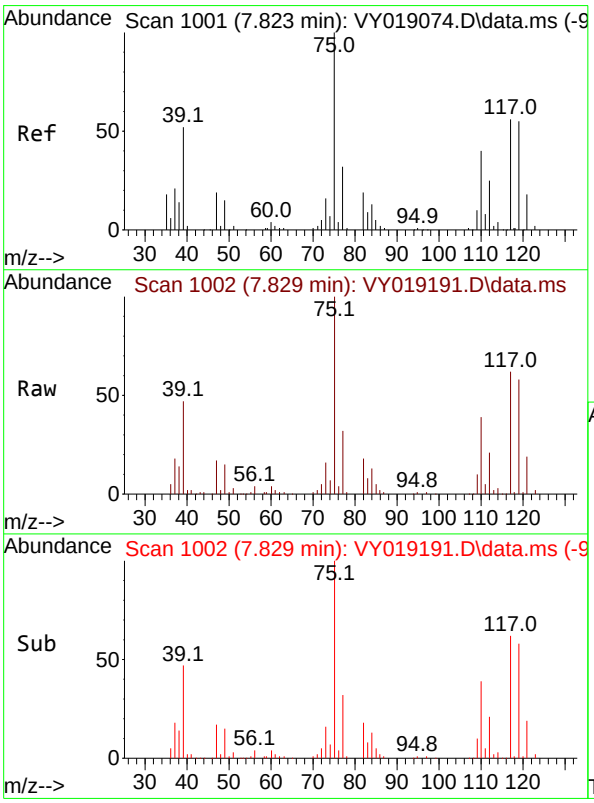
Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.2	123.4
192	19.9	15.9	23.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

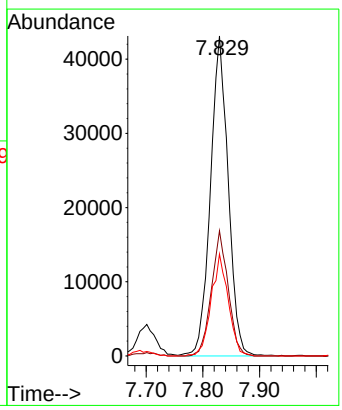
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

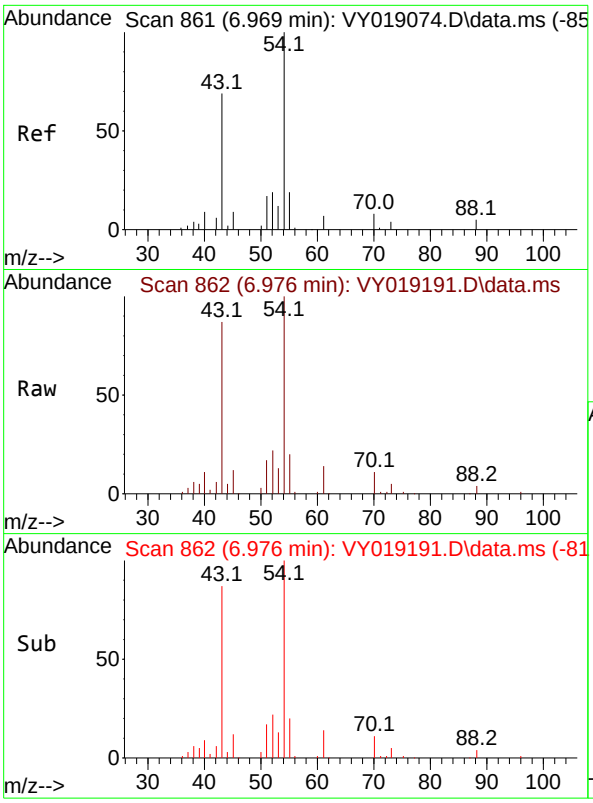


#36
1,1-Dichloropropene
Concen: 48.258 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 75 Resp: 93910

Ion	Ratio	Lower	Upper
75	100		
110	36.9	19.0	57.0
77	30.7	25.3	37.9





#37
Ethyl Acetate
Concen: 50.620 ug/l
RT: 6.976 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

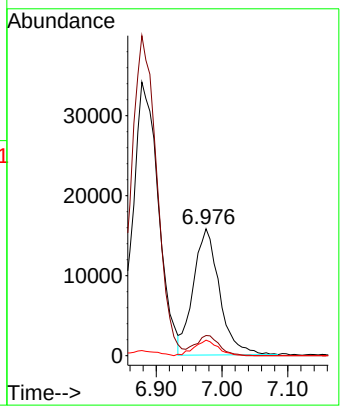
Tgt Ion: 43 Resp: 4364

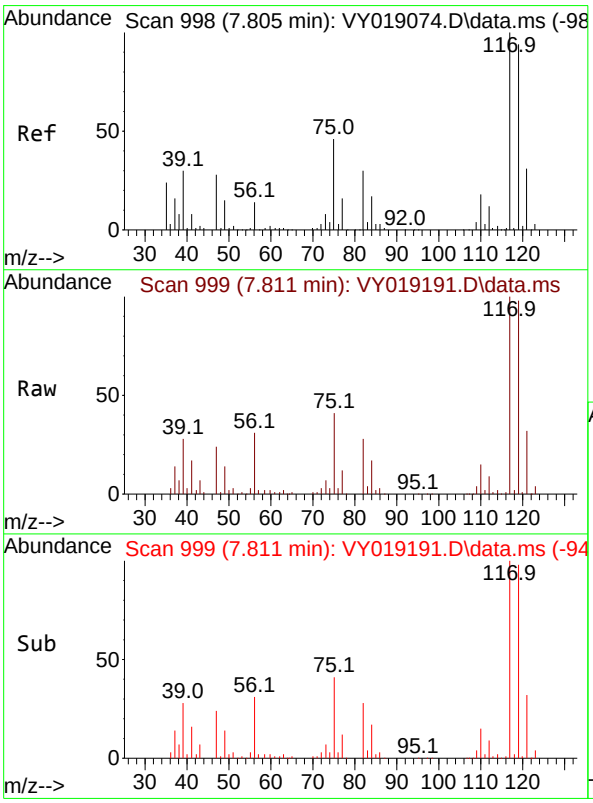
Ion	Ratio	Lower	Upper
43	100		
61	14.4	12.6	19.0
70	11.2	7.8	11.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

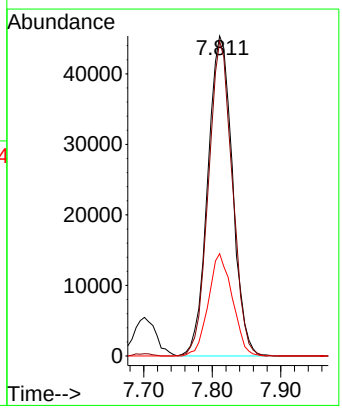


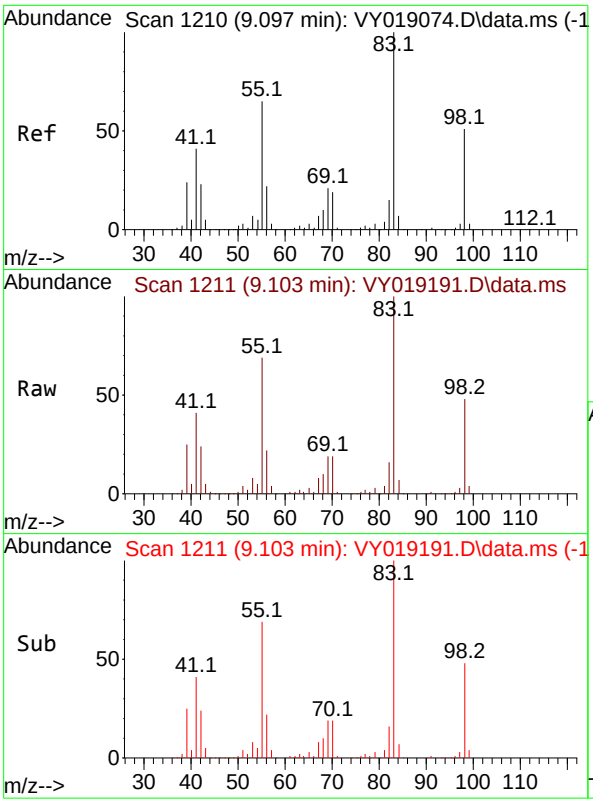


#38
Carbon Tetrachloride
Concen: 50.216 ug/l
RT: 7.811 min Scan# 999
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:117 Resp: 113247

Ion	Ratio	Lower	Upper
117	100		
119	98.4	75.8	113.6
121	32.0	24.0	36.0

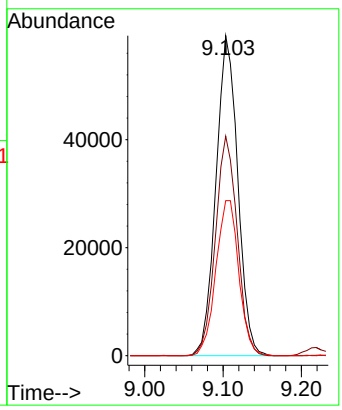




#39
Methylcyclohexane
Concen: 45.958 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 83 Resp: 11476

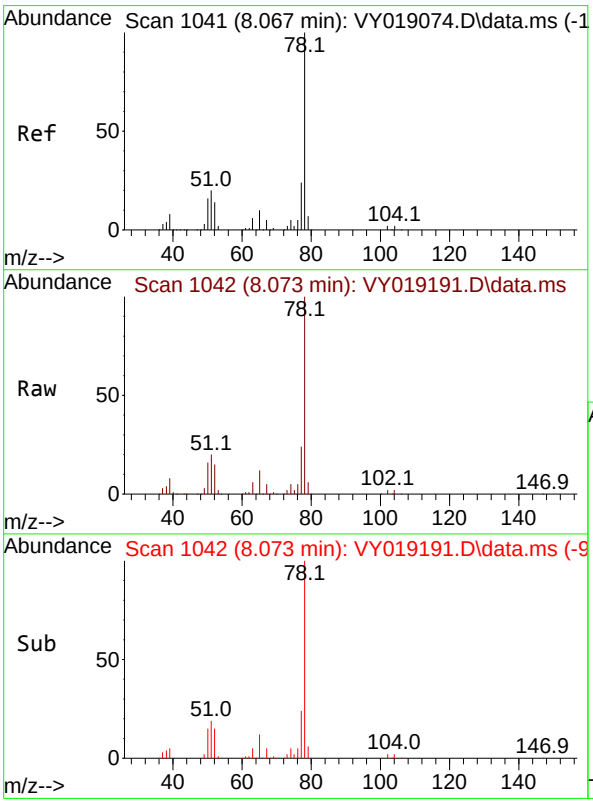
Ion	Ratio	Lower	Upper
83	100		
55	68.6	51.5	77.3
98	48.5	40.5	60.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

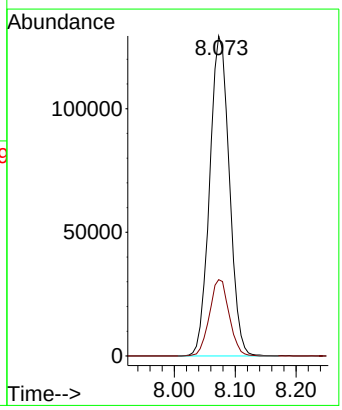
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

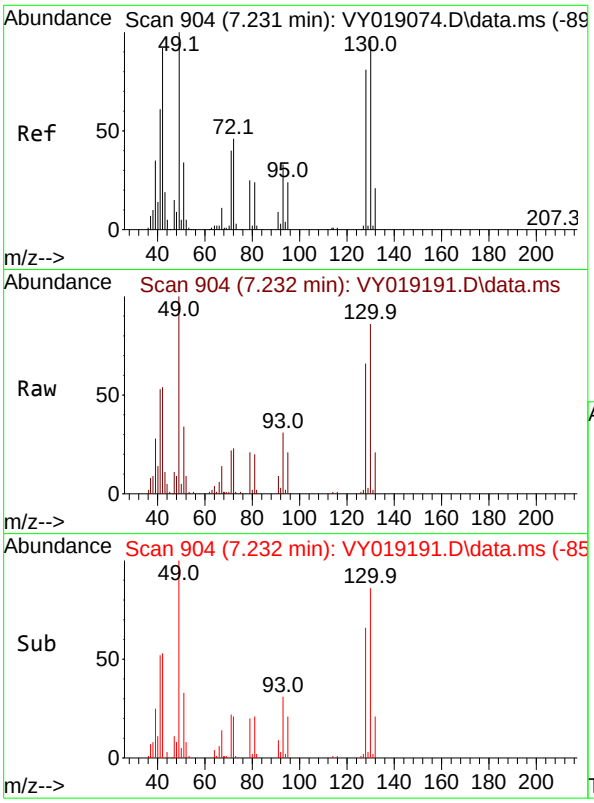


#40
Benzene
Concen: 48.680 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 78 Resp: 290534

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.5	29.3

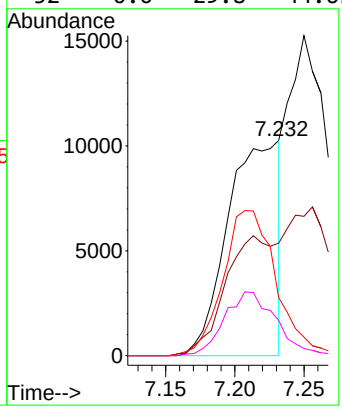




#41
Methacrylonitrile
Concen: 56.836 ug/l m
RT: 7.232 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 41 Resp: 2674

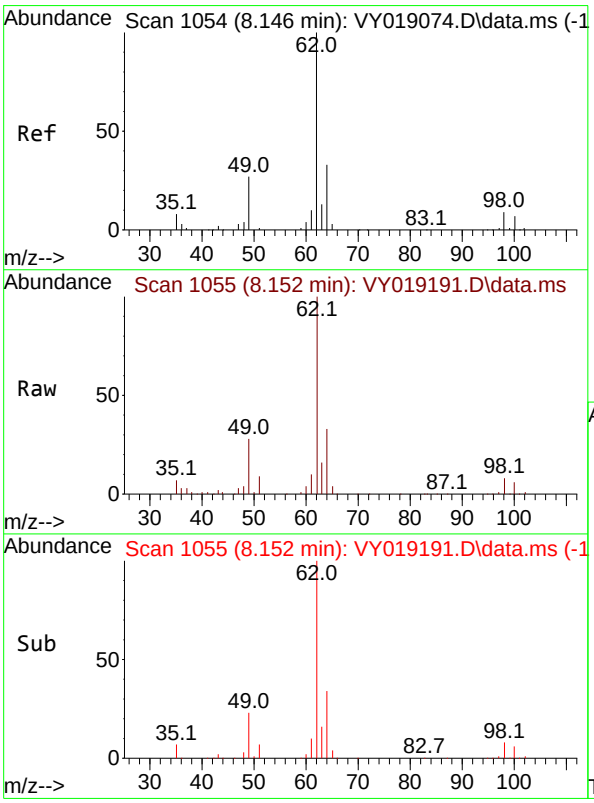
Ion	Ratio	Lower	Upper
41	100		
39	61.6	48.0	72.0
67	0.0	75.1	112.7#
52	0.0	29.8	44.6#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

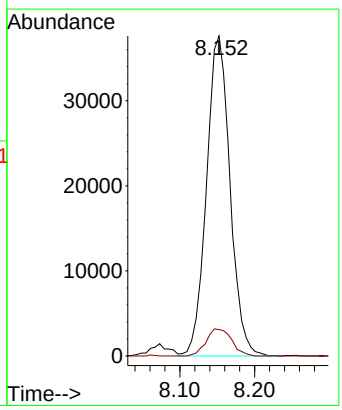
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

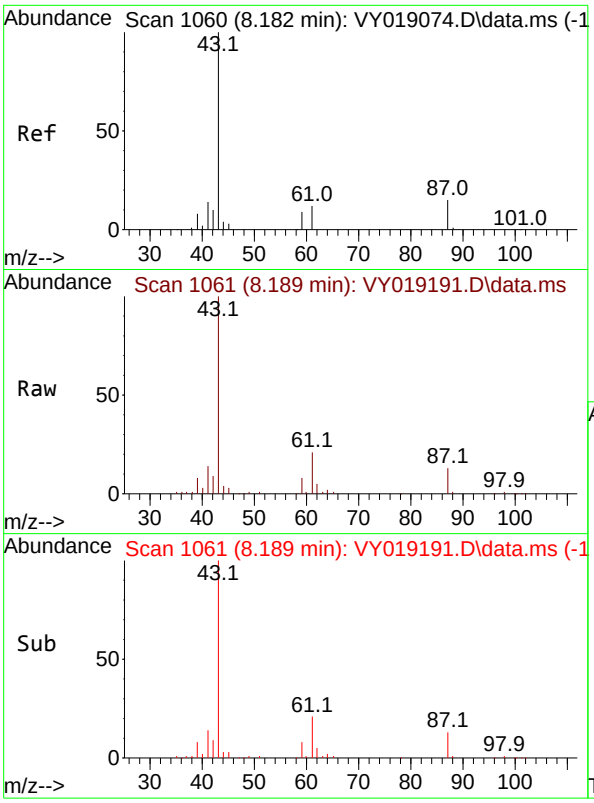


#42
1,2-Dichloroethane
Concen: 51.131 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 62 Resp: 82407

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	22.0

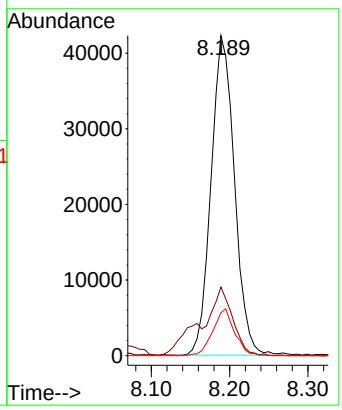




#43
Isopropyl Acetate
Concen: 50.447 ug/l
RT: 8.189 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 43 Resp: 8796

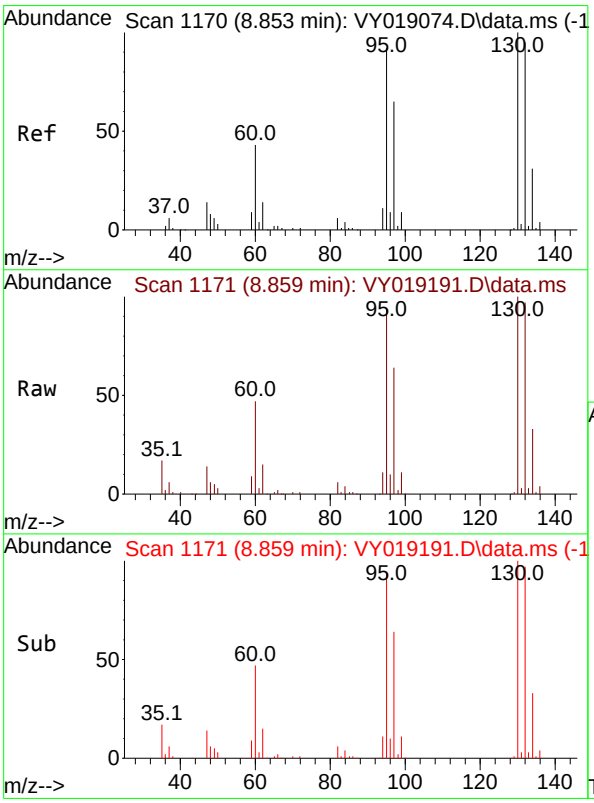
Ion	Ratio	Lower	Upper
43	100		
61	29.1	27.9	41.9
87	13.6	13.1	19.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

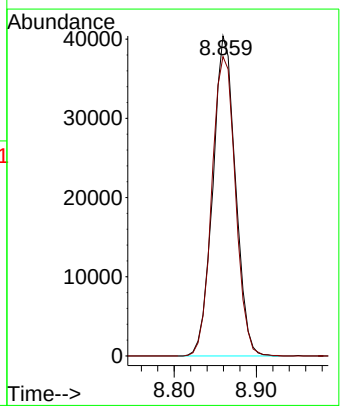
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

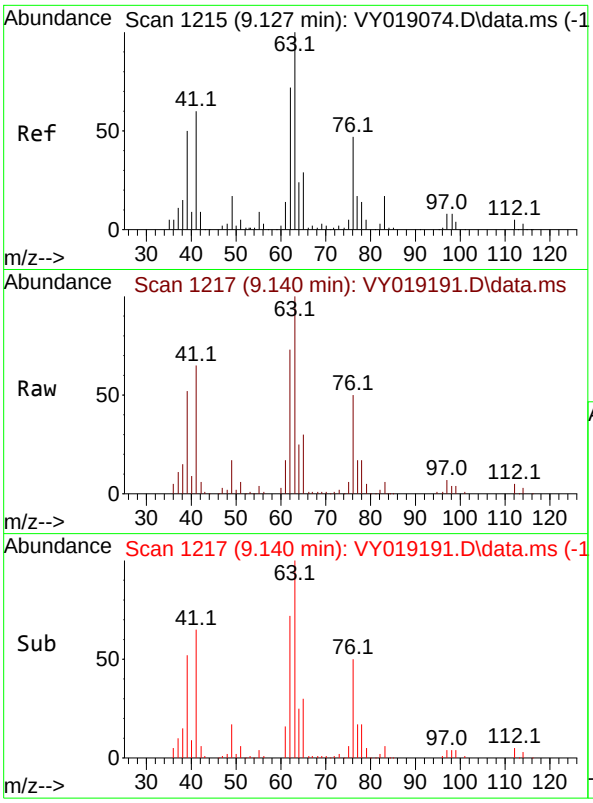


#44
Trichloroethene
Concen: 46.419 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:130 Resp: 77302

Ion	Ratio	Lower	Upper
130	100		
95	93.6	0.0	188.0

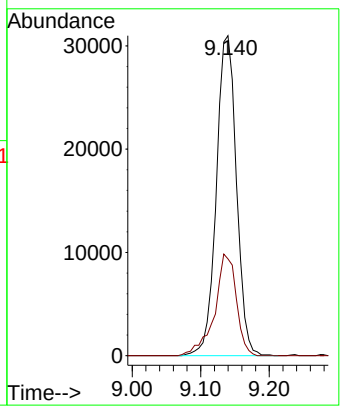




#45
1,2-Dichloropropane
Concen: 47.367 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 63 Resp: 6298

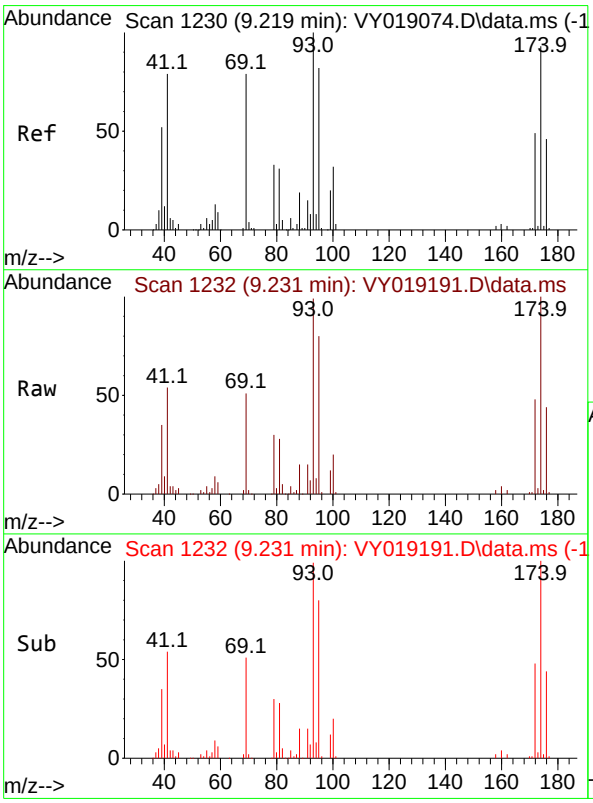
Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

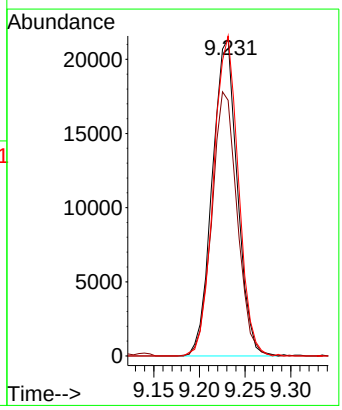
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

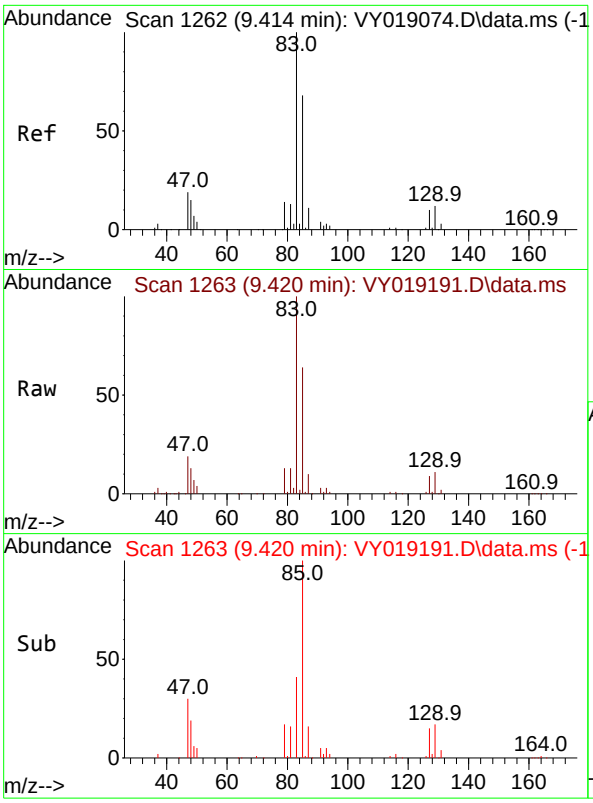


#46
Dibromomethane
Concen: 47.238 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 93 Resp: 40741

Ion	Ratio	Lower	Upper
93	100		
95	84.0	66.2	99.4
174	100.3	80.9	121.3

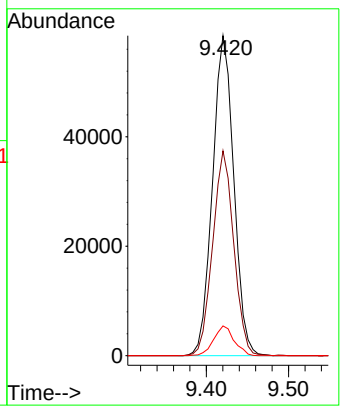




#47
Bromodichloromethane
Concen: 49.676 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 83 Resp: 10511

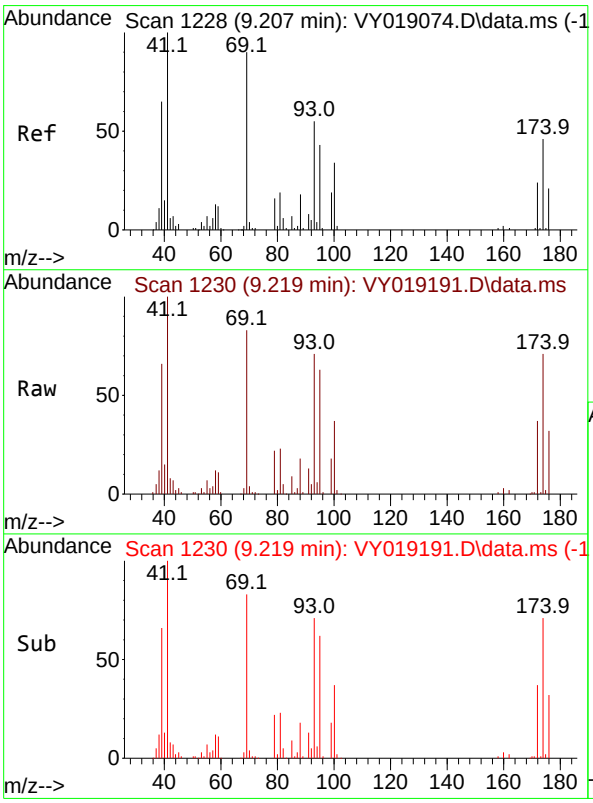
Ion	Ratio	Lower	Upper
83	100		
85	64.0	50.1	75.1
127	9.3	7.4	11.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

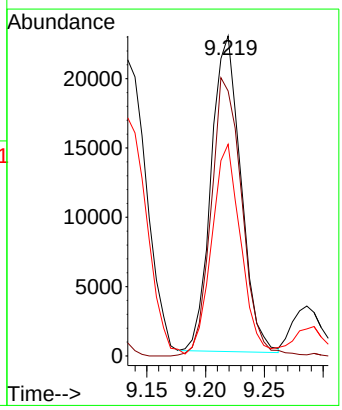
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

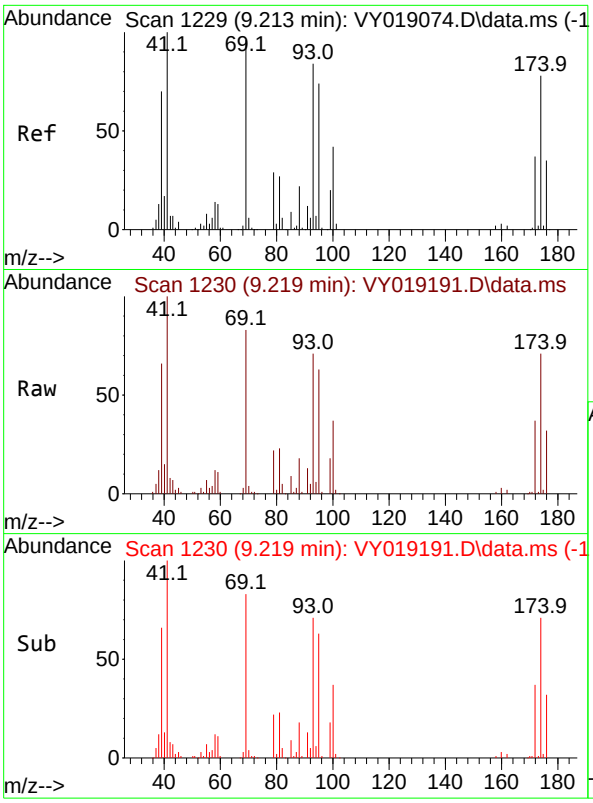


#48
Methyl methacrylate
Concen: 51.525 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 41 Resp: 40039

Ion	Ratio	Lower	Upper
41	100		
69	91.1	84.1	126.1
39	64.7	43.6	65.4

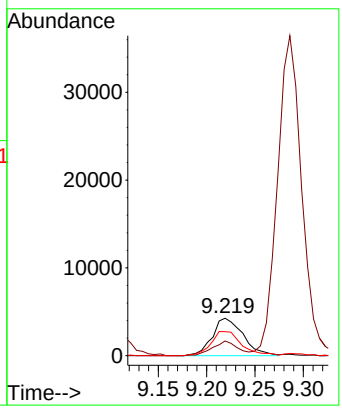




#49
1,4-Dioxane
Concen: 904.612 ug/l
RT: 9.219 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 88 Resp: 945

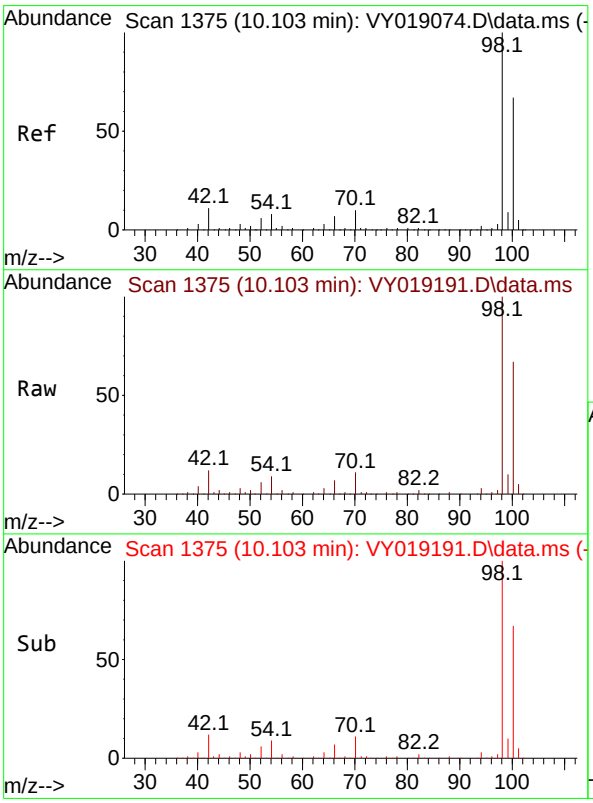
Ion	Ratio	Lower	Upper
88	100		
43	32.0	0.0	0.0
58	64.5	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

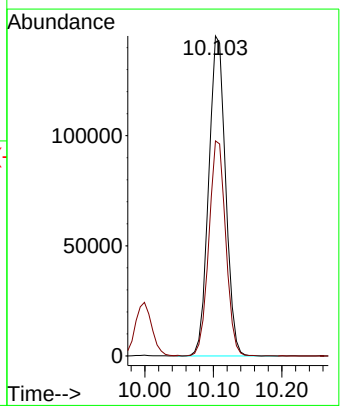
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

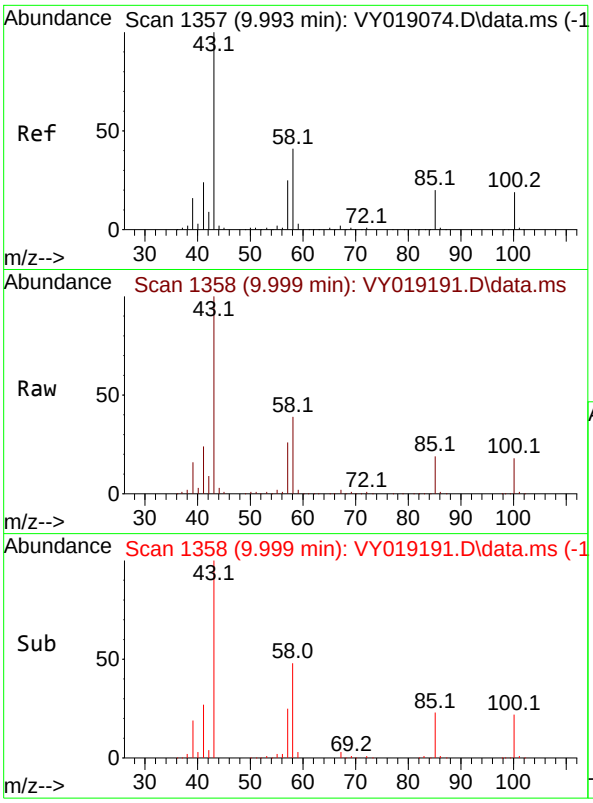


#50
Toluene-d8
Concen: 48.803 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 98 Resp: 248885

Ion	Ratio	Lower	Upper
98	100		
100	67.1	52.0	78.0

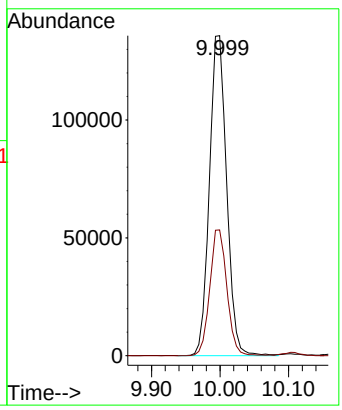




#51
4-Methyl-2-Pentanone
Concen: 256.524 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 43 Resp: 23740

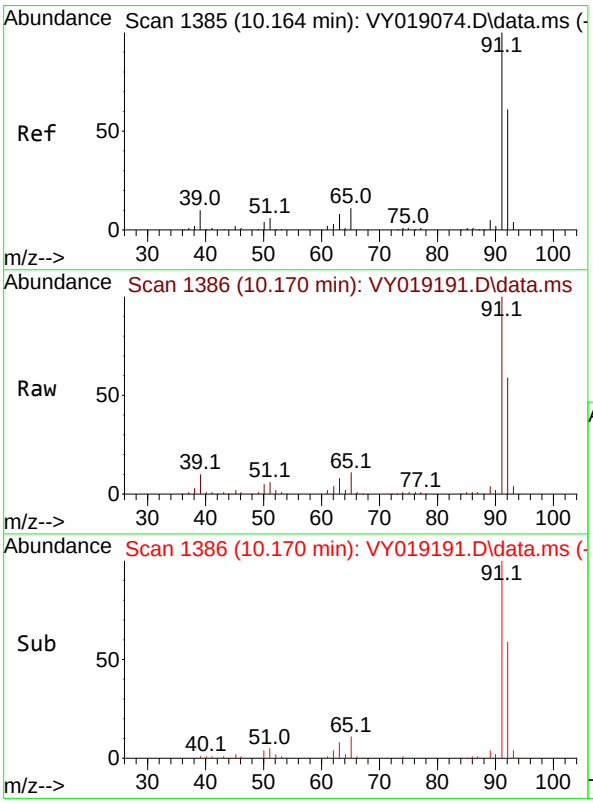
Ion	Ratio	Lower	Upper
43	100		
58	39.0	35.7	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

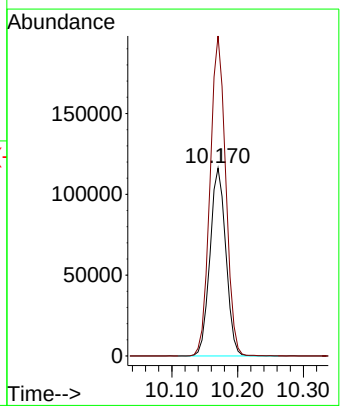
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

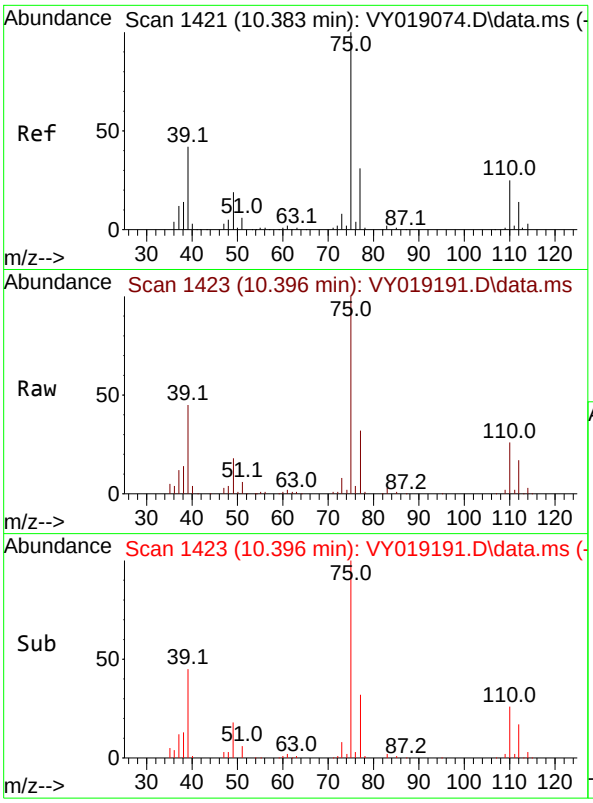


#52
Toluene
Concen: 49.737 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 92 Resp: 194854

Ion	Ratio	Lower	Upper
92	100		
91	168.7	139.0	208.6

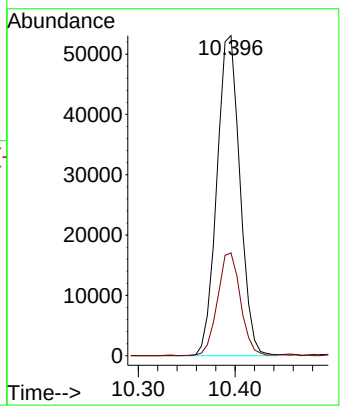




#53
t-1,3-Dichloropropene
Concen: 49.957 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.012 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 75 Resp: 8768

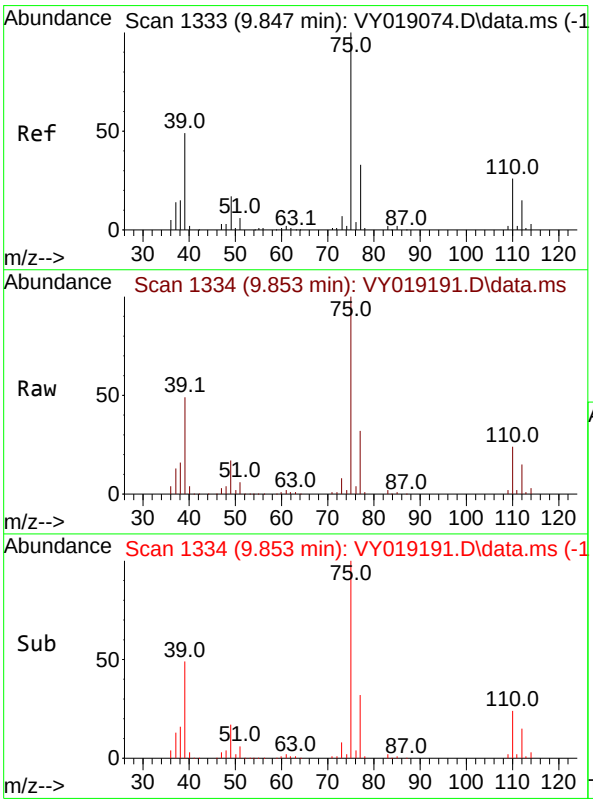
Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.1	36.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

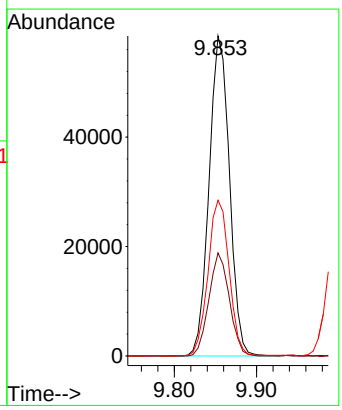
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

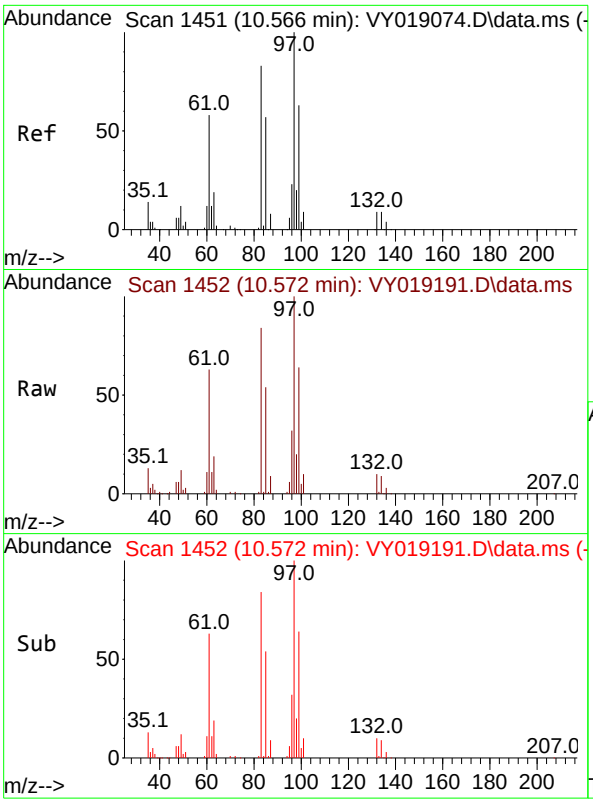


#54
cis-1,3-Dichloropropene
Concen: 47.706 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 75 Resp: 100705

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.4	38.0
39	48.5	29.8	44.6#

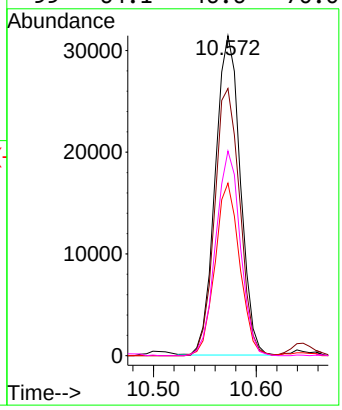




#55
1,1,2-Trichloroethane
Concen: 47.901 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 97 Resp: 5318

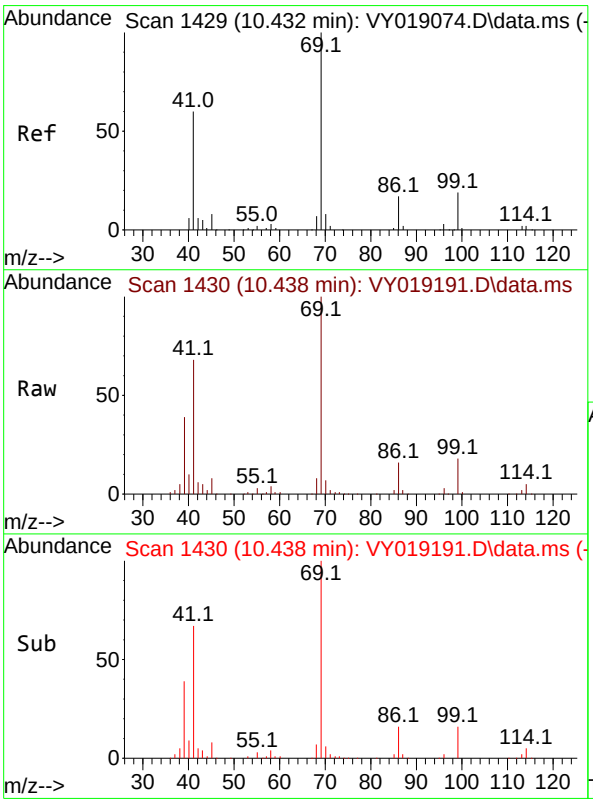
Ion	Ratio	Lower	Upper
97	100		
83	83.7	67.5	101.3
85	54.0	42.9	64.3
99	64.1	46.6	70.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

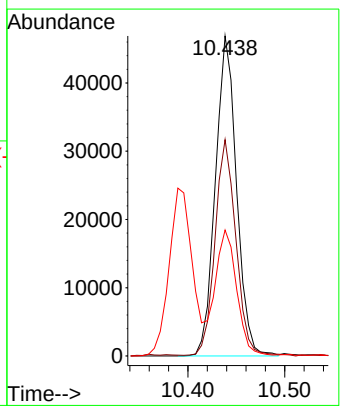
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

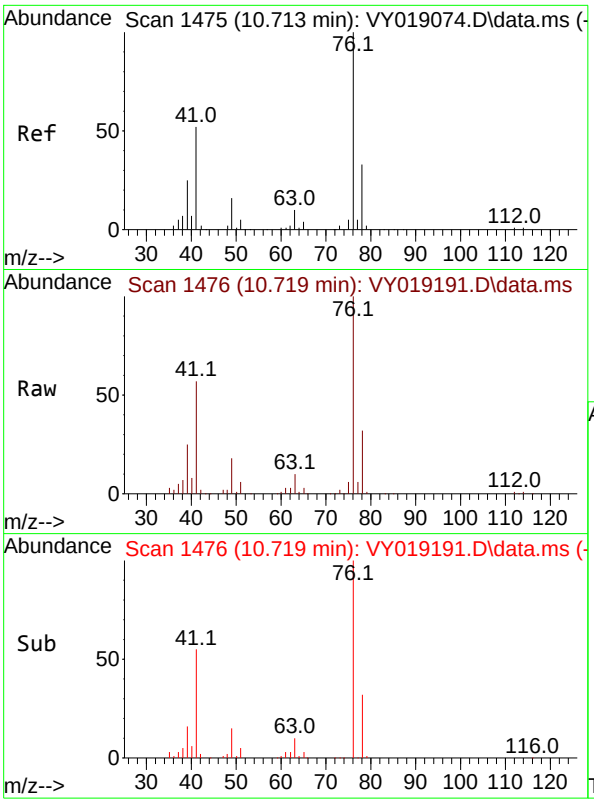


#56
Ethyl methacrylate
Concen: 49.015 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 69 Resp: 71231

Ion	Ratio	Lower	Upper
69	100		
41	67.1	42.3	63.5#
39	40.4	22.9	34.3#

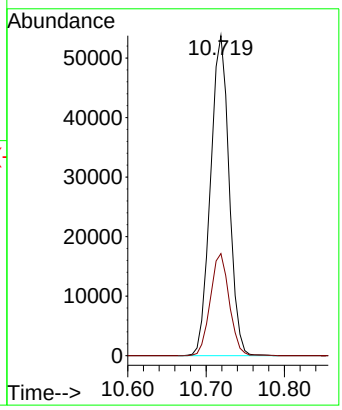




#57
1,3-Dichloropropane
Concen: 48.929 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 76 Resp: 8855

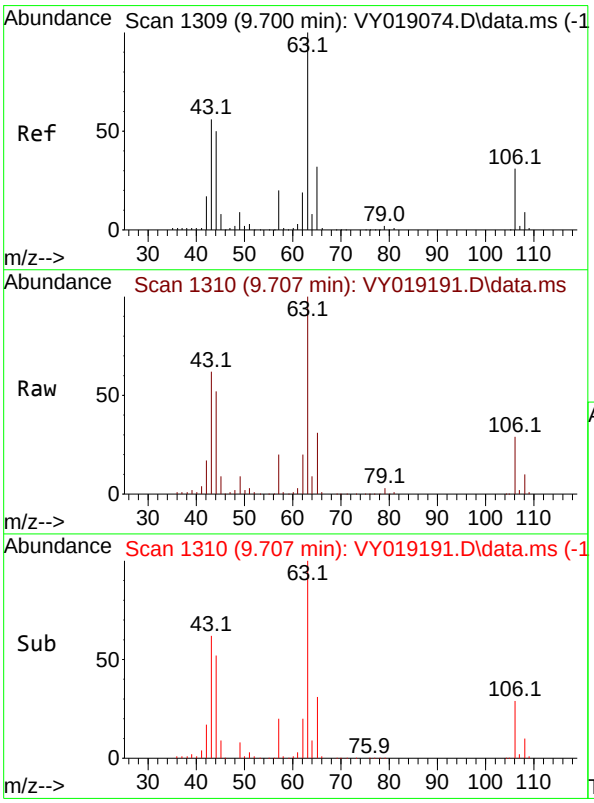
Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.2	39.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

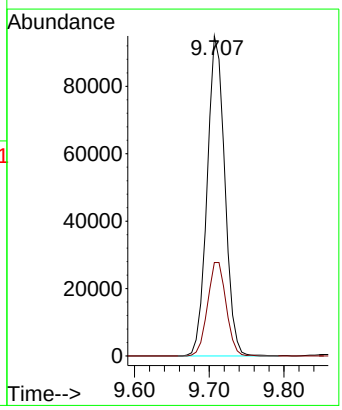
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

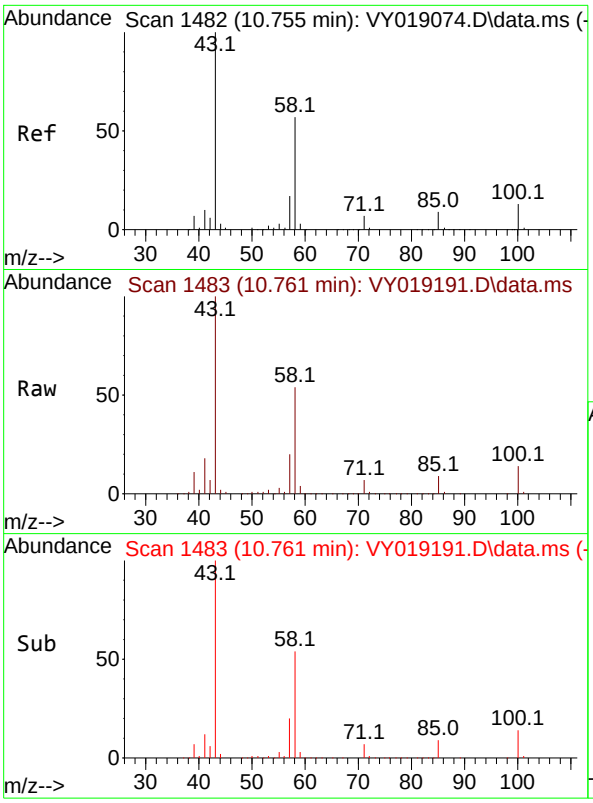


#58
2-Chloroethyl Vinyl ether
Concen: 225.822 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 63 Resp: 155687

Ion	Ratio	Lower	Upper
63	100		
106	30.8	23.7	35.5

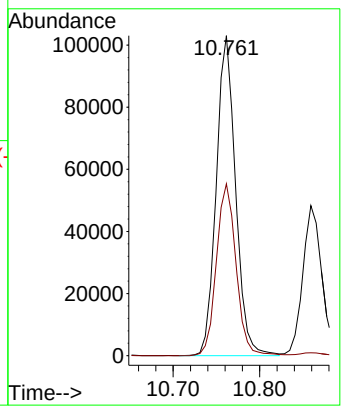




#59
2-Hexanone
Concen: 251.400 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 43 Resp: 15984

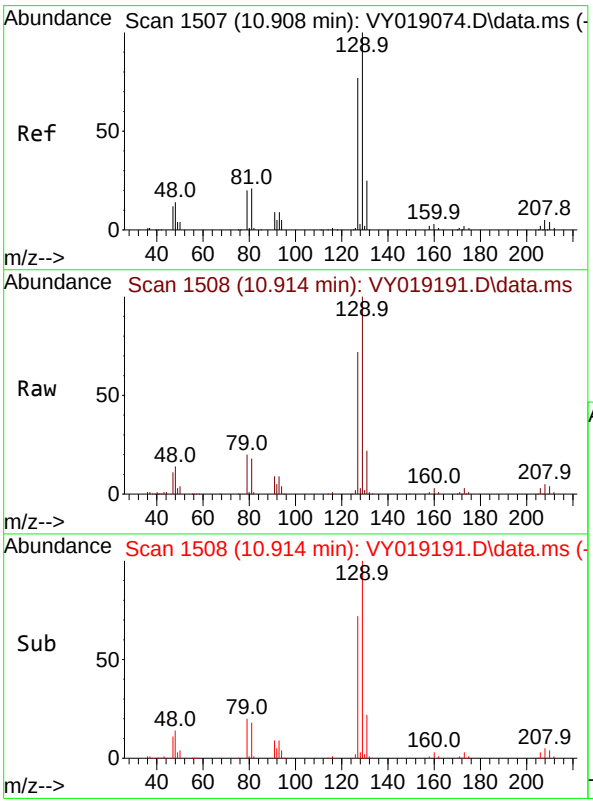
Ion	Ratio	Lower	Upper
43	100		
58	54.6	31.4	94.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

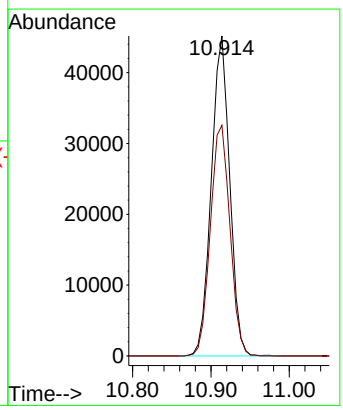
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

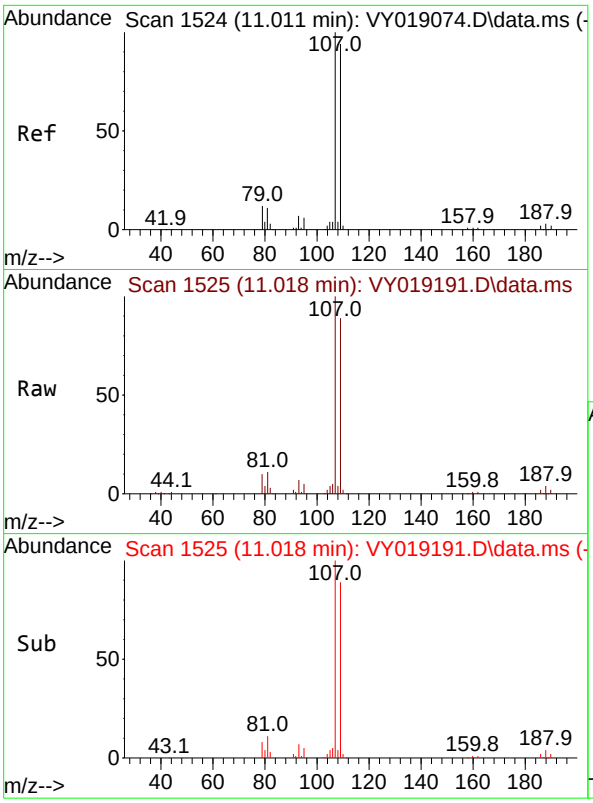


#60
Dibromochloromethane
Concen: 48.777 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:129 Resp: 73762

Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.0	117.0

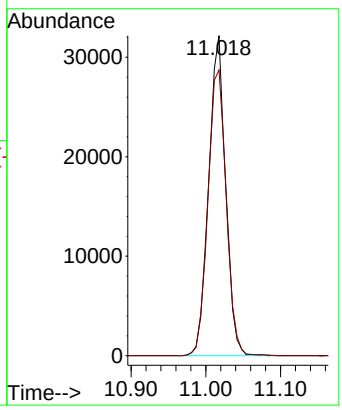




#61
1,2-Dibromoethane
Concen: 47.210 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:107 Resp: 5066

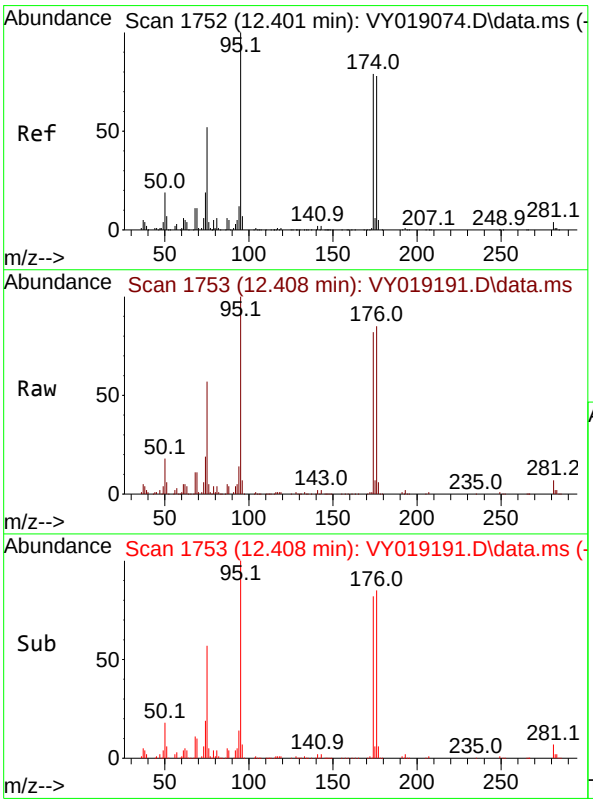
Ion	Ratio	Lower	Upper
107	100		
109	96.4	75.9	113.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

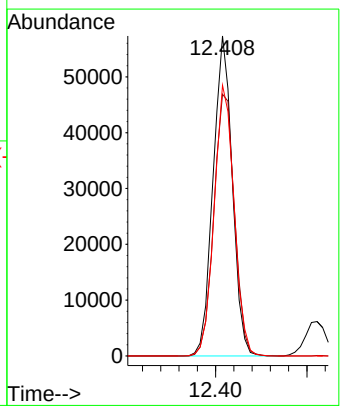
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

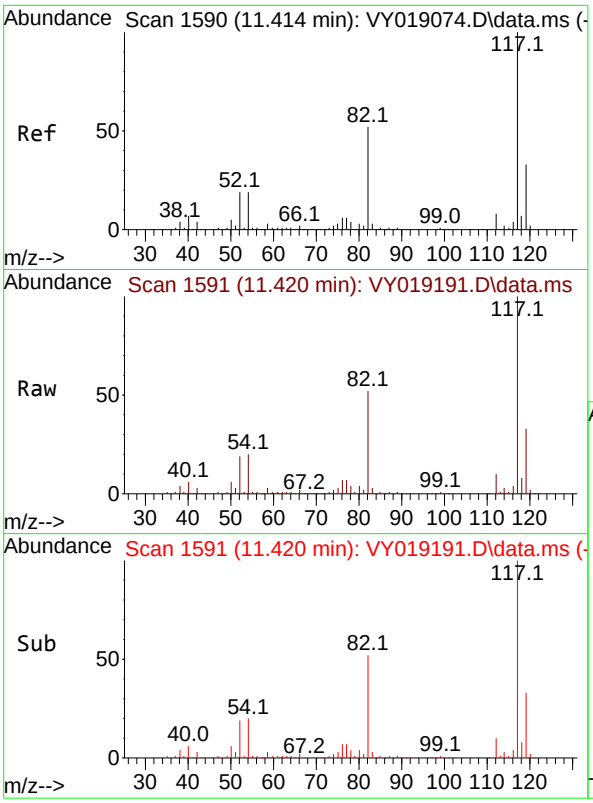


#62
4-Bromofluorobenzene
Concen: 48.201 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 95 Resp: 83799

Ion	Ratio	Lower	Upper
95	100		
174	87.8	0.0	175.6
176	87.6	0.0	171.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

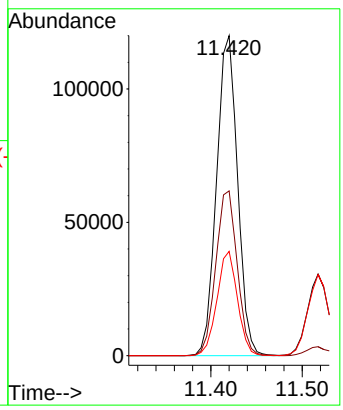
Tgt Ion:117 Resp: 19181

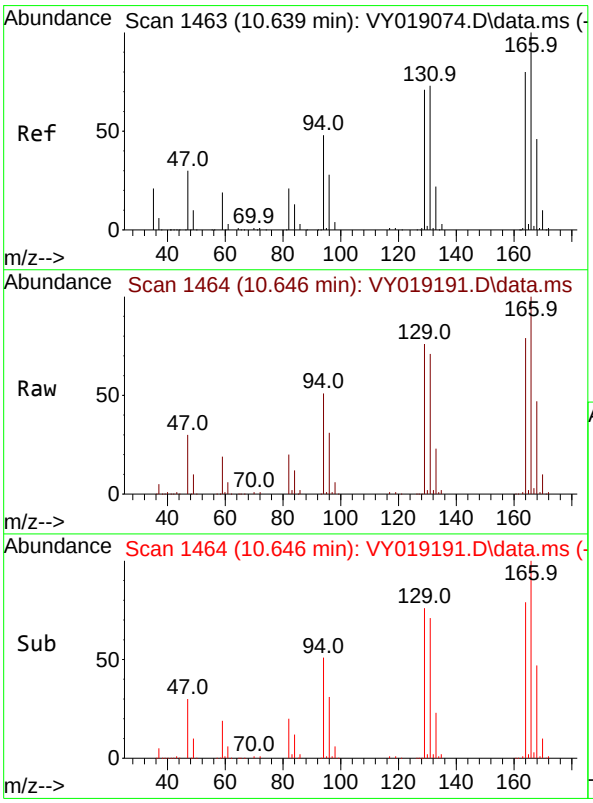
Ion	Ratio	Lower	Upper
117	100		
82	51.5	42.4	63.6
119	32.6	25.9	38.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

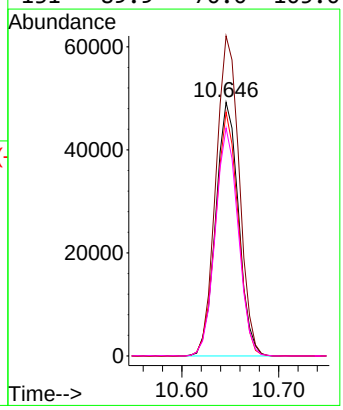


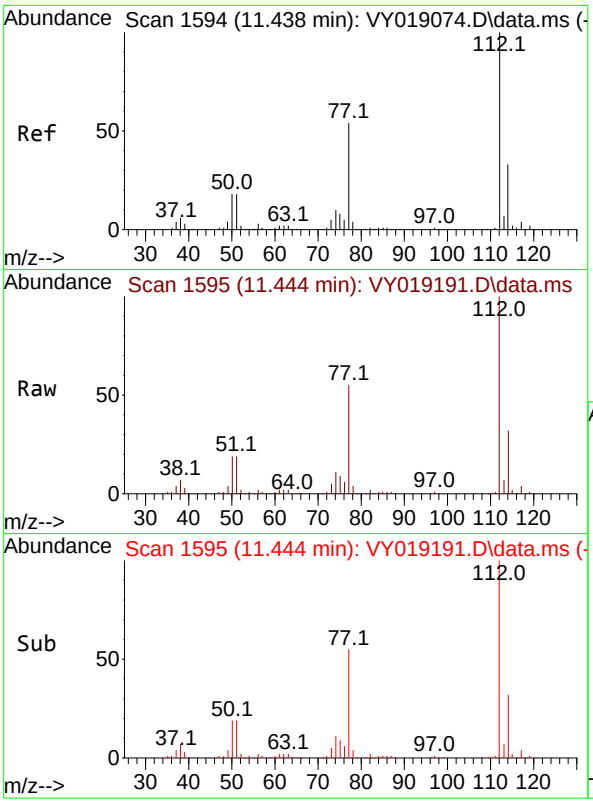


#64
Tetrachloroethene
Concen: 48.129 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:164 Resp: 80693

Ion	Ratio	Lower	Upper
164	100		
166	126.2	102.6	154.0
129	96.1	72.0	108.0
131	89.9	70.0	105.0

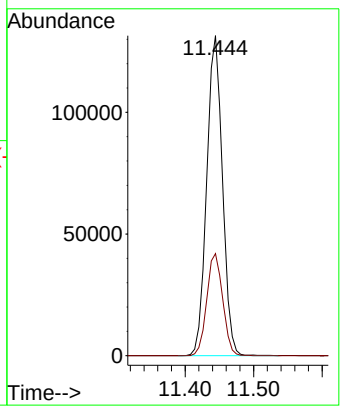




#65
Chlorobenzene
Concen: 47.497 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:112 Resp: 20978

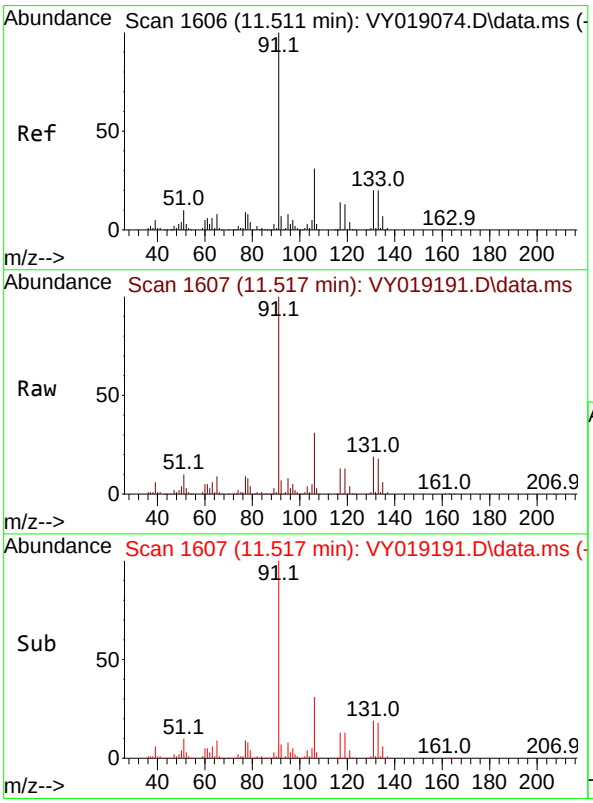
Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

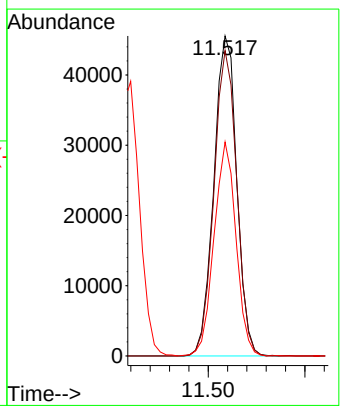
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

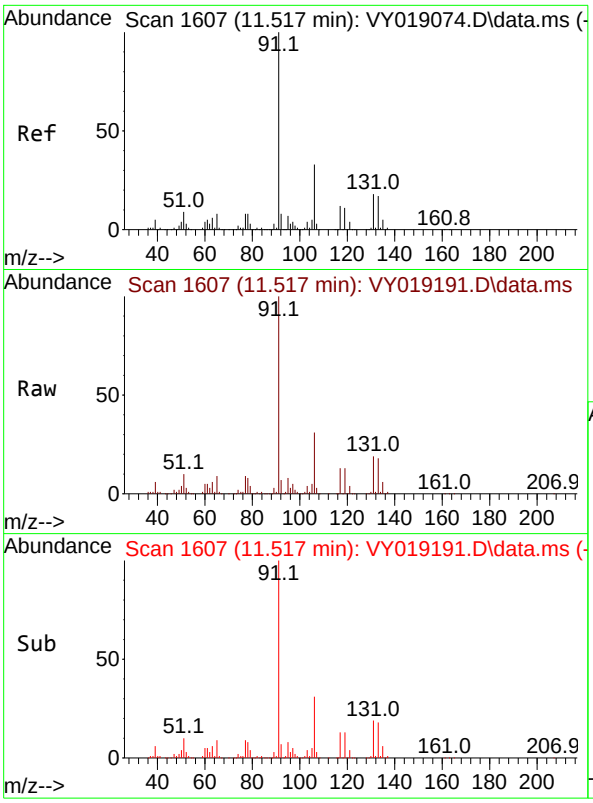


#66
1,1,1,2-Tetrachloroethane
Concen: 48.159 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:131 Resp: 74802

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.8	143.3
119	64.1	34.1	102.2





#67
Ethyl Benzene
Concen: 48.576 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

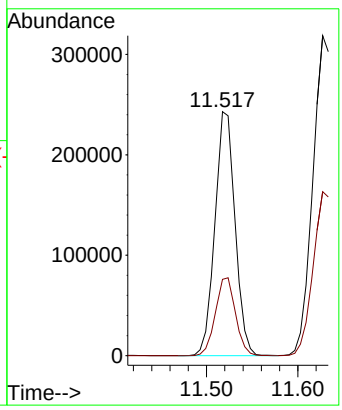
Tgt Ion: 91 Resp: 37238

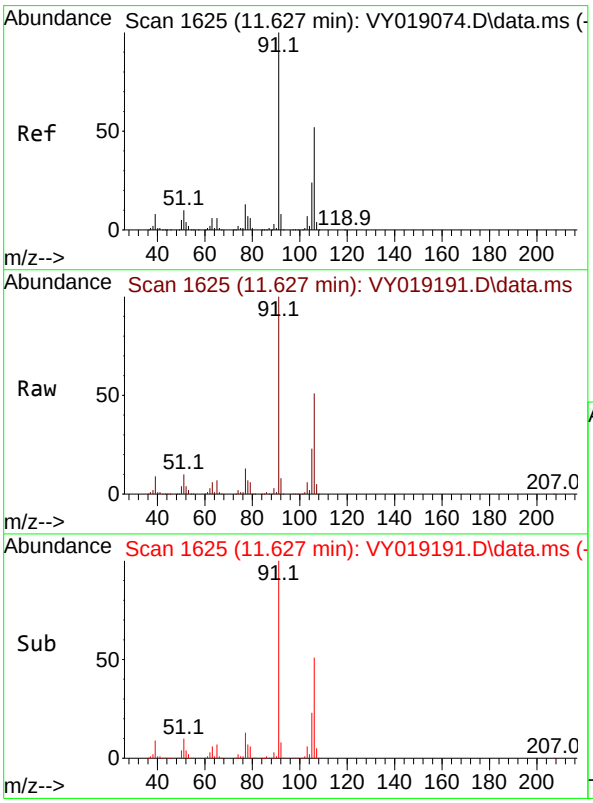
Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

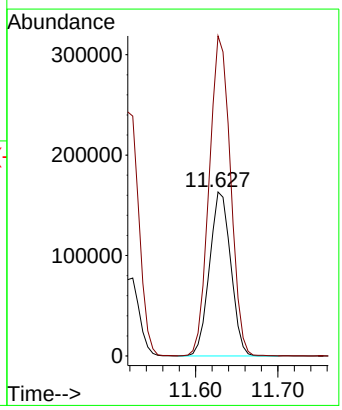


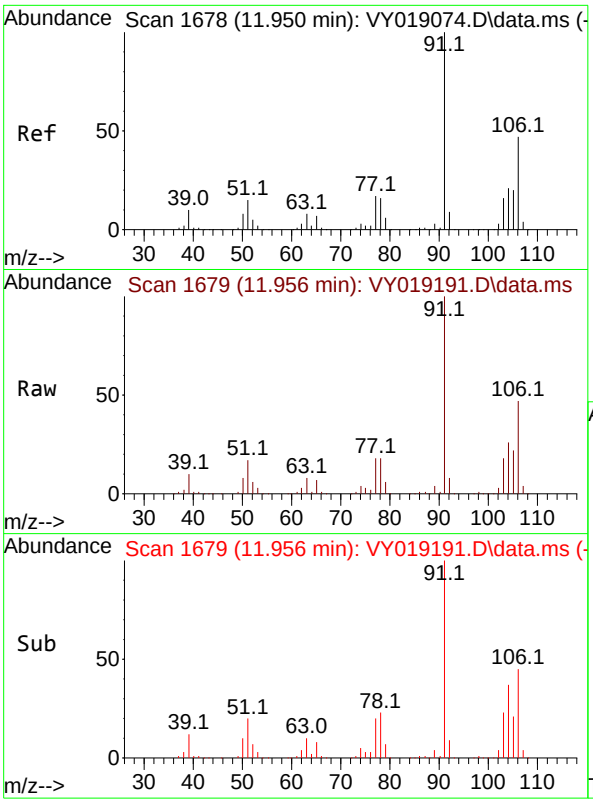


#68
m/p-Xylenes
Concen: 96.221 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:106 Resp: 292684

Ion	Ratio	Lower	Upper
106	100		
91	196.5	156.0	234.0

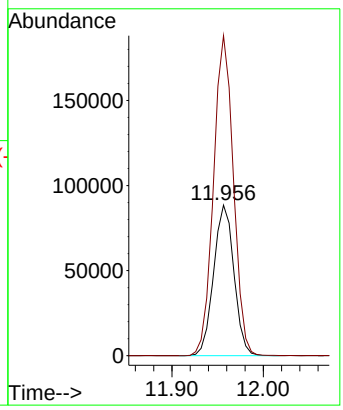




#69
o-Xylene
Concen: 48.551 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:106 Resp: 13676

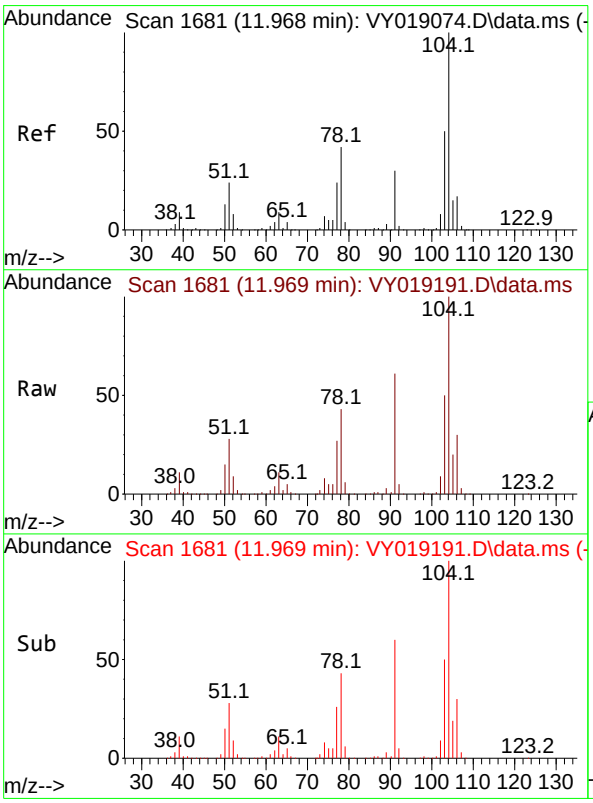
Ion	Ratio	Lower	Upper
106	100		
91	208.1	103.6	310.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

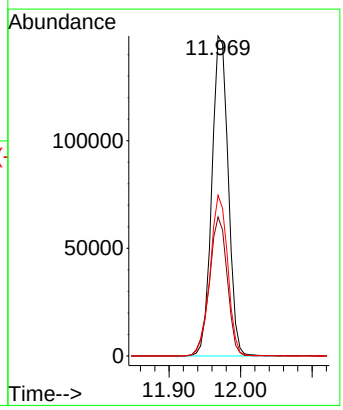
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

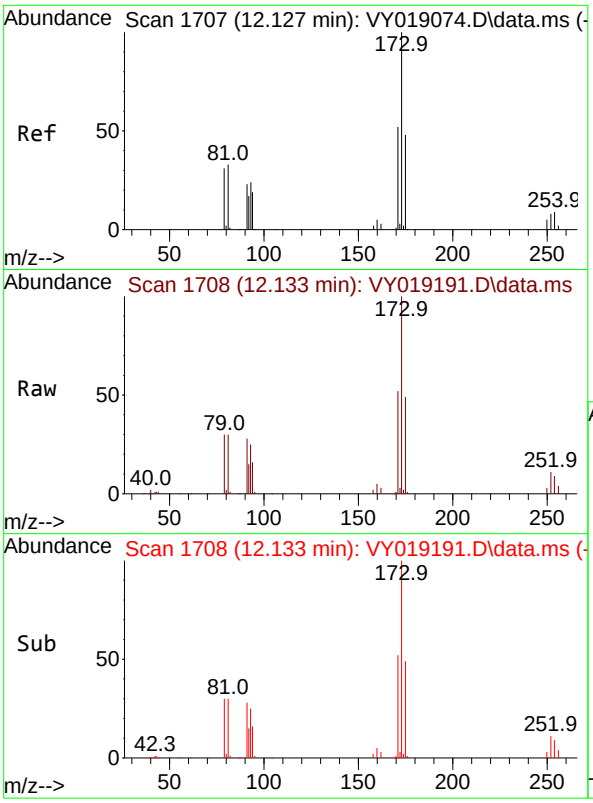


#70
Styrene
Concen: 49.221 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:104 Resp: 236434

Ion	Ratio	Lower	Upper
104	100		
78	47.4	37.0	55.4
103	53.8	44.2	66.2

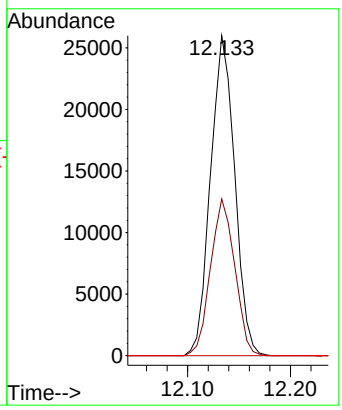




#71
Bromoform
Concen: 47.874 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:173 Resp: 4250

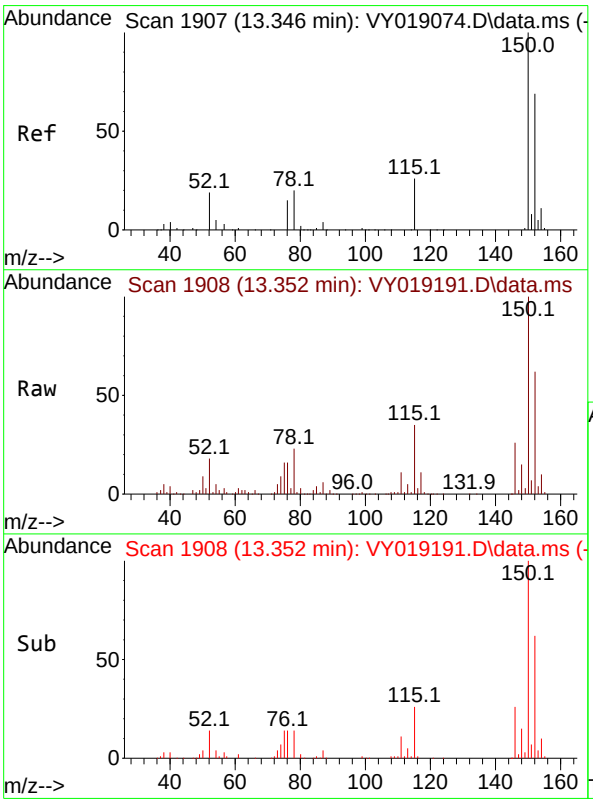
Ion	Ratio	Lower	Upper
173	100		
175	49.1	25.1	75.3
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

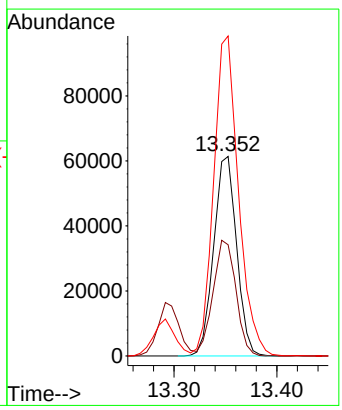
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

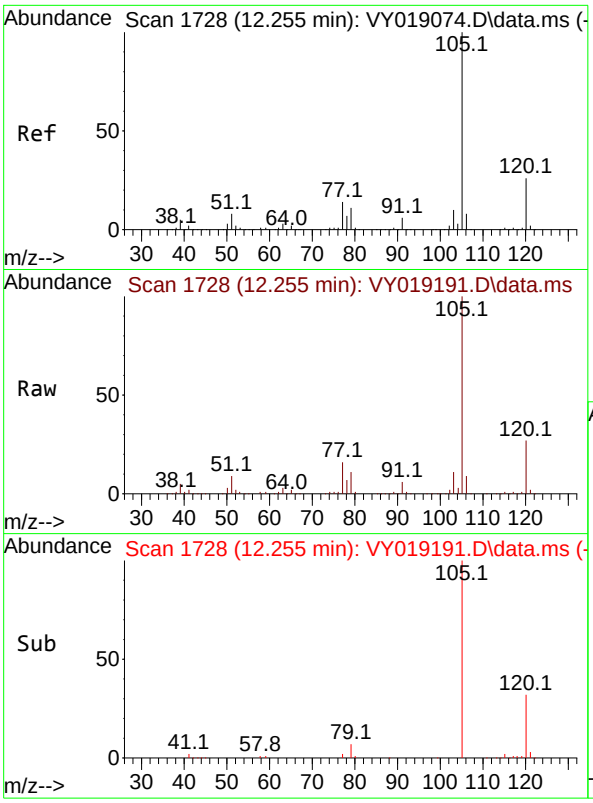


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:152 Resp: 94816

Ion	Ratio	Lower	Upper
152	100		
115	58.0	28.2	84.7
150	173.7	0.0	345.6





#73
Isopropylbenzene
Concen: 49.067 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

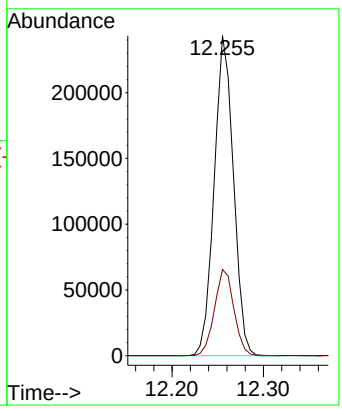
Tgt Ion:105 Resp: 35658

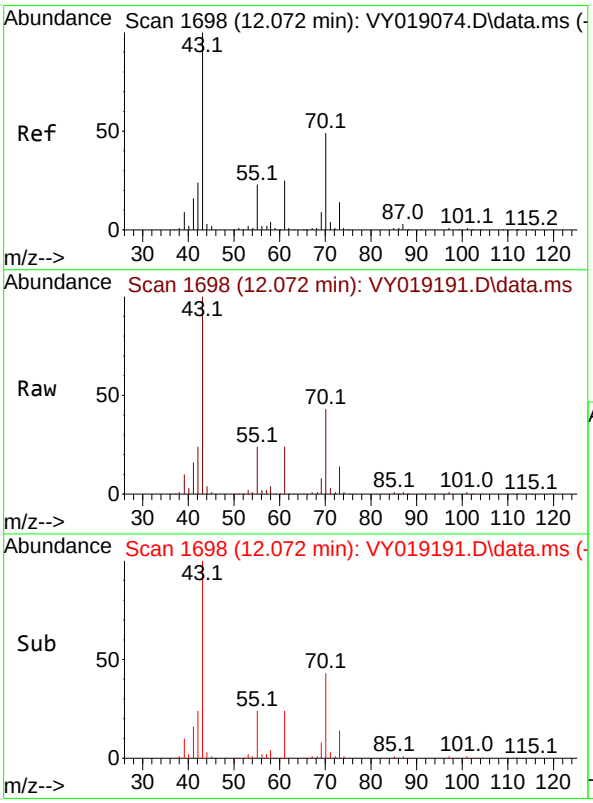
Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

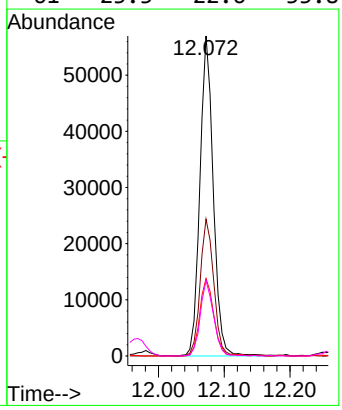


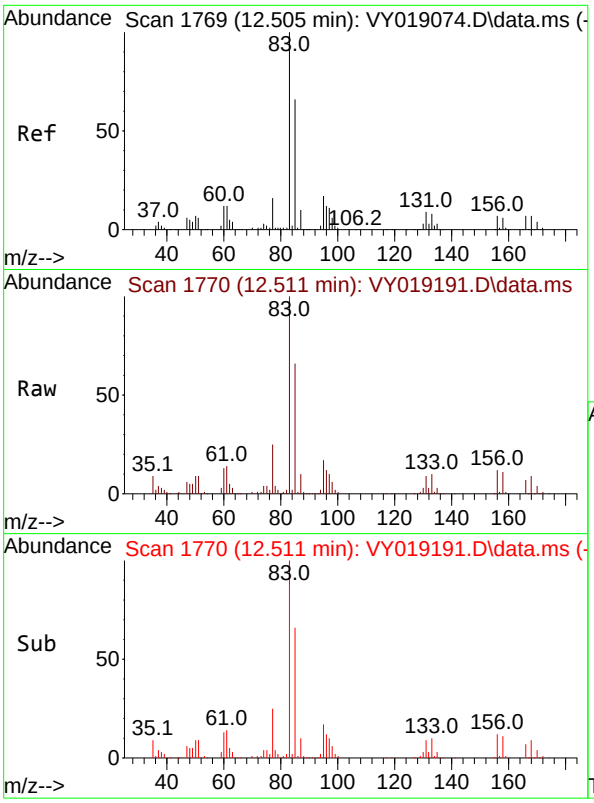


#74
N-amyl acetate
Concen: 50.946 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 43 Resp: 80732

Ion	Ratio	Lower	Upper
43	100		
70	43.2	41.4	62.2
55	25.6	23.3	34.9
61	23.3	22.6	33.8





#75
1,1,2,2-Tetrachloroethane
Concen: 44.410 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

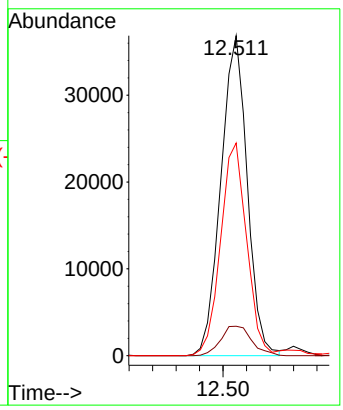
Tgt Ion: 83 Resp: 5745

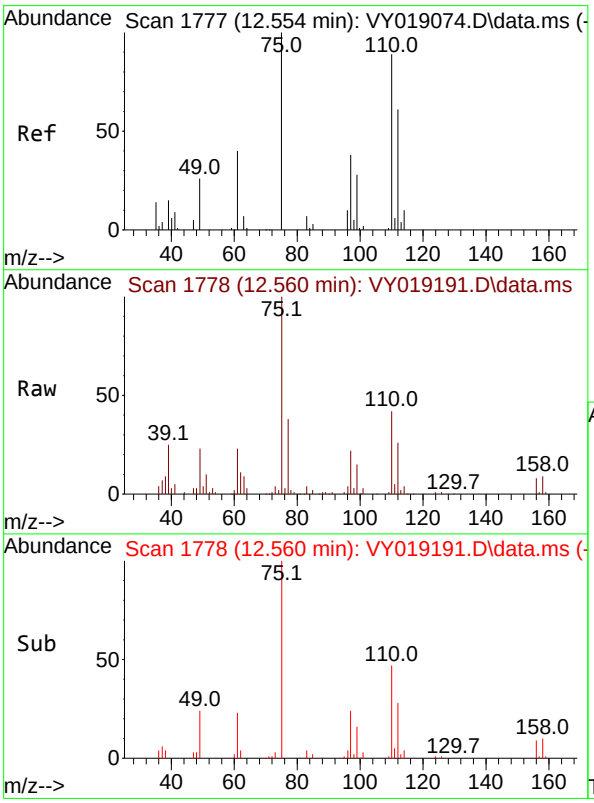
Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.0	14.9
85	66.0	32.0	96.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

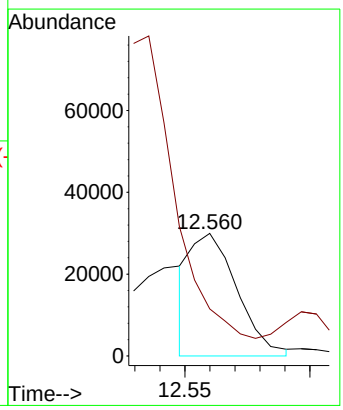


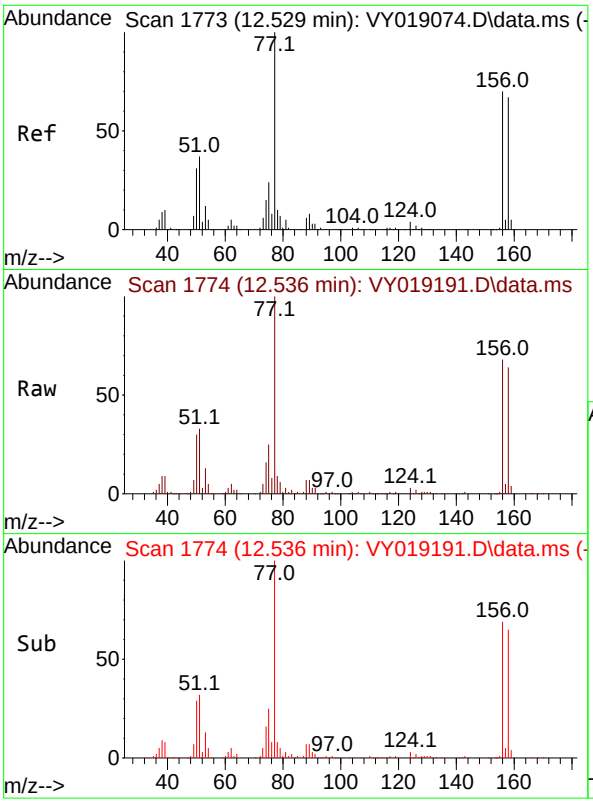


#76
1,2,3-Trichloropropane
Concen: 41.498 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 75 Resp: 38803

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

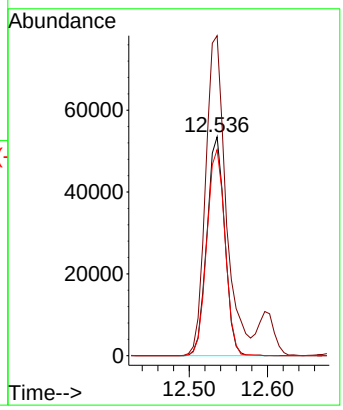




#77
Bromobenzene
Concen: 48.239 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:156 Resp: 8419

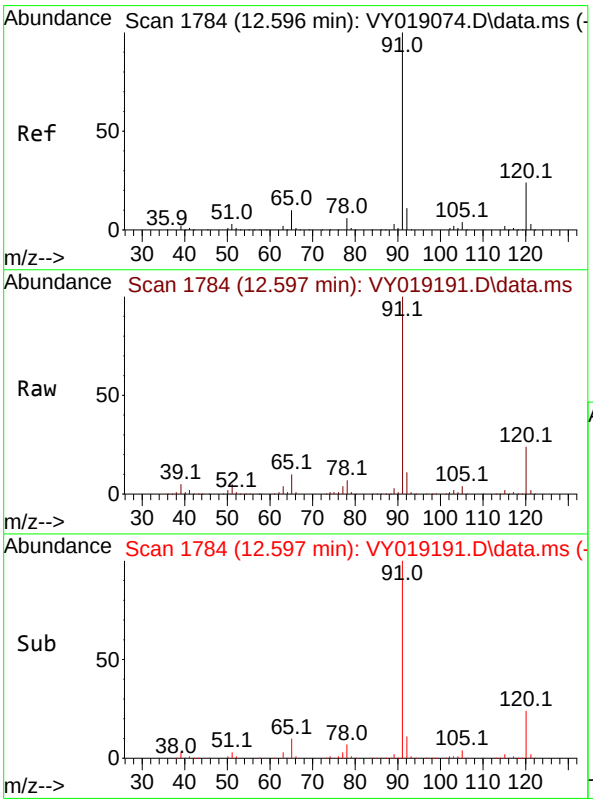
Ion	Ratio	Lower	Upper
156	100		
77	167.3	87.1	261.3
158	96.5	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

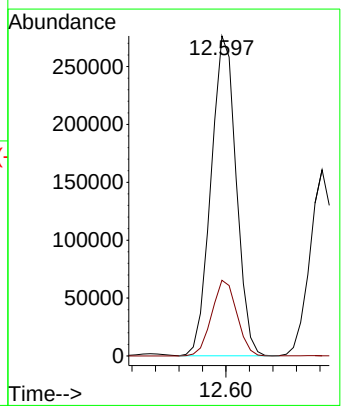
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

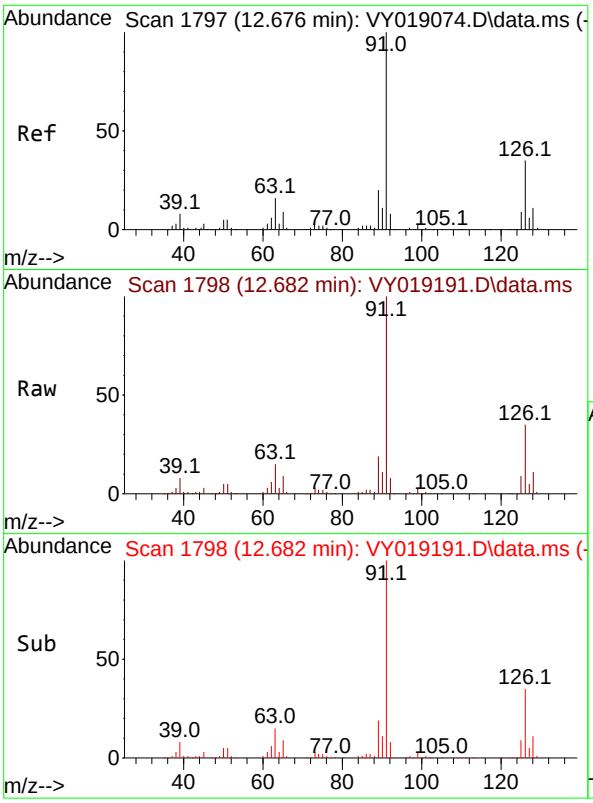


#78
n-propylbenzene
Concen: 47.398 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 91 Resp: 411766

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.5	34.4





#79
2-Chlorotoluene
Concen: 48.681 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

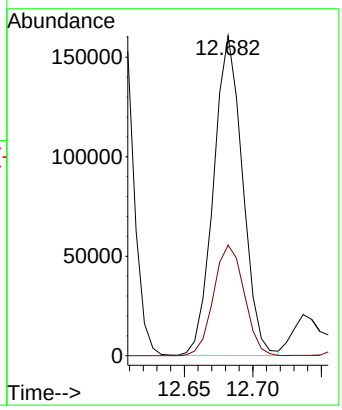
Tgt Ion: 91 Resp: 23710

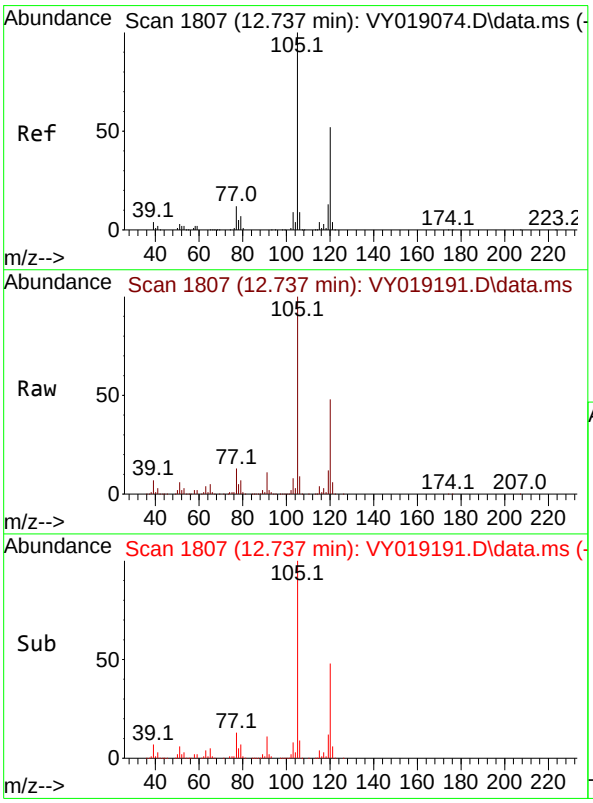
Ion	Ratio	Lower	Upper
91	100		
126	36.3	17.8	53.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

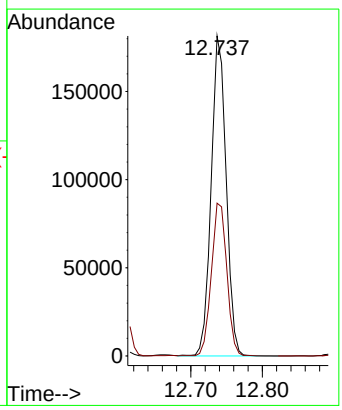


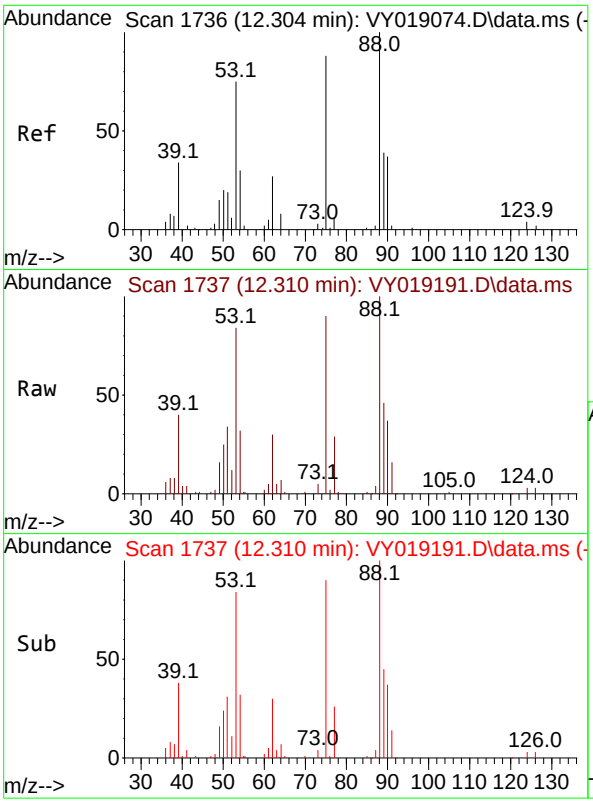


#80
1,3,5-Trimethylbenzene
Concen: 44.593 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:105 Resp: 264001

Ion	Ratio	Lower	Upper
105	100		
120	49.2	25.1	75.2





#81
trans-1,4-Dichloro-2-butene
Concen: 45.767 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

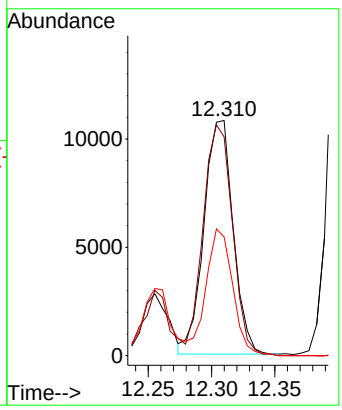
Tgt Ion: 75 Resp: 1732

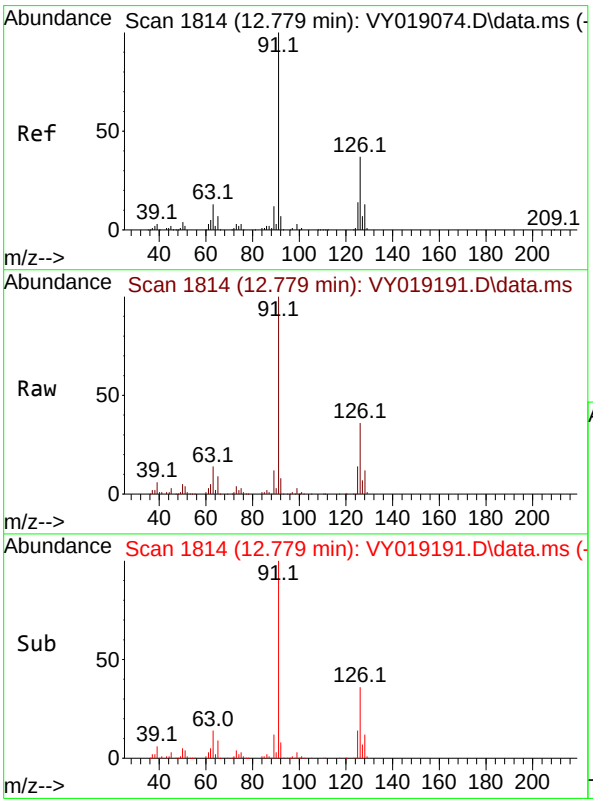
Ion	Ratio	Lower	Upper
75	100		
53	98.7	66.8	100.2
89	49.8	35.8	53.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

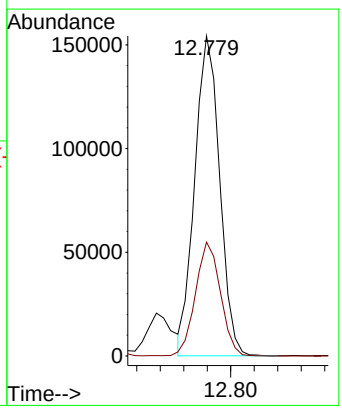


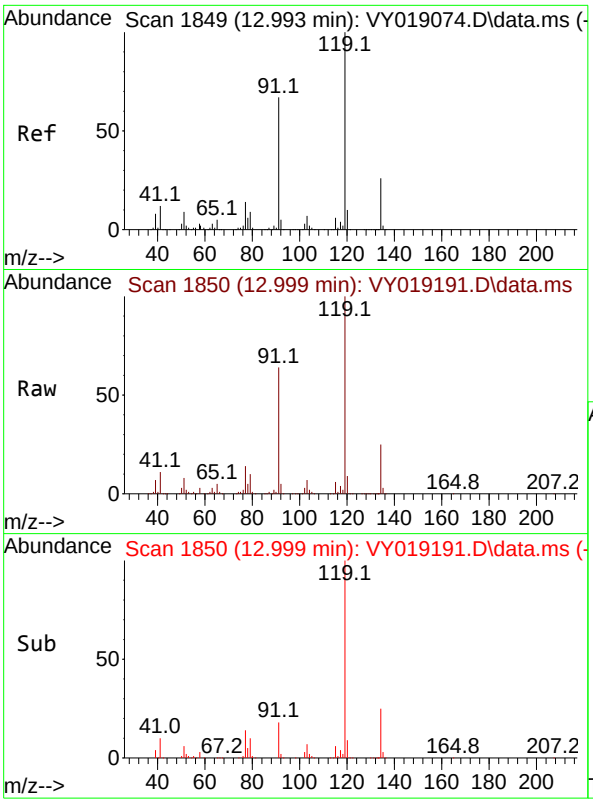


#82
4-Chlorotoluene
Concen: 44.777 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 91 Resp: 226899

Ion	Ratio	Lower	Upper
91	100		
126	35.8	17.6	52.9

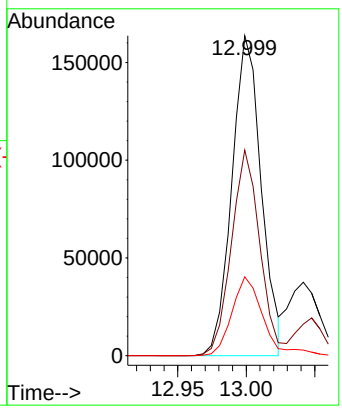




#83
tert-Butylbenzene
Concen: 44.603 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:119 Resp: 24385

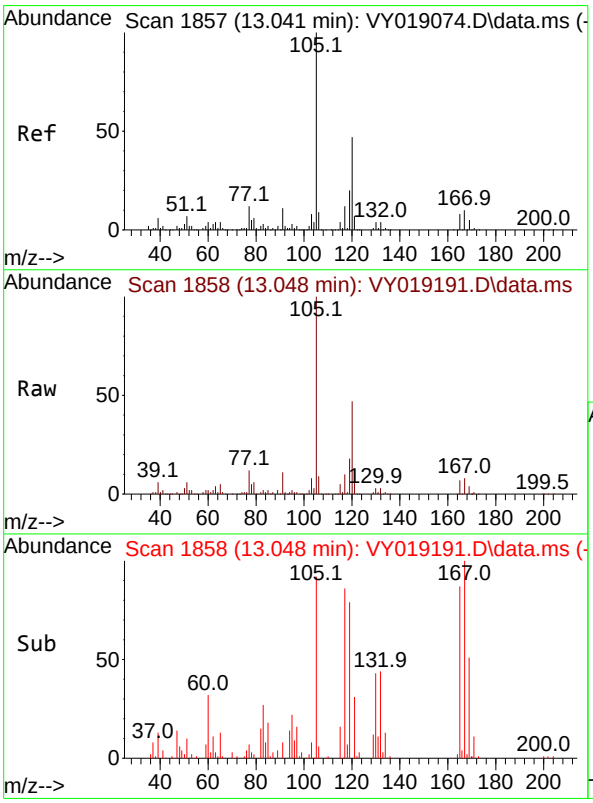
Ion	Ratio	Lower	Upper
119	100		
91	62.8	31.3	93.8
134	26.4	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

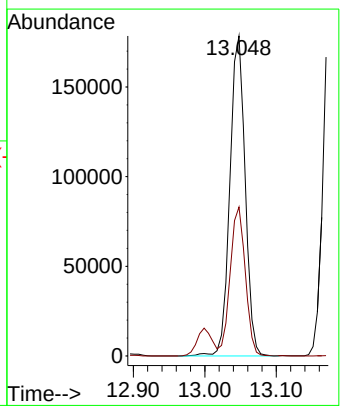
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

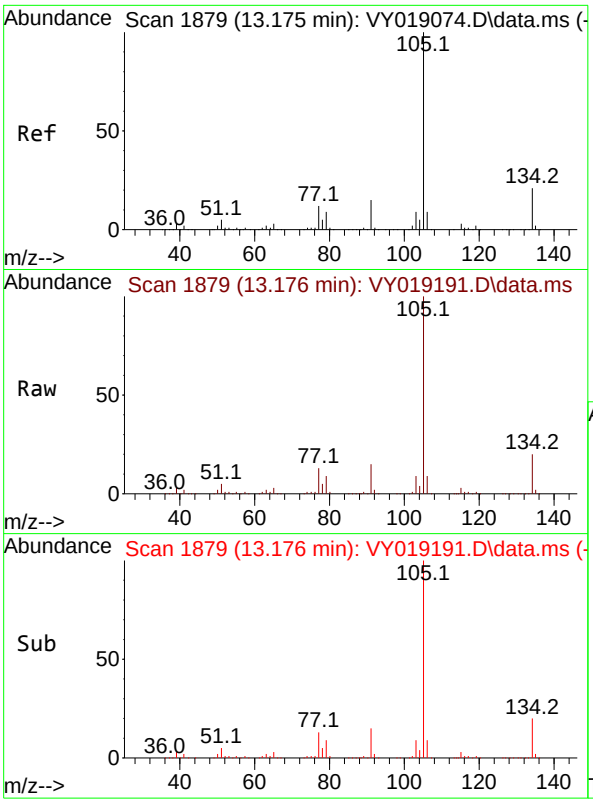


#84
1,2,4-Trimethylbenzene
Concen: 44.821 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:105 Resp: 264462

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.2	69.6

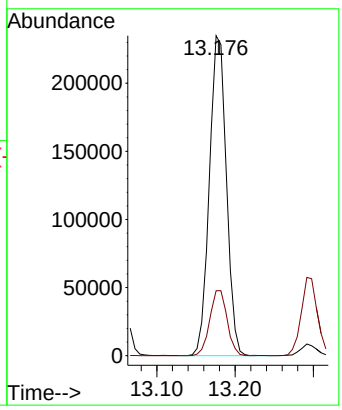




#85
sec-Butylbenzene
Concen: 44.477 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:105 Resp: 35435

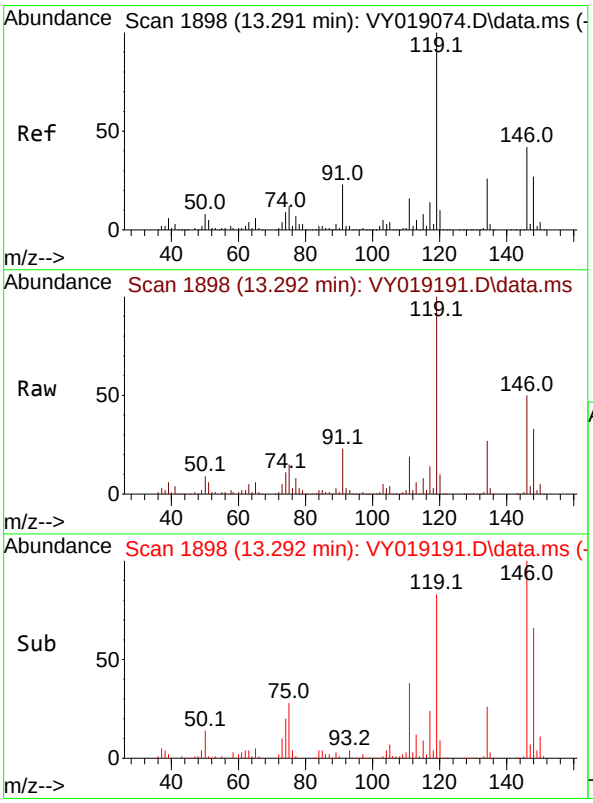
Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

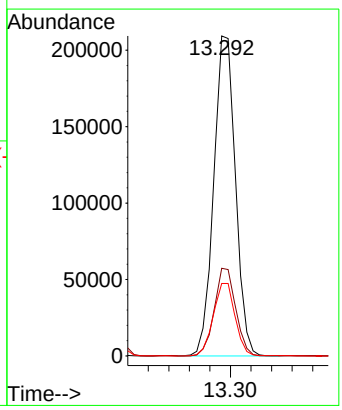
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

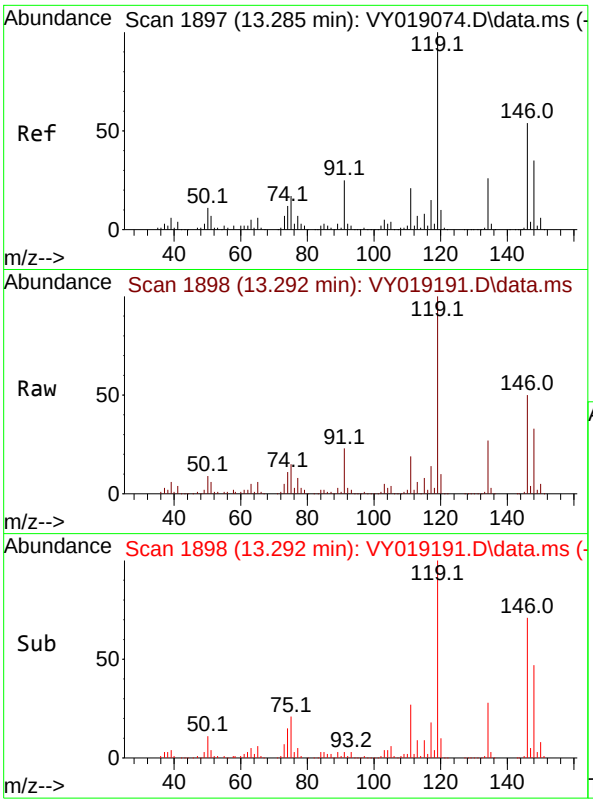


#86
p-Isopropyltoluene
Concen: 46.805 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:119 Resp: 306302

Ion	Ratio	Lower	Upper
119	100		
134	27.0	13.1	39.3
91	22.8	10.7	32.1

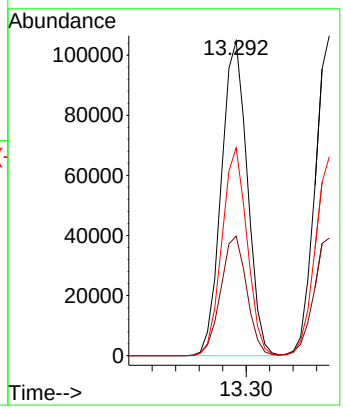




#87
1,3-Dichlorobenzene
Concen: 46.750 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:146 Resp: 16091

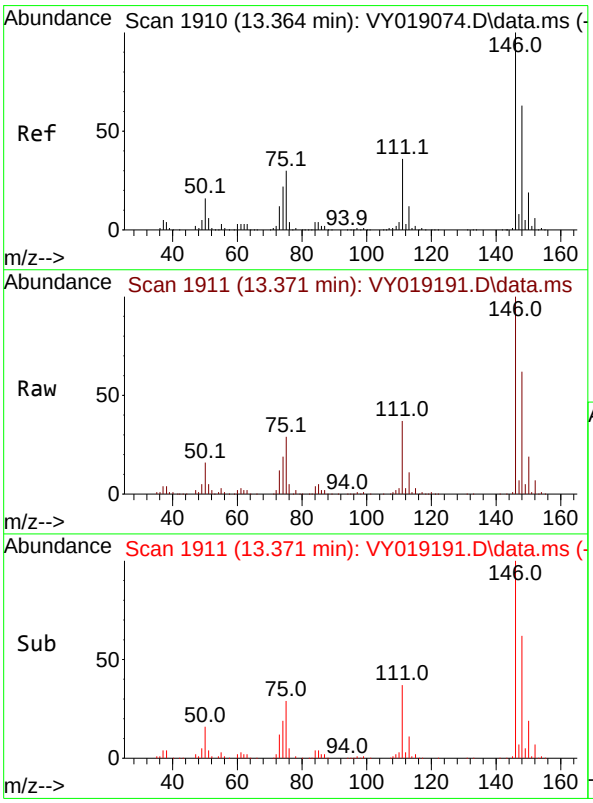
Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.0	57.0
148	63.9	31.7	95.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

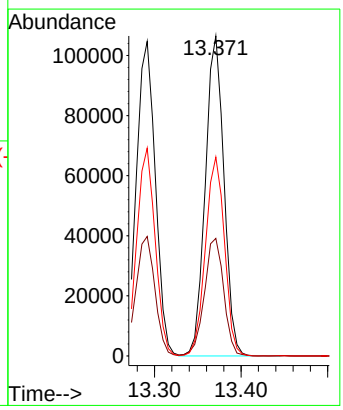
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

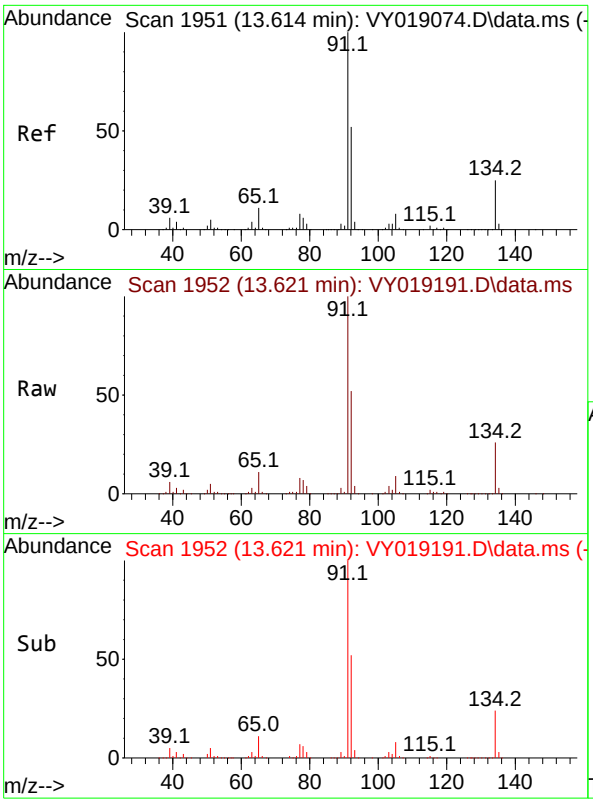


#88
1,4-Dichlorobenzene
Concen: 46.459 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:146 Resp: 158953

Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.4	55.4
148	63.6	32.4	97.2

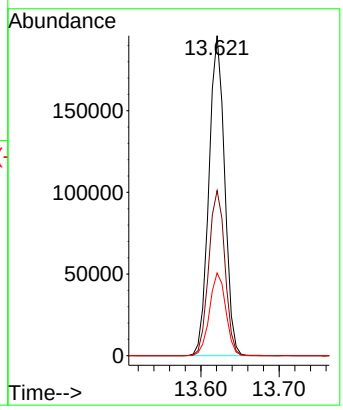




#89
n-Butylbenzene
Concen: 45.702 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 91 Resp: 27267

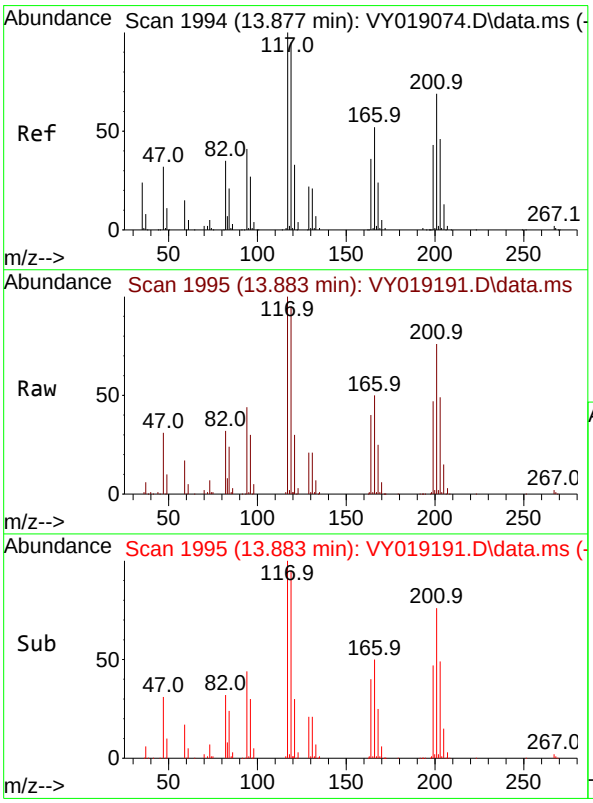
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.6	79.7
134	26.7	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

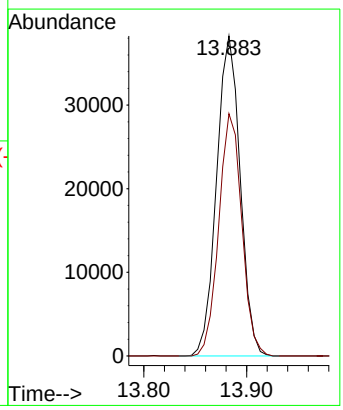
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

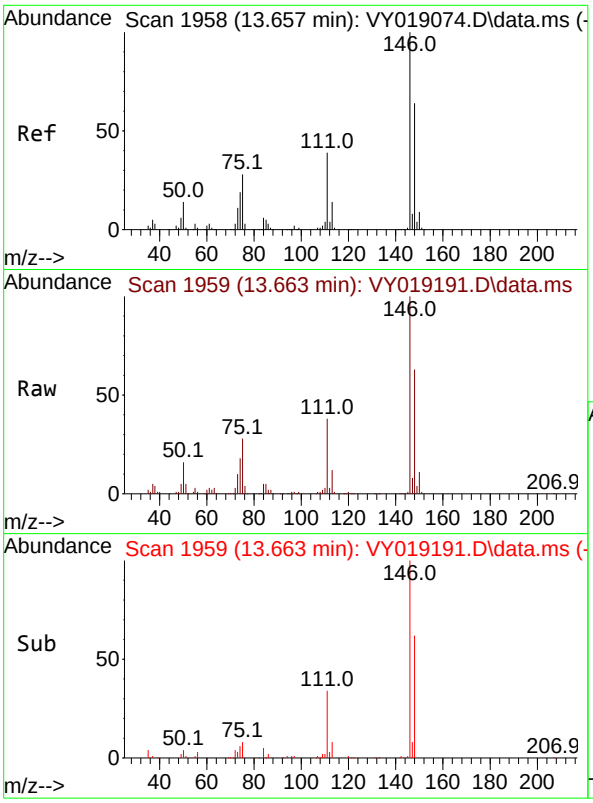


#90
Hexachloroethane
Concen: 47.279 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:117 Resp: 60985

Ion	Ratio	Lower	Upper
117	100		
201	73.8	37.4	112.2

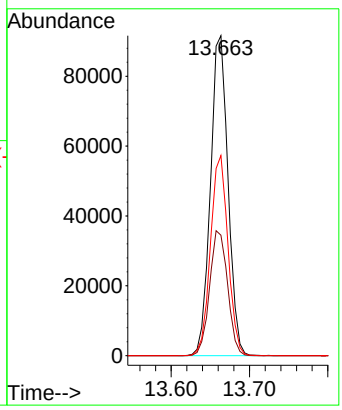




#91
1,2-Dichlorobenzene
Concen: 47.106 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:146 Resp: 14259

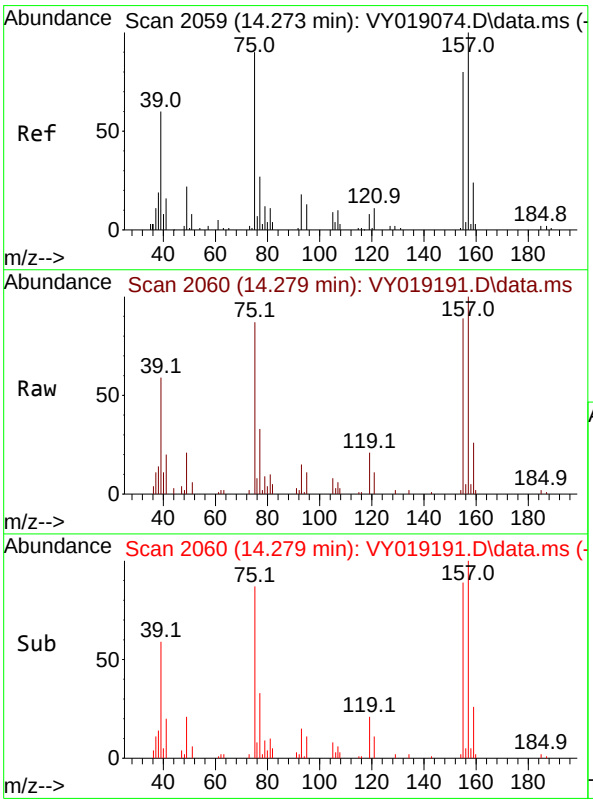
Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.9	59.7
148	62.4	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

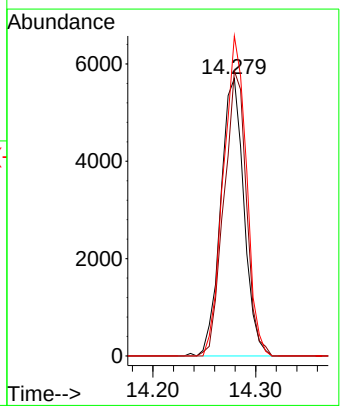
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

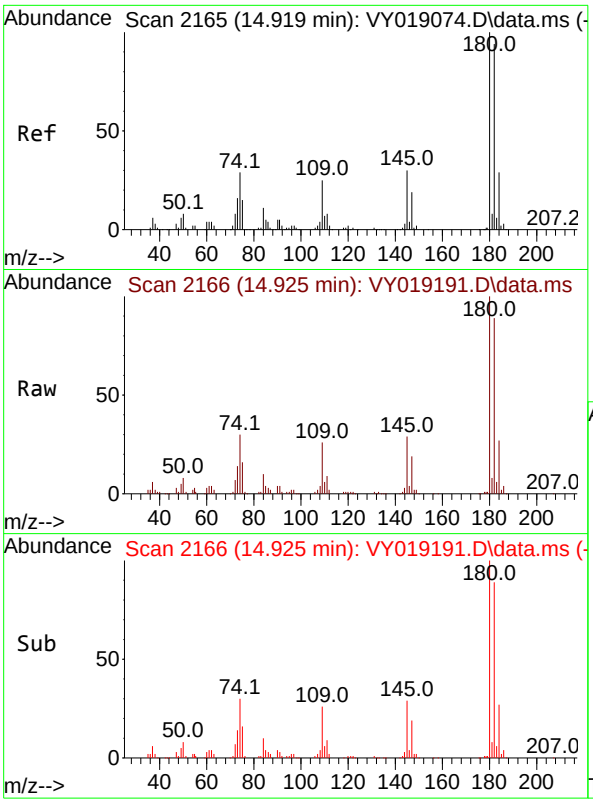


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.087 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion: 75 Resp: 8962

Ion	Ratio	Lower	Upper
75	100		
155	98.9	48.6	145.8
157	113.7	62.7	188.2

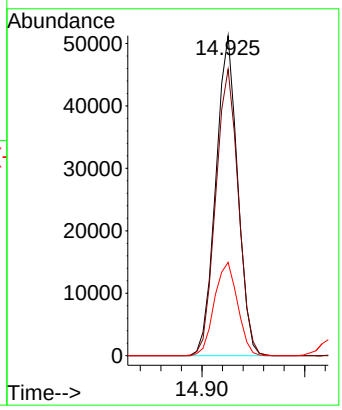




#93
1,2,4-Trichlorobenzene
Concen: 44.213 ug/l
RT: 14.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:180 Resp: 7547

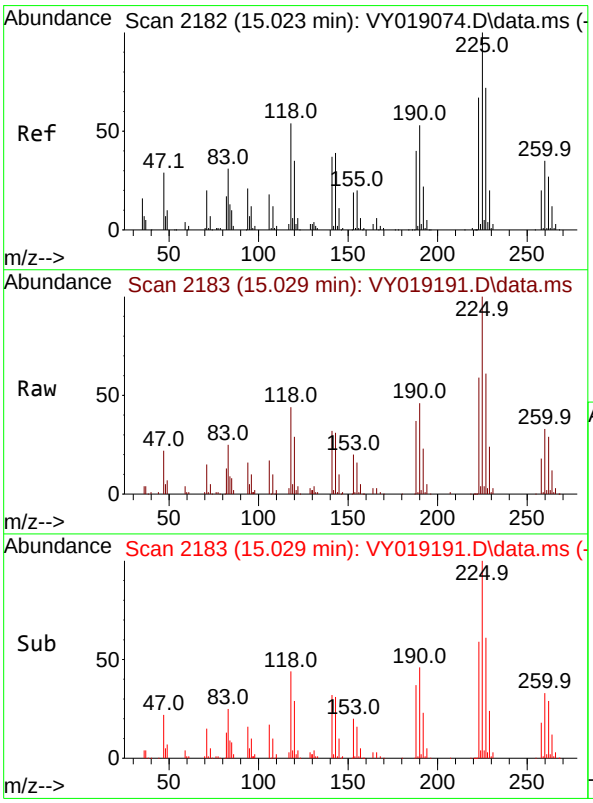
Ion	Ratio	Lower	Upper
180	100		
182	92.7	47.9	143.8
145	30.9	14.2	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

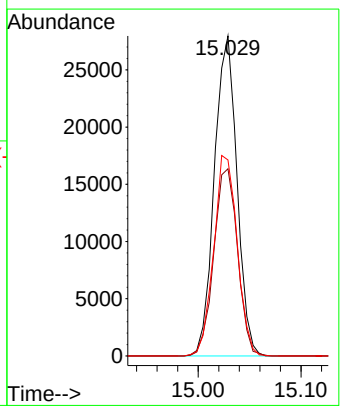
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

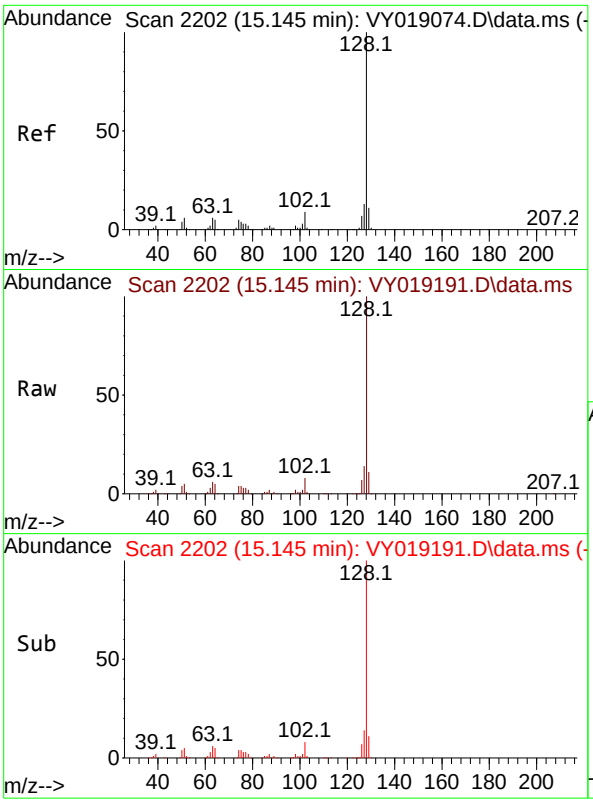


#94
Hexachlorobutadiene
Concen: 47.939 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:225 Resp: 42627

Ion	Ratio	Lower	Upper
225	100		
223	61.4	30.4	91.2
227	65.2	31.9	95.9

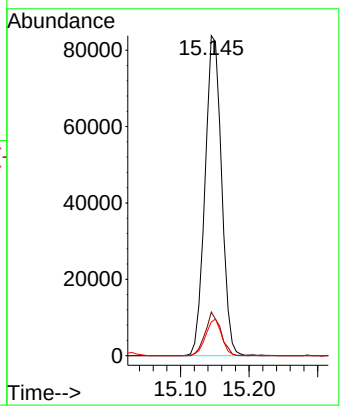




#95
Naphthalene
Concen: 46.287 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:128 Resp: 14102

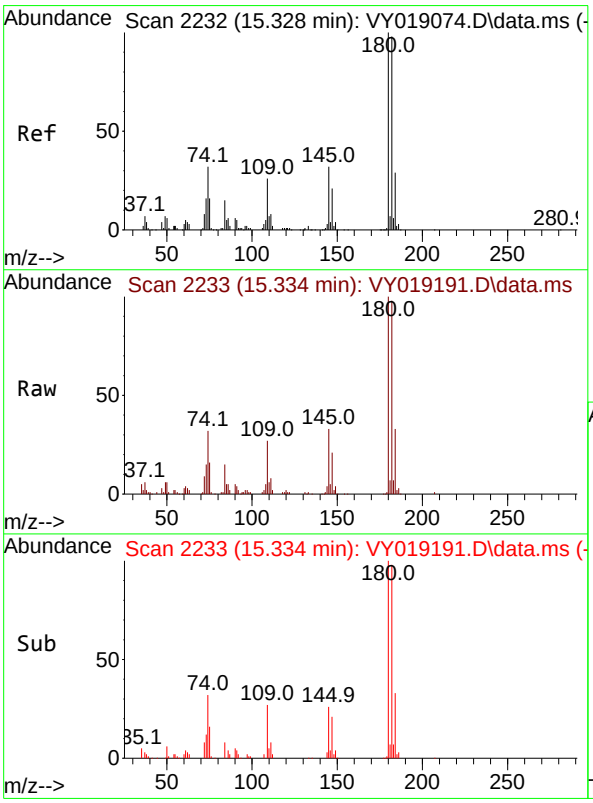
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	11.0	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

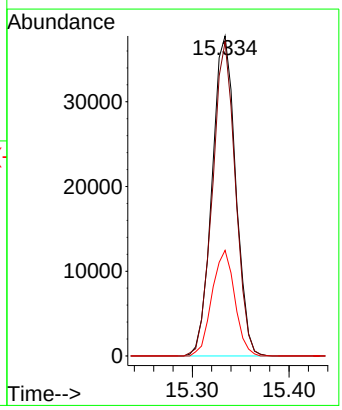
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024



#96
1,2,3-Trichlorobenzene
Concen: 44.296 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY019191.D
Acq: 22 Aug 2024 01:25

Tgt Ion:180 Resp: 63779

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.6	142.9
145	32.0	15.4	46.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019191.D
Acq On : 22 Aug 2024 01:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 22 03:46:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	101	0.01
2	T	Dichlorodifluoromethane	0.367	0.345	6.0	92	0.00
3	P	Chloromethane	0.661	0.558	15.6	87	0.00
4	C	Vinyl Chloride	0.817	0.674	17.5#	84	0.00
5	T	Bromomethane	0.593	0.465	21.6	88	0.00
6	T	Chloroethane	0.530	0.433	18.3	85	0.00
7	T	Trichlorofluoromethane	1.235	1.013	18.0	84	0.00
8	T	Diethyl Ether	0.267	0.248	7.1	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.549	0.505	8.0	96	0.01
10	T	Methyl Iodide	0.538	0.564	-4.8	94	0.01
11	T	Tert butyl alcohol	0.056	0.045	19.6	106	-0.01
12	CM	1,1-Dichloroethene	0.499	0.477	4.4#	99	0.01
13	T	Acrolein	0.042	0.028	33.3#	74	0.01
14	T	Allyl chloride	0.663	0.683	-3.0	103	0.01
15	T	Acrylonitrile	0.109	0.108	0.9	96	0.00
16	T	Acetone	0.093	0.084	9.7	87	0.00
17	T	Carbon Disulfide	1.407	1.345	4.4	96	0.00
18	T	Methyl Acetate	0.285	0.284	0.4	102	0.00
19	T	Methyl tert-butyl Ether	1.209	1.211	-0.2	98	0.02
20	T	Methylene Chloride	0.833	0.570	31.6#	96	0.00
21	T	trans-1,2-Dichloroethene	0.557	0.546	2.0	97	0.00
22	T	Diisopropyl ether	1.518	1.576	-3.8	104	0.01
23	T	Vinyl Acetate	1.202	1.164	3.2	94	0.00
24	P	1,1-Dichloroethane	0.928	0.917	1.2	102	0.00
25	T	2-Butanone	0.150	0.139	7.3	90	0.00
26	T	2,2-Dichloropropane	0.752	0.691	8.1	94	0.01
27	T	cis-1,2-Dichloroethene	0.656	0.633	3.5	97	0.01
28	T	Bromochloromethane	0.389	0.403	-3.6	111	0.01
29	T	Tetrahydrofuran	0.096	0.096	0.0	99	0.01
30	C	Chloroform	1.034	1.028	0.6#	99	0.00
31	T	Cyclohexane	0.807	0.698	13.5	94	0.00
32	T	1,1,1-Trichloroethane	0.909	0.885	2.6	97	0.00
33	S	1,2-Dichloroethane-d4	0.501	0.509	-1.6	108	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35	S	Dibromofluoromethane	0.327	0.292	10.7	94	0.00
36	T	1,1-Dichloropropene	0.449	0.433	3.6	103	0.00
37	T	Ethyl Acetate	0.199	0.201	-1.0	97	0.00
38	T	Carbon Tetrachloride	0.520	0.523	-0.6	102	0.00
39	T	Methylcyclohexane	0.576	0.530	8.0	96	0.00
40	TM	Benzene	1.377	1.341	2.6	101	0.00
41	T	Methacrylonitrile	0.109	0.123	-12.8	108	0.00
42	TM	1,2-Dichloroethane	0.372	0.380	-2.2	104	0.00
43	T	Isopropyl Acetate	0.402	0.406	-1.0	101	0.00
44	TM	Trichloroethene	0.384	0.357	7.0	98	0.00
45	C	1,2-Dichloropropane	0.307	0.291	5.2#	99	0.01
46	T	Dibromomethane	0.199	0.188	5.5	94	0.01
47	T	Bromodichloromethane	0.488	0.485	0.6	102	0.00
48	T	Methyl methacrylate	0.179	0.185	-3.4	102	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019191.D
Acq On : 22 Aug 2024 01:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 22 03:46:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	0.002	0.002	0.0	92	0.00
50	S	Toluene-d8	1.177	1.148	2.5	106	0.00
51	T	4-Methyl-2-Pentanone	0.213	0.219	-2.8	99	0.00
52	CM	Toluene	0.904	0.899	0.6#	104	0.00
53	T	t-1,3-Dichloropropene	0.405	0.405	0.0	100	0.01
54	T	cis-1,3-Dichloropropene	0.487	0.465	4.5	94	0.00
55	T	1,1,2-Trichloroethane	0.256	0.245	4.3	98	0.00
56	T	Ethyl methacrylate	0.335	0.329	1.8	96	0.00
57	T	1,3-Dichloropropane	0.418	0.409	2.2	99	0.00
58	T	2-Chloroethyl Vinyl ether	0.159	0.144	9.4	93	0.00
59	T	2-Hexanone	0.147	0.147	0.0	98	0.00
60	T	Dibromochloromethane	0.349	0.340	2.6	98	0.00
61	T	1,2-Dibromoethane	0.248	0.234	5.6	95	0.00
62	S	4-Bromofluorobenzene	0.401	0.387	3.5	100	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64	T	Tetrachloroethene	0.437	0.421	3.7	104	0.00
65	PM	Chlorobenzene	1.151	1.094	5.0	100	0.00
66	T	1,1,1,2-Tetrachloroethane	0.405	0.390	3.7	100	0.00
67	C	Ethyl Benzene	1.998	1.941	2.9#	101	0.00
68	T	m/p-Xylenes	0.793	0.763	3.8	100	0.00
69	T	o-Xylene	0.734	0.713	2.9	98	0.00
70	T	Styrene	1.252	1.233	1.5	99	0.00
71	P	Bromoform	0.231	0.222	3.9	95	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
73	T	Isopropylbenzene	3.832	3.761	1.9	99	0.00
74	T	N-amyl acetate	0.836	0.851	-1.8	99	0.00
75	P	1,1,2,2-Tetrachloroethane	0.682	0.606	11.1	89	0.00
76	T	1,2,3-Trichloropropane	0.493	0.409	17.0	87	0.00
77	T	Bromobenzene	0.920	0.888	3.5	98	0.00
78	T	n-propylbenzene	4.581	4.343	5.2	96	0.00
79	T	2-Chlorotoluene	2.568	2.501	2.6	98	0.00
80	T	1,3,5-Trimethylbenzene	3.122	2.784	10.8	89	0.00
81	T	trans-1,4-Dichloro-2-butene	0.200	0.183	8.5	90	0.00
82	T	4-Chlorotoluene	2.672	2.393	10.4	91	0.00
83	T	tert-Butylbenzene	2.883	2.572	10.8	90	0.00
84	T	1,2,4-Trimethylbenzene	3.112	2.789	10.4	90	0.00
85	T	sec-Butylbenzene	4.201	3.737	11.0	90	0.00
86	T	p-Isopropyltoluene	3.451	3.230	6.4	93	0.00
87	T	1,3-Dichlorobenzene	1.815	1.697	6.5	95	0.00
88	T	1,4-Dichlorobenzene	1.804	1.676	7.1	95	0.00
89	T	n-Butylbenzene	3.146	2.876	8.6	90	0.00
90	T	Hexachloroethane	0.680	0.643	5.4	94	0.00
91	T	1,2-Dichlorobenzene	1.596	1.504	5.8	95	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.100	0.095	5.0	93	0.00
93	T	1,2,4-Trichlorobenzene	0.900	0.796	11.6	86	0.00
94	T	Hexachlorobutadiene	0.469	0.450	4.1	92	0.00
95	T	Naphthalene	1.607	1.487	7.5	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019191.D
Acq On : 22 Aug 2024 01:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 22 03:46:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	0.759	0.673	11.3	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019191.D
Acq On : 22 Aug 2024 01:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 22 03:46:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	101	0.01
2	T	Dichlorodifluoromethane	50.000	47.057	5.9	92	0.00
3	P	Chloromethane	50.000	42.162	15.7	87	0.00
4	C	Vinyl Chloride	50.000	41.283	17.4#	84	0.00
5	T	Bromomethane	50.000	46.175	7.7	88	0.00
6	T	Chloroethane	50.000	40.920	18.2	85	0.00
7	T	Trichlorofluoromethane	50.000	41.011	18.0	84	0.00
8	T	Diethyl Ether	50.000	46.525	7.0	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	46.011	8.0	96	0.01
10	T	Methyl Iodide	50.000	52.449	-4.9	94	0.01
11	T	Tert butyl alcohol	250.000	266.517	-6.6	106	-0.01
12	CM	1,1-Dichloroethene	50.000	47.789	4.4#	99	0.01
13	T	Acrolein	250.000	180.429	27.8#	74	0.01
14	T	Allyl chloride	50.000	51.486	-3.0	103	0.01
15	T	Acrylonitrile	250.000	248.340	0.7	96	0.00
16	T	Acetone	250.000	226.976	9.2	87	0.00
17	T	Carbon Disulfide	50.000	47.823	4.4	96	0.00
18	T	Methyl Acetate	50.000	49.718	0.6	102	0.00
19	T	Methyl tert-butyl Ether	50.000	50.093	-0.2	98	0.02
20	T	Methylene Chloride	50.000	49.182	1.6	96	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.952	2.1	97	0.00
22	T	Diisopropyl ether	50.000	51.898	-3.8	104	0.01
23	T	Vinyl Acetate	250.000	242.055	3.2	94	0.00
24	P	1,1-Dichloroethane	50.000	49.383	1.2	102	0.00
25	T	2-Butanone	250.000	232.016	7.2	90	0.00
26	T	2,2-Dichloropropane	50.000	45.986	8.0	94	0.01
27	T	cis-1,2-Dichloroethene	50.000	48.298	3.4	97	0.01
28	T	Bromochloromethane	50.000	51.683	-3.4	111	0.01
29	T	Tetrahydrofuran	250.000	249.154	0.3	99	0.01
30	C	Chloroform	50.000	49.677	0.6#	99	0.00
31	T	Cyclohexane	50.000	48.570	2.9	94	0.00
32	T	1,1,1-Trichloroethane	50.000	48.684	2.6	97	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.799	-1.6	108	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35	S	Dibromofluoromethane	50.000	44.619	10.8	94	0.00
36	T	1,1-Dichloropropene	50.000	48.258	3.5	103	0.00
37	T	Ethyl Acetate	50.000	50.620	-1.2	97	0.00
38	T	Carbon Tetrachloride	50.000	50.216	-0.4	102	0.00
39	T	Methylcyclohexane	50.000	45.958	8.1	96	0.00
40	TM	Benzene	50.000	48.680	2.6	101	0.00
41	T	Methacrylonitrile	50.000	56.836	-13.7	108	0.00
42	TM	1,2-Dichloroethane	50.000	51.131	-2.3	104	0.00
43	T	Isopropyl Acetate	50.000	50.447	-0.9	101	0.00
44	TM	Trichloroethene	50.000	46.419	7.2	98	0.00
45	C	1,2-Dichloropropane	50.000	47.367	5.3#	99	0.01
46	T	Dibromomethane	50.000	47.238	5.5	94	0.01
47	T	Bromodichloromethane	50.000	49.676	0.6	102	0.00
48	T	Methyl methacrylate	50.000	51.525	-3.0	102	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019191.D
Acq On : 22 Aug 2024 01:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 22 03:46:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	904.612	9.5	92	0.00
50	S	Toluene-d8	50.000	48.803	2.4	106	0.00
51	T	4-Methyl-2-Pentanone	250.000	256.524	-2.6	99	0.00
52	CM	Toluene	50.000	49.737	0.5#	104	0.00
53	T	t-1,3-Dichloropropene	50.000	49.957	0.1	100	0.01
54	T	cis-1,3-Dichloropropene	50.000	47.706	4.6	94	0.00
55	T	1,1,2-Trichloroethane	50.000	47.901	4.2	98	0.00
56	T	Ethyl methacrylate	50.000	49.015	2.0	96	0.00
57	T	1,3-Dichloropropane	50.000	48.929	2.1	99	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	225.822	9.7	93	0.00
59	T	2-Hexanone	250.000	251.400	-0.6	98	0.00
60	T	Dibromochloromethane	50.000	48.777	2.4	98	0.00
61	T	1,2-Dibromoethane	50.000	47.210	5.6	95	0.00
62	S	4-Bromofluorobenzene	50.000	48.201	3.6	100	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
64	T	Tetrachloroethene	50.000	48.129	3.7	104	0.00
65	PM	Chlorobenzene	50.000	47.497	5.0	100	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.159	3.7	100	0.00
67	C	Ethyl Benzene	50.000	48.576	2.8#	101	0.00
68	T	m/p-Xylenes	100.000	96.221	3.8	100	0.00
69	T	o-Xylene	50.000	48.551	2.9	98	0.00
70	T	Styrene	50.000	49.221	1.6	99	0.00
71	P	Bromoform	50.000	47.874	4.3	95	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	101	0.00
73	T	Isopropylbenzene	50.000	49.067	1.9	99	0.00
74	T	N-amyl acetate	50.000	50.946	-1.9	99	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	44.410	11.2	89	0.00
76	T	1,2,3-Trichloropropane	50.000	41.498	17.0	87	0.00
77	T	Bromobenzene	50.000	48.239	3.5	98	0.00
78	T	n-propylbenzene	50.000	47.398	5.2	96	0.00
79	T	2-Chlorotoluene	50.000	48.681	2.6	98	0.00
80	T	1,3,5-Trimethylbenzene	50.000	44.593	10.8	89	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.767	8.5	90	0.00
82	T	4-Chlorotoluene	50.000	44.777	10.4	91	0.00
83	T	tert-Butylbenzene	50.000	44.603	10.8	90	0.00
84	T	1,2,4-Trimethylbenzene	50.000	44.821	10.4	90	0.00
85	T	sec-Butylbenzene	50.000	44.477	11.0	90	0.00
86	T	p-Isopropyltoluene	50.000	46.805	6.4	93	0.00
87	T	1,3-Dichlorobenzene	50.000	46.750	6.5	95	0.00
88	T	1,4-Dichlorobenzene	50.000	46.459	7.1	95	0.00
89	T	n-Butylbenzene	50.000	45.702	8.6	90	0.00
90	T	Hexachloroethane	50.000	47.279	5.4	94	0.00
91	T	1,2-Dichlorobenzene	50.000	47.106	5.8	95	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.087	5.8	93	0.00
93	T	1,2,4-Trichlorobenzene	50.000	44.213	11.6	86	0.00
94	T	Hexachlorobutadiene	50.000	47.939	4.1	92	0.00
95	T	Naphthalene	50.000	46.287	7.4	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019191.D
Acq On : 22 Aug 2024 01:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 22 03:46:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	44.296	11.4	84	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.: P3671 SAS No.: P3671 SDG No.: P3671

Instrument ID: MSVOA_Y Calibration Date/Time: 08/22/2024 11:22

Lab File ID: VY019211.D Init. Calib. Date(s): 08/15/2024 08/15/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 17:24 19:50

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.367	0.350		-4.63	20
Chloromethane	0.661	0.578	0.1	-12.56	20
Vinyl Chloride	0.817	0.751		-8.08	20
Bromomethane	0.593	0.592		-0.17	20
Chloroethane	0.530	0.531		0.19	20
1,1,2-Trichlorotrifluoroethane	0.549	0.532		-3.1	20
1,1-Dichloroethene	0.499	0.515		3.21	20
Acetone	0.093	0.102		9.68	20
Carbon Disulfide	1.407	1.408		0.07	20
Methyl tert-butyl Ether	1.209	1.250		3.39	20
Methylene Chloride	0.833	0.592		-28.93	20
trans-1,2-Dichloroethene	0.557	0.578		3.77	20
1,1-Dichloroethane	0.928	0.957	0.1	3.13	20
Cyclohexane	0.807	0.752		-6.82	20
2-Butanone	0.150	0.150		0	20
Carbon Tetrachloride	0.520	0.577		10.96	20
cis-1,2-Dichloroethene	0.656	0.700		6.71	20
Chloroform	1.034	1.109		7.25	20
1,1,1-Trichloroethane	0.909	0.985		8.36	20
Methylcyclohexane	0.576	0.594		3.13	20
Benzene	1.377	1.495		8.57	20
1,2-Dichloroethane	0.372	0.394		5.91	20
Trichloroethene	0.384	0.408		6.25	20
Bromodichloromethane	0.488	0.528		8.2	20
Toluene	0.904	1.001		10.73	20
1,1,2-Trichloroethane	0.256	0.276		7.81	20
Dibromochloromethane	0.349	0.385		10.31	20
Tetrachloroethene	0.437	0.462		5.72	20
Chlorobenzene	1.151	1.225	0.3	6.43	20
Ethyl Benzene	1.998	2.184		9.31	20
m/p-Xylenes	0.793	0.893		12.61	20
o-Xylene	0.734	0.817		11.31	20
Isopropylbenzene	3.832	4.262		11.22	20
1,4-Dichlorobenzene	1.804	1.946		7.87	20
1,2-Dichlorobenzene	1.596	1.720		7.77	20
1,2-Dichloroethane-d4	0.501	0.527		5.19	20
Dibromofluoromethane	0.327	0.352		7.64	20
Toluene-d8	1.177	1.287		9.35	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3671 SAS No.: P3671 SDG No.: P3671

Instrument ID: MSVOA_Y Calibration Date/Time: 08/22/2024 11:22

Lab File ID: VY019211.D Init. Calib. Date(s): 08/15/2024 08/15/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 17:24 19:50

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
4-Bromofluorobenzene	0.401	0.430		7.23	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_Y\Data\VY082224\
Data File : VY019211.D
Acq On : 22 Aug 2024 11:22
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 23 01:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	109345	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	172965	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	153558	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	77851	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	57594	52.545	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.080%			
35) Dibromofluoromethane	7.628	113	60926	53.872	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.740%			
50) Toluene-d8	10.103	98	222640	54.704	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 109.400%			
62) 4-Bromofluorobenzene	12.408	95	74455	53.664	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 107.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	38277	47.712	ug/l	95
3) Chloromethane	2.068	50	63216	43.717	ug/l	96
4) Vinyl Chloride	2.202	62	82088	45.958	ug/l	98
5) Bromomethane	2.592	94	64719	60.596	ug/l	97
6) Chloroethane	2.733	64	58097	51.302	ug/l	95
7) Trichlorofluoromethane	3.050	101	119246	44.158	ug/l	97
8) Diethyl Ether	3.452	74	28129	48.258	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.806	101	58142	48.430	ug/l	96
10) Methyl Iodide	3.995	142	66716	56.696	ug/l	95
11) Tert butyl alcohol	4.842	59	22328	236.885	ug/l #	80
12) 1,1-Dichloroethene	3.781	96	56319	51.635	ug/l	93
13) Acrolein	3.647	56	14958	175.858	ug/l	98
14) Allyl chloride	4.373	41	72360	49.898	ug/l	91
15) Acrylonitrile	5.043	53	60019	251.648	ug/l	97
16) Acetone	3.860	43	55587	273.458	ug/l #	87
17) Carbon Disulfide	4.098	76	153946	50.041	ug/l	100
18) Methyl Acetate	4.373	43	29503	47.290	ug/l	98
19) Methyl tert-butyl Ether	5.110	73	136641	51.673	ug/l	95
20) Methylene Chloride	4.610	84	64730	51.602	ug/l	98
21) trans-1,2-Dichloroethene	5.104	96	63215	51.877	ug/l	96
22) Diisopropyl ether	6.013	45	179478	54.063	ug/l	93
23) Vinyl Acetate	5.945	43	708196	269.450	ug/l	97
24) 1,1-Dichloroethane	5.903	63	104613	51.528	ug/l	99
25) 2-Butanone	6.878	43	81918	250.232	ug/l	91
26) 2,2-Dichloropropane	6.878	77	87961	53.503	ug/l	99
27) cis-1,2-Dichloroethene	6.878	96	76511	53.353	ug/l	100
28) Bromochloromethane	7.238	49	43325	50.873	ug/l	96
29) Tetrahydrofuran	7.250	42	51555	244.986	ug/l	93
30) Chloroform	7.415	83	121259	53.601	ug/l	96
31) Cyclohexane	7.689	56	82195	52.651	ug/l	99
32) 1,1,1-Trichloroethane	7.610	97	107654	54.150	ug/l	99
36) 1,1-Dichloropropene	7.823	75	80284	51.696	ug/l	99
37) Ethyl Acetate	6.970	43	35395	51.442	ug/l	98
38) Carbon Tetrachloride	7.811	117	99859	55.485	ug/l	93
39) Methylcyclohexane	9.103	83	102747	51.556	ug/l	99
40) Benzene	8.073	78	258656	54.306	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019211.D
Acq On : 22 Aug 2024 11:22
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 23 01:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.214	41	19877m	52.928	ug/l		
42) 1,2-Dichloroethane	8.152	62	68076	52.928	ug/l		99
43) Isopropyl Acetate	8.183	43	70176	50.432	ug/l	#	82
44) Trichloroethene	8.860	130	70568	53.099	ug/l		100
45) 1,2-Dichloropropane	9.134	63	56083	52.849	ug/l		99
46) Dibromomethane	9.225	93	36274	52.702	ug/l		98
47) Bromodichloromethane	9.420	83	91253	54.039	ug/l		97
48) Methyl methacrylate	9.213	41	31816	51.304	ug/l	#	89
49) 1,4-Dioxane	9.219	88	8663	1039.019	ug/l	#	97
51) 4-Methyl-2-Pentanone	10.000	43	184695	250.076	ug/l		95
52) Toluene	10.170	92	173055	55.351	ug/l		97
53) t-1,3-Dichloropropene	10.390	75	77129	55.061	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	92763	55.064	ug/l	#	88
55) 1,1,2-Trichloroethane	10.573	97	47702	53.836	ug/l		95
56) Ethyl methacrylate	10.439	69	62900	54.235	ug/l	#	90
57) 1,3-Dichloropropane	10.719	76	77377	53.570	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	139575	253.684	ug/l		95
59) 2-Hexanone	10.762	43	128755	253.753	ug/l		93
60) Dibromochloromethane	10.914	129	66550	55.145	ug/l		98
61) 1,2-Dibromoethane	11.018	107	45140	52.709	ug/l		99
64) Tetrachloroethene	10.646	164	70981	52.883	ug/l		97
65) Chlorobenzene	11.444	112	188064	53.188	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	69489	55.884	ug/l		98
67) Ethyl Benzene	11.518	91	335321	54.639	ug/l		100
68) m/p-Xylenes	11.627	106	274227	112.613	ug/l		99
69) o-Xylene	11.957	106	125450	55.631	ug/l		99
70) Styrene	11.969	104	217344	56.519	ug/l		97
71) Bromoform	12.133	173	39459	55.513	ug/l	#	99
73) Isopropylbenzene	12.255	105	331796	55.606	ug/l		99
74) N-amyl acetate	12.072	43	65827	50.592	ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.511	83	52771	49.677	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	34101m	44.417	ug/l		
77) Bromobenzene	12.536	156	77577	54.136	ug/l		92
78) n-propylbenzene	12.597	91	389291	54.576	ug/l		99
79) 2-Chlorotoluene	12.682	91	217061	54.278	ug/l		98
80) 1,3,5-Trimethylbenzene	12.737	105	270494	55.646	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	16151	51.954	ug/l		88
82) 4-Chlorotoluene	12.780	91	225776	54.265	ug/l		98
83) tert-Butylbenzene	12.999	119	242852	54.099	ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	262992	54.284	ug/l		98
85) sec-Butylbenzene	13.176	105	354427	54.180	ug/l		98
86) p-Isopropyltoluene	13.292	119	299587	55.755	ug/l		97
87) 1,3-Dichlorobenzene	13.292	146	155389	54.984	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	151517	53.936	ug/l		99
89) n-Butylbenzene	13.621	91	259651	53.002	ug/l		98
90) Hexachloroethane	13.883	117	57823	54.597	ug/l		100
91) 1,2-Dichlorobenzene	13.664	146	133935	53.886	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	7649	48.946	ug/l		98
93) 1,2,4-Trichlorobenzene	14.926	180	71522	51.026	ug/l		99
94) Hexachlorobutadiene	15.029	225	39796	54.508	ug/l		97
95) Naphthalene	15.145	128	125109	50.012	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	60834	51.458	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019211.D
Acq On : 22 Aug 2024 11:22
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 23 01:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

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

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

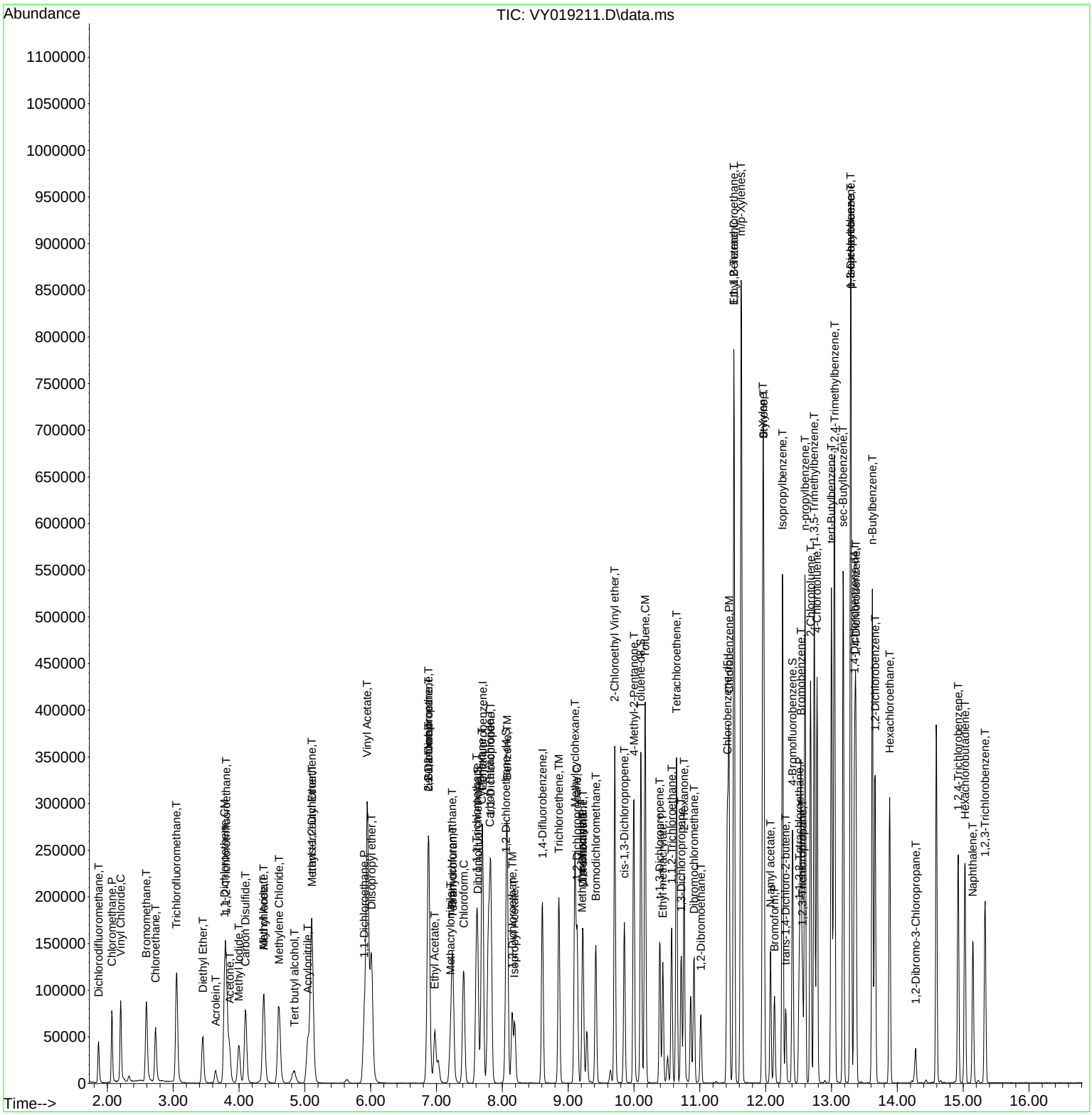
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019211.D
Acq On : 22 Aug 2024 11:22
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

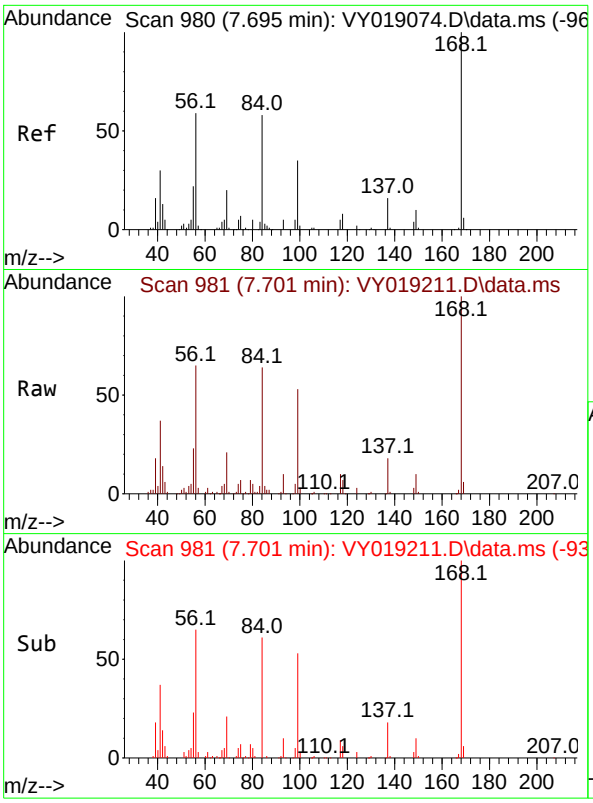
Quant Time: Aug 23 01:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

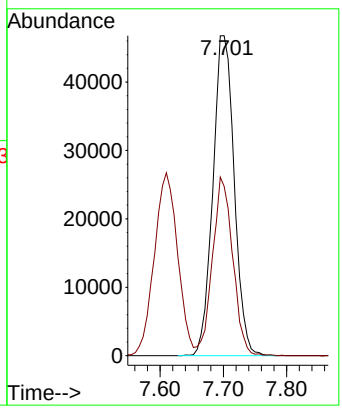
Tgt Ion:168 Resp: 10934

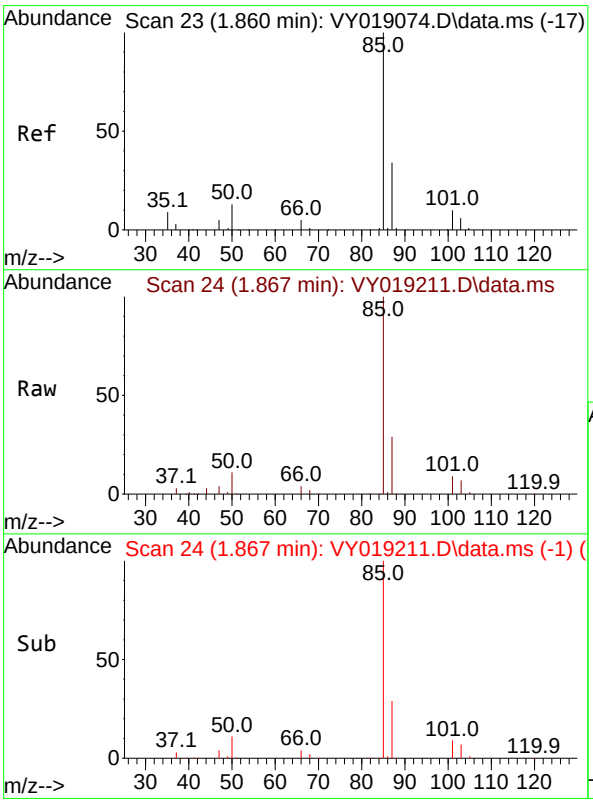
Ion	Ratio	Lower	Upper
168	100		
99	53.0	39.1	58.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

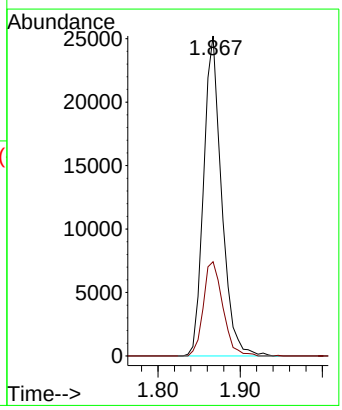


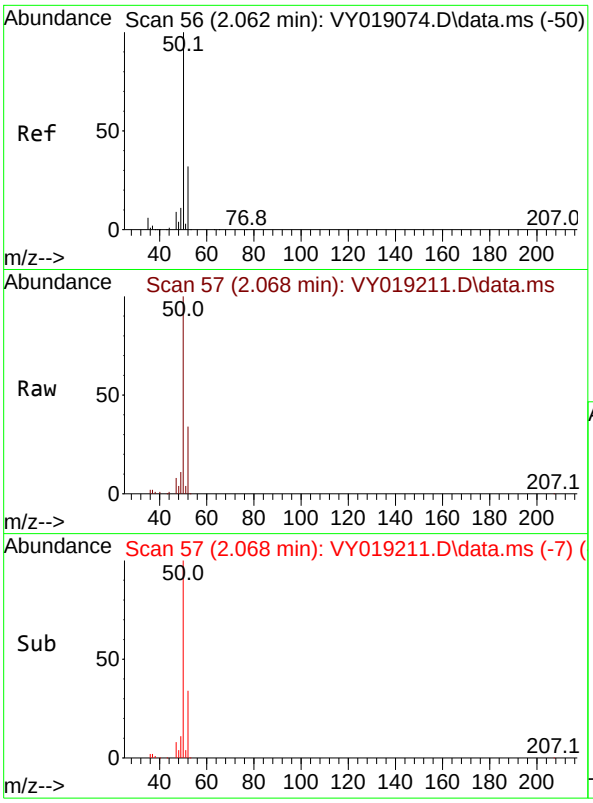


#2
Dichlorodifluoromethane
Concen: 47.712 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 85 Resp: 38277

Ion	Ratio	Lower	Upper
85	100		
87	29.4	16.0	48.0

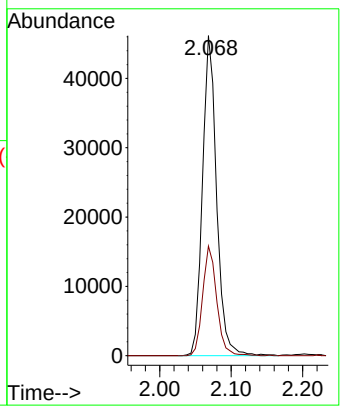




#3
Chloromethane
Concen: 43.717 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 50 Resp: 6321

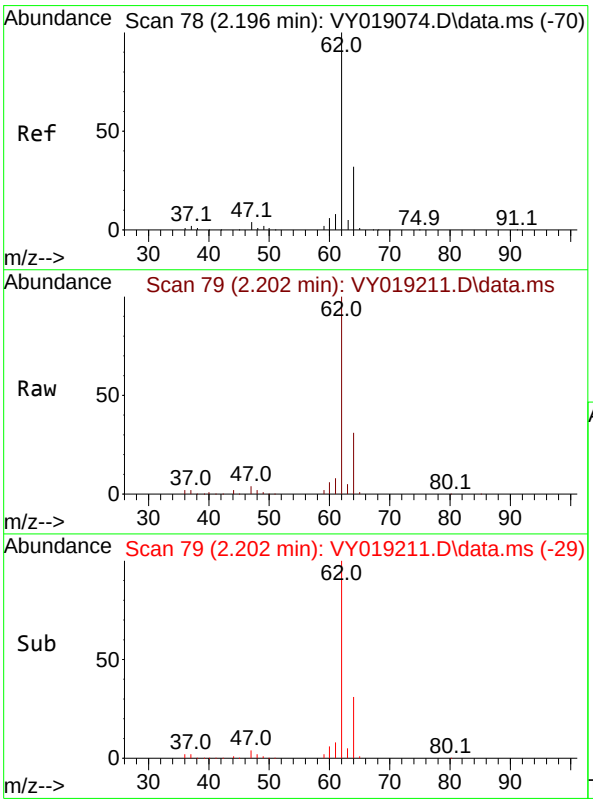
Ion	Ratio	Lower	Upper
50	100		
52	34.3	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

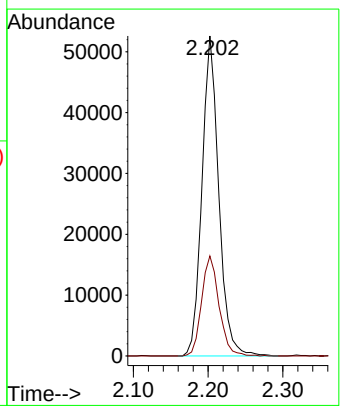
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

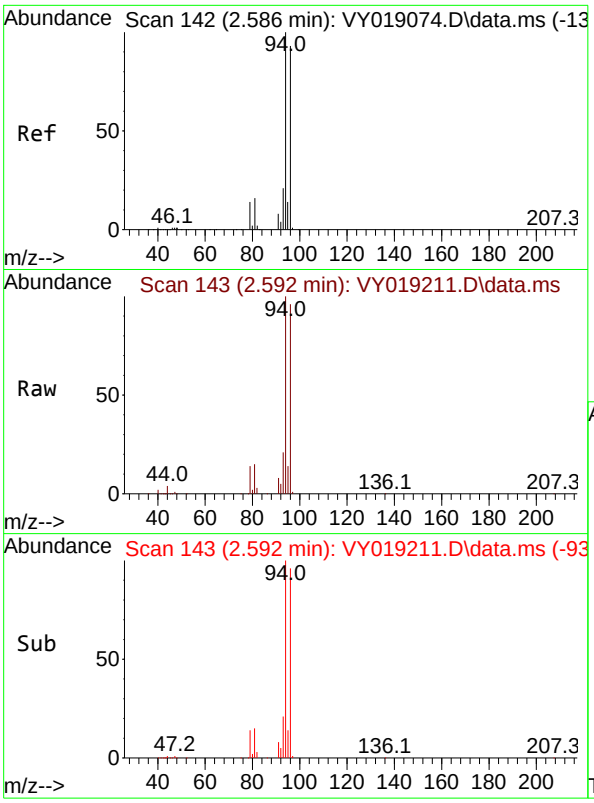


#4
Vinyl Chloride
Concen: 45.958 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 62 Resp: 82088

Ion	Ratio	Lower	Upper
62	100		
64	31.3	26.1	39.1

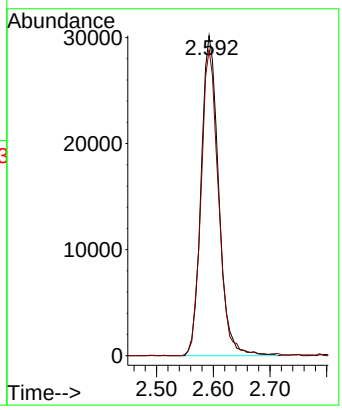




#5
Bromomethane
Concen: 60.596 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 94 Resp: 6471

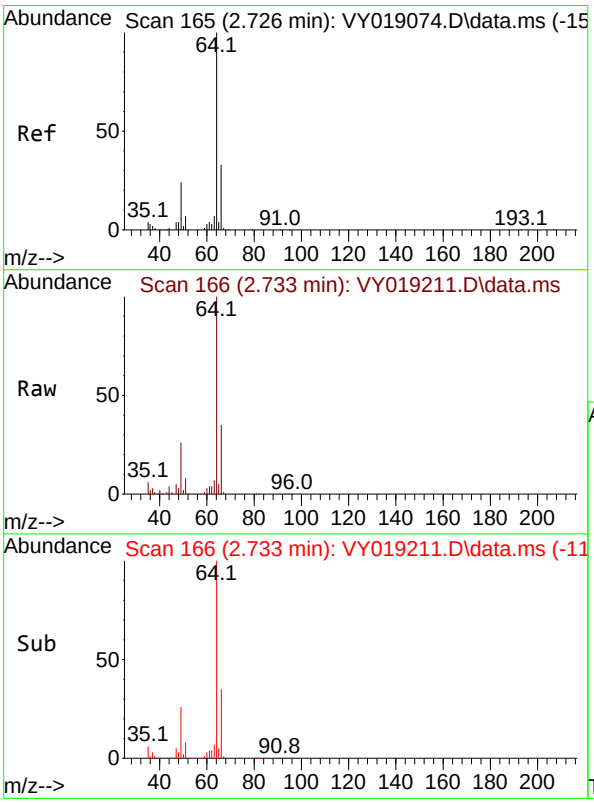
Ion	Ratio	Lower	Upper
94	100		
96	95.5	74.1	111.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

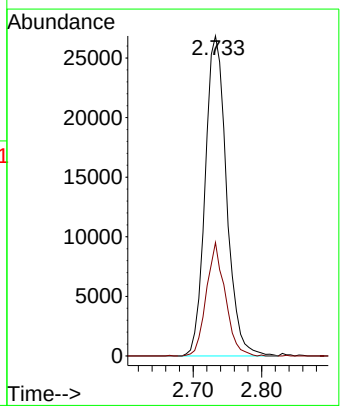
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

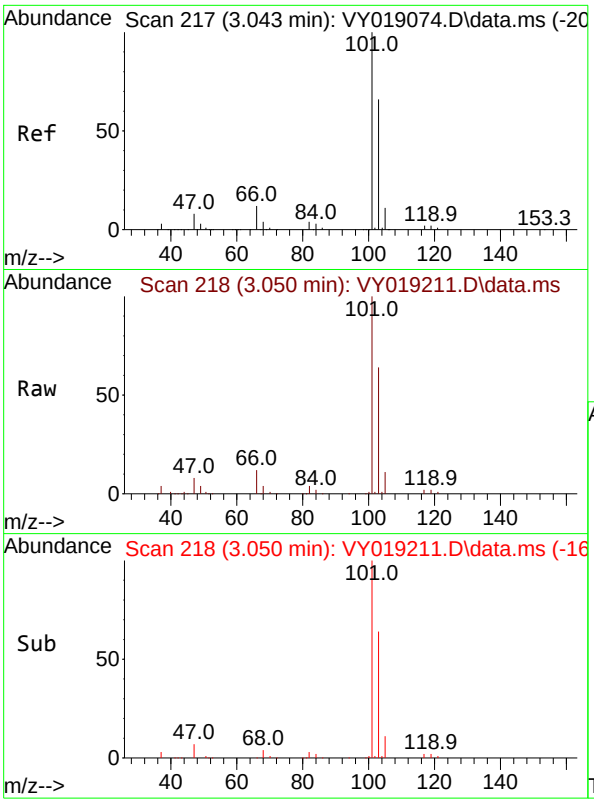


#6
Chloroethane
Concen: 51.302 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.007 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 64 Resp: 58097

Ion	Ratio	Lower	Upper
64	100		
66	35.4	26.1	39.1





#7
Trichlorofluoromethane
Concen: 44.158 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

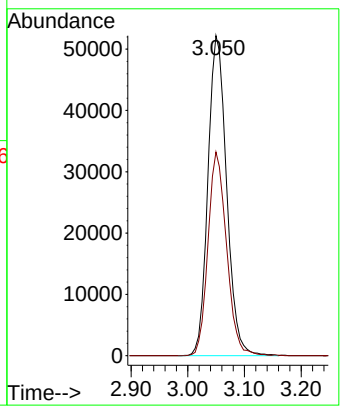
Tgt Ion:101 Resp: 11924

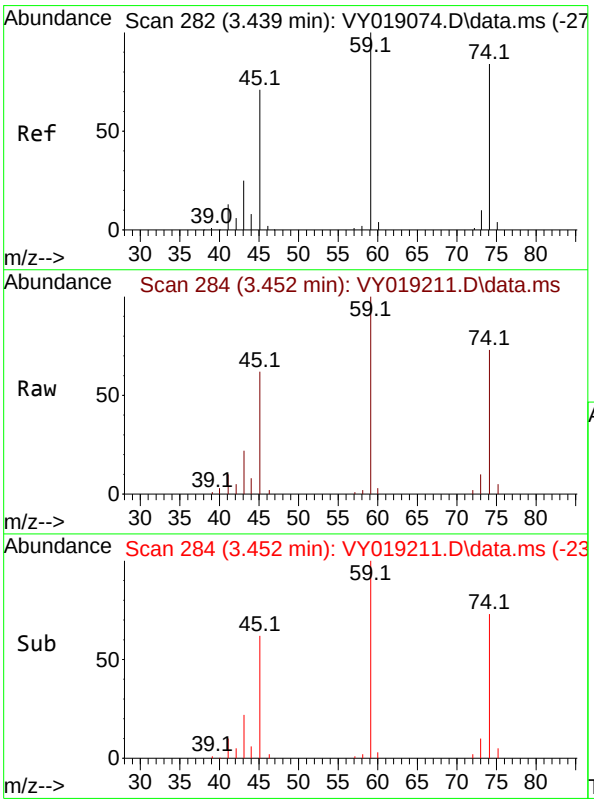
Ion	Ratio	Lower	Upper
101	100		
103	63.6	49.3	73.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

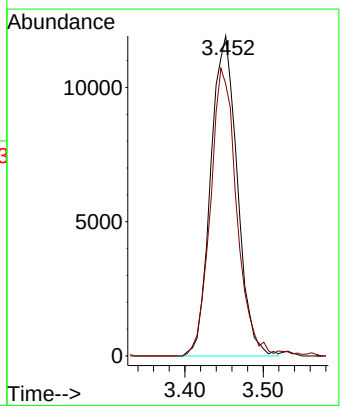


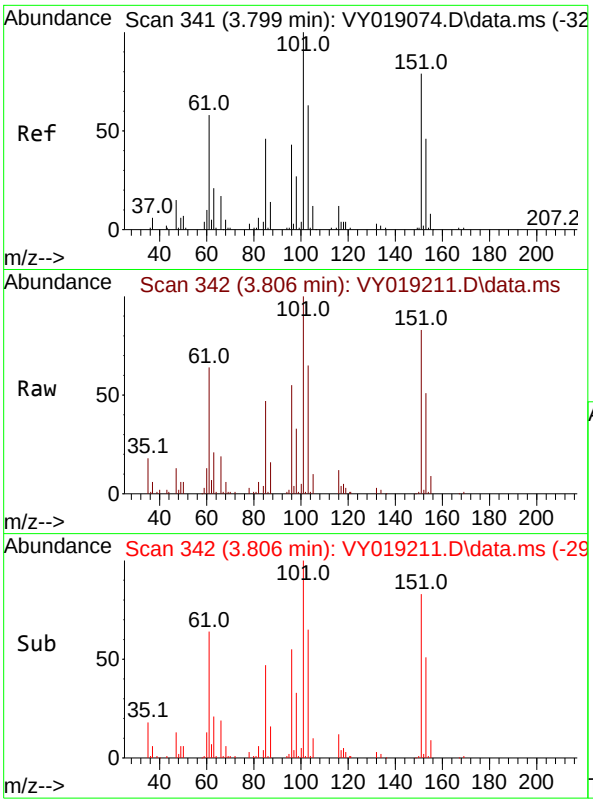


#8
Diethyl Ether
Concen: 48.258 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.013 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 74 Resp: 28129

Ion	Ratio	Lower	Upper
74	100		
45	88.5	41.3	124.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.430 ug/l
RT: 3.806 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

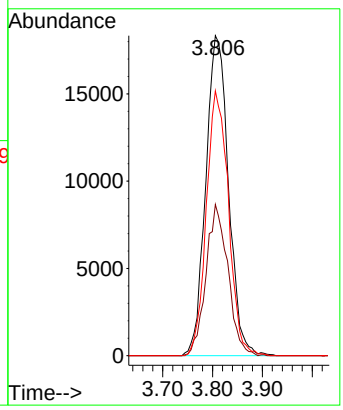
Tgt Ion:101 Resp: 5814

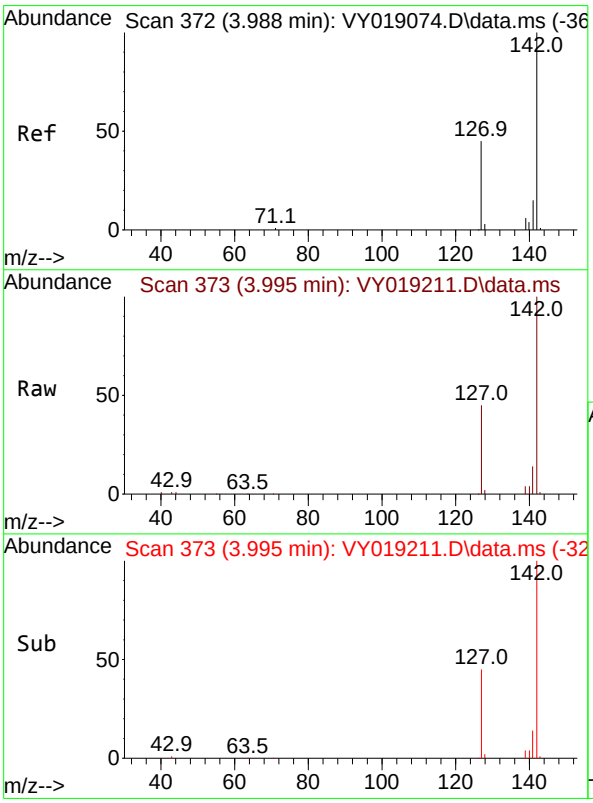
Ion	Ratio	Lower	Upper
101	100		
85	45.5	34.5	51.7
151	80.3	61.7	92.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

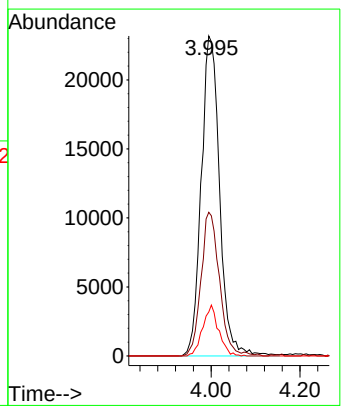


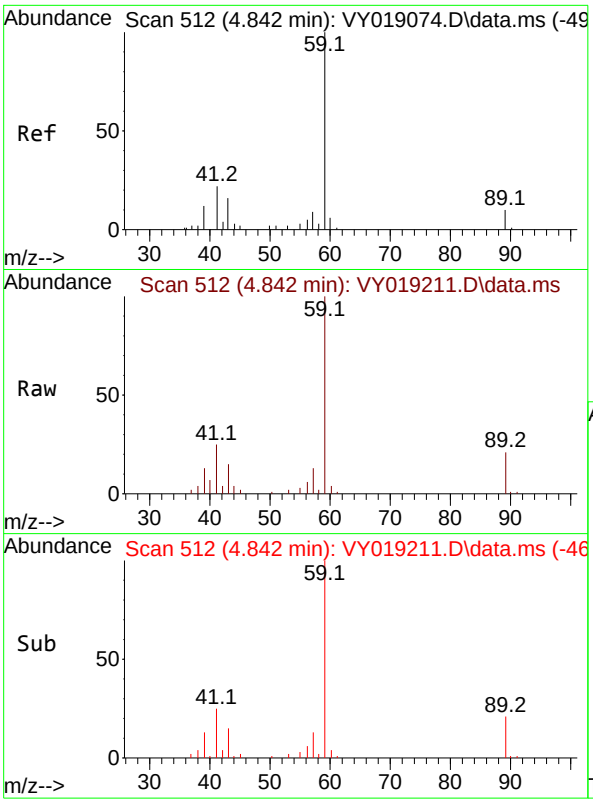


#10
Methyl Iodide
Concen: 56.696 ug/l
RT: 3.995 min Scan# 373
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:142 Resp: 66716

Ion	Ratio	Lower	Upper
142	100		
127	45.2	32.8	49.2
141	13.8	11.4	17.2

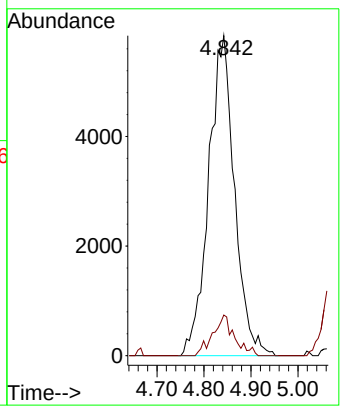




#11
Tert butyl alcohol
Concen: 236.885 ug/l
RT: 4.842 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 59 Resp: 2232

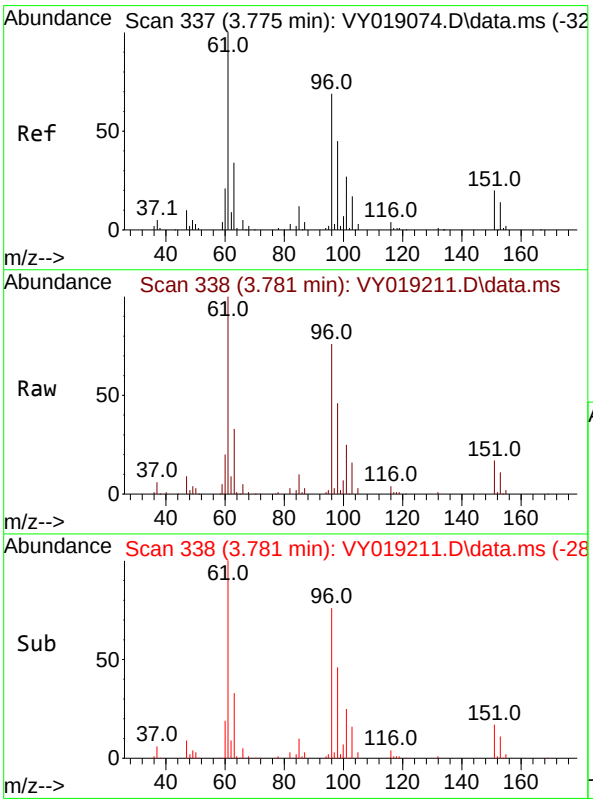
Ion	Ratio	Lower	Upper
59	100		
57	10.5	3.0	4.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

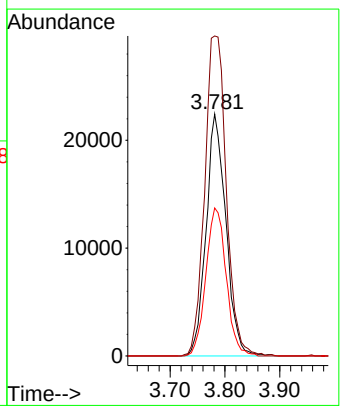
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

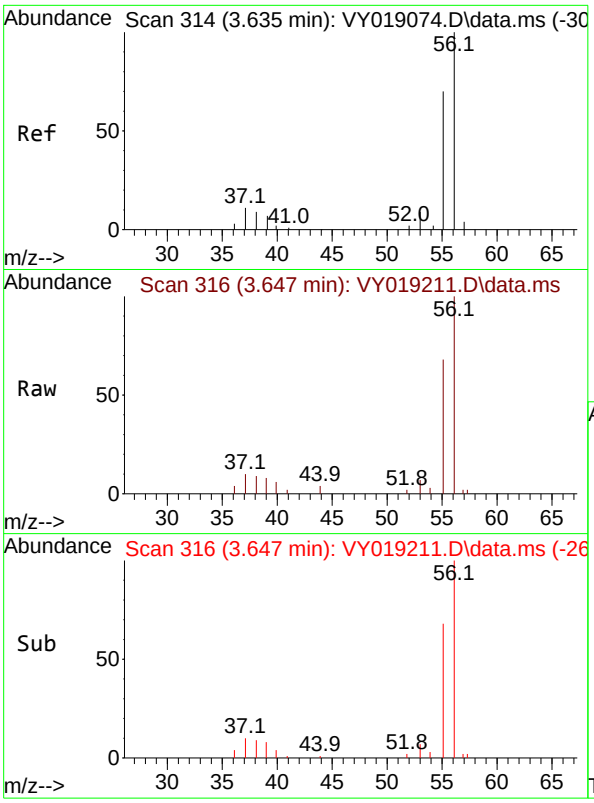


#12
1,1-Dichloroethene
Concen: 51.635 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 96 Resp: 56319

Ion	Ratio	Lower	Upper
96	100		
61	132.3	114.6	171.8
98	61.2	50.8	76.2





#13
Acrolein
Concen: 175.858 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

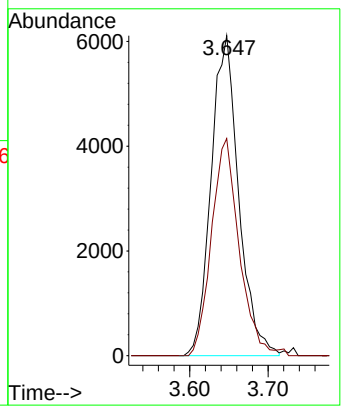
Tgt Ion: 56 Resp: 1495

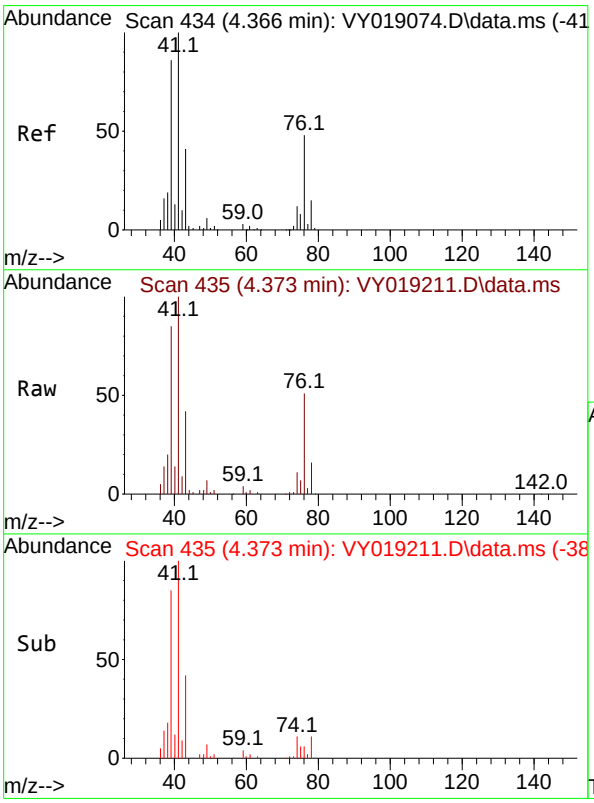
Ion	Ratio	Lower	Upper
56	100		
55	68.4	55.7	83.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

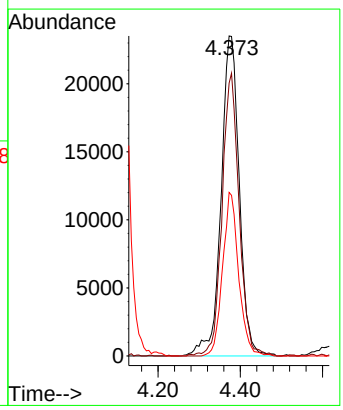


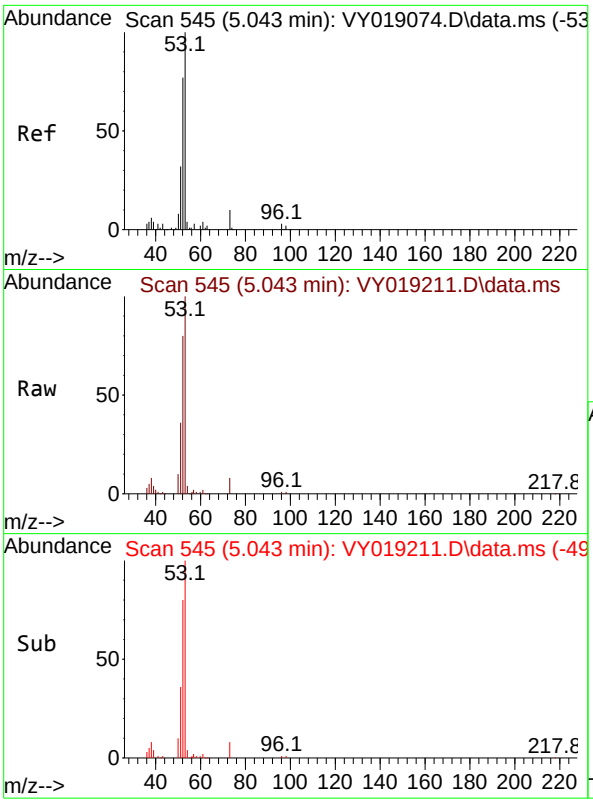


#14
Allyl chloride
Concen: 49.898 ug/l
RT: 4.373 min Scan# 435
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 41 Resp: 72360

Ion	Ratio	Lower	Upper
41	100		
39	82.7	58.3	87.5
76	45.1	39.0	58.6





#15
Acrylonitrile
Concen: 251.648 ug/l
RT: 5.043 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

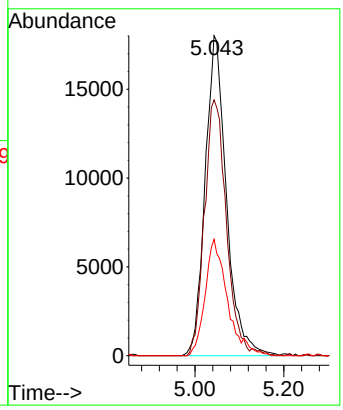
Tgt Ion: 53 Resp: 6001

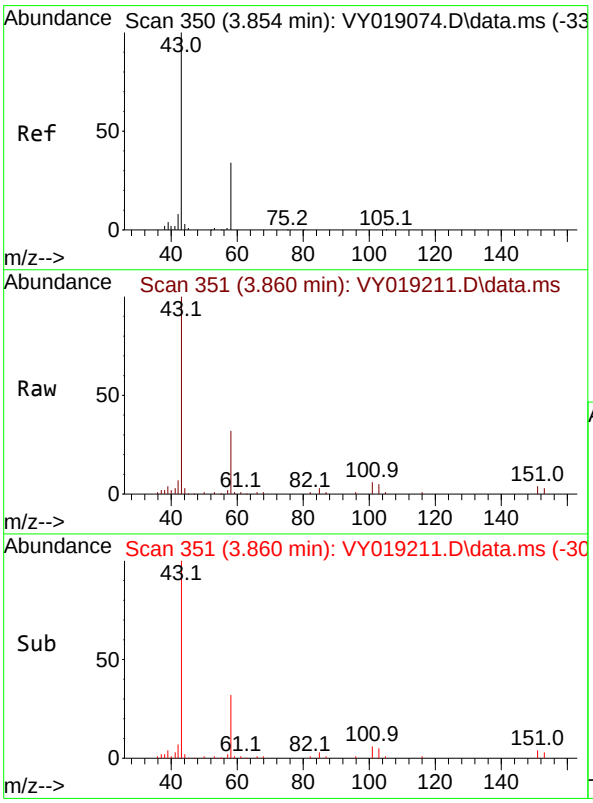
Ion	Ratio	Lower	Upper
53	100		
52	82.6	64.7	97.1
51	37.9	28.4	42.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

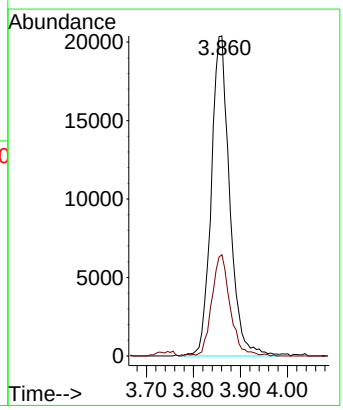


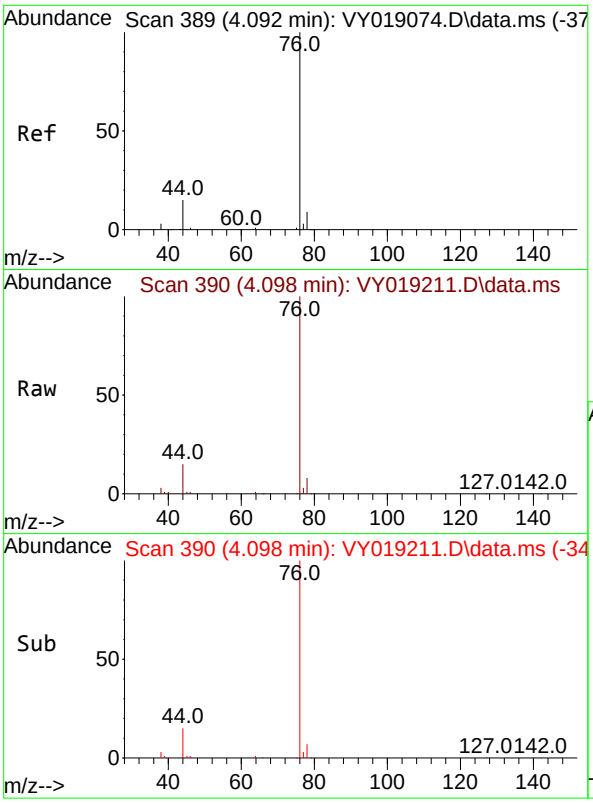


#16
Acetone
Concen: 273.458 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 43 Resp: 55587

Ion	Ratio	Lower	Upper
43	100		
58	31.6	31.7	47.5#





#17
Carbon Disulfide
Concen: 50.041 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

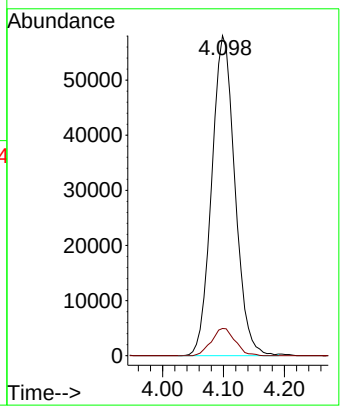
Tgt Ion: 76 Resp: 15394

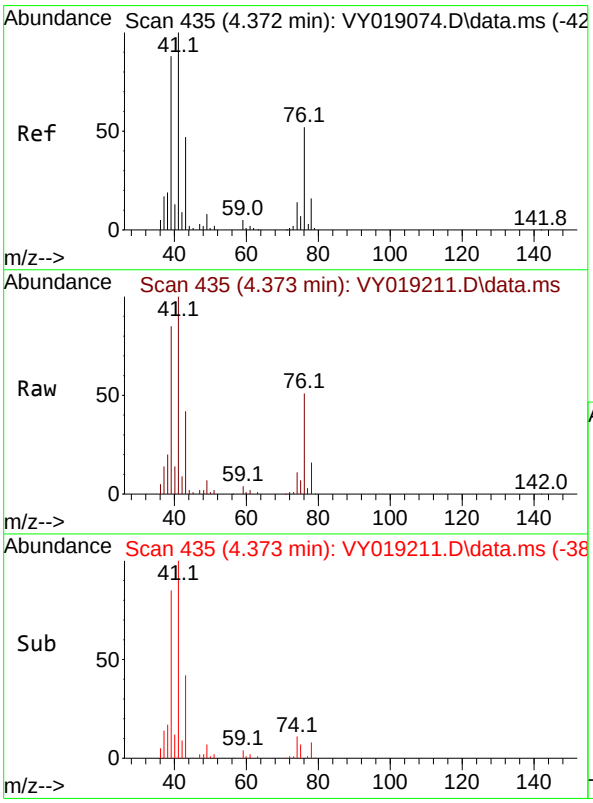
Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.8	10.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

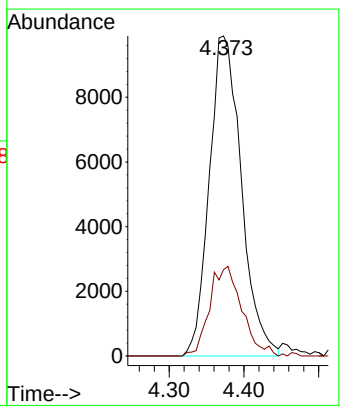


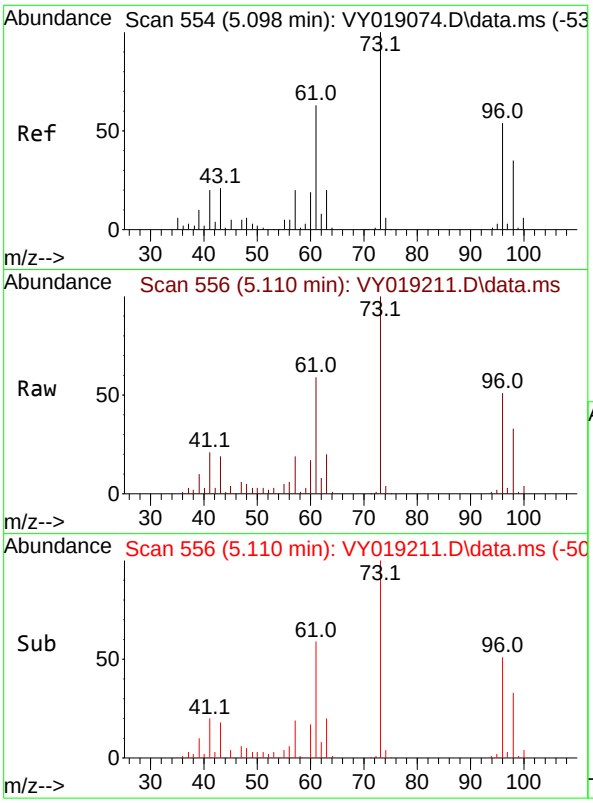


#18
Methyl Acetate
Concen: 47.290 ug/l
RT: 4.373 min Scan# 435
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 43 Resp: 29503

Ion	Ratio	Lower	Upper
43	100		
74	28.2	23.3	34.9

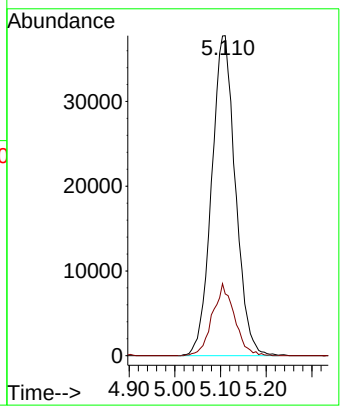




#19
Methyl tert-butyl Ether
Concen: 51.673 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.013 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 73 Resp: 13664

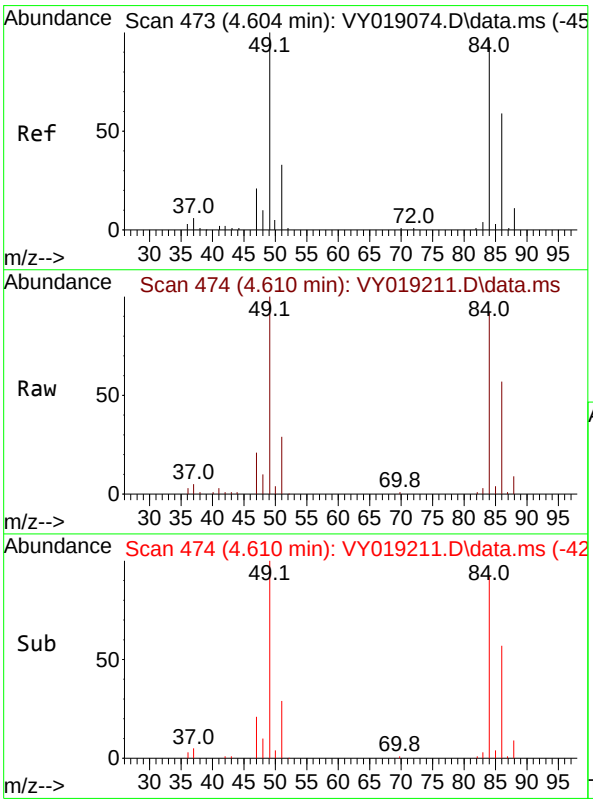
Ion	Ratio	Lower	Upper
73	100		
57	19.3	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

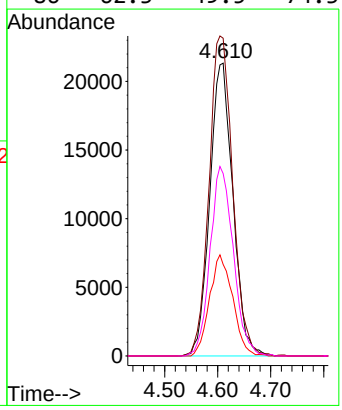
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

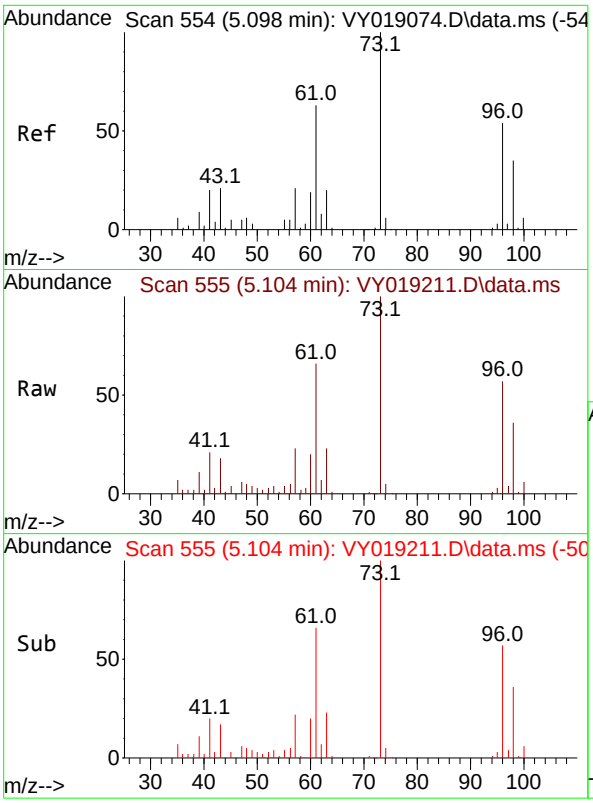


#20
Methylene Chloride
Concen: 51.602 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 84 Resp: 64730

Ion	Ratio	Lower	Upper
84	100		
49	108.5	84.4	126.6
51	31.3	26.0	39.0
86	62.3	49.5	74.3





#21
trans-1,2-Dichloroethene
Concen: 51.877 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

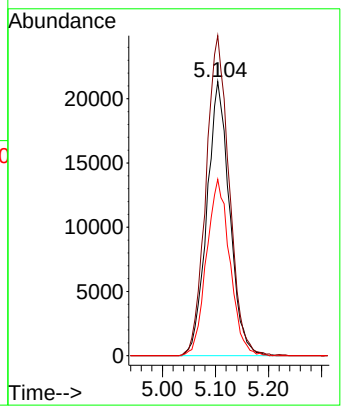
Tgt Ion: 96 Resp: 6321

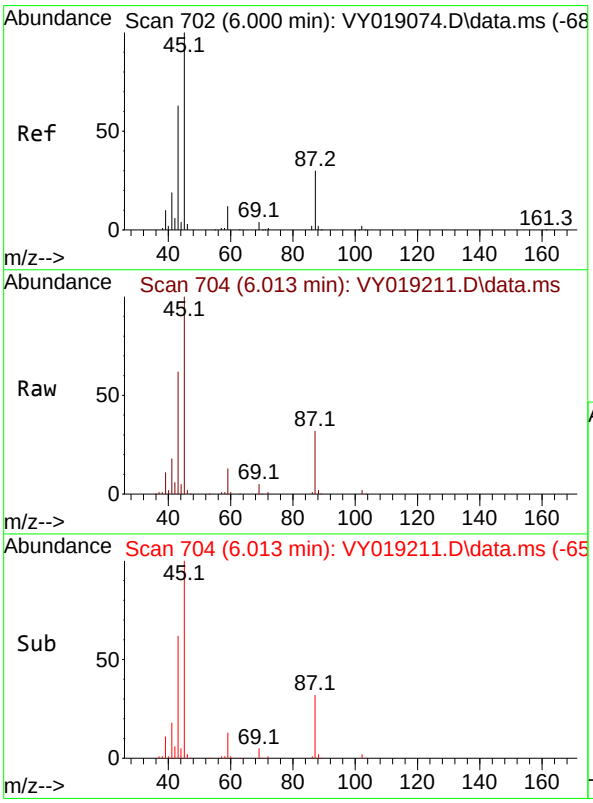
Ion	Ratio	Lower	Upper
96	100		
61	116.8	97.5	146.3
98	64.4	50.5	75.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

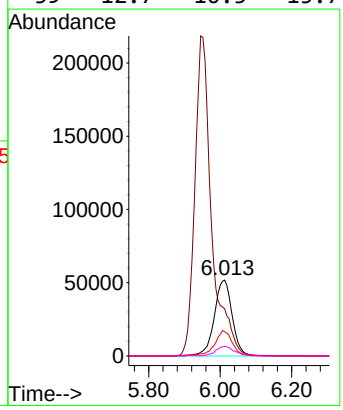


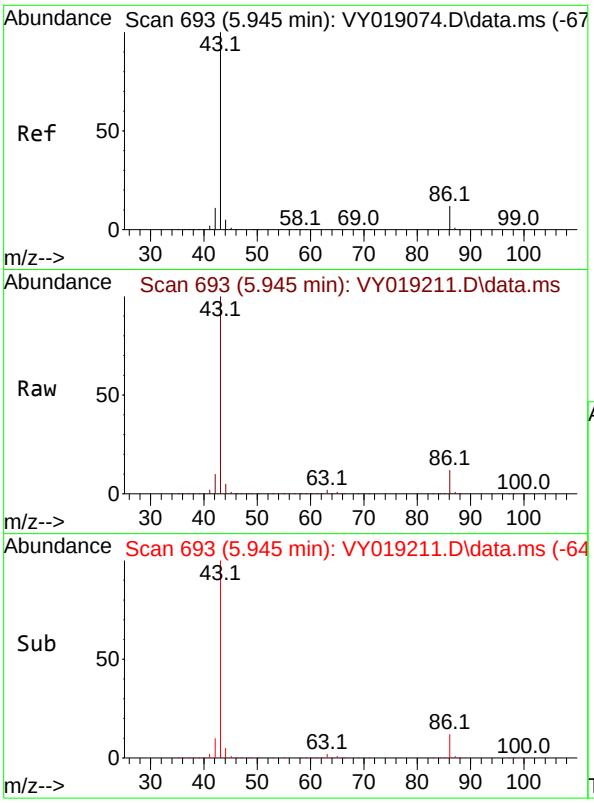


#22
Diisopropyl ether
Concen: 54.063 ug/l
RT: 6.013 min Scan# 704
Delta R.T. 0.013 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 45 Resp: 179478

Ion	Ratio	Lower	Upper
45	100		
43	61.9	42.2	63.2
87	31.8	25.0	37.6
59	12.7	10.5	15.7





#23
Vinyl Acetate
Concen: 269.450 ug/l
RT: 5.945 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

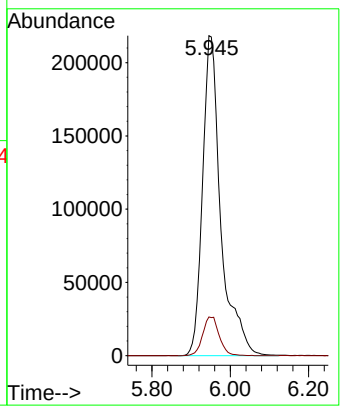
Tgt Ion: 43 Resp: 70819

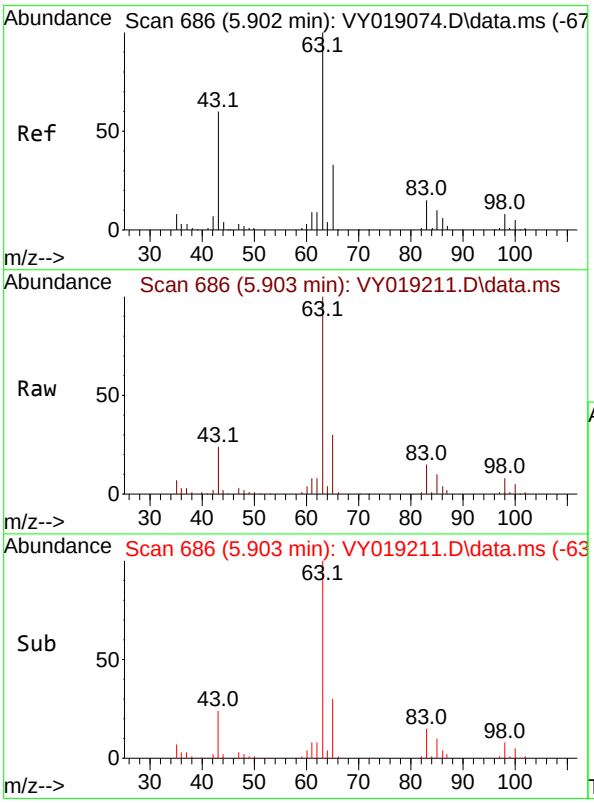
Ion	Ratio	Lower	Upper
43	100		
86	12.1	10.6	16.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

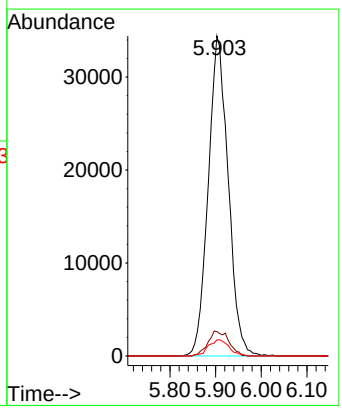


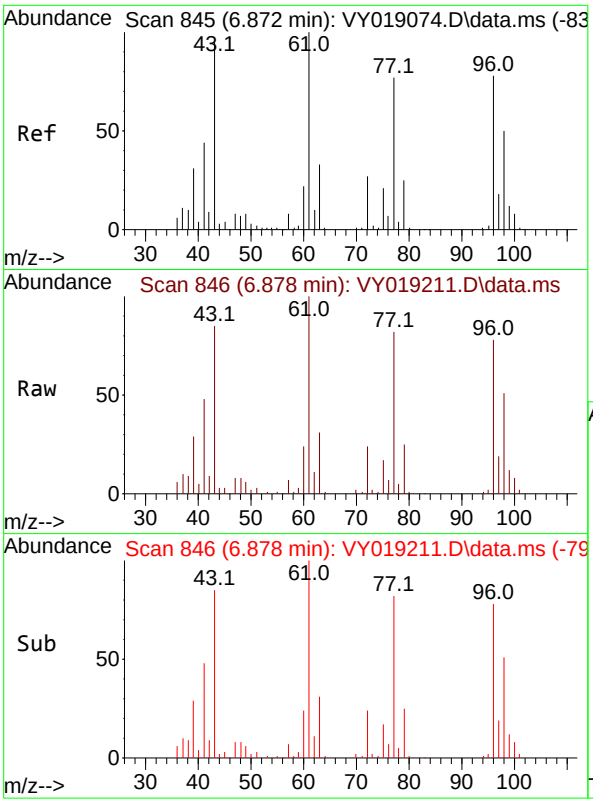


#24
1,1-Dichloroethane
Concen: 51.528 ug/l
RT: 5.903 min Scan# 686
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 63 Resp: 104613

Ion	Ratio	Lower	Upper
63	100		
98	7.6	4.0	12.2
100	5.1	2.6	8.0

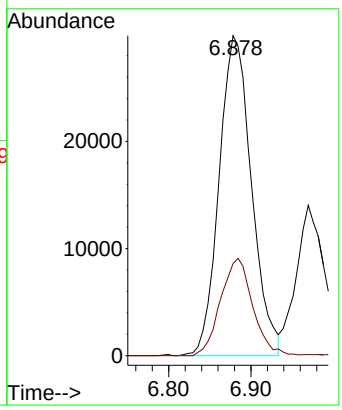




#25
2-Butanone
Concen: 250.232 ug/l
RT: 6.878 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 43 Resp: 8191

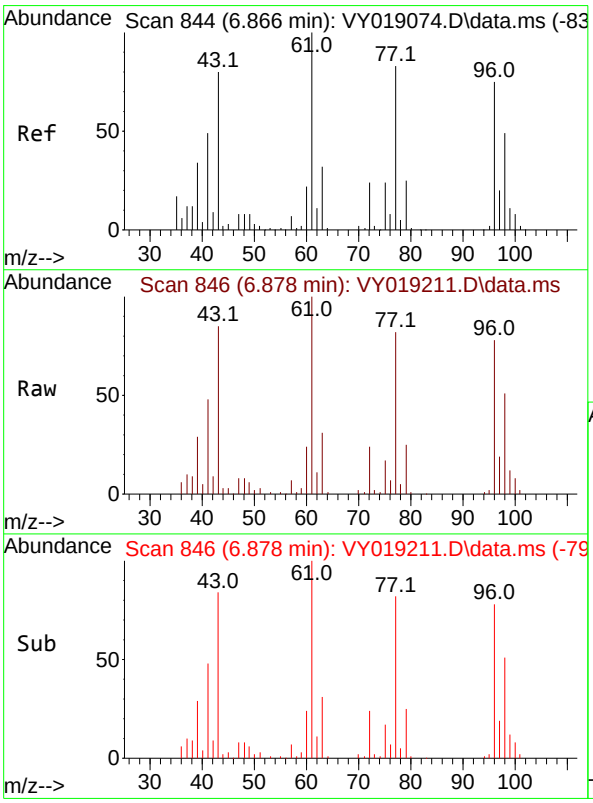
Ion	Ratio	Lower	Upper
43	100		
72	28.8	27.3	40.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

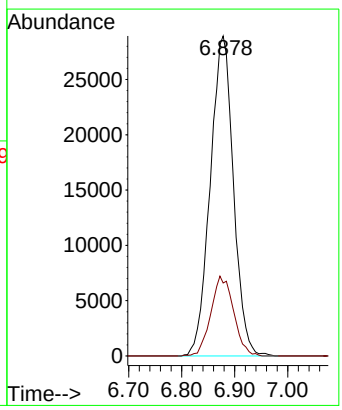
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

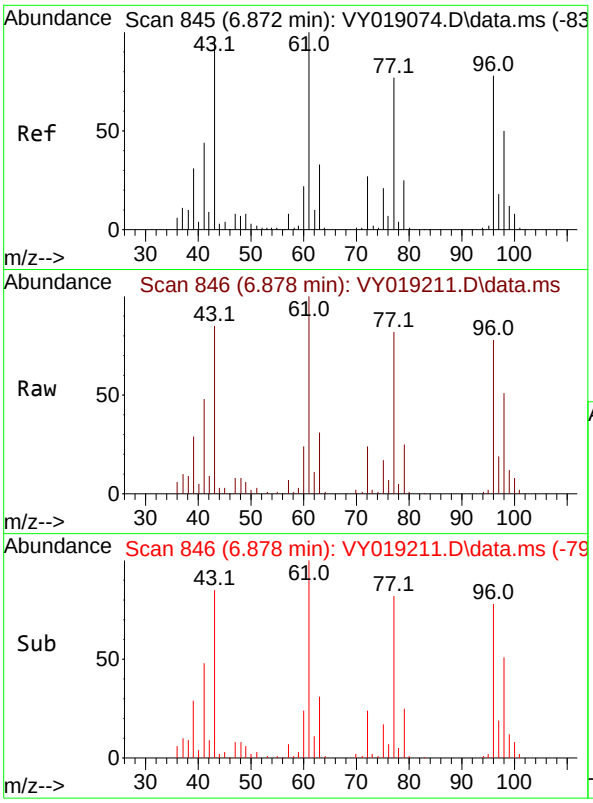


#26
2,2-Dichloropropane
Concen: 53.503 ug/l
RT: 6.878 min Scan# 846
Delta R.T. 0.013 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 77 Resp: 87961

Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.0	36.1





#27
cis-1,2-Dichloroethene
Concen: 53.353 ug/l
RT: 6.878 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

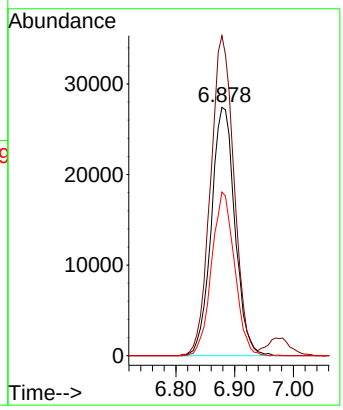
Tgt Ion: 96 Resp: 7651

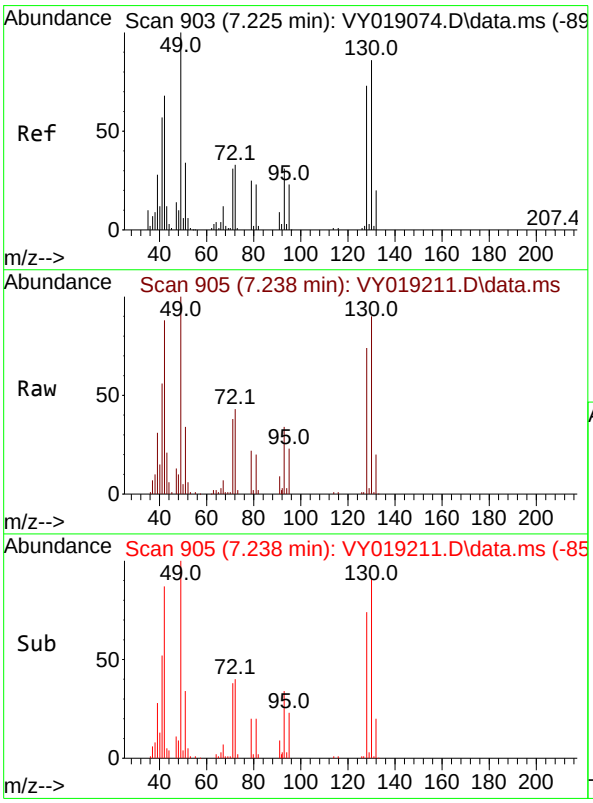
Ion	Ratio	Lower	Upper
96	100		
61	128.2	0.0	256.2
98	64.0	0.0	130.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

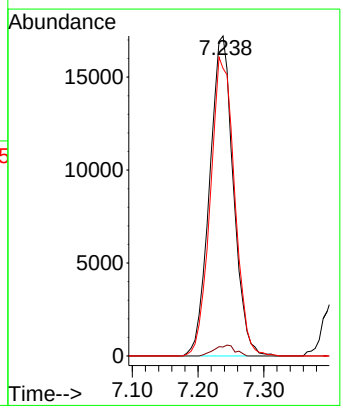


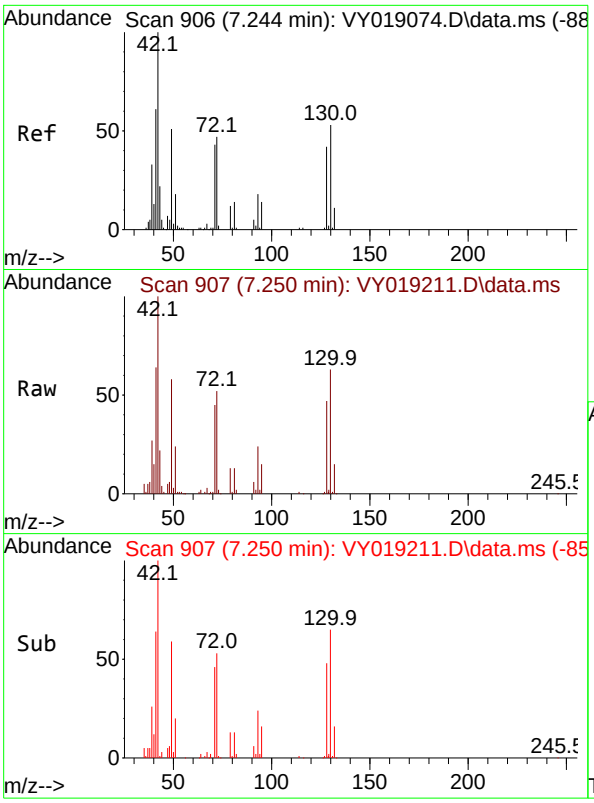


#28
Bromochloromethane
Concen: 50.873 ug/l
RT: 7.238 min Scan# 905
Delta R.T. 0.013 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 49 Resp: 43325

Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	4.6
130	95.1	72.7	109.1





#29
Tetrahydrofuran
Concen: 244.986 ug/l
RT: 7.250 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

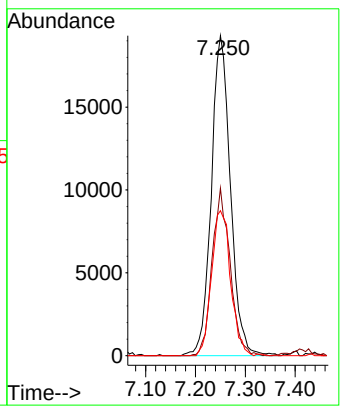
Tgt Ion: 42 Resp: 5155

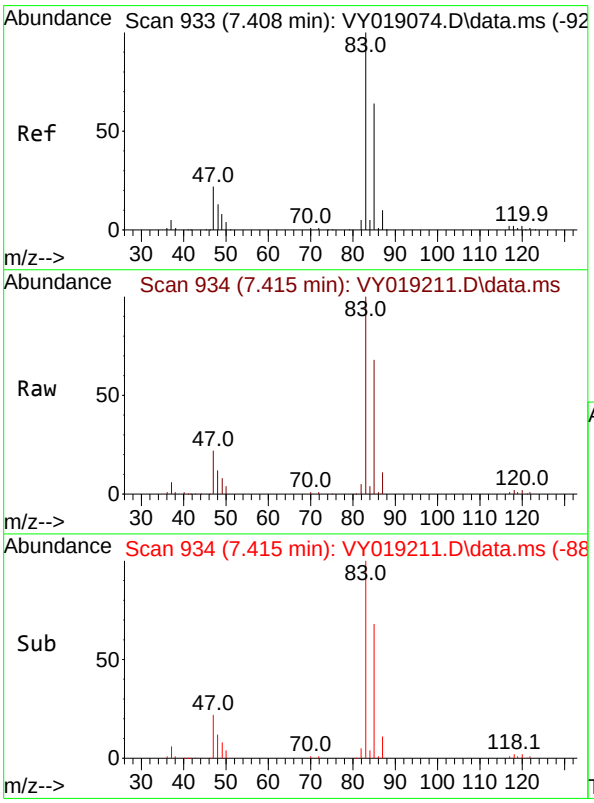
Ion	Ratio	Lower	Upper
42	100		
72	49.0	43.0	64.4
71	45.2	40.8	61.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

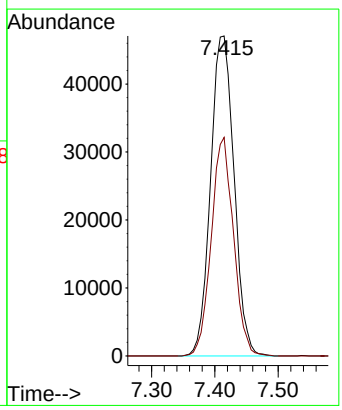


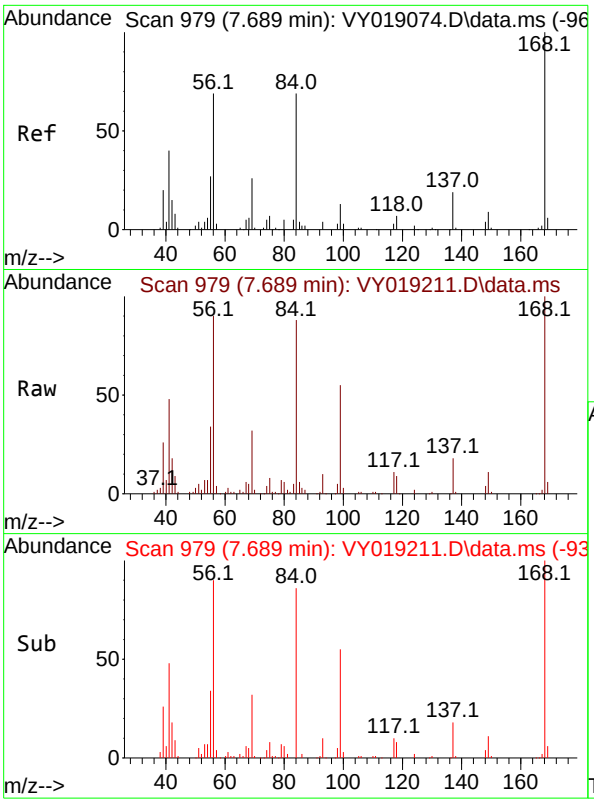


#30
Chloroform
Concen: 53.601 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 83 Resp: 121259

Ion	Ratio	Lower	Upper
83	100		
85	68.3	52.2	78.4

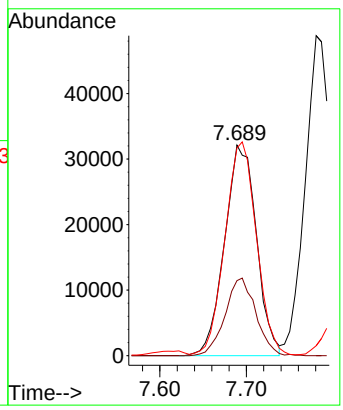




#31
Cyclohexane
Concen: 52.651 ug/l
RT: 7.689 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 56 Resp: 8219

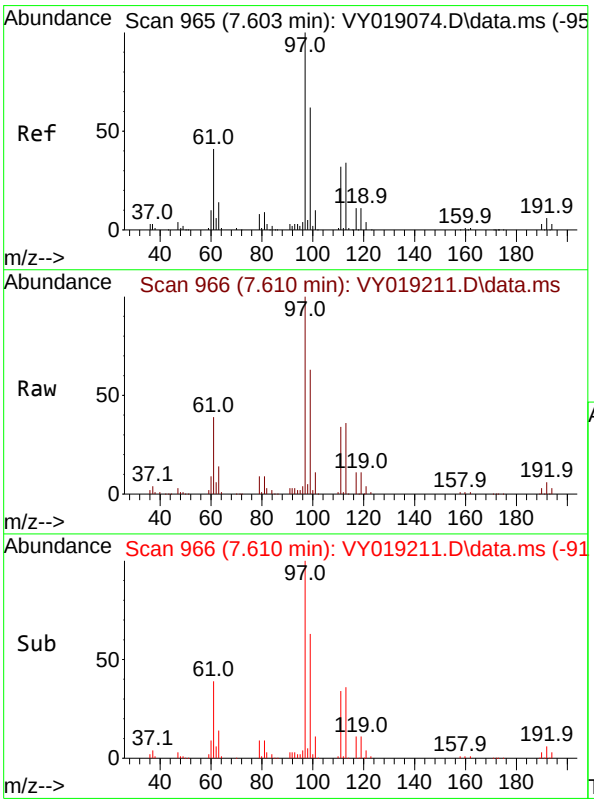
Ion	Ratio	Lower	Upper
56	100		
69	35.6	28.7	43.1
84	96.4	77.7	116.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

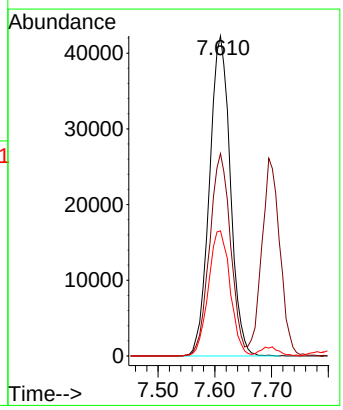
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

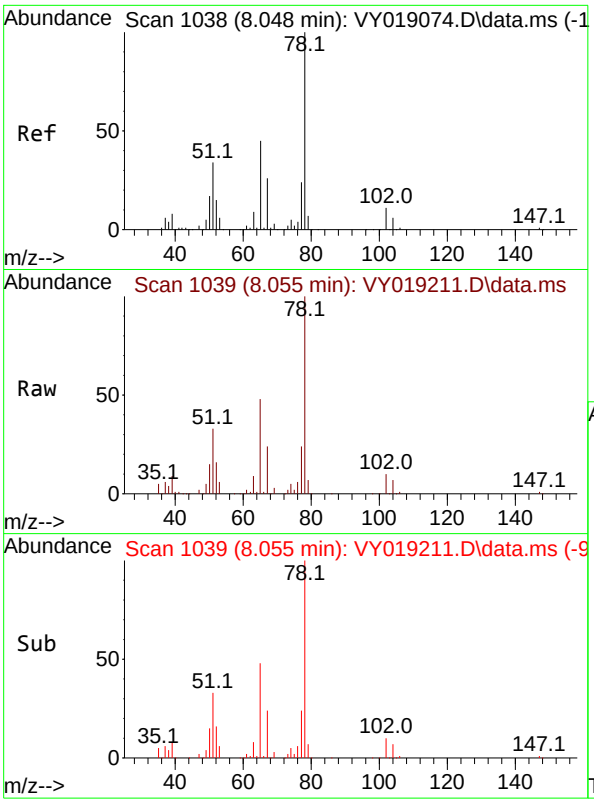


#32
1,1,1-Trichloroethane
Concen: 54.150 ug/l
RT: 7.610 min Scan# 966
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 97 Resp: 107654

Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.3	75.5
61	40.9	32.6	48.8

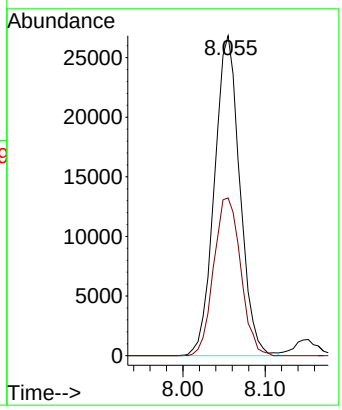




#33
1,2-Dichloroethane-d4
Concen: 52.545 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 65 Resp: 5759

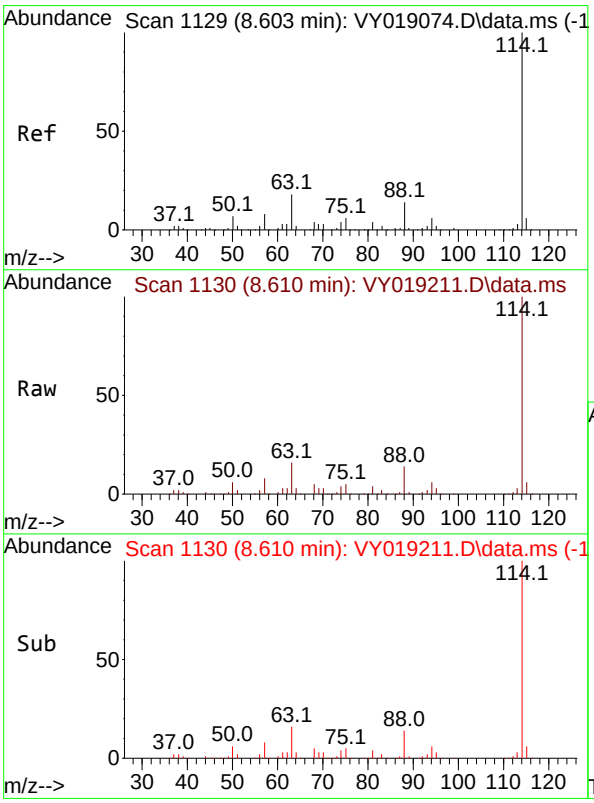
Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	109.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

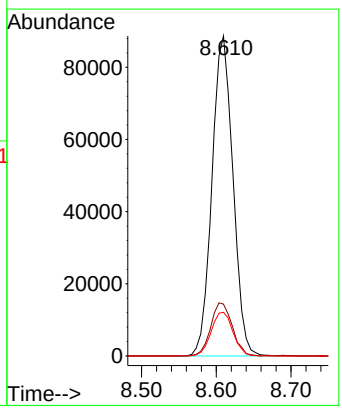
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

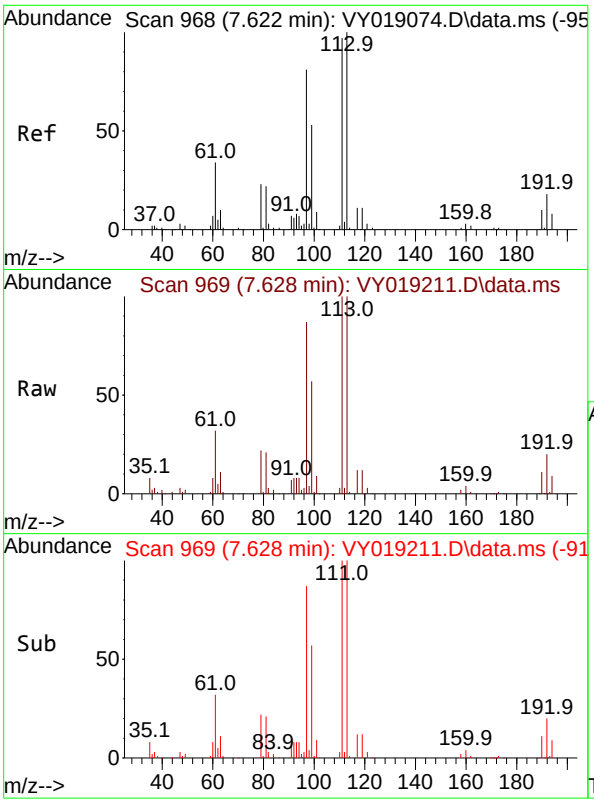


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:114 Resp: 172965

Ion	Ratio	Lower	Upper
114	100		
63	16.2	0.0	35.0
88	13.7	0.0	27.2

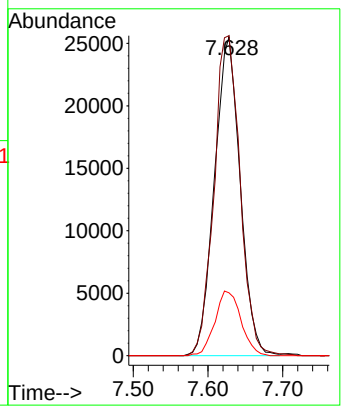




#35
Dibromofluoromethane
Concen: 53.872 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:113 Resp: 6092

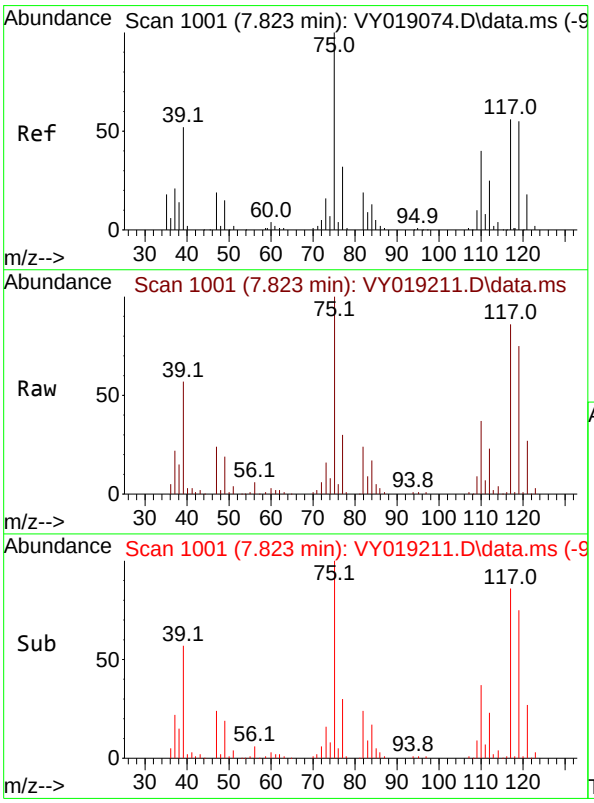
Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.2	123.4
192	20.6	15.9	23.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

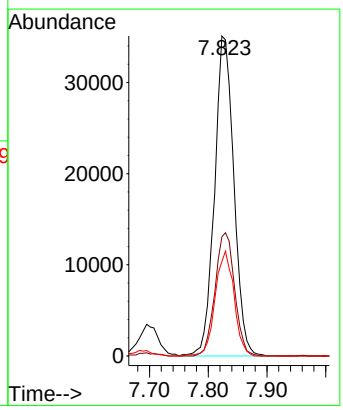
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

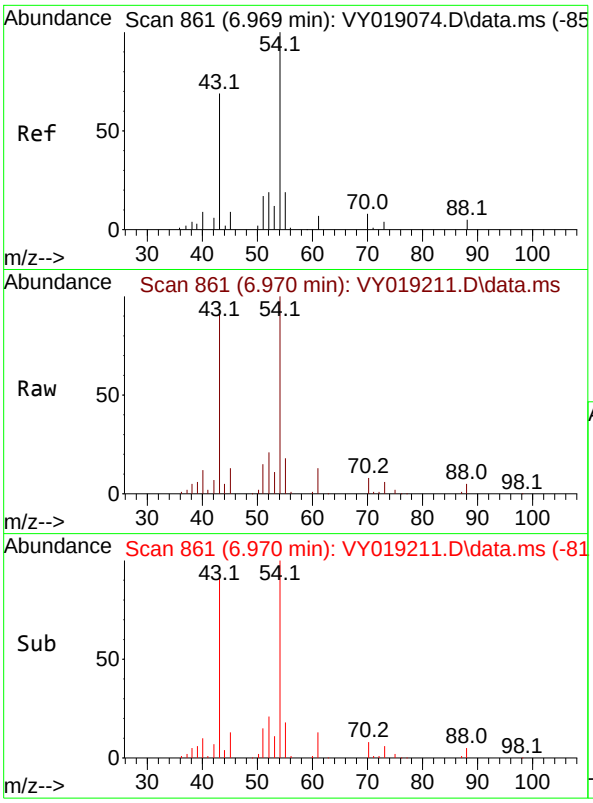


#36
1,1-Dichloropropene
Concen: 51.696 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 75 Resp: 80284

Ion	Ratio	Lower	Upper
75	100		
110	38.9	19.0	57.0
77	31.9	25.3	37.9





#37
Ethyl Acetate
Concen: 51.442 ug/l
RT: 6.970 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

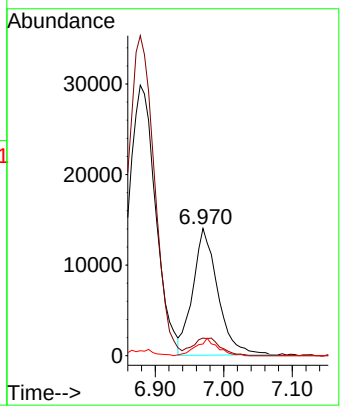
Tgt Ion: 43 Resp: 3539

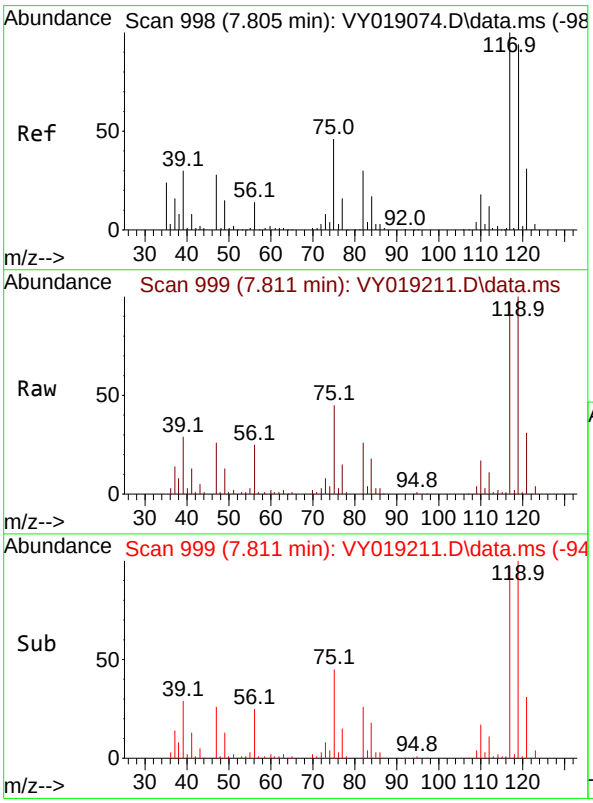
Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.6	19.0
70	11.6	7.8	11.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

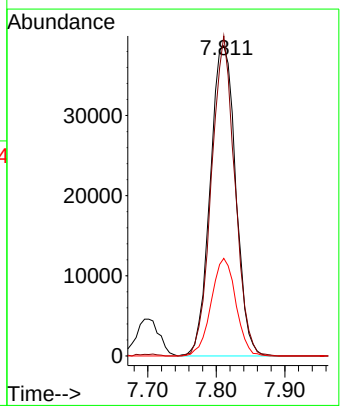


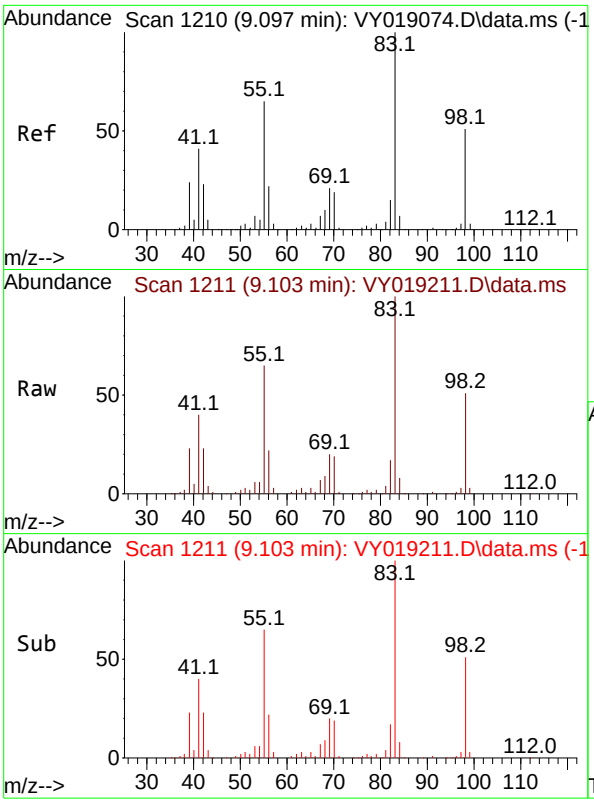


#38
Carbon Tetrachloride
Concen: 55.485 ug/l
RT: 7.811 min Scan# 999
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:117 Resp: 99859

Ion	Ratio	Lower	Upper
117	100		
119	103.1	75.8	113.6
121	31.5	24.0	36.0

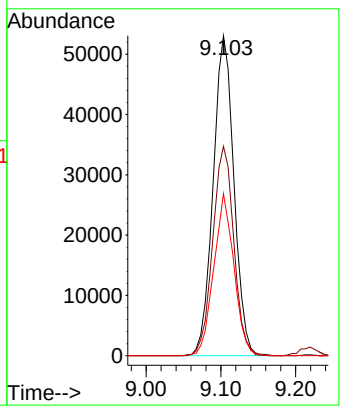




#39
Methylcyclohexane
Concen: 51.556 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 83 Resp: 10274

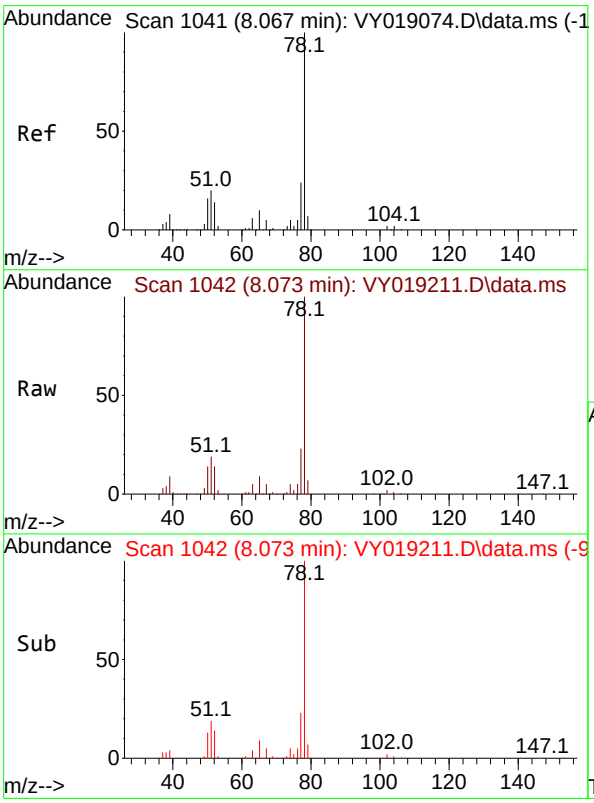
Ion	Ratio	Lower	Upper
83	100		
55	65.5	51.5	77.3
98	50.6	40.5	60.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

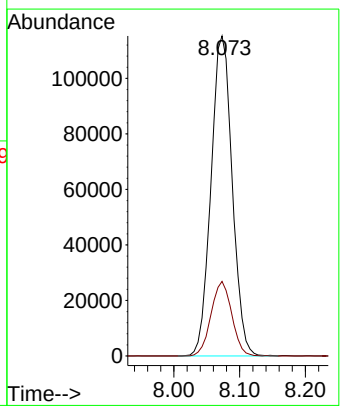
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

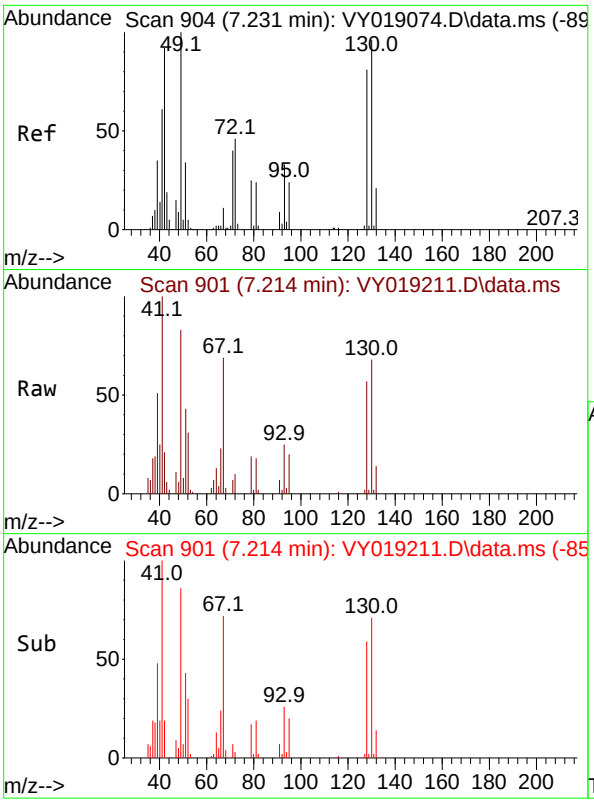


#40
Benzene
Concen: 54.306 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 78 Resp: 258656

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.5	29.3

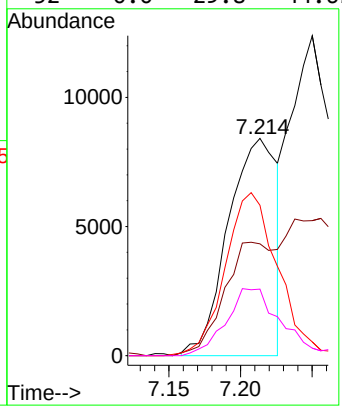




#41
Methacrylonitrile
Concen: 52.928 ug/l m
RT: 7.214 min Scan# 9
Delta R.T. -0.018 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 41 Resp: 1987

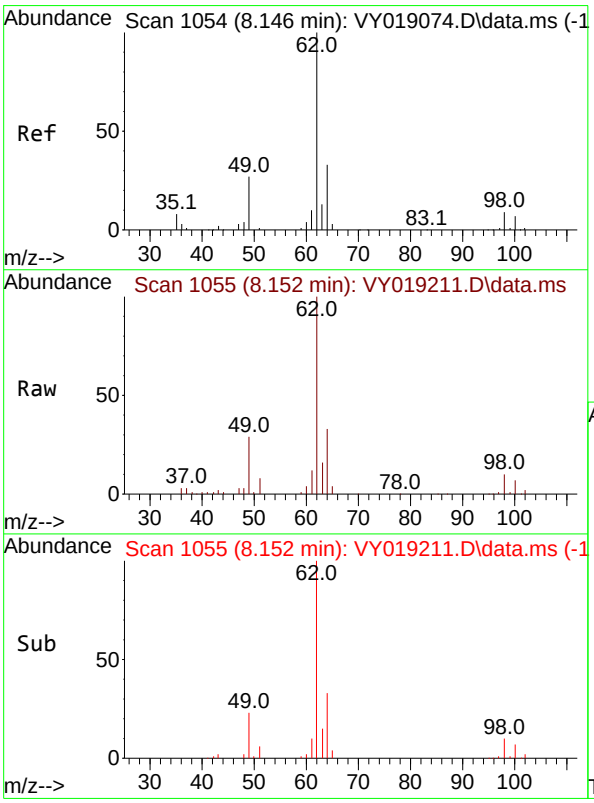
Ion	Ratio	Lower	Upper
41	100		
39	71.7	48.0	72.0
67	0.0	75.1	112.7#
52	0.0	29.8	44.6#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

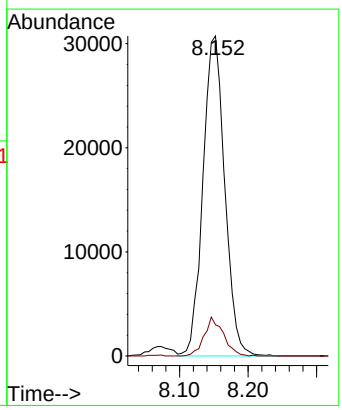
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

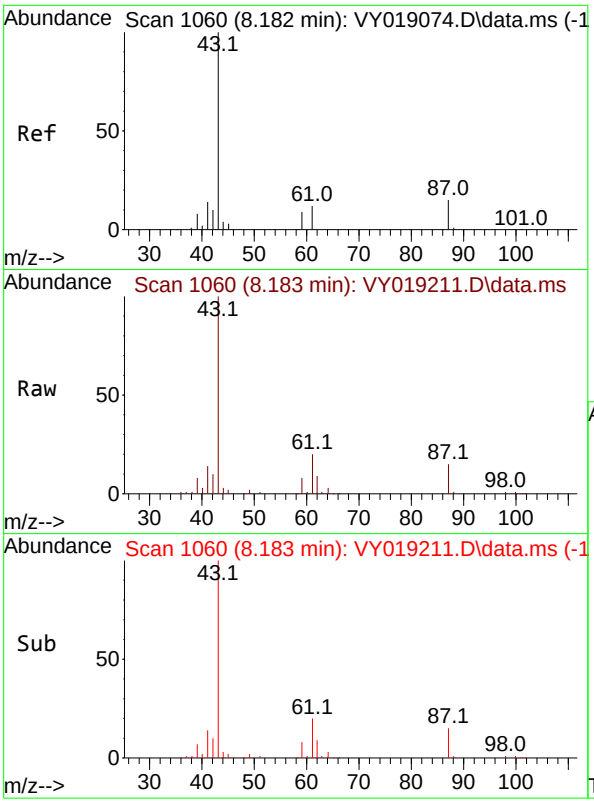


#42
1,2-Dichloroethane
Concen: 52.928 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 62 Resp: 68076

Ion	Ratio	Lower	Upper
62	100		
98	10.7	0.0	22.0





#43
Isopropyl Acetate
Concen: 50.432 ug/l
RT: 8.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

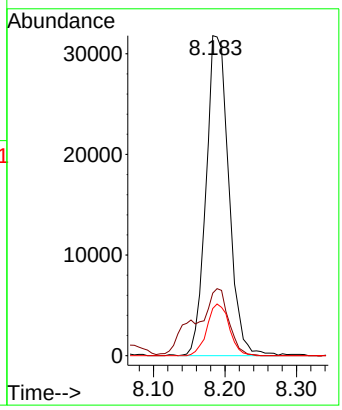
Tgt Ion: 43 Resp: 7017

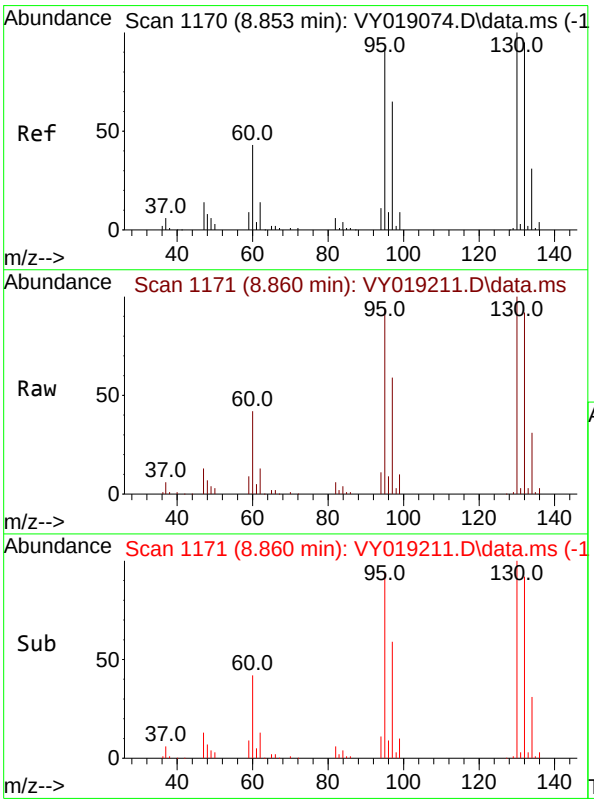
Ion	Ratio	Lower	Upper
43	100		
61	20.0	27.9	41.9#
87	15.8	13.1	19.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

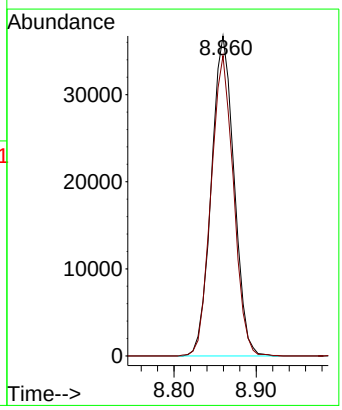


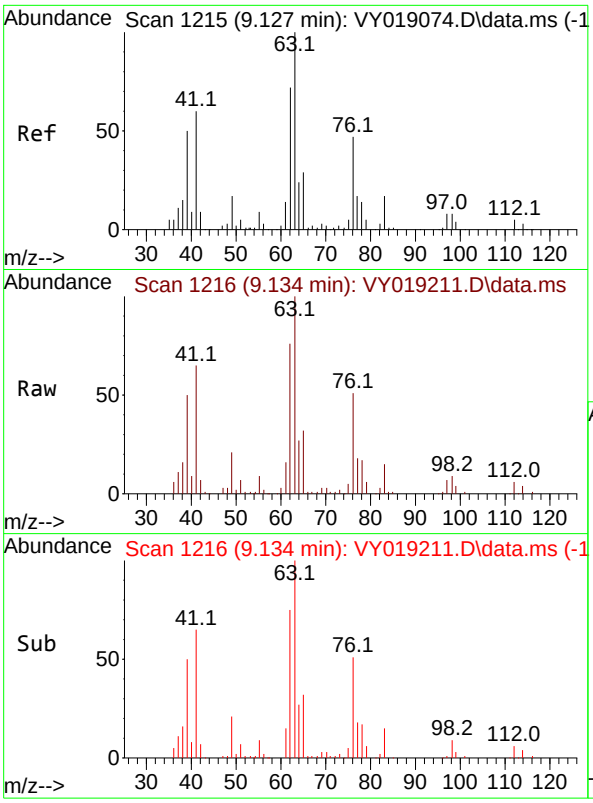


#44
Trichloroethene
Concen: 53.099 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:130 Resp: 70568

Ion	Ratio	Lower	Upper
130	100		
95	93.8	0.0	188.0

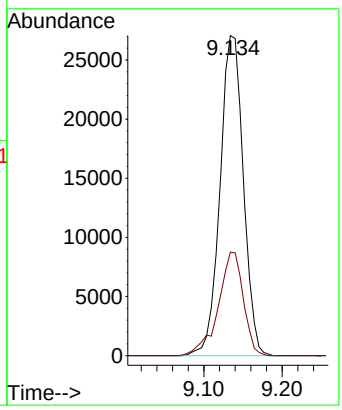




#45
1,2-Dichloropropane
Concen: 52.849 ug/l
RT: 9.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 63 Resp: 5608

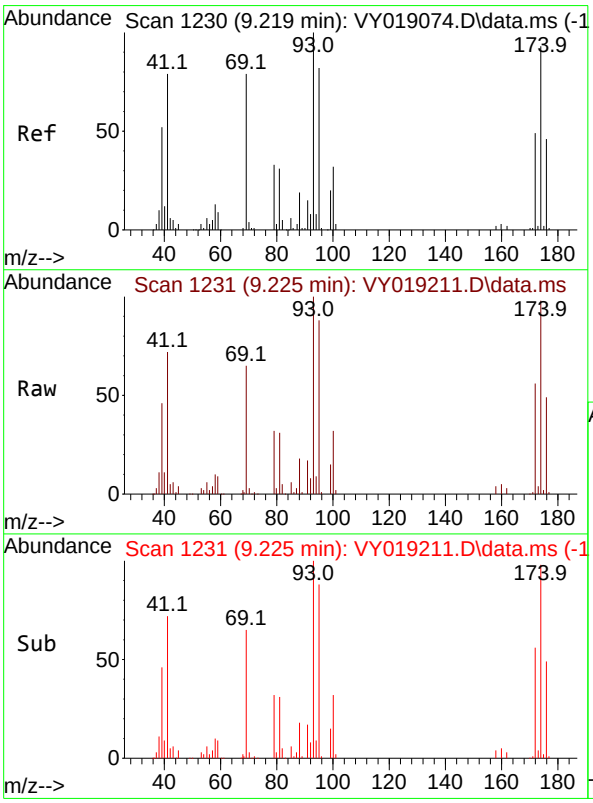
Ion	Ratio	Lower	Upper
63	100		
65	32.4	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

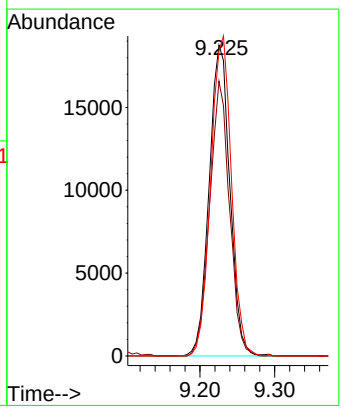
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

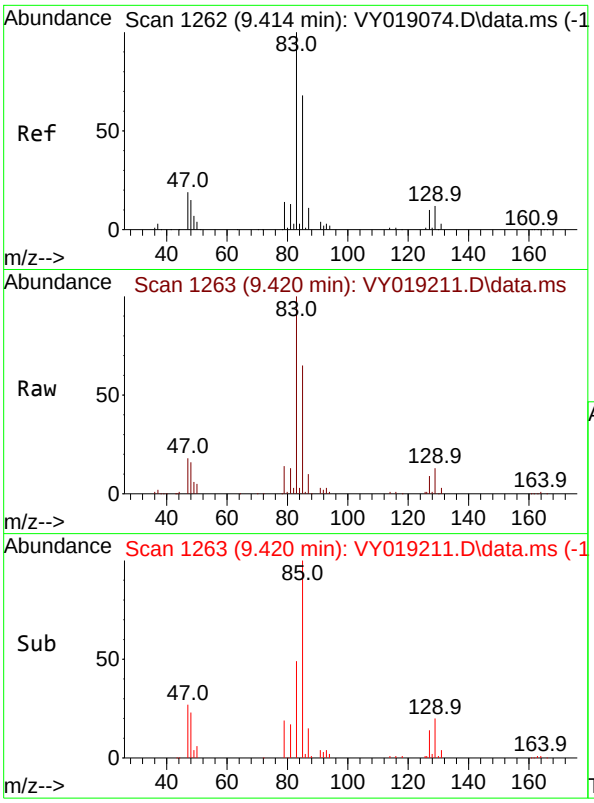


#46
Dibromomethane
Concen: 52.702 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 93 Resp: 36274

Ion	Ratio	Lower	Upper
93	100		
95	84.5	66.2	99.4
174	102.4	80.9	121.3

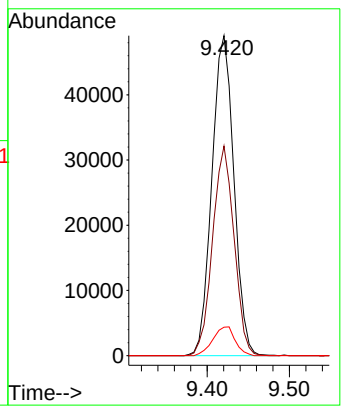




#47
Bromodichloromethane
Concen: 54.039 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 83 Resp: 9125

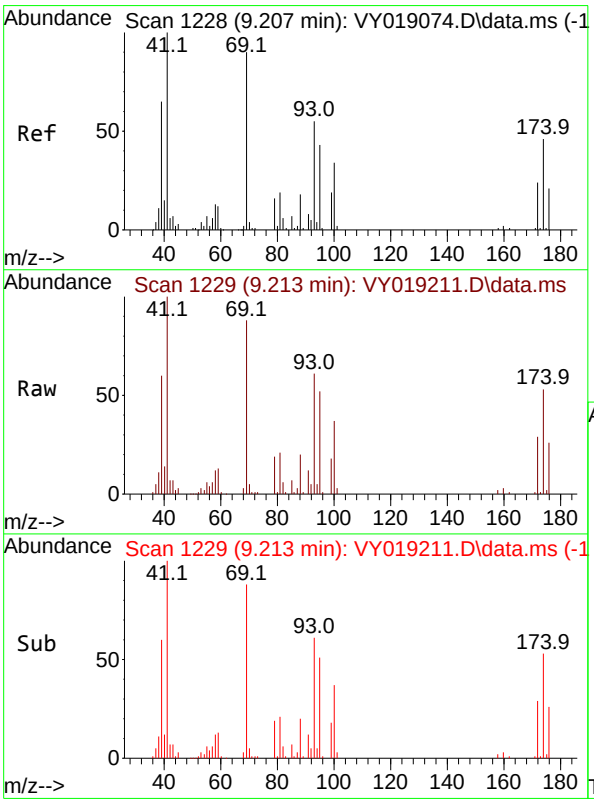
Ion	Ratio	Lower	Upper
83	100		
85	65.5	50.1	75.1
127	8.9	7.4	11.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

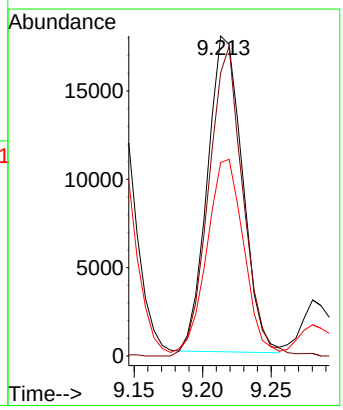
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

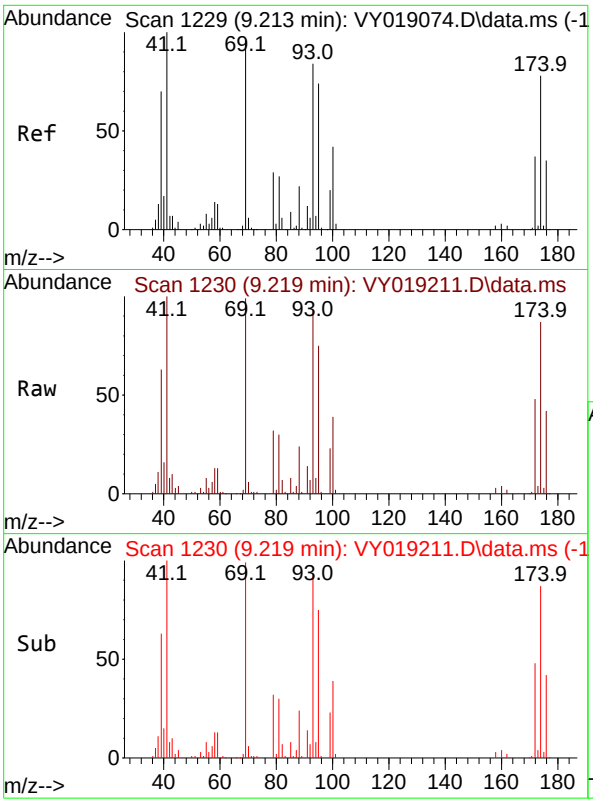


#48
Methyl methacrylate
Concen: 51.304 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 41 Resp: 31816

Ion	Ratio	Lower	Upper
41	100		
69	96.0	84.1	126.1
39	65.9	43.6	65.4#

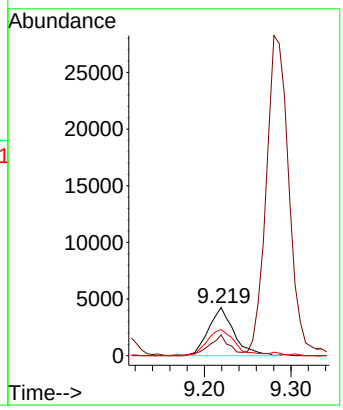




#49
1,4-Dioxane
Concen: 1039.019 ug/l
RT: 9.219 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 88 Resp: 866

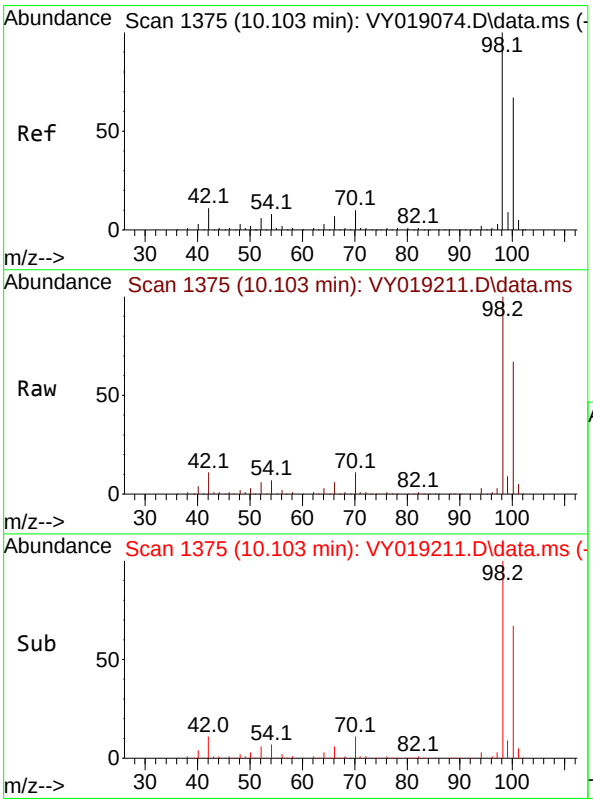
Ion	Ratio	Lower	Upper
88	100		
43	34.4	0.0	0.0
58	59.5	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

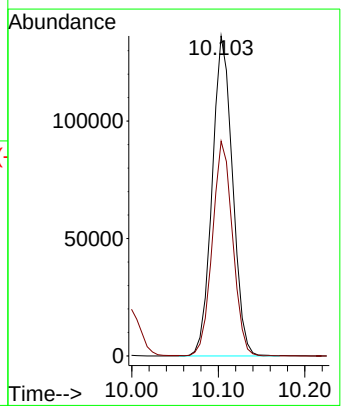
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

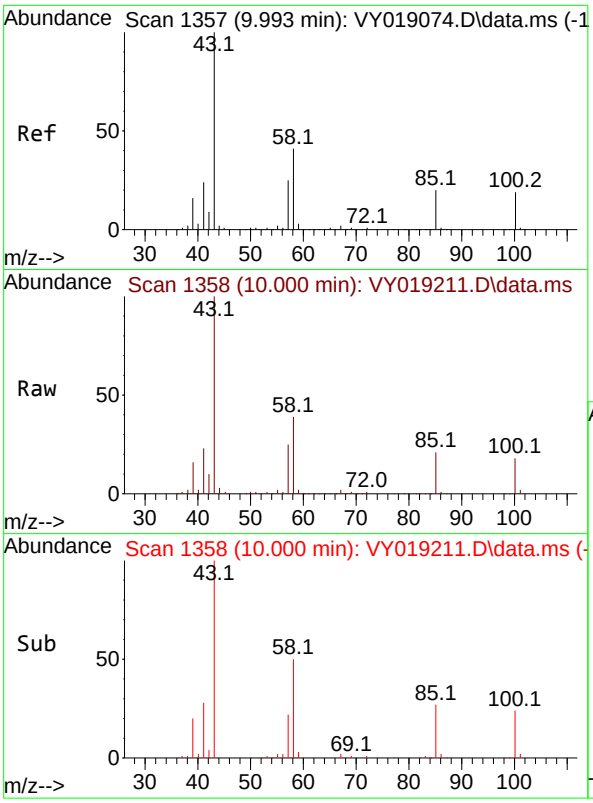


#50
Toluene-d8
Concen: 54.704 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 98 Resp: 222640

Ion	Ratio	Lower	Upper
98	100		
100	66.8	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 250.076 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

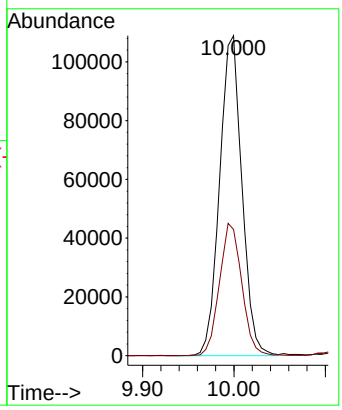
Tgt Ion: 43 Resp: 18469

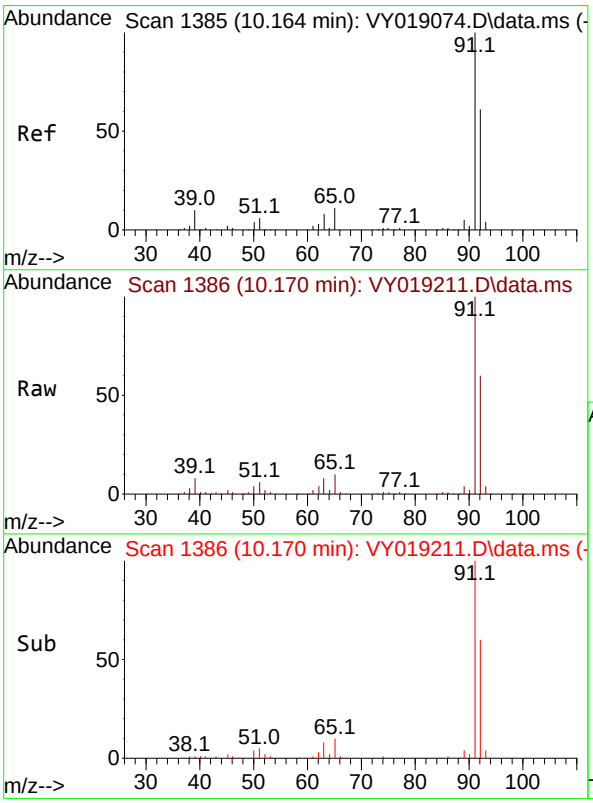
Ion	Ratio	Lower	Upper
43	100		
58	41.6	35.7	53.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

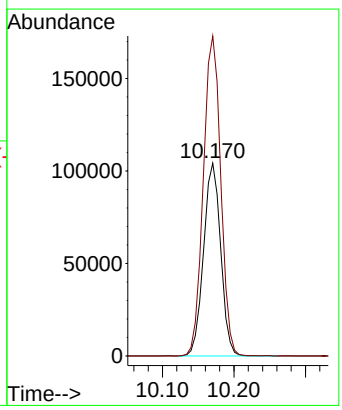


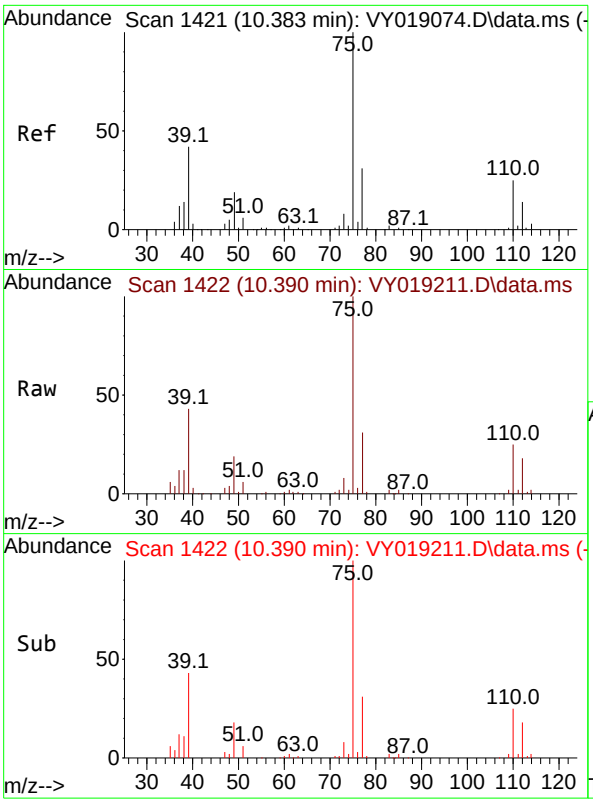


#52
Toluene
Concen: 55.351 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 92 Resp: 173055

Ion	Ratio	Lower	Upper
92	100		
91	169.2	139.0	208.6

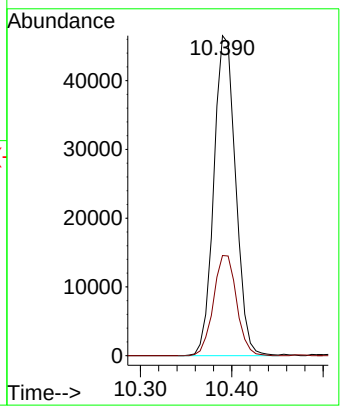




#53
t-1,3-Dichloropropene
Concen: 55.061 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 75 Resp: 7712

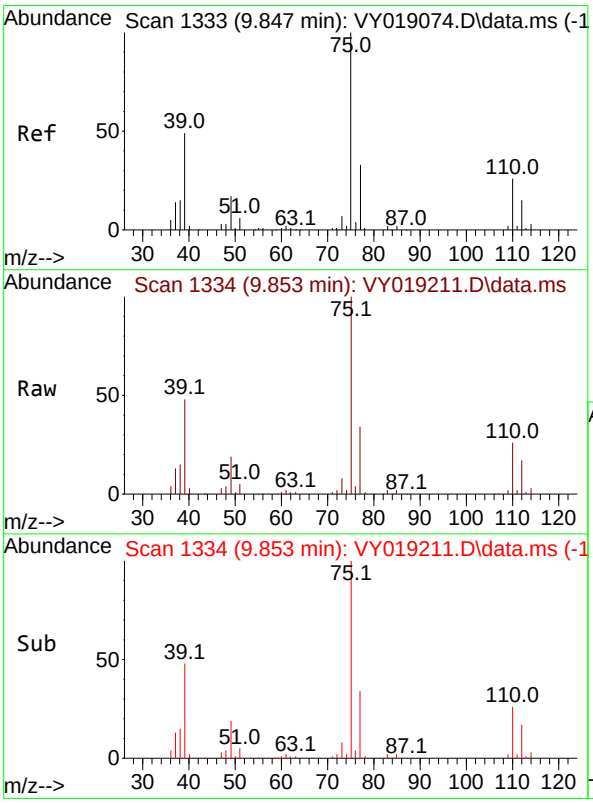
Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.1	36.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

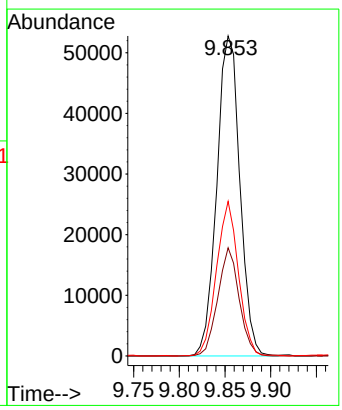
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

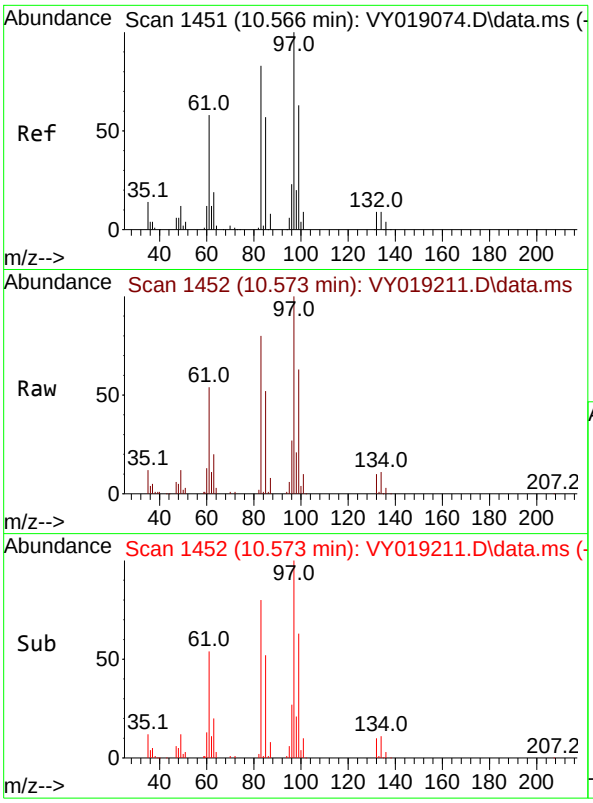


#54
cis-1,3-Dichloropropene
Concen: 55.064 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 75 Resp: 92763

Ion	Ratio	Lower	Upper
75	100		
77	33.8	25.4	38.0
39	48.3	29.8	44.6#

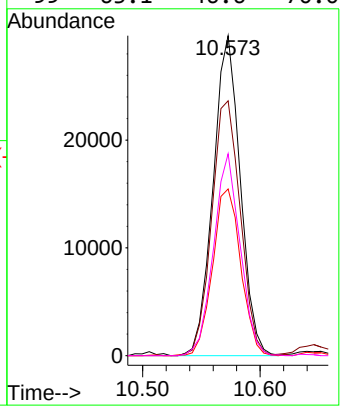




#55
1,1,2-Trichloroethane
Concen: 53.836 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 97 Resp: 4770

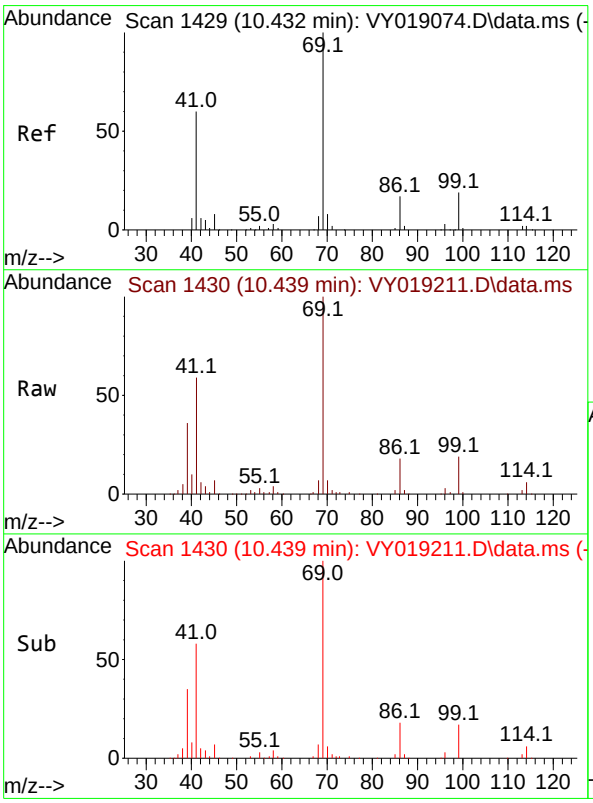
Ion	Ratio	Lower	Upper
97	100		
83	79.6	67.5	101.3
85	52.1	42.9	64.3
99	63.1	46.6	70.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

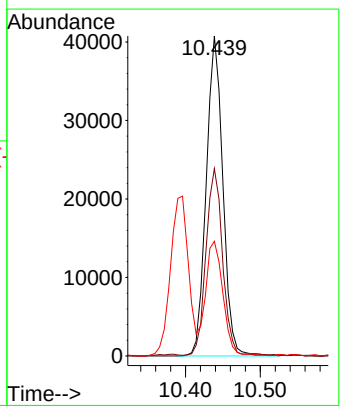
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

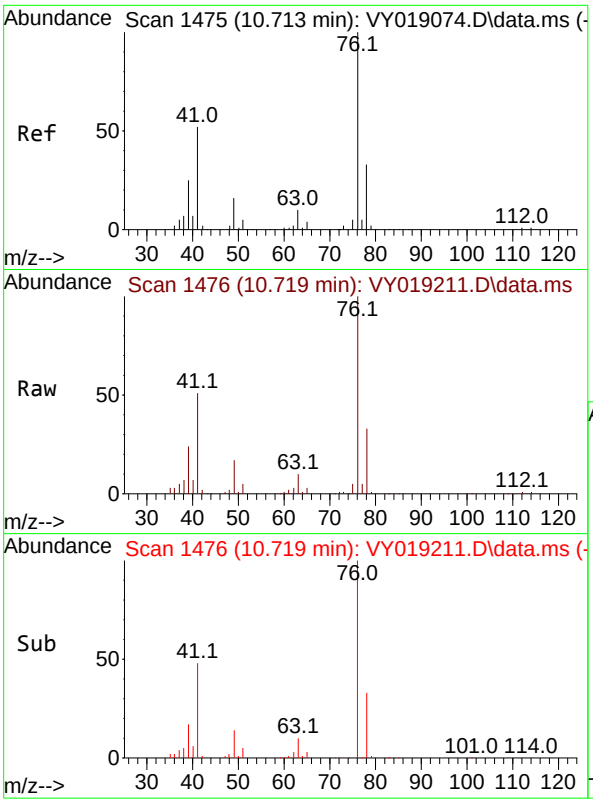


#56
Ethyl methacrylate
Concen: 54.235 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 69 Resp: 62900

Ion	Ratio	Lower	Upper
69	100		
41	57.8	42.3	63.5
39	37.4	22.9	34.3#





#57
1,3-Dichloropropane
Concen: 53.570 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

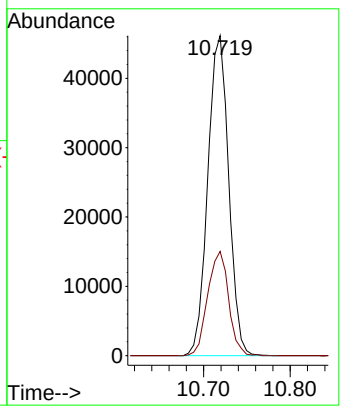
Tgt Ion: 76 Resp: 7737

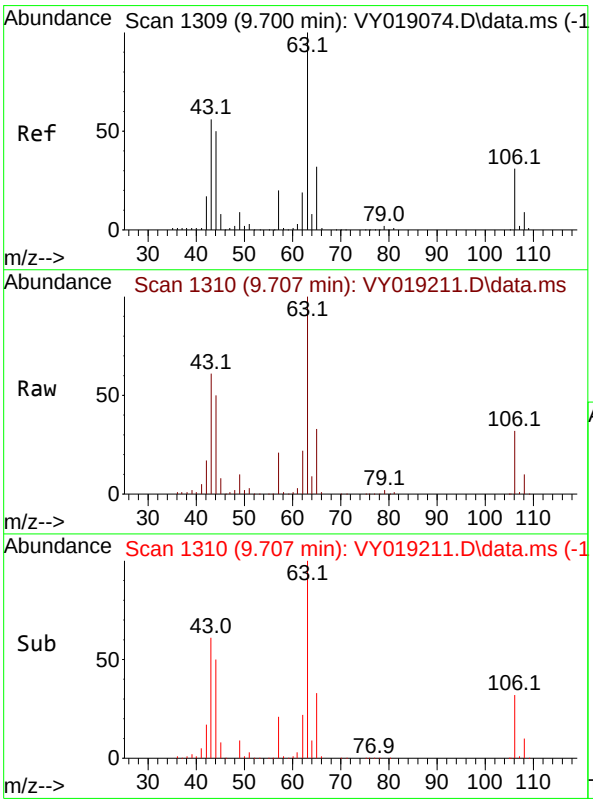
Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.2	39.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

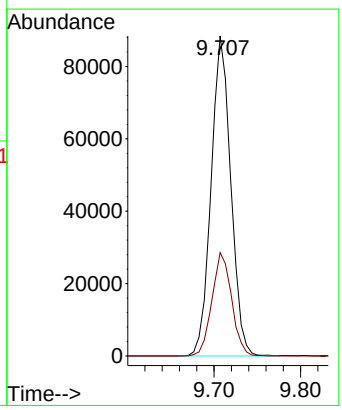


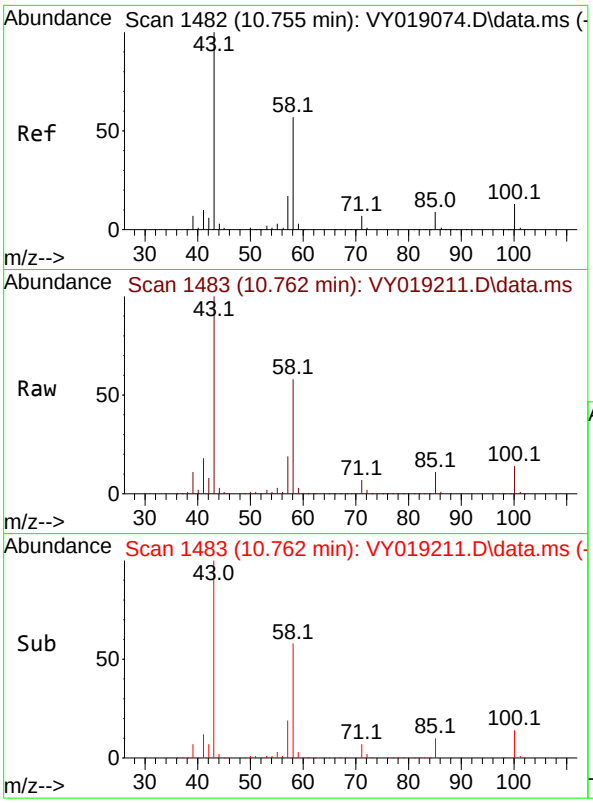


#58
2-Chloroethyl Vinyl ether
Concen: 253.684 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 63 Resp: 139575

Ion	Ratio	Lower	Upper
63	100		
106	32.3	23.7	35.5





#59
2-Hexanone
Concen: 253.753 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

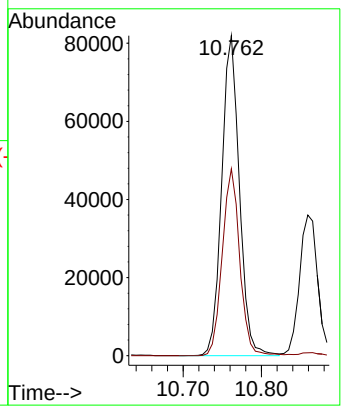
Tgt Ion: 43 Resp: 12875

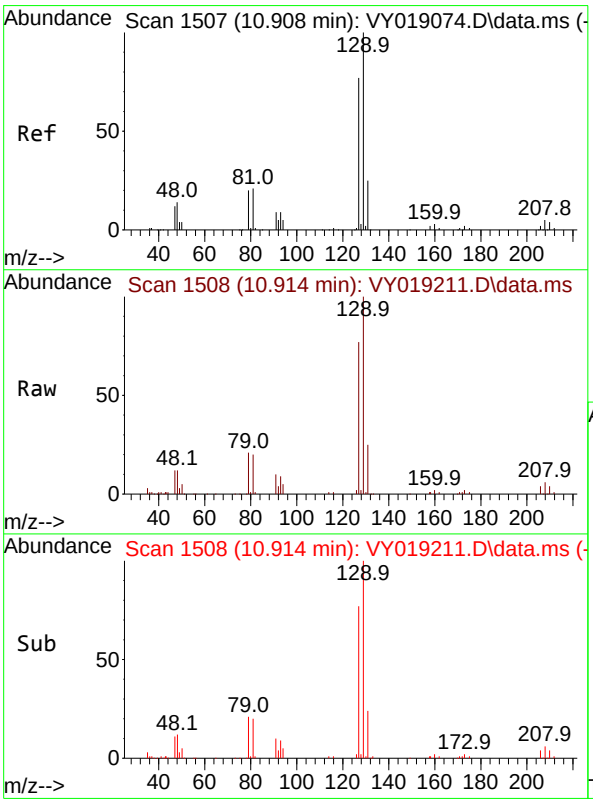
Ion	Ratio	Lower	Upper
43	100		
58	57.6	31.4	94.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

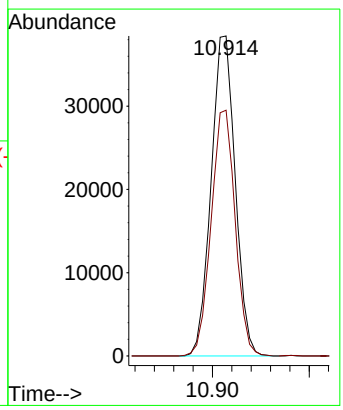


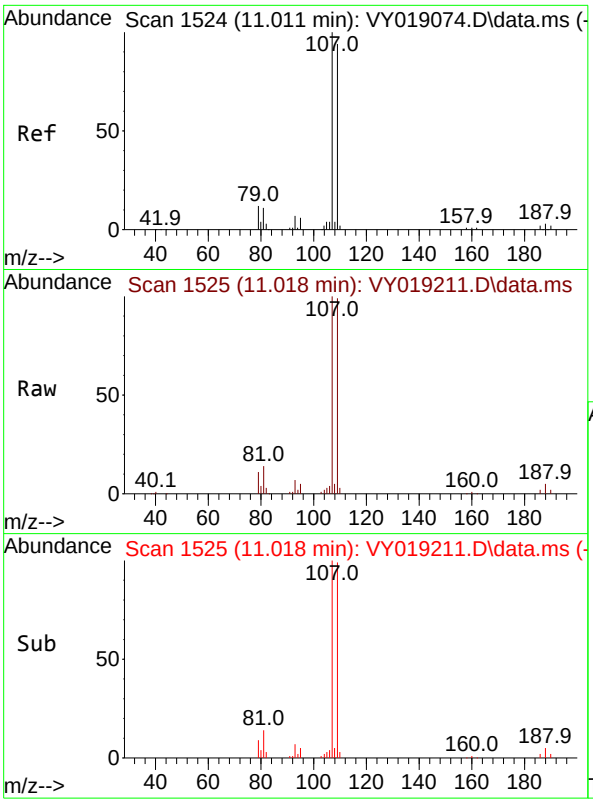


#60
Dibromochloromethane
Concen: 55.145 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:129 Resp: 66550

Ion	Ratio	Lower	Upper
129	100		
127	76.5	39.0	117.0

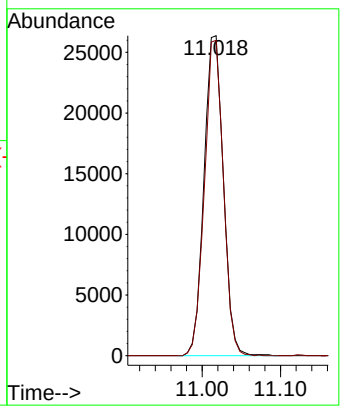




#61
1,2-Dibromoethane
Concen: 52.709 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:107 Resp: 4514

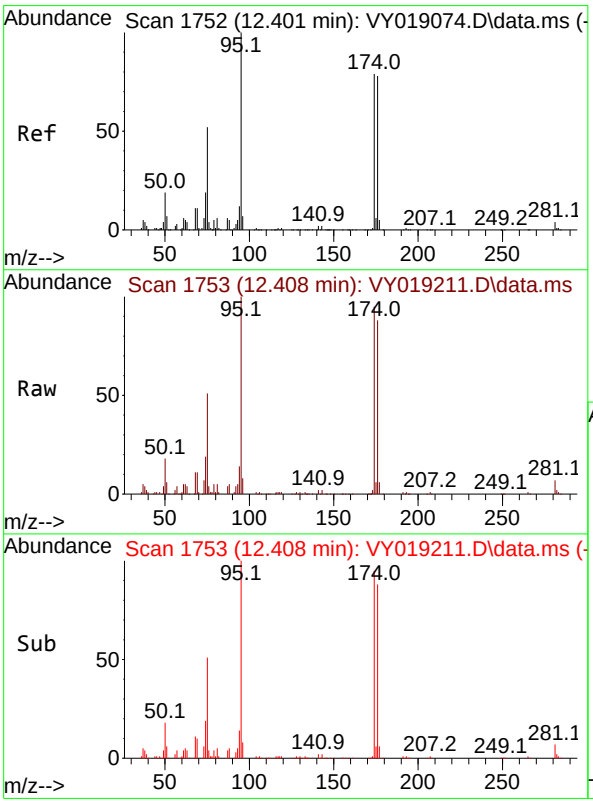
Ion	Ratio	Lower	Upper
107	100		
109	96.3	75.9	113.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

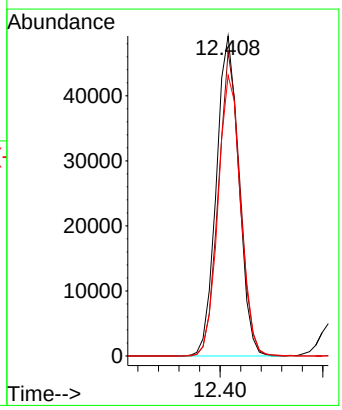
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

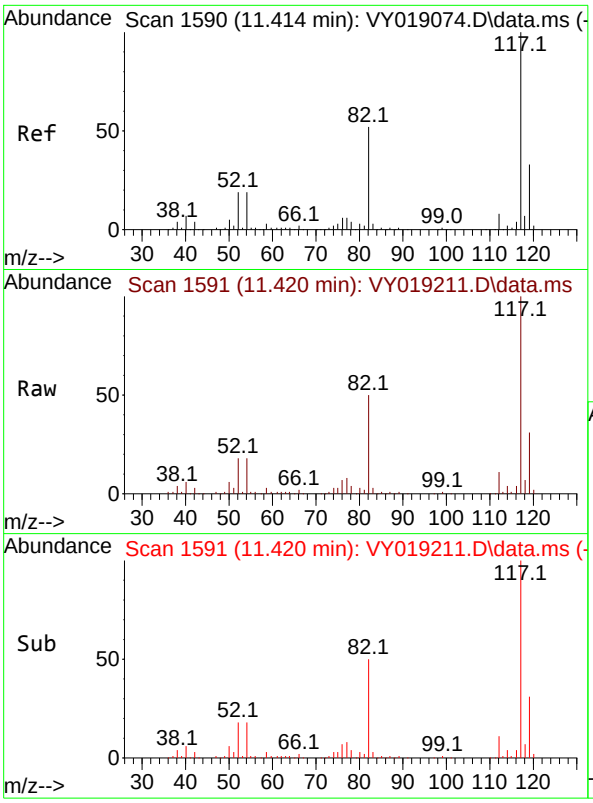


#62
4-Bromofluorobenzene
Concen: 53.664 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 95 Resp: 74455

Ion	Ratio	Lower	Upper
95	100		
174	92.0	0.0	175.6
176	88.3	0.0	171.4

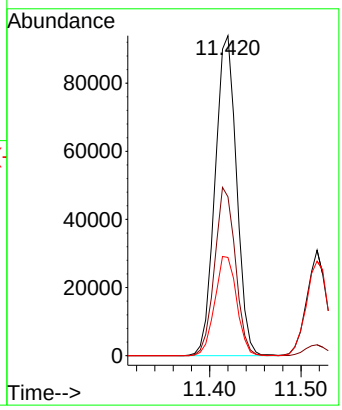




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:117 Resp: 15355

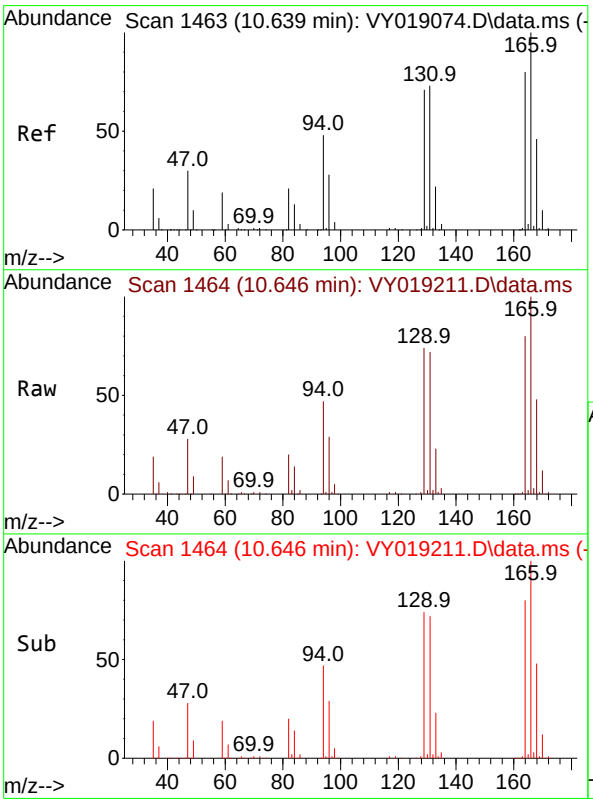
Ion	Ratio	Lower	Upper
117	100		
82	49.6	42.4	63.6
119	30.7	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

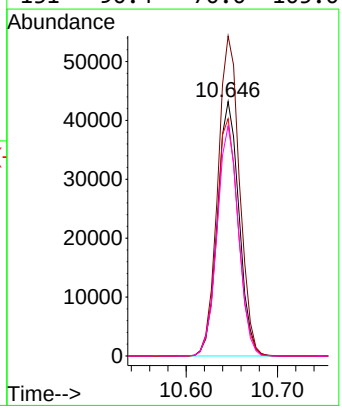
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

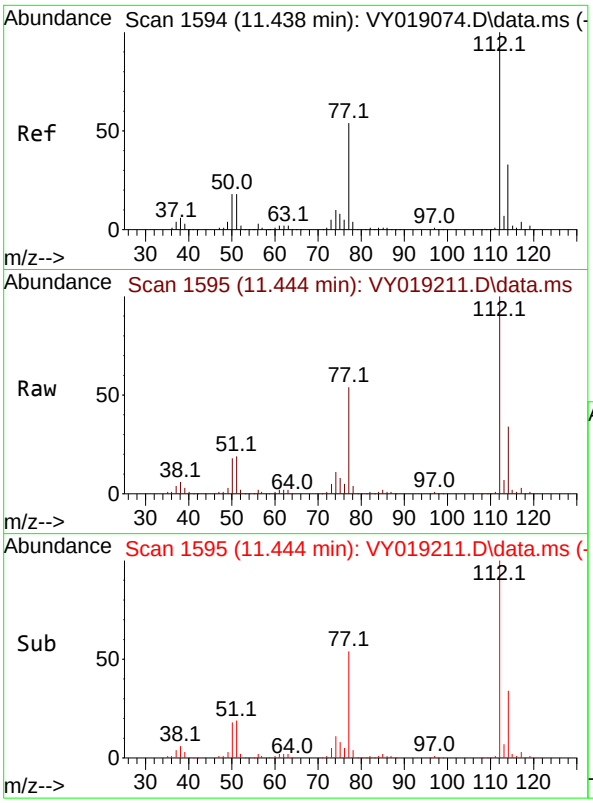


#64
Tetrachloroethene
Concen: 52.883 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:164 Resp: 70981

Ion	Ratio	Lower	Upper
164	100		
166	125.7	102.6	154.0
129	93.3	72.0	108.0
131	90.4	70.0	105.0

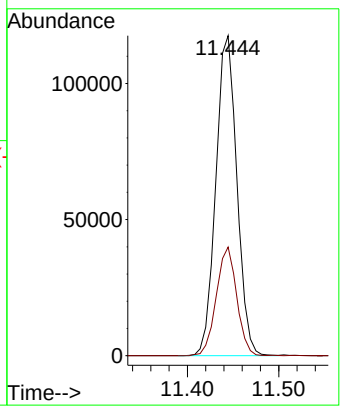




#65
Chlorobenzene
Concen: 53.188 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:112 Resp: 18806

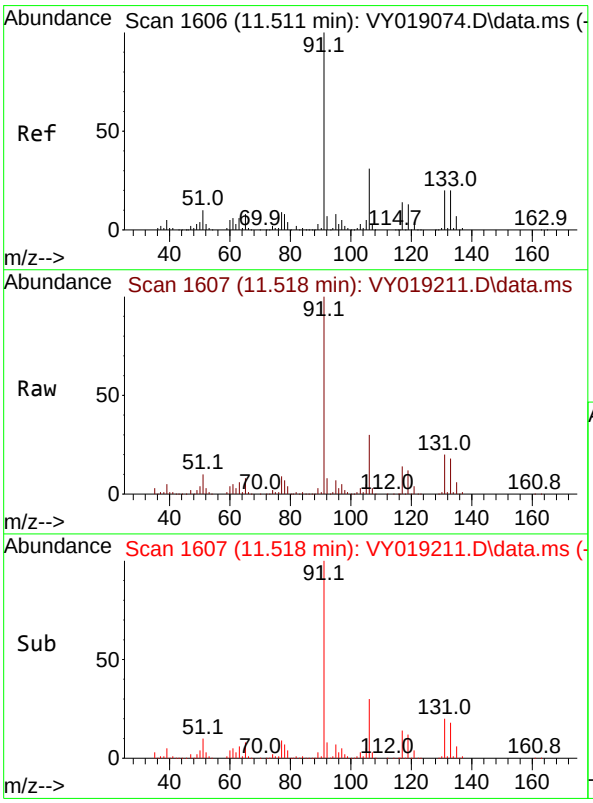
Ion	Ratio	Lower	Upper
112	100		
114	34.0	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

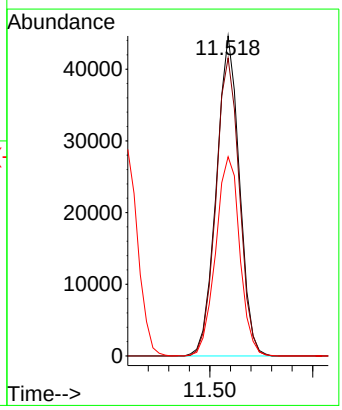
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

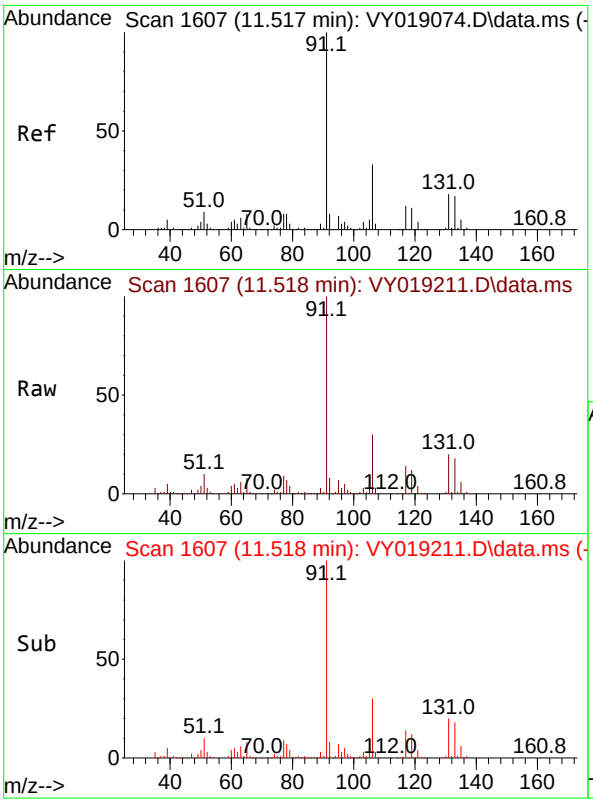


#66
1,1,1,2-Tetrachloroethane
Concen: 55.884 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:131 Resp: 69489

Ion	Ratio	Lower	Upper
131	100		
133	94.4	47.8	143.3
119	64.8	34.1	102.2

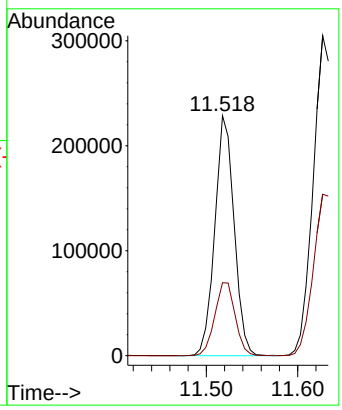




#67
Ethyl Benzene
Concen: 54.639 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 91 Resp: 33532

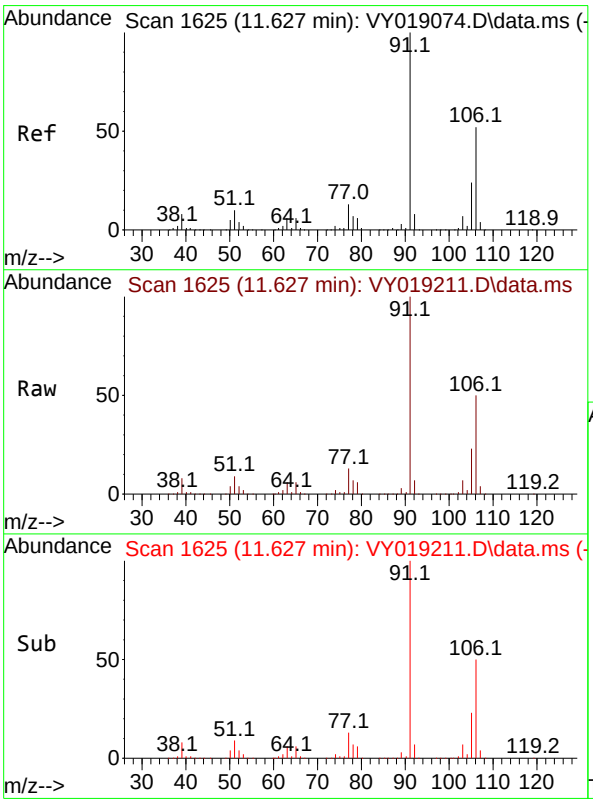
Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.5	36.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

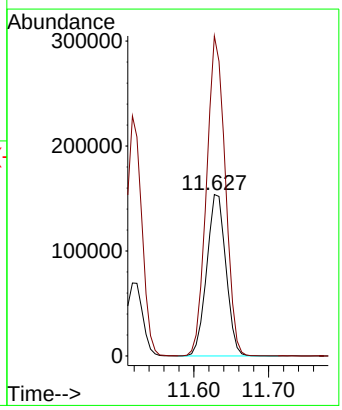
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

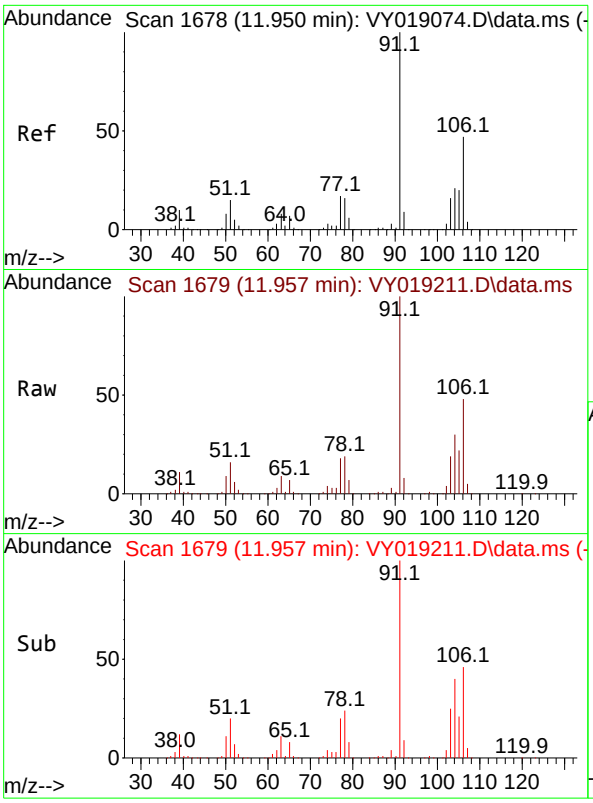


#68
m/p-Xylenes
Concen: 112.613 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:106 Resp: 274227

Ion	Ratio	Lower	Upper
106	100		
91	193.1	156.0	234.0

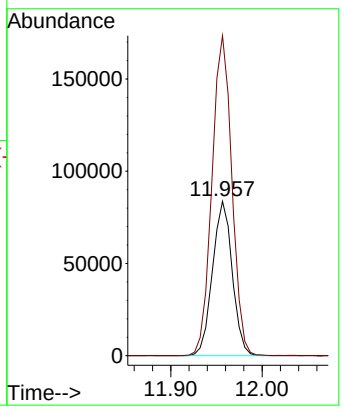




#69
o-Xylene
Concen: 55.631 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:106 Resp: 12545

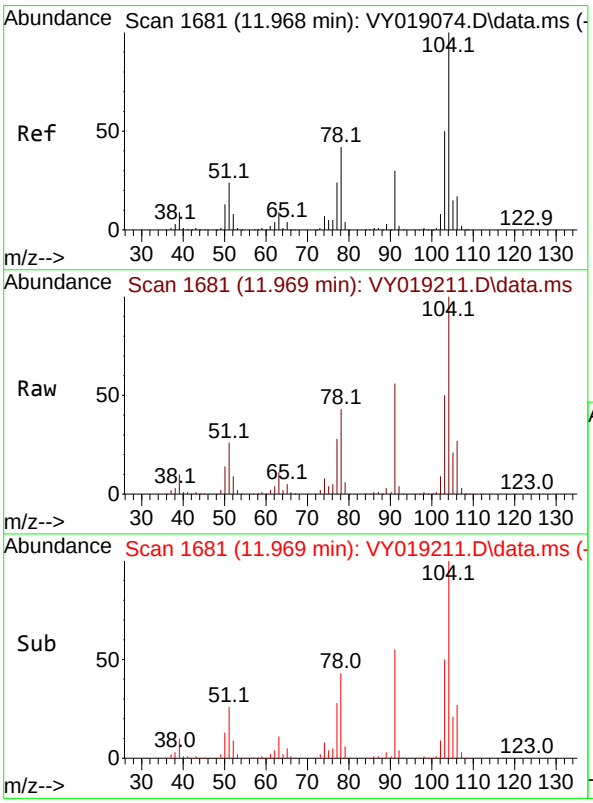
Ion	Ratio	Lower	Upper
106	100		
91	209.3	103.6	310.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

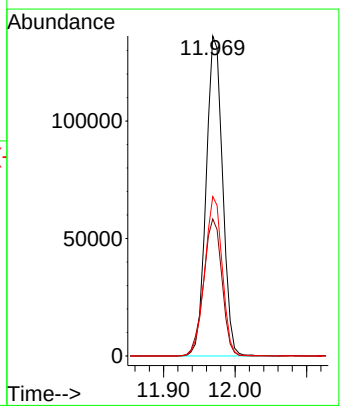
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

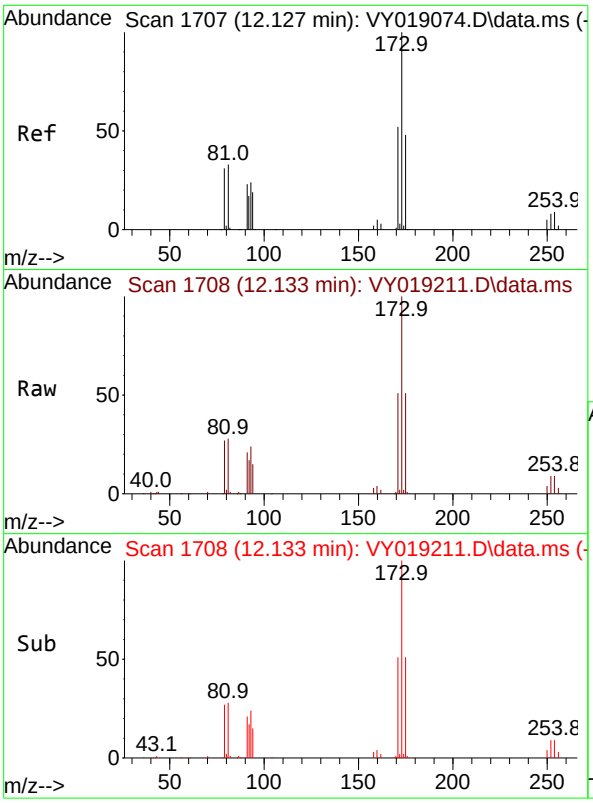


#70
Styrene
Concen: 56.519 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:104 Resp: 217344

Ion	Ratio	Lower	Upper
104	100		
78	47.6	37.0	55.4
103	53.1	44.2	66.2

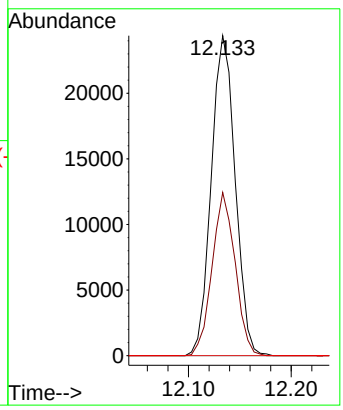




#71
Bromoform
Concen: 55.513 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:173 Resp: 3945

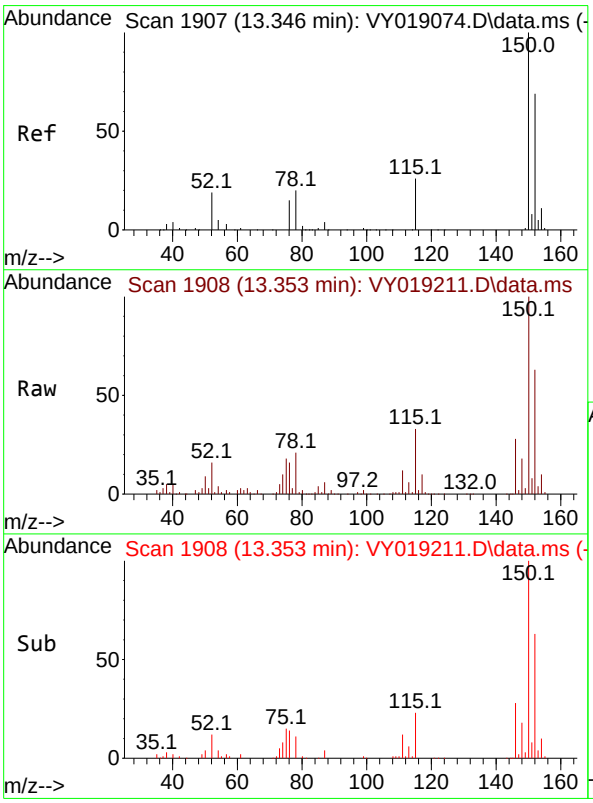
Ion	Ratio	Lower	Upper
173	100		
175	49.2	25.1	75.3
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

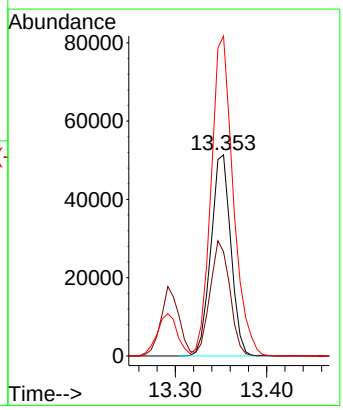
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

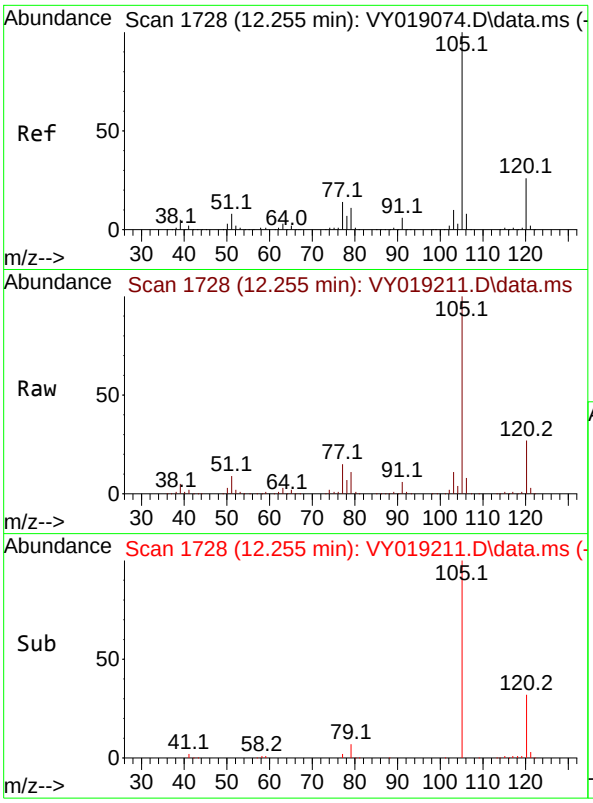


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:152 Resp: 77851

Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.2	84.7
150	176.0	0.0	345.6

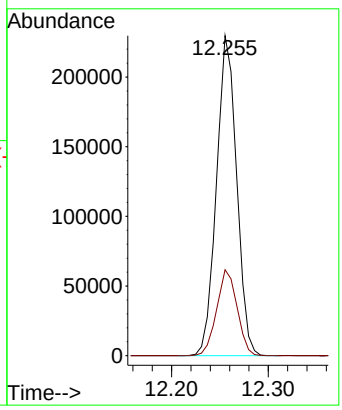




#73
Isopropylbenzene
Concen: 55.606 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:105 Resp: 33179

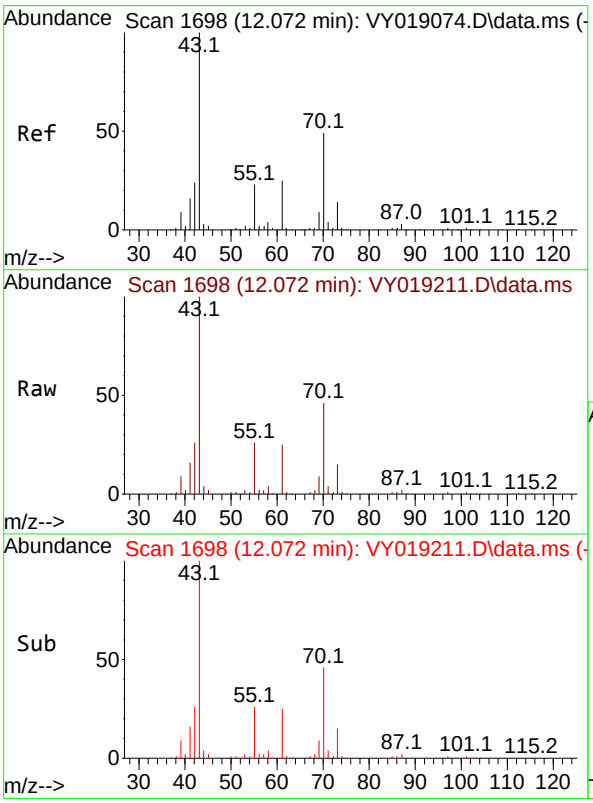
Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

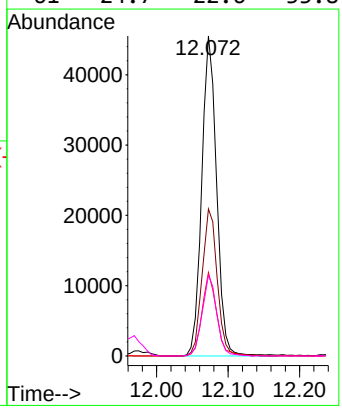
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

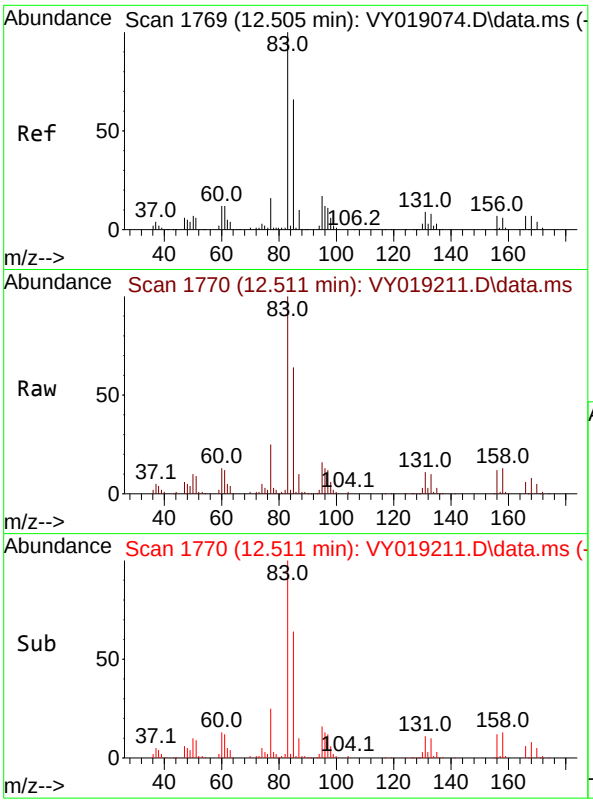


#74
N-amyl acetate
Concen: 50.592 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 43 Resp: 65827

Ion	Ratio	Lower	Upper
43	100		
70	46.8	41.4	62.2
55	25.3	23.3	34.9
61	24.7	22.6	33.8

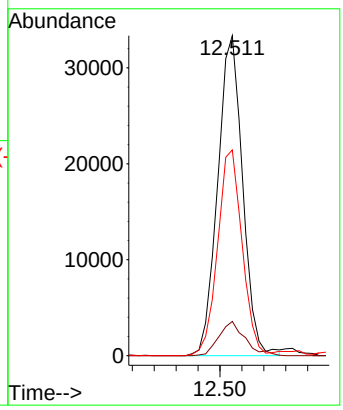




#75
1,1,2,2-Tetrachloroethane
Concen: 49.677 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 83 Resp: 5277

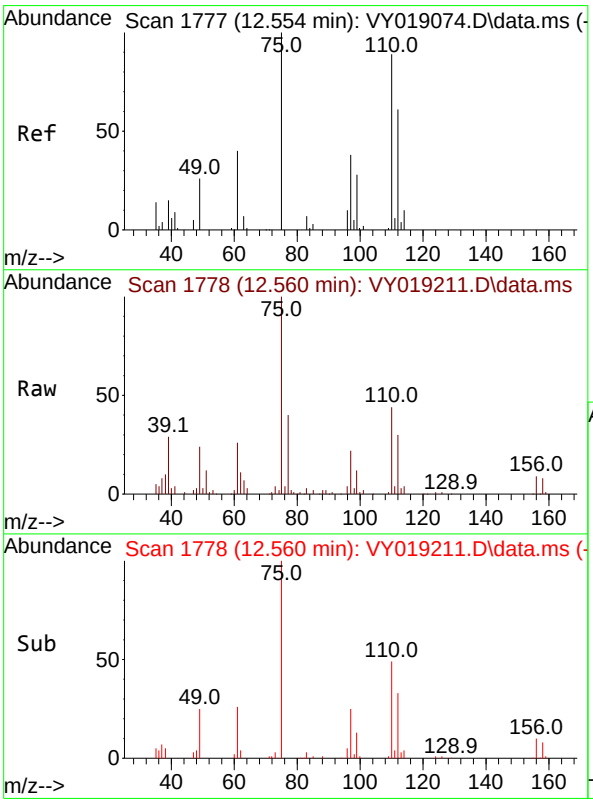
Ion	Ratio	Lower	Upper
83	100		
131	11.2	5.0	14.9
85	63.3	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

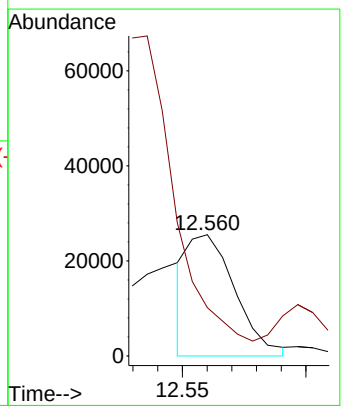
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

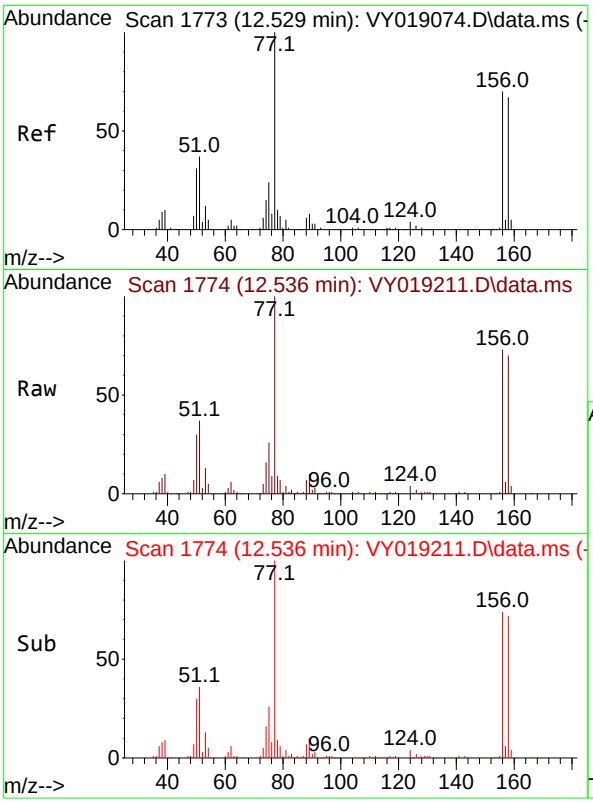


#76
1,2,3-Trichloropropane
Concen: 44.417 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 75 Resp: 34101

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

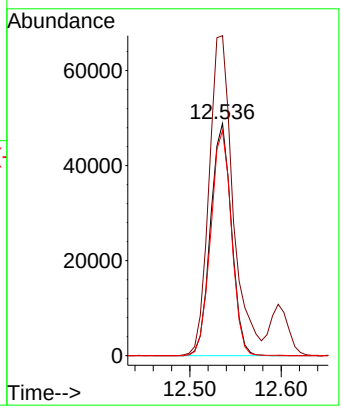




#77
Bromobenzene
Concen: 54.136 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:156 Resp: 7757

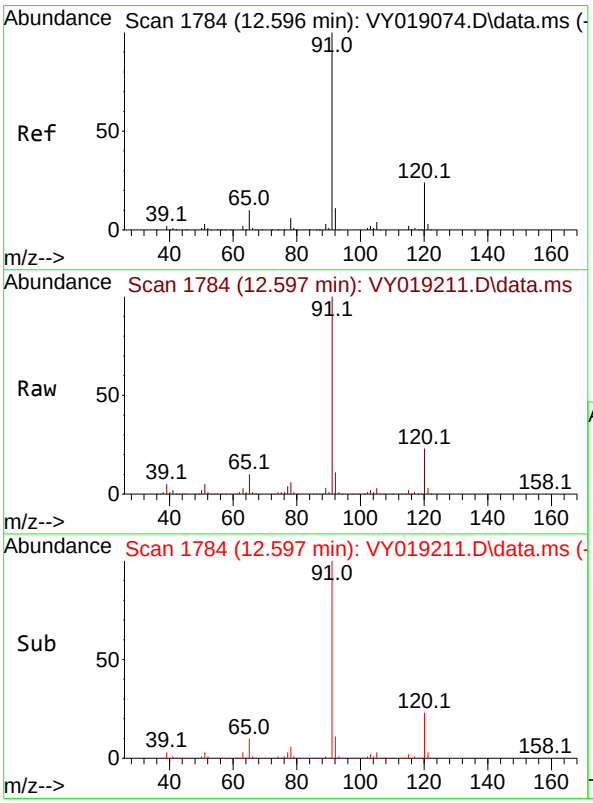
Ion	Ratio	Lower	Upper
156	100		
77	158.2	87.1	261.3
158	96.4	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

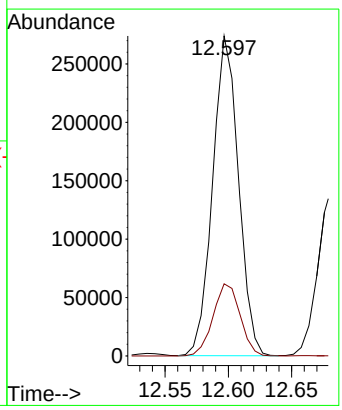
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

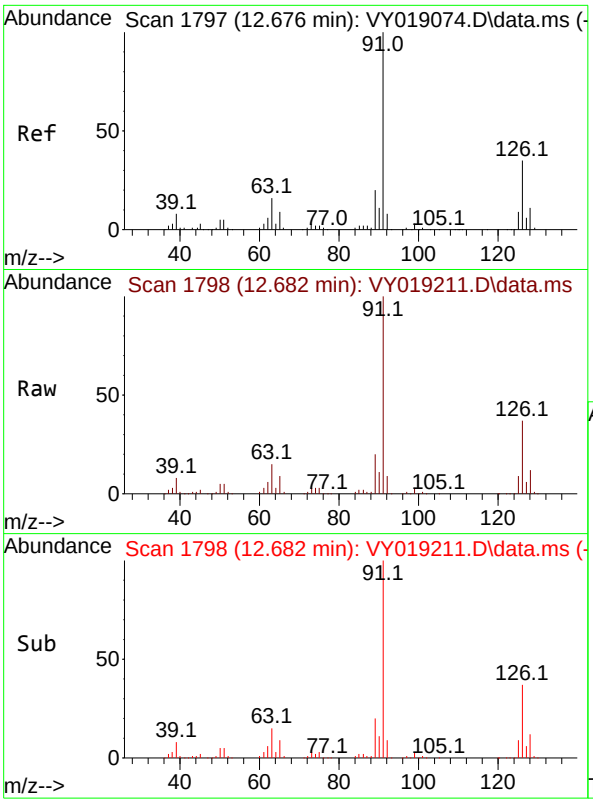


#78
n-propylbenzene
Concen: 54.576 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 91 Resp: 389291

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.5	34.4

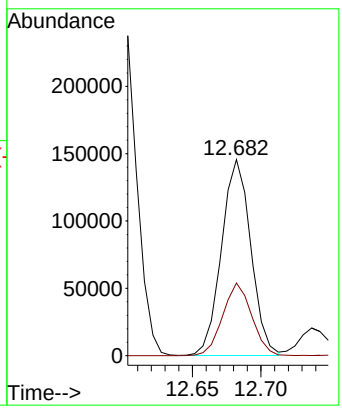




#79
2-Chlorotoluene
Concen: 54.278 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 91 Resp: 21706

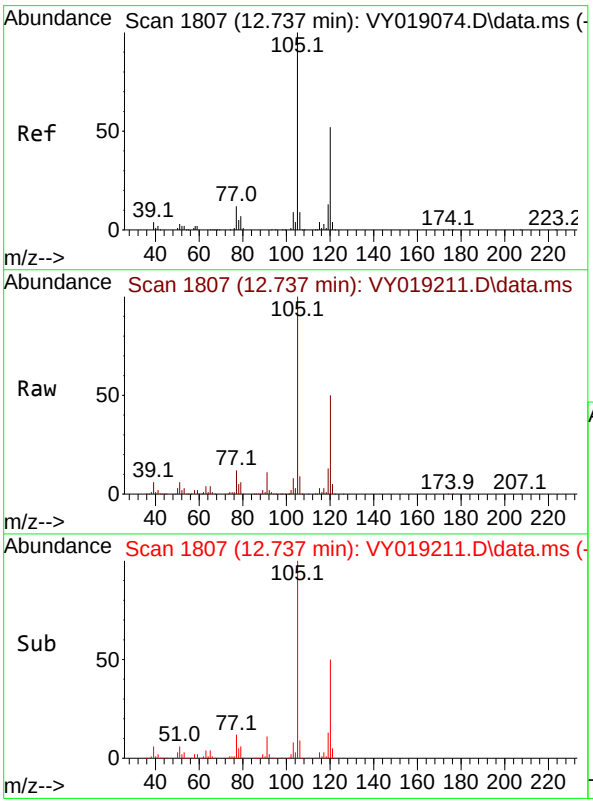
Ion	Ratio	Lower	Upper
91	100		
126	36.7	17.8	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

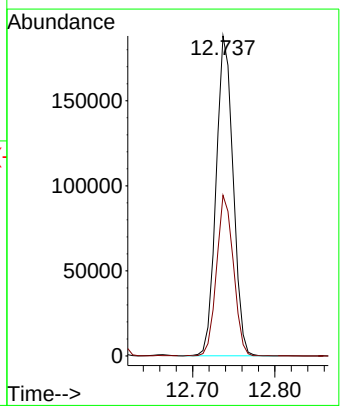
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

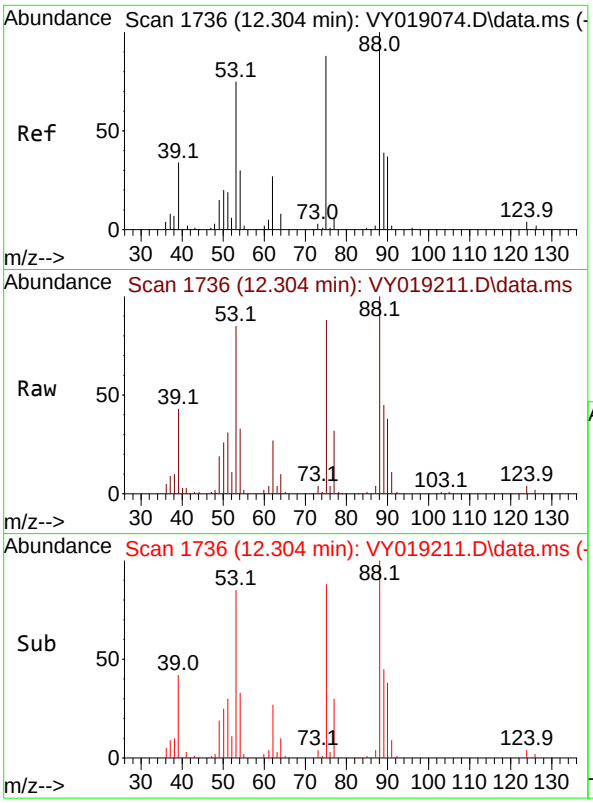


#80
1,3,5-Trimethylbenzene
Concen: 55.646 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:105 Resp: 270494

Ion	Ratio	Lower	Upper
105	100		
120	49.8	25.1	75.2





#81
trans-1,4-Dichloro-2-butene
Concen: 51.954 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

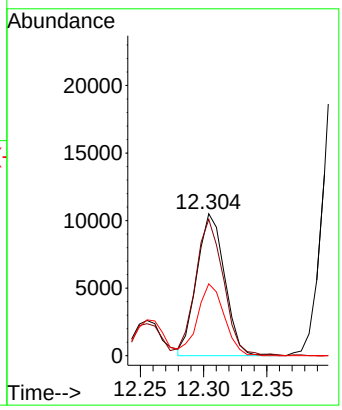
Tgt Ion: 75 Resp: 1615

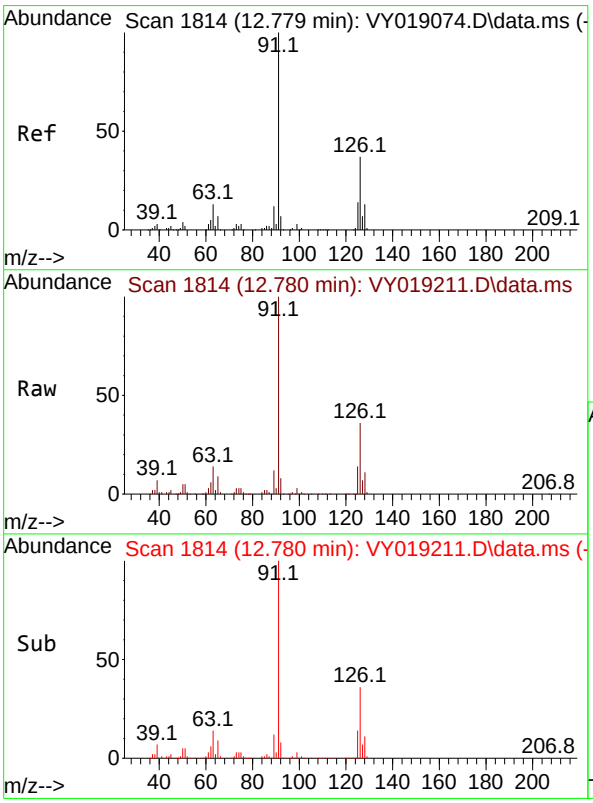
Ion	Ratio	Lower	Upper
75	100		
53	97.0	66.8	100.2
89	48.4	35.8	53.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

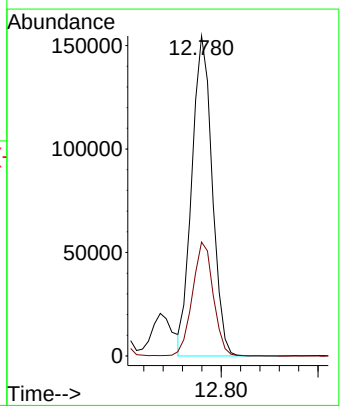


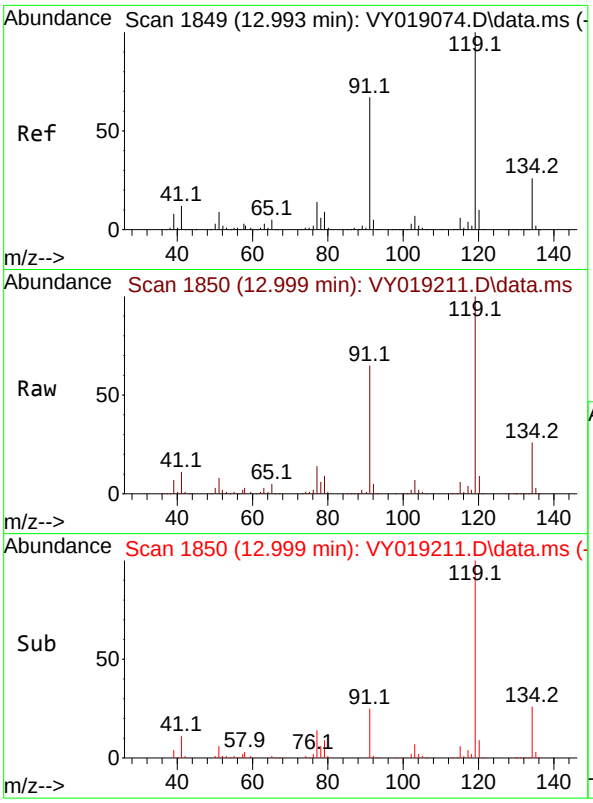


#82
4-Chlorotoluene
Concen: 54.265 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 91 Resp: 225776

Ion	Ratio	Lower	Upper
91	100		
126	36.5	17.6	52.9

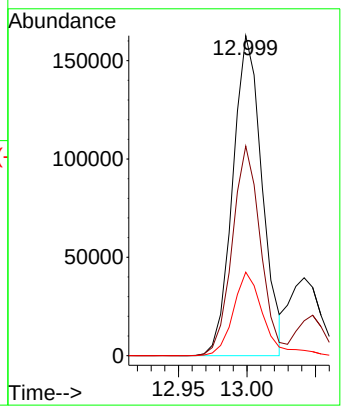




#83
tert-Butylbenzene
Concen: 54.099 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:119 Resp: 24285

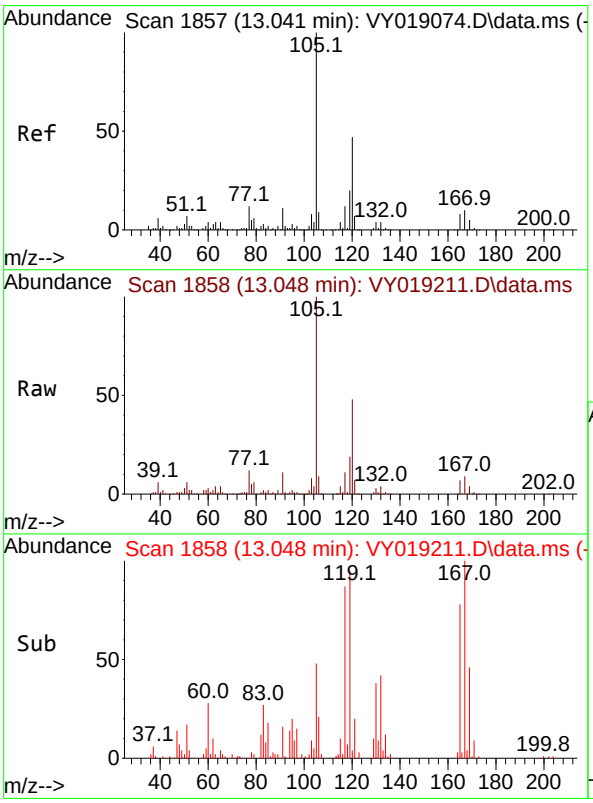
Ion	Ratio	Lower	Upper
119	100		
91	63.5	31.3	93.8
134	26.9	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

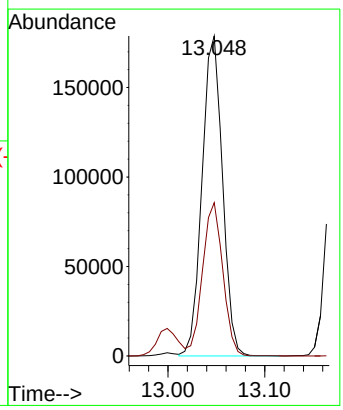
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

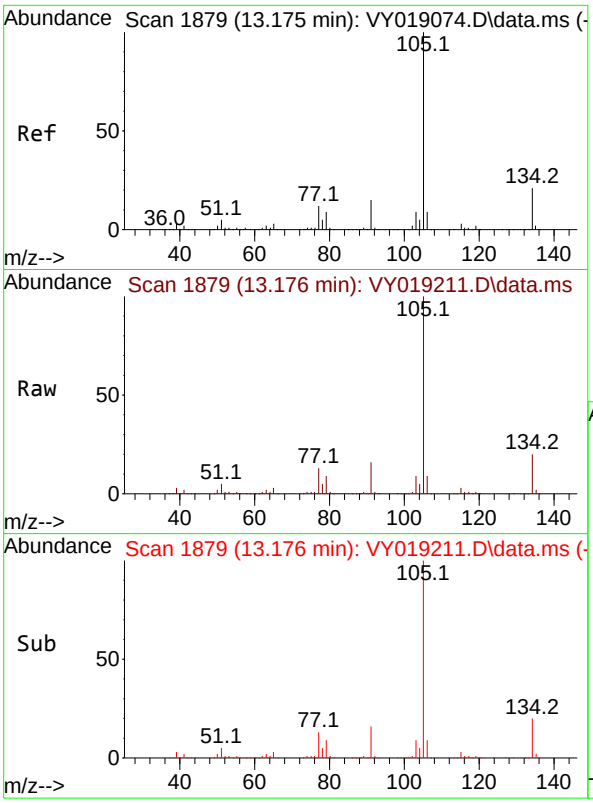


#84
1,2,4-Trimethylbenzene
Concen: 54.284 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:105 Resp: 262992

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.2	69.6





#85
sec-Butylbenzene
Concen: 54.180 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

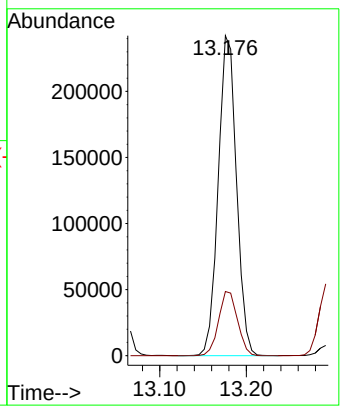
Tgt Ion:105 Resp: 35442

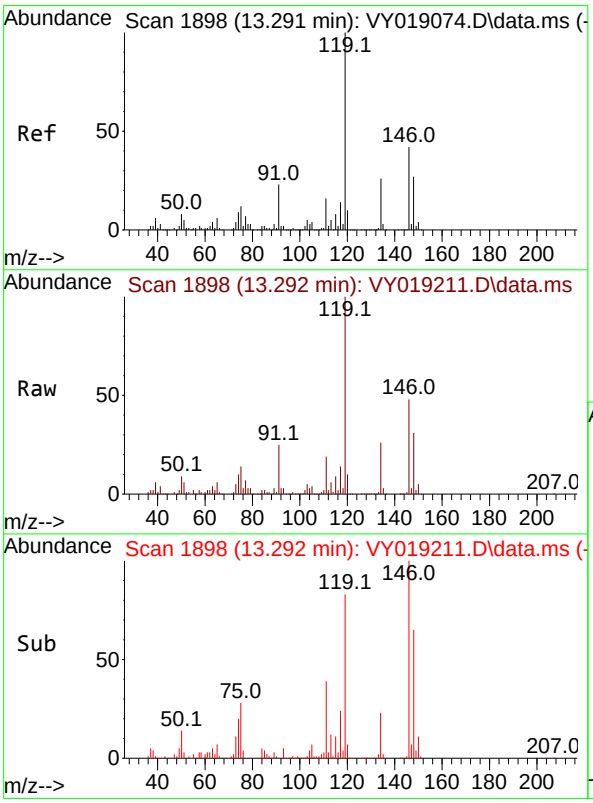
Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.1	30.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

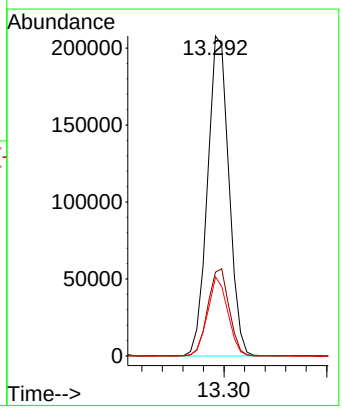


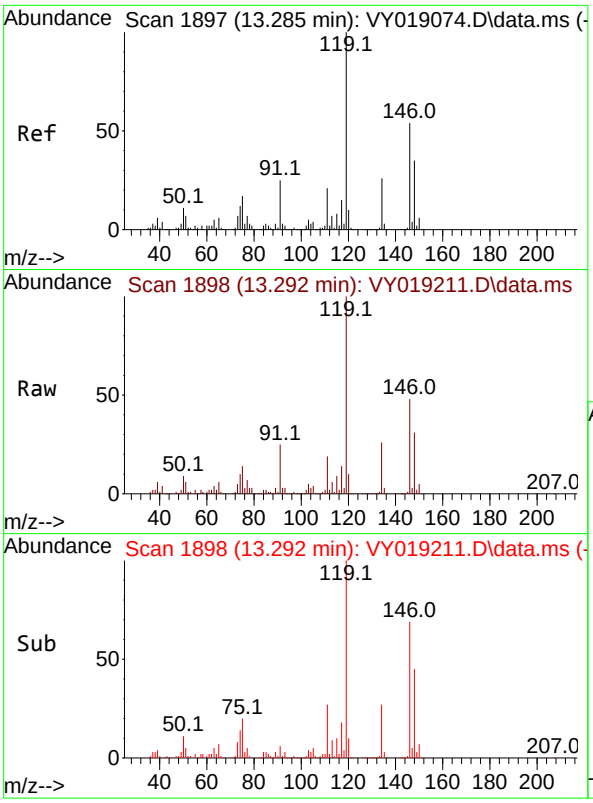


#86
p-Isopropyltoluene
Concen: 55.755 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:119 Resp: 299587

Ion	Ratio	Lower	Upper
119	100		
134	27.2	13.1	39.3
91	23.4	10.7	32.1

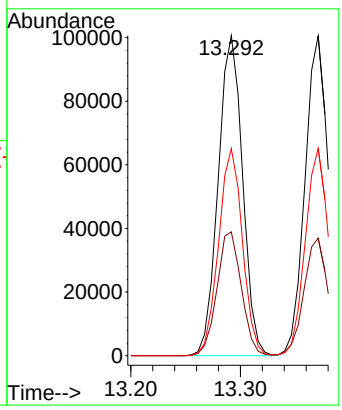




#87
1,3-Dichlorobenzene
Concen: 54.984 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:146 Resp: 15538

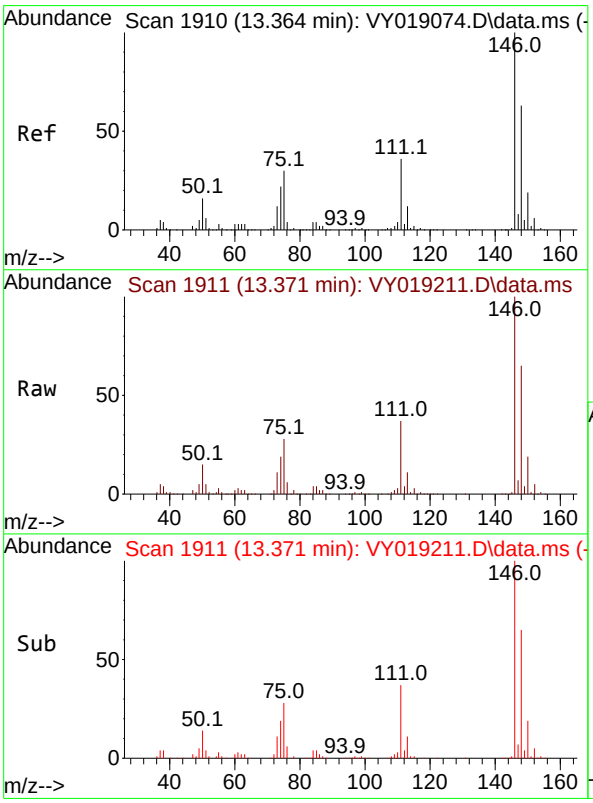
Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.0	57.0
148	63.4	31.7	95.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

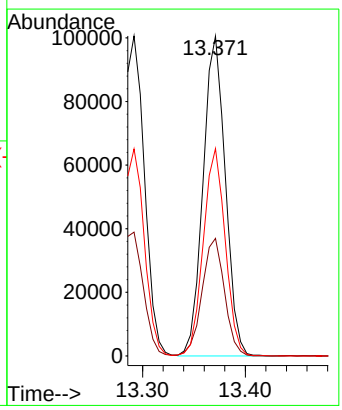
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

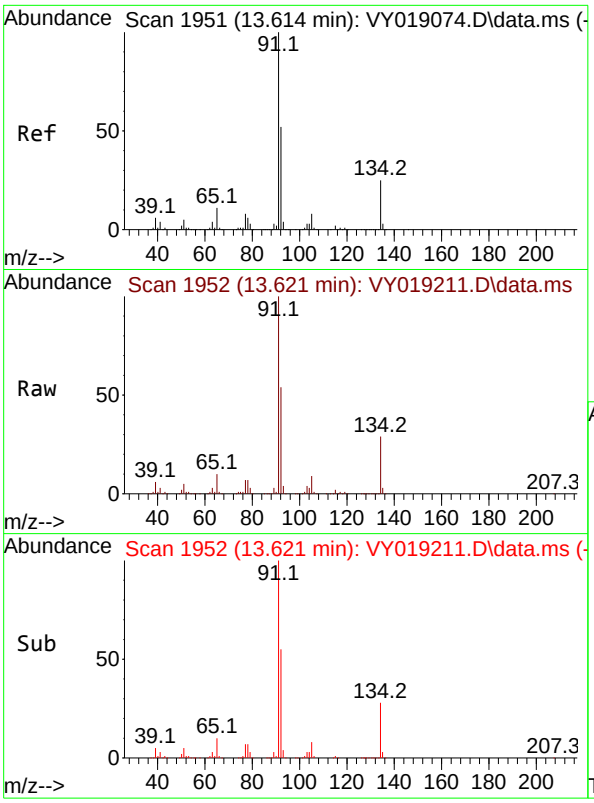


#88
1,4-Dichlorobenzene
Concen: 53.936 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:146 Resp: 151517

Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.4	55.4
148	63.9	32.4	97.2





#89
n-Butylbenzene
Concen: 53.002 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

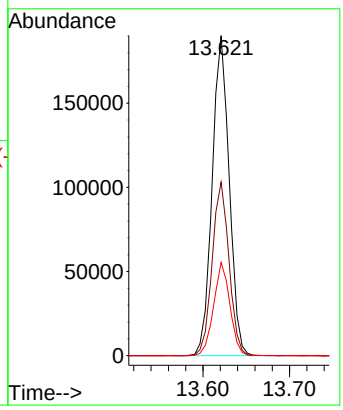
Tgt Ion: 91 Resp: 25965

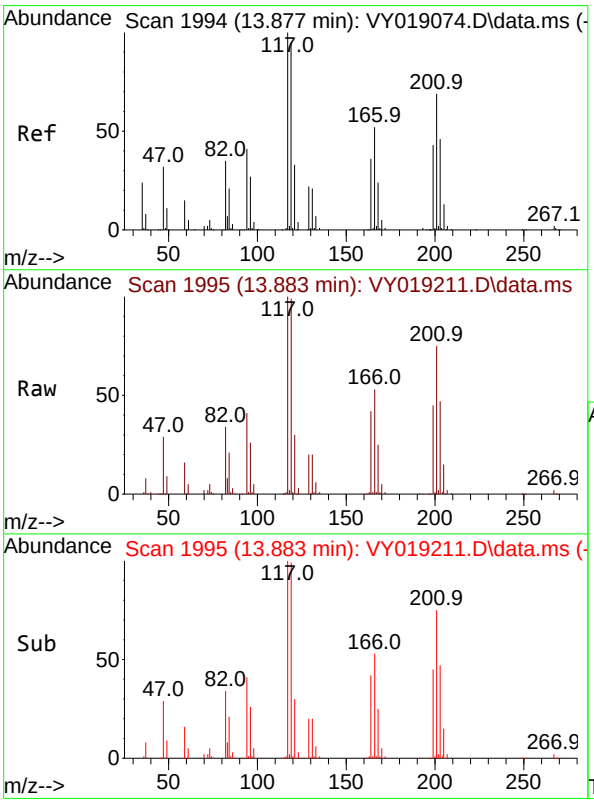
Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.6	79.7
134	27.9	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

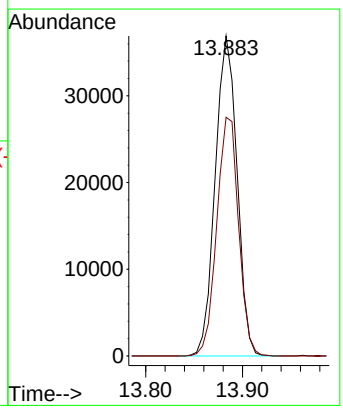


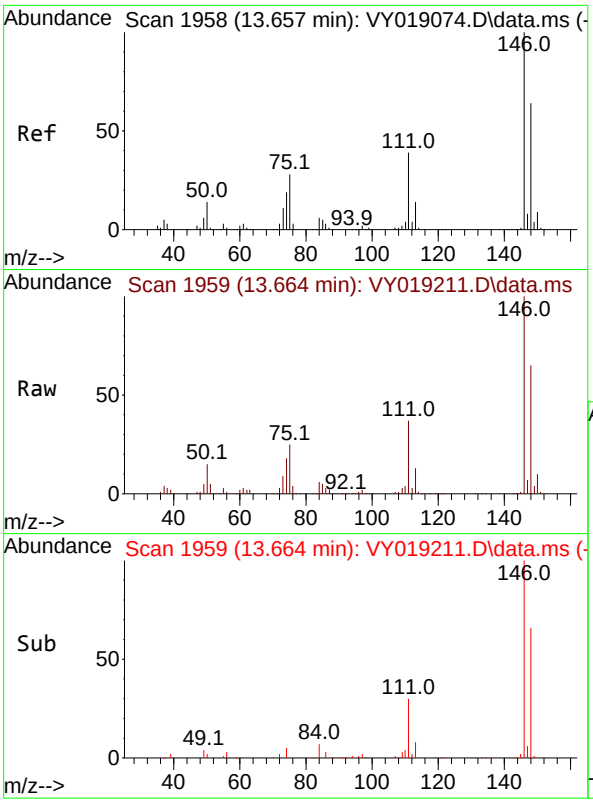


#90
Hexachloroethane
Concen: 54.597 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:117 Resp: 57823

Ion	Ratio	Lower	Upper
117	100		
201	74.5	37.4	112.2

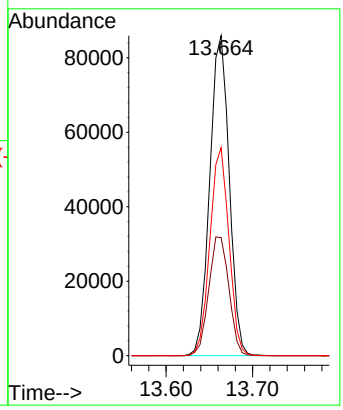




#91
1,2-Dichlorobenzene
Concen: 53.886 ug/l
RT: 13.664 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:146 Resp: 13393

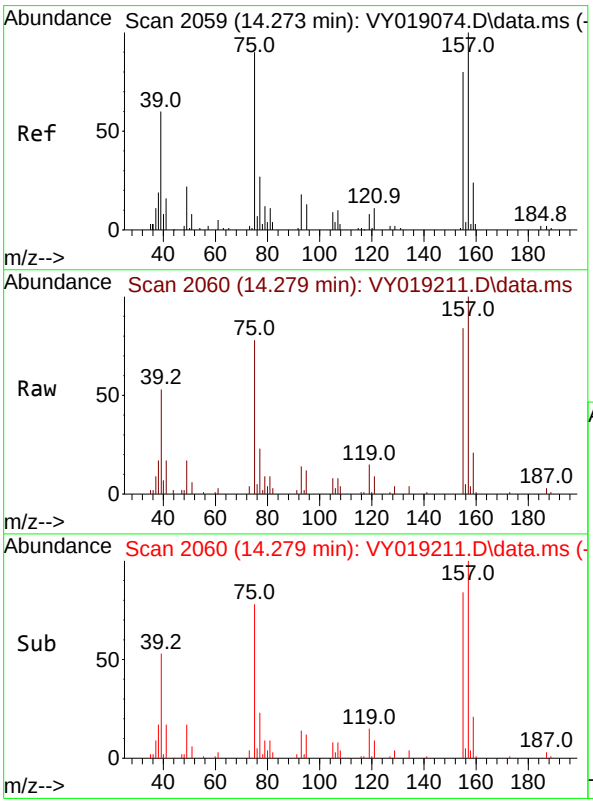
Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.9	59.7
148	63.7	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

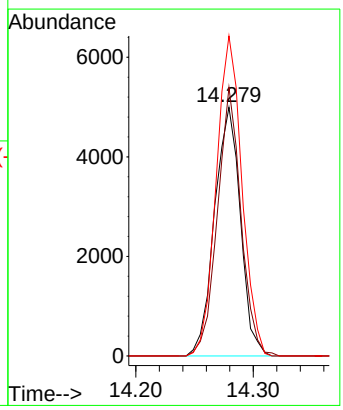
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

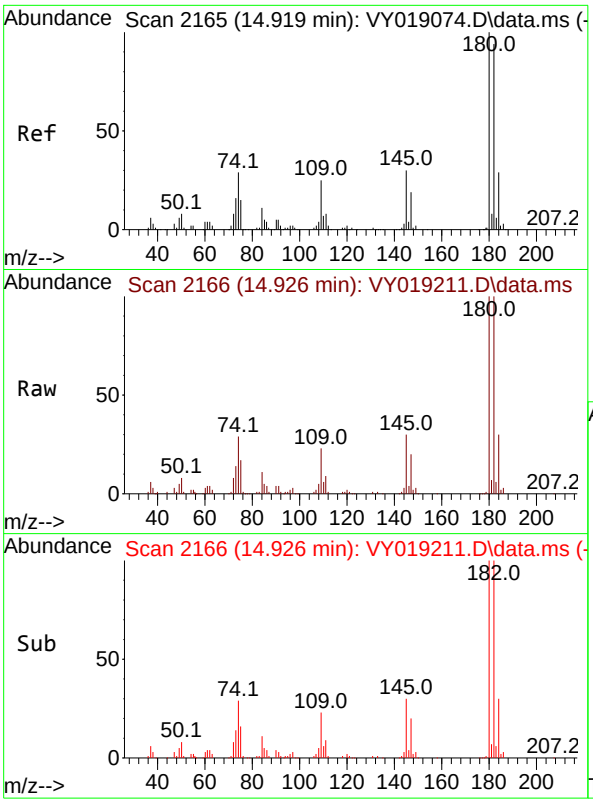


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.946 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion: 75 Resp: 7649

Ion	Ratio	Lower	Upper
75	100		
155	98.3	48.6	145.8
157	127.7	62.7	188.2

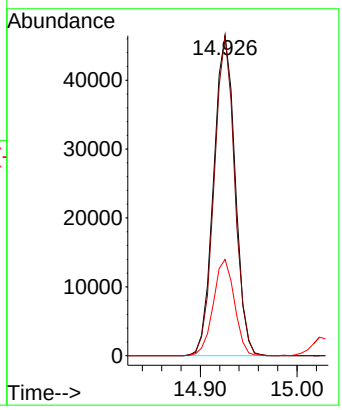




#93
1,2,4-Trichlorobenzene
Concen: 51.026 ug/l
RT: 14.926 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

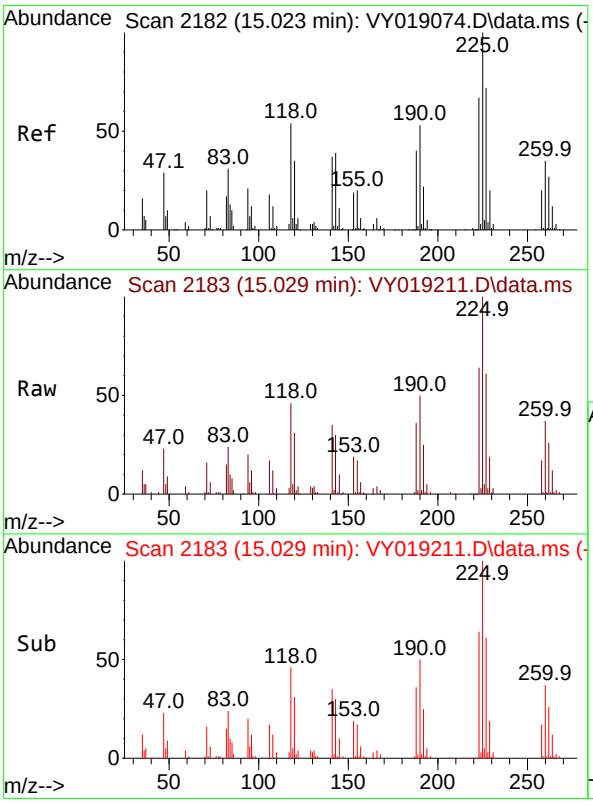
Tgt Ion:180 Resp: 7152

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.9	143.8
145	29.6	14.2	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

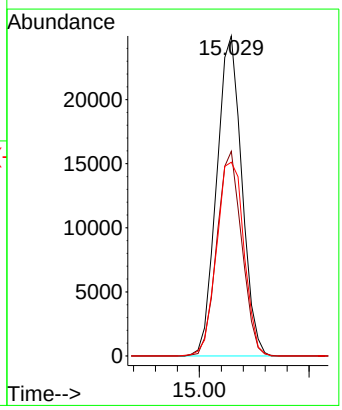
Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

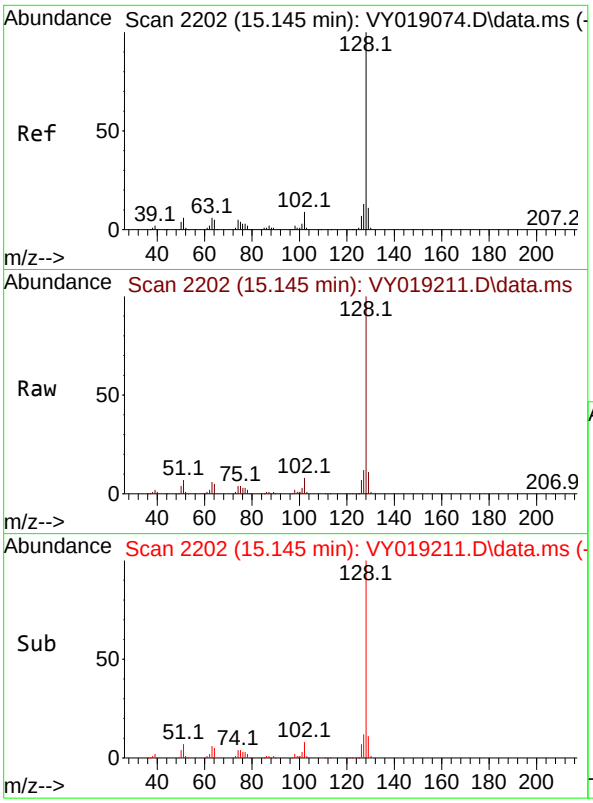


#94
Hexachlorobutadiene
Concen: 54.508 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:225 Resp: 39796

Ion	Ratio	Lower	Upper
225	100		
223	63.3	30.4	91.2
227	65.9	31.9	95.9

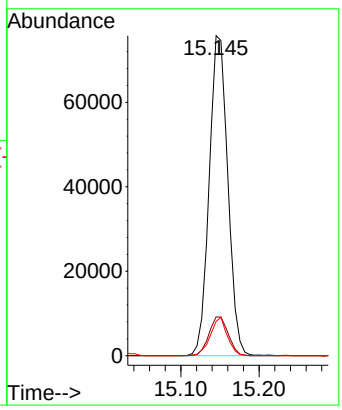




#95
Naphthalene
Concen: 50.012 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:128 Resp: 12510

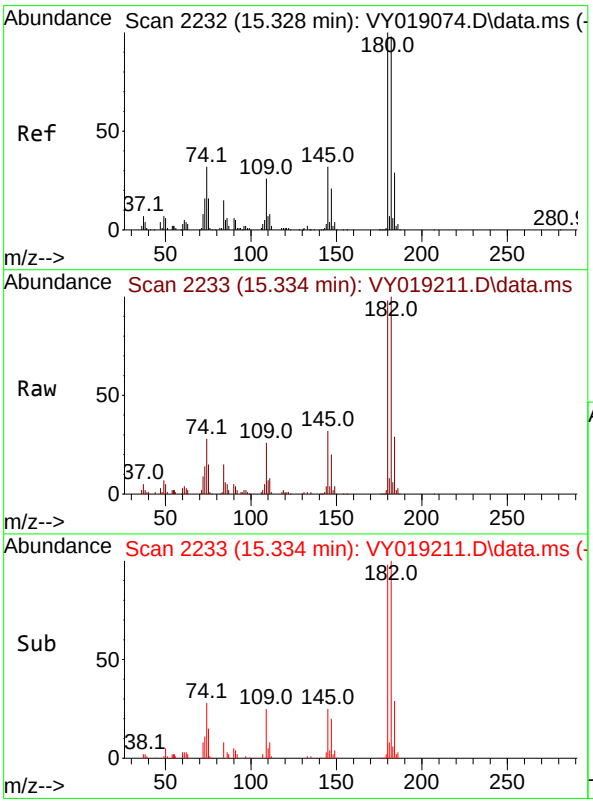
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	10.9	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

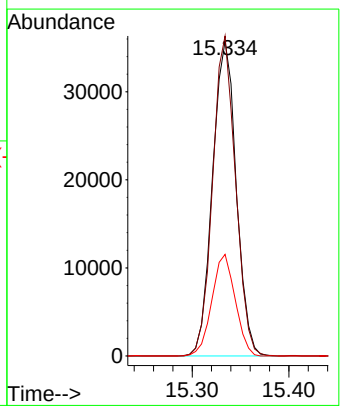
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024



#96
1,2,3-Trichlorobenzene
Concen: 51.458 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY019211.D
Acq: 22 Aug 2024 11:22

Tgt Ion:180 Resp: 60834

Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.6	142.9
145	31.8	15.4	46.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019211.D
Acq On : 22 Aug 2024 11:22
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 23 01:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	83	0.00
2	T	Dichlorodifluoromethane	0.367	0.350	4.6	76	0.00
3	P	Chloromethane	0.661	0.578	12.6	74	0.00
4	C	Vinyl Chloride	0.817	0.751	8.1#	77	0.00
5	T	Bromomethane	0.593	0.592	0.2	92	0.00
6	T	Chloroethane	0.530	0.531	-0.2	86	0.00
7	T	Trichlorofluoromethane	1.235	1.091	11.7	74	0.00
8	T	Diethyl Ether	0.267	0.257	3.7	83	0.01
9	T	1,1,2-Trichlorotrifluoroeth	0.549	0.532	3.1	83	0.00
10	T	Methyl Iodide	0.538	0.610	-13.4	84	0.00
11	T	Tert butyl alcohol	0.056	0.041	26.8#	79	0.00
12	CM	1,1-Dichloroethene	0.499	0.515	-3.2#	88	0.00
13	T	Acrolein	0.042	0.027	35.7#	60	0.01
14	T	Allyl chloride	0.663	0.662	0.2	82	0.00
15	T	Acrylonitrile	0.109	0.110	-0.9	80	0.00
16	T	Acetone	0.093	0.102	-9.7	86	0.00
17	T	Carbon Disulfide	1.407	1.408	-0.1	83	0.00
18	T	Methyl Acetate	0.285	0.270	5.3	80	0.00
19	T	Methyl tert-butyl Ether	1.209	1.250	-3.4	83	0.01
20	T	Methylene Chloride	0.833	0.592	28.9#	82	0.00
21	T	trans-1,2-Dichloroethene	0.557	0.578	-3.8	85	0.00
22	T	Diisopropyl ether	1.518	1.641	-8.1	89	0.01
23	T	Vinyl Acetate	1.202	1.295	-7.7	86	0.00
24	P	1,1-Dichloroethane	0.928	0.957	-3.1	88	0.00
25	T	2-Butanone	0.150	0.150	0.0	80	0.00
26	T	2,2-Dichloropropane	0.752	0.804	-6.9	90	0.01
27	T	cis-1,2-Dichloroethene	0.656	0.700	-6.7	88	0.00
28	T	Bromochloromethane	0.389	0.396	-1.8	90	0.01
29	T	Tetrahydrofuran	0.096	0.094	2.1	80	0.00
30	C	Chloroform	1.034	1.109	-7.3#	88	0.00
31	T	Cyclohexane	0.807	0.752	6.8	84	0.00
32	T	1,1,1-Trichloroethane	0.909	0.985	-8.4	89	0.00
33	S	1,2-Dichloroethane-d4	0.501	0.527	-5.2	92	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
35	S	Dibromofluoromethane	0.327	0.352	-7.6	91	0.00
36	T	1,1-Dichloropropene	0.449	0.464	-3.3	88	0.00
37	T	Ethyl Acetate	0.199	0.205	-3.0	79	0.00
38	T	Carbon Tetrachloride	0.520	0.577	-11.0	90	0.00
39	T	Methylcyclohexane	0.576	0.594	-3.1	86	0.00
40	TM	Benzene	1.377	1.495	-8.6	90	0.00
41	T	Methacrylonitrile	0.109	0.115	-5.5	80	-0.02
42	TM	1,2-Dichloroethane	0.372	0.394	-5.9	86	0.00
43	T	Isopropyl Acetate	0.402	0.406	-1.0	81	0.00
44	TM	Trichloroethene	0.384	0.408	-6.2	90	0.00
45	C	1,2-Dichloropropane	0.307	0.324	-5.5#	88	0.00
46	T	Dibromomethane	0.199	0.210	-5.5	84	0.00
47	T	Bromodichloromethane	0.488	0.528	-8.2	89	0.00
48	T	Methyl methacrylate	0.179	0.184	-2.8	81	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019211.D
Acq On : 22 Aug 2024 11:22
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 23 01:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	0.002	0.003	-50.0#	85	0.00
50	S	Toluene-d8	1.177	1.287	-9.3	95	0.00
51	T	4-Methyl-2-Pentanone	0.213	0.214	-0.5	77	0.00
52	CM	Toluene	0.904	1.001	-10.7#	92	0.00
53	T	t-1,3-Dichloropropene	0.405	0.446	-10.1	88	0.00
54	T	cis-1,3-Dichloropropene	0.487	0.536	-10.1	86	0.00
55	T	1,1,2-Trichloroethane	0.256	0.276	-7.8	88	0.00
56	T	Ethyl methacrylate	0.335	0.364	-8.7	85	0.00
57	T	1,3-Dichloropropane	0.418	0.447	-6.9	86	0.00
58	T	2-Chloroethyl Vinyl ether	0.159	0.161	-1.3	84	0.00
59	T	2-Hexanone	0.147	0.149	-1.4	79	0.00
60	T	Dibromochloromethane	0.349	0.385	-10.3	89	0.00
61	T	1,2-Dibromoethane	0.248	0.261	-5.2	84	0.00
62	S	4-Bromofluorobenzene	0.401	0.430	-7.2	89	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
64	T	Tetrachloroethene	0.437	0.462	-5.7	92	0.00
65	PM	Chlorobenzene	1.151	1.225	-6.4	90	0.00
66	T	1,1,1,2-Tetrachloroethane	0.405	0.453	-11.9	93	0.00
67	C	Ethyl Benzene	1.998	2.184	-9.3#	91	0.00
68	T	m/p-Xylenes	0.793	0.893	-12.6	93	0.00
69	T	o-Xylene	0.734	0.817	-11.3	90	0.00
70	T	Styrene	1.252	1.415	-13.0	91	0.00
71	P	Bromoform	0.231	0.257	-11.3	88	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	0.00
73	T	Isopropylbenzene	3.832	4.262	-11.2	92	0.00
74	T	N-amyl acetate	0.836	0.846	-1.2	80	0.00
75	P	1,1,2,2-Tetrachloroethane	0.682	0.678	0.6	82	0.00
76	T	1,2,3-Trichloropropane	0.493	0.438	11.2	77	0.00
77	T	Bromobenzene	0.920	0.996	-8.3	91	0.00
78	T	n-propylbenzene	4.581	5.000	-9.1	90	0.00
79	T	2-Chlorotoluene	2.568	2.788	-8.6	90	0.00
80	T	1,3,5-Trimethylbenzene	3.122	3.475	-11.3	91	0.00
81	T	trans-1,4-Dichloro-2-butene	0.200	0.207	-3.5	84	0.00
82	T	4-Chlorotoluene	2.672	2.900	-8.5	90	0.00
83	T	tert-Butylbenzene	2.883	3.119	-8.2	90	0.00
84	T	1,2,4-Trimethylbenzene	3.112	3.378	-8.5	89	0.00
85	T	sec-Butylbenzene	4.201	4.553	-8.4	90	0.00
86	T	p-Isopropyltoluene	3.451	3.848	-11.5	91	0.00
87	T	1,3-Dichlorobenzene	1.815	1.996	-10.0	92	0.00
88	T	1,4-Dichlorobenzene	1.804	1.946	-7.9	90	0.00
89	T	n-Butylbenzene	3.146	3.335	-6.0	85	0.00
90	T	Hexachloroethane	0.680	0.743	-9.3	89	0.00
91	T	1,2-Dichlorobenzene	1.596	1.720	-7.8	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.100	0.098	2.0	79	0.00
93	T	1,2,4-Trichlorobenzene	0.900	0.919	-2.1	82	0.00
94	T	Hexachlorobutadiene	0.469	0.511	-9.0	86	0.00
95	T	Naphthalene	1.607	1.607	0.0	74	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019211.D
Acq On : 22 Aug 2024 11:22
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 23 01:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	0.759	0.781	-2.9	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019211.D
Acq On : 22 Aug 2024 11:22
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 23 01:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	83	0.00
2	T	Dichlorodifluoromethane	50.000	47.712	4.6	76	0.00
3	P	Chloromethane	50.000	43.717	12.6	74	0.00
4	C	Vinyl Chloride	50.000	45.958	8.1#	77	0.00
5	T	Bromomethane	50.000	60.596	-21.2	92	0.00
6	T	Chloroethane	50.000	51.302	-2.6	86	0.00
7	T	Trichlorofluoromethane	50.000	44.158	11.7	74	0.00
8	T	Diethyl Ether	50.000	48.258	3.5	83	0.01
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.430	3.1	83	0.00
10	T	Methyl Iodide	50.000	56.696	-13.4	84	0.00
11	T	Tert butyl alcohol	250.000	236.885	5.2	79	0.00
12	CM	1,1-Dichloroethene	50.000	51.635	-3.3#	88	0.00
13	T	Acrolein	250.000	175.858	29.7#	60	0.01
14	T	Allyl chloride	50.000	49.898	0.2	82	0.00
15	T	Acrylonitrile	250.000	251.648	-0.7	80	0.00
16	T	Acetone	250.000	273.458	-9.4	86	0.00
17	T	Carbon Disulfide	50.000	50.041	-0.1	83	0.00
18	T	Methyl Acetate	50.000	47.290	5.4	80	0.00
19	T	Methyl tert-butyl Ether	50.000	51.673	-3.3	83	0.01
20	T	Methylene Chloride	50.000	51.602	-3.2	82	0.00
21	T	trans-1,2-Dichloroethene	50.000	51.877	-3.8	85	0.00
22	T	Diisopropyl ether	50.000	54.063	-8.1	89	0.01
23	T	Vinyl Acetate	250.000	269.450	-7.8	86	0.00
24	P	1,1-Dichloroethane	50.000	51.528	-3.1	88	0.00
25	T	2-Butanone	250.000	250.232	-0.1	80	0.00
26	T	2,2-Dichloropropane	50.000	53.503	-7.0	90	0.01
27	T	cis-1,2-Dichloroethene	50.000	53.353	-6.7	88	0.00
28	T	Bromochloromethane	50.000	50.873	-1.7	90	0.01
29	T	Tetrahydrofuran	250.000	244.986	2.0	80	0.00
30	C	Chloroform	50.000	53.601	-7.2#	88	0.00
31	T	Cyclohexane	50.000	52.651	-5.3	84	0.00
32	T	1,1,1-Trichloroethane	50.000	54.150	-8.3	89	0.00
33	S	1,2-Dichloroethane-d4	50.000	52.545	-5.1	92	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	84	0.00
35	S	Dibromofluoromethane	50.000	53.872	-7.7	91	0.00
36	T	1,1-Dichloropropene	50.000	51.696	-3.4	88	0.00
37	T	Ethyl Acetate	50.000	51.442	-2.9	79	0.00
38	T	Carbon Tetrachloride	50.000	55.485	-11.0	90	0.00
39	T	Methylcyclohexane	50.000	51.556	-3.1	86	0.00
40	TM	Benzene	50.000	54.306	-8.6	90	0.00
41	T	Methacrylonitrile	50.000	52.928	-5.9	80	-0.02
42	TM	1,2-Dichloroethane	50.000	52.928	-5.9	86	0.00
43	T	Isopropyl Acetate	50.000	50.432	-0.9	81	0.00
44	TM	Trichloroethene	50.000	53.099	-6.2	90	0.00
45	C	1,2-Dichloropropane	50.000	52.849	-5.7#	88	0.00
46	T	Dibromomethane	50.000	52.702	-5.4	84	0.00
47	T	Bromodichloromethane	50.000	54.039	-8.1	89	0.00
48	T	Methyl methacrylate	50.000	51.304	-2.6	81	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019211.D
Acq On : 22 Aug 2024 11:22
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 23 01:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 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	1039.019	-3.9	85	0.00
50	S	Toluene-d8	50.000	54.704	-9.4	95	0.00
51	T	4-Methyl-2-Pentanone	250.000	250.076	-0.0	77	0.00
52	CM	Toluene	50.000	55.351	-10.7#	92	0.00
53	T	t-1,3-Dichloropropene	50.000	55.061	-10.1	88	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.064	-10.1	86	0.00
55	T	1,1,2-Trichloroethane	50.000	53.836	-7.7	88	0.00
56	T	Ethyl methacrylate	50.000	54.235	-8.5	85	0.00
57	T	1,3-Dichloropropane	50.000	53.570	-7.1	86	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	253.684	-1.5	84	0.00
59	T	2-Hexanone	250.000	253.753	-1.5	79	0.00
60	T	Dibromochloromethane	50.000	55.145	-10.3	89	0.00
61	T	1,2-Dibromoethane	50.000	52.709	-5.4	84	0.00
62	S	4-Bromofluorobenzene	50.000	53.664	-7.3	89	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	84	0.00
64	T	Tetrachloroethene	50.000	52.883	-5.8	92	0.00
65	PM	Chlorobenzene	50.000	53.188	-6.4	90	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	55.884	-11.8	93	0.00
67	C	Ethyl Benzene	50.000	54.639	-9.3#	91	0.00
68	T	m/p-Xylenes	100.000	112.613	-12.6	93	0.00
69	T	o-Xylene	50.000	55.631	-11.3	90	0.00
70	T	Styrene	50.000	56.519	-13.0	91	0.00
71	P	Bromoform	50.000	55.513	-11.0	88	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	83	0.00
73	T	Isopropylbenzene	50.000	55.606	-11.2	92	0.00
74	T	N-amyl acetate	50.000	50.592	-1.2	80	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.677	0.6	82	0.00
76	T	1,2,3-Trichloropropane	50.000	44.417	11.2	77	0.00
77	T	Bromobenzene	50.000	54.136	-8.3	91	0.00
78	T	n-propylbenzene	50.000	54.576	-9.2	90	0.00
79	T	2-Chlorotoluene	50.000	54.278	-8.6	90	0.00
80	T	1,3,5-Trimethylbenzene	50.000	55.646	-11.3	91	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	51.954	-3.9	84	0.00
82	T	4-Chlorotoluene	50.000	54.265	-8.5	90	0.00
83	T	tert-Butylbenzene	50.000	54.099	-8.2	90	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.284	-8.6	89	0.00
85	T	sec-Butylbenzene	50.000	54.180	-8.4	90	0.00
86	T	p-Isopropyltoluene	50.000	55.755	-11.5	91	0.00
87	T	1,3-Dichlorobenzene	50.000	54.984	-10.0	92	0.00
88	T	1,4-Dichlorobenzene	50.000	53.936	-7.9	90	0.00
89	T	n-Butylbenzene	50.000	53.002	-6.0	85	0.00
90	T	Hexachloroethane	50.000	54.597	-9.2	89	0.00
91	T	1,2-Dichlorobenzene	50.000	53.886	-7.8	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.946	2.1	79	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.026	-2.1	82	0.00
94	T	Hexachlorobutadiene	50.000	54.508	-9.0	86	0.00
95	T	Naphthalene	50.000	50.012	-0.0	74	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019211.D
Acq On : 22 Aug 2024 11:22
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 23 01:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.458	-2.9	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

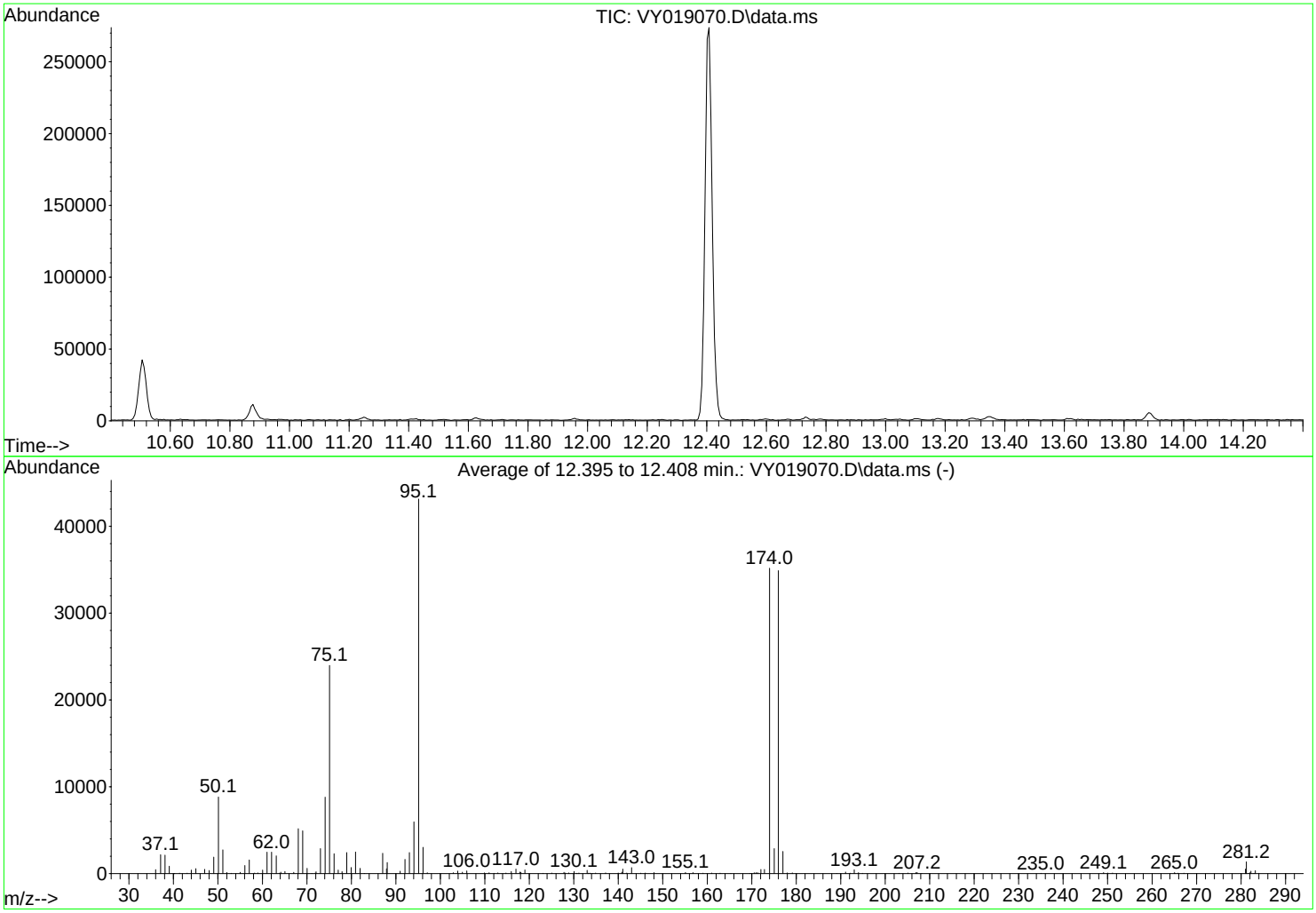
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081524\
Data File : VY019070.D
Acq On : 15 Aug 2024 16:51
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Title : SW846 8260
Last Update : Fri Aug 16 05:10:30 2024



AutoFind: Scans 1751, 1752, 1753; Background Corrected with Scan 1744

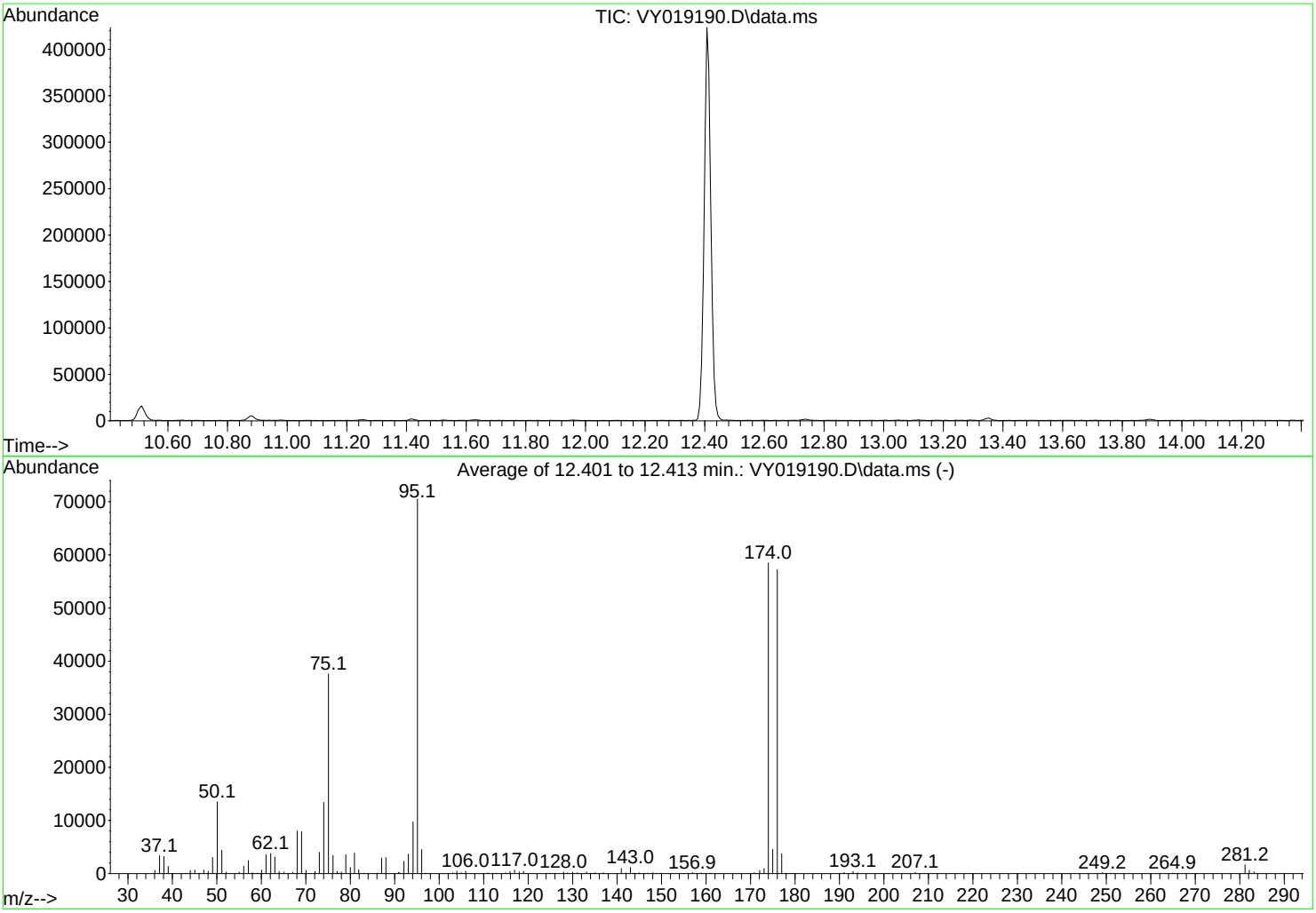
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	8824	PASS
75	95	30	60	55.6	23968	PASS
95	95	100	100	100.0	43144	PASS
96	95	5	9	7.0	3035	PASS
173	174	0.00	2	1.4	477	PASS
174	95	50	100	81.5	35173	PASS
175	174	5	9	8.2	2881	PASS
176	174	95	101	99.2	34888	PASS
177	176	5	9	7.3	2561	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019190.D
Acq On : 22 Aug 2024 00:38
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Title : SW846 8260
Last Update : Fri Aug 16 05:10:30 2024



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

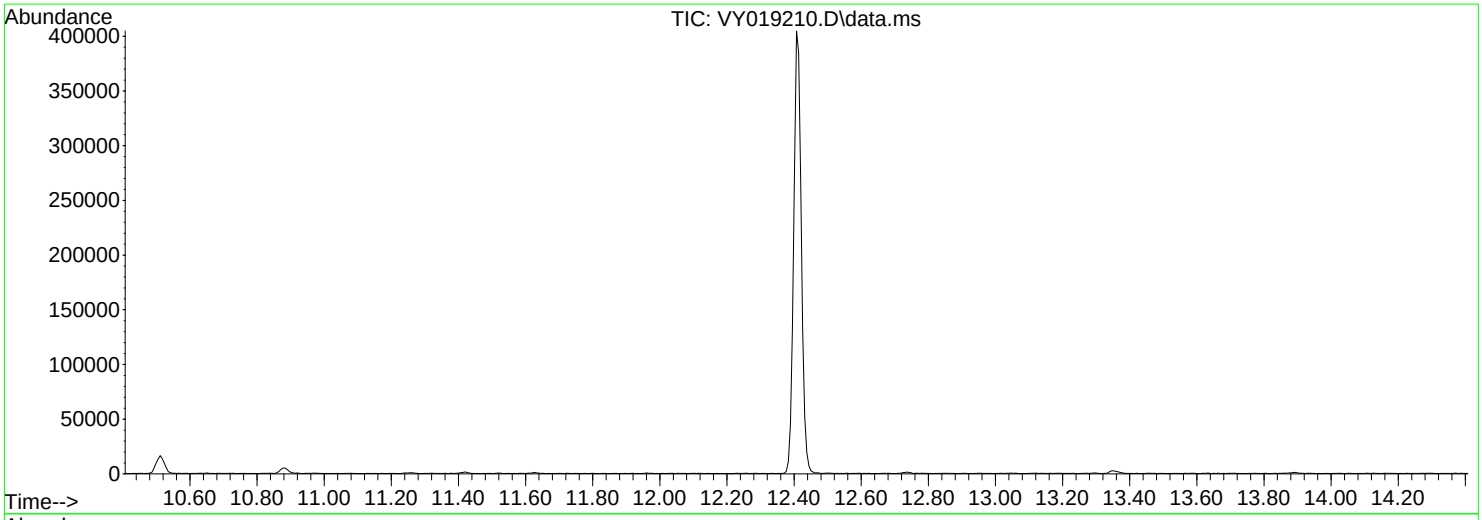
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	13537	PASS
75	95	30	60	53.3	37592	PASS
95	95	100	100	100.0	70525	PASS
96	95	5	9	6.4	4533	PASS
173	174	0.00	2	1.7	978	PASS
174	95	50	100	83.0	58507	PASS
175	174	5	9	7.8	4564	PASS
176	174	95	101	97.9	57256	PASS
177	176	5	9	6.5	3744	PASS

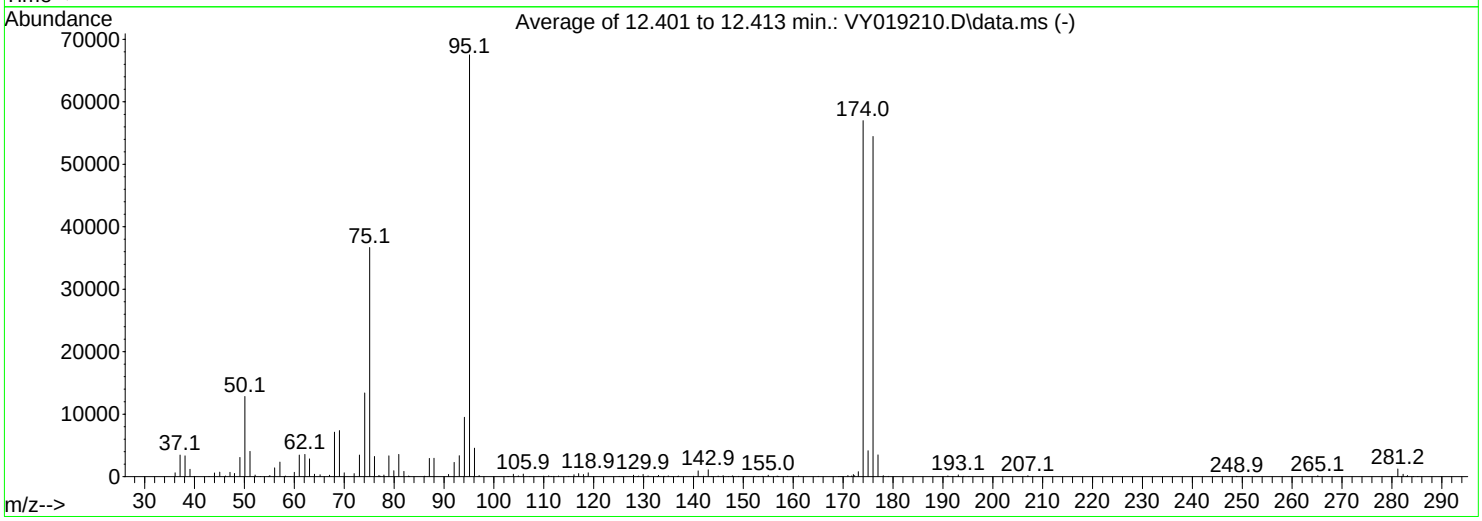
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019210.D
Acq On : 22 Aug 2024 10:21
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Title : SW846 8260
Last Update : Fri Aug 16 05:10:30 2024





AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1745

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	12839	PASS
75	95	30	60	54.3	36680	PASS
95	95	100	100	100.0	67520	PASS
96	95	5	9	6.8	4568	PASS
173	174	0.00	2	1.4	786	PASS
174	95	50	100	84.4	56997	PASS
175	174	5	9	7.3	4151	PASS
176	174	95	101	95.6	54461	PASS
177	176	5	9	6.4	3478	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:	VY0821SBL02	SDG No.:	P3671
Lab Sample ID:	VY0821SBL02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019192.D	1		08/22/24 02:11	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg

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:	VY0821SBL02	SDG No.:	P3671
Lab Sample ID:	VY0821SBL02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019192.D	1		08/22/24 02:11	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	2.10	U	2.10	15.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.0		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	49.5		70 (58) - 130 (134)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		70 (29) - 130 (146)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	118000	7.701			
540-36-3	1,4-Difluorobenzene	199000	8.61			
3114-55-4	Chlorobenzene-d5	167000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	72800	13.353			

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_Y\Data\VY082124\
Data File : VY019192.D
Acq On : 22 Aug 2024 02:11
Operator : SY/MD
Sample : VY0821SBL02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBL02

Quant Time: Aug 22 03:47:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

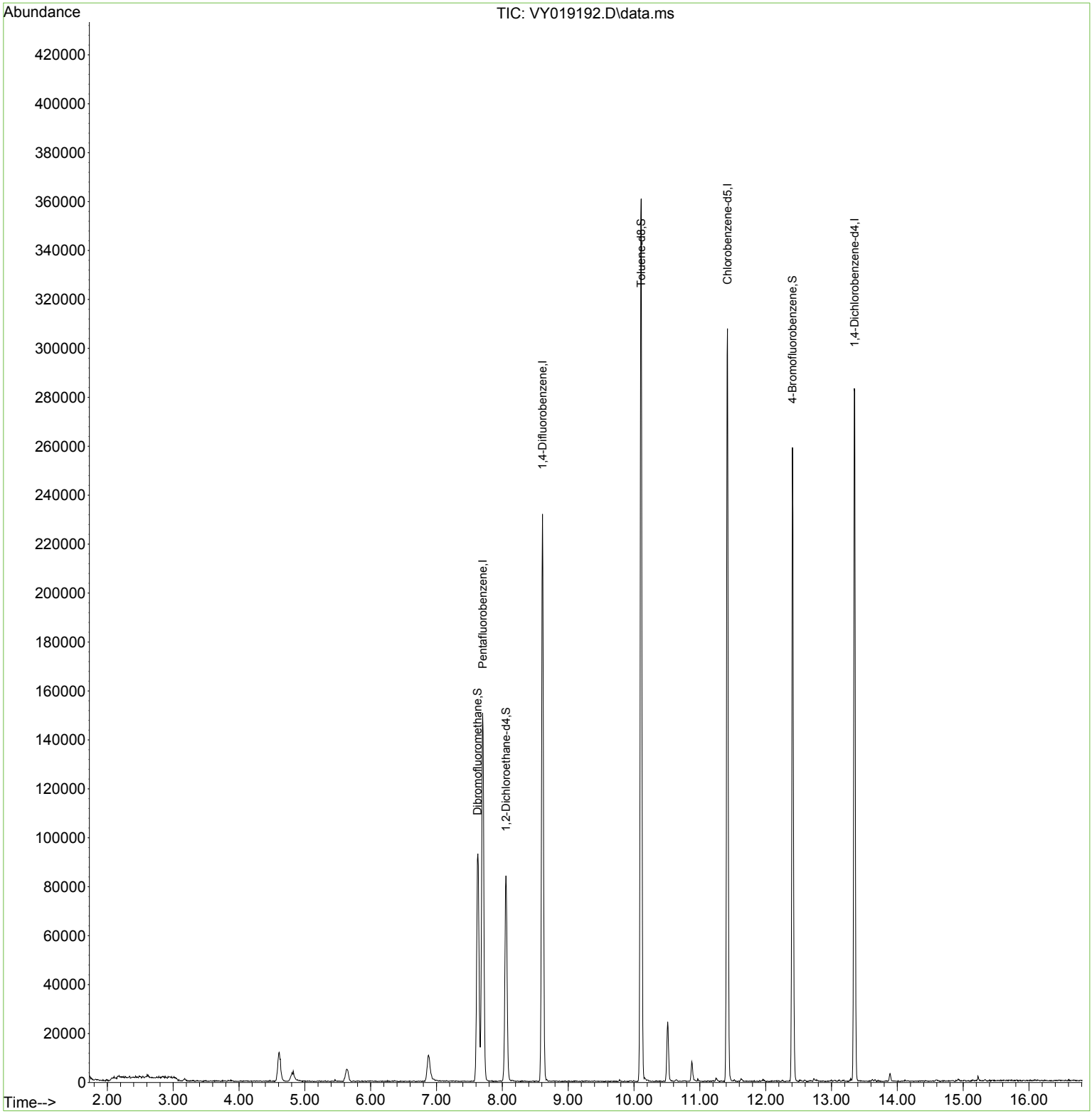
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	118099	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	198889	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	166968	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	72810	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	67459	56.983	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.960%			
35) Dibromofluoromethane	7.622	113	67145	51.632	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.260%			
50) Toluene-d8	10.109	98	231729	49.516	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.040%			
62) 4-Bromofluorobenzene	12.408	95	72570	45.488	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 90.980%			
Target Compounds						Qvalue

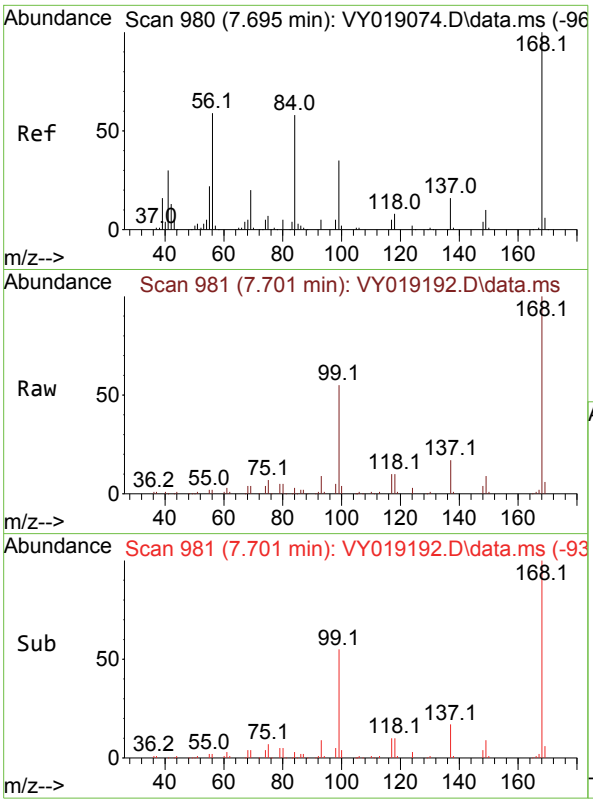
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019192.D
Acq On : 22 Aug 2024 02:11
Operator : SY/MD
Sample : VY0821SBL02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBL02

Quant Time: Aug 22 03:47:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



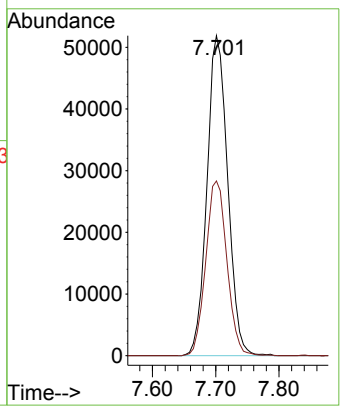


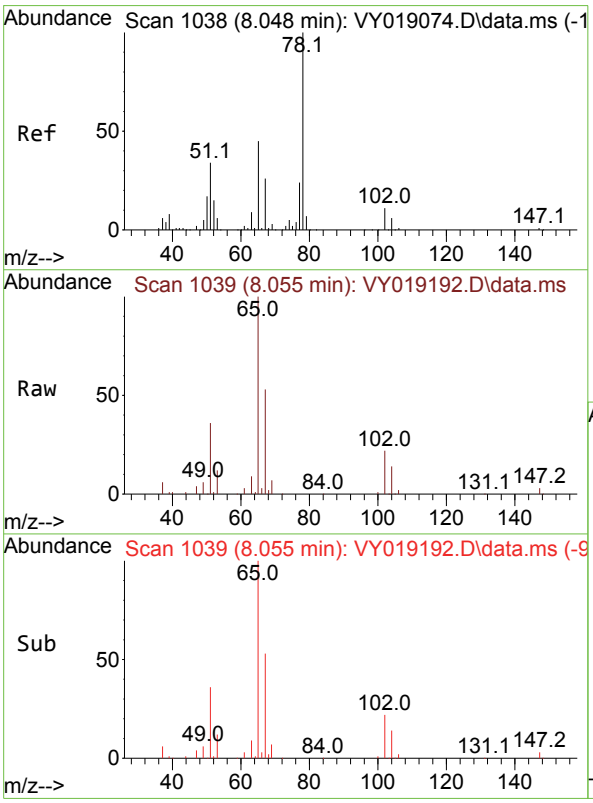
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019192.D
Acq: 22 Aug 2024 02:11

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBL02

Tgt Ion:168 Resp: 118099

Ion	Ratio	Lower	Upper
168	100		
99	54.6	39.1	58.7

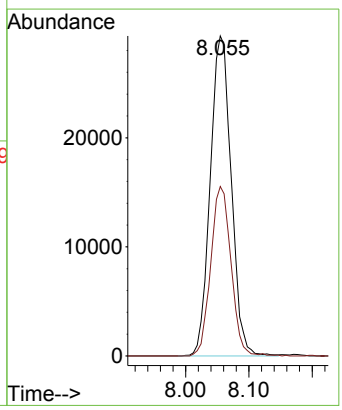


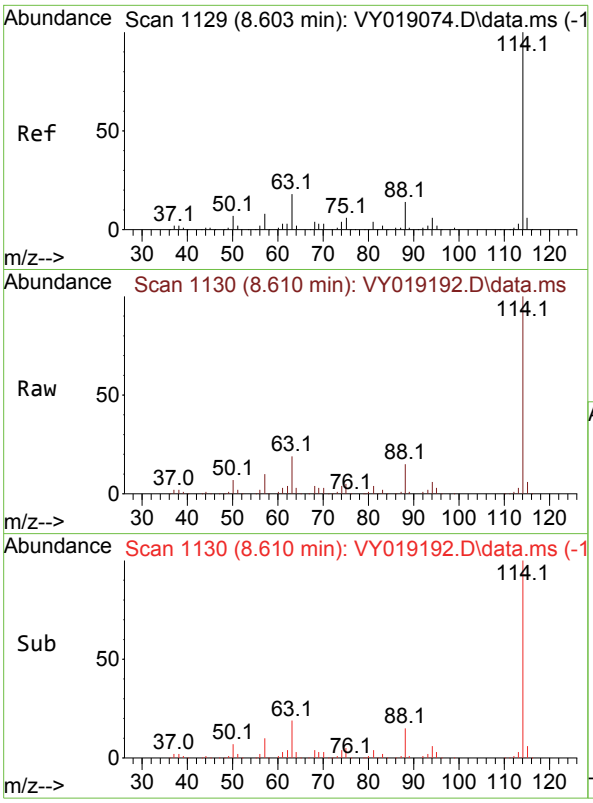


#33
1,2-Dichloroethane-d4
Concen: 56.983 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019192.D
Acq: 22 Aug 2024 02:11

Tgt Ion: 65 Resp: 67459

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	109.6



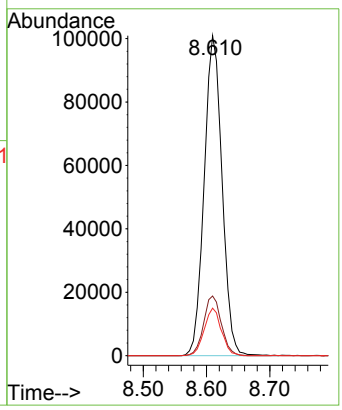


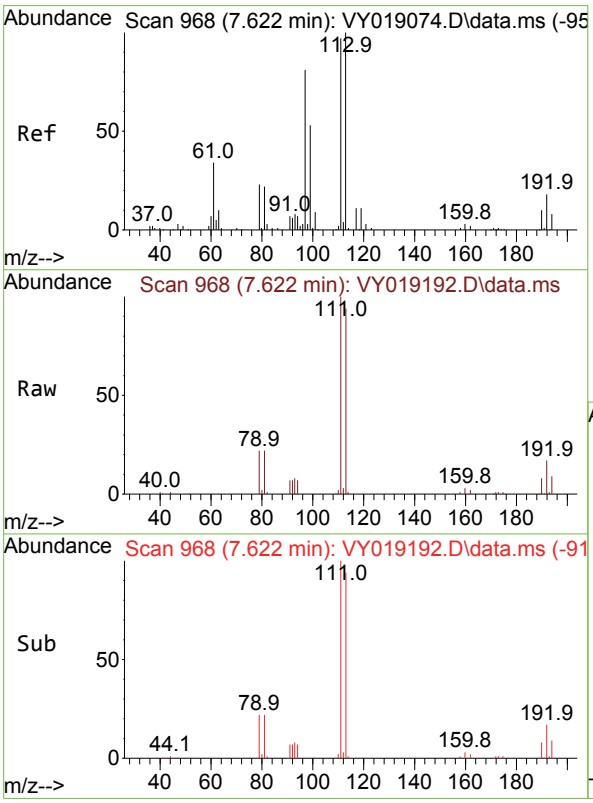
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019192.D
Acq: 22 Aug 2024 02:11

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBL02

Tgt Ion:114 Resp: 198889

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	35.0
88	14.9	0.0	27.2

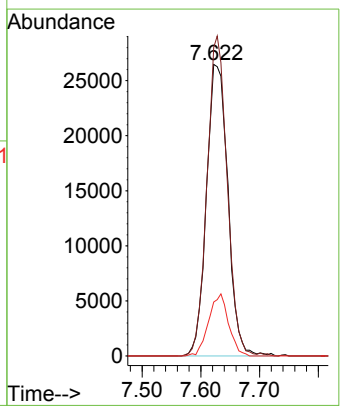


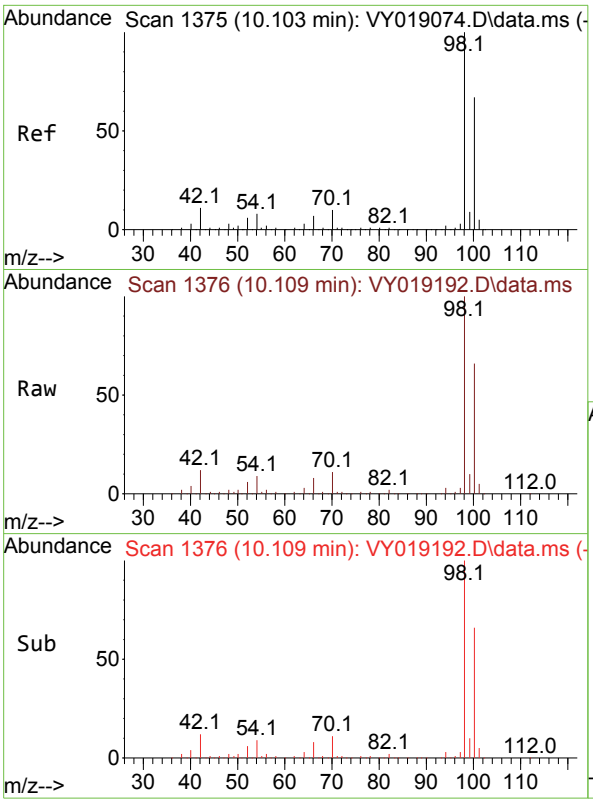


#35
Dibromofluoromethane
Concen: 51.632 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY019192.D
Acq: 22 Aug 2024 02:11

Tgt Ion:113 Resp: 67145

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.2	123.4
192	19.8	15.9	23.9



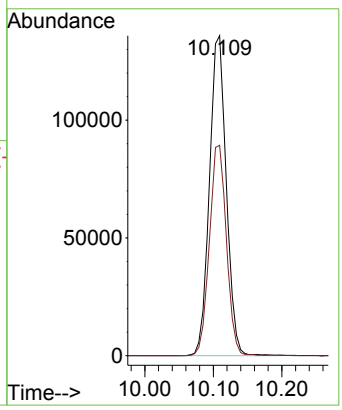


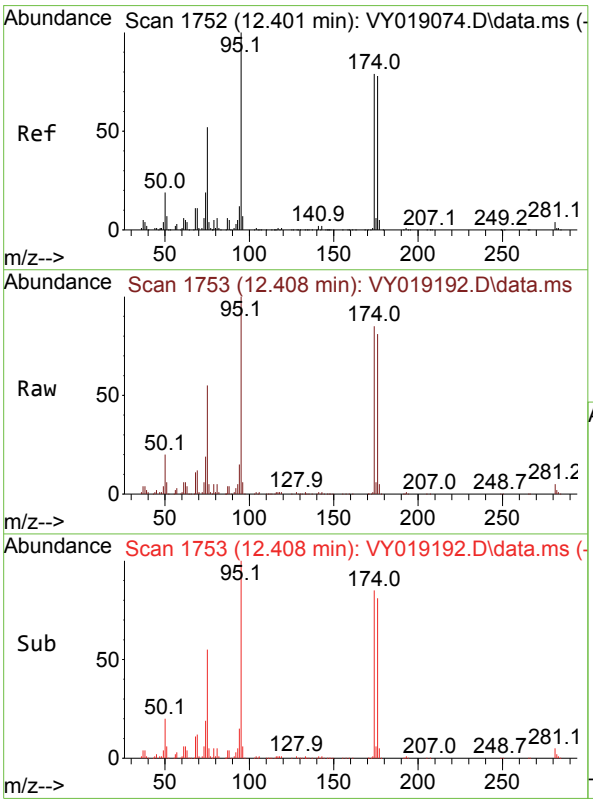
#50
Toluene-d8
Concen: 49.516 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019192.D
Acq: 22 Aug 2024 02:11

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBL02

Tgt Ion: 98 Resp: 231729

Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.0	78.0

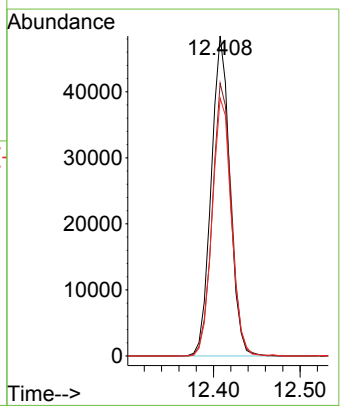


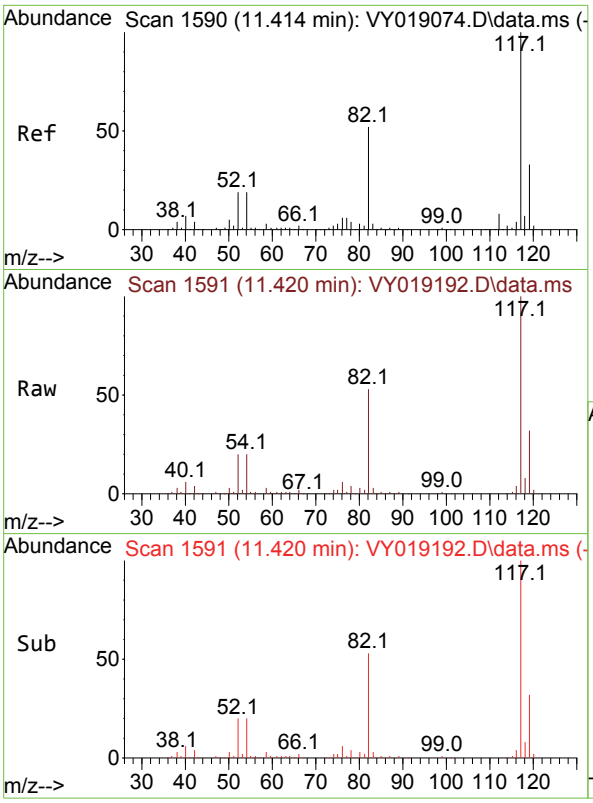


#62
4-Bromofluorobenzene
Concen: 45.488 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019192.D
Acq: 22 Aug 2024 02:11

Tgt Ion: 95 Resp: 72570

Ion	Ratio	Lower	Upper
95	100		
174	87.1	0.0	175.6
176	82.7	0.0	171.4



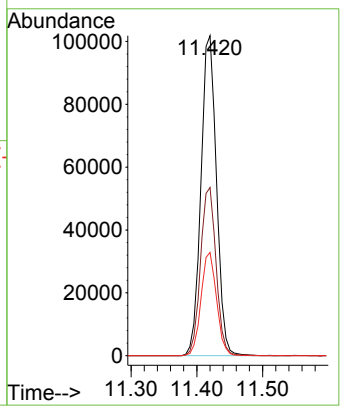


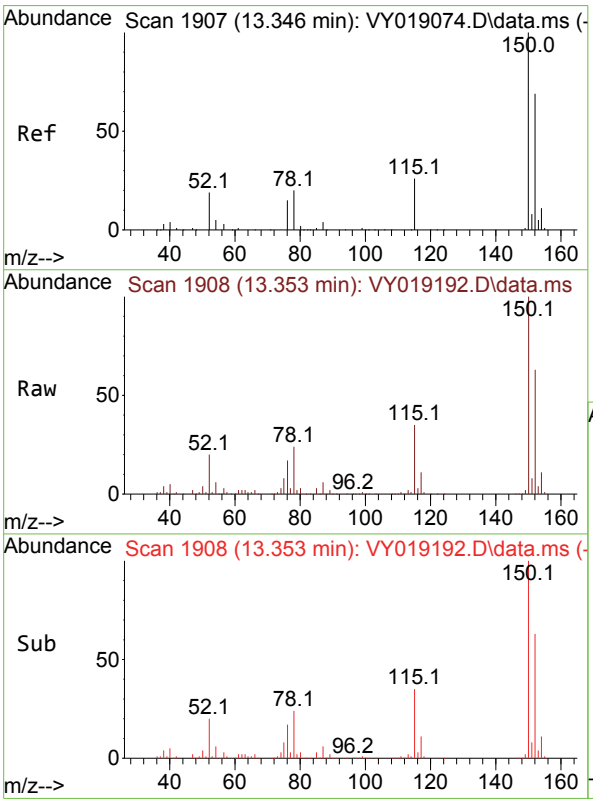
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019192.D
Acq: 22 Aug 2024 02:11

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBL02

Tgt Ion:117 Resp: 166968

Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.4	63.6
119	32.3	25.9	38.9

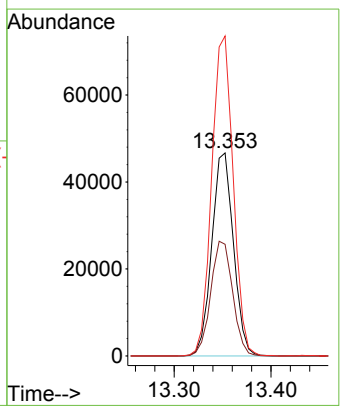




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019192.D
Acq: 22 Aug 2024 02:11

Tgt Ion:152 Resp: 72810

Ion	Ratio	Lower	Upper
152	100		
115	57.1	28.2	84.7
150	155.8	0.0	345.6



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:	VY0822SBL01	SDG No.:	P3671
Lab Sample ID:	VY0822SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019212.D	1		08/22/24 11:52	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg

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:	VY0822SBL01	SDG No.:	P3671
Lab Sample ID:	VY0822SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019212.D	1		08/22/24 11:52	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	2.10	U	2.10	15.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.0		70 (50) - 130 (163)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		70 (54) - 130 (147)	96%	SPK: 50
2037-26-5	Toluene-d8	47.0		70 (58) - 130 (134)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.5		70 (29) - 130 (146)	83%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	98800	7.701			
540-36-3	1,4-Difluorobenzene	176000	8.609			
3114-55-4	Chlorobenzene-d5	154000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	55800	13.352			

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_Y\Data\VY082224\
Data File : VY019212.D
Acq On : 22 Aug 2024 11:52
Operator : SY/MD
Sample : VY0822SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBL01

Quant Time: Aug 23 01:49:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	98791	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	175566	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	153759	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	55761	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	49487	49.972	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.940%		
35) Dibromofluoromethane	7.628	113	55227	48.109	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	96.220%		
50) Toluene-d8	10.103	98	194308	47.035	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	94.080%		
62) 4-Bromofluorobenzene	12.408	95	58505	41.543	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	83.080%		

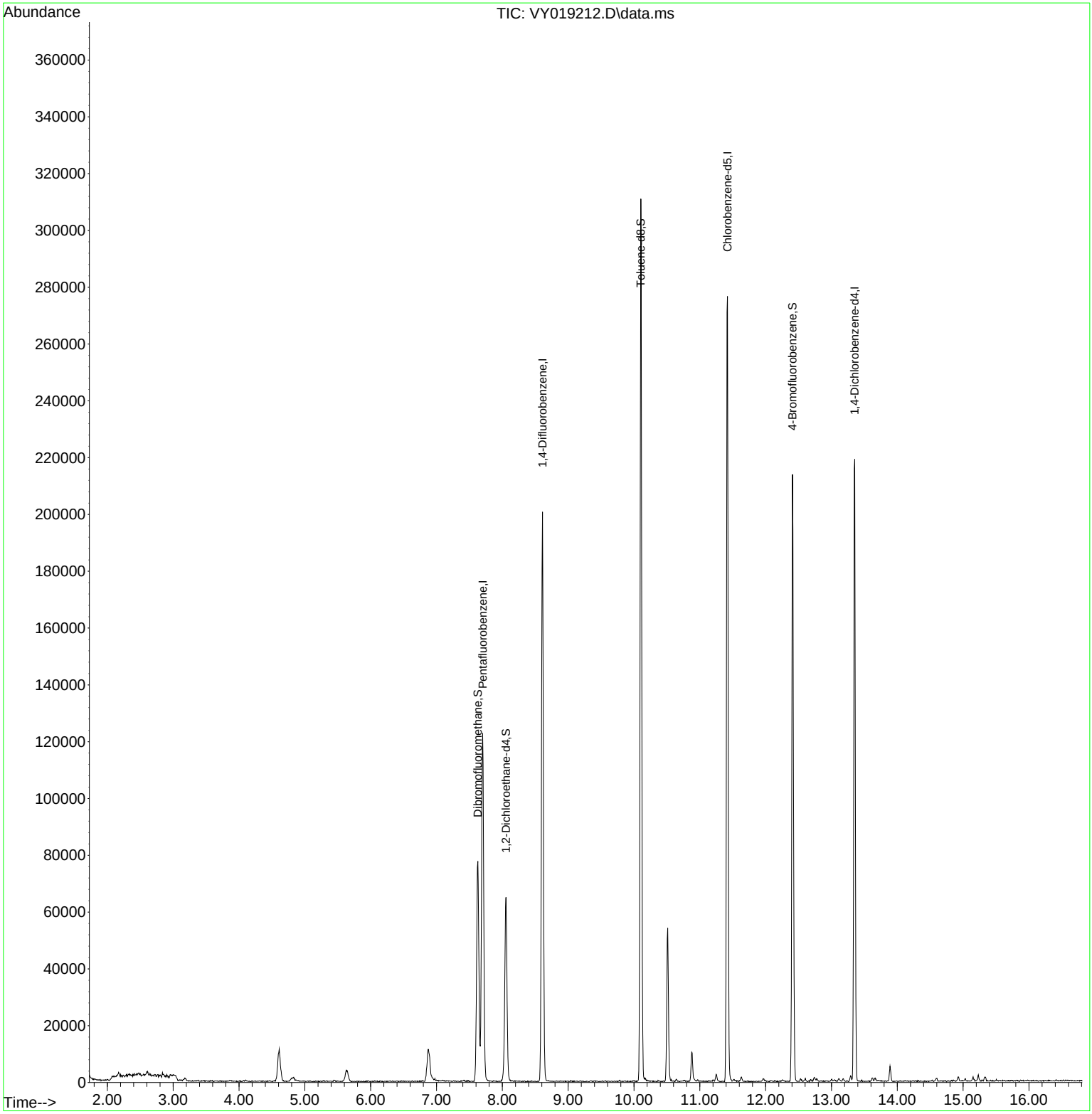
Target Compounds Qvalue

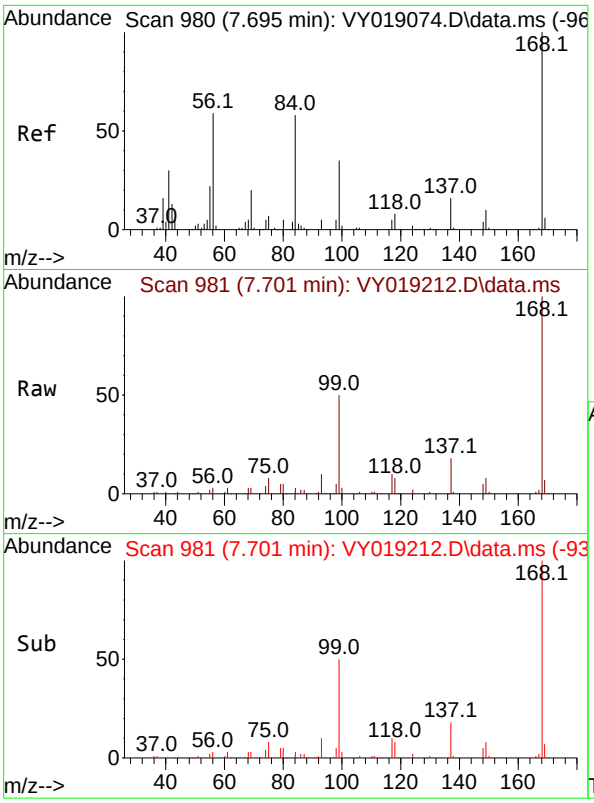
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019212.D
Acq On : 22 Aug 2024 11:52
Operator : SY/MD
Sample : VY0822SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBL01

Quant Time: Aug 23 01:49:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration



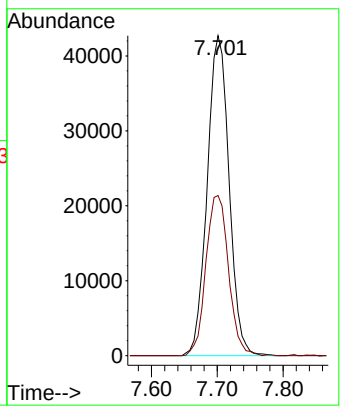


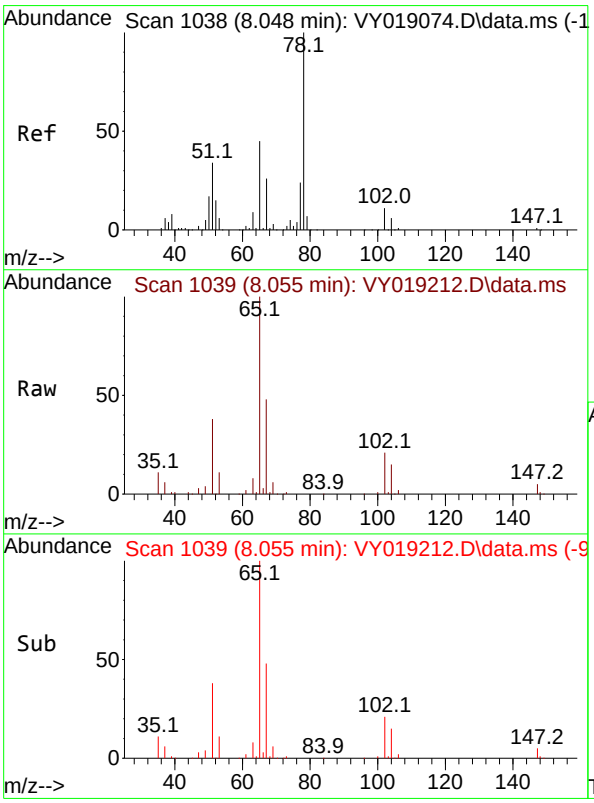
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019212.D
Acq: 22 Aug 2024 11:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBL01

Tgt Ion:168 Resp: 98791

Ion	Ratio	Lower	Upper
168	100		
99	50.1	39.1	58.7

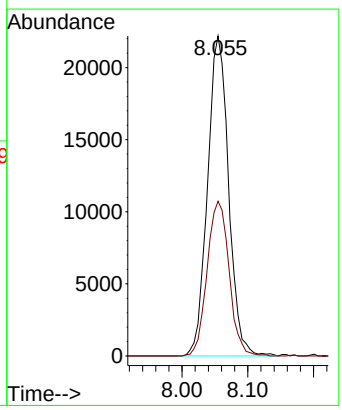


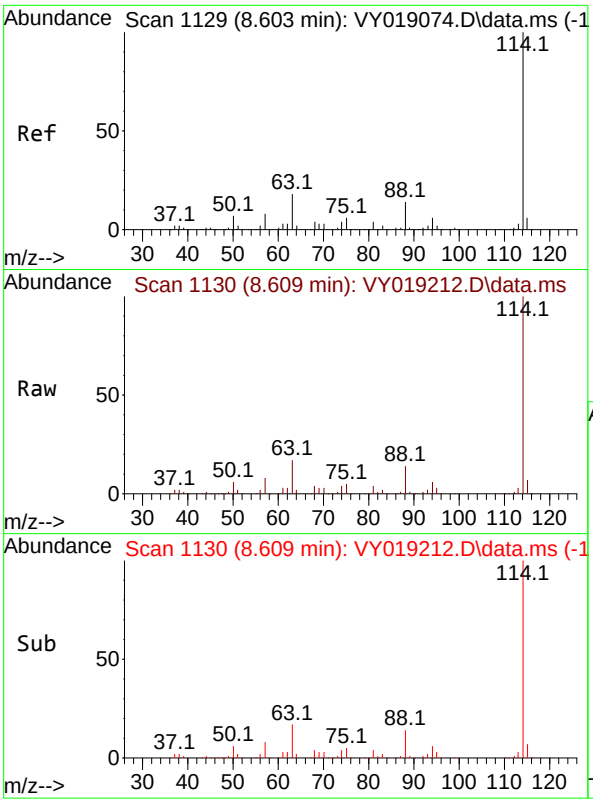


#33
1,2-Dichloroethane-d4
Concen: 49.972 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY019212.D
Acq: 22 Aug 2024 11:52

Tgt Ion: 65 Resp: 49487

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	109.6



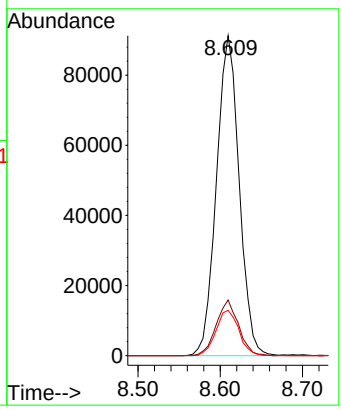


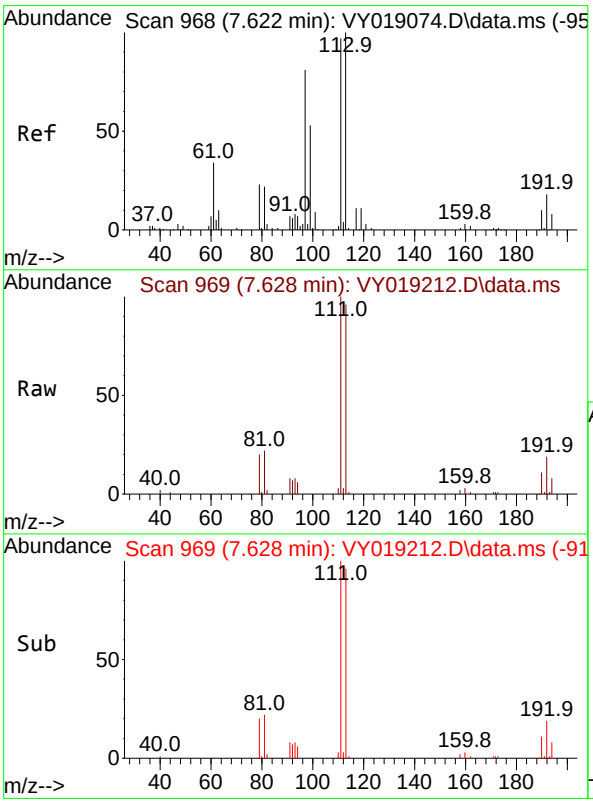
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY019212.D
Acq: 22 Aug 2024 11:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBL01

Tgt Ion:114 Resp: 175566

Ion	Ratio	Lower	Upper
114	100		
63	17.4	0.0	35.0
88	14.2	0.0	27.2

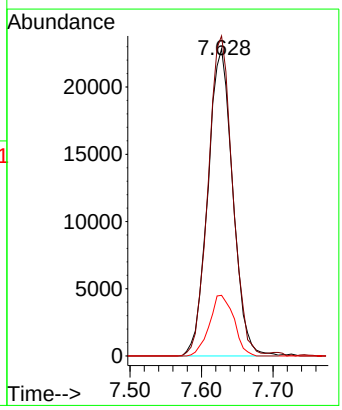


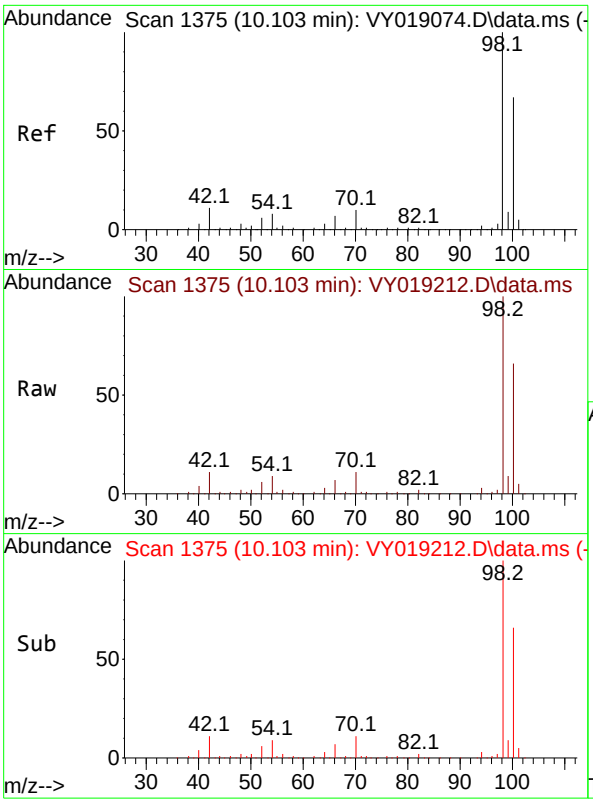


#35
Dibromofluoromethane
Concen: 48.109 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY019212.D
Acq: 22 Aug 2024 11:52

Tgt Ion:113 Resp: 55227

Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.2	123.4
192	19.4	15.9	23.9



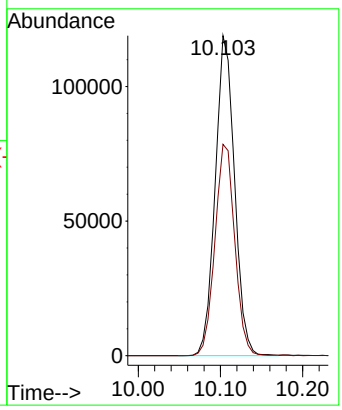


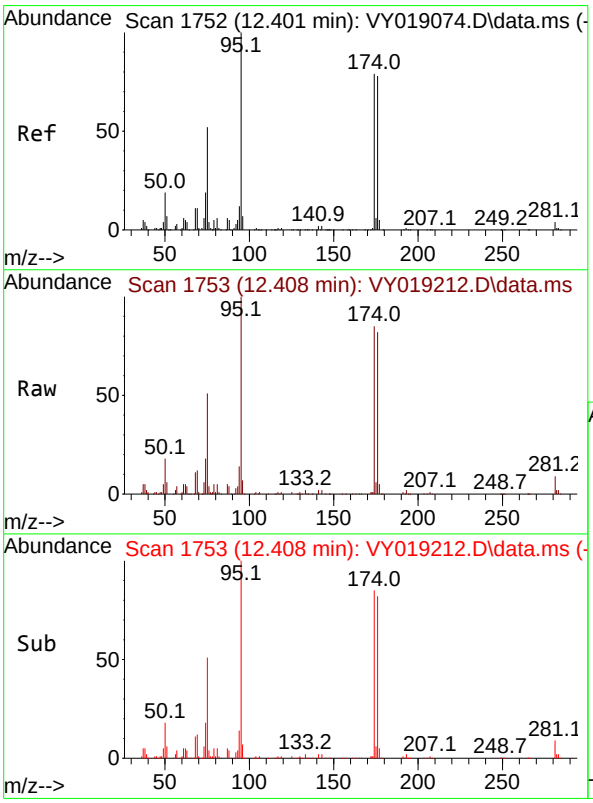
#50
Toluene-d8
Concen: 47.035 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019212.D
Acq: 22 Aug 2024 11:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBL01

Tgt Ion: 98 Resp: 194308

Ion	Ratio	Lower	Upper
98	100		
100	67.9	52.0	78.0

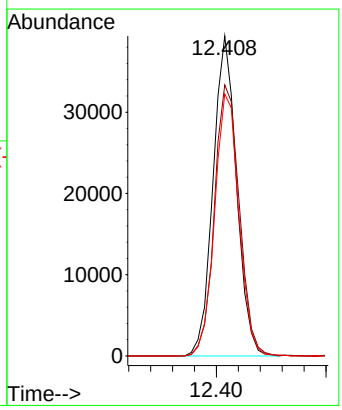


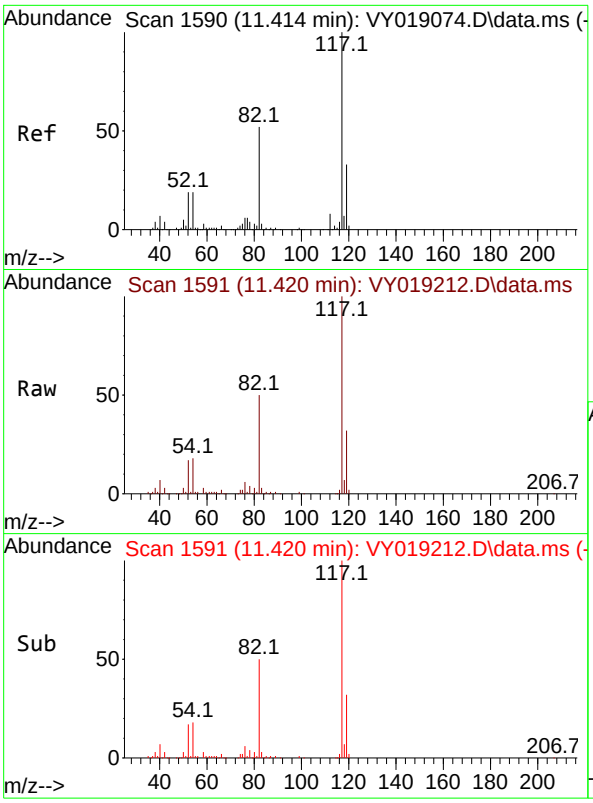


#62
4-Bromofluorobenzene
Concen: 41.543 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019212.D
Acq: 22 Aug 2024 11:52

Tgt Ion: 95 Resp: 58505

Ion	Ratio	Lower	Upper
95	100		
174	89.9	0.0	175.6
176	84.9	0.0	171.4



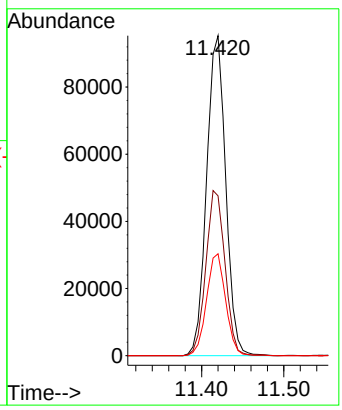


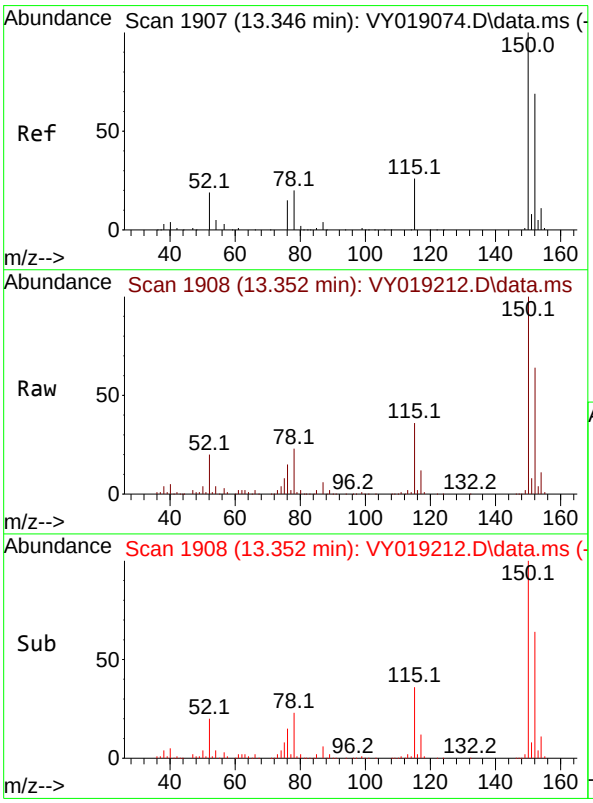
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019212.D
Acq: 22 Aug 2024 11:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBL01

Tgt Ion:117 Resp: 153759

Ion	Ratio	Lower	Upper
117	100		
82	50.0	42.4	63.6
119	31.8	25.9	38.9

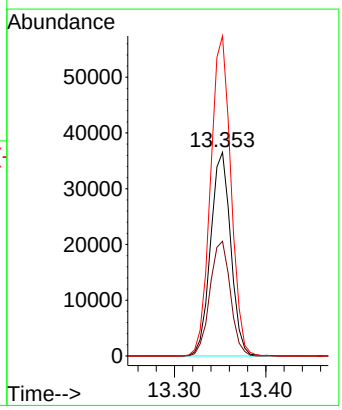




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019212.D
Acq: 22 Aug 2024 11:52

Tgt Ion:152 Resp: 55761

Ion	Ratio	Lower	Upper
152	100		
115	57.2	28.2	84.7
150	158.9	0.0	345.6



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:	VY0821SBS02	SDG No.:	P3671
Lab Sample ID:	VY0821SBS02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019193.D	1		08/22/24 02:34	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.4		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.7		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.0		1.00	5.00	ug/Kg
75-00-3	Chloroethane	17.7		1.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.1		0.78	5.00	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.1		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.0		0.67	5.00	ug/Kg
75-09-2	Methylene Chloride	21.2		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.0		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.9		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	16.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	91.8		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	18.8		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.6		0.61	5.00	ug/Kg
67-66-3	Chloroform	20.3		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.9		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	16.6		0.87	5.00	ug/Kg
71-43-2	Benzene	18.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.0		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	18.7		0.75	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.2		0.56	5.00	ug/Kg
108-88-3	Toluene	18.8		0.67	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.3		0.84	5.00	ug/Kg
124-48-1	Dibromochloromethane	17.9		0.65	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.7		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.3		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.4		0.62	5.00	ug/Kg

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:	VY0821SBS02	SDG No.:	P3671
Lab Sample ID:	VY0821SBS02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019193.D	1		08/22/24 02:34	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	37.7		1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	57.0		2.10	15.0	ug/Kg
95-47-6	o-Xylene	19.3		0.70	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.4		0.67	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	18.6		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.0		0.59	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		70 (50) - 130 (163)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.0		70 (29) - 130 (146)	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	113000	7.701			
540-36-3	1,4-Difluorobenzene	186000	8.61			
3114-55-4	Chlorobenzene-d5	159000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	75900	13.347			

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_Y\Data\VY082124\
Data File : VY019193.D
Acq On : 22 Aug 2024 02:34
Operator : SY/MD
Sample : VY0821SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Aug 22 03:47:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	113045	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	185672	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	158532	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	75884	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	56452	49.817	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.640%			
35) Dibromofluoromethane	7.628	113	61282	50.478	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.960%			
50) Toluene-d8	10.103	98	218248	49.955	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.920%			
62) 4-Bromofluorobenzene	12.408	95	71512	48.016	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 96.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	18613	22.442	ug/l	97
3) Chloromethane	2.068	50	29434	19.689	ug/l	100
4) Vinyl Chloride	2.202	62	34708	18.796	ug/l	100
5) Bromomethane	2.586	94	26578	20.029	ug/l	94
6) Chloroethane	2.733	64	22206	17.664	ug/l	97
7) Trichlorofluoromethane	3.056	101	51102	18.304	ug/l	96
8) Diethyl Ether	3.452	74	12788	21.221	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.812	101	25414	20.476	ug/l	98
10) Methyl Iodide	3.995	142	24418	20.071	ug/l	94
11) Tert butyl alcohol	4.830	59	16110	150.312	ug/l #	96
12) 1,1-Dichloroethene	3.781	96	23826	21.129	ug/l	91
13) Acrolein	3.647	56	8581	88.061	ug/l	100
14) Allyl chloride	4.379	41	33994	22.674	ug/l	90
15) Acrylonitrile	5.049	53	26890	109.055	ug/l	96
16) Acetone	3.854	43	21581	102.692	ug/l #	84
17) Carbon Disulfide	4.098	76	63796	20.058	ug/l	98
18) Methyl Acetate	4.379	43	14650	22.714	ug/l	98
19) Methyl tert-butyl Ether	5.104	73	60068	21.972	ug/l	96
20) Methylene Chloride	4.610	84	35344	21.187	ug/l	85
21) trans-1,2-Dichloroethene	5.104	96	26486	21.024	ug/l	95
22) Diisopropyl ether	6.013	45	76589	22.315	ug/l	93
23) Vinyl Acetate	5.952	43	248756	91.547	ug/l	96
24) 1,1-Dichloroethane	5.903	63	46062	21.946	ug/l	96
25) 2-Butanone	6.884	43	31084	91.844	ug/l #	88
26) 2,2-Dichloropropane	6.878	77	31689	18.644	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	30597	20.638	ug/l	99
28) Bromochloromethane	7.244	49	18068	20.521	ug/l	98
29) Tetrahydrofuran	7.256	42	21477	98.717	ug/l	90
30) Chloroform	7.409	83	47426	20.278	ug/l	99
31) Cyclohexane	7.695	56	31351	16.471	ug/l #	96
32) 1,1,1-Trichloroethane	7.610	97	40918	19.908	ug/l	97
36) 1,1-Dichloropropene	7.829	75	31140	18.679	ug/l	99
37) Ethyl Acetate	6.970	43	16394	22.196	ug/l	97
38) Carbon Tetrachloride	7.811	117	36281	18.779	ug/l	95
39) Methylcyclohexane	9.103	83	35521	16.604	ug/l	94
40) Benzene	8.073	78	96409	18.856	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019193.D
Acq On : 22 Aug 2024 02:34
Operator : SY/MD
Sample : VY0821SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Aug 22 03:47:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.213	41	6993m	17.347 ug/l	
42) 1,2-Dichloroethane	8.152	62	26291	19.042 ug/l	99
43) Isopropyl Acetate	8.195	43	25887	17.330 ug/l #	81
44) Trichloroethene	8.860	130	26678	18.700 ug/l	91
45) 1,2-Dichloropropane	9.140	63	21547	18.915 ug/l	98
46) Dibromomethane	9.231	93	14033	18.993 ug/l	99
47) Bromodichloromethane	9.420	83	34842	19.221 ug/l	100
48) Methyl methacrylate	9.213	41	11582	17.398 ug/l #	89
49) 1,4-Dioxane	9.219	88	3106	347.031 ug/l #	90
51) 4-Methyl-2-Pentanone	10.000	43	68990	87.019 ug/l	94
52) Toluene	10.170	92	63199	18.831 ug/l	99
53) t-1,3-Dichloropropene	10.396	75	27226	18.106 ug/l	96
54) cis-1,3-Dichloropropene	9.853	75	32400	17.916 ug/l #	88
55) 1,1,2-Trichloroethane	10.573	97	18320	19.261 ug/l	94
56) Ethyl methacrylate	10.439	69	21955	17.635 ug/l #	84
57) 1,3-Dichloropropane	10.719	76	28510	18.387 ug/l	98
58) 2-Chloroethyl Vinyl ether	9.707	63	53273	90.200 ug/l	97
59) 2-Hexanone	10.762	43	45510	83.554 ug/l	91
60) Dibromochloromethane	10.914	129	23220	17.924 ug/l	95
61) 1,2-Dibromoethane	11.018	107	16289	17.718 ug/l	96
64) Tetrachloroethene	10.646	164	28652	20.677 ug/l	93
65) Chlorobenzene	11.444	112	70365	19.276 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.518	131	23585	18.372 ug/l	99
67) Ethyl Benzene	11.524	91	116739	18.425 ug/l	98
68) m/p-Xylenes	11.633	106	94900	37.748 ug/l	100
69) o-Xylene	11.957	106	44959	19.312 ug/l	97
70) Styrene	11.975	104	75023	18.897 ug/l	99
71) Bromoform	12.133	173	13447	18.324 ug/l #	96
73) Isopropylbenzene	12.255	105	113063	19.440 ug/l	99
74) N-amyl acetate	12.072	43	22830	18.001 ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.511	83	19384	18.720 ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	15291m	20.433 ug/l	
77) Bromobenzene	12.536	156	27769	19.880 ug/l	95
78) n-propylbenzene	12.597	91	134407	19.331 ug/l	97
79) 2-Chlorotoluene	12.682	91	76676	19.670 ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	93041	19.637 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	5276	17.411 ug/l #	87
82) 4-Chlorotoluene	12.780	91	78394	19.330 ug/l	97
83) tert-Butylbenzene	12.999	119	83480	19.079 ug/l	98
84) 1,2,4-Trimethylbenzene	13.048	105	90658	19.198 ug/l	99
85) sec-Butylbenzene	13.176	105	122654	19.236 ug/l	99
86) p-Isopropyltoluene	13.292	119	98194	18.748 ug/l	95
87) 1,3-Dichlorobenzene	13.292	146	51979	18.870 ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	50990	18.621 ug/l	97
89) n-Butylbenzene	13.621	91	86058	18.022 ug/l	98
90) Hexachloroethane	13.883	117	20568	19.924 ug/l	100
91) 1,2-Dichlorobenzene	13.664	146	46085	19.022 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	2878	18.894 ug/l	93
93) 1,2,4-Trichlorobenzene	14.919	180	22918	16.774 ug/l	96
94) Hexachlorobutadiene	15.023	225	13875	19.497 ug/l	95
95) Naphthalene	15.151	128	40041	16.421 ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	20196	17.526 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019193.D
Acq On : 22 Aug 2024 02:34
Operator : SY/MD
Sample : VY0821SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Aug 22 03:47:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

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

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

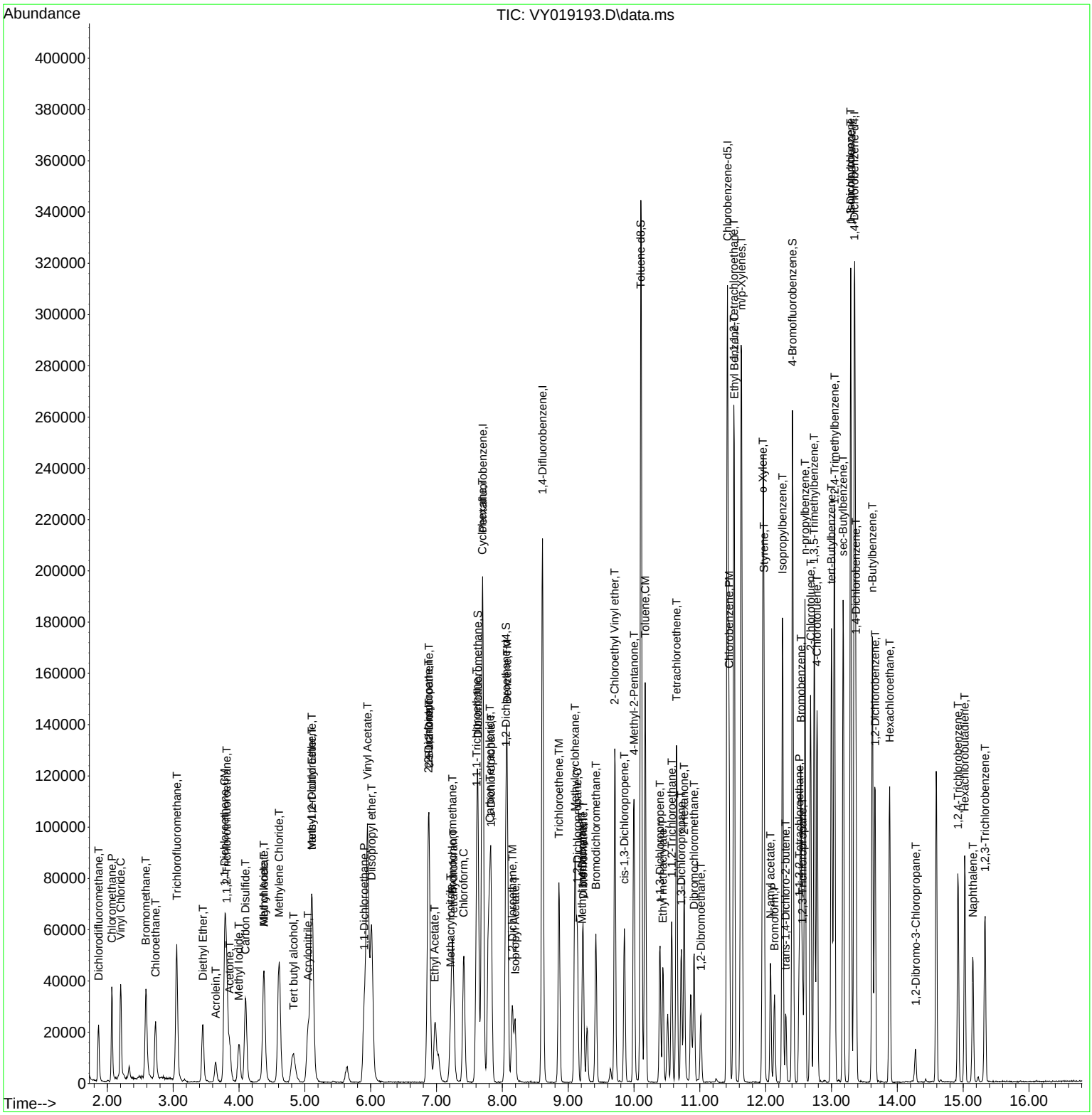
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019193.D
Acq On : 22 Aug 2024 02:34
Operator : SY/MD
Sample : VY0821SBS02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 35 Sample Multiplier: 1

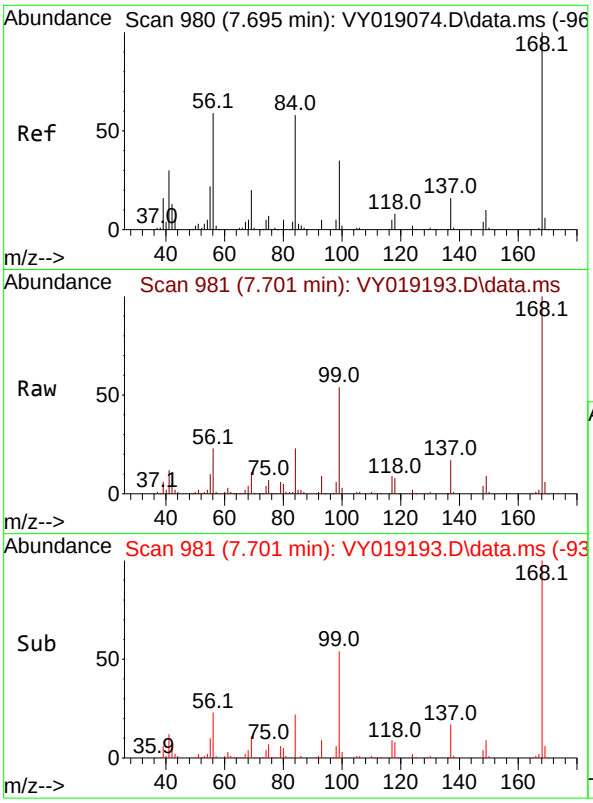
Quant Time: Aug 22 03:47:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

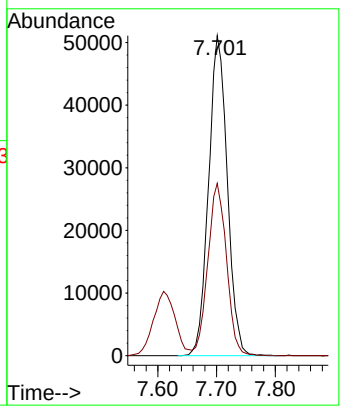




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:168 Resp: 11304

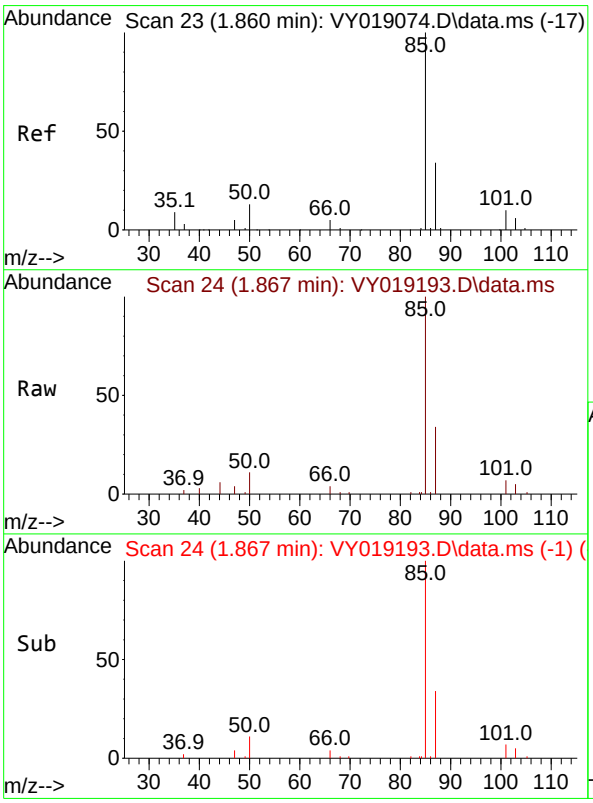
Ion	Ratio	Lower	Upper
168	100		
99	53.8	39.1	58.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

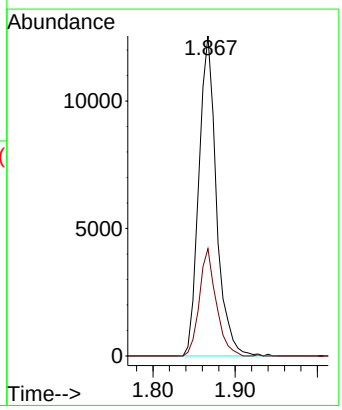
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

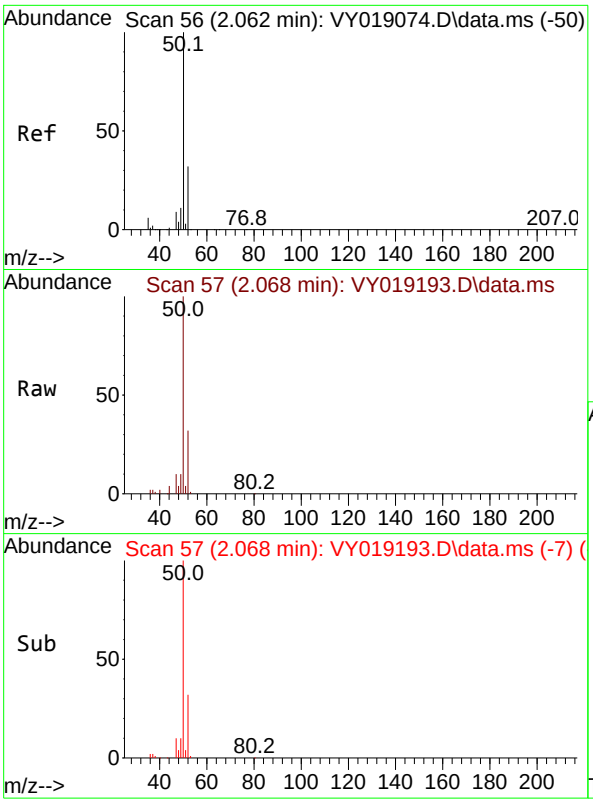


#2
Dichlorodifluoromethane
Concen: 22.442 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 85 Resp: 18613

Ion	Ratio	Lower	Upper
85	100		
87	33.6	16.0	48.0

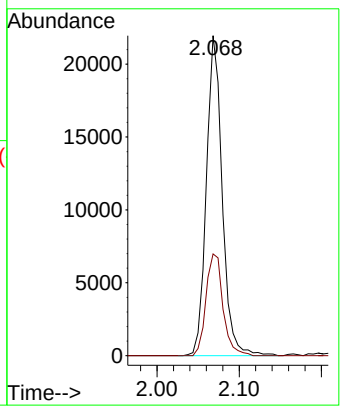




#3
Chloromethane
Concen: 19.689 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 50 Resp: 2943

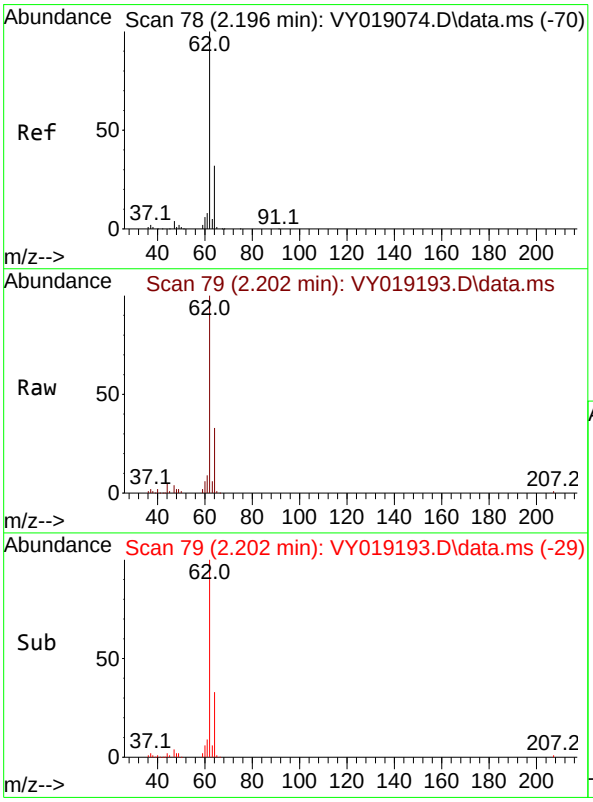
Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

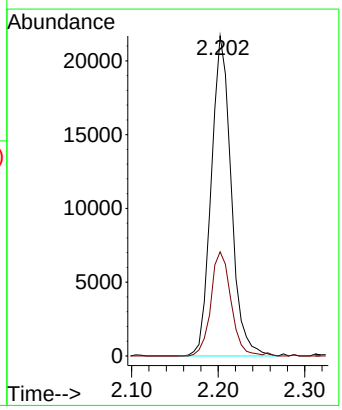
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

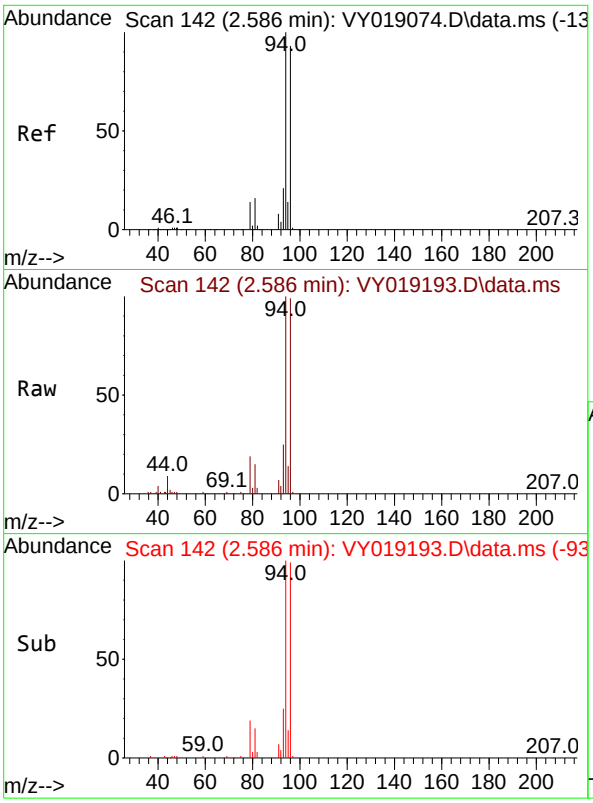


#4
Vinyl Chloride
Concen: 18.796 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 62 Resp: 34708

Ion	Ratio	Lower	Upper
62	100		
64	32.6	26.1	39.1





#5
Bromomethane
Concen: 20.029 ug/l
RT: 2.586 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

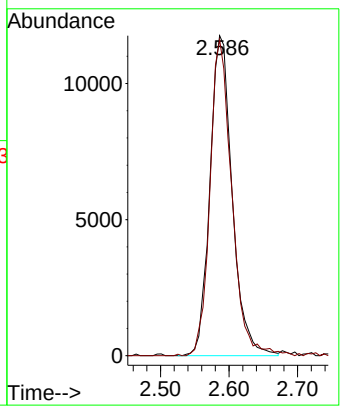
Tgt Ion: 94 Resp: 2657

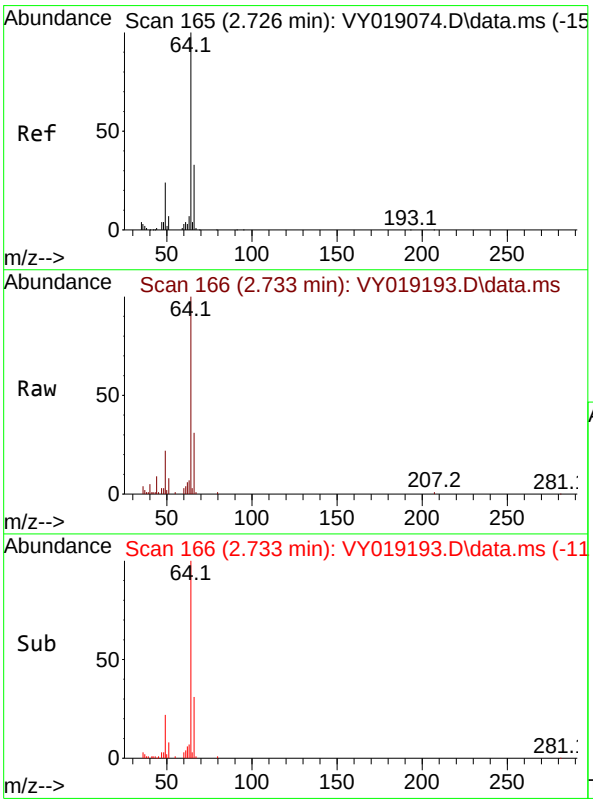
Ion	Ratio	Lower	Upper
94	100		
96	98.2	74.1	111.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

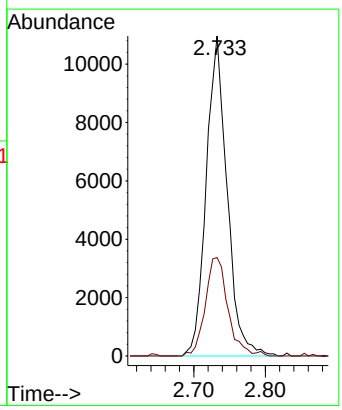


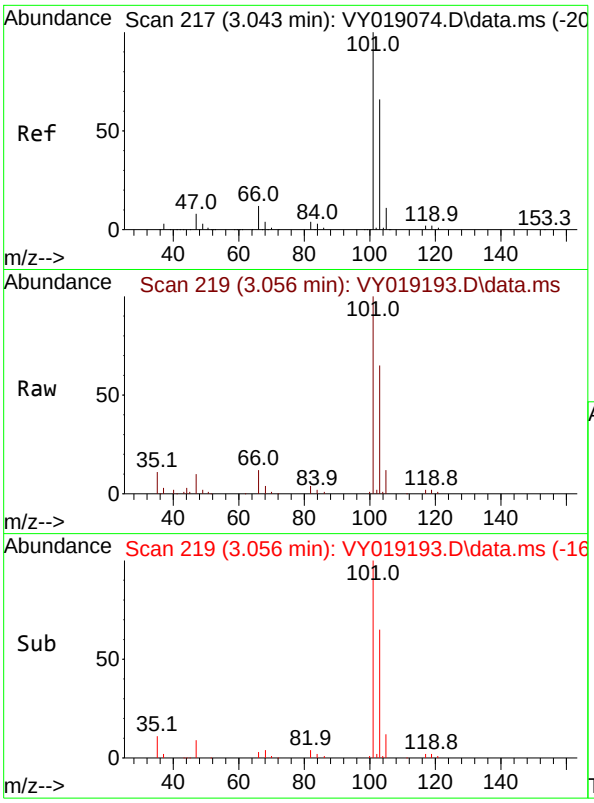


#6
Chloroethane
Concen: 17.664 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.007 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 64 Resp: 22206

Ion	Ratio	Lower	Upper
64	100		
66	30.7	26.1	39.1





#7
Trichlorofluoromethane
Concen: 18.304 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

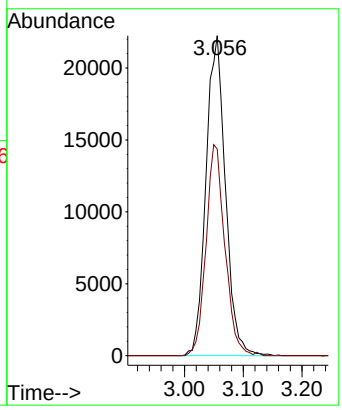
Tgt Ion:101 Resp: 5110

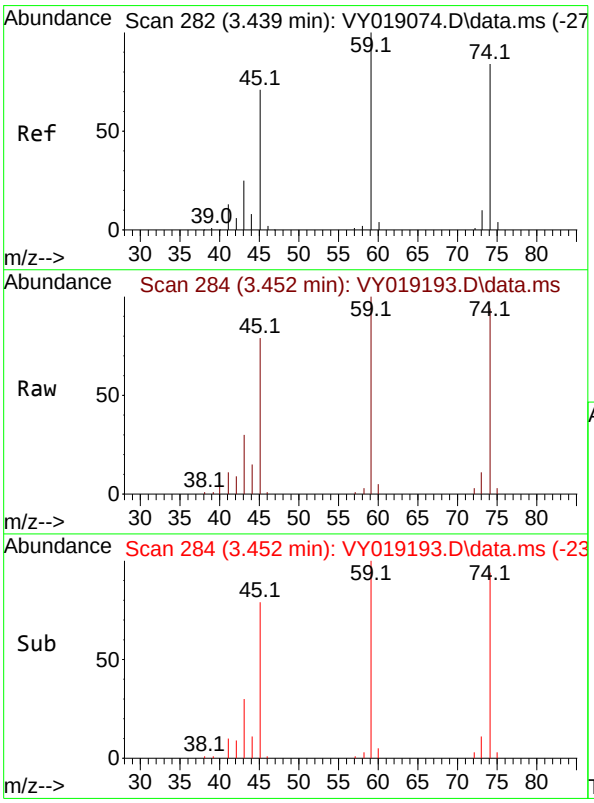
Ion	Ratio	Lower	Upper
101	100		
103	64.6	49.3	73.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

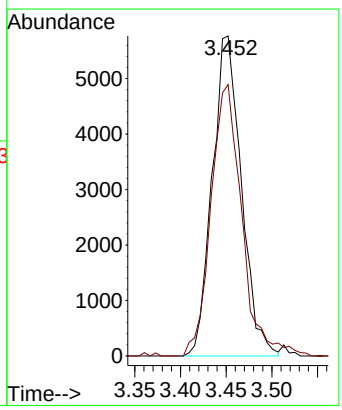


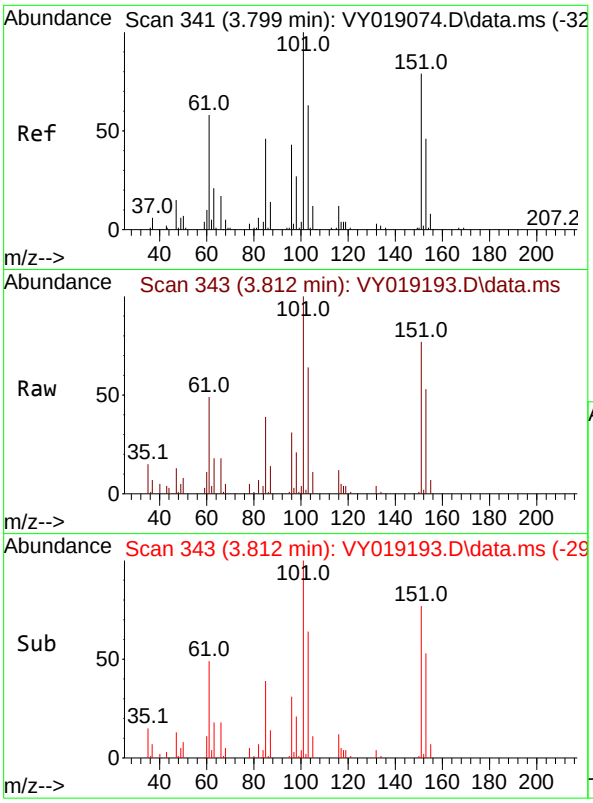


#8
Diethyl Ether
Concen: 21.221 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 74 Resp: 12788

Ion	Ratio	Lower	Upper
74	100		
45	89.9	41.3	124.1

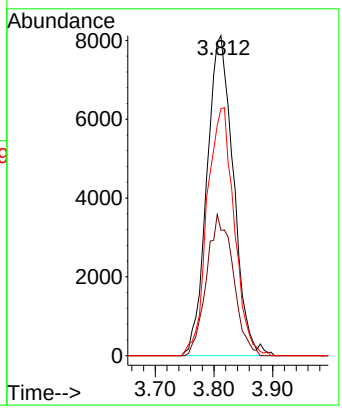




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.476 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:101 Resp: 2541

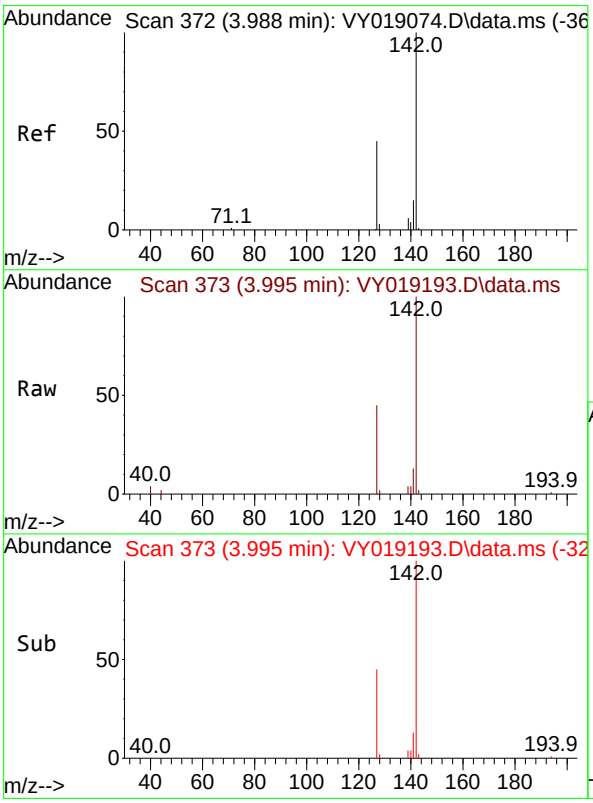
Ion	Ratio	Lower	Upper
101	100		
85	44.4	34.5	51.7
151	79.1	61.7	92.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

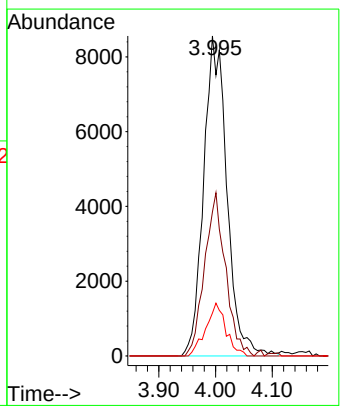
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

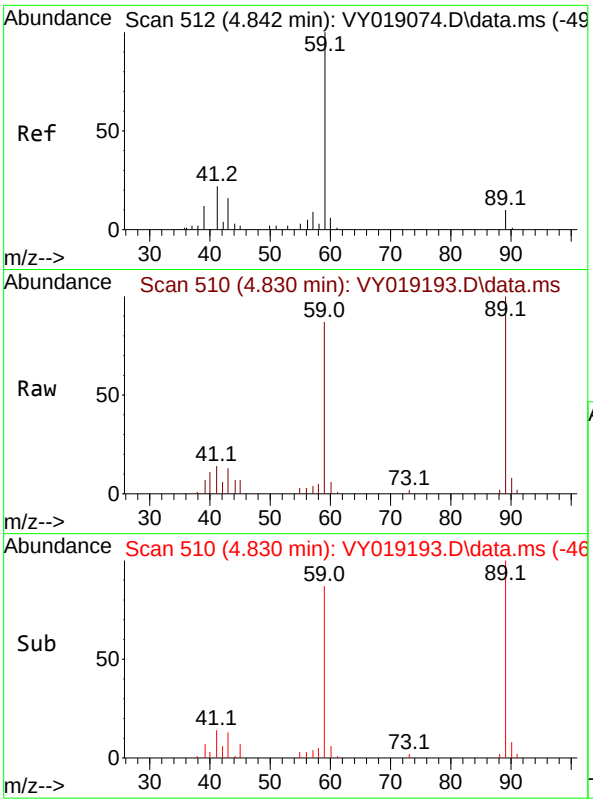


#10
Methyl Iodide
Concen: 20.071 ug/l
RT: 3.995 min Scan# 373
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:142 Resp: 24418

Ion	Ratio	Lower	Upper
142	100		
127	45.9	32.8	49.2
141	14.3	11.4	17.2





#11
Tert butyl alcohol
Concen: 150.312 ug/l
RT: 4.830 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

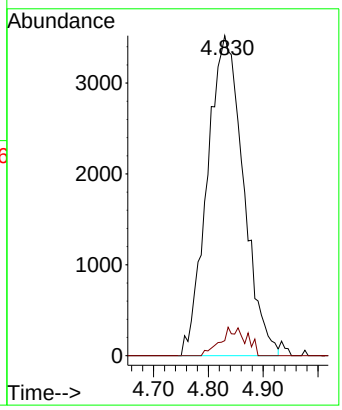
Tgt Ion: 59 Resp: 1611

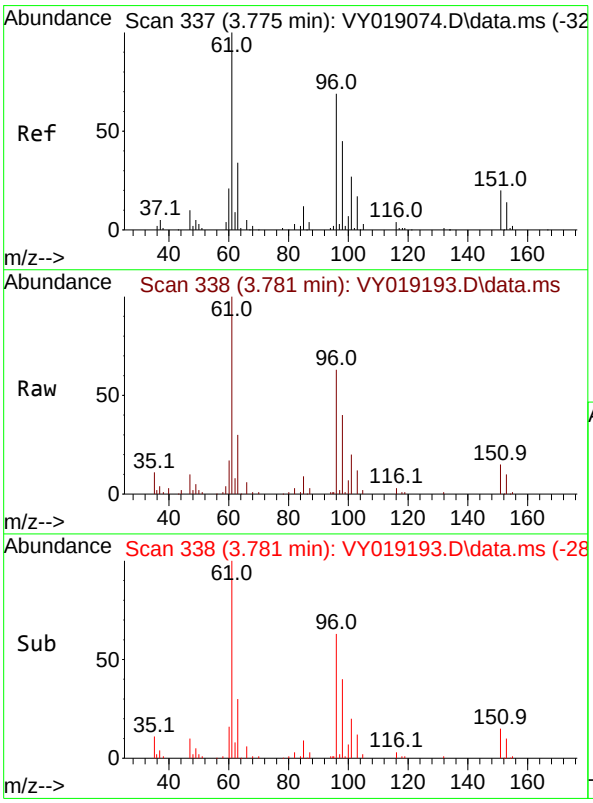
Ion	Ratio	Lower	Upper
59	100		
57	5.0	3.0	4.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

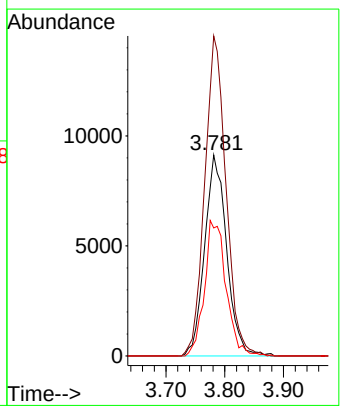


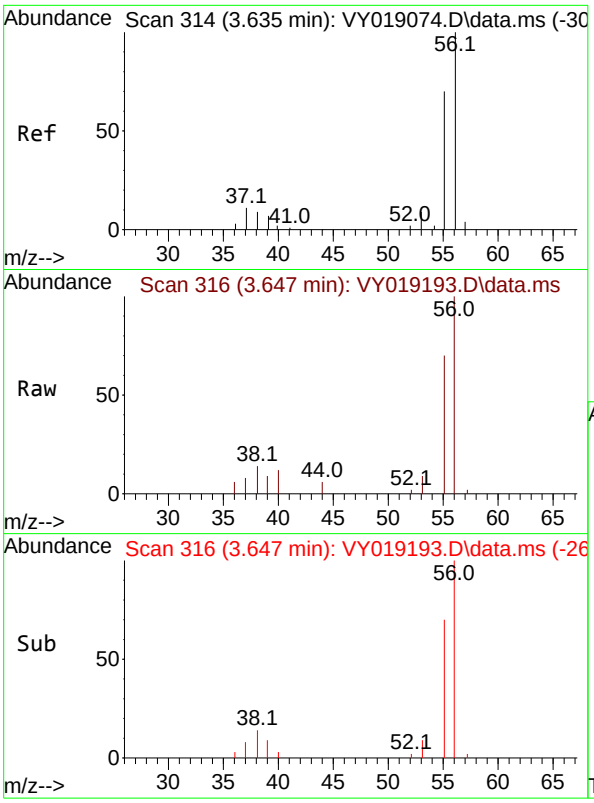


#12
1,1-Dichloroethene
Concen: 21.129 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 96 Resp: 23826

Ion	Ratio	Lower	Upper
96	100		
61	159.3	114.6	171.8
98	63.7	50.8	76.2

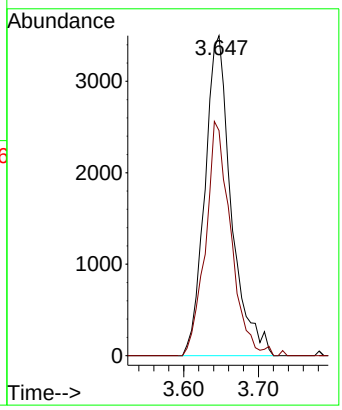




#13
Acrolein
Concen: 88.061 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 56 Resp: 858

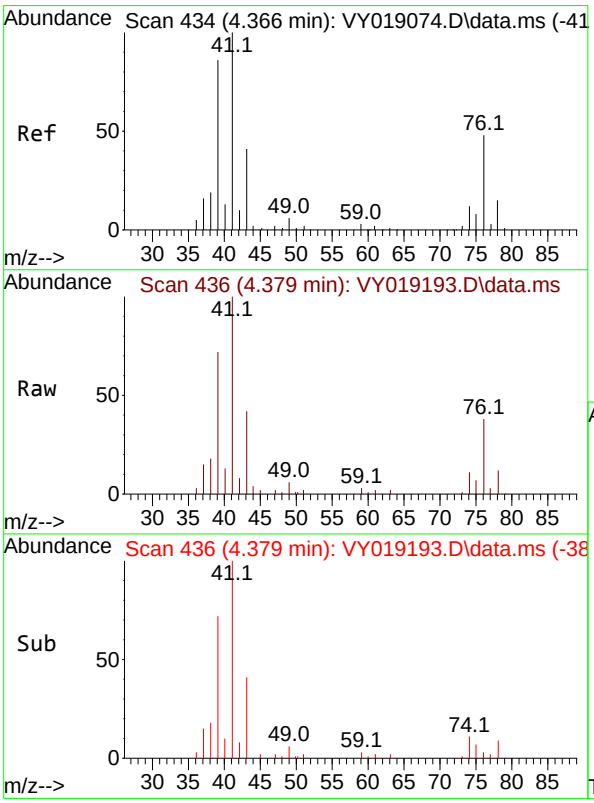
Ion	Ratio	Lower	Upper
56	100		
55	69.9	55.7	83.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

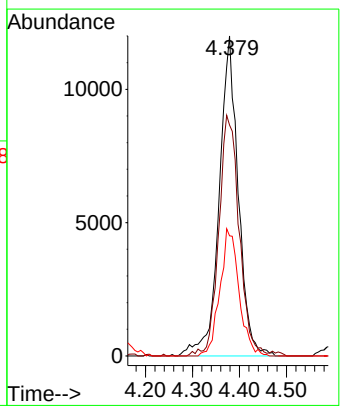
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

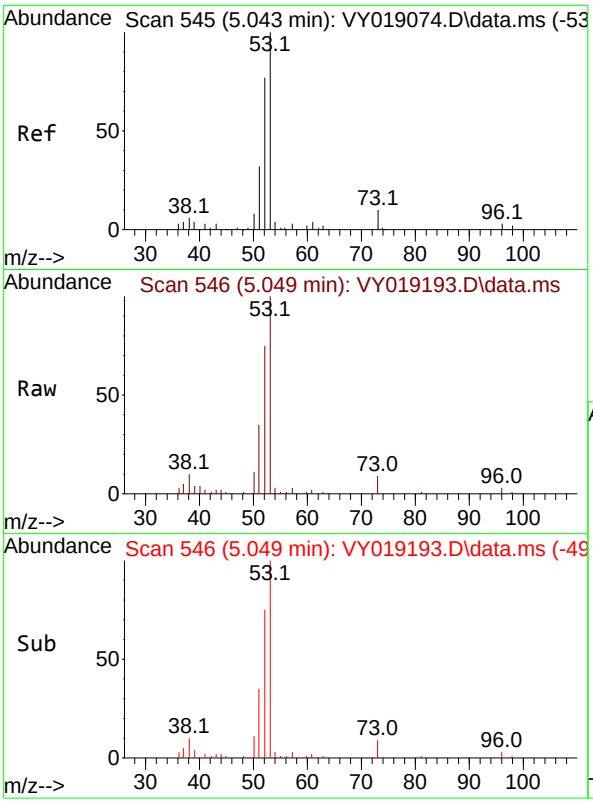


#14
Allyl chloride
Concen: 22.674 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 41 Resp: 33994

Ion	Ratio	Lower	Upper
41	100		
39	80.0	58.3	87.5
76	39.8	39.0	58.6





#15
Acrylonitrile
Concen: 109.055 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

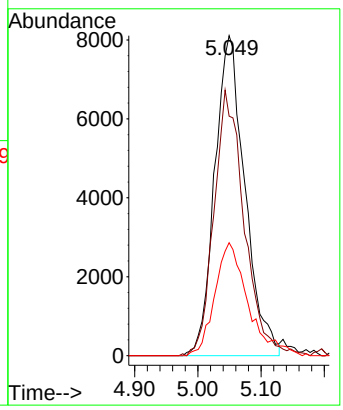
Tgt Ion: 53 Resp: 2689

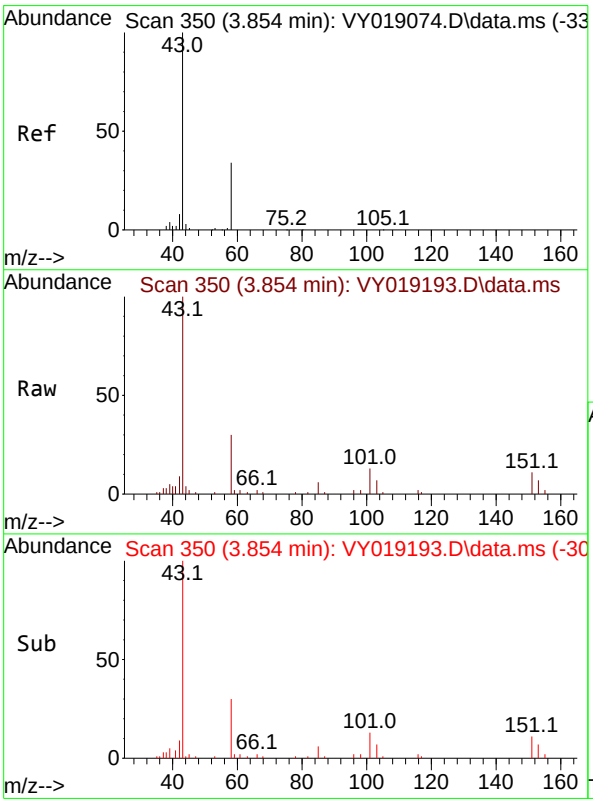
Ion	Ratio	Lower	Upper
53	100		
52	83.2	64.7	97.1
51	38.9	28.4	42.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

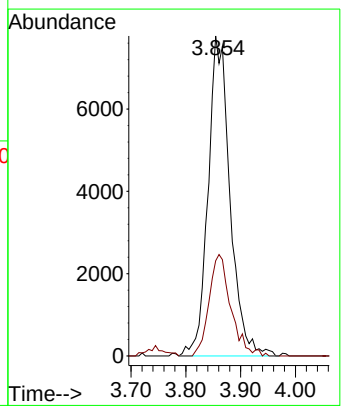


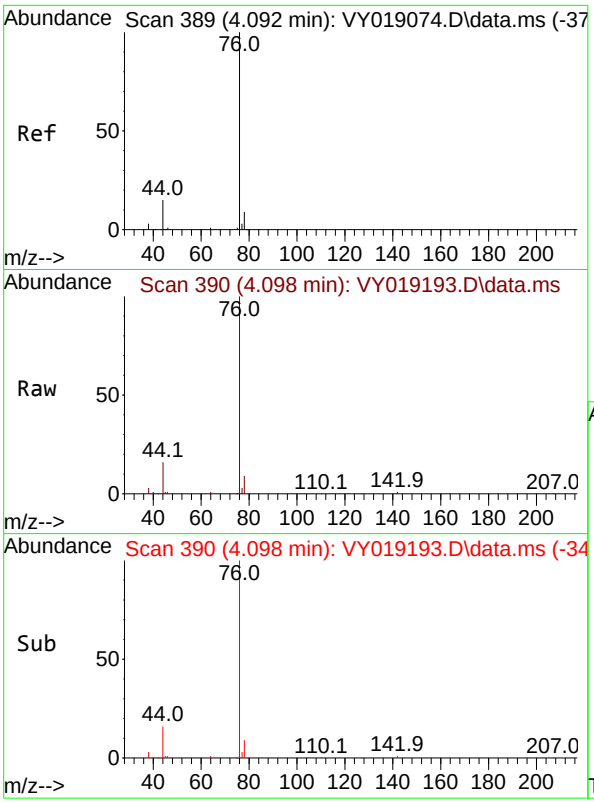


#16
Acetone
Concen: 102.692 ug/l
RT: 3.854 min Scan# 350
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 43 Resp: 21581

Ion	Ratio	Lower	Upper
43	100		
58	29.7	31.7	47.5#

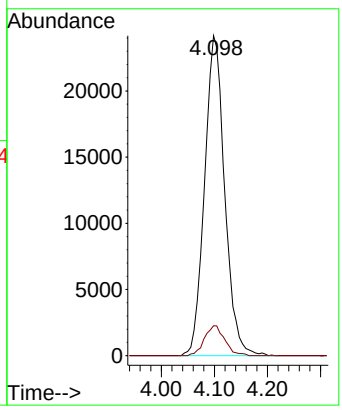




#17
Carbon Disulfide
Concen: 20.058 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 76 Resp: 6379

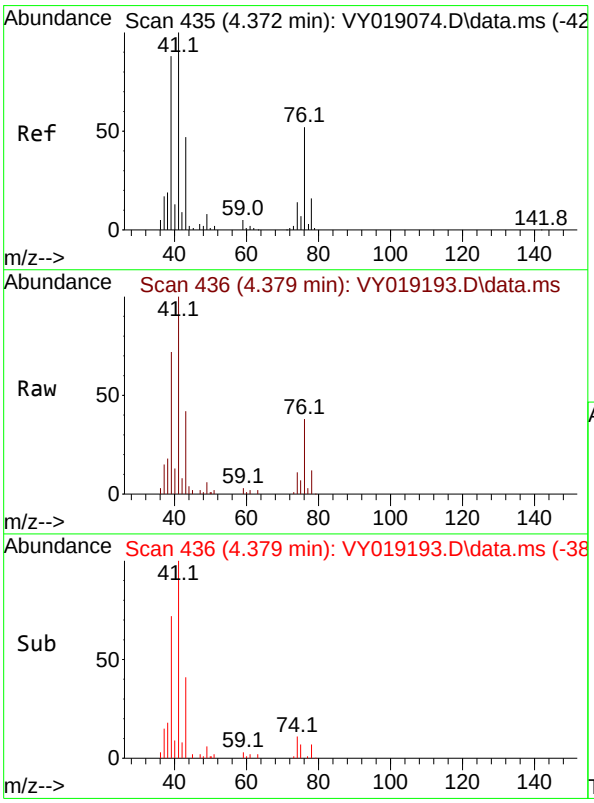
Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

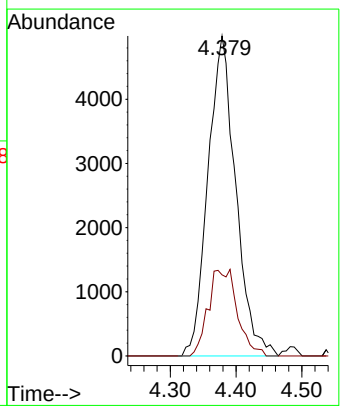
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

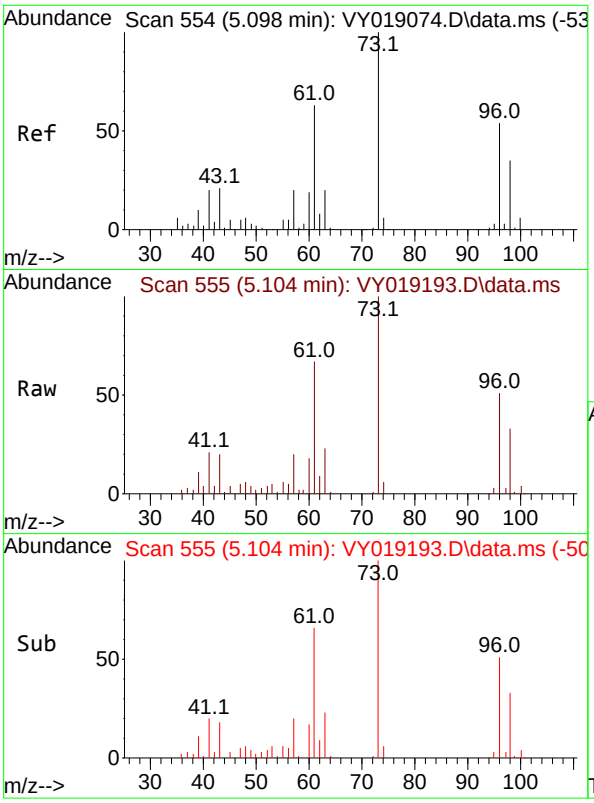


#18
Methyl Acetate
Concen: 22.714 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 43 Resp: 14650

Ion	Ratio	Lower	Upper
43	100		
74	28.2	23.3	34.9

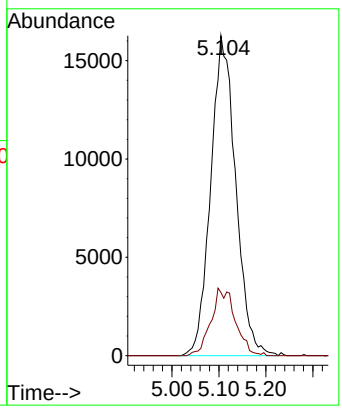




#19
Methyl tert-butyl Ether
Concen: 21.972 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 73 Resp: 6006

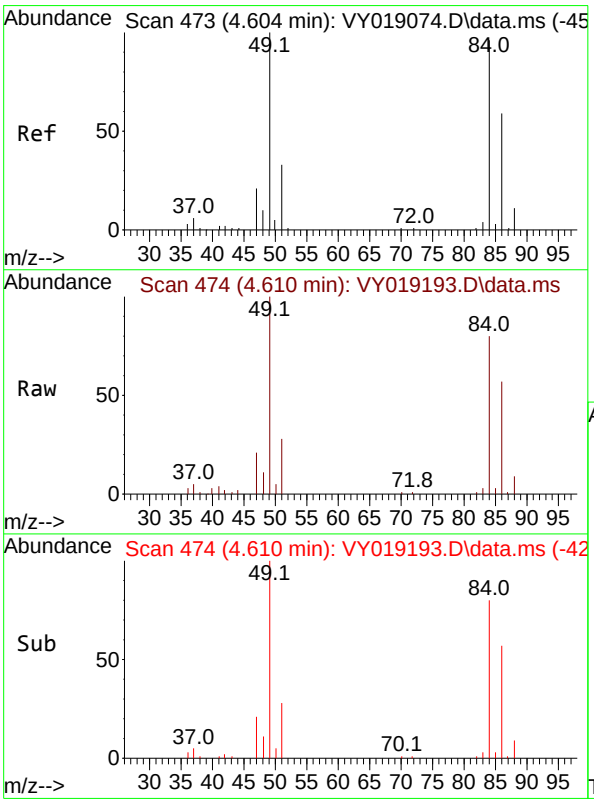
Ion	Ratio	Lower	Upper
73	100		
57	19.7	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

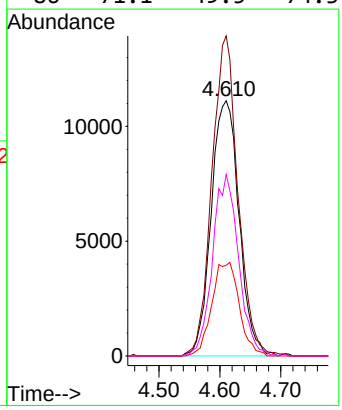
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

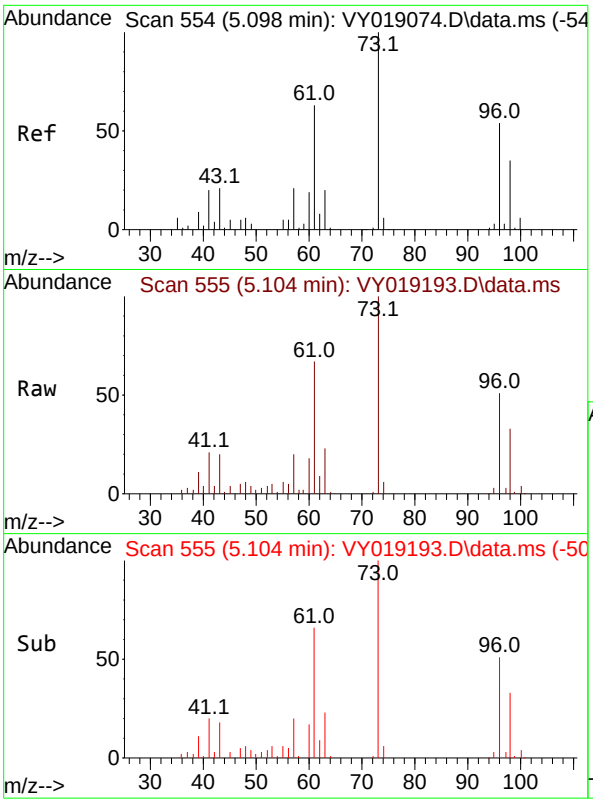


#20
Methylene Chloride
Concen: 21.187 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 84 Resp: 35344

Ion	Ratio	Lower	Upper
84	100		
49	125.4	84.4	126.6
51	35.5	26.0	39.0
86	71.1	49.5	74.3

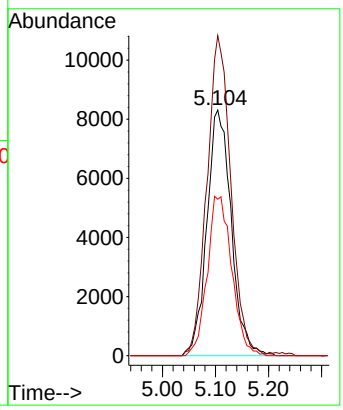




#21
trans-1,2-Dichloroethene
Concen: 21.024 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 96 Resp: 2648

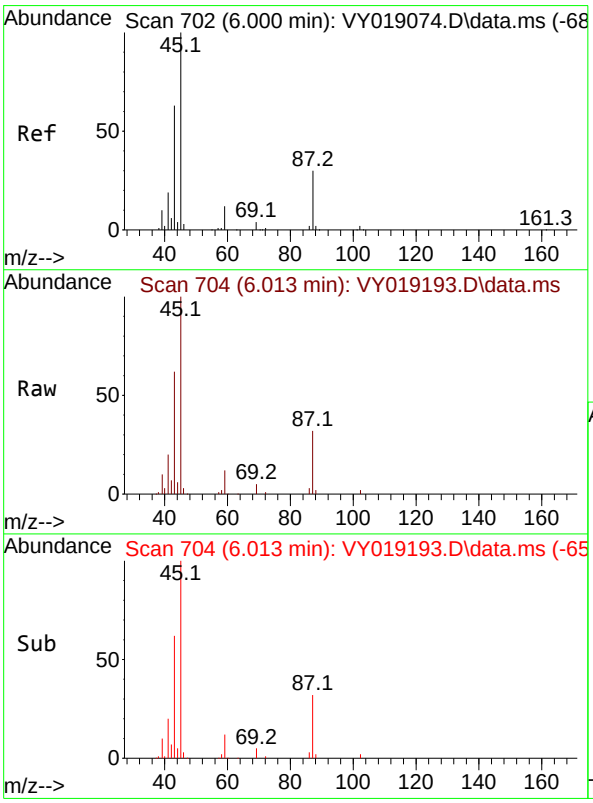
Ion	Ratio	Lower	Upper
96	100		
61	130.3	97.5	146.3
98	63.7	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

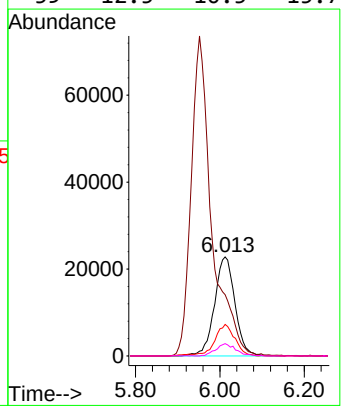
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

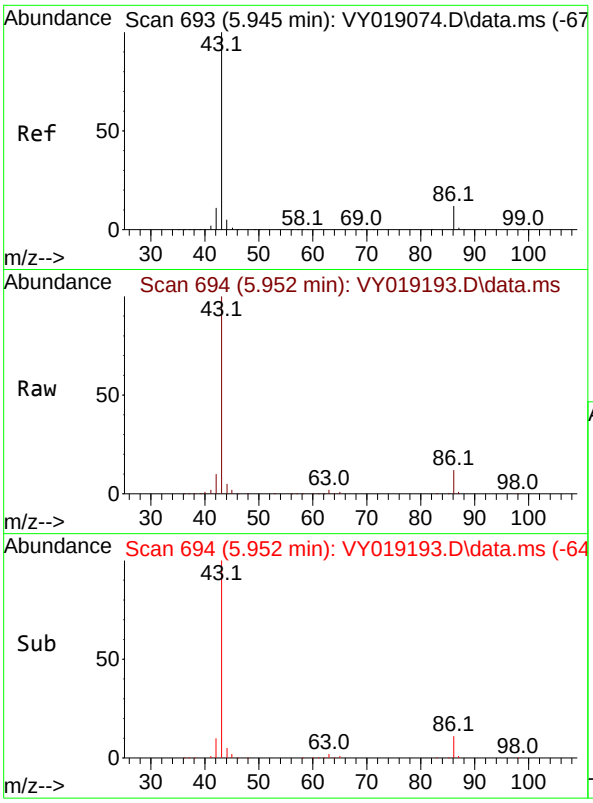


#22
Diisopropyl ether
Concen: 22.315 ug/l
RT: 6.013 min Scan# 704
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 45 Resp: 76589

Ion	Ratio	Lower	Upper
45	100		
43	61.2	42.2	63.2
87	31.8	25.0	37.6
59	12.5	10.5	15.7





#23
Vinyl Acetate
Concen: 91.547 ug/l
RT: 5.952 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

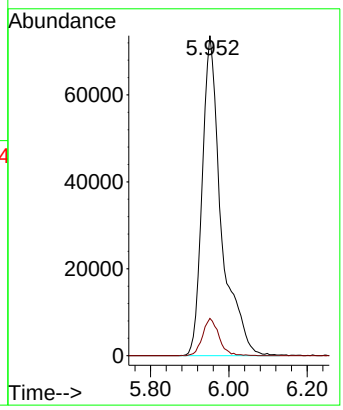
Tgt Ion: 43 Resp: 24875

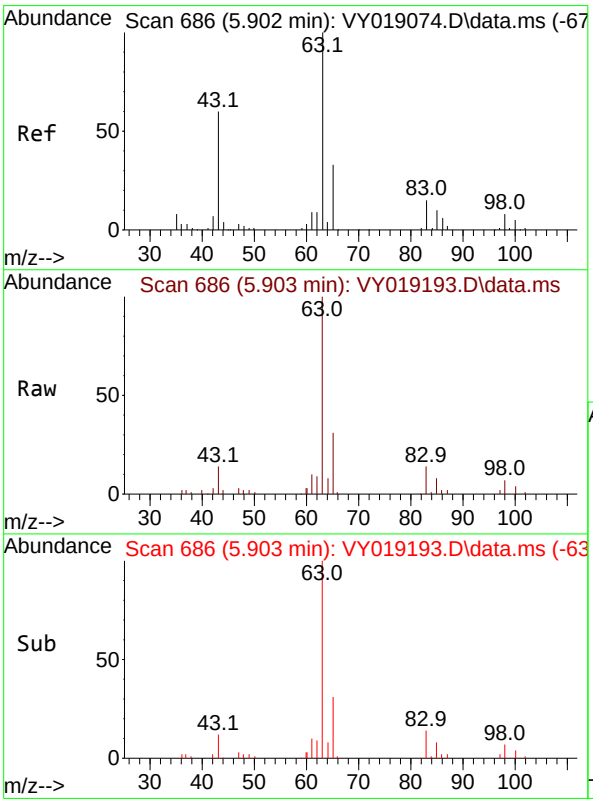
Ion	Ratio	Lower	Upper
43	100		
86	11.6	10.6	16.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

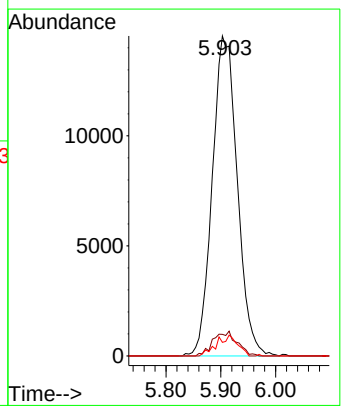


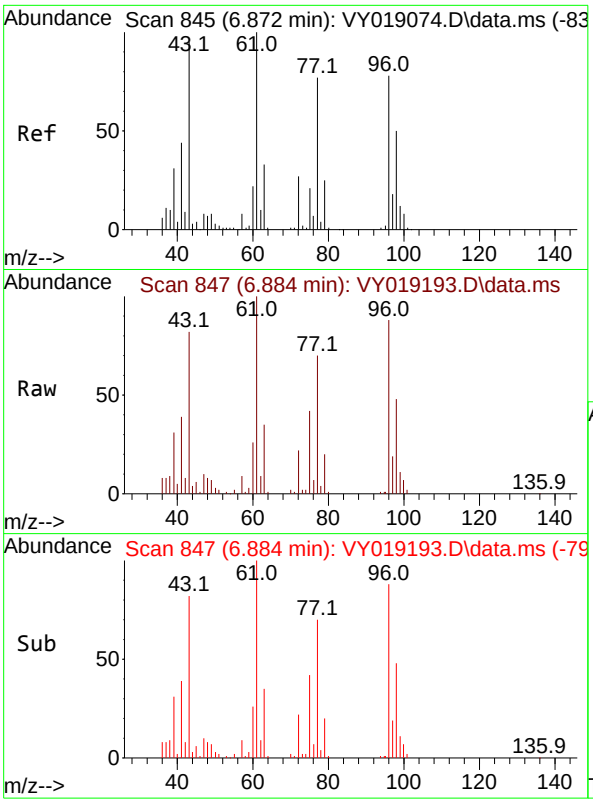


#24
1,1-Dichloroethane
Concen: 21.946 ug/l
RT: 5.903 min Scan# 686
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 63 Resp: 46062

Ion	Ratio	Lower	Upper
63	100		
98	6.8	4.0	12.2
100	4.2	2.6	8.0





#25
2-Butanone
Concen: 91.844 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

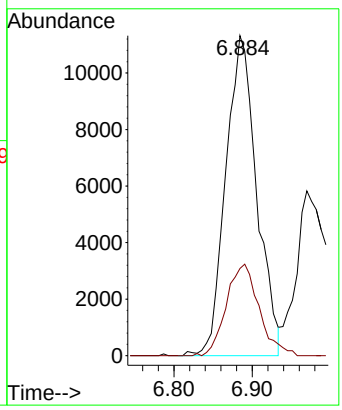
Tgt Ion: 43 Resp: 3108

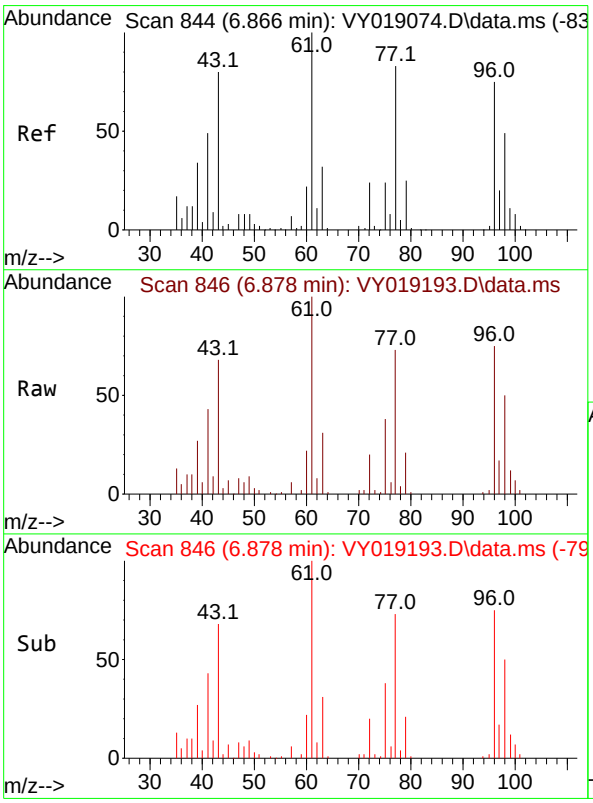
Ion	Ratio	Lower	Upper
43	100		
72	27.3	27.3	40.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

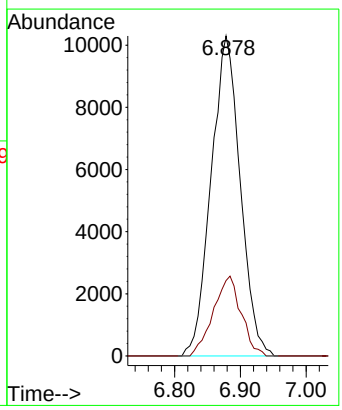


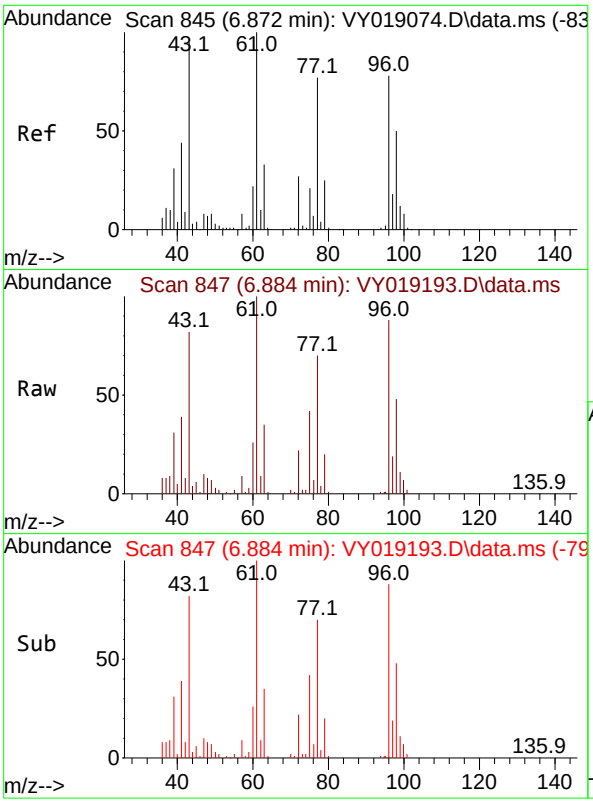


#26
2,2-Dichloropropane
Concen: 18.644 ug/l
RT: 6.878 min Scan# 846
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 77 Resp: 31689

Ion	Ratio	Lower	Upper
77	100		
97	23.8	12.0	36.1





#27
cis-1,2-Dichloroethene
Concen: 20.638 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

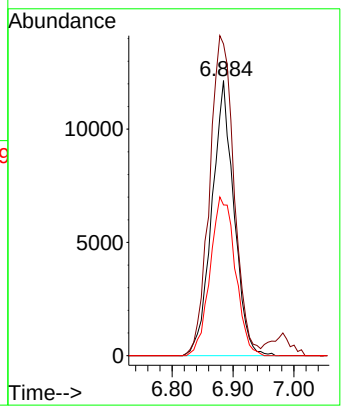
Tgt Ion: 96 Resp: 3059

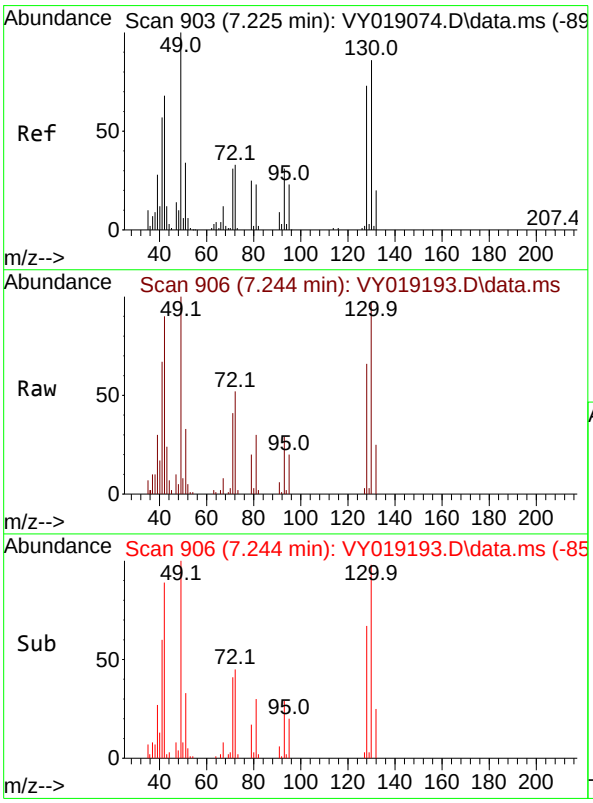
Ion	Ratio	Lower	Upper
96	100		
61	129.3	0.0	256.2
98	65.8	0.0	130.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

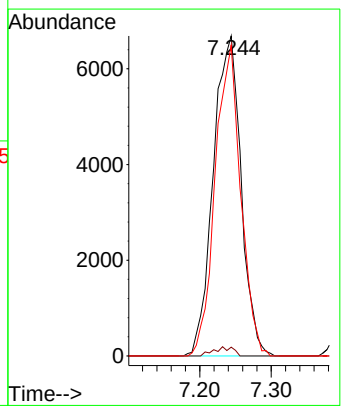


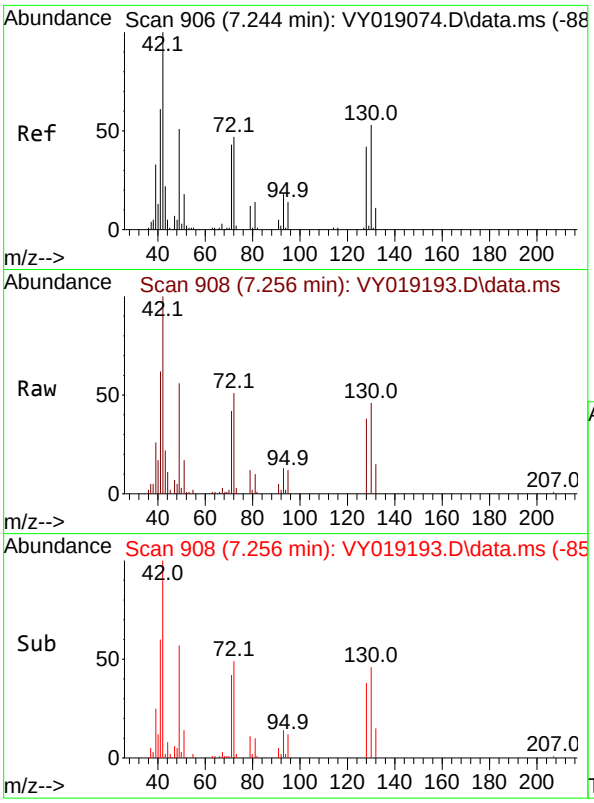


#28
Bromochloromethane
Concen: 20.521 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.019 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 49 Resp: 18068

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.6
130	89.1	72.7	109.1

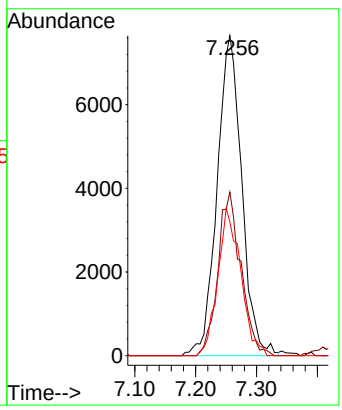




#29
Tetrahydrofuran
Concen: 98.717 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 42 Resp: 2147

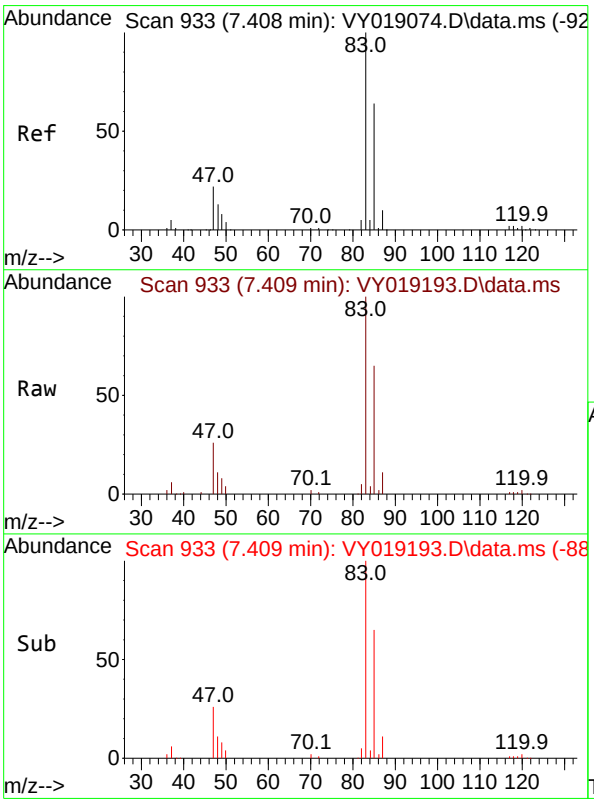
Ion	Ratio	Lower	Upper
42	100		
72	47.7	43.0	64.4
71	43.0	40.8	61.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

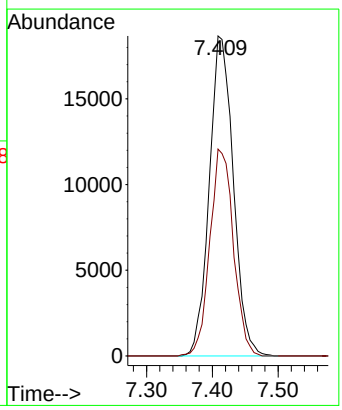
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

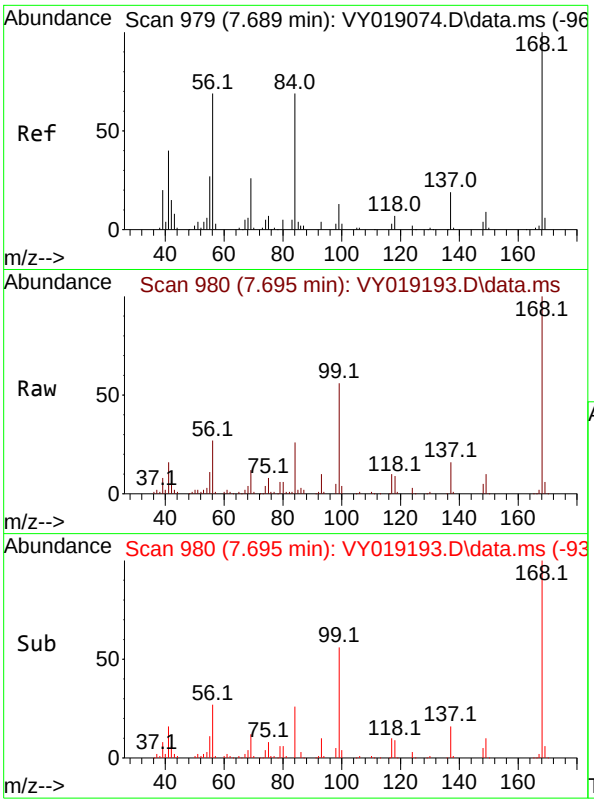


#30
Chloroform
Concen: 20.278 ug/l
RT: 7.409 min Scan# 933
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 83 Resp: 47426

Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.2	78.4

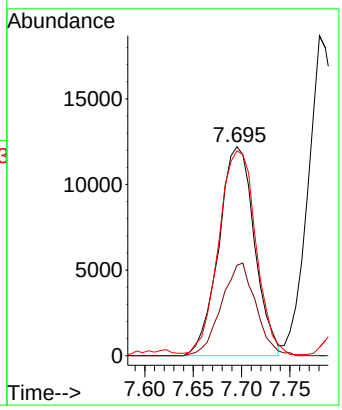




#31
Cyclohexane
Concen: 16.471 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 56 Resp: 3135

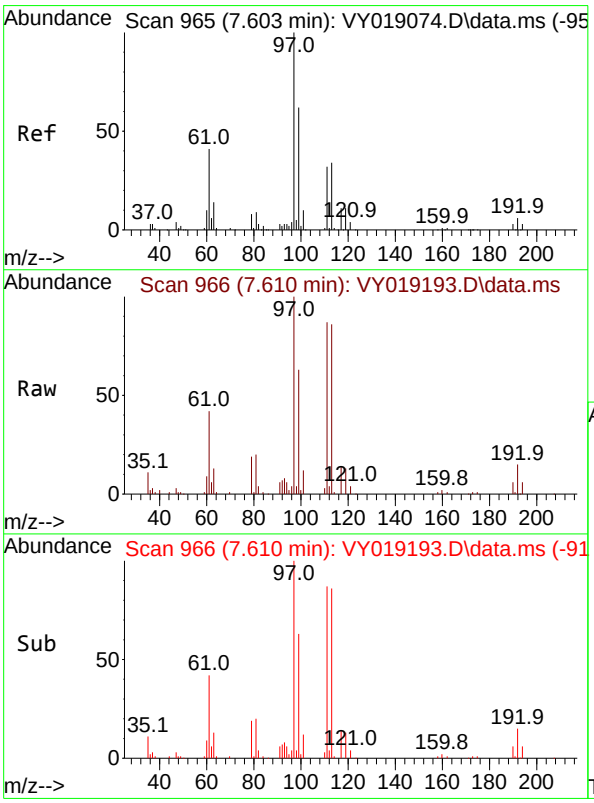
Ion	Ratio	Lower	Upper
56	100		
69	43.3	28.7	43.1
84	96.8	77.7	116.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

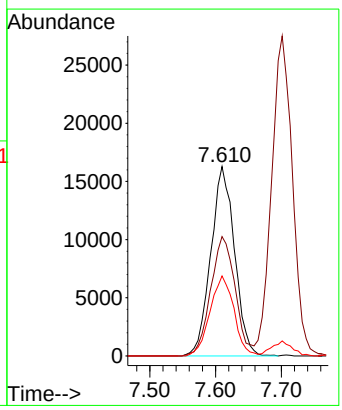
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

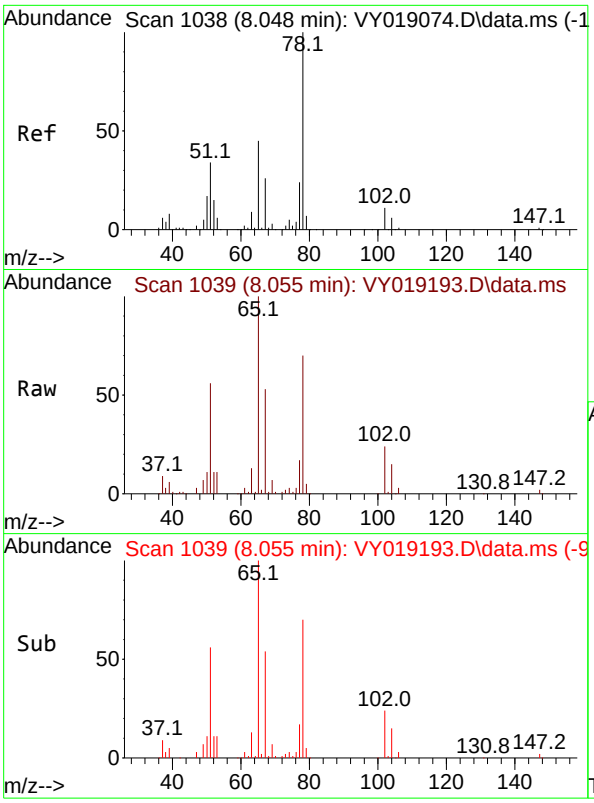


#32
1,1,1-Trichloroethane
Concen: 19.908 ug/l
RT: 7.610 min Scan# 966
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 97 Resp: 40918

Ion	Ratio	Lower	Upper
97	100		
99	65.2	50.3	75.5
61	42.5	32.6	48.8

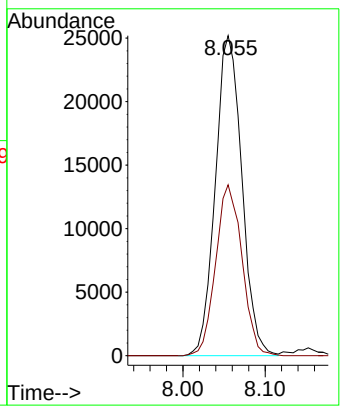




#33
1,2-Dichloroethane-d4
Concen: 49.817 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 65 Resp: 5645

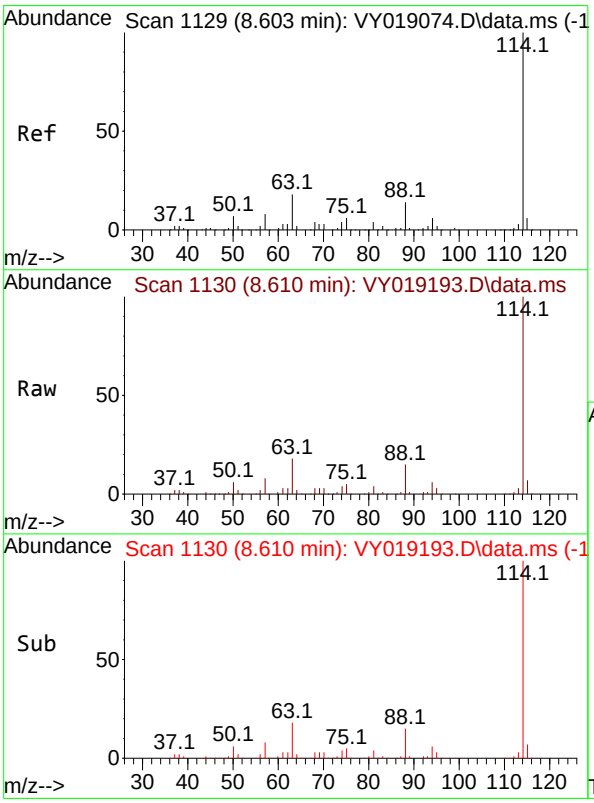
Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	109.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

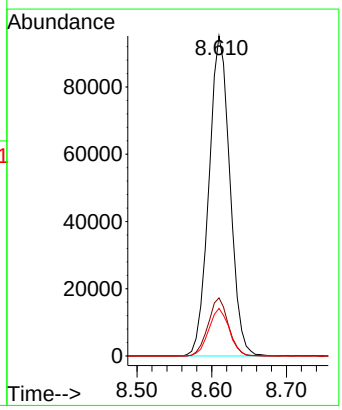
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

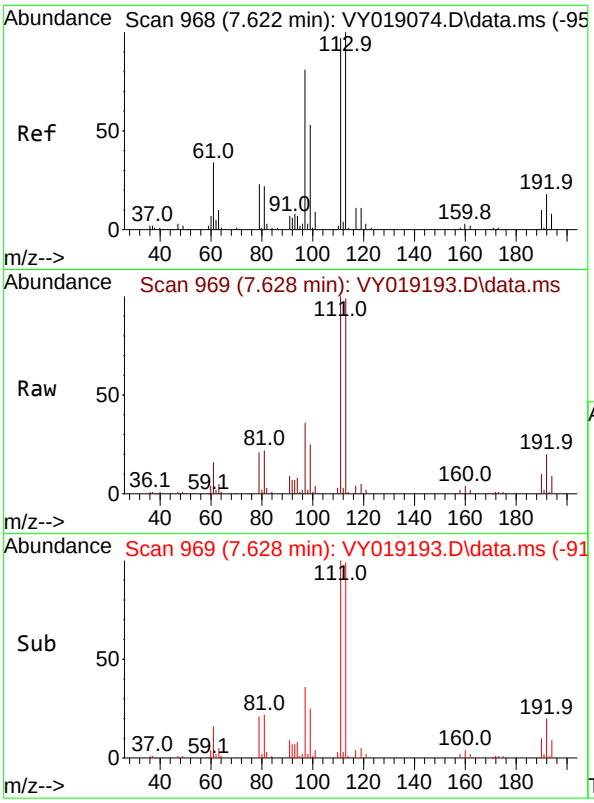


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:114 Resp: 185672

Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	35.0
88	14.9	0.0	27.2

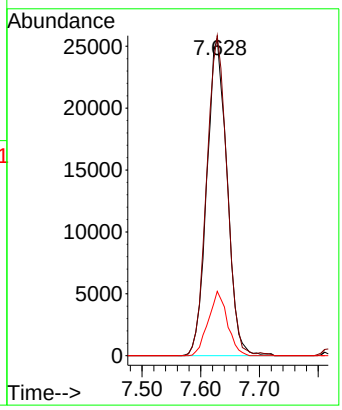




#35
Dibromofluoromethane
Concen: 50.478 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:113 Resp: 6128

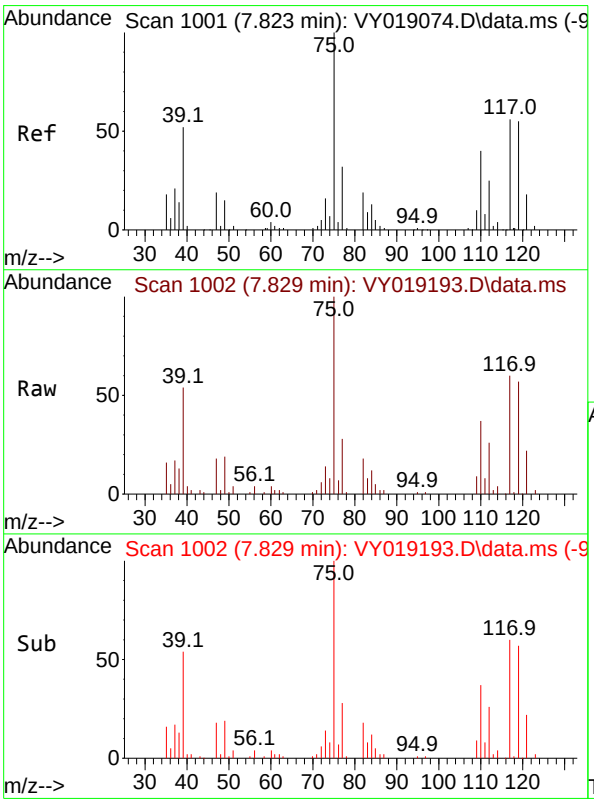
Ion	Ratio	Lower	Upper
113	100		
111	101.1	82.2	123.4
192	19.1	15.9	23.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

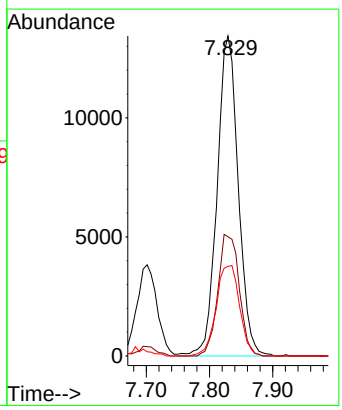
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

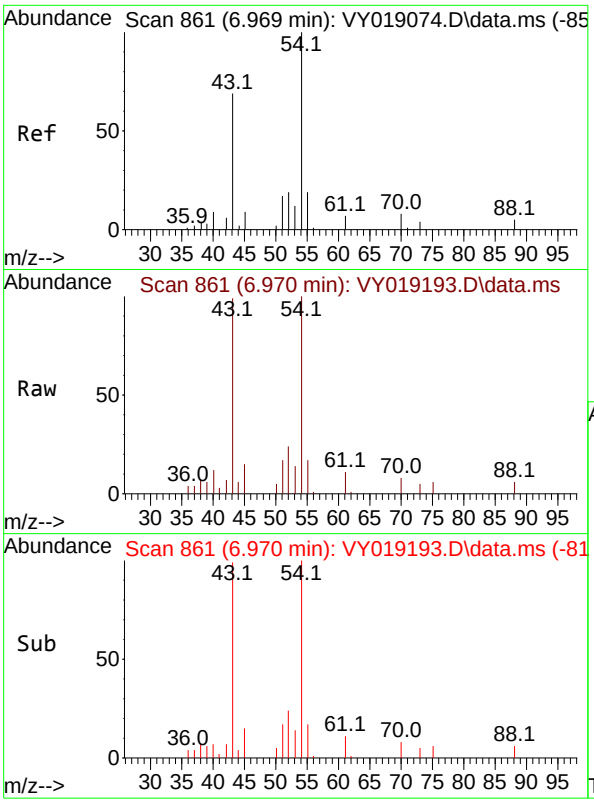


#36
1,1-Dichloropropene
Concen: 18.679 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 75 Resp: 31140

Ion	Ratio	Lower	Upper
75	100		
110	38.3	19.0	57.0
77	31.3	25.3	37.9





#37
Ethyl Acetate
Concen: 22.196 ug/l
RT: 6.970 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

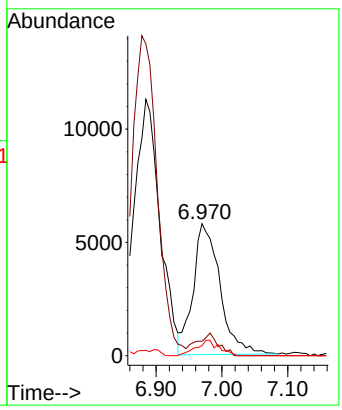
Tgt Ion: 43 Resp: 1639

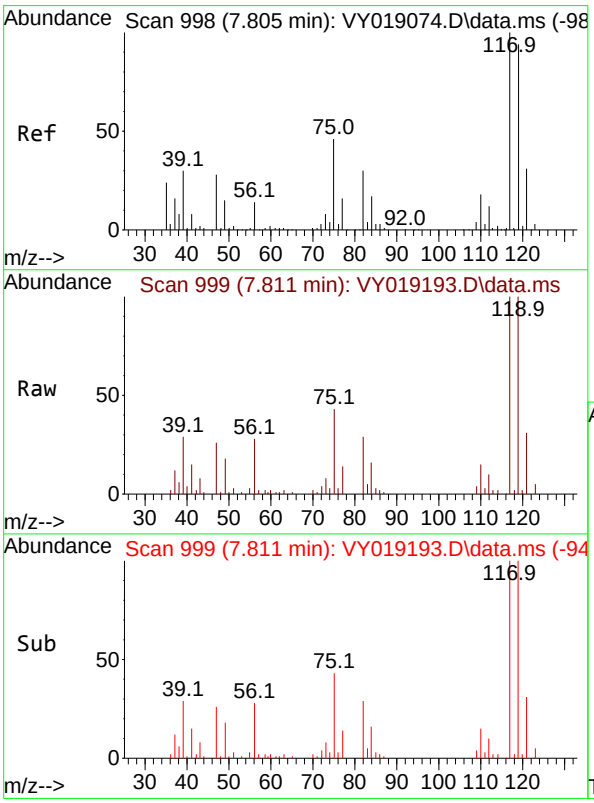
Ion	Ratio	Lower	Upper
43	100		
61	13.9	12.6	19.0
70	9.9	7.8	11.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

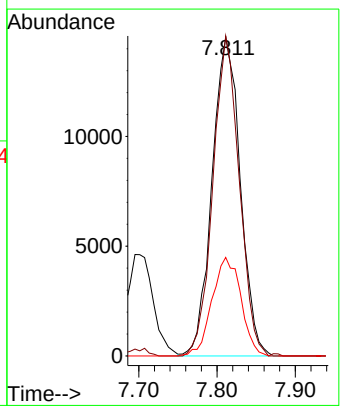


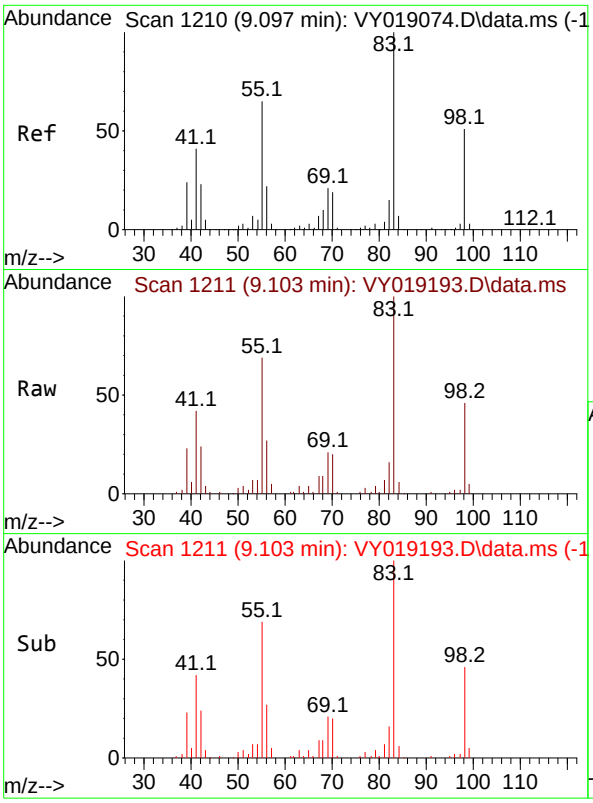


#38
Carbon Tetrachloride
Concen: 18.779 ug/l
RT: 7.811 min Scan# 999
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:117 Resp: 36281

Ion	Ratio	Lower	Upper
117	100		
119	100.5	75.8	113.6
121	31.0	24.0	36.0

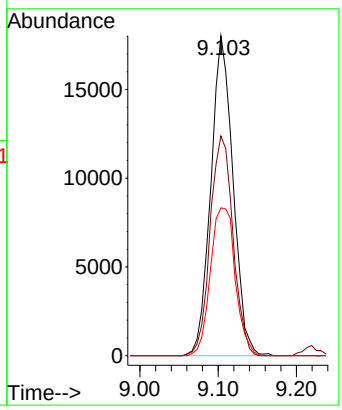




#39
Methylcyclohexane
Concen: 16.604 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 83 Resp: 3552

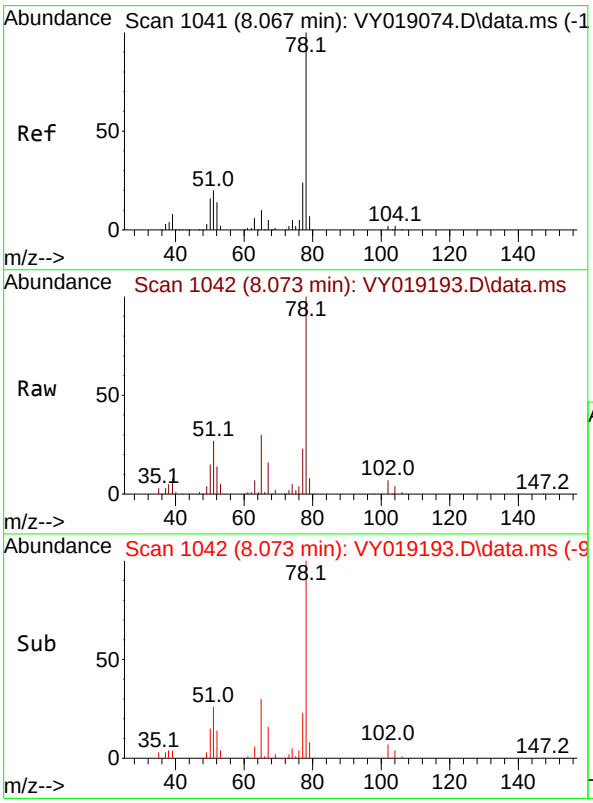
Ion	Ratio	Lower	Upper
83	100		
55	68.7	51.5	77.3
98	46.2	40.5	60.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

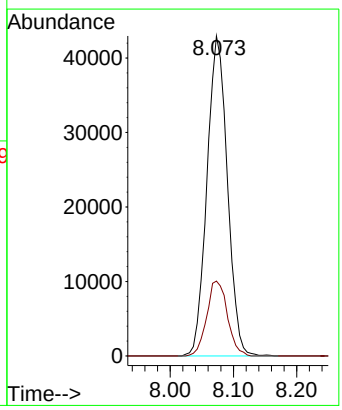
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

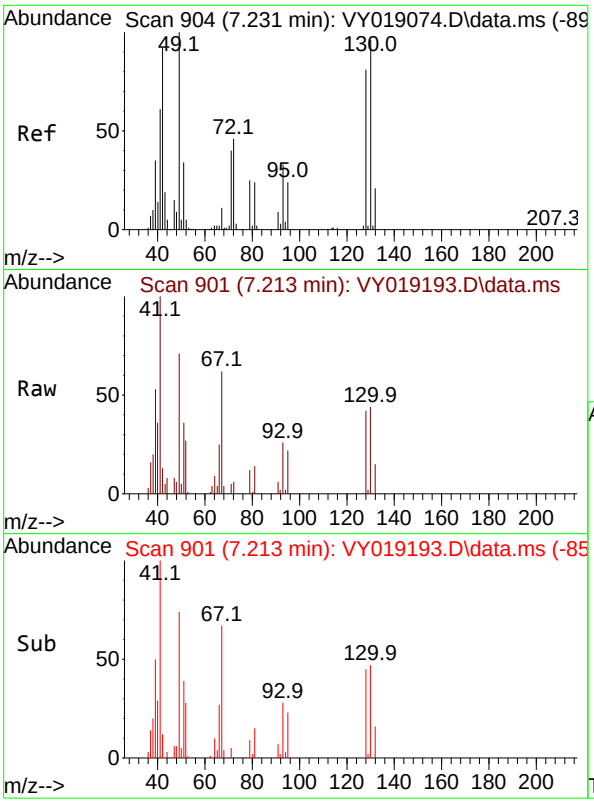


#40
Benzene
Concen: 18.856 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 78 Resp: 96409

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.5	29.3

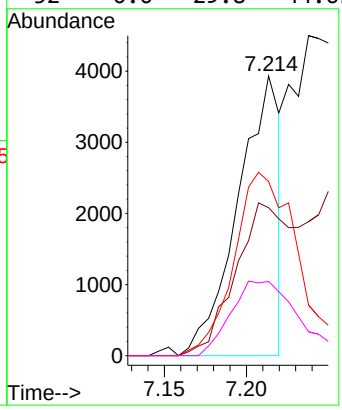




#41
Methacrylonitrile
Concen: 17.347 ug/l m
RT: 7.213 min Scan# 9
Delta R.T. -0.018 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 41 Resp: 699

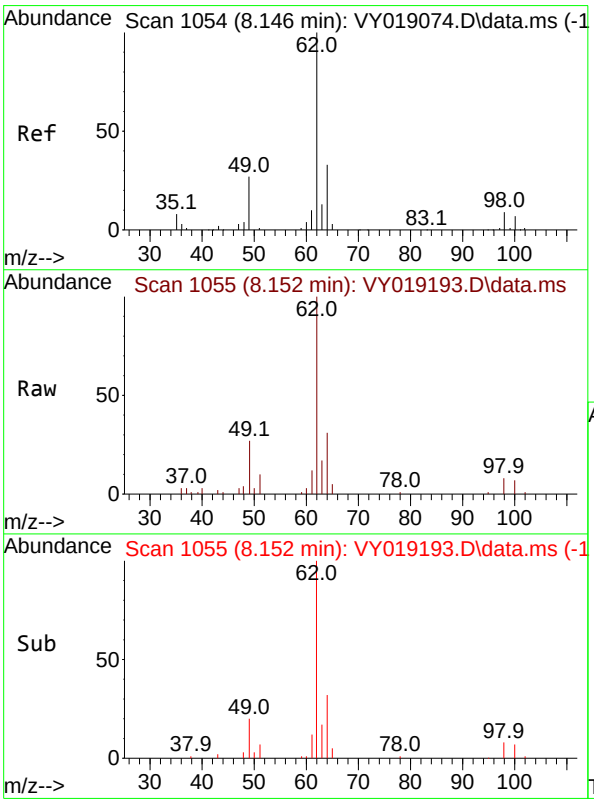
Ion	Ratio	Lower	Upper
41	100		
39	0.0	48.0	72.0#
67	0.0	75.1	112.7#
52	0.0	29.8	44.6#



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

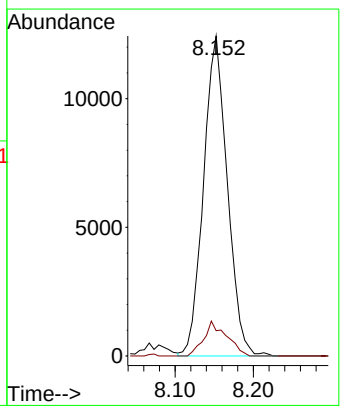
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

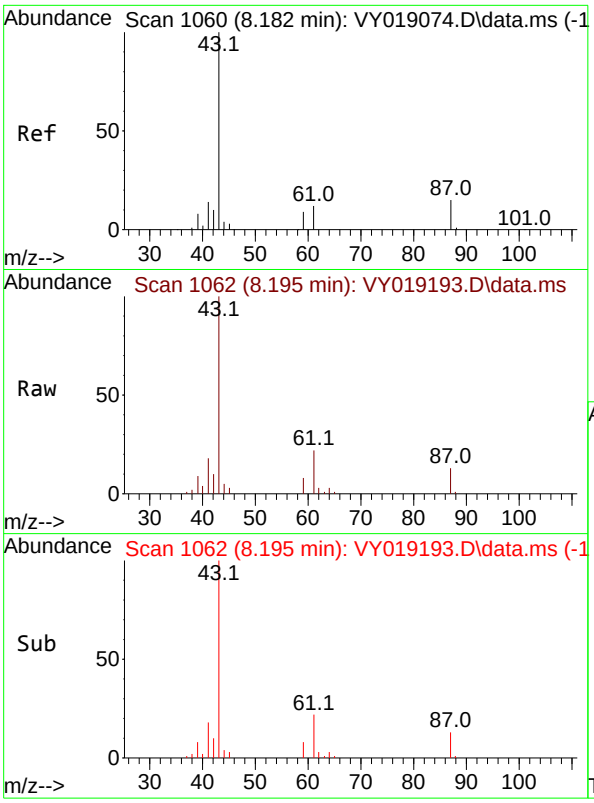


#42
1,2-Dichloroethane
Concen: 19.042 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 62 Resp: 26291

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	22.0

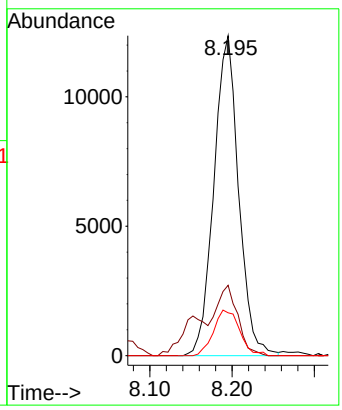




#43
Isopropyl Acetate
Concen: 17.330 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 43 Resp: 2588

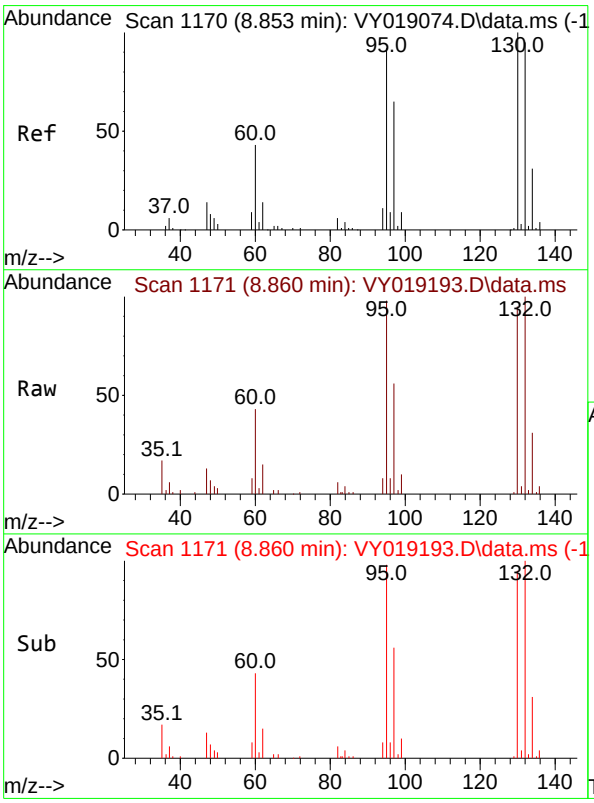
Ion	Ratio	Lower	Upper
43	100		
61	19.4	27.9	41.9#
87	15.0	13.1	19.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

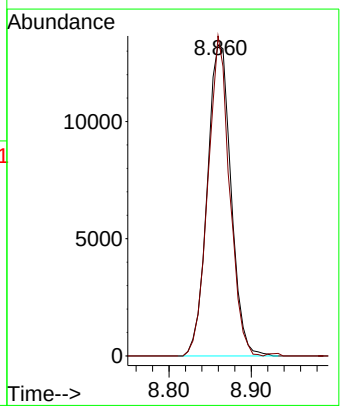
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

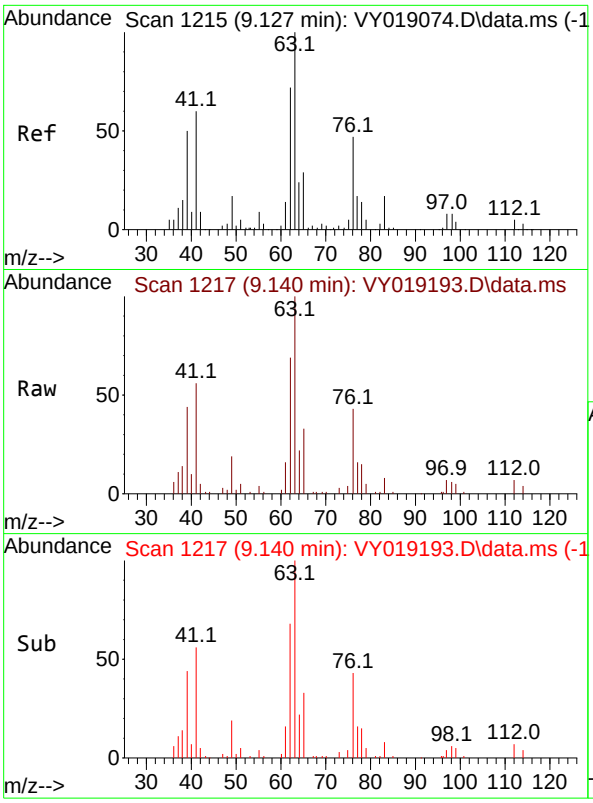


#44
Trichloroethene
Concen: 18.700 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:130 Resp: 26678

Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	188.0

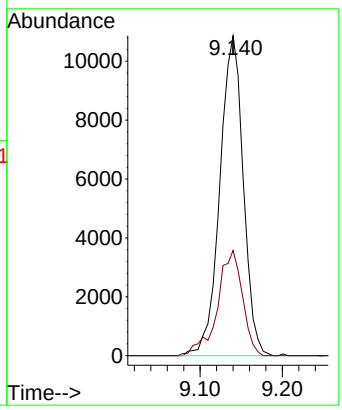




#45
1,2-Dichloropropane
Concen: 18.915 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 63 Resp: 2154

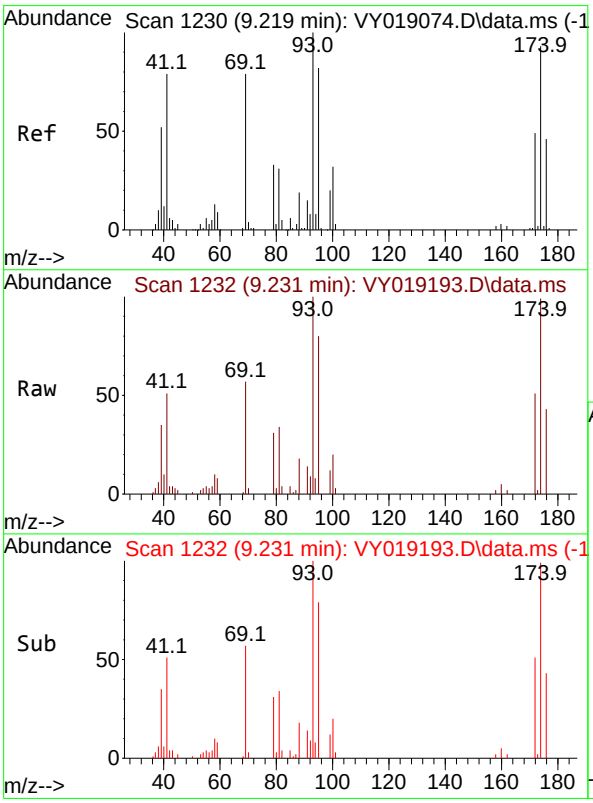
Ion	Ratio	Lower	Upper
63	100		
65	32.9	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

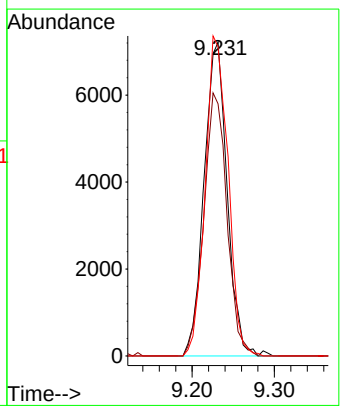
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

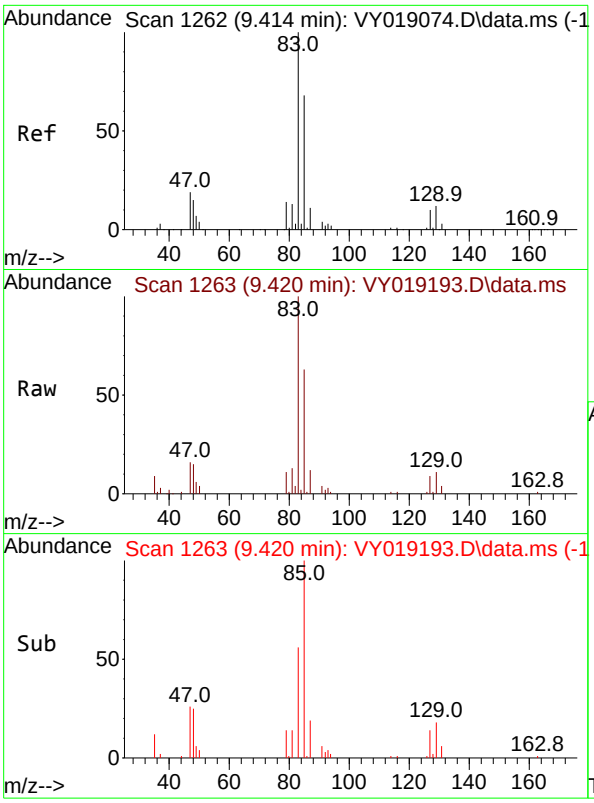


#46
Dibromomethane
Concen: 18.993 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 93 Resp: 14033

Ion	Ratio	Lower	Upper
93	100		
95	84.2	66.2	99.4
174	100.8	80.9	121.3

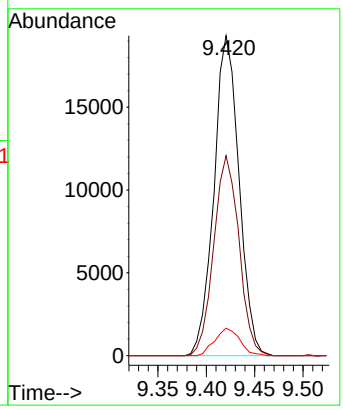




#47
Bromodichloromethane
Concen: 19.221 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 83 Resp: 3484

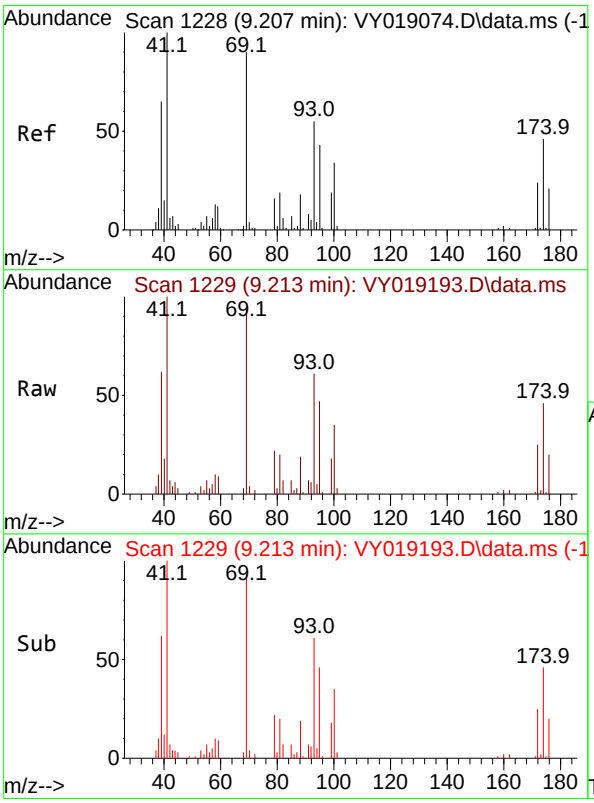
Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.1	75.1
127	8.6	7.4	11.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

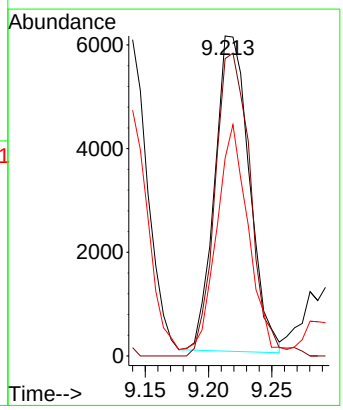
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

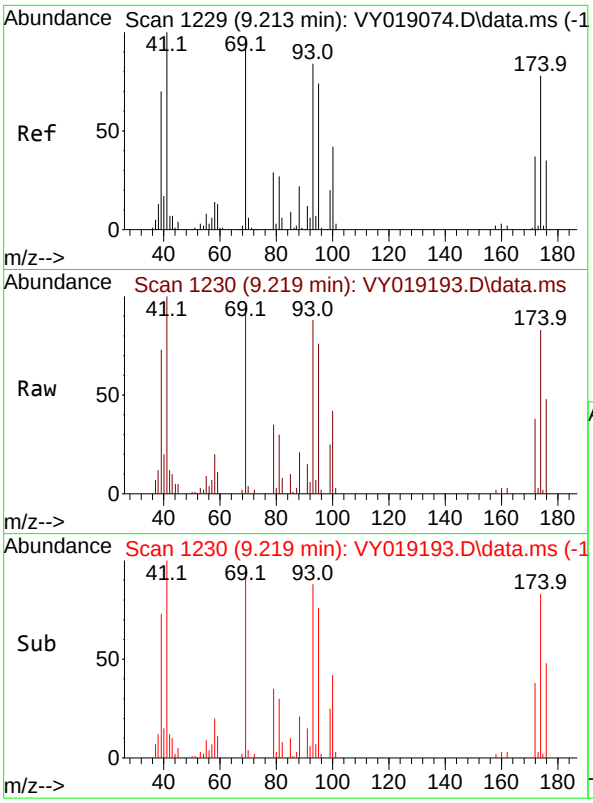


#48
Methyl methacrylate
Concen: 17.398 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 41 Resp: 11582

Ion	Ratio	Lower	Upper
41	100		
69	98.3	84.1	126.1
39	68.6	43.6	65.4#

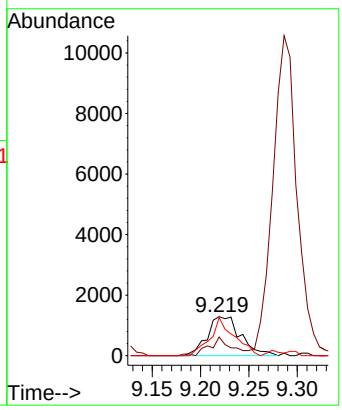




#49
1,4-Dioxane
Concen: 347.031 ug/l
RT: 9.219 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 88 Resp: 310

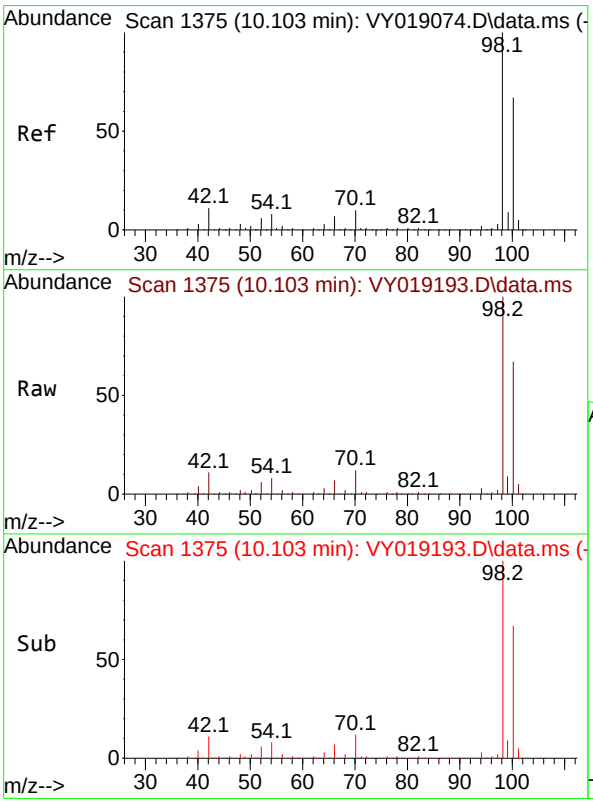
Ion	Ratio	Lower	Upper
88	100		
43	30.5	0.0	0.0
58	69.6	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

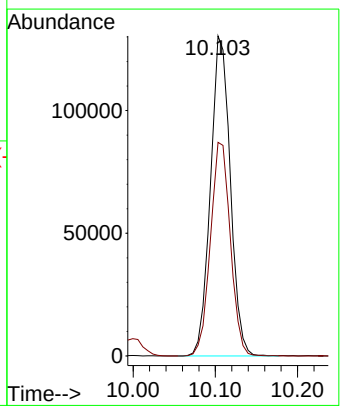
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

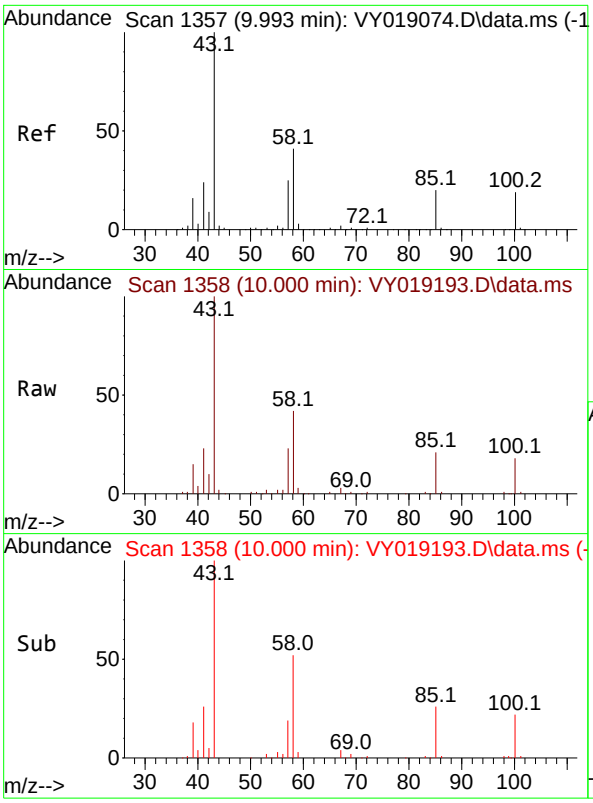


#50
Toluene-d8
Concen: 49.955 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 98 Resp: 218248

Ion	Ratio	Lower	Upper
98	100		
100	67.1	52.0	78.0

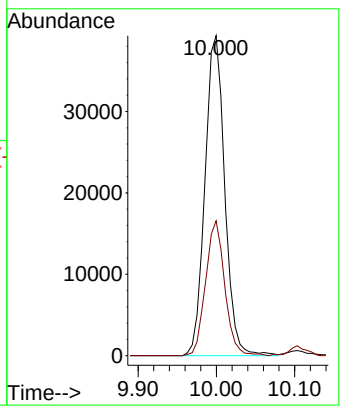




#51
4-Methyl-2-Pentanone
Concen: 87.019 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 43 Resp: 6899

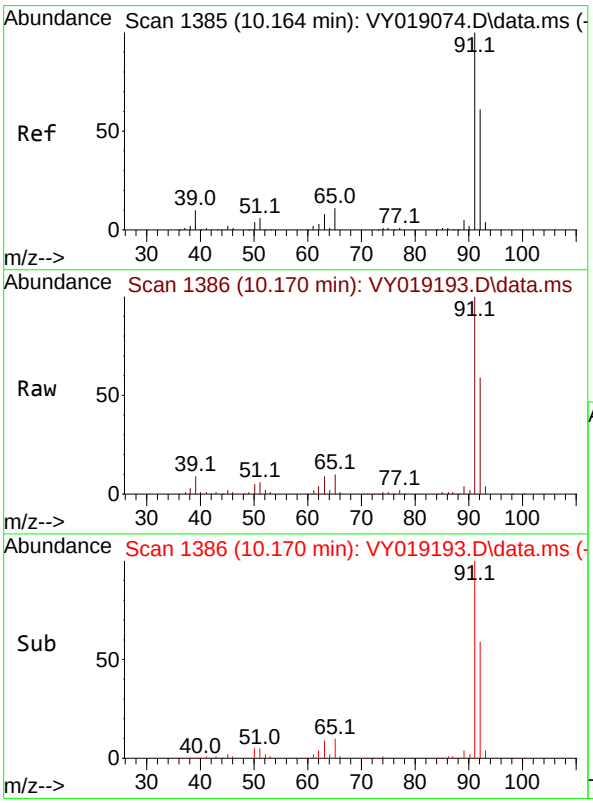
Ion	Ratio	Lower	Upper
43	100		
58	40.8	35.7	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations APPROVED

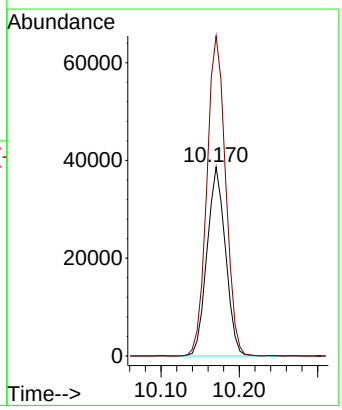
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

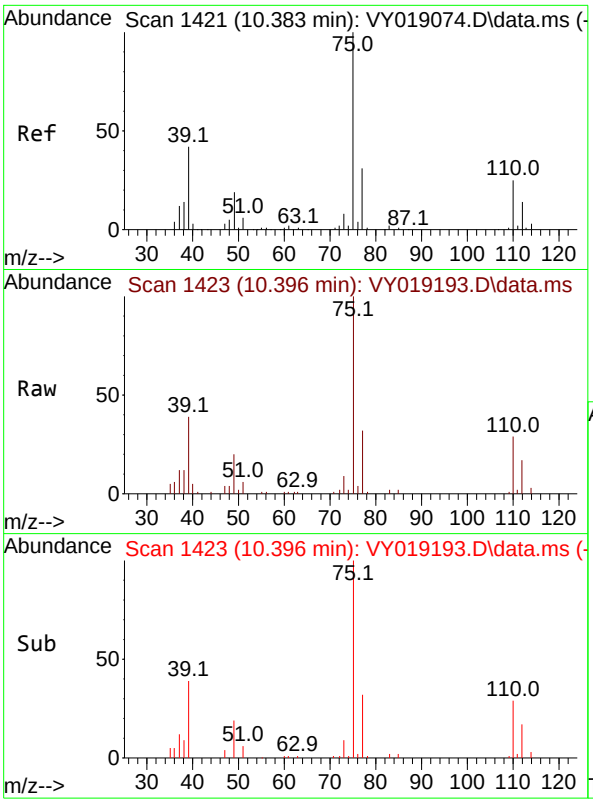


#52
Toluene
Concen: 18.831 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 92 Resp: 63199

Ion	Ratio	Lower	Upper
92	100		
91	171.8	139.0	208.6

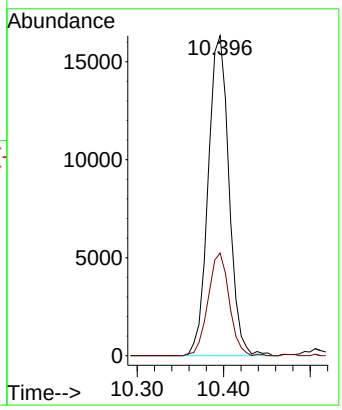




#53
t-1,3-Dichloropropene
Concen: 18.106 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.013 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 75 Resp: 2722

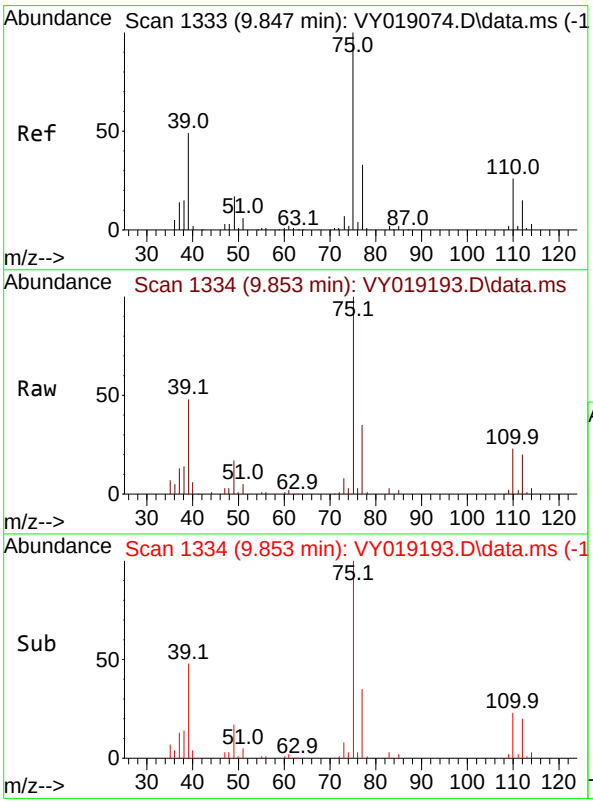
Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.1	36.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

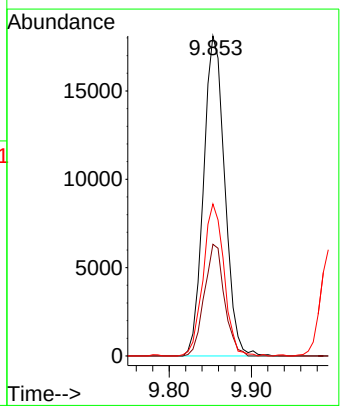
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

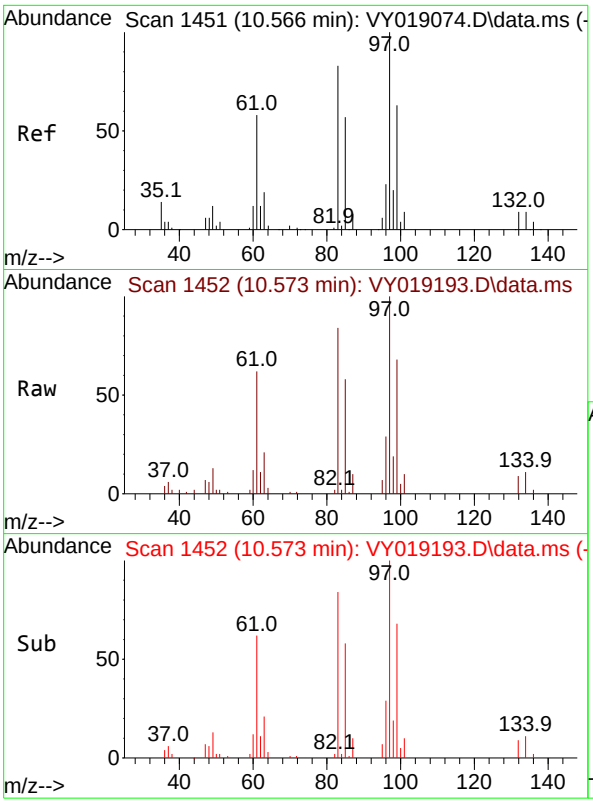


#54
cis-1,3-Dichloropropene
Concen: 17.916 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 75 Resp: 32400

Ion	Ratio	Lower	Upper
75	100		
77	34.9	25.4	38.0
39	47.5	29.8	44.6#

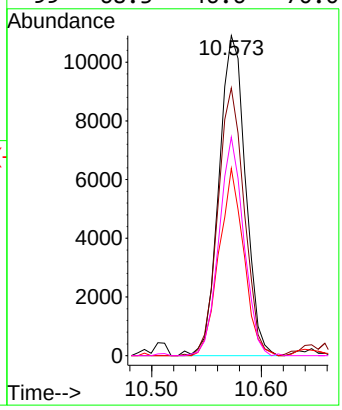




#55
1,1,2-Trichloroethane
Concen: 19.261 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 97 Resp: 1832

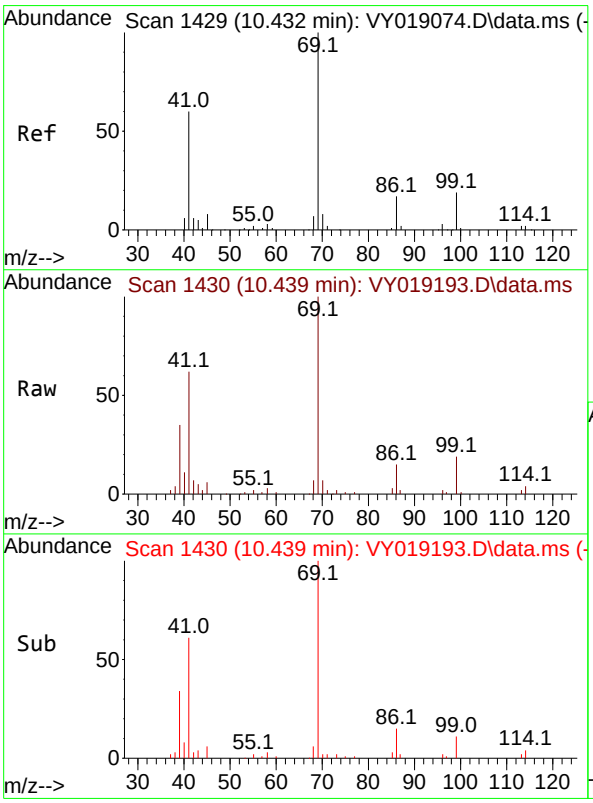
Ion	Ratio	Lower	Upper
97	100		
83	83.7	67.5	101.3
85	58.5	42.9	64.3
99	68.3	46.6	70.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

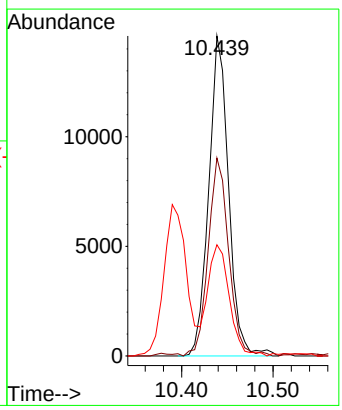
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

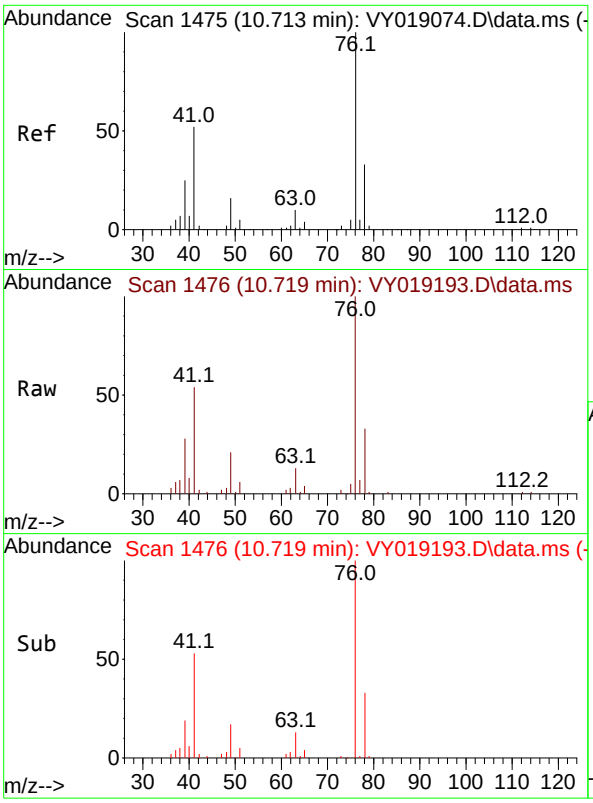


#56
Ethyl methacrylate
Concen: 17.635 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 69 Resp: 21955

Ion	Ratio	Lower	Upper
69	100		
41	64.2	42.3	63.5#
39	37.3	22.9	34.3#

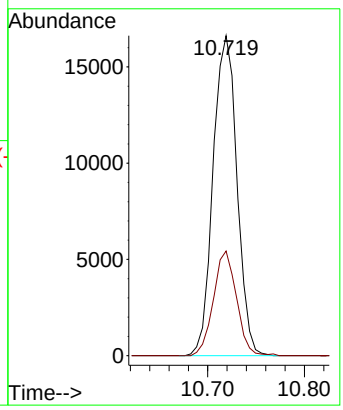




#57
1,3-Dichloropropane
Concen: 18.387 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 76 Resp: 2851

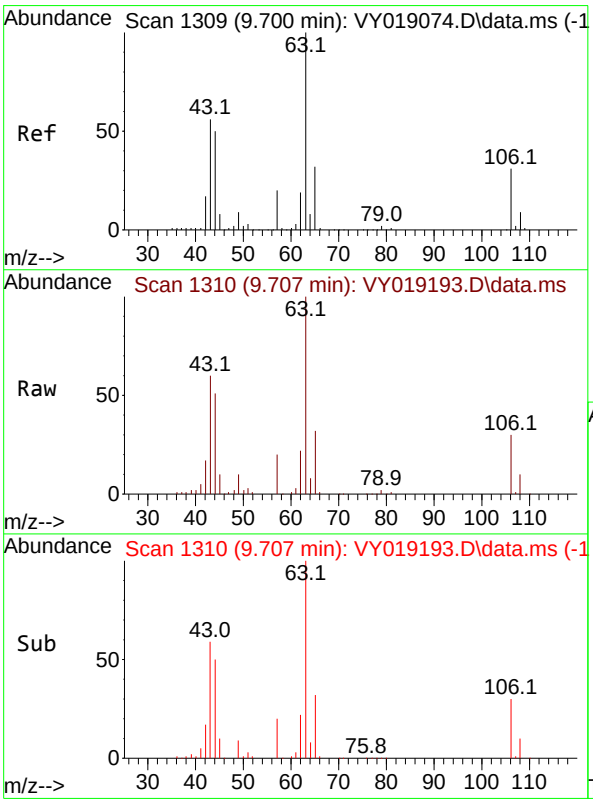
Ion	Ratio	Lower	Upper
76	100		
78	31.6	26.2	39.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

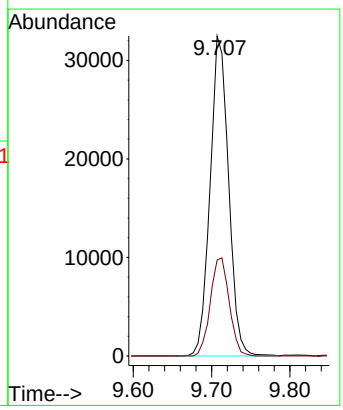
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

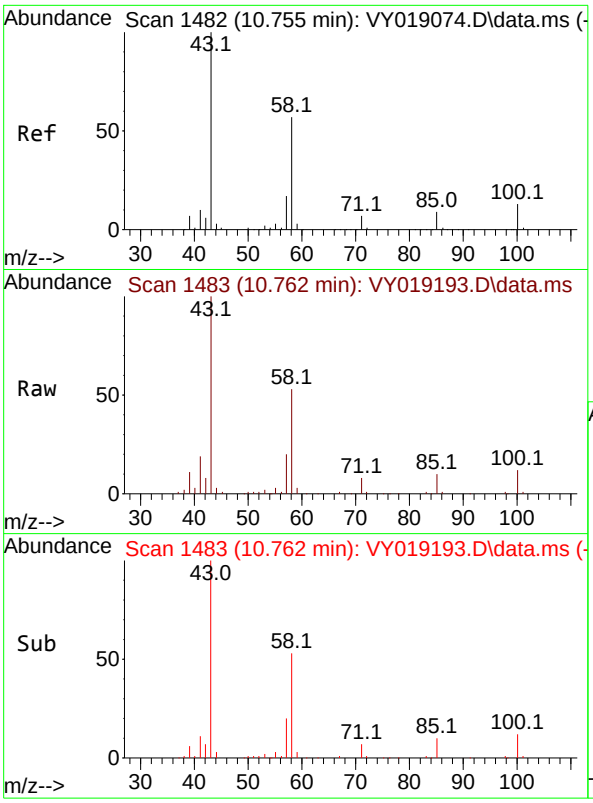


#58
2-Chloroethyl Vinyl ether
Concen: 90.200 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 63 Resp: 53273

Ion	Ratio	Lower	Upper
63	100		
106	31.2	23.7	35.5

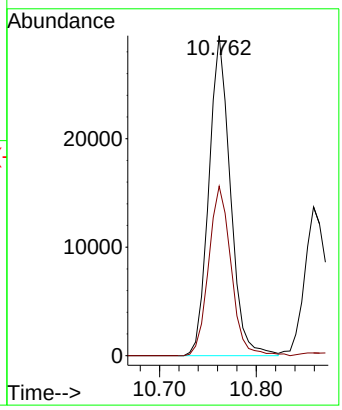




#59
2-Hexanone
Concen: 83.554 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 43 Resp: 4551

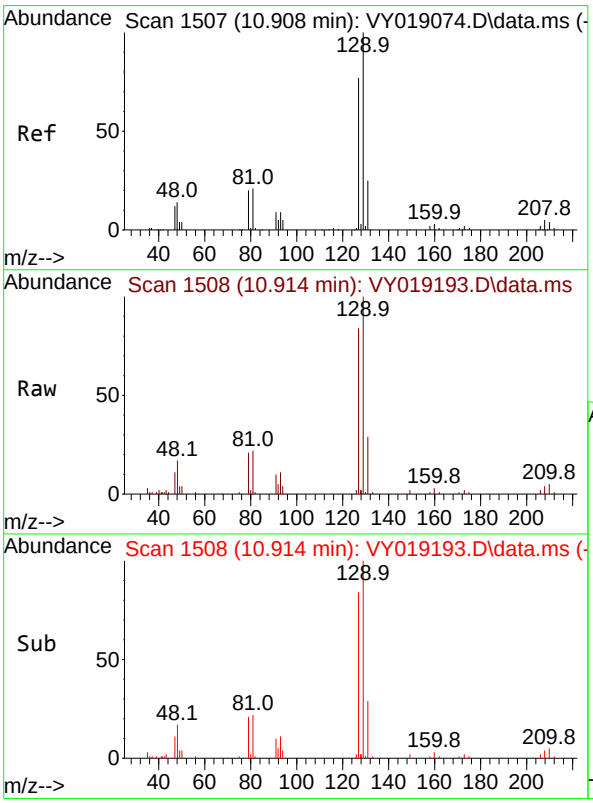
Ion	Ratio	Lower	Upper
43	100		
58	55.4	31.4	94.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

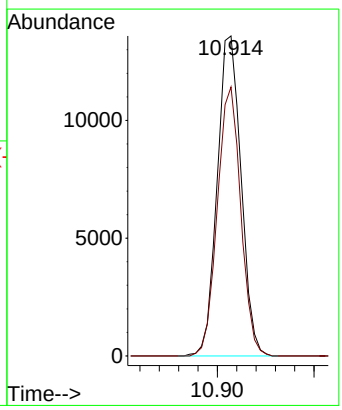
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

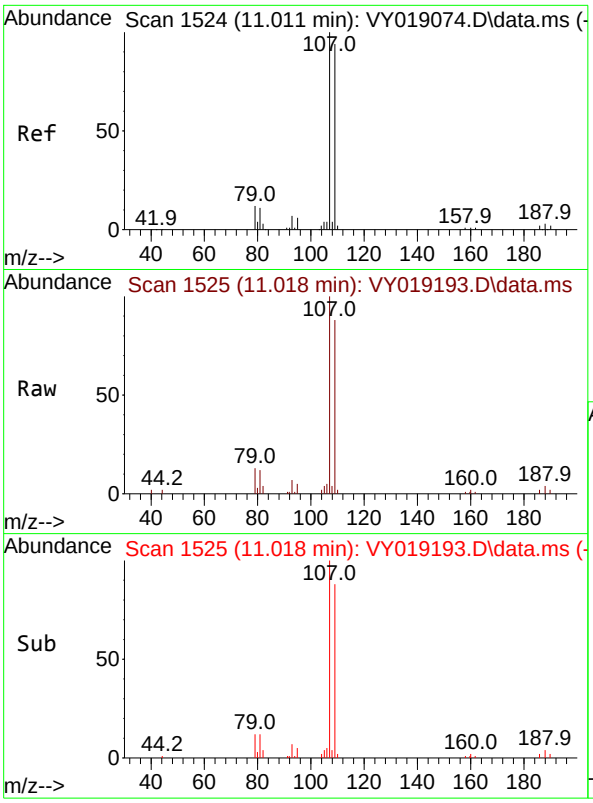


#60
Dibromochloromethane
Concen: 17.924 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:129 Resp: 23220

Ion	Ratio	Lower	Upper
129	100		
127	82.5	39.0	117.0

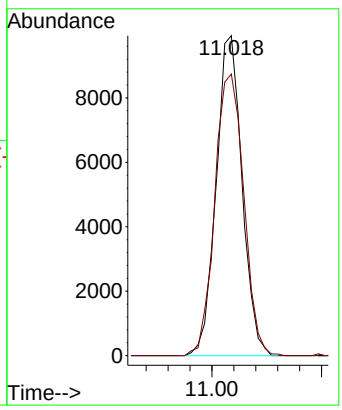




#61
1,2-Dibromoethane
Concen: 17.718 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:107 Resp: 1628

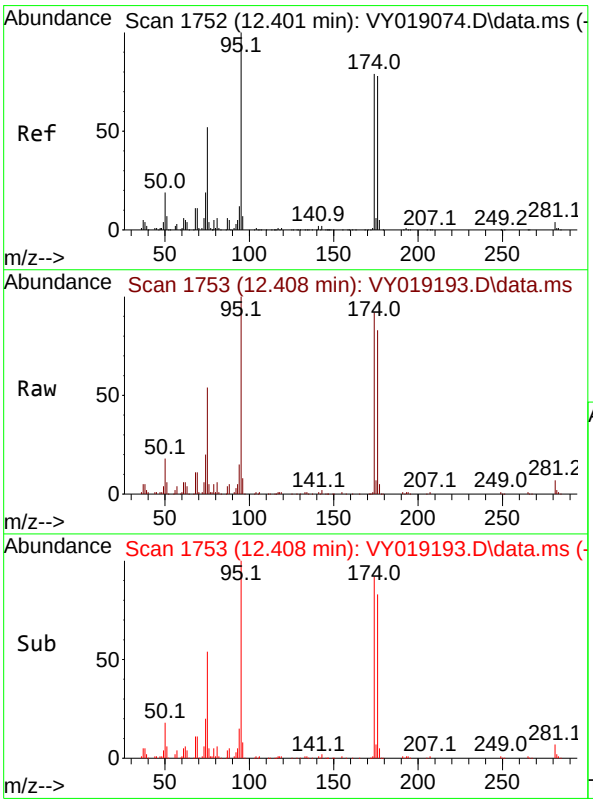
Ion	Ratio	Lower	Upper
107	100		
109	98.3	75.9	113.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

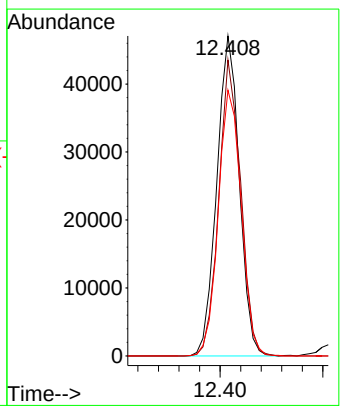
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

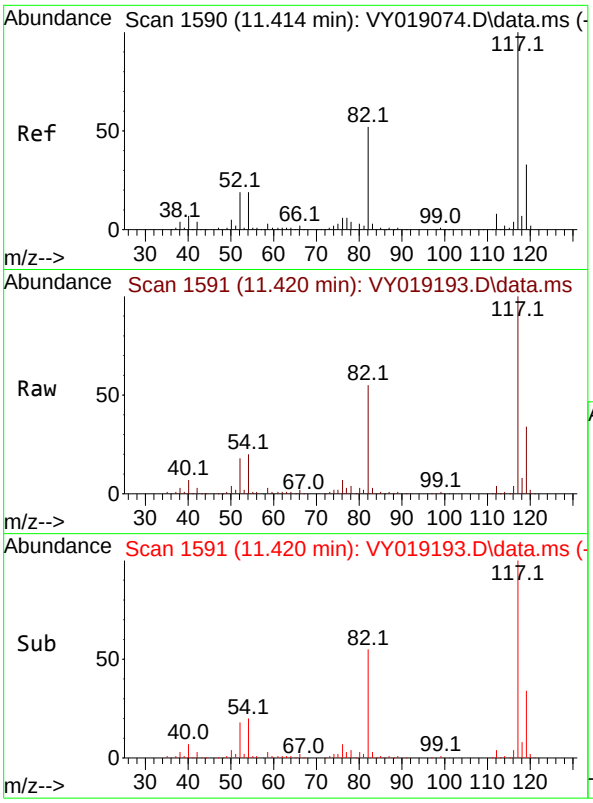


#62
4-Bromofluorobenzene
Concen: 48.016 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 95 Resp: 71512

Ion	Ratio	Lower	Upper
95	100		
174	89.8	0.0	175.6
176	84.7	0.0	171.4

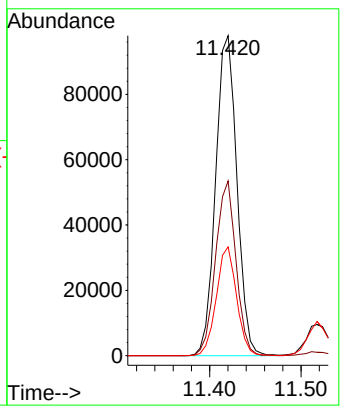




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:117 Resp: 15853

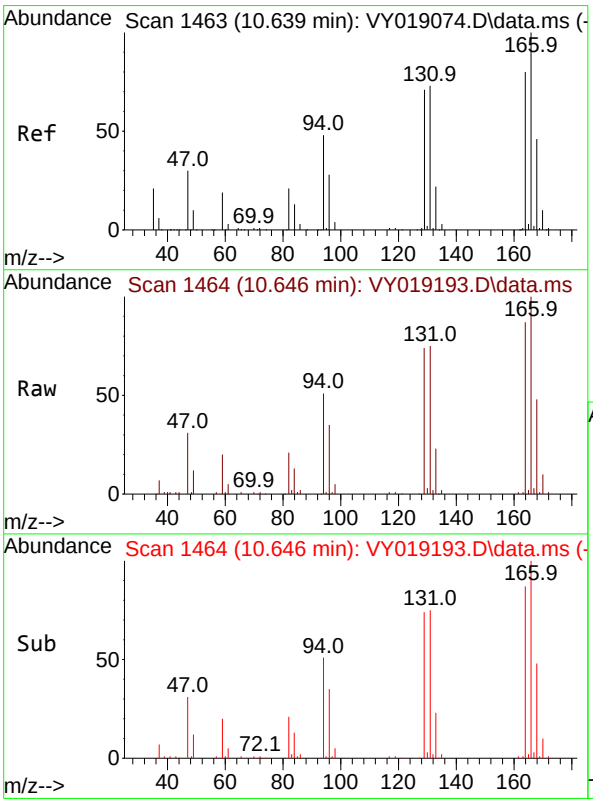
Ion	Ratio	Lower	Upper
117	100		
82	54.6	42.4	63.6
119	34.0	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

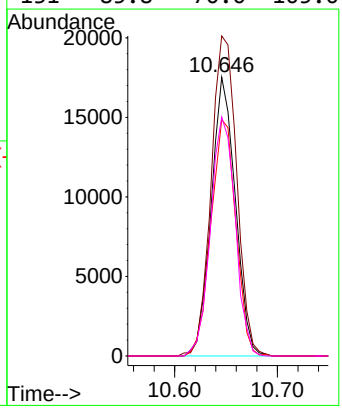
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

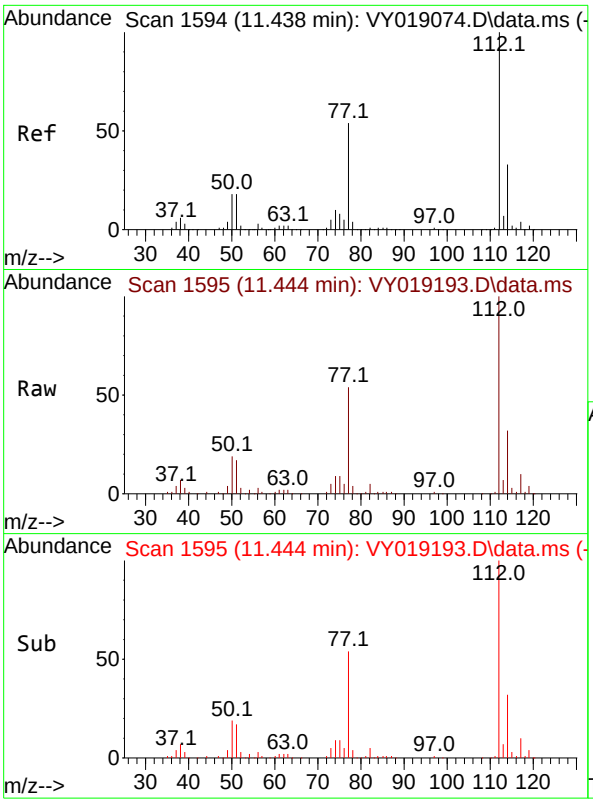


#64
Tetrachloroethene
Concen: 20.677 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:164 Resp: 28652

Ion	Ratio	Lower	Upper
164	100		
166	114.8	102.6	154.0
129	84.8	72.0	108.0
131	85.8	70.0	105.0

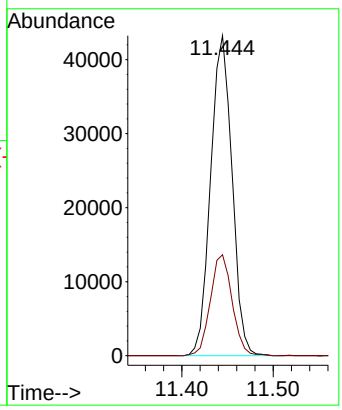




#65
Chlorobenzene
Concen: 19.276 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:112 Resp: 7036

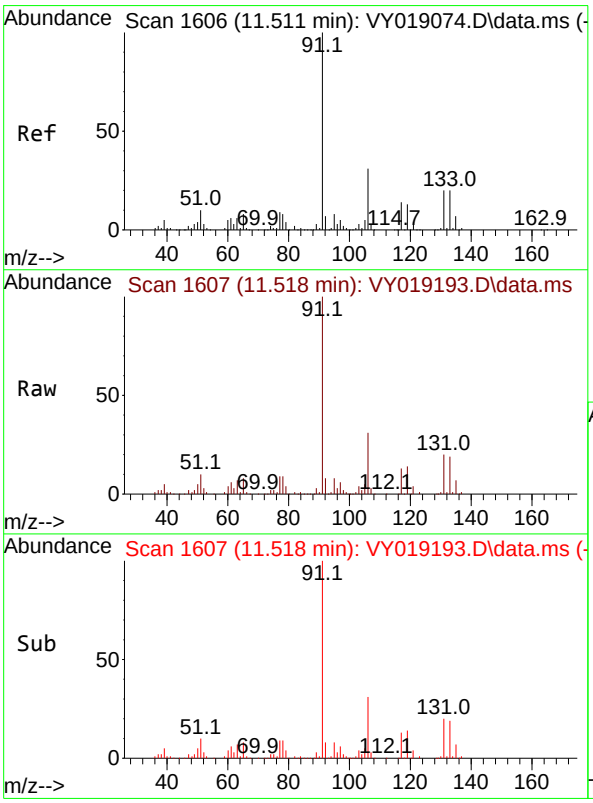
Ion	Ratio	Lower	Upper
112	100		
114	31.6	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

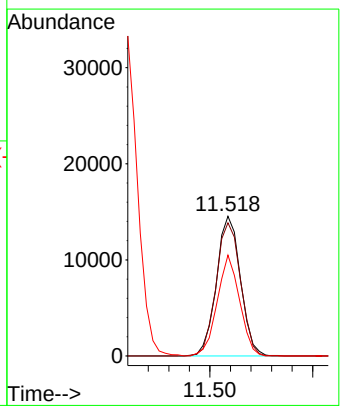
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

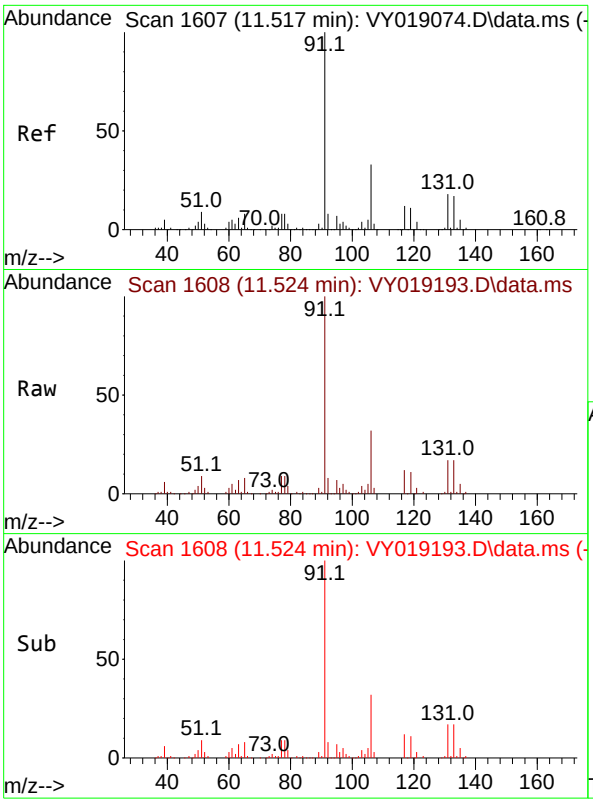


#66
1,1,1,2-Tetrachloroethane
Concen: 18.372 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:131 Resp: 23585

Ion	Ratio	Lower	Upper
131	100		
133	97.1	47.8	143.3
119	67.1	34.1	102.2

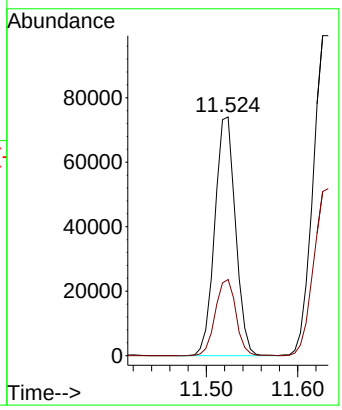




#67
Ethyl Benzene
Concen: 18.425 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 91 Resp: 11673

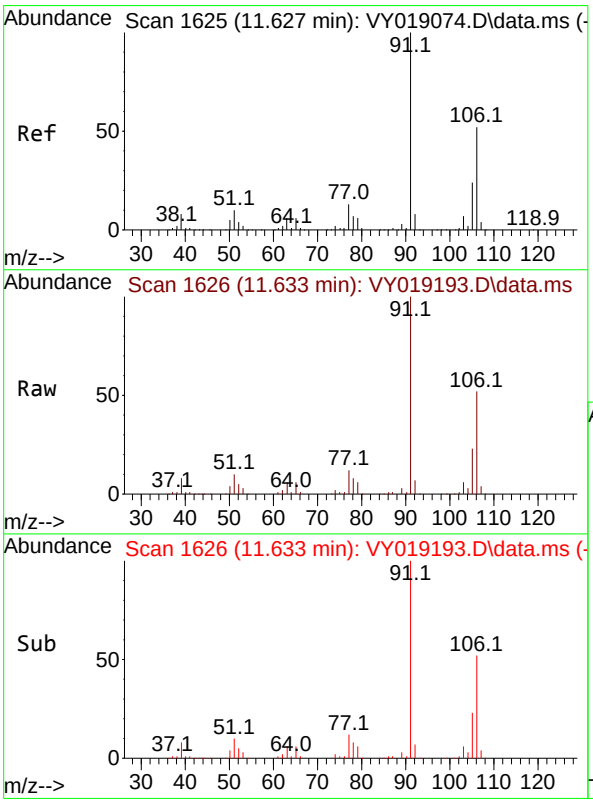
Ion	Ratio	Lower	Upper
91	100		
106	31.9	24.5	36.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations APPROVED

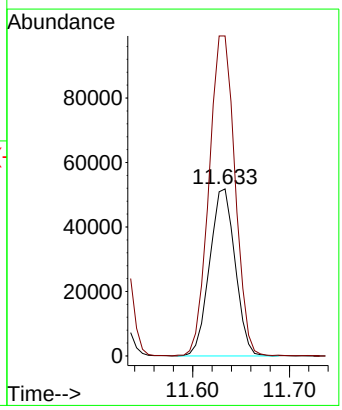
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

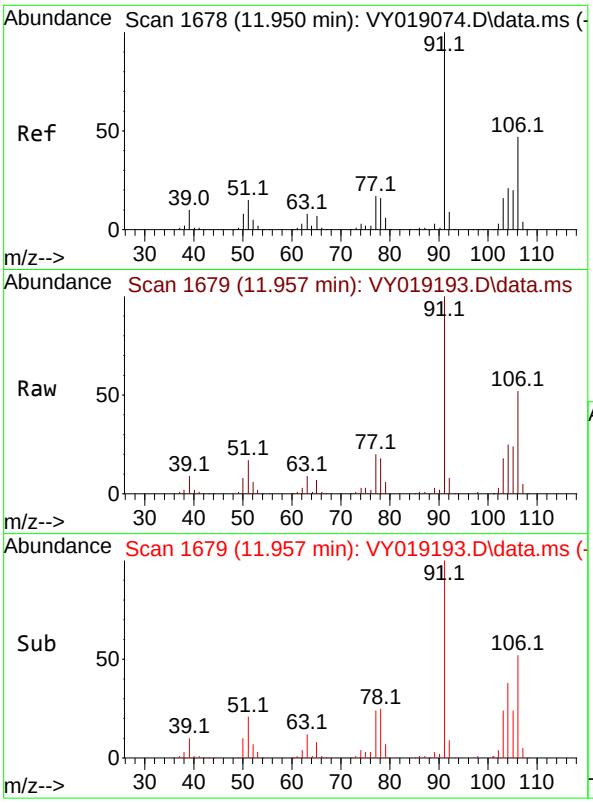


#68
m/p-Xylenes
Concen: 37.748 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:106 Resp: 94900

Ion	Ratio	Lower	Upper
106	100		
91	195.3	156.0	234.0

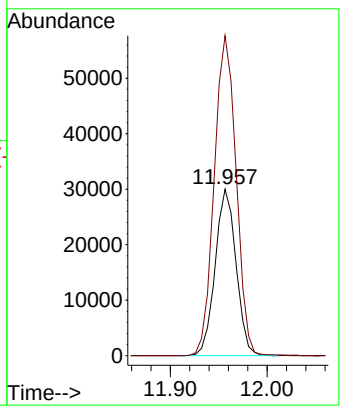




#69
o-Xylene
Concen: 19.312 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:106 Resp: 4495

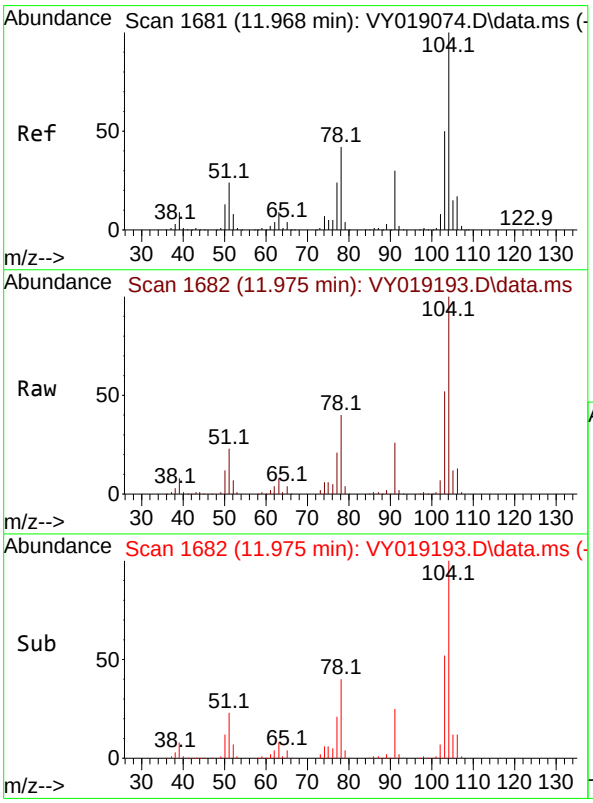
Ion	Ratio	Lower	Upper
106	100		
91	201.9	103.6	310.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

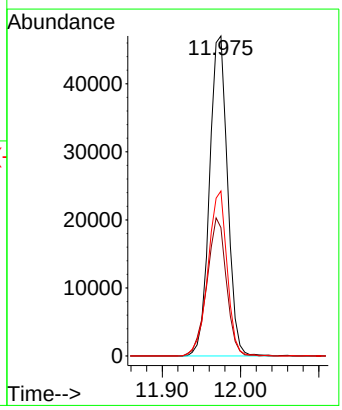
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

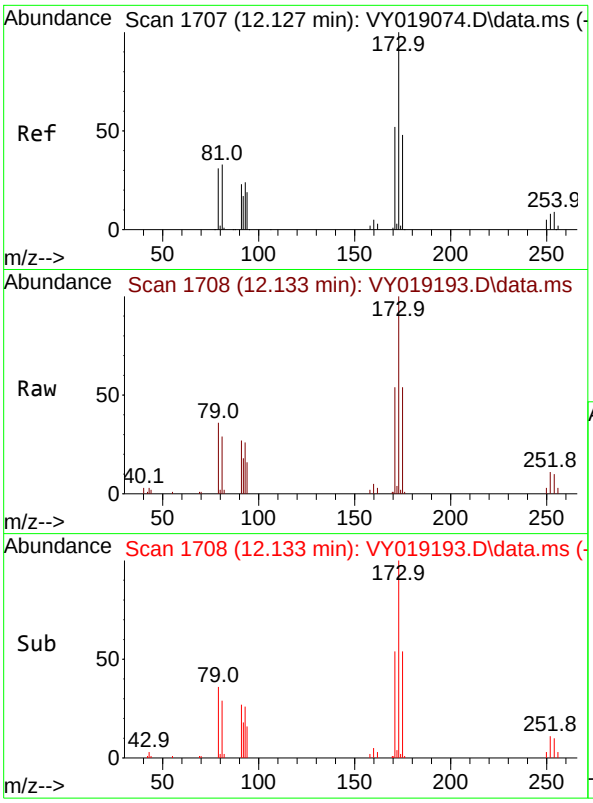


#70
Styrene
Concen: 18.897 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:104 Resp: 75023

Ion	Ratio	Lower	Upper
104	100		
78	46.7	37.0	55.4
103	54.6	44.2	66.2

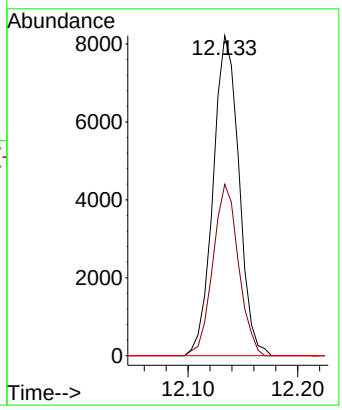




#71
Bromoform
Concen: 18.324 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

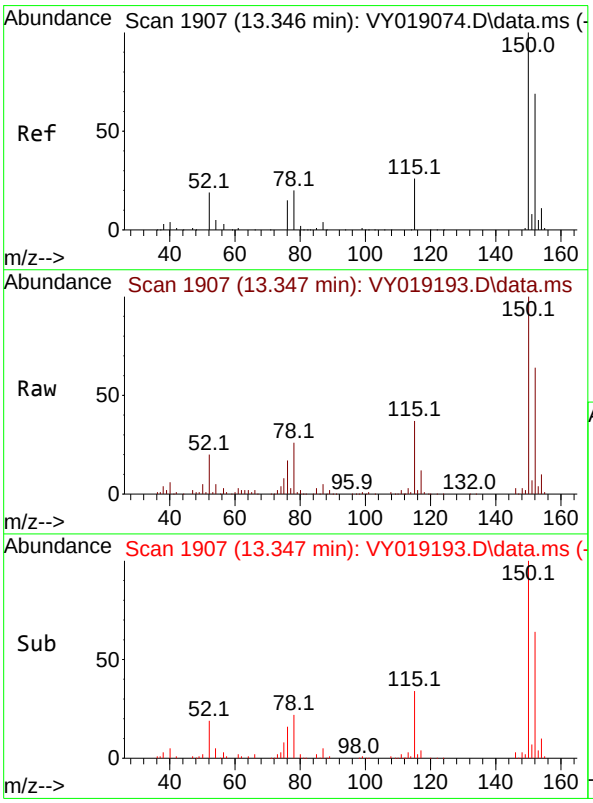
Tgt Ion:173 Resp: 1344

Ion	Ratio	Lower	Upper
173	100		
175	53.1	25.1	75.3
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

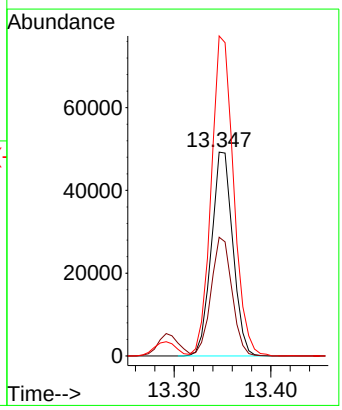
Manual Integrations
APPROVED
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

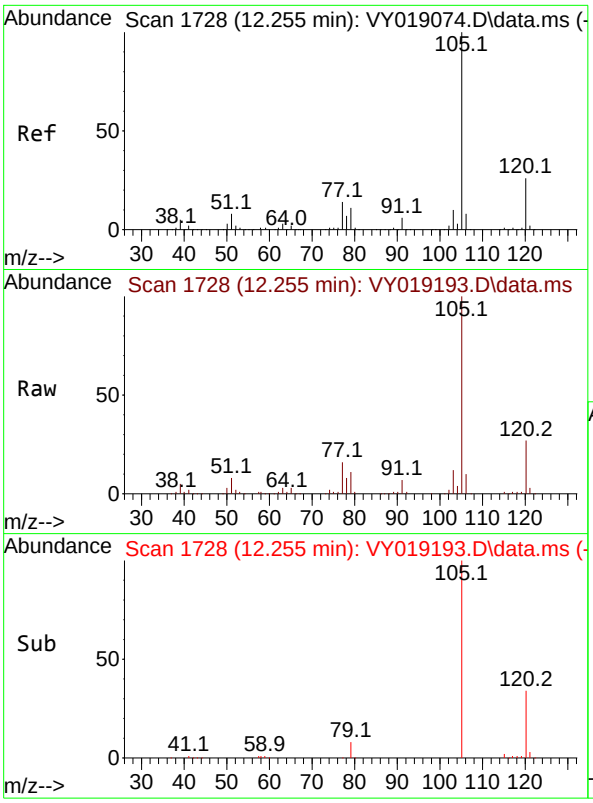


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:152 Resp: 75884

Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.2	84.7
150	163.3	0.0	345.6

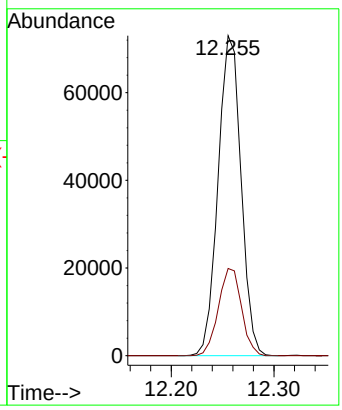




#73
Isopropylbenzene
Concen: 19.440 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:105 Resp: 11306

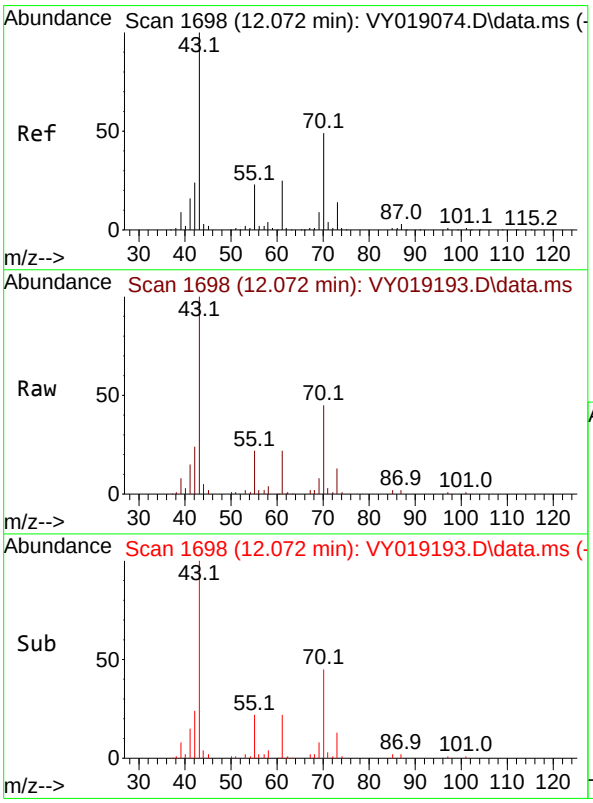
Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

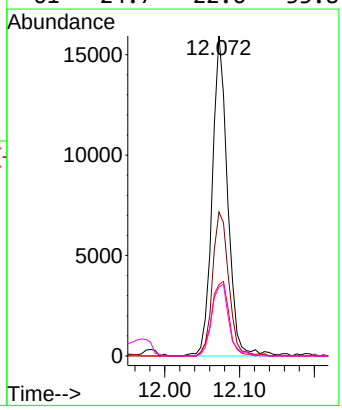
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

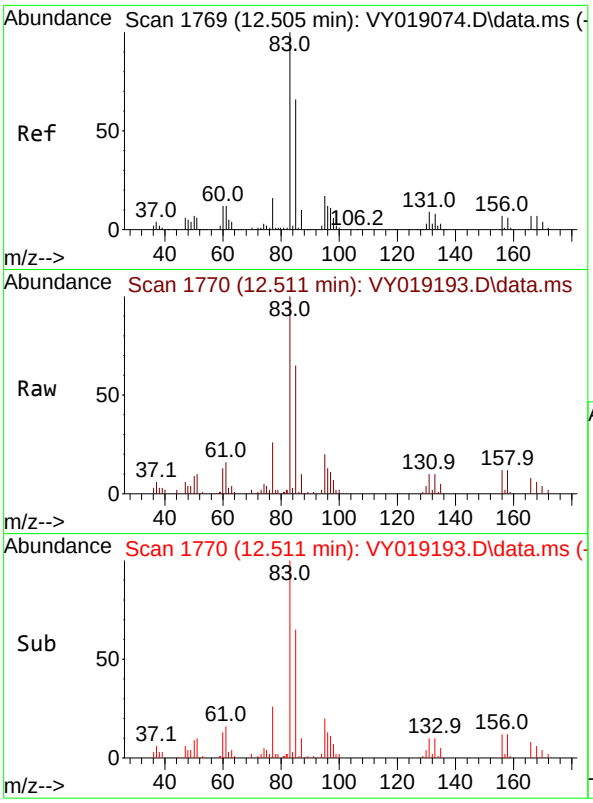


#74
N-amyl acetate
Concen: 18.001 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 43 Resp: 22830

Ion	Ratio	Lower	Upper
43	100		
70	47.3	41.4	62.2
55	26.2	23.3	34.9
61	24.7	22.6	33.8

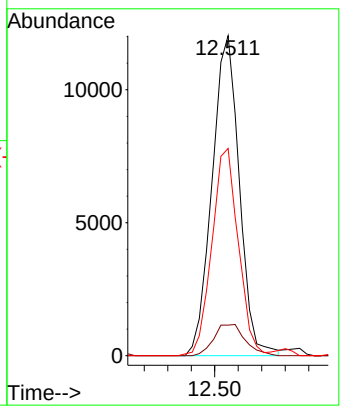




#75
1,1,2,2-Tetrachloroethane
Concen: 18.720 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 83 Resp: 1938

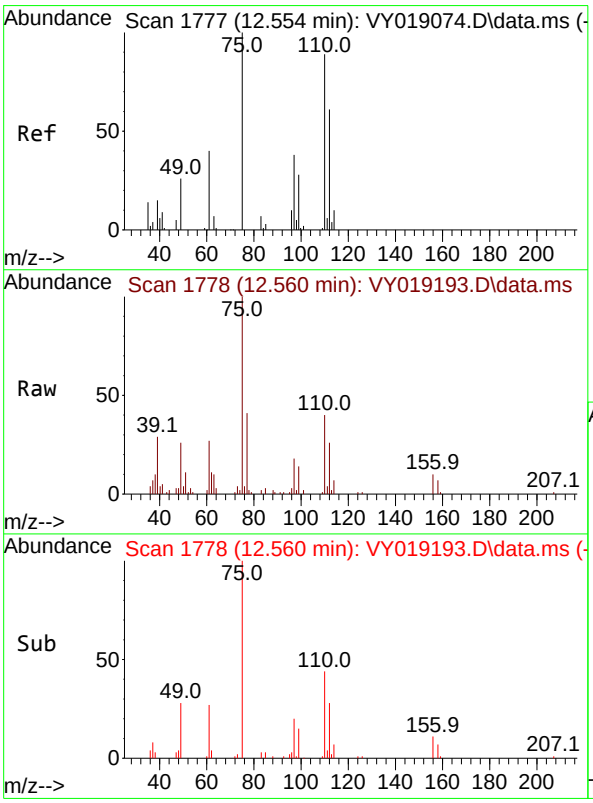
Ion	Ratio	Lower	Upper
83	100		
131	11.2	5.0	14.9
85	63.0	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

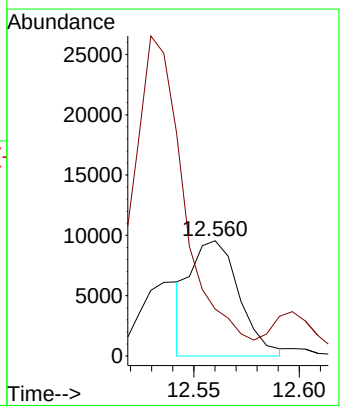
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

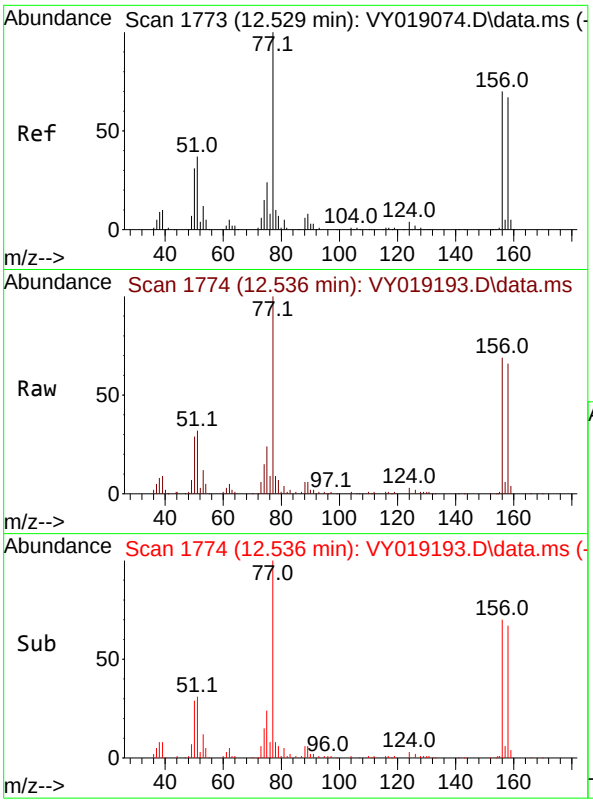


#76
1,2,3-Trichloropropane
Concen: 20.433 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 75 Resp: 15291

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

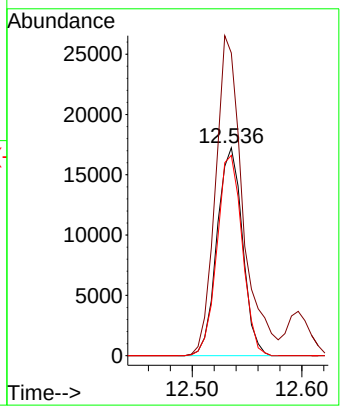




#77
Bromobenzene
Concen: 19.880 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:156 Resp: 2776

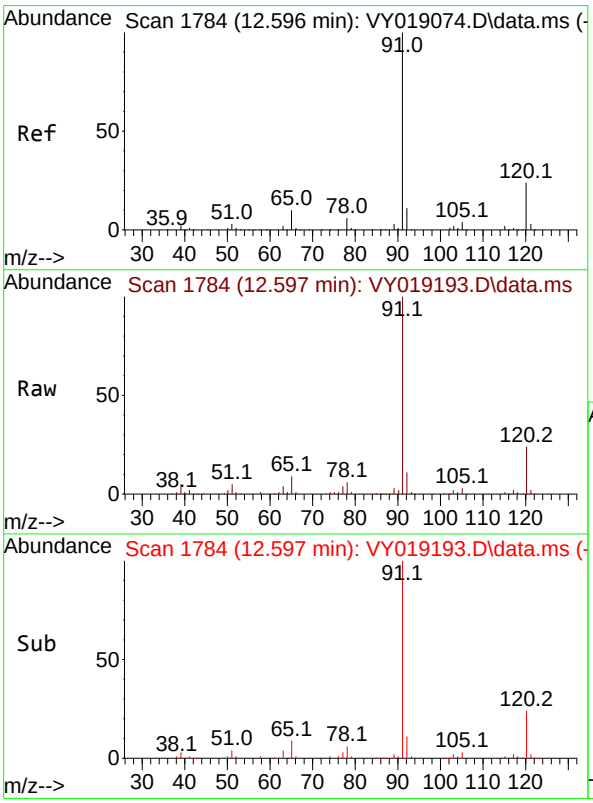
Ion	Ratio	Lower	Upper
156	100		
77	165.1	87.1	261.3
158	95.7	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

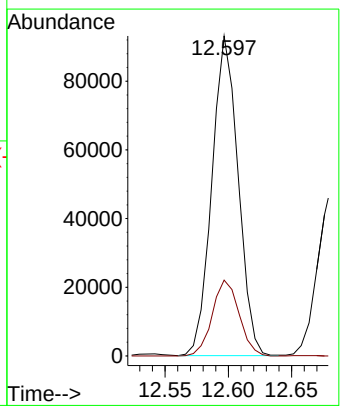
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

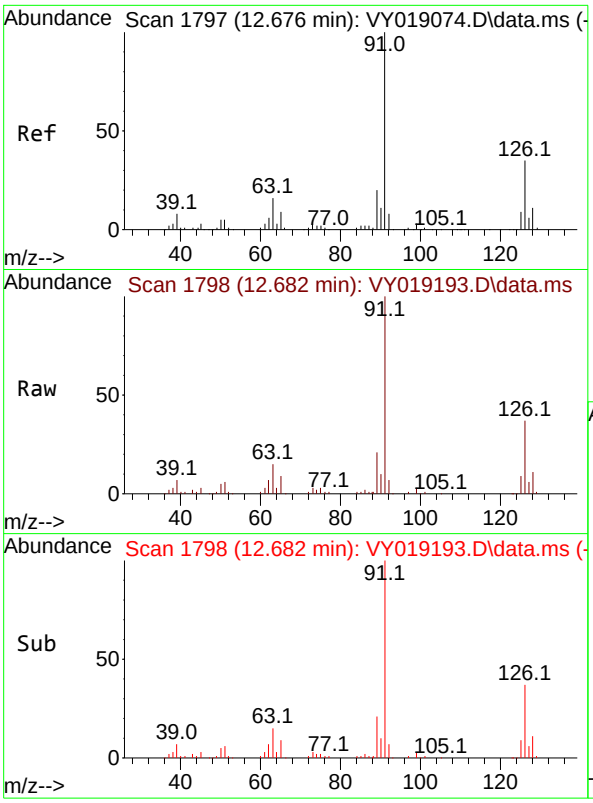


#78
n-propylbenzene
Concen: 19.331 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 91 Resp: 134407

Ion	Ratio	Lower	Upper
91	100		
120	24.2	11.5	34.4

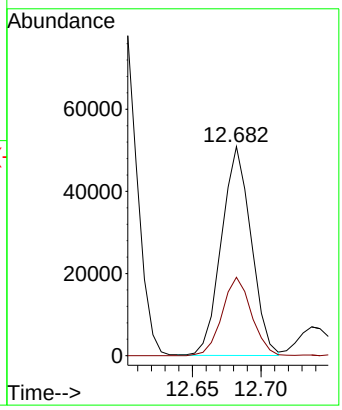




#79
2-Chlorotoluene
Concen: 19.670 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 91 Resp: 7667

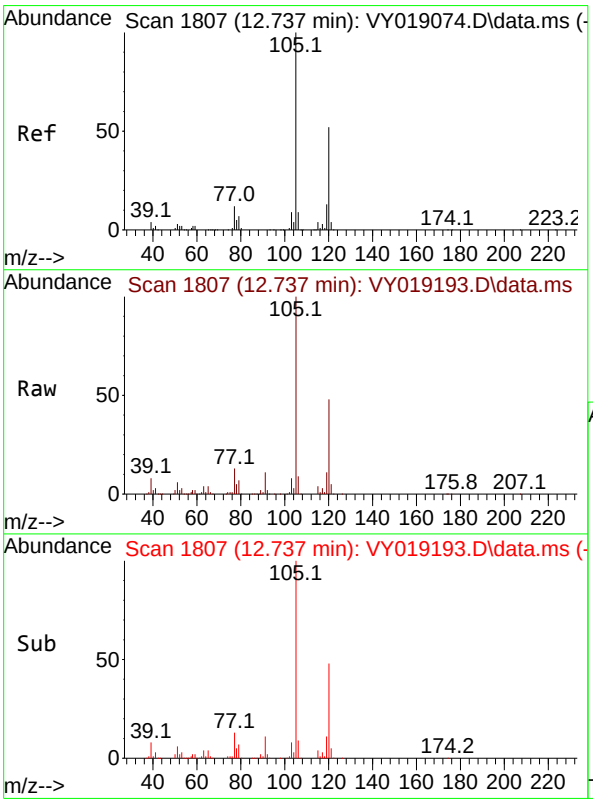
Ion	Ratio	Lower	Upper
91	100		
126	37.0	17.8	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

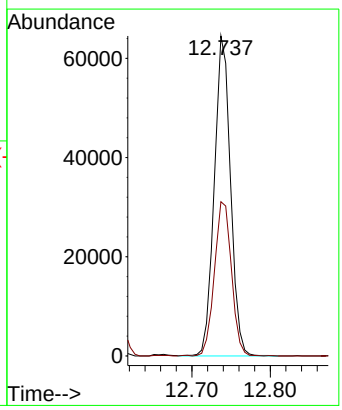
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

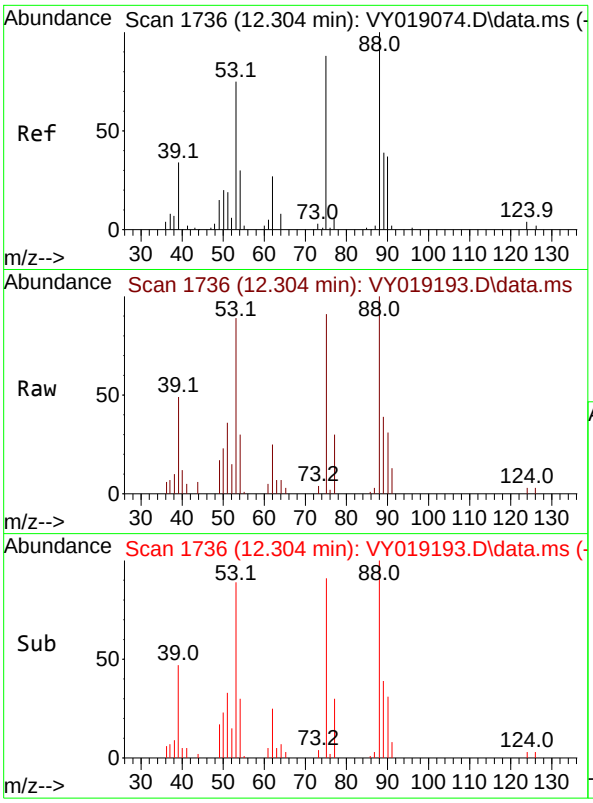


#80
1,3,5-Trimethylbenzene
Concen: 19.637 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:105 Resp: 93041

Ion	Ratio	Lower	Upper
105	100		
120	50.7	25.1	75.2

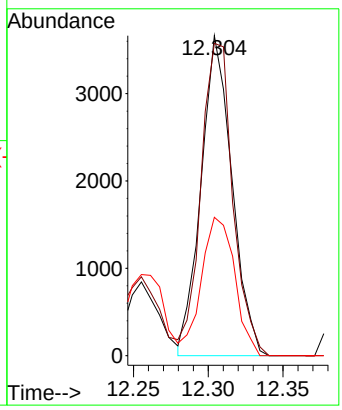




#81
trans-1,4-Dichloro-2-butene
Concen: 17.411 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 75 Resp: 527

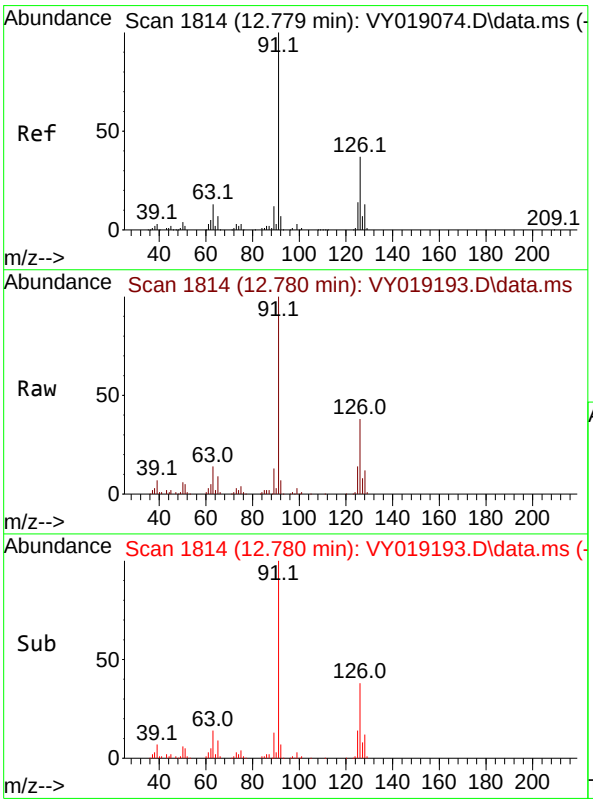
Ion	Ratio	Lower	Upper
75	100		
53	100.2	66.8	100.2#
89	46.4	35.8	53.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

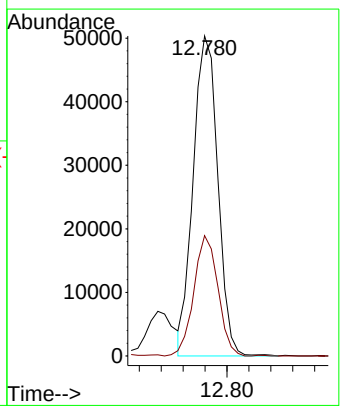
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

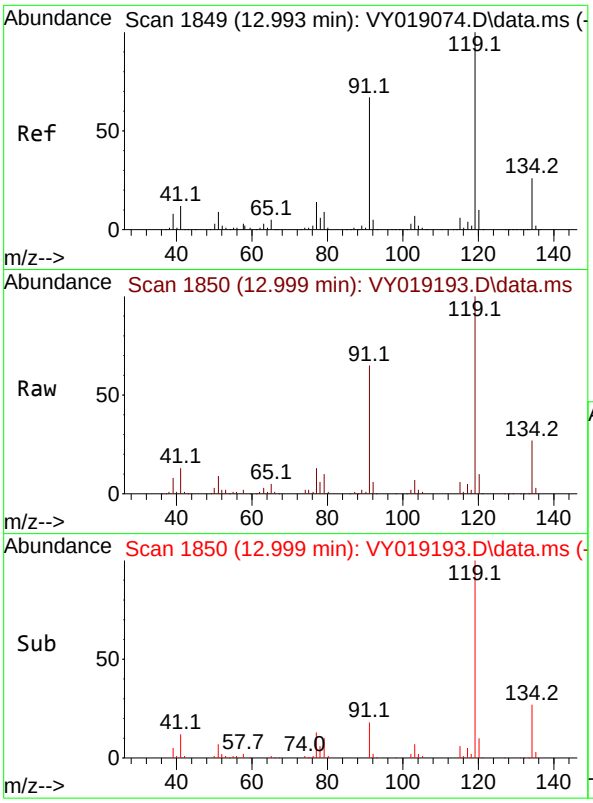


#82
4-Chlorotoluene
Concen: 19.330 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 91 Resp: 78394

Ion	Ratio	Lower	Upper
91	100		
126	36.9	17.6	52.9

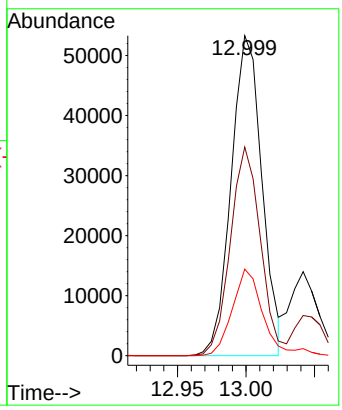




#83
tert-Butylbenzene
Concen: 19.079 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:119 Resp: 8348

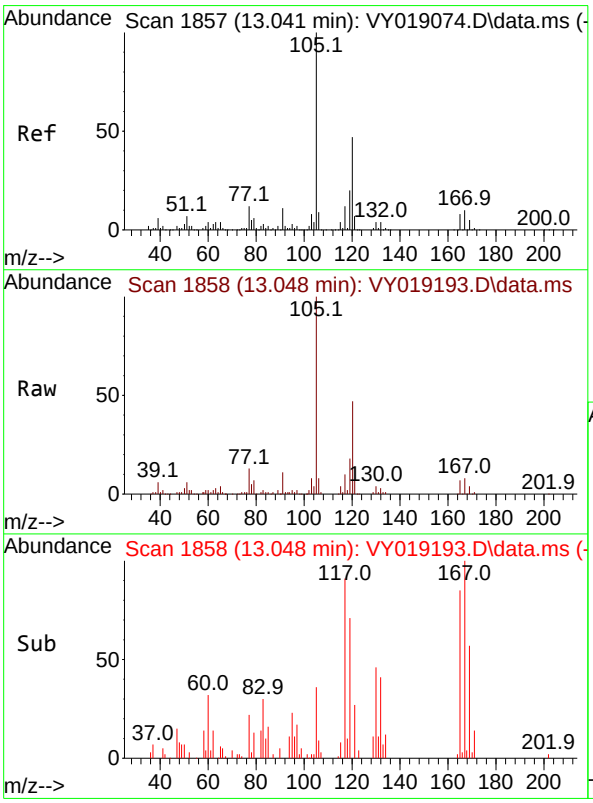
Ion	Ratio	Lower	Upper
119	100		
91	64.0	31.3	93.8
134	27.2	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

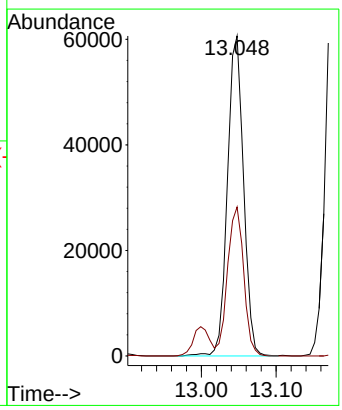
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

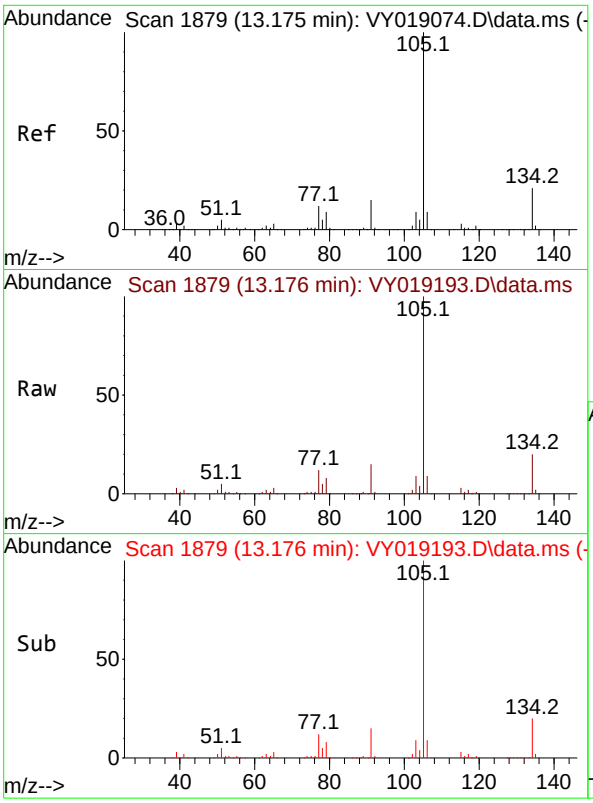


#84
1,2,4-Trimethylbenzene
Concen: 19.198 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:105 Resp: 90658

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.2	69.6

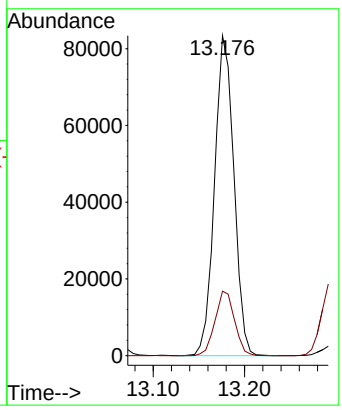




#85
sec-Butylbenzene
Concen: 19.236 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:105 Resp: 12265

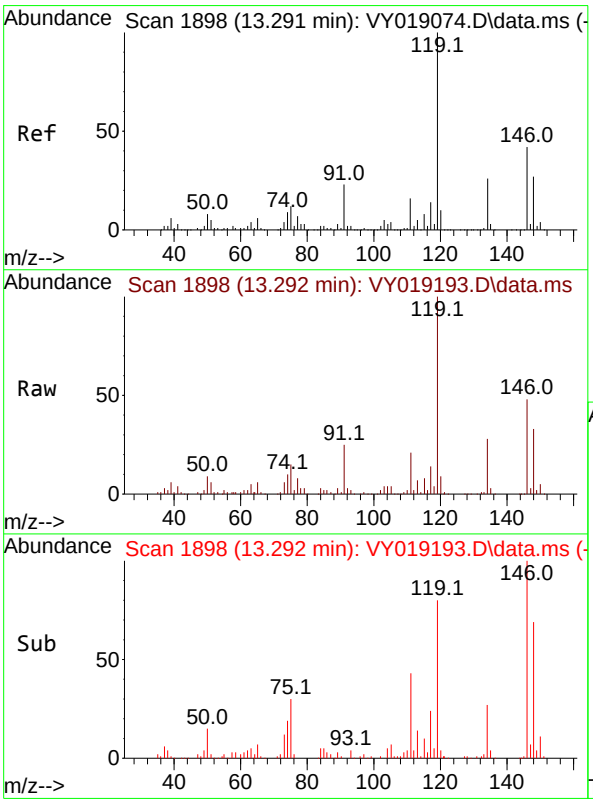
Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

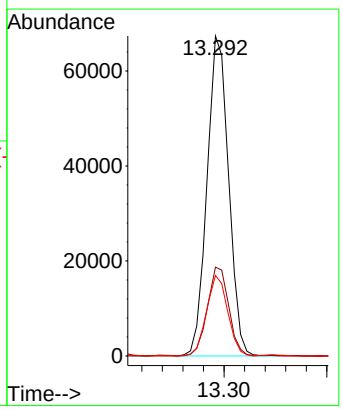
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

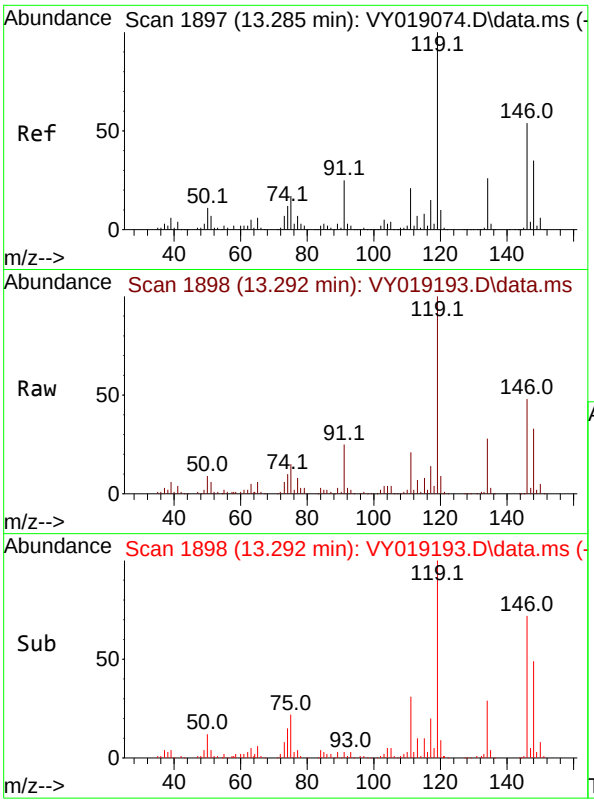


#86
p-Isopropyltoluene
Concen: 18.748 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:119 Resp: 98194

Ion	Ratio	Lower	Upper
119	100		
134	27.5	13.1	39.3
91	24.8	10.7	32.1

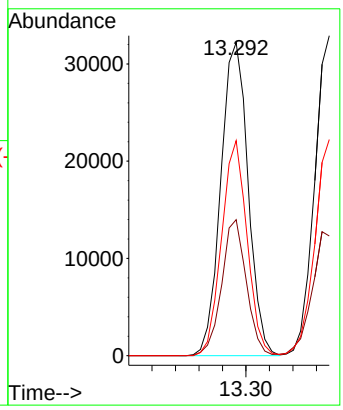




#87
1,3-Dichlorobenzene
Concen: 18.870 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:146 Resp: 5197

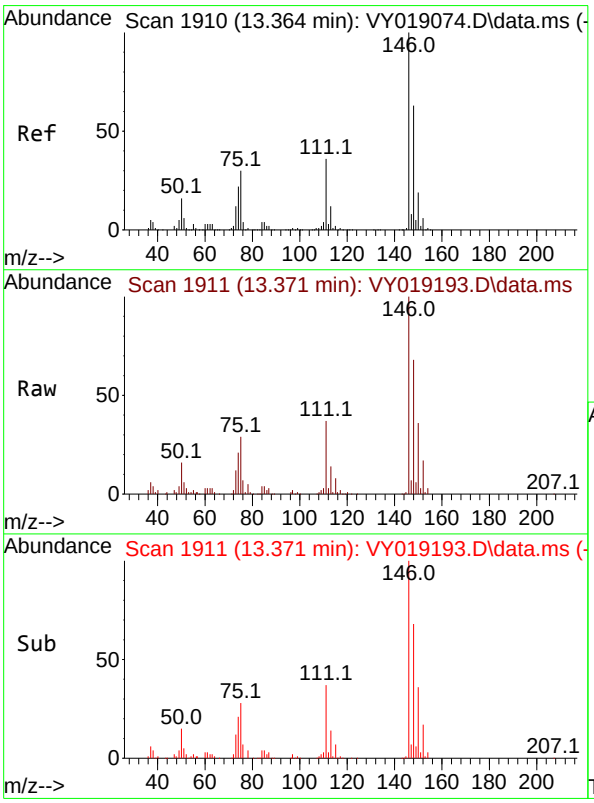
Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.0	57.0
148	64.0	31.7	95.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

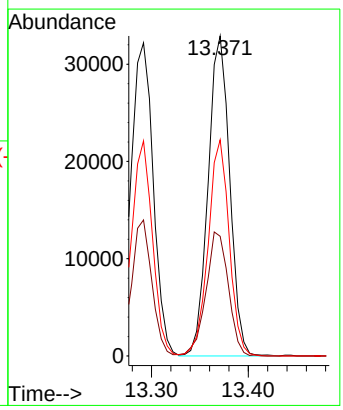
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

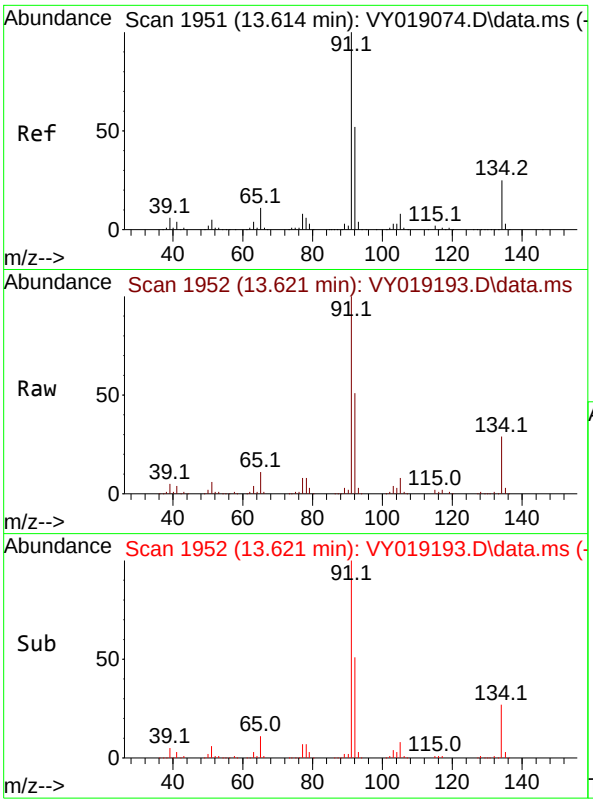


#88
1,4-Dichlorobenzene
Concen: 18.621 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:146 Resp: 50990

Ion	Ratio	Lower	Upper
146	100		
111	40.4	18.4	55.4
148	65.7	32.4	97.2

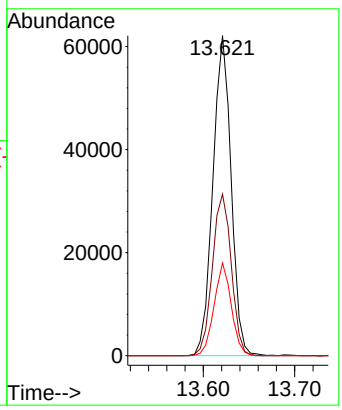




#89
n-Butylbenzene
Concen: 18.022 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 91 Resp: 8605

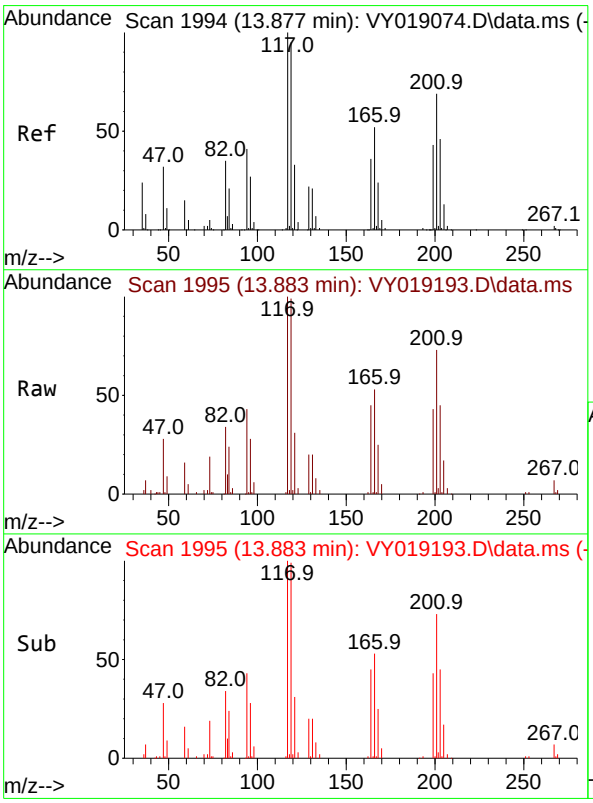
Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.6	79.7
134	27.3	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

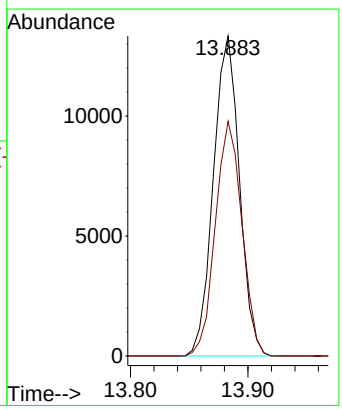
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

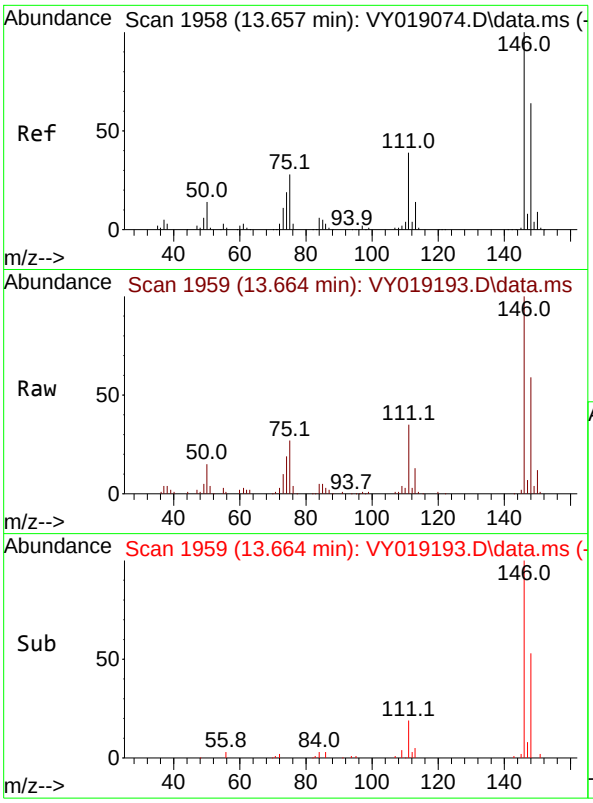


#90
Hexachloroethane
Concen: 19.924 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:117 Resp: 20568

Ion	Ratio	Lower	Upper
117	100		
201	74.8	37.4	112.2

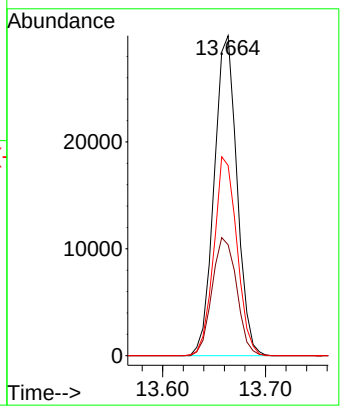




#91
1,2-Dichlorobenzene
Concen: 19.022 ug/l
RT: 13.664 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:146 Resp: 4608

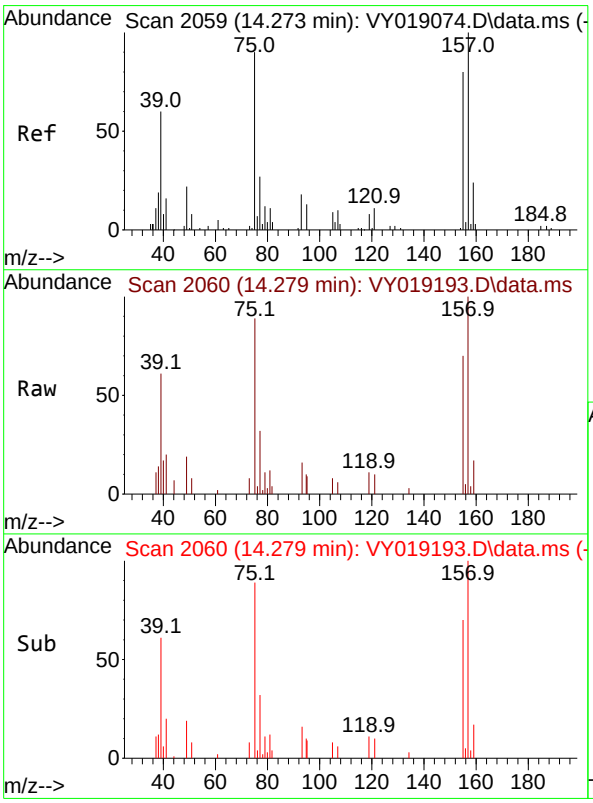
Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.9	59.7
148	62.9	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

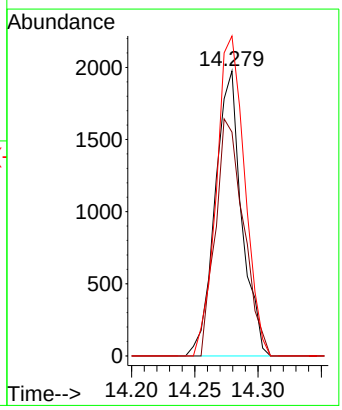
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

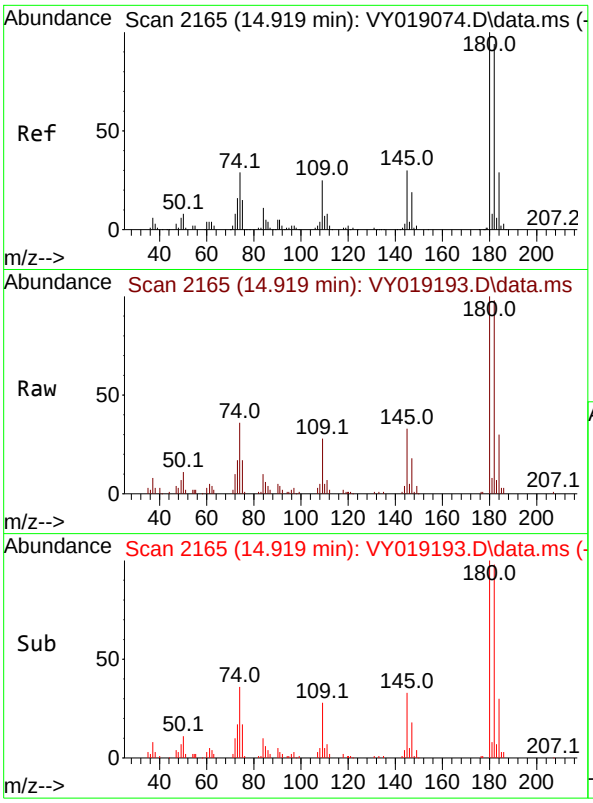


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.894 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion: 75 Resp: 2878

Ion	Ratio	Lower	Upper
75	100		
155	88.1	48.6	145.8
157	119.9	62.7	188.2

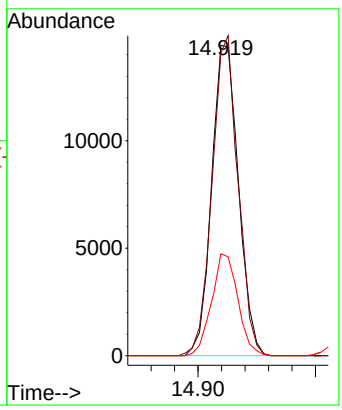




#93
1,2,4-Trichlorobenzene
Concen: 16.774 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:180 Resp: 2291

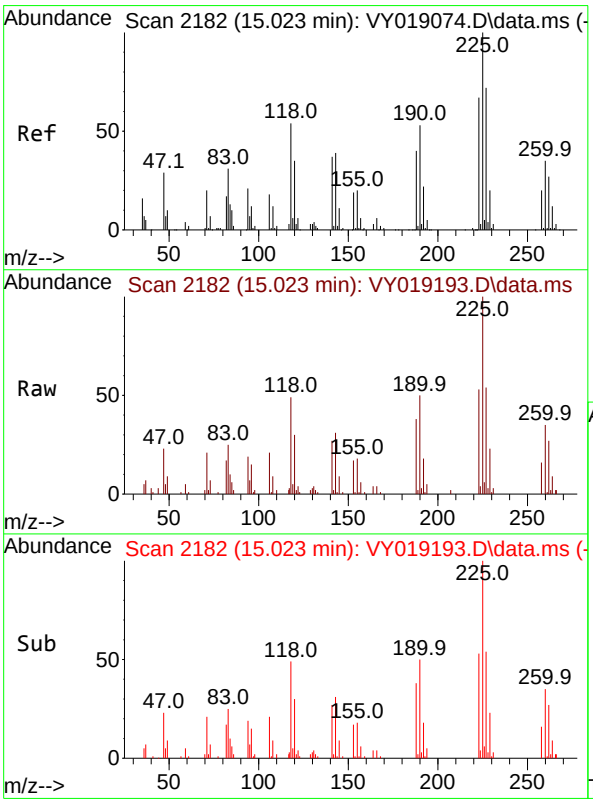
Ion	Ratio	Lower	Upper
180	100		
182	99.0	47.9	143.8
145	32.1	14.2	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

Manual Integrations
APPROVED

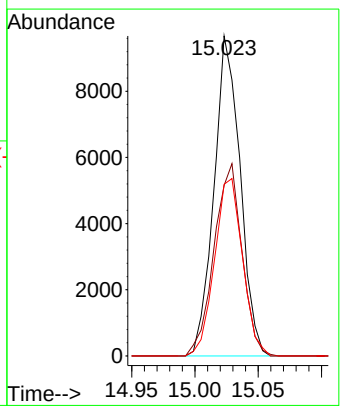
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

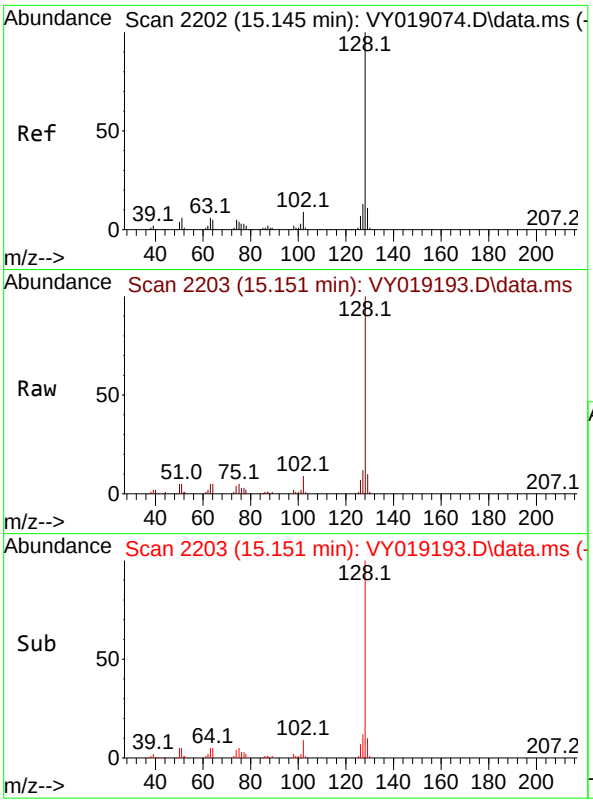


#94
Hexachlorobutadiene
Concen: 19.497 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:225 Resp: 13875

Ion	Ratio	Lower	Upper
225	100		
223	64.2	30.4	91.2
227	59.5	31.9	95.9

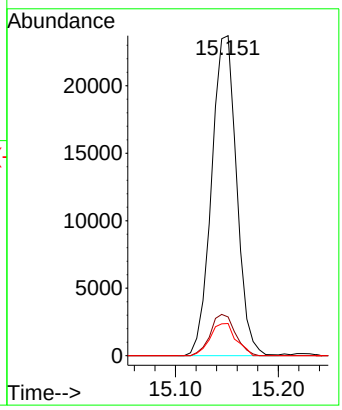




#95
Naphthalene
Concen: 16.421 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

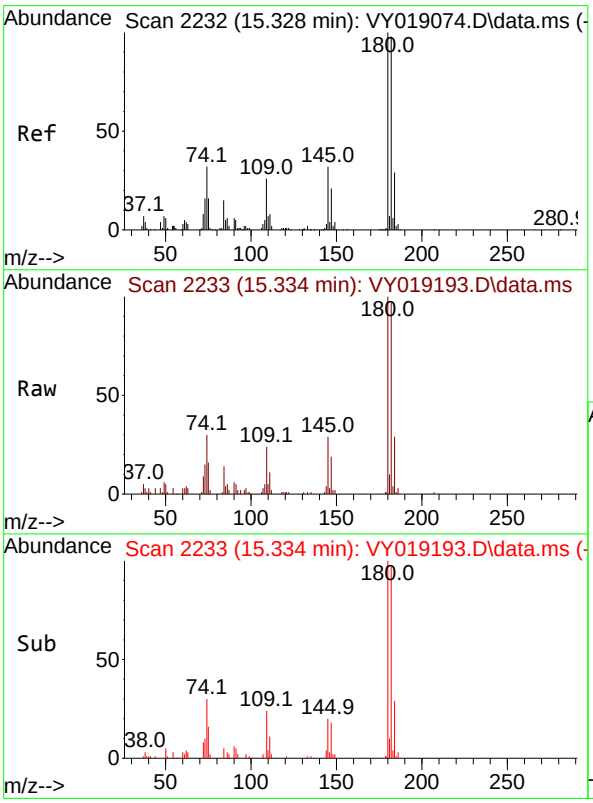
Tgt Ion:128 Resp: 4004

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.4	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBS02

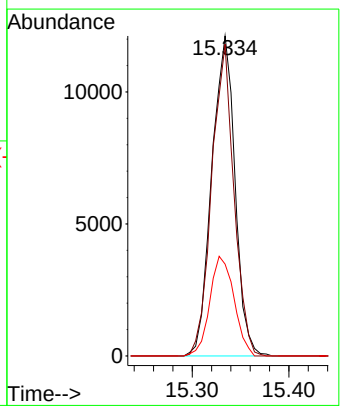
Manual Integrations
APPROVED
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024



#96
1,2,3-Trichlorobenzene
Concen: 17.526 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY019193.D
Acq: 22 Aug 2024 02:34

Tgt Ion:180 Resp: 20196

Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.6	142.9
145	32.5	15.4	46.1



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:	VY0822SBS01	SDG No.:	P3671
Lab Sample ID:	VY0822SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019213.D	1		08/22/24 12:15	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.1		1.70	5.00	ug/Kg
74-87-3	Chloromethane	17.6		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.2		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	18.1		1.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.1		0.78	5.00	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.4		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.8		0.67	5.00	ug/Kg
75-09-2	Methylene Chloride	16.7		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.4		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.6		0.69	5.00	ug/Kg
78-93-3	2-Butanone	98.8		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.4		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.8		0.61	5.00	ug/Kg
67-66-3	Chloroform	20.4		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.4		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.8		0.87	5.00	ug/Kg
71-43-2	Benzene	19.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	18.9		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.2		0.75	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.4		0.56	5.00	ug/Kg
108-88-3	Toluene	20.3		0.67	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.4		0.84	5.00	ug/Kg
124-48-1	Dibromochloromethane	20.0		0.65	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.3		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.8		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.5		0.62	5.00	ug/Kg

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:	VY0822SBS01	SDG No.:	P3671
Lab Sample ID:	VY0822SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019213.D	1		08/22/24 12:15	VY082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	38.8		1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	58.3		2.10	15.0	ug/Kg
95-47-6	o-Xylene	19.5		0.70	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.4		0.67	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.2		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.8		0.59	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		70 (50) - 130 (163)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	52.5		70 (58) - 130 (134)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.8		70 (29) - 130 (146)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	109000	7.701			
540-36-3	1,4-Difluorobenzene	175000	8.609			
3114-55-4	Chlorobenzene-d5	154000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	76200	13.346			

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_Y\Data\VY082224\
Data File : VY019213.D
Acq On : 22 Aug 2024 12:15
Operator : SY/MD
Sample : VY0822SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 23 01:49:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	109427	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	175354	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	154105	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	76163	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	56666	51.659	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.320%			
35) Dibromofluoromethane	7.628	113	59219	51.649	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.300%			
50) Toluene-d8	10.103	98	216548	52.482	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.960%			
62) 4-Bromofluorobenzene	12.407	95	74237	52.778	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 105.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	16131	20.092	ug/l	98
3) Chloromethane	2.068	50	25534	17.645	ug/l	99
4) Vinyl Chloride	2.202	62	32618	18.248	ug/l	99
5) Bromomethane	2.586	94	26910	21.258	ug/l	95
6) Chloroethane	2.726	64	21972	18.074	ug/l	99
7) Trichlorofluoromethane	3.049	101	48491	17.943	ug/l	95
8) Diethyl Ether	3.452	74	11420	19.577	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.799	101	24182	20.128	ug/l	99
10) Methyl Iodide	3.994	142	20026	17.005	ug/l	93
11) Tert butyl alcohol	4.842	59	14024m	130.171	ug/l	
12) 1,1-Dichloroethene	3.781	96	20896	19.144	ug/l	98
13) Acrolein	3.647	56	7805	81.454	ug/l	96
14) Allyl chloride	4.372	41	27512	18.958	ug/l	92
15) Acrylonitrile	5.043	53	24732	103.619	ug/l	96
16) Acetone	3.860	43	21066	103.556	ug/l	98
17) Carbon Disulfide	4.098	76	56650	18.400	ug/l	100
18) Methyl Acetate	4.366	43	12398	19.858	ug/l	94
19) Methyl tert-butyl Ether	5.104	73	52490	19.835	ug/l	98
20) Methylene Chloride	4.604	84	29715	16.712	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	24295	19.922	ug/l	92
22) Diisopropyl ether	6.006	45	63438	19.095	ug/l #	91
23) Vinyl Acetate	5.951	43	254248	96.662	ug/l	99
24) 1,1-Dichloroethane	5.902	63	39451	19.417	ug/l	98
25) 2-Butanone	6.884	43	32364	98.787	ug/l #	87
26) 2,2-Dichloropropane	6.872	77	34067	20.706	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	28365	19.765	ug/l	98
28) Bromochloromethane	7.232	49	16331	19.162	ug/l	95
29) Tetrahydrofuran	7.250	42	20103	95.457	ug/l	93
30) Chloroform	7.408	83	46225	20.418	ug/l	98
31) Cyclohexane	7.695	56	33356	18.568	ug/l	87
32) 1,1,1-Trichloroethane	7.609	97	40669	20.441	ug/l	99
36) 1,1-Dichloropropene	7.823	75	30825	19.578	ug/l	99
37) Ethyl Acetate	6.969	43	14492	20.775	ug/l	98
38) Carbon Tetrachloride	7.811	117	37176	20.375	ug/l	97
39) Methylcyclohexane	9.103	83	38080	18.847	ug/l	92
40) Benzene	8.073	78	96181	19.918	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019213.D
Acq On : 22 Aug 2024 12:15
Operator : SY/MD
Sample : VY0822SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 23 01:49:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.207	41	7469m	19.617	ug/l		
42) 1,2-Dichloroethane	8.152	62	24657	18.909	ug/l		98
43) Isopropyl Acetate	8.189	43	27124	19.227	ug/l	#	83
44) Trichloroethene	8.859	130	27173	20.168	ug/l		95
45) 1,2-Dichloropropane	9.134	63	21643	20.117	ug/l		98
46) Dibromomethane	9.225	93	14356	20.573	ug/l		97
47) Bromodichloromethane	9.420	83	34873	20.370	ug/l		99
48) Methyl methacrylate	9.219	41	11777	18.732	ug/l	#	91
49) 1,4-Dioxane	9.219	88	3436	406.491	ug/l	#	90
51) 4-Methyl-2-Pentanone	9.999	43	72771	97.189	ug/l		93
52) Toluene	10.170	92	64289	20.282	ug/l		98
53) t-1,3-Dichloropropene	10.389	75	28939	20.378	ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	34589	20.252	ug/l		93
55) 1,1,2-Trichloroethane	10.572	97	19244	21.423	ug/l		98
56) Ethyl methacrylate	10.438	69	22432	19.078	ug/l	#	86
57) 1,3-Dichloropropane	10.719	76	29547	20.177	ug/l		97
58) 2-Chloroethyl Vinyl ether	9.707	63	53309	95.572	ug/l		96
59) 2-Hexanone	10.761	43	51155	99.444	ug/l		92
60) Dibromochloromethane	10.908	129	24500	20.025	ug/l		99
61) 1,2-Dibromoethane	11.011	107	17301	19.927	ug/l		98
64) Tetrachloroethene	10.646	164	27398	20.340	ug/l		95
65) Chlorobenzene	11.444	112	70144	19.767	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	24878	19.936	ug/l		99
67) Ethyl Benzene	11.517	91	120295	19.532	ug/l		97
68) m/p-Xylenes	11.627	106	94748	38.771	ug/l		99
69) o-Xylene	11.956	106	44214	19.537	ug/l		98
70) Styrene	11.968	104	76515	19.827	ug/l		99
71) Bromoform	12.133	173	14136	19.817	ug/l	#	98
73) Isopropylbenzene	12.255	105	113177	19.388	ug/l		100
74) N-amyl acetate	12.072	43	23517	18.475	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.505	83	20245	19.480	ug/l		96
76) 1,2,3-Trichloropropane	12.560	75	15505m	20.643	ug/l		
77) Bromobenzene	12.529	156	27477	19.599	ug/l		97
78) n-propylbenzene	12.596	91	137741	19.738	ug/l		98
79) 2-Chlorotoluene	12.682	91	76468	19.545	ug/l		98
80) 1,3,5-Trimethylbenzene	12.737	105	95309	20.042	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	5628	18.505	ug/l	#	82
82) 4-Chlorotoluene	12.779	91	79304	19.483	ug/l		98
83) tert-Butylbenzene	12.999	119	85373	19.440	ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	92075	19.427	ug/l		99
85) sec-Butylbenzene	13.176	105	126386	19.748	ug/l		98
86) p-Isopropyltoluene	13.291	119	103590	19.706	ug/l		97
87) 1,3-Dichlorobenzene	13.291	146	54891	19.854	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	52739	19.190	ug/l		97
89) n-Butylbenzene	13.621	91	94818	19.784	ug/l		99
90) Hexachloroethane	13.883	117	21094	20.358	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	48031	19.753	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	2832	18.524	ug/l		97
93) 1,2,4-Trichlorobenzene	14.925	180	24692	18.006	ug/l		99
94) Hexachlorobutadiene	15.029	225	14746	20.645	ug/l		97
95) Naphthalene	15.151	128	41854	17.102	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	20882	18.055	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019213.D
Acq On : 22 Aug 2024 12:15
Operator : SY/MD
Sample : VY0822SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 23 01:49:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

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

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

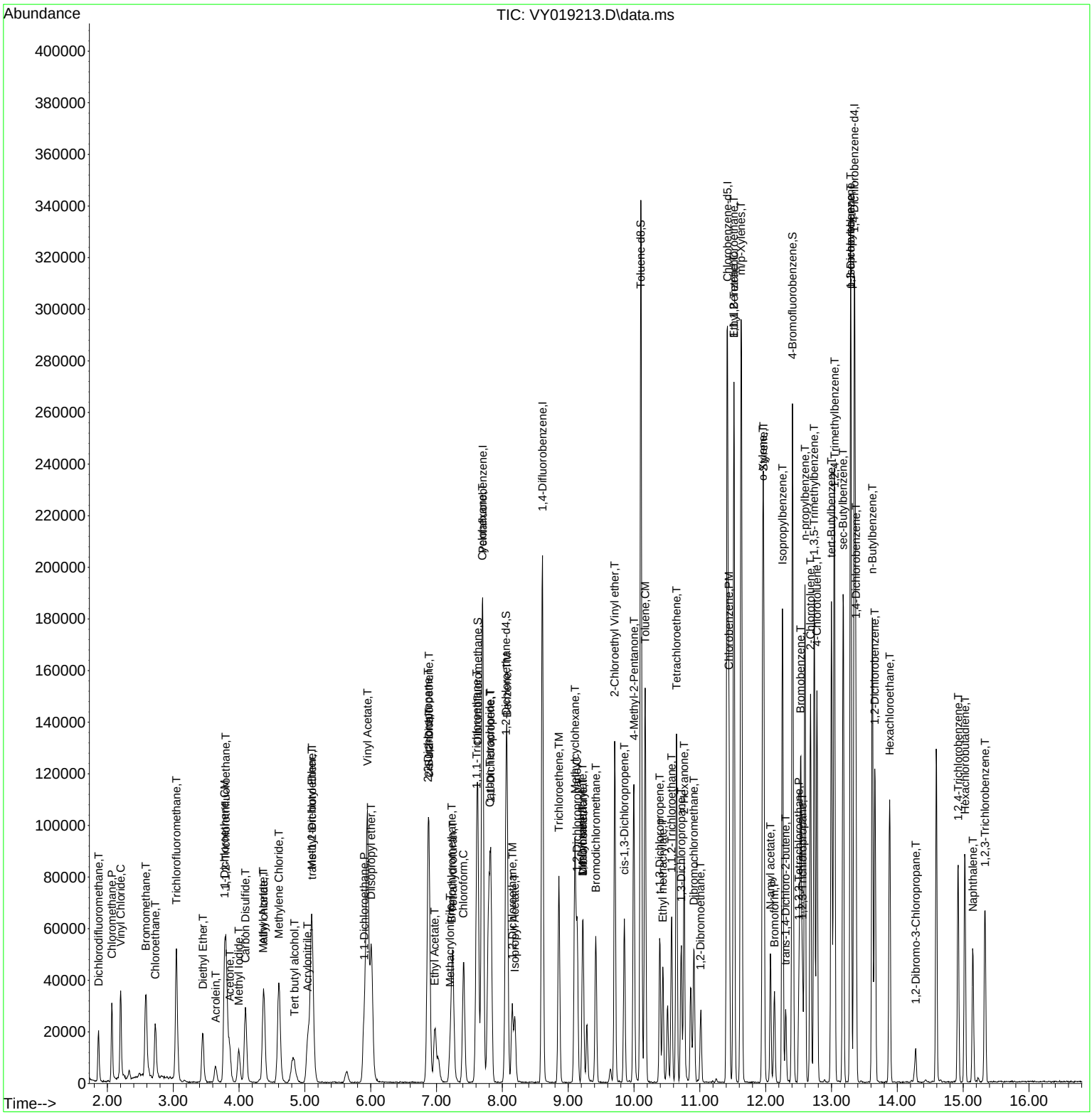
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082224\
Data File : VY019213.D
Acq On : 22 Aug 2024 12:15
Operator : SY/MD
Sample : VY0822SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

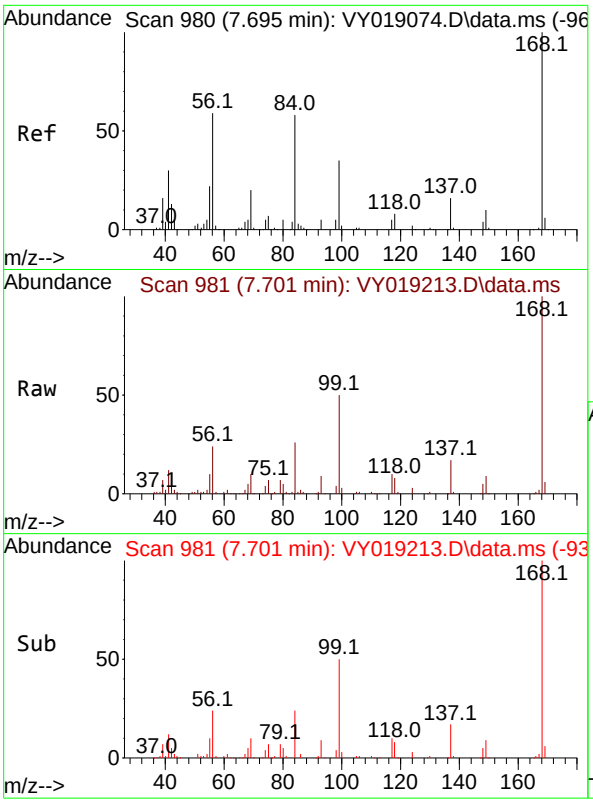
Quant Time: Aug 23 01:49:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

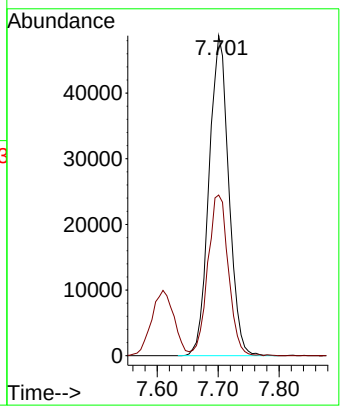




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:168 Resp: 10942

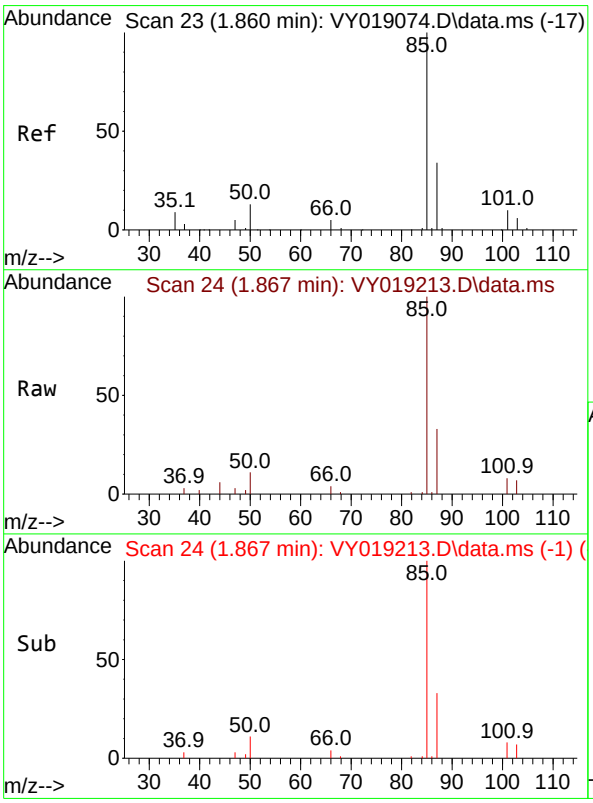
Ion	Ratio	Lower	Upper
168	100		
99	50.2	39.1	58.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

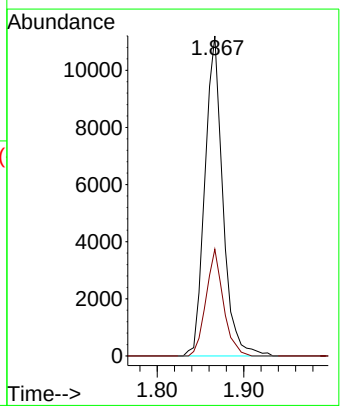
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

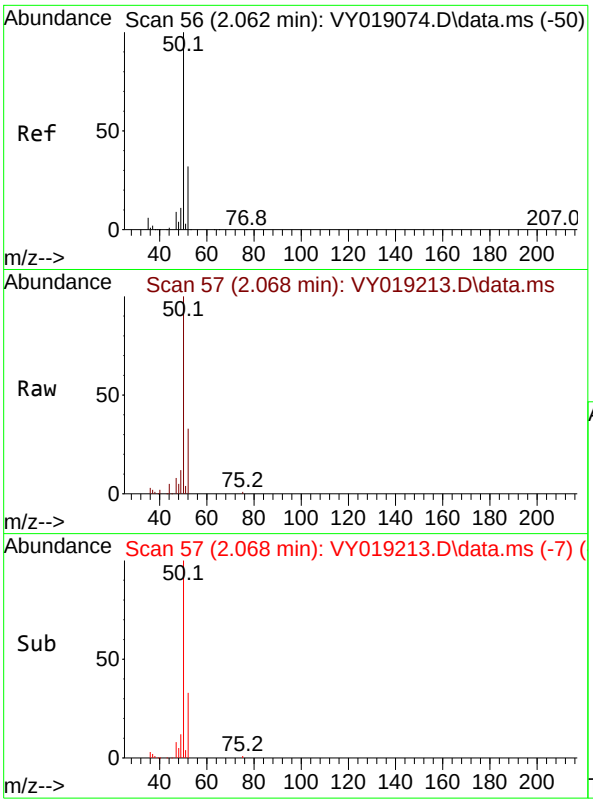


#2
Dichlorodifluoromethane
Concen: 20.092 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 85 Resp: 16131

Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.0	48.0

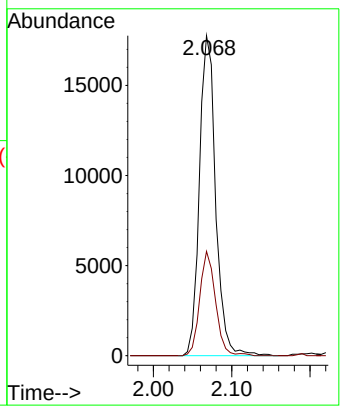




#3
Chloromethane
Concen: 17.645 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 50 Resp: 2553

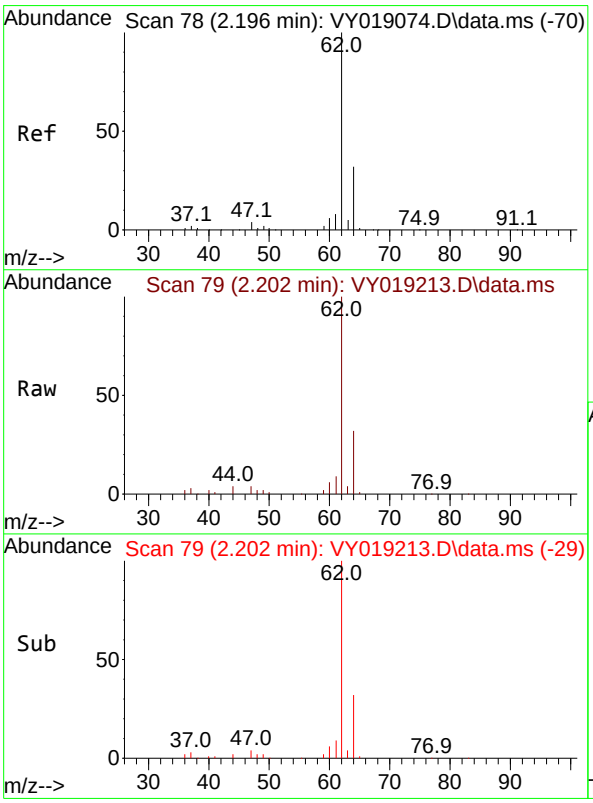
Ion	Ratio	Lower	Upper
50	100		
52	32.6	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

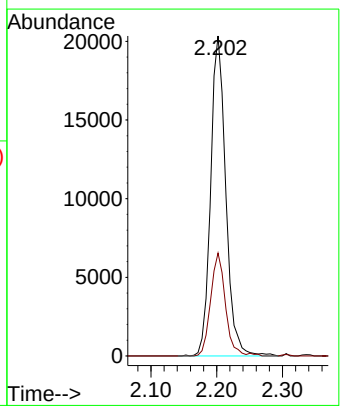
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

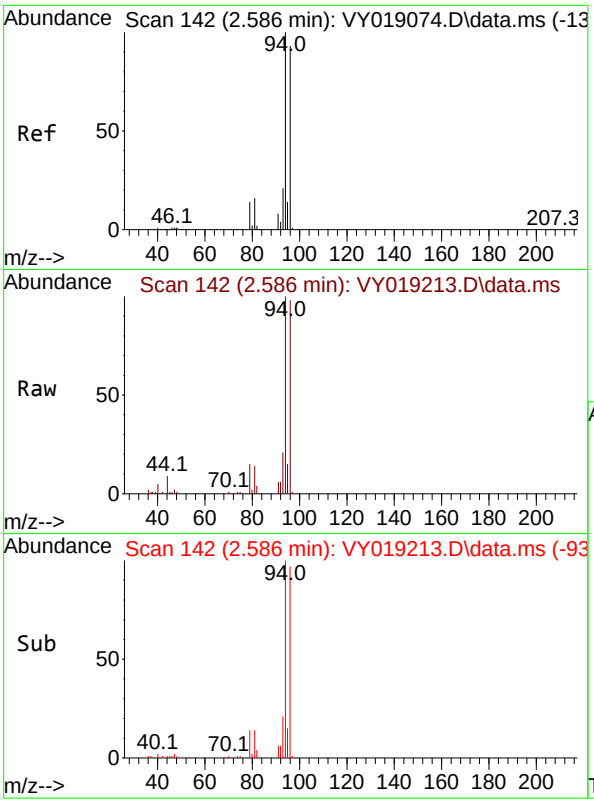


#4
Vinyl Chloride
Concen: 18.248 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 62 Resp: 32618

Ion	Ratio	Lower	Upper
62	100		
64	32.2	26.1	39.1





#5
Bromomethane
Concen: 21.258 ug/l
RT: 2.586 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

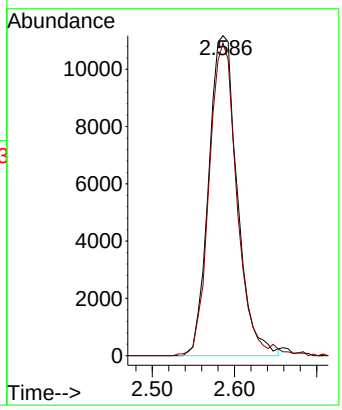
Tgt Ion: 94 Resp: 2691

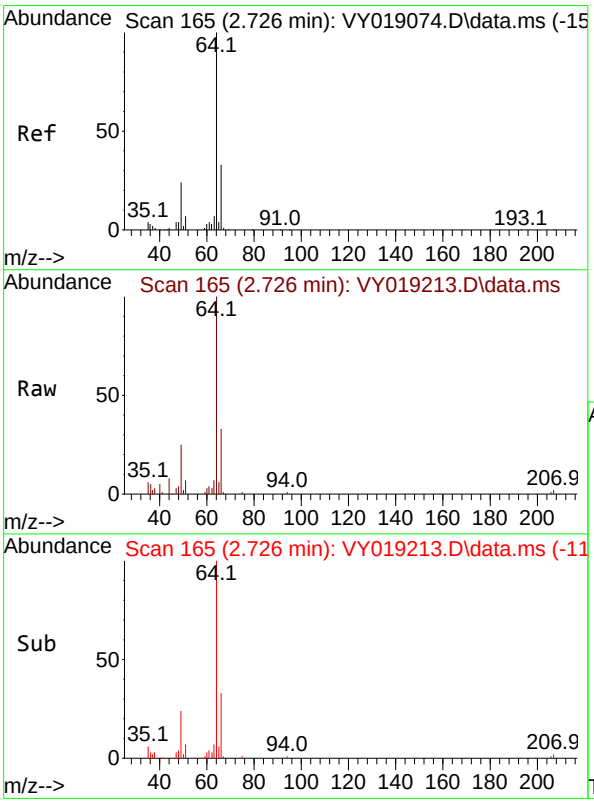
Ion	Ratio	Lower	Upper
94	100		
96	97.2	74.1	111.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

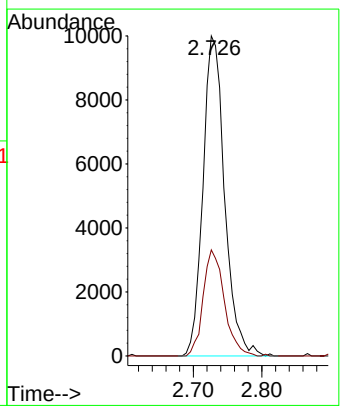


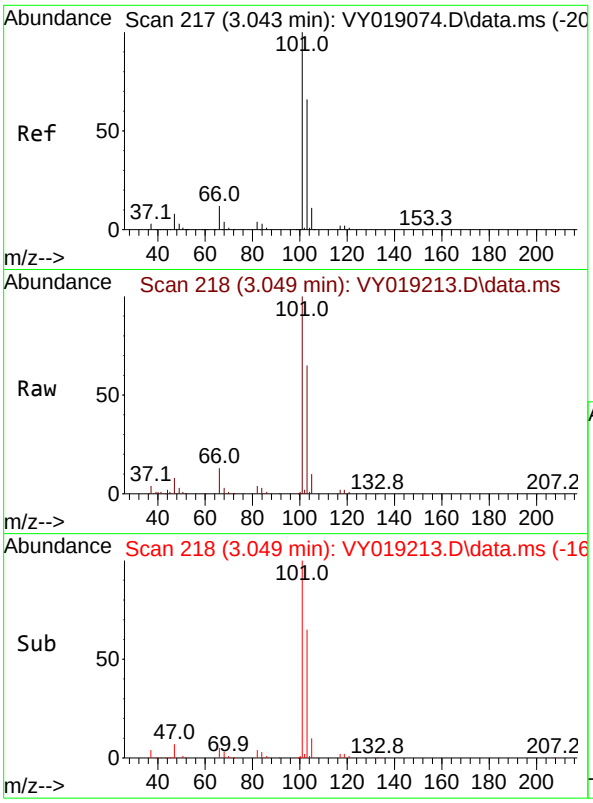


#6
Chloroethane
Concen: 18.074 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 64 Resp: 21972

Ion	Ratio	Lower	Upper
64	100		
66	33.1	26.1	39.1

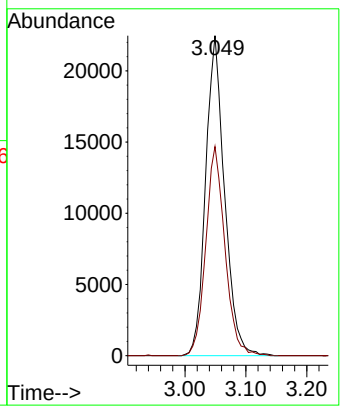




#7
Trichlorofluoromethane
Concen: 17.943 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

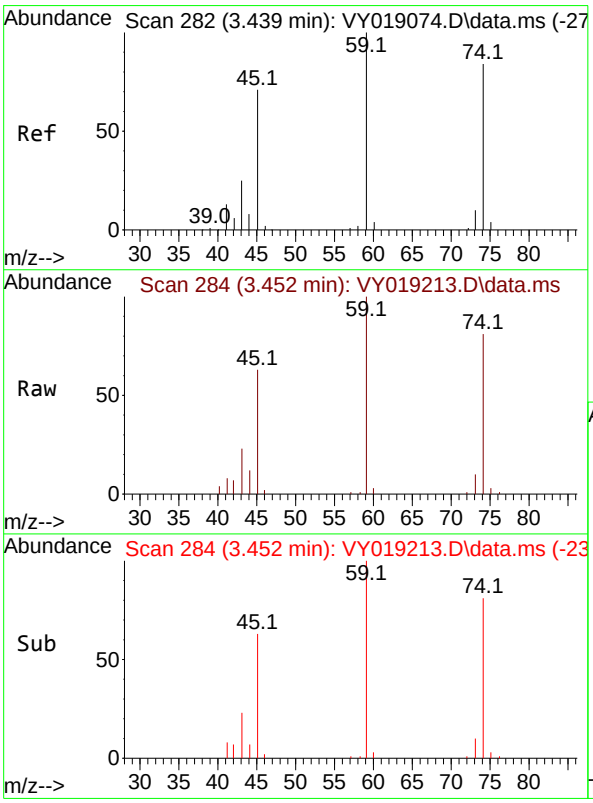
Tgt Ion:101 Resp: 4849

Ion	Ratio	Lower	Upper
101	100		
103	65.3	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

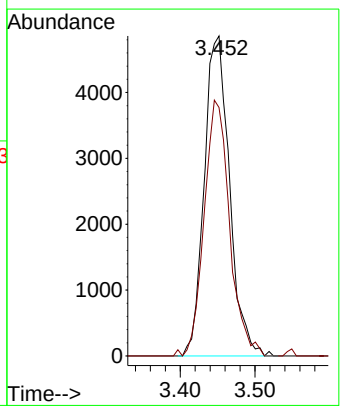
Manual Integrations
APPROVED
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

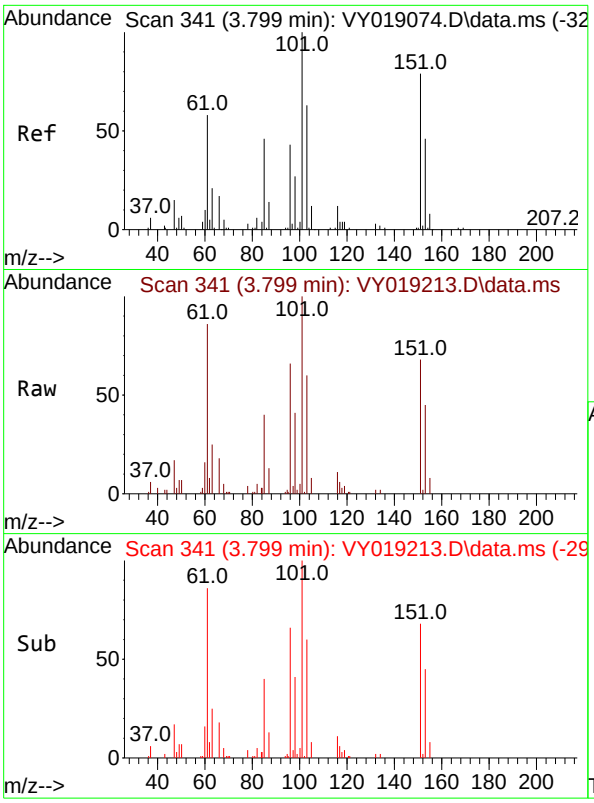


#8
Diethyl Ether
Concen: 19.577 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.012 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 74 Resp: 11420

Ion	Ratio	Lower	Upper
74	100		
45	80.5	41.3	124.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.128 ug/l
RT: 3.799 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

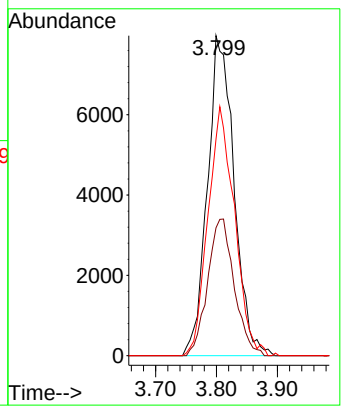
Tgt Ion:101 Resp: 2418

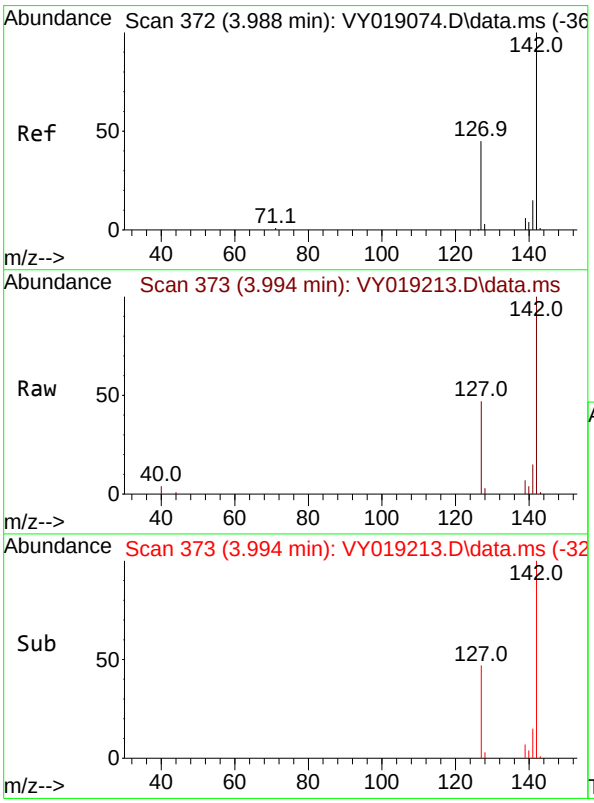
Ion	Ratio	Lower	Upper
101	100		
85	42.7	34.5	51.7
151	77.8	61.7	92.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

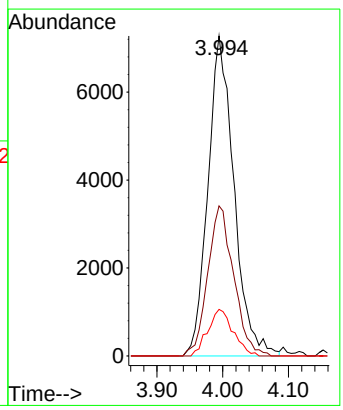


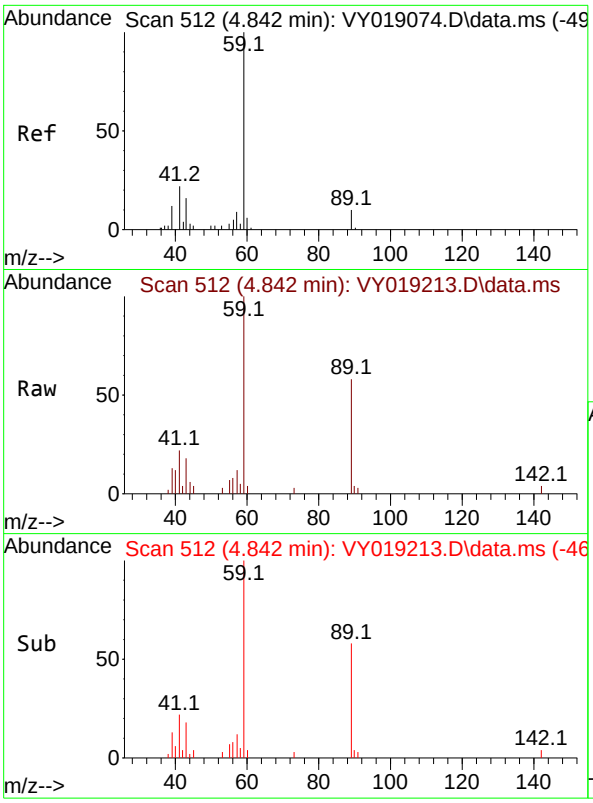


#10
Methyl Iodide
Concen: 17.005 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:142 Resp: 20026

Ion	Ratio	Lower	Upper
142	100		
127	46.8	32.8	49.2
141	14.2	11.4	17.2

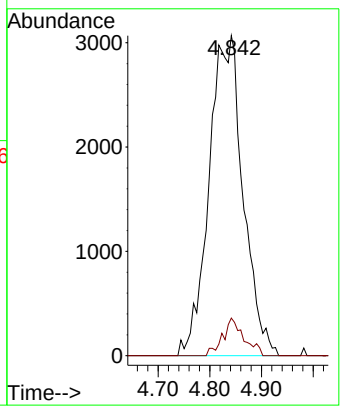




#11
Tert butyl alcohol
Concen: 130.171 ug/l m
RT: 4.842 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 59 Resp: 1402

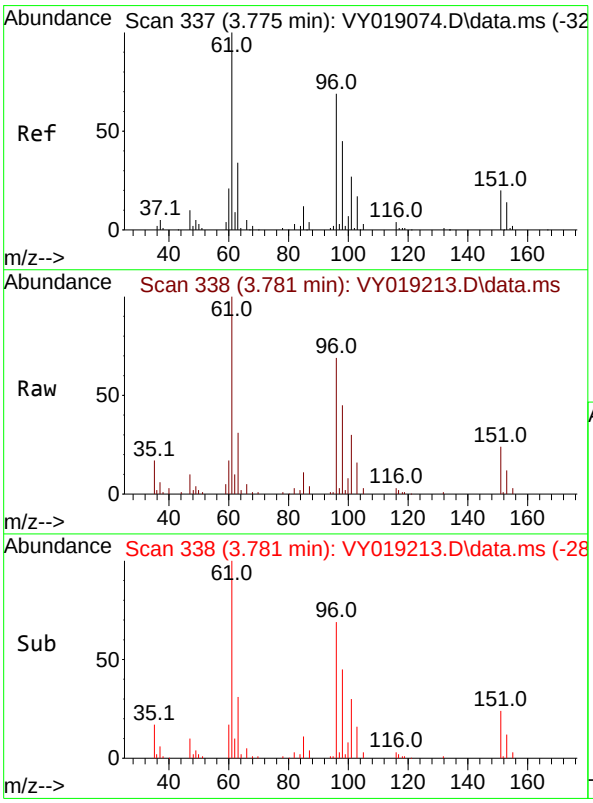
Ion	Ratio	Lower	Upper
59	100		
57	0.0	3.0	4.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

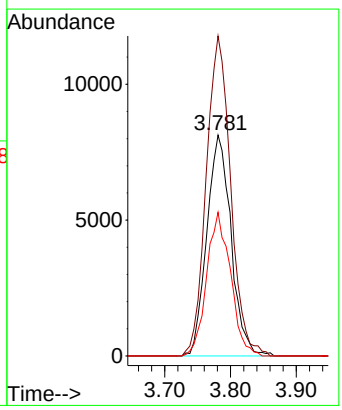
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

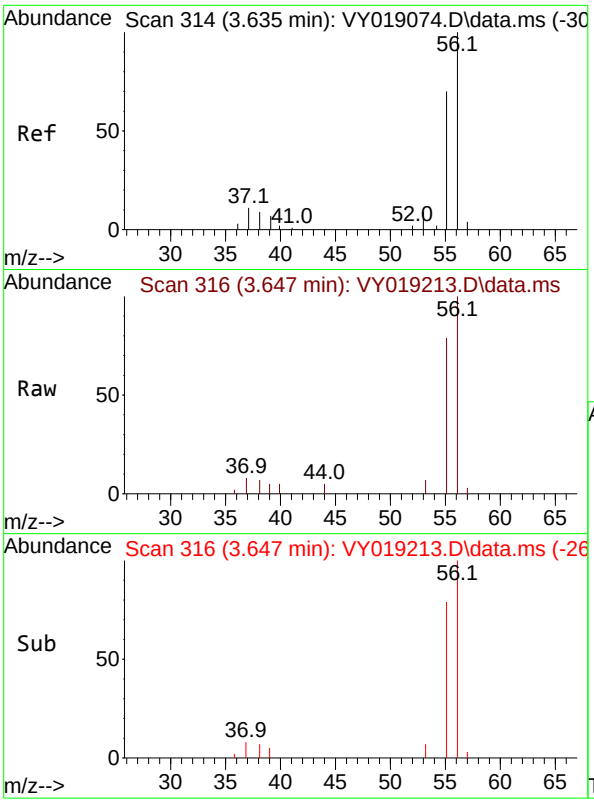


#12
1,1-Dichloroethene
Concen: 19.144 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 96 Resp: 20896

Ion	Ratio	Lower	Upper
96	100		
61	144.9	114.6	171.8
98	65.1	50.8	76.2

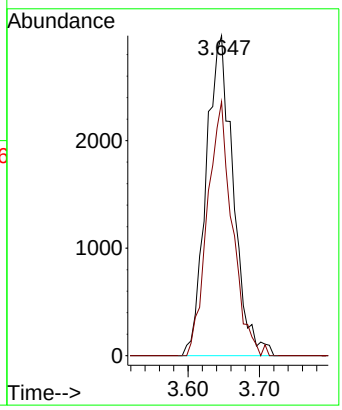




#13
Acrolein
Concen: 81.454 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 56 Resp: 780

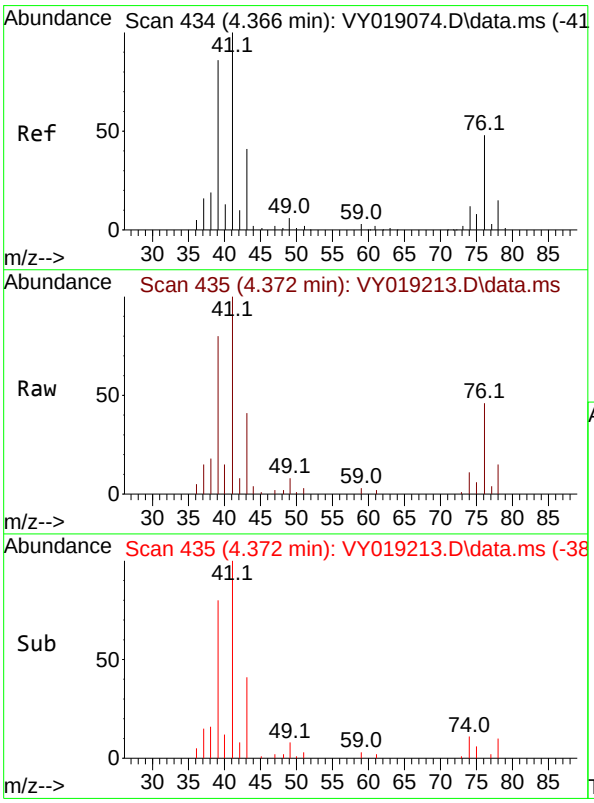
Ion	Ratio	Lower	Upper
56	100		
55	73.1	55.7	83.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

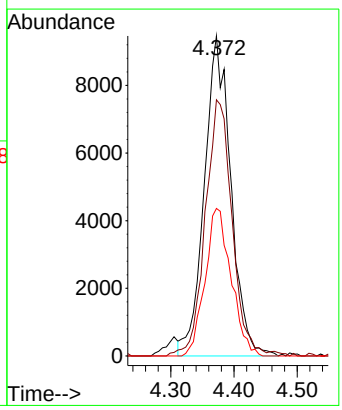
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

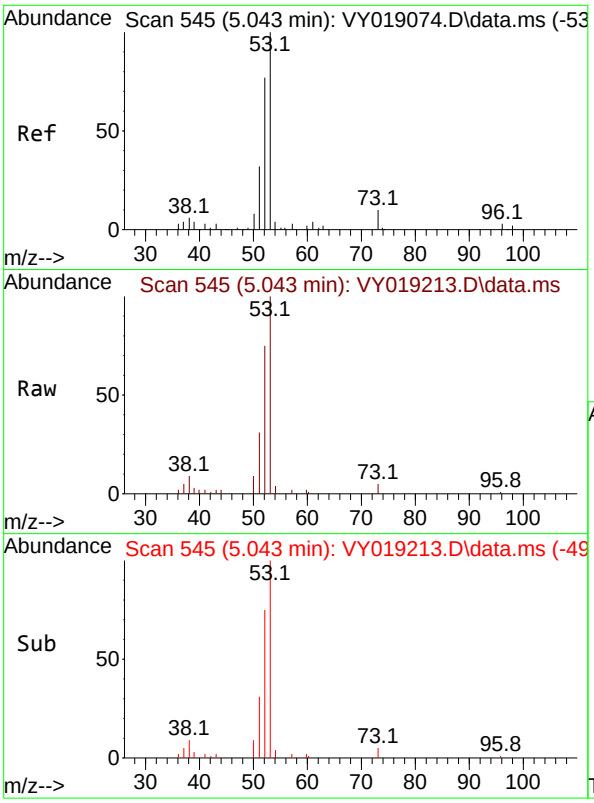


#14
Allyl chloride
Concen: 18.958 ug/l
RT: 4.372 min Scan# 435
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 41 Resp: 27512

Ion	Ratio	Lower	Upper
41	100		
39	80.6	58.3	87.5
76	45.3	39.0	58.6





#15
Acrylonitrile
Concen: 103.619 ug/l
RT: 5.043 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

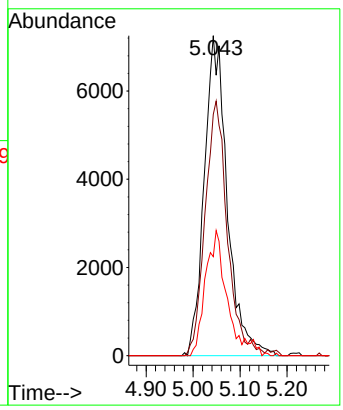
Tgt Ion: 53 Resp: 2473

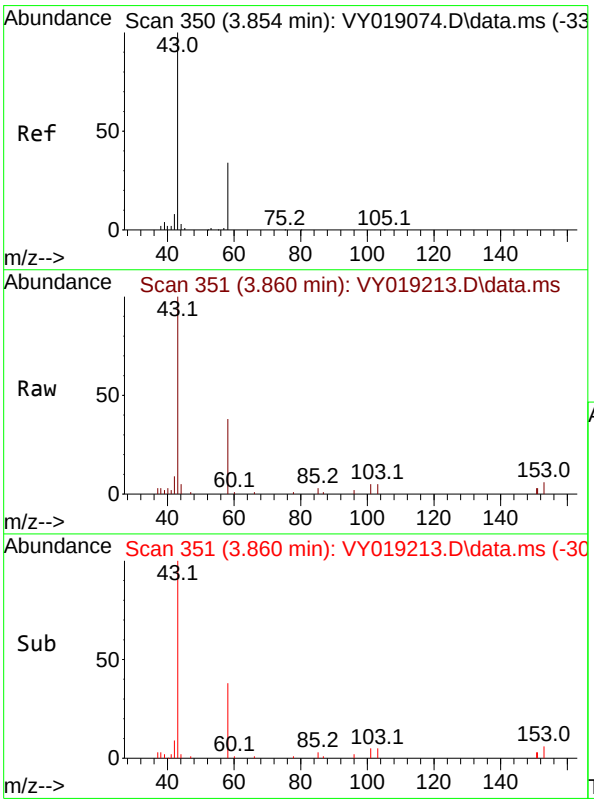
Ion	Ratio	Lower	Upper
53	100		
52	76.5	64.7	97.1
51	36.9	28.4	42.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

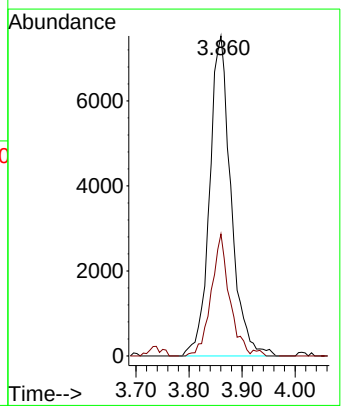


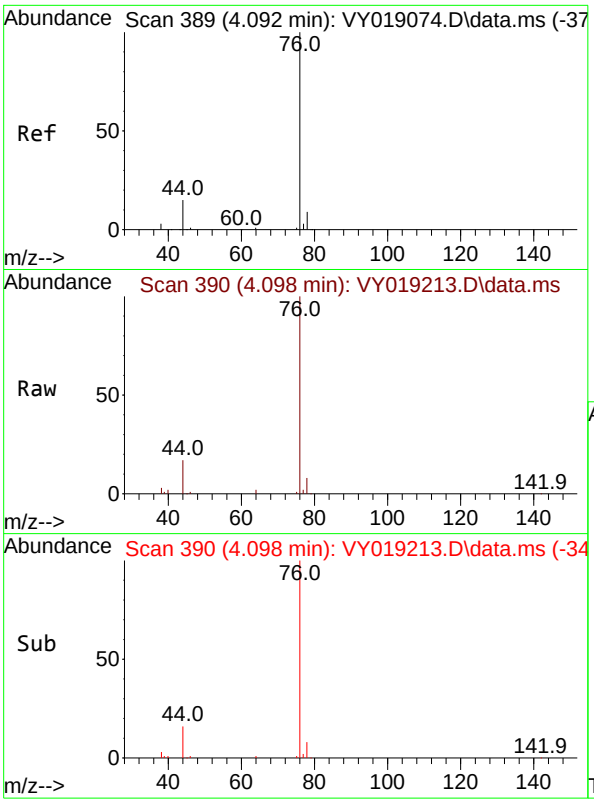


#16
Acetone
Concen: 103.556 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 43 Resp: 21066

Ion	Ratio	Lower	Upper
43	100		
58	38.1	31.7	47.5





#17
Carbon Disulfide
Concen: 18.400 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

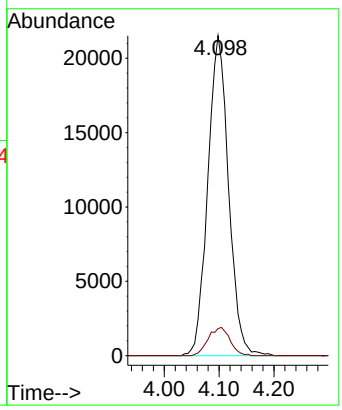
Tgt Ion: 76 Resp: 5665

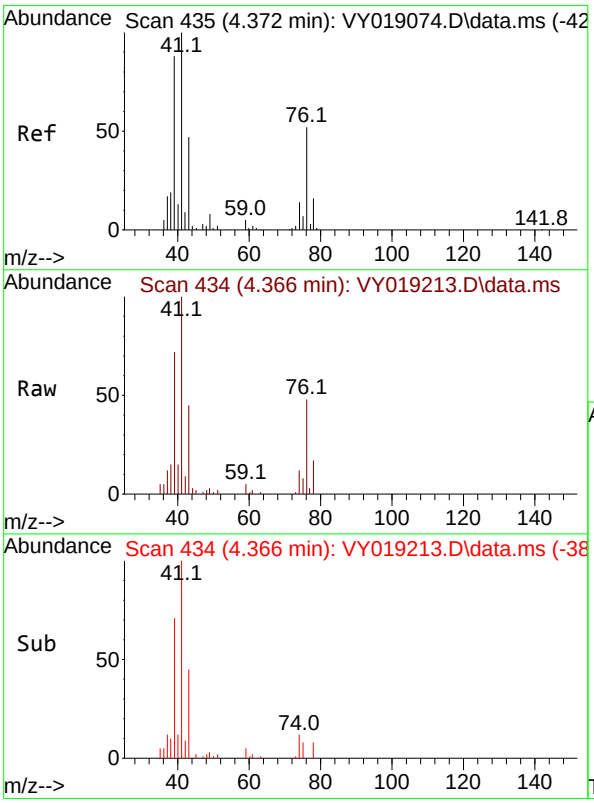
Ion	Ratio	Lower	Upper
76	100		
78	8.4	6.8	10.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

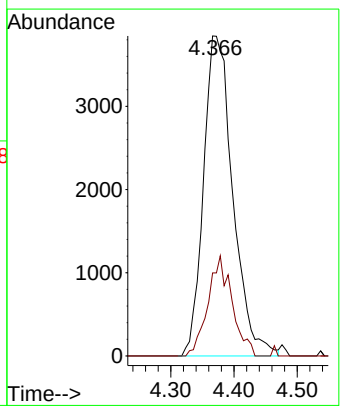


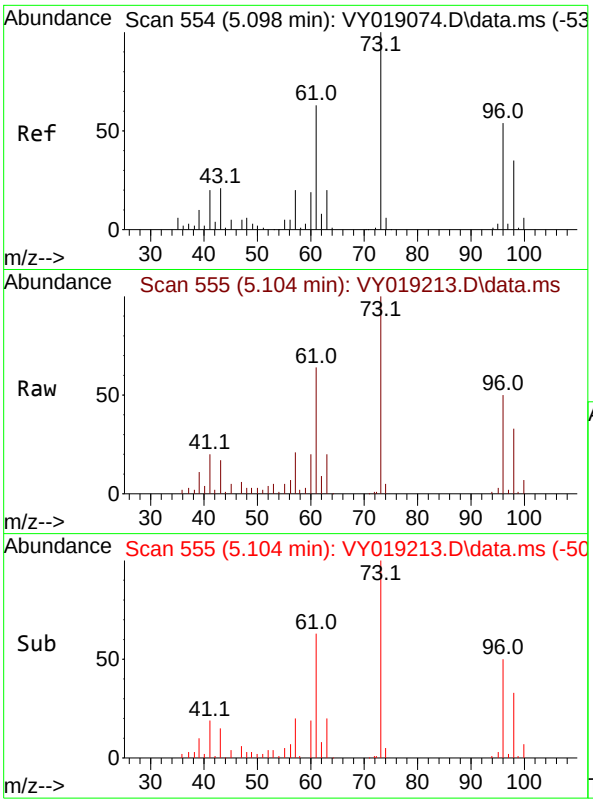


#18
Methyl Acetate
Concen: 19.858 ug/l
RT: 4.366 min Scan# 434
Delta R.T. -0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 43 Resp: 12398

Ion	Ratio	Lower	Upper
43	100		
74	25.8	23.3	34.9

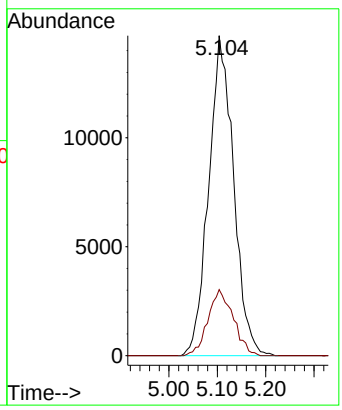




#19
Methyl tert-butyl Ether
Concen: 19.835 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 73 Resp: 5249

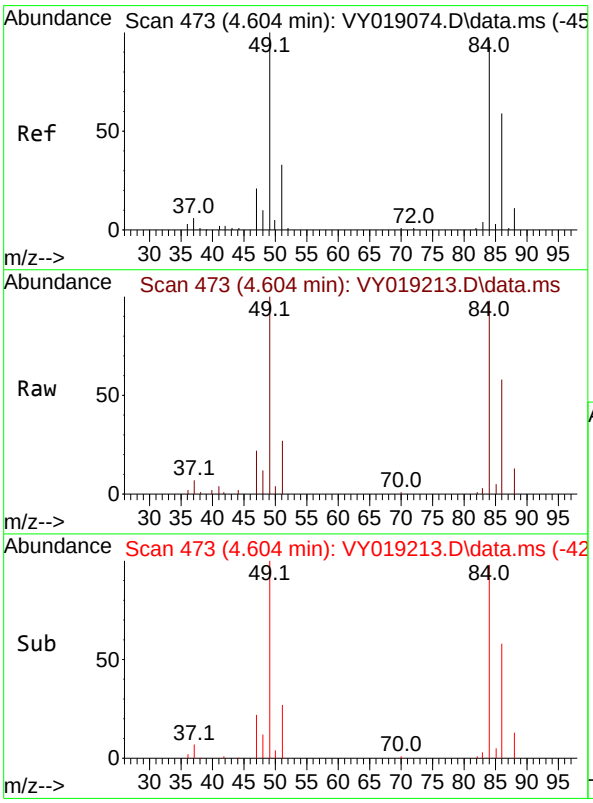
Ion	Ratio	Lower	Upper
73	100		
57	20.7	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

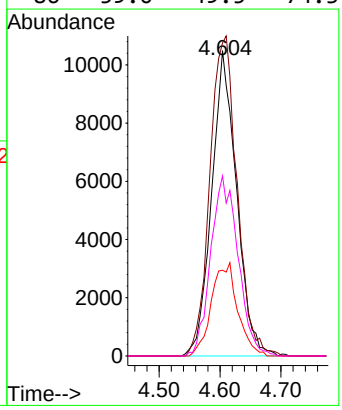
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

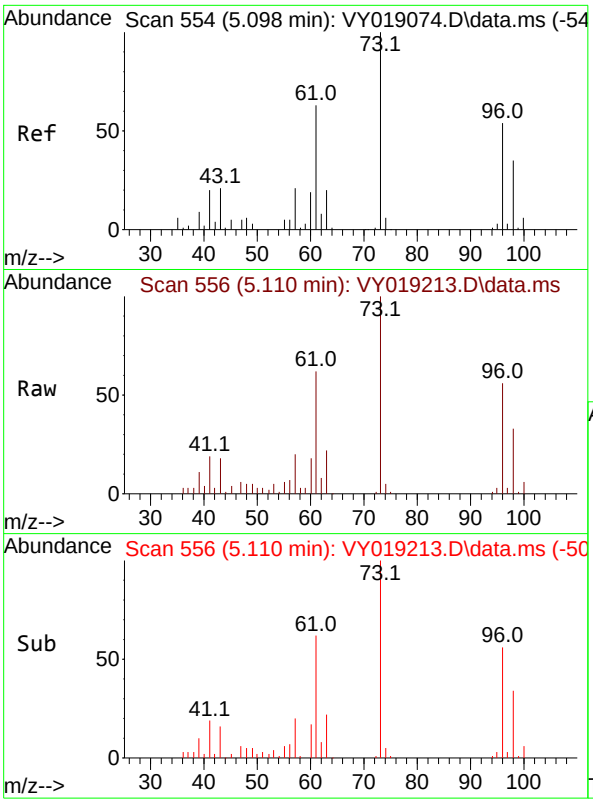


#20
Methylene Chloride
Concen: 16.712 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 84 Resp: 29715

Ion	Ratio	Lower	Upper
84	100		
49	102.6	84.4	126.6
51	28.1	26.0	39.0
86	59.0	49.5	74.3





#21
trans-1,2-Dichloroethene
Concen: 19.922 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

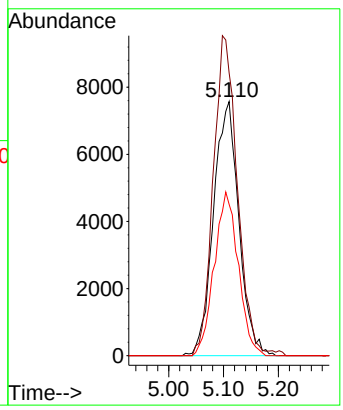
Tgt Ion: 96 Resp: 2429

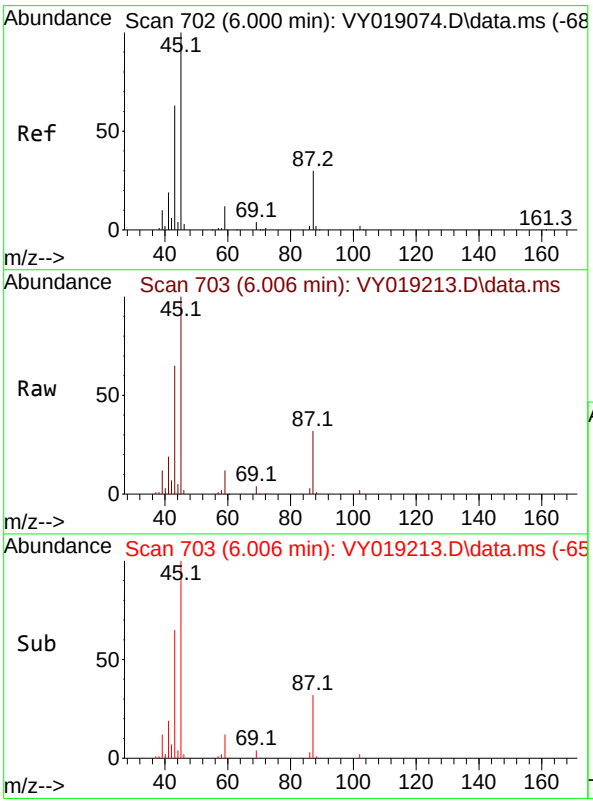
Ion	Ratio	Lower	Upper
96	100		
61	111.4	97.5	146.3
98	59.6	50.5	75.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

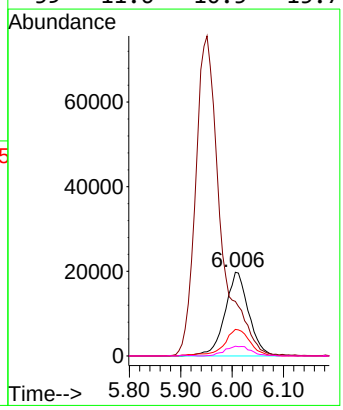


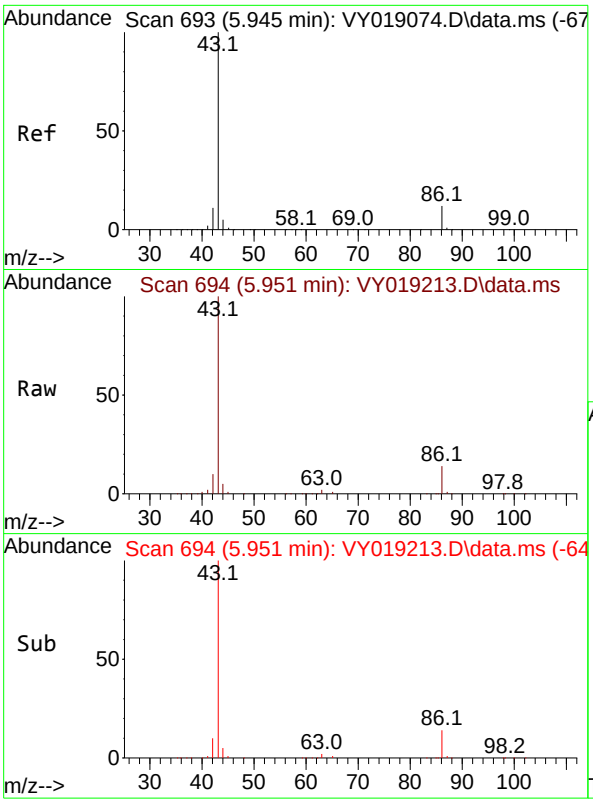


#22
Diisopropyl ether
Concen: 19.095 ug/l
RT: 6.006 min Scan# 703
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 45 Resp: 63438

Ion	Ratio	Lower	Upper
45	100		
43	64.1	42.2	63.2#
87	31.4	25.0	37.6
59	11.6	10.5	15.7





#23
Vinyl Acetate
Concen: 96.662 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

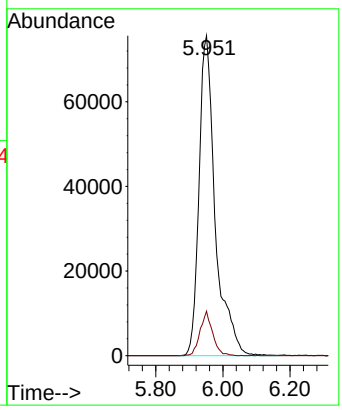
Tgt Ion: 43 Resp: 25424

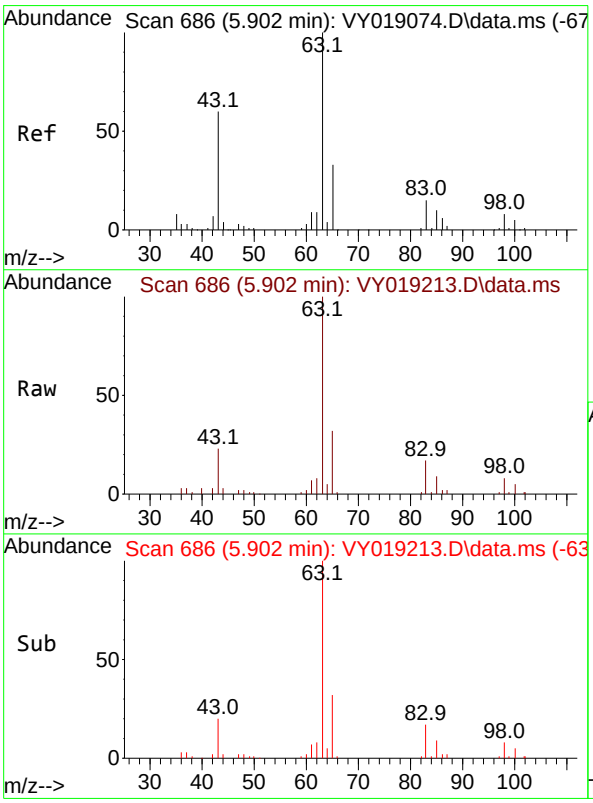
Ion	Ratio	Lower	Upper
43	100		
86	13.9	10.6	16.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

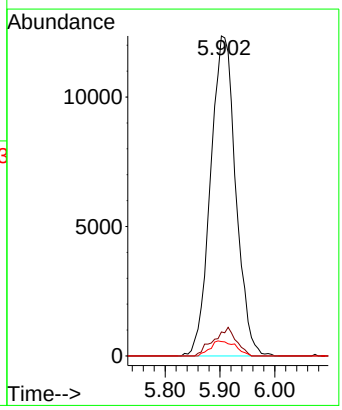


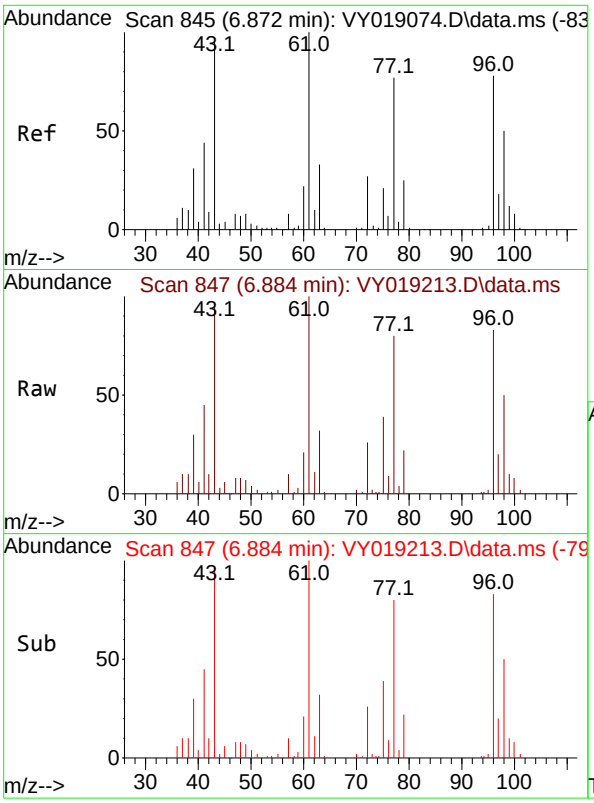


#24
1,1-Dichloroethane
Concen: 19.417 ug/l
RT: 5.902 min Scan# 686
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 63 Resp: 39451

Ion	Ratio	Lower	Upper
63	100		
98	7.5	4.0	12.2
100	4.5	2.6	8.0





#25
2-Butanone
Concen: 98.787 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

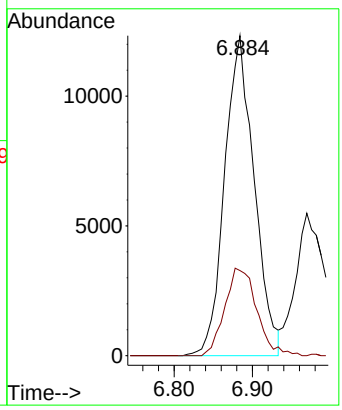
Tgt Ion: 43 Resp: 3236

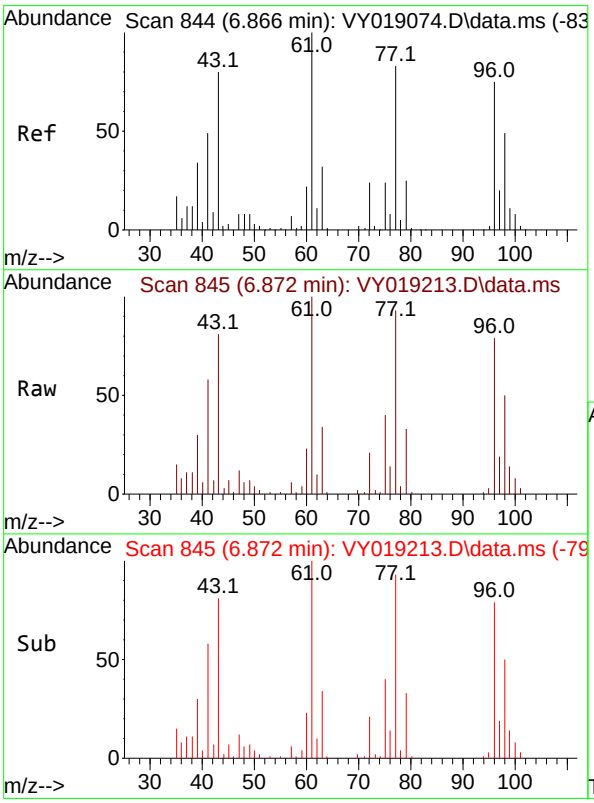
Ion	Ratio	Lower	Upper
43	100		
72	26.6	27.3	40.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

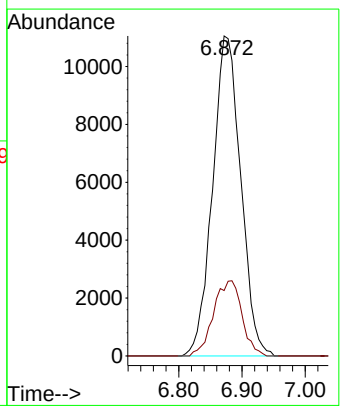


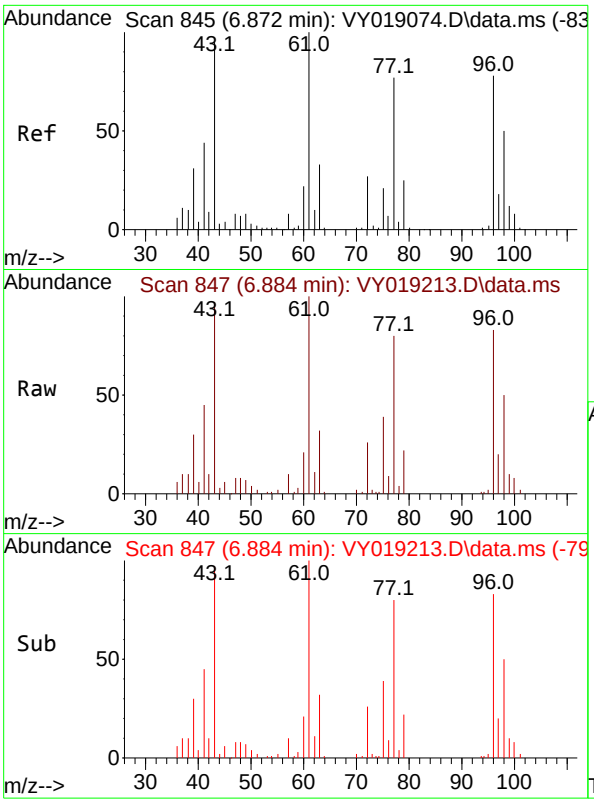


#26
2,2-Dichloropropane
Concen: 20.706 ug/l
RT: 6.872 min Scan# 845
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 77 Resp: 34067

Ion	Ratio	Lower	Upper
77	100		
97	23.8	12.0	36.1

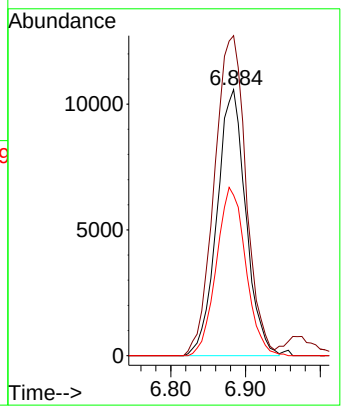




#27
cis-1,2-Dichloroethene
Concen: 19.765 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 96 Resp: 2836

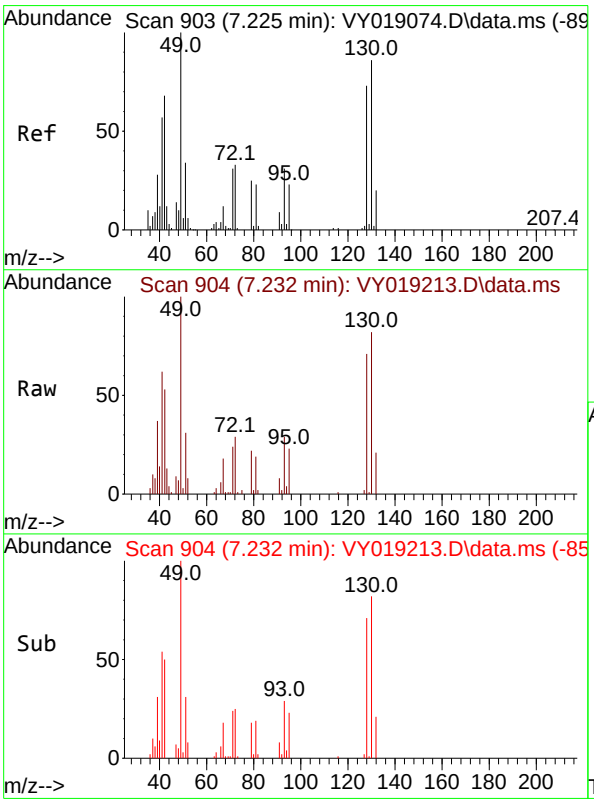
Ion	Ratio	Lower	Upper
96	100		
61	131.8	0.0	256.2
98	64.5	0.0	130.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

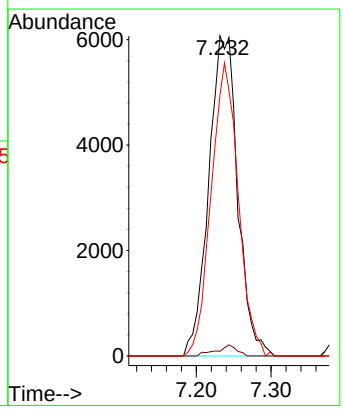
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

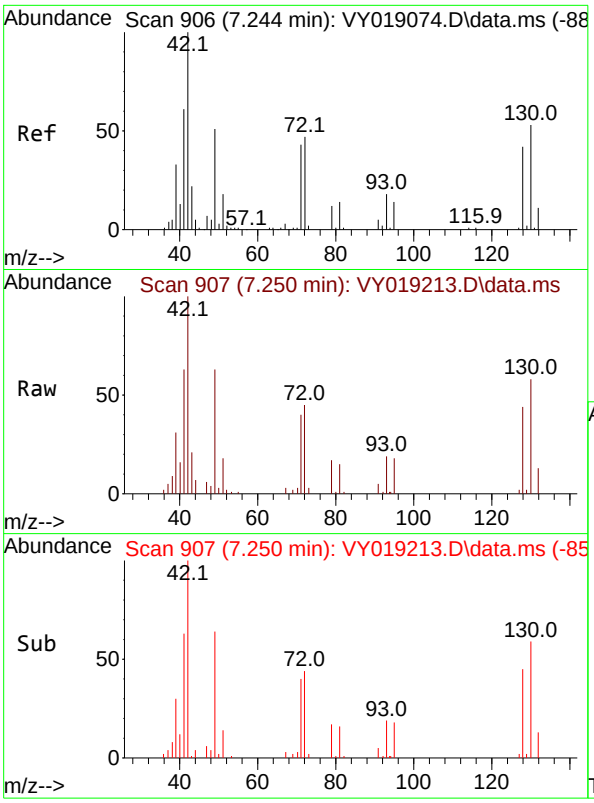


#28
Bromochloromethane
Concen: 19.162 ug/l
RT: 7.232 min Scan# 904
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 49 Resp: 16331

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.6
130	86.0	72.7	109.1





#29
Tetrahydrofuran
Concen: 95.457 ug/l
RT: 7.250 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

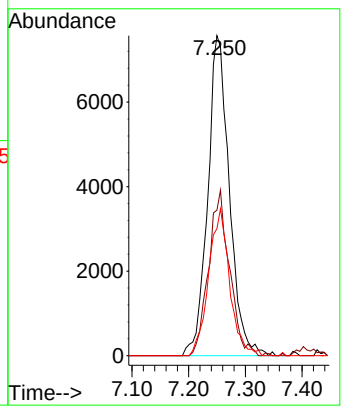
Tgt Ion: 42 Resp: 2010

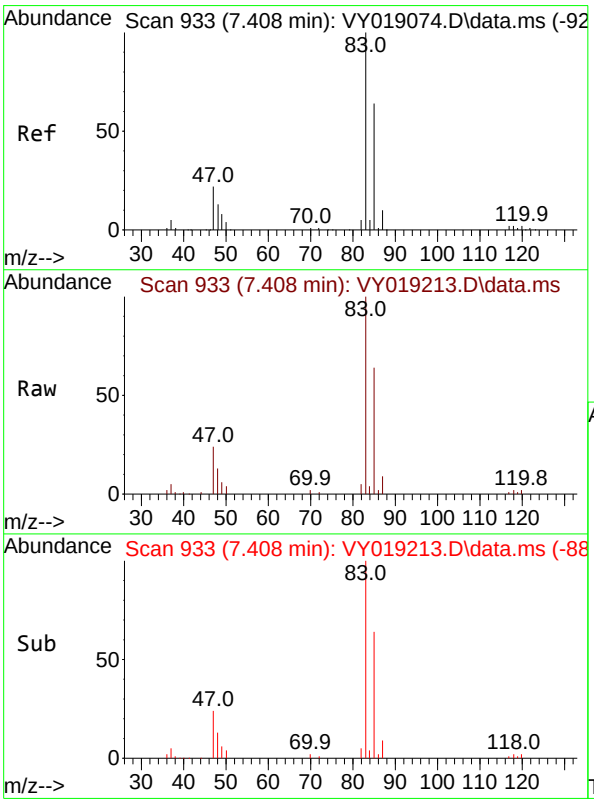
Ion	Ratio	Lower	Upper
42	100		
72	49.8	43.0	64.4
71	44.5	40.8	61.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

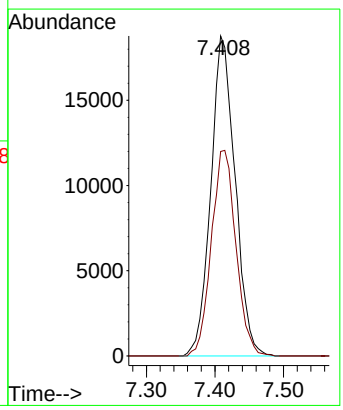


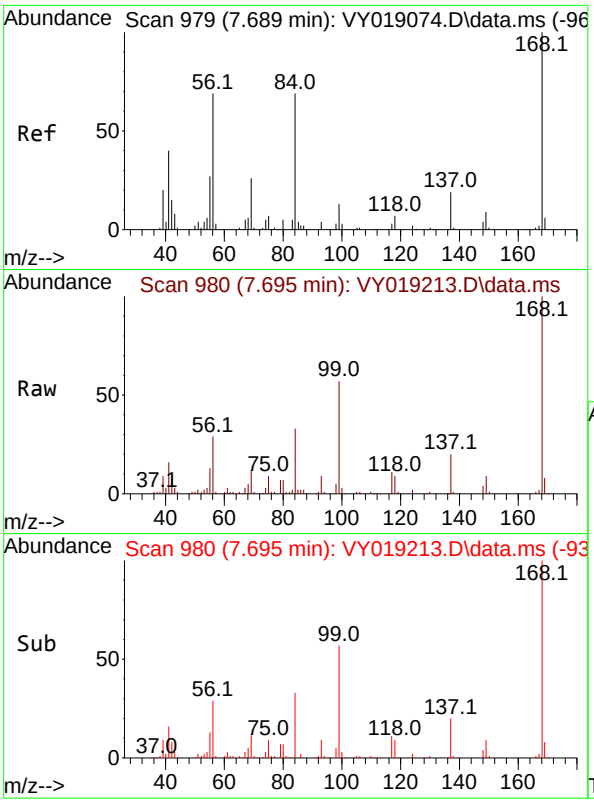


#30
Chloroform
Concen: 20.418 ug/l
RT: 7.408 min Scan# 933
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 83 Resp: 46225

Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.2	78.4

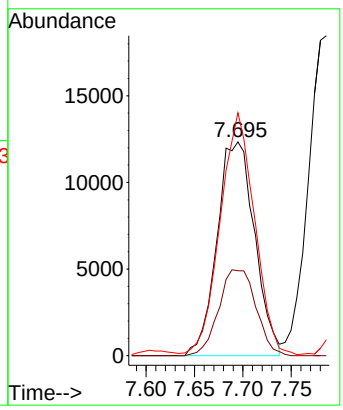




#31
Cyclohexane
Concen: 18.568 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 56 Resp: 3335

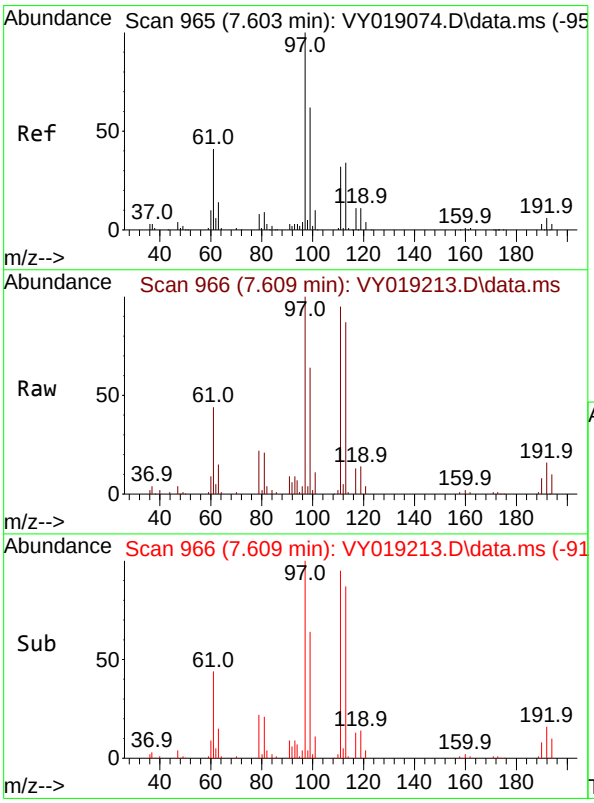
Ion	Ratio	Lower	Upper
56	100		
69	39.7	28.7	43.1
84	112.6	77.7	116.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

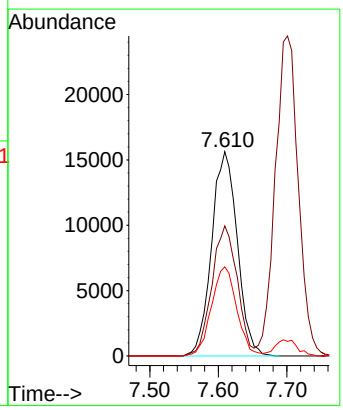
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

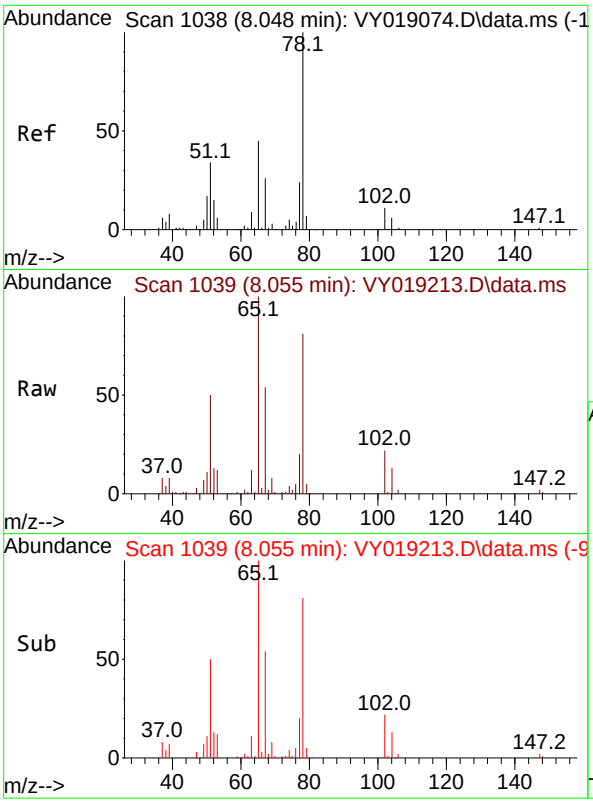


#32
1,1,1-Trichloroethane
Concen: 20.441 ug/l
RT: 7.609 min Scan# 966
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 97 Resp: 40669

Ion	Ratio	Lower	Upper
97	100		
99	63.0	50.3	75.5
61	42.9	32.6	48.8

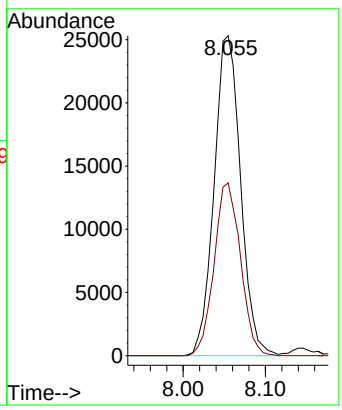




#33
1,2-Dichloroethane-d4
Concen: 51.659 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 65 Resp: 5666

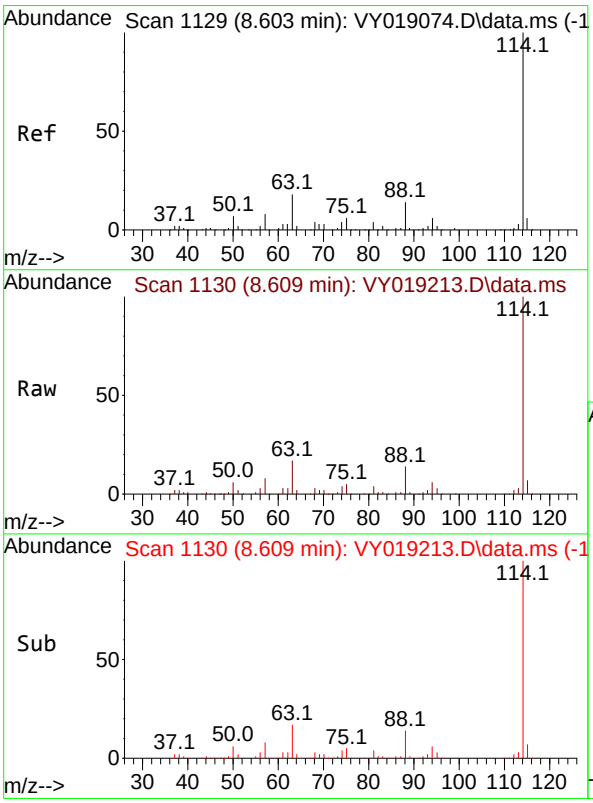
Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	109.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

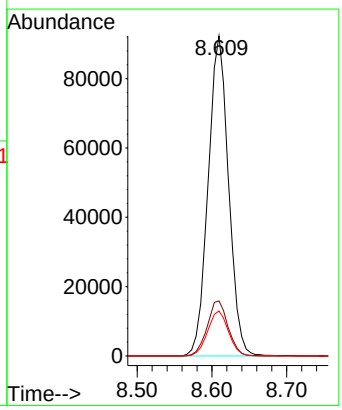
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

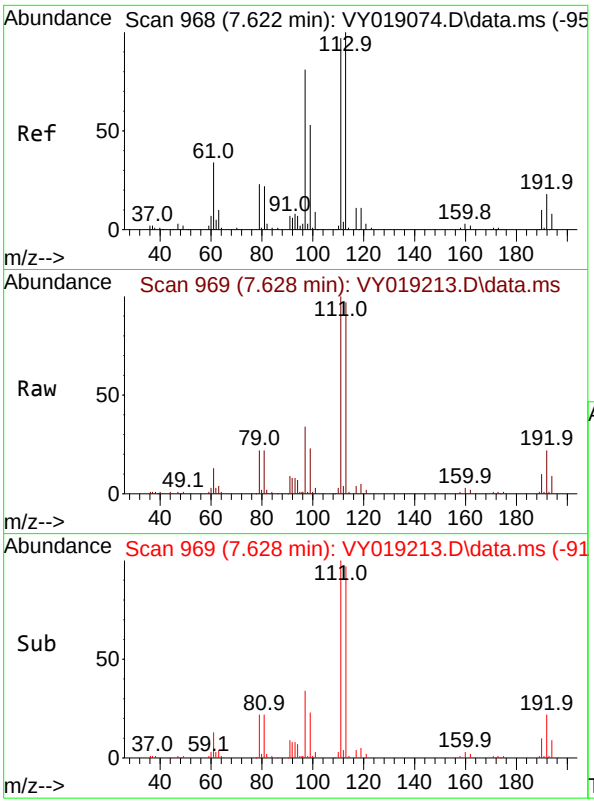


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:114 Resp: 175354

Ion	Ratio	Lower	Upper
114	100		
63	17.2	0.0	35.0
88	14.1	0.0	27.2

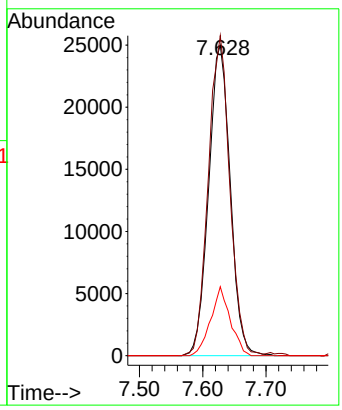




#35
Dibromofluoromethane
Concen: 51.649 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:113 Resp: 5921

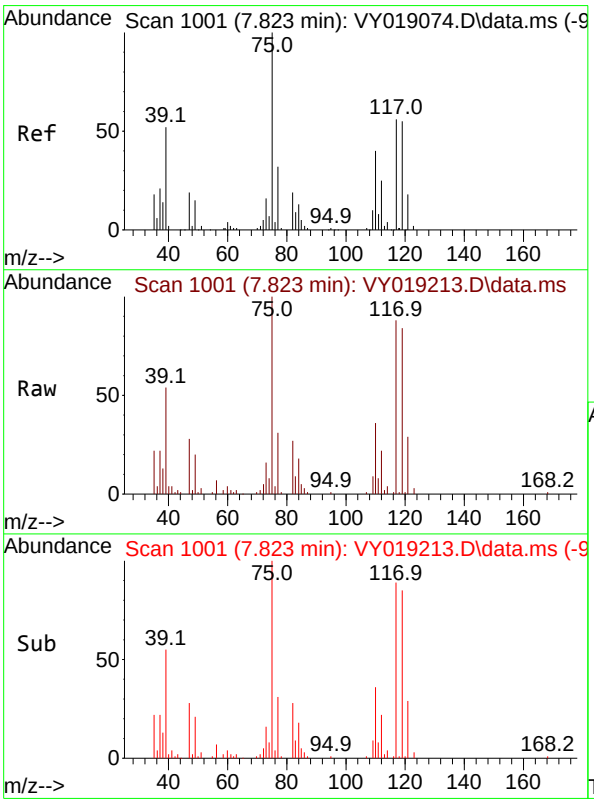
Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.4
192	20.2	15.9	23.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

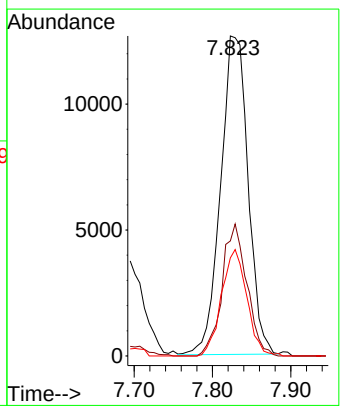
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

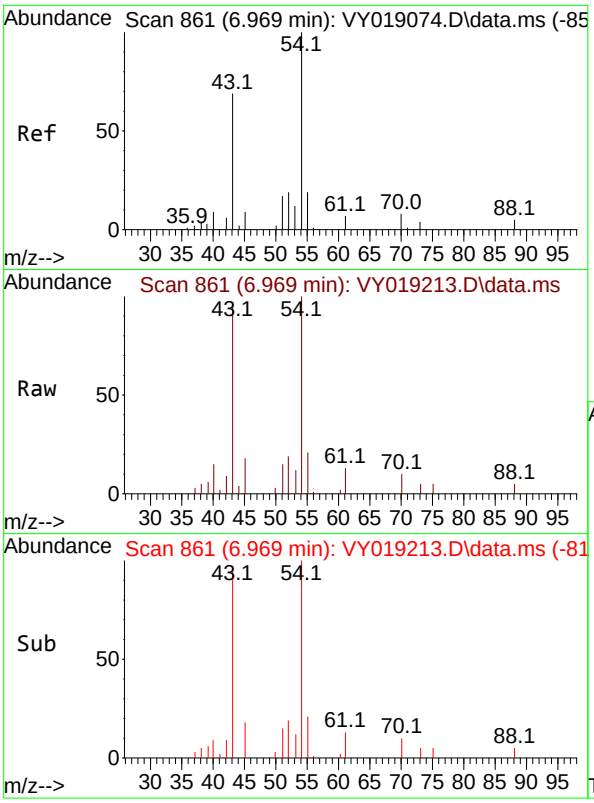


#36
1,1-Dichloropropene
Concen: 19.578 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 75 Resp: 30825

Ion	Ratio	Lower	Upper
75	100		
110	37.4	19.0	57.0
77	30.9	25.3	37.9





#37
Ethyl Acetate
Concen: 20.775 ug/l
RT: 6.969 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

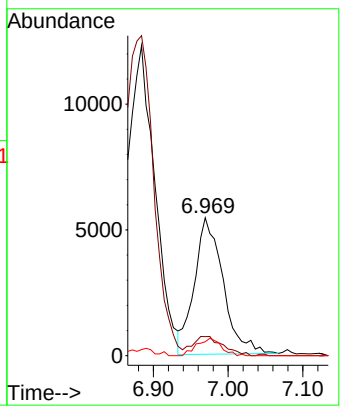
Tgt Ion: 43 Resp: 1449

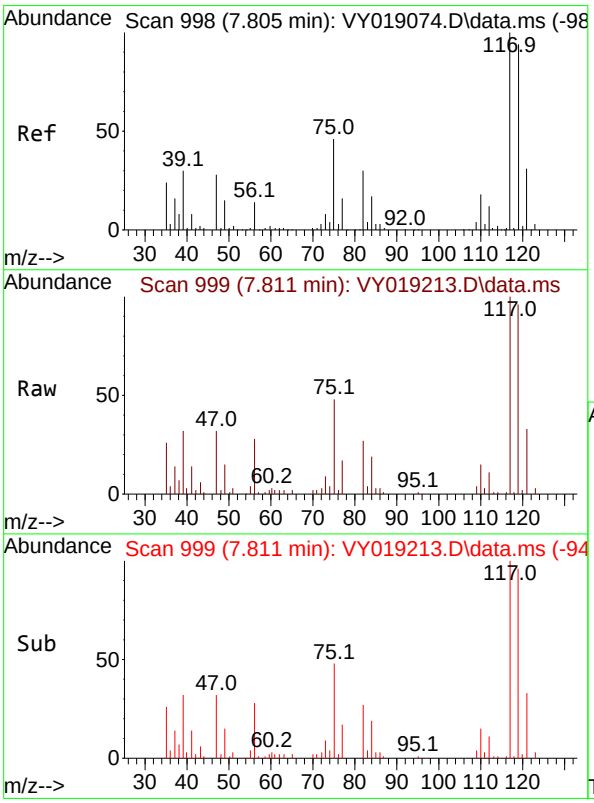
Ion	Ratio	Lower	Upper
43	100		
61	15.0	12.6	19.0
70	10.8	7.8	11.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

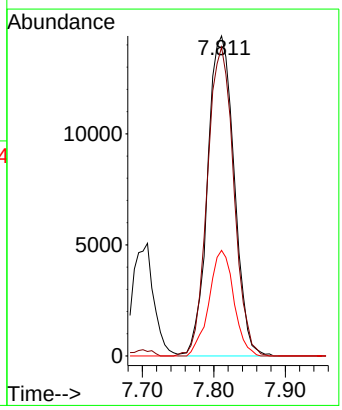


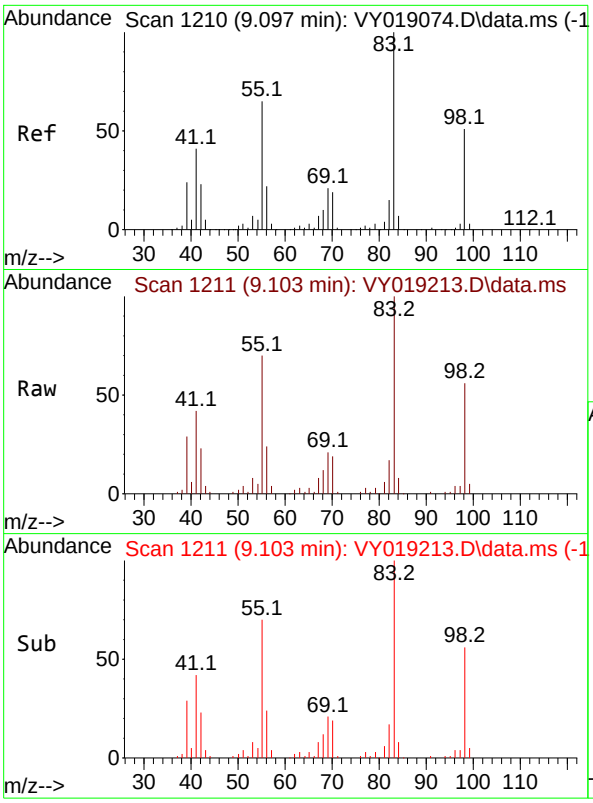


#38
Carbon Tetrachloride
Concen: 20.375 ug/l
RT: 7.811 min Scan# 999
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:117 Resp: 37176

Ion	Ratio	Lower	Upper
117	100		
119	96.5	75.8	113.6
121	33.0	24.0	36.0

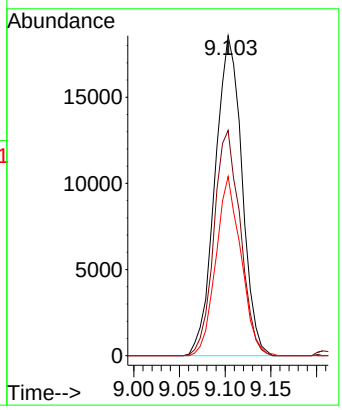




#39
Methylcyclohexane
Concen: 18.847 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 83 Resp: 3808

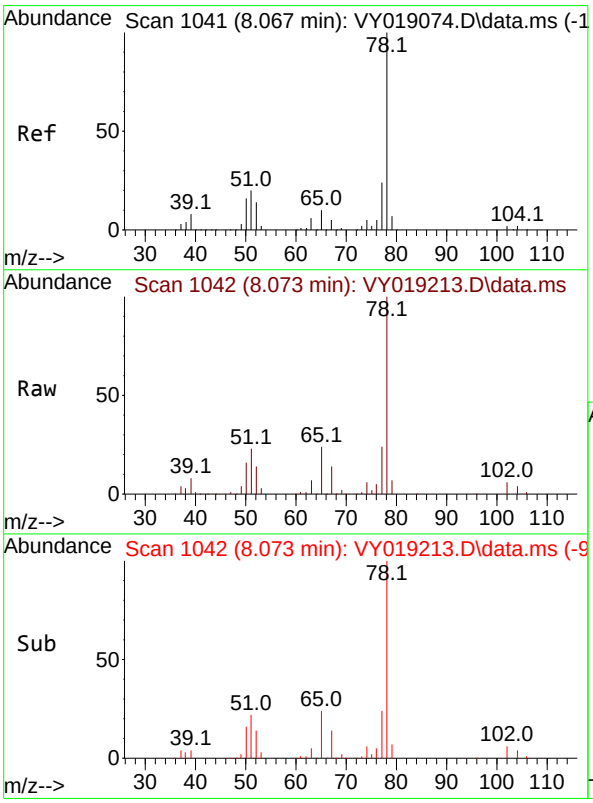
Ion	Ratio	Lower	Upper
83	100		
55	70.4	51.5	77.3
98	56.0	40.5	60.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

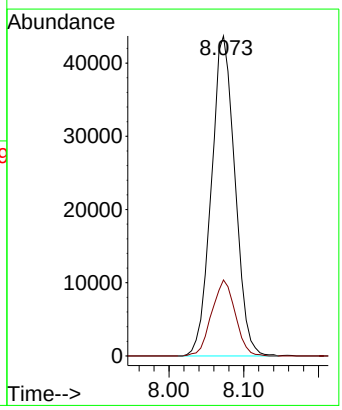
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

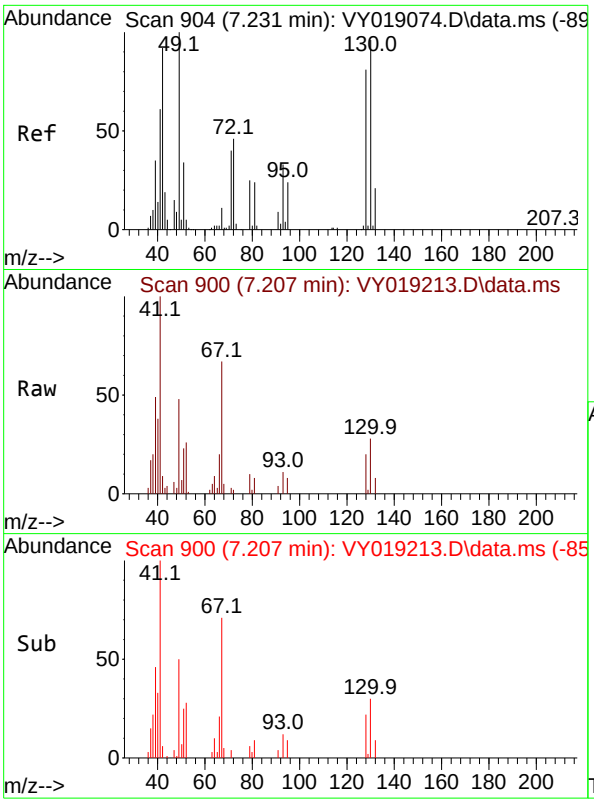


#40
Benzene
Concen: 19.918 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 78 Resp: 96181

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.5	29.3

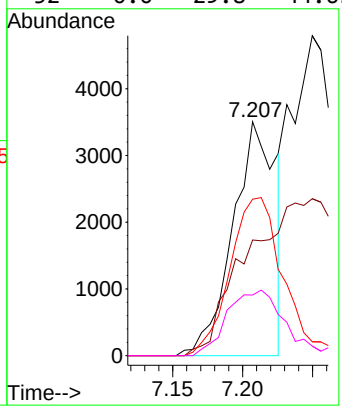




#41
Methacrylonitrile
Concen: 19.617 ug/l m
RT: 7.207 min Scan# 9
Delta R.T. -0.024 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 41 Resp: 746

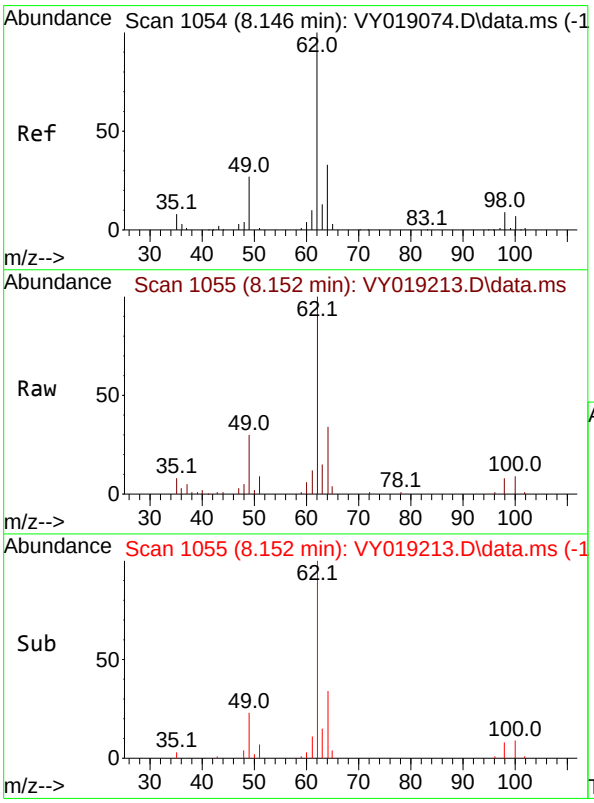
Ion	Ratio	Lower	Upper
41	100		
39	150.5	48.0	72.0#
67	0.0	75.1	112.7#
52	0.0	29.8	44.6#



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

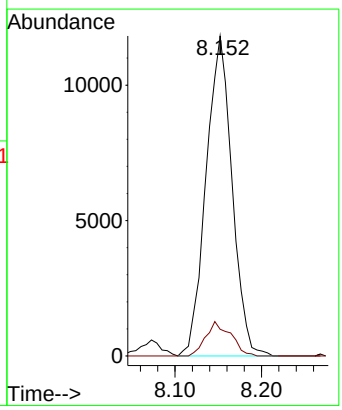
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

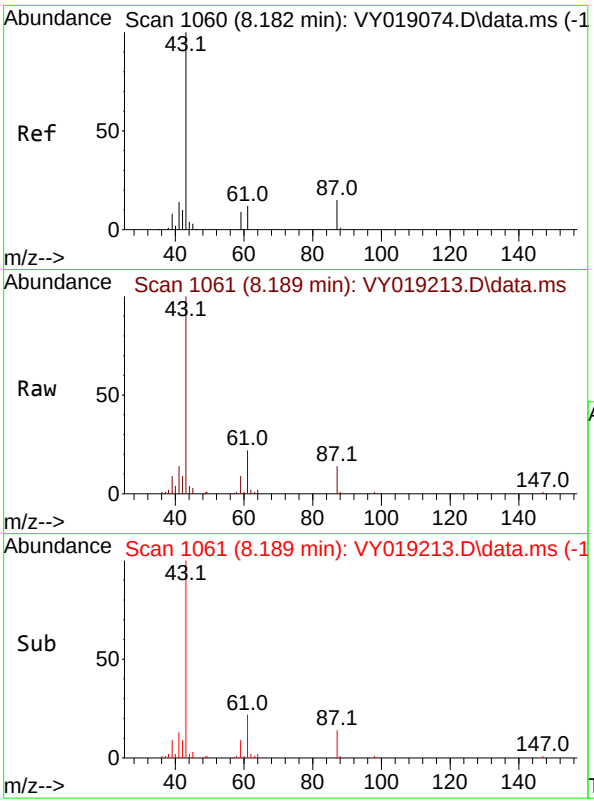


#42
1,2-Dichloroethane
Concen: 18.909 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 62 Resp: 24657

Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	22.0





#43
Isopropyl Acetate
Concen: 19.227 ug/l
RT: 8.189 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

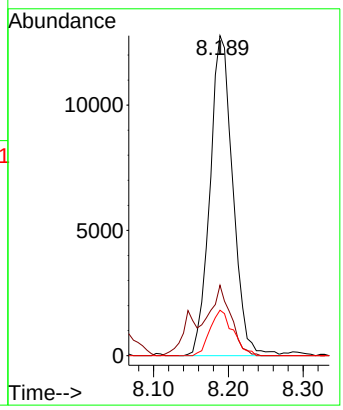
Tgt Ion: 43 Resp: 2712

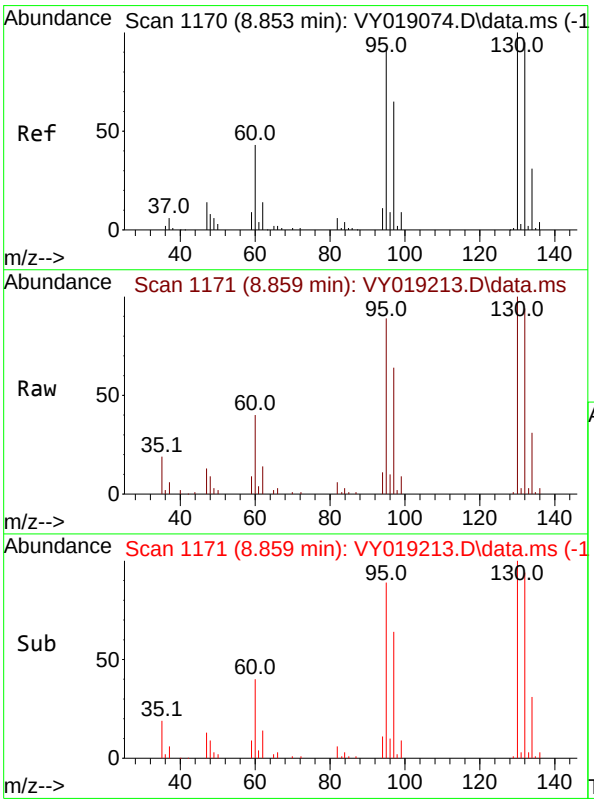
Ion	Ratio	Lower	Upper
43	100		
61	21.6	27.9	41.9
87	14.3	13.1	19.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

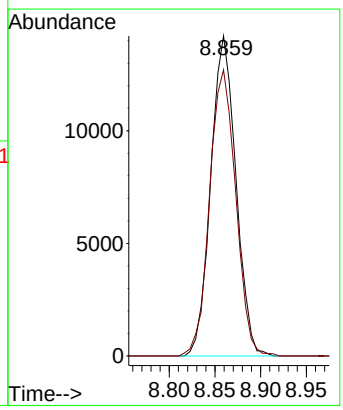


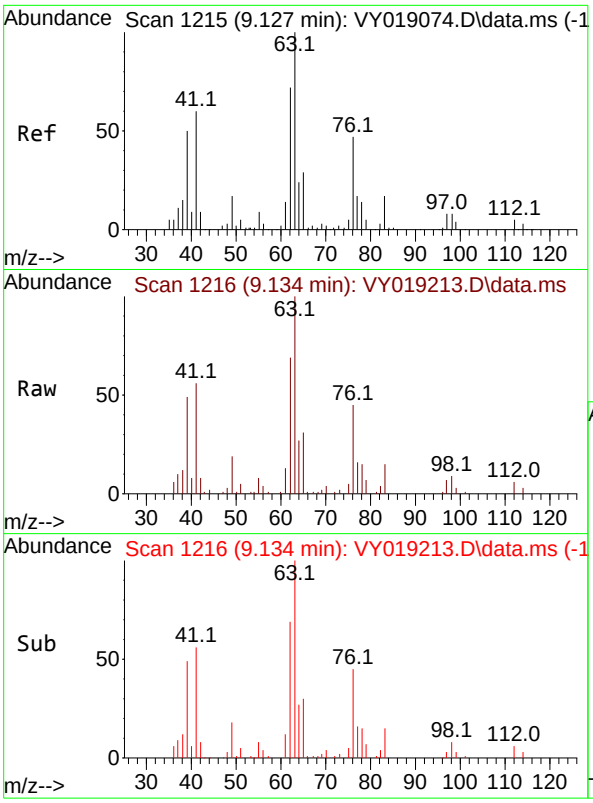


#44
Trichloroethene
Concen: 20.168 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:130 Resp: 27173

Ion	Ratio	Lower	Upper
130	100		
95	89.4	0.0	188.0

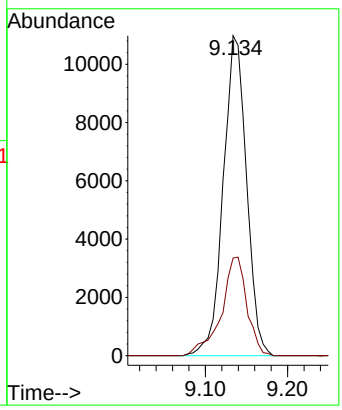




#45
1,2-Dichloropropane
Concen: 20.117 ug/l
RT: 9.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 63 Resp: 2164

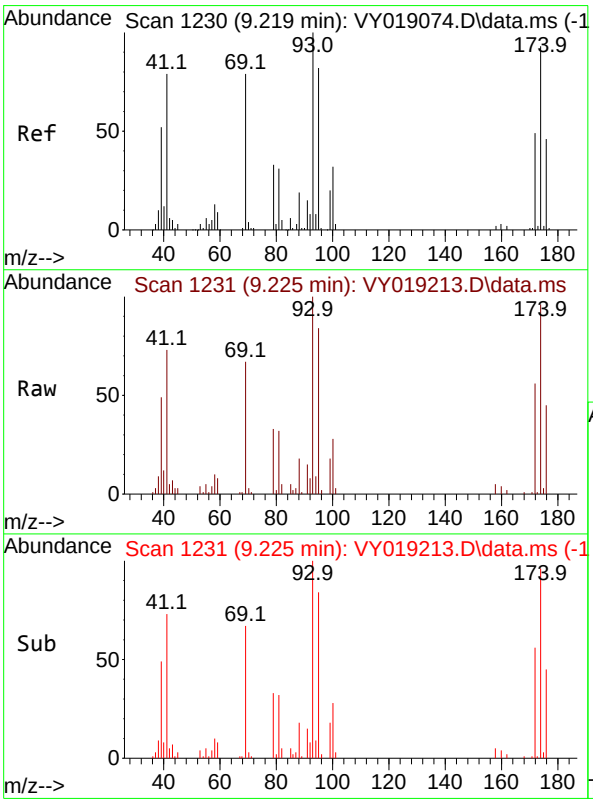
Ion	Ratio	Lower	Upper
63	100		
65	30.5	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

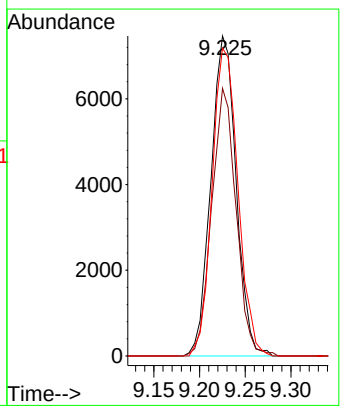
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

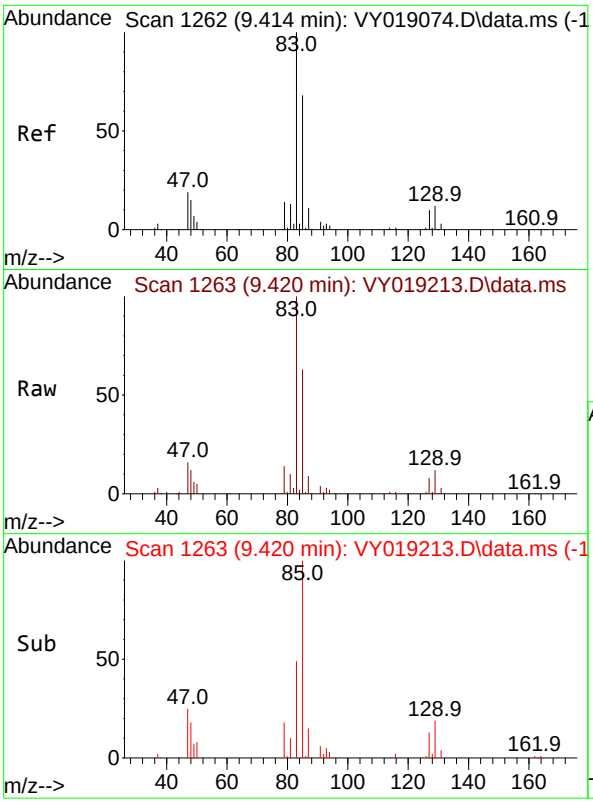


#46
Dibromomethane
Concen: 20.573 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 93 Resp: 14356

Ion	Ratio	Lower	Upper
93	100		
95	80.7	66.2	99.4
174	98.3	80.9	121.3

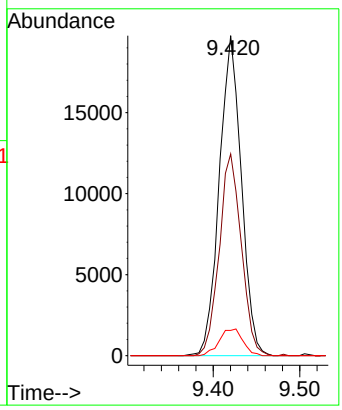




#47
Bromodichloromethane
Concen: 20.370 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 83 Resp: 3487

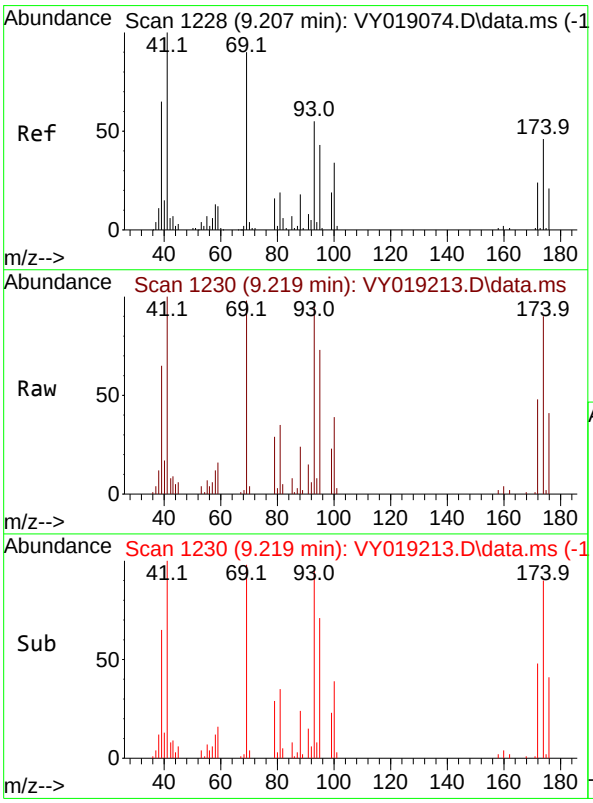
Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.1	75.1
127	7.9	7.4	11.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

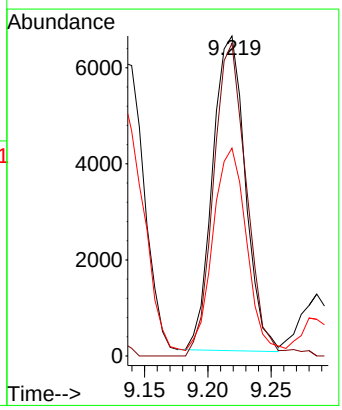
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

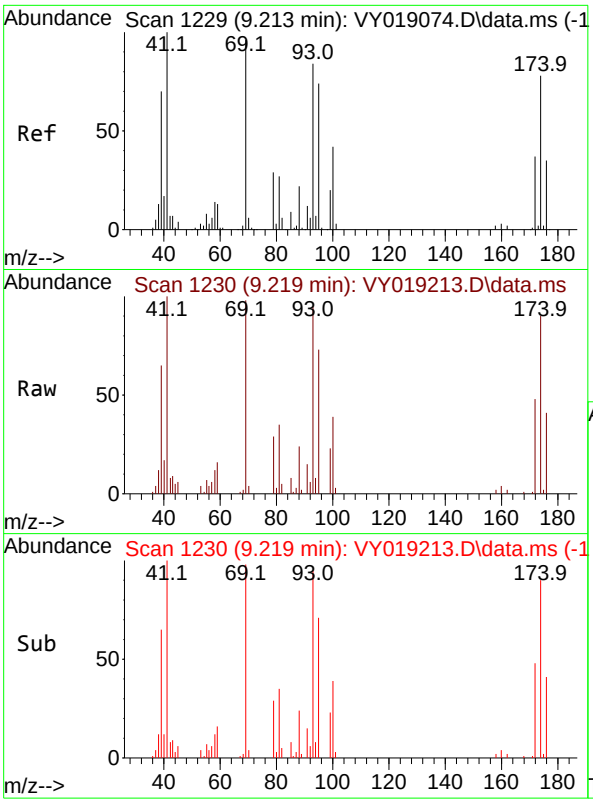


#48
Methyl methacrylate
Concen: 18.732 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.012 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 41 Resp: 11777

Ion	Ratio	Lower	Upper
41	100		
69	100.4	84.1	126.1
39	66.2	43.6	65.4#

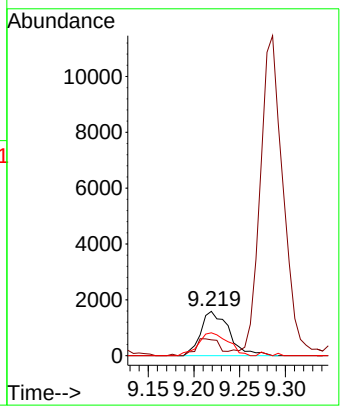




#49
1,4-Dioxane
Concen: 406.491 ug/l
RT: 9.219 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 88 Resp: 343

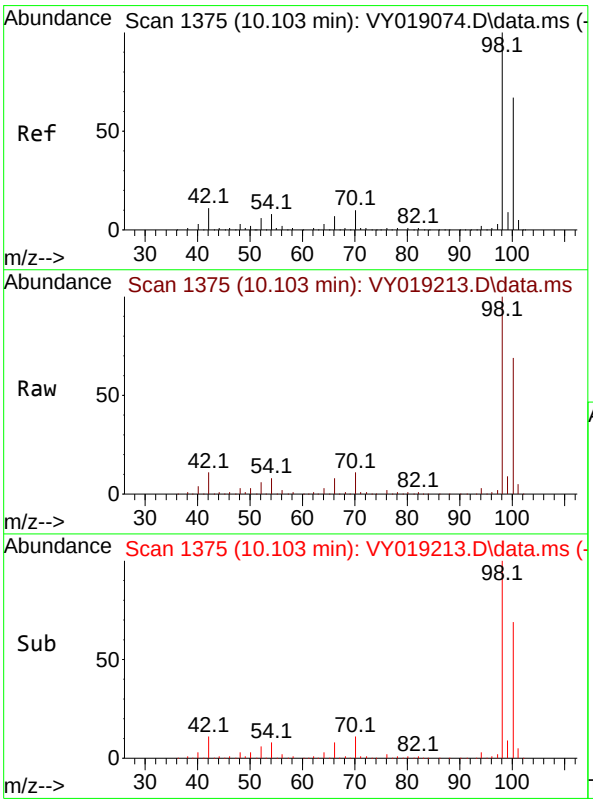
Ion	Ratio	Lower	Upper
88	100		
43	31.7	0.0	0.0
58	54.0	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

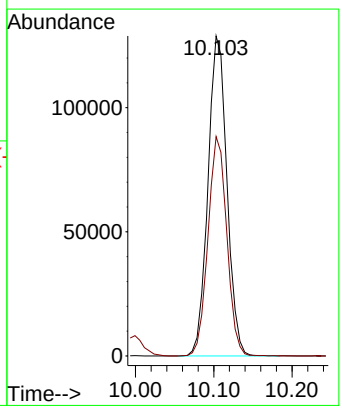
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

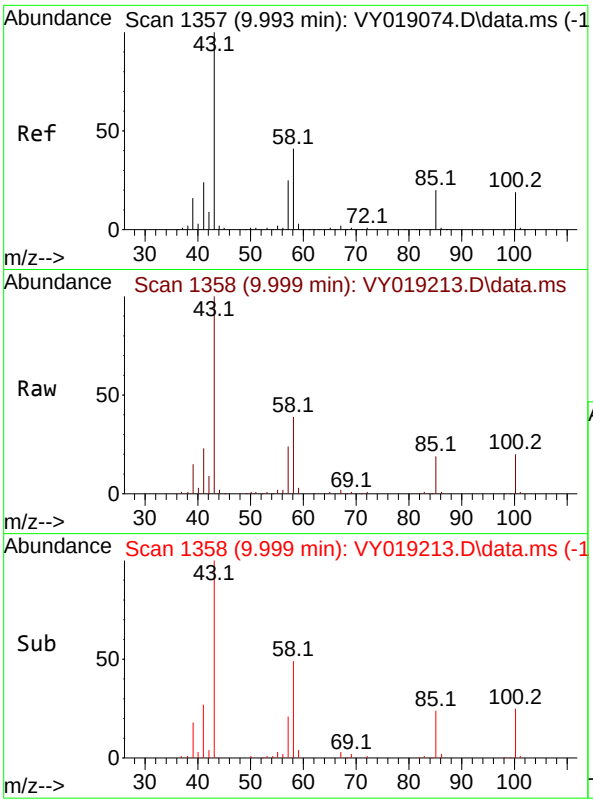


#50
Toluene-d8
Concen: 52.482 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 98 Resp: 216548

Ion	Ratio	Lower	Upper
98	100		
100	68.0	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 97.189 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

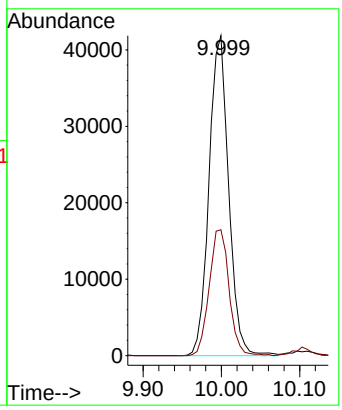
Tgt Ion: 43 Resp: 7277

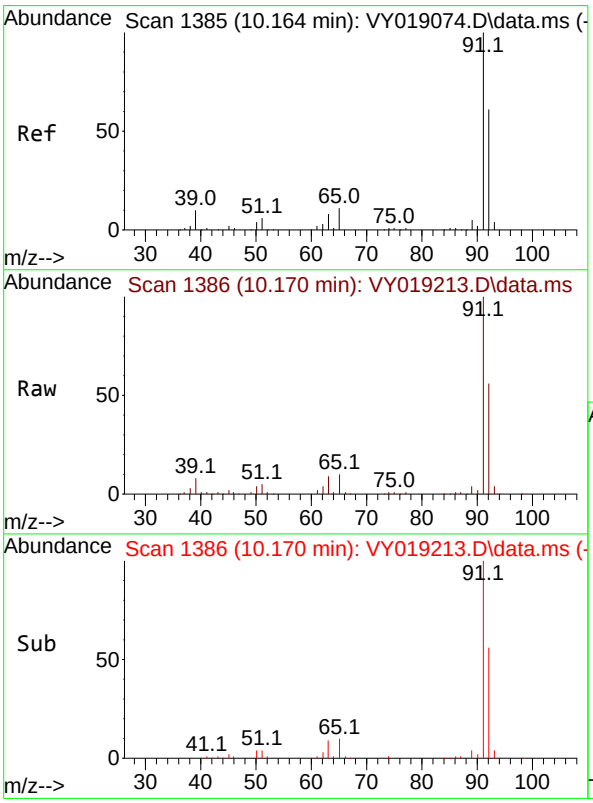
Ion	Ratio	Lower	Upper
43	100		
58	40.0	35.7	53.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

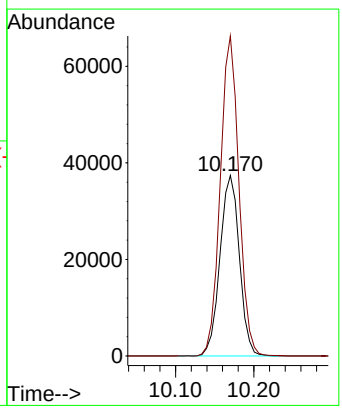


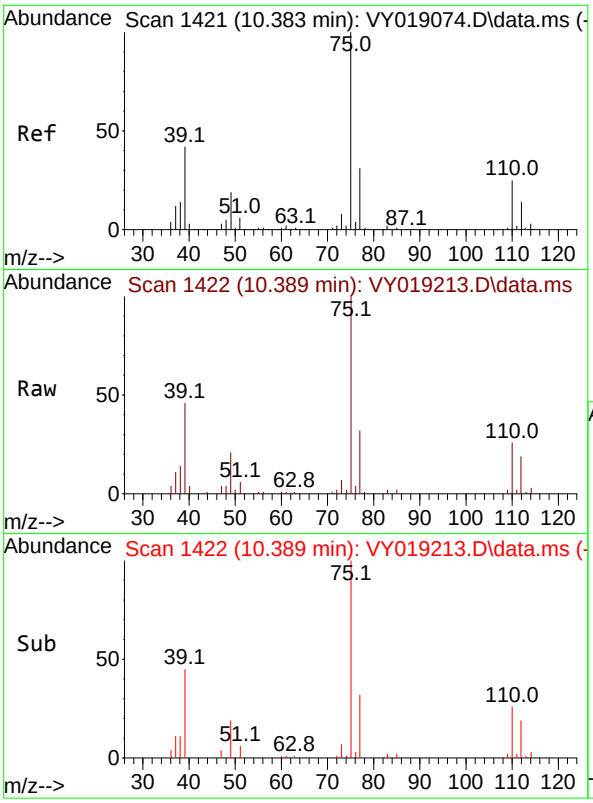


#52
Toluene
Concen: 20.282 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 92 Resp: 64289

Ion	Ratio	Lower	Upper
92	100		
91	170.5	139.0	208.6





#53
t-1,3-Dichloropropene
Concen: 20.378 ug/l
RT: 10.389 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

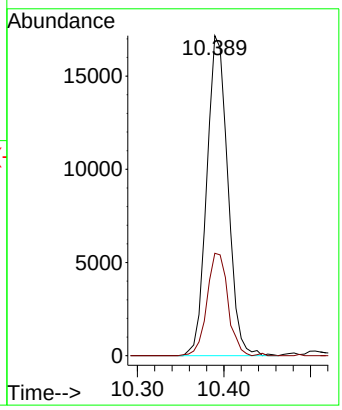
Tgt Ion: 75 Resp: 2893

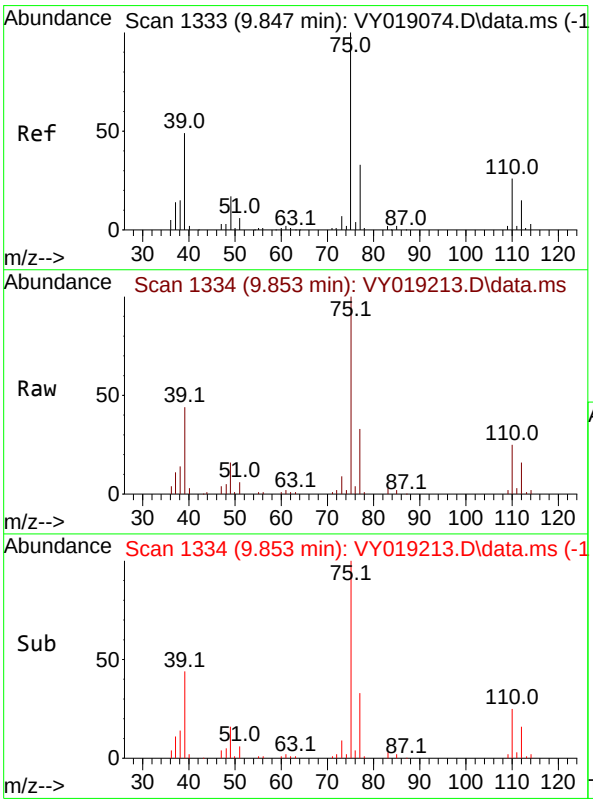
Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.1	36.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

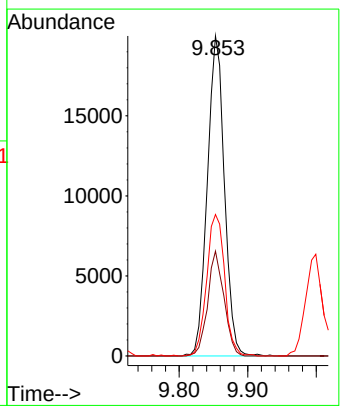


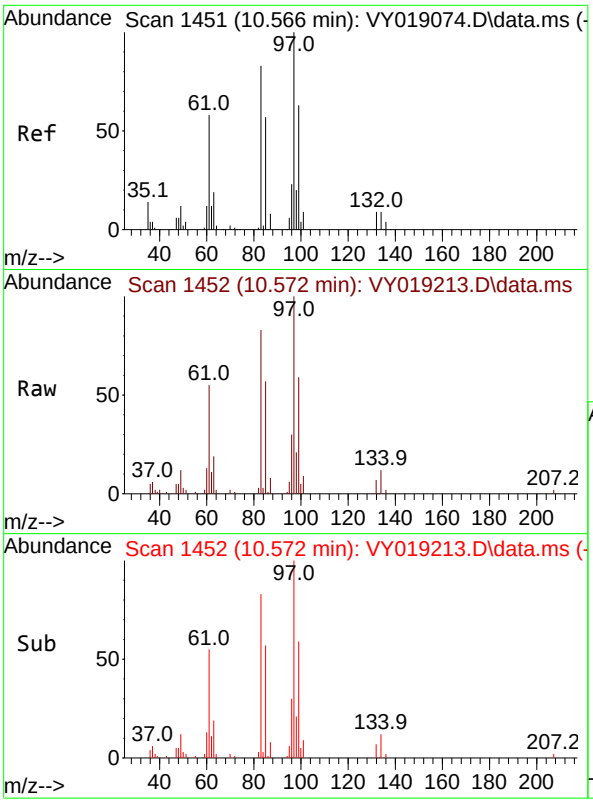


#54
cis-1,3-Dichloropropene
Concen: 20.252 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 75 Resp: 34589

Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.4	38.0
39	44.2	29.8	44.6

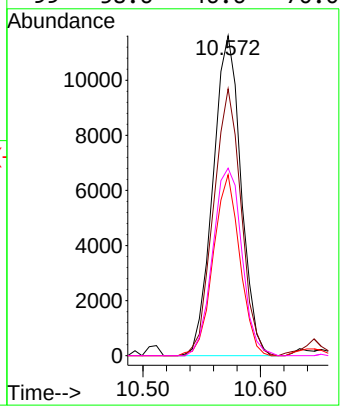




#55
1,1,2-Trichloroethane
Concen: 21.423 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 97 Resp: 1924

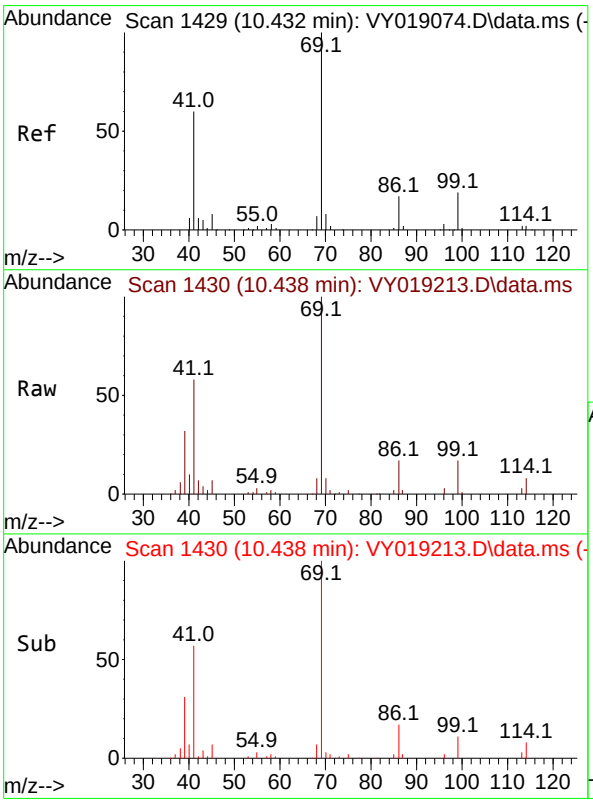
Ion	Ratio	Lower	Upper
97	100		
83	83.4	67.5	101.3
85	56.5	42.9	64.3
99	58.6	46.6	70.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

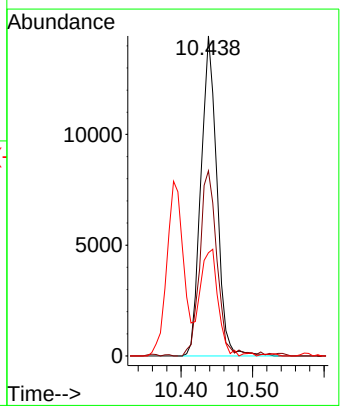
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

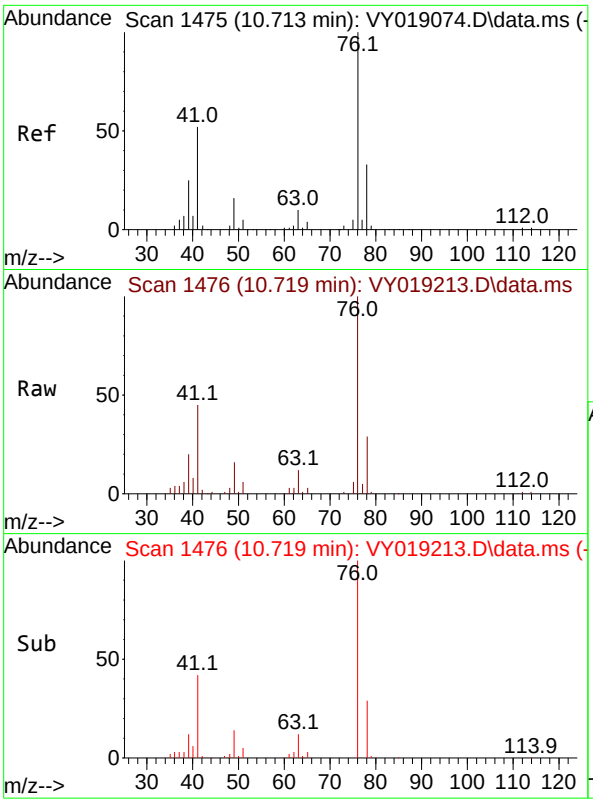


#56
Ethyl methacrylate
Concen: 19.078 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 69 Resp: 22432

Ion	Ratio	Lower	Upper
69	100		
41	62.4	42.3	63.5
39	36.9	22.9	34.3#

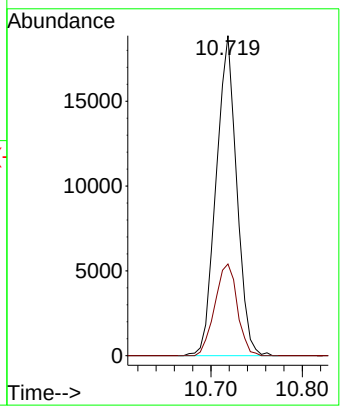




#57
1,3-Dichloropropane
Concen: 20.177 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 76 Resp: 2954

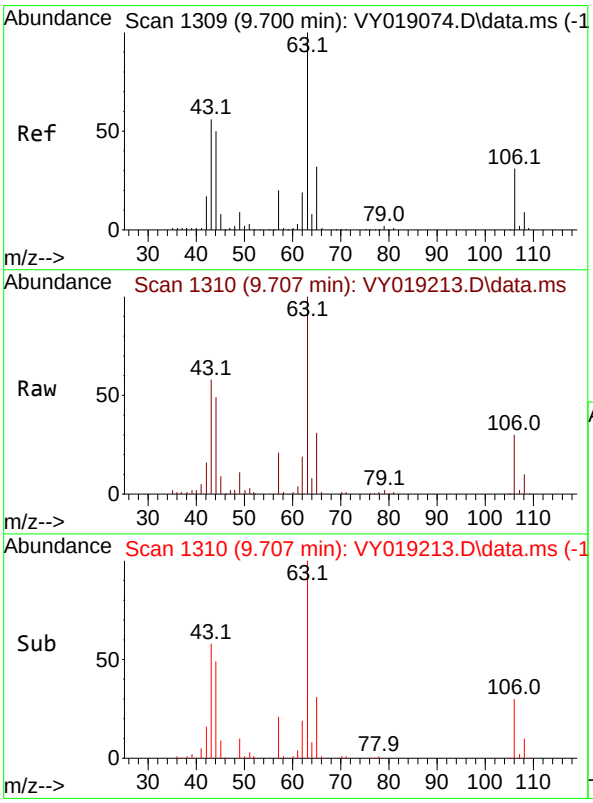
Ion	Ratio	Lower	Upper
76	100		
78	31.2	26.2	39.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

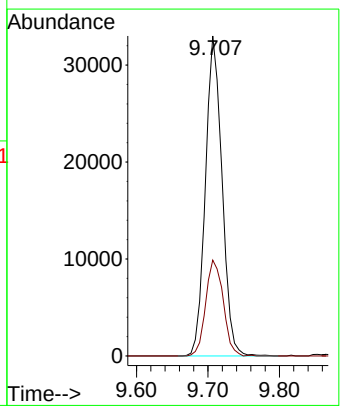
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

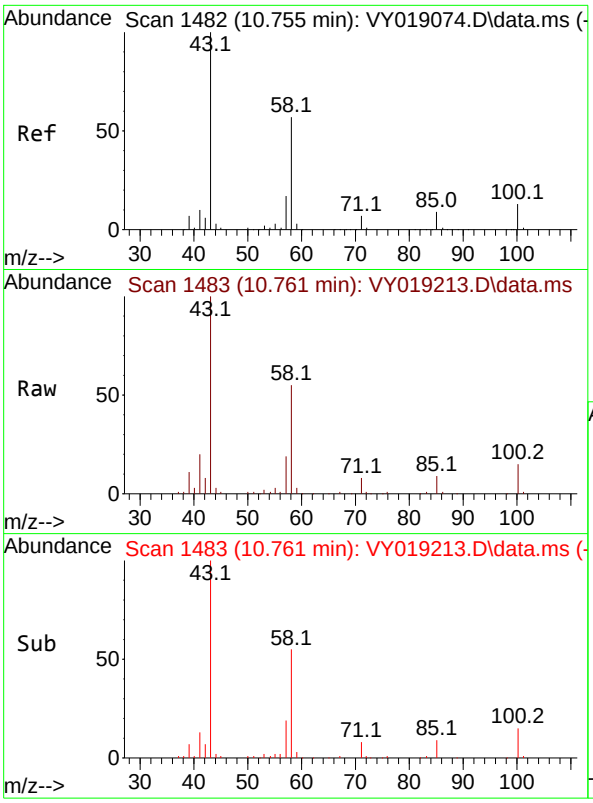


#58
2-Chloroethyl Vinyl ether
Concen: 95.572 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 63 Resp: 53309

Ion	Ratio	Lower	Upper
63	100		
106	31.6	23.7	35.5





#59
2-Hexanone
Concen: 99.444 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

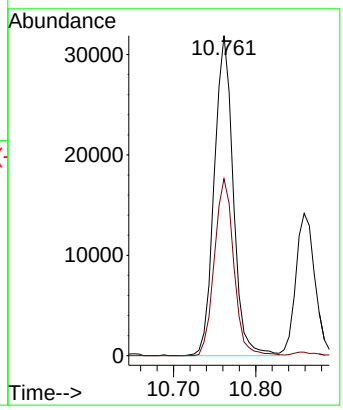
Tgt Ion: 43 Resp: 5115

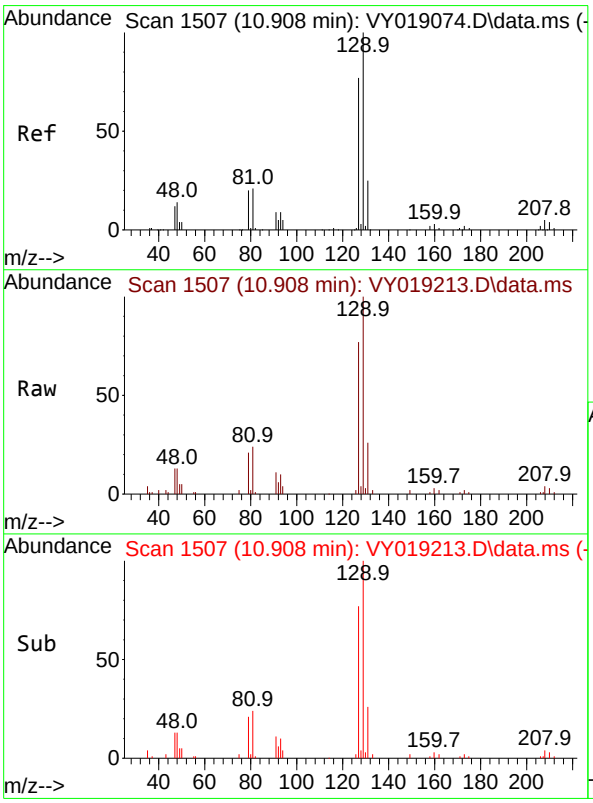
Ion	Ratio	Lower	Upper
43	100		
58	56.5	31.4	94.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

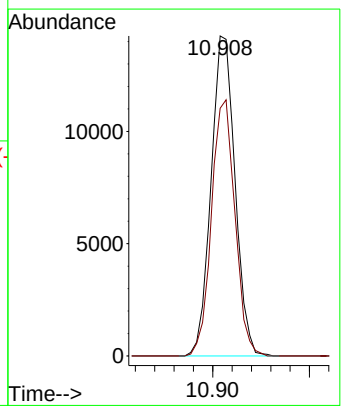


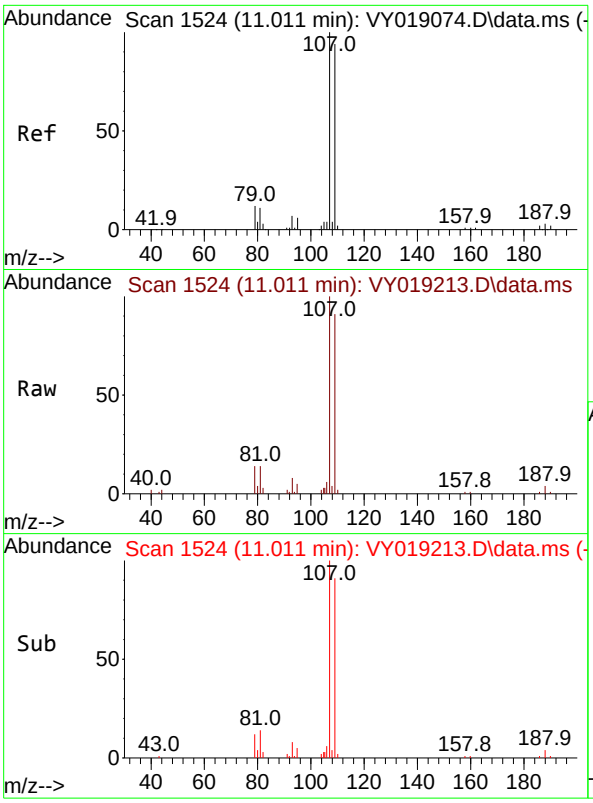


#60
Dibromochloromethane
Concen: 20.025 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:129 Resp: 24500

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.0	117.0

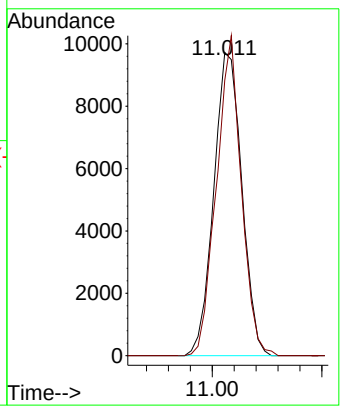




#61
1,2-Dibromoethane
Concen: 19.927 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:107 Resp: 1730

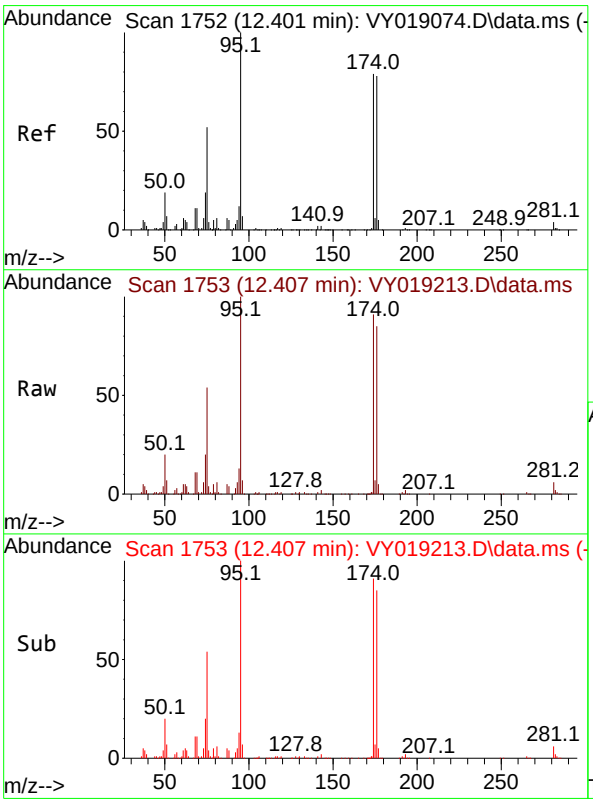
Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.9	113.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

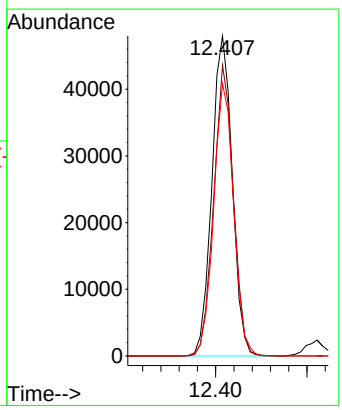
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

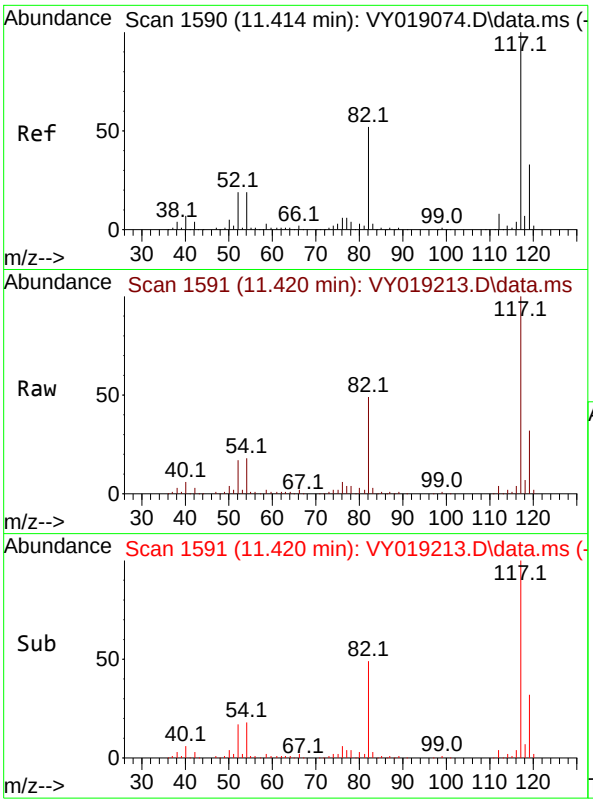


#62
4-Bromofluorobenzene
Concen: 52.778 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 95 Resp: 74237

Ion	Ratio	Lower	Upper
95	100		
174	87.7	0.0	175.6
176	83.7	0.0	171.4

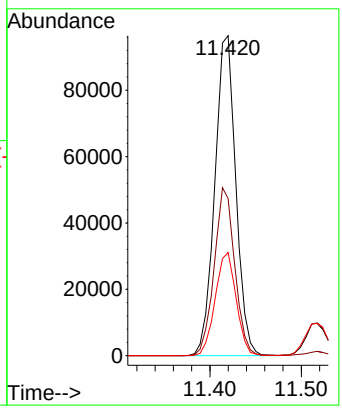




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:117 Resp: 15410

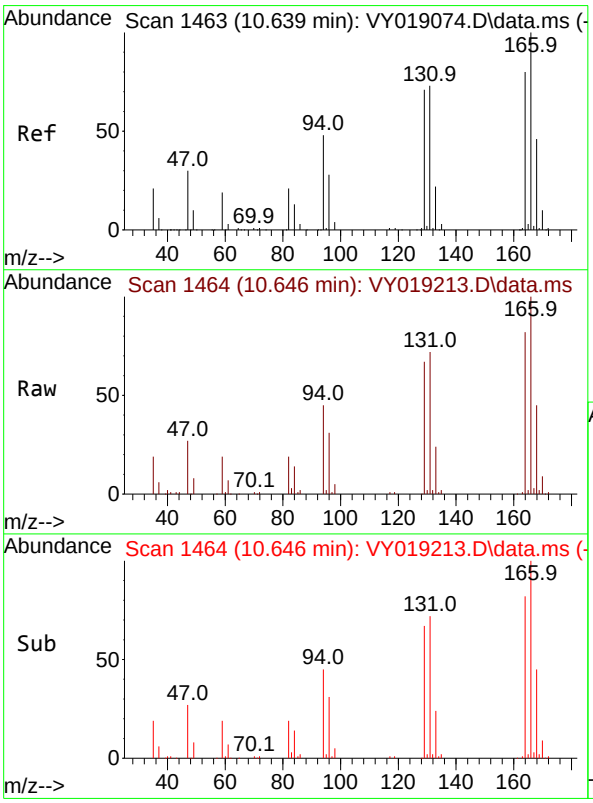
Ion	Ratio	Lower	Upper
117	100		
82	49.1	42.4	63.6
119	32.3	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

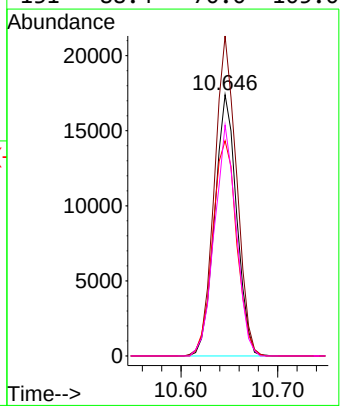
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

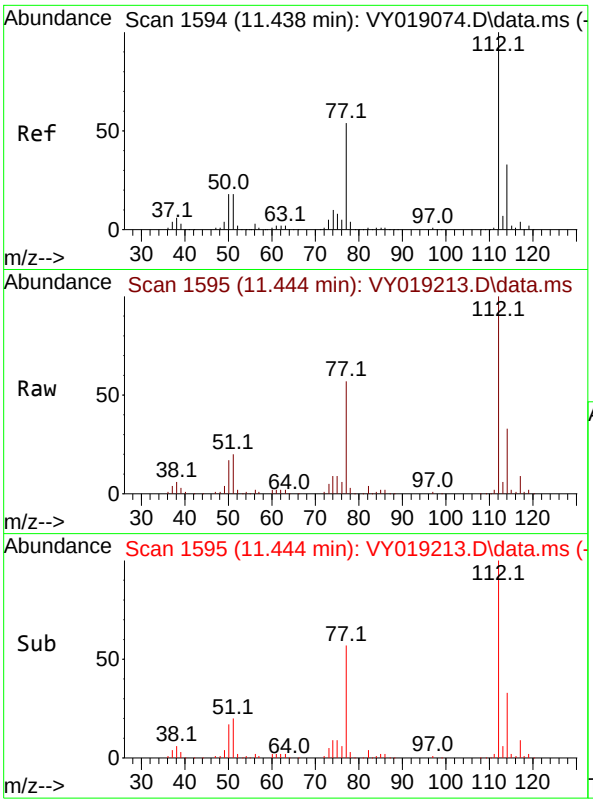


#64
Tetrachloroethene
Concen: 20.340 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:164 Resp: 27398

Ion	Ratio	Lower	Upper
164	100		
166	122.5	102.6	154.0
129	82.4	72.0	108.0
131	88.4	70.0	105.0

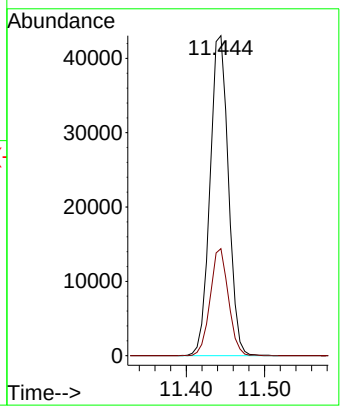




#65
Chlorobenzene
Concen: 19.767 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:112 Resp: 7014

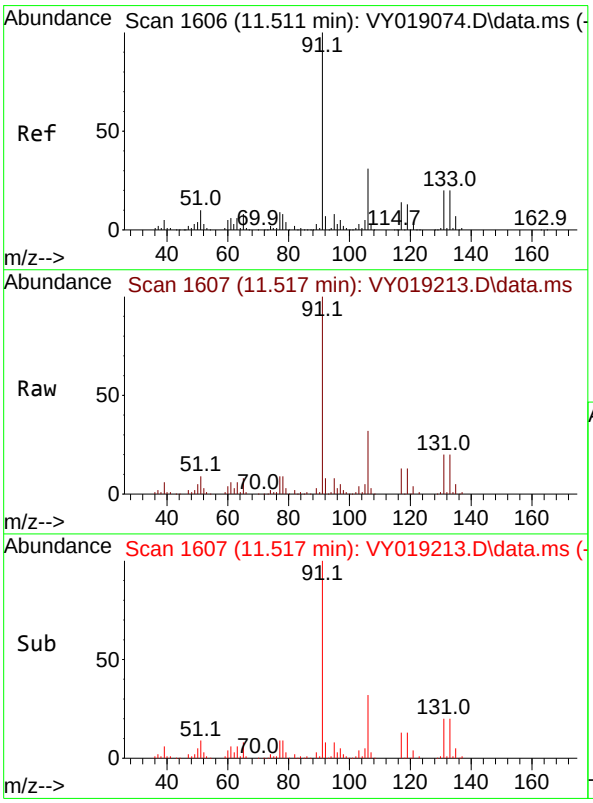
Ion	Ratio	Lower	Upper
112	100		
114	33.4	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

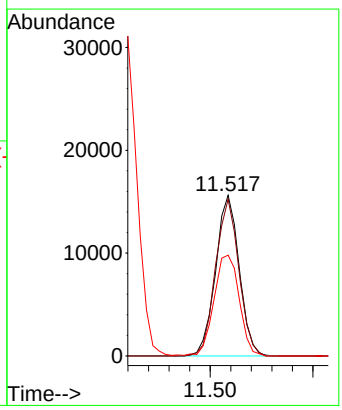
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

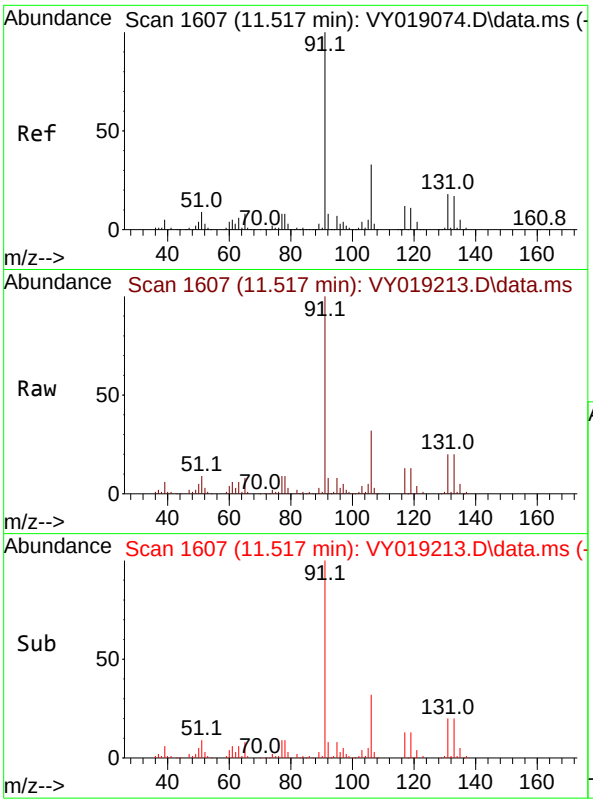


#66
1,1,1,2-Tetrachloroethane
Concen: 19.936 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:131 Resp: 24878

Ion	Ratio	Lower	Upper
131	100		
133	96.4	47.8	143.3
119	67.1	34.1	102.2

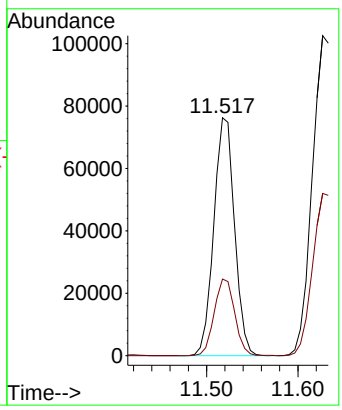




#67
Ethyl Benzene
Concen: 19.532 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 91 Resp: 12029

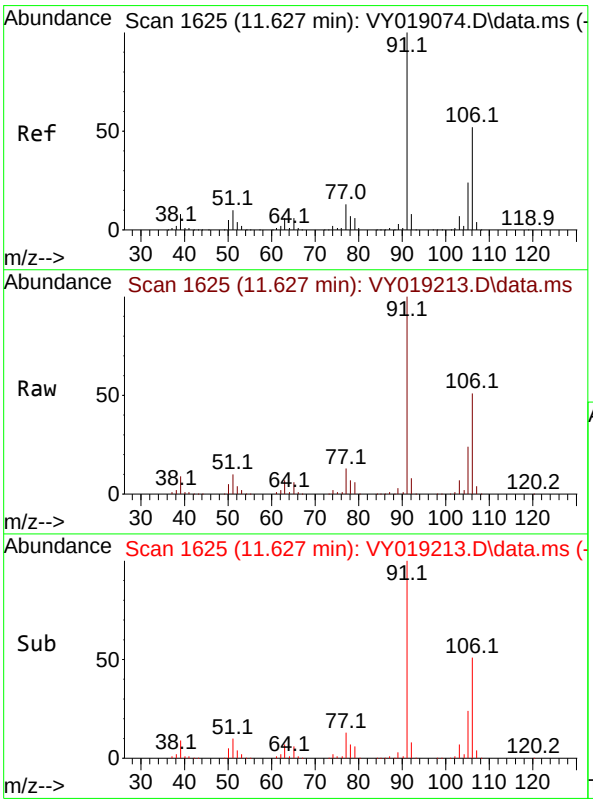
Ion	Ratio	Lower	Upper
91	100		
106	32.2	24.5	36.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

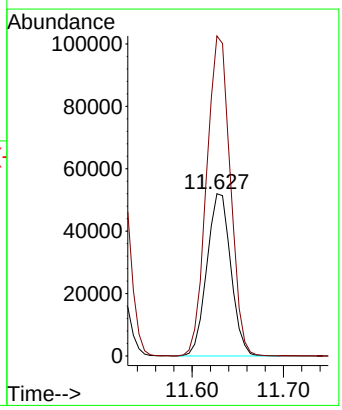
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

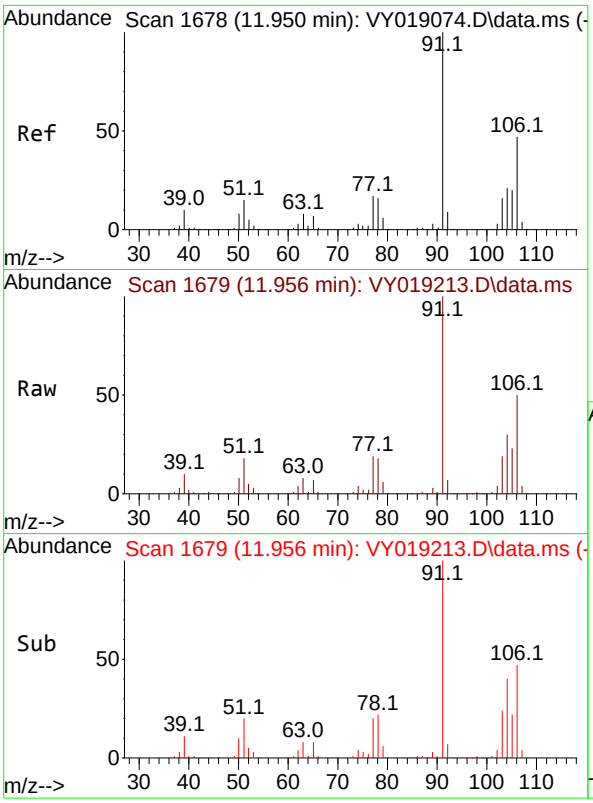


#68
m/p-Xylenes
Concen: 38.771 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:106 Resp: 94748

Ion	Ratio	Lower	Upper
106	100		
91	195.8	156.0	234.0

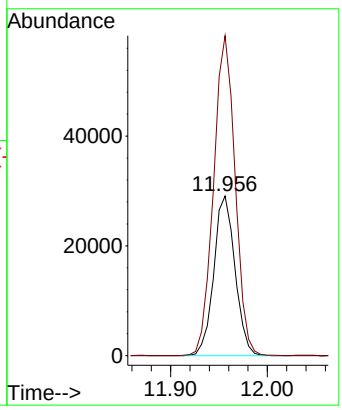




#69
o-Xylene
Concen: 19.537 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:106 Resp: 4421

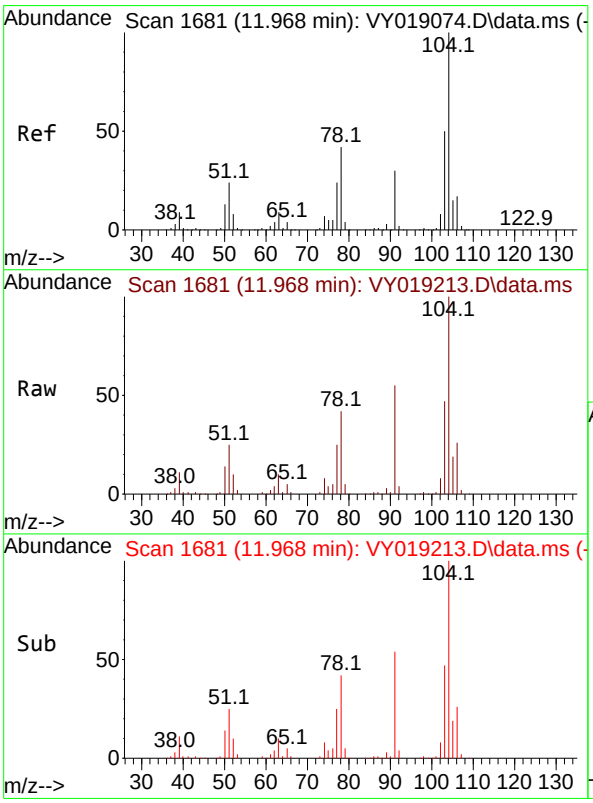
Ion	Ratio	Lower	Upper
106	100		
91	203.9	103.6	310.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

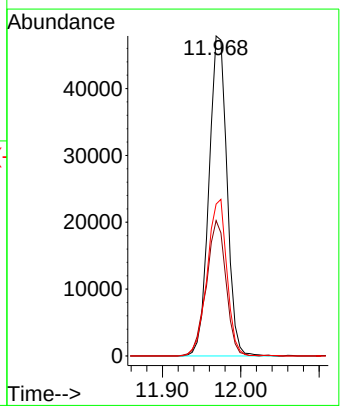
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

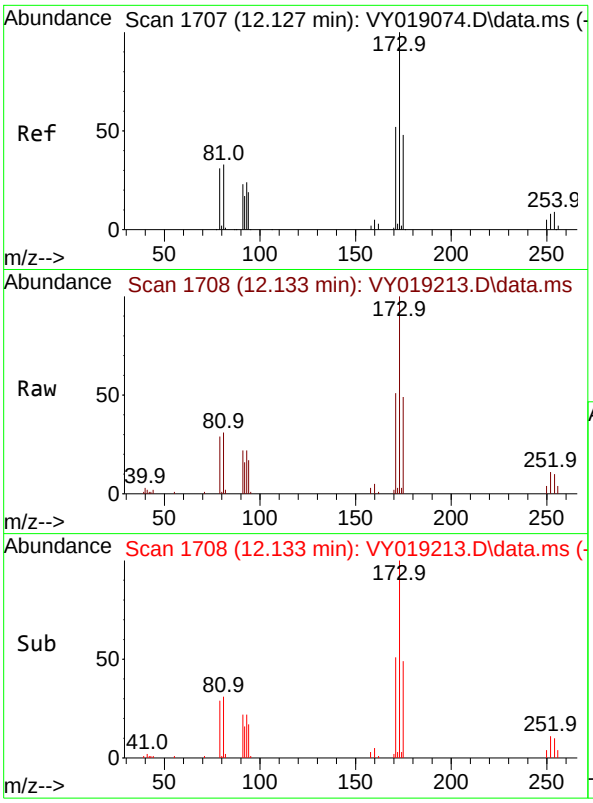


#70
Styrene
Concen: 19.827 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:104 Resp: 76515

Ion	Ratio	Lower	Upper
104	100		
78	46.2	37.0	55.4
103	53.3	44.2	66.2

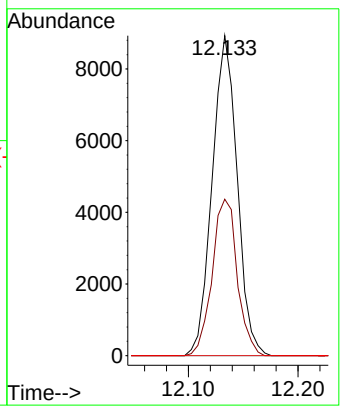




#71
Bromoform
Concen: 19.817 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

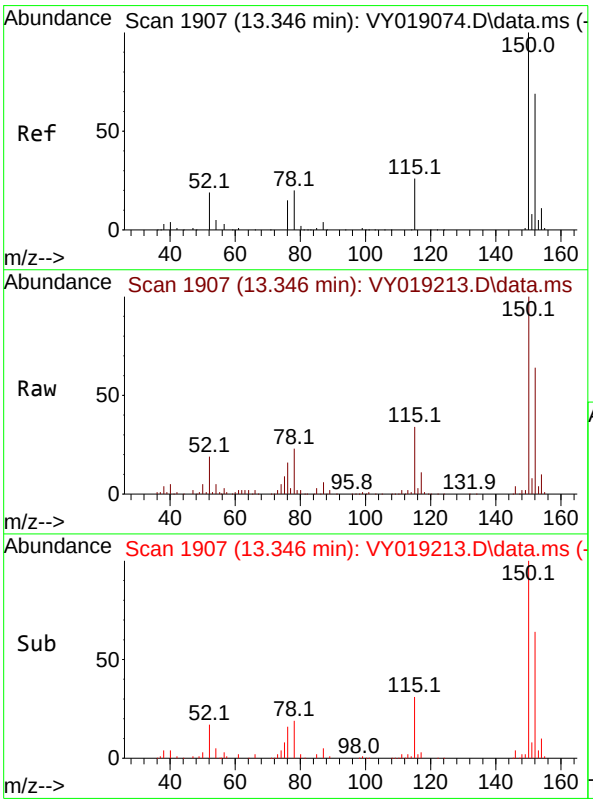
Tgt Ion:173 Resp: 1413

Ion	Ratio	Lower	Upper
173	100		
175	49.0	25.1	75.3
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

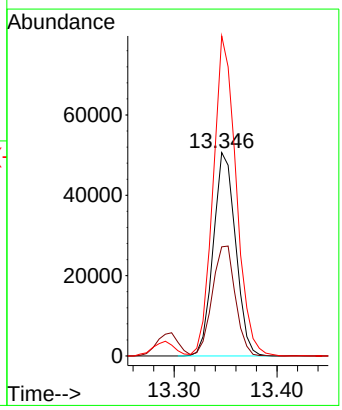
Manual Integrations
APPROVED
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

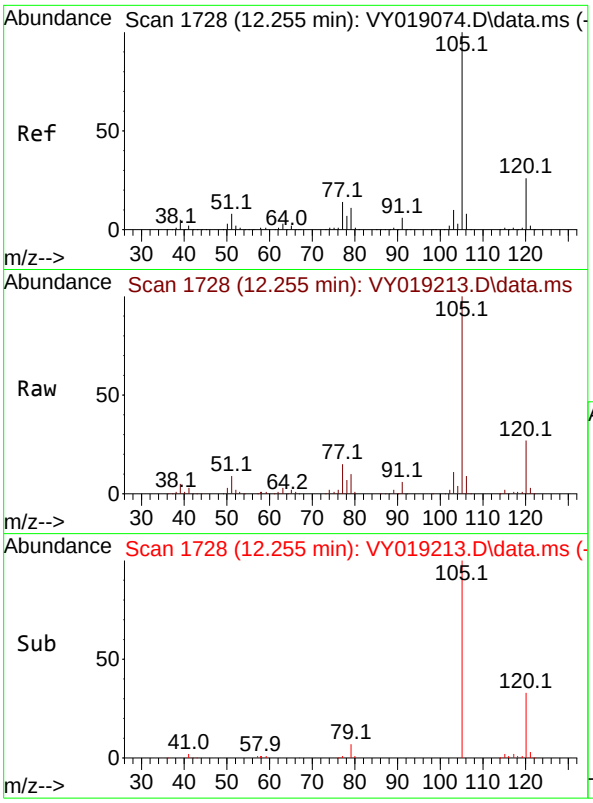


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:152 Resp: 76163

Ion	Ratio	Lower	Upper
152	100		
115	56.1	28.2	84.7
150	162.3	0.0	345.6

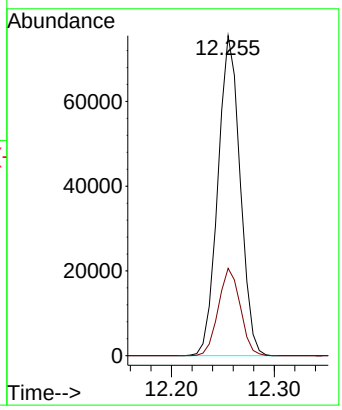




#73
Isopropylbenzene
Concen: 19.388 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:105 Resp: 11317

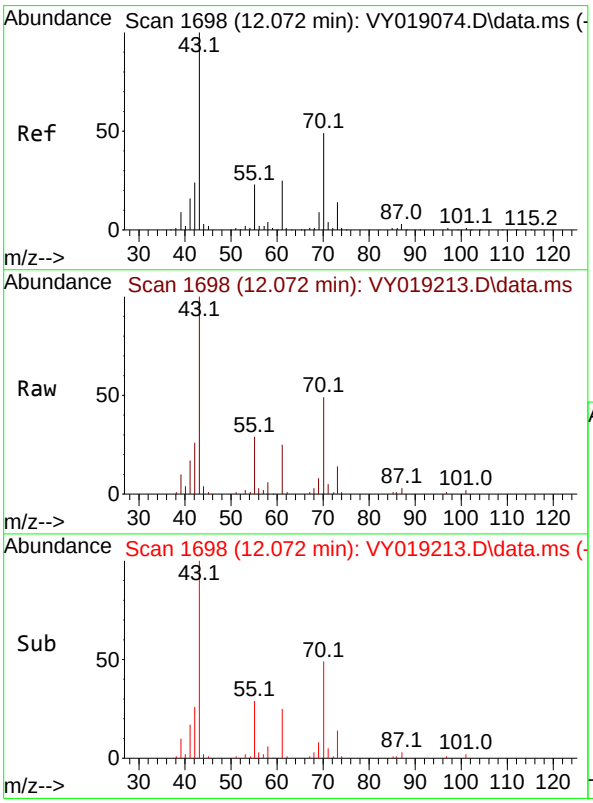
Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

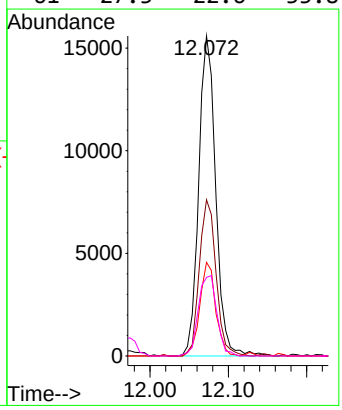
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

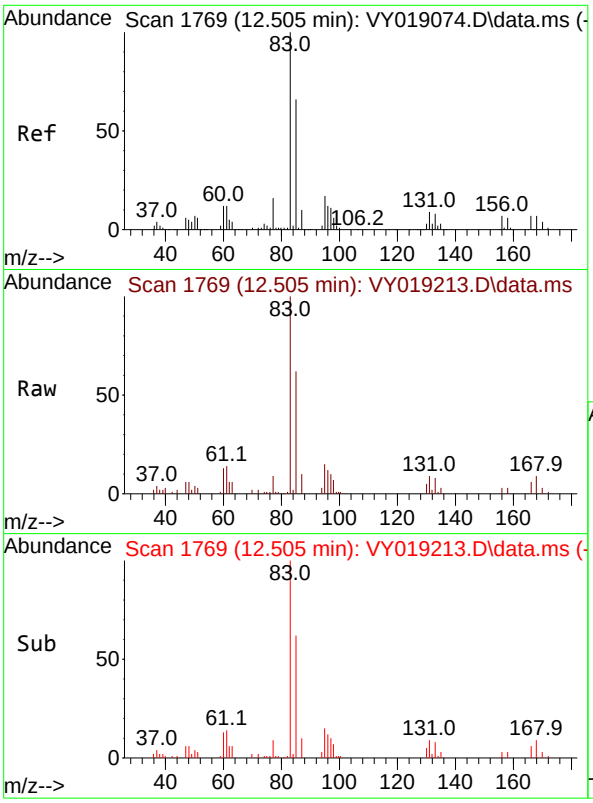


#74
N-amyl acetate
Concen: 18.475 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 43 Resp: 23517

Ion	Ratio	Lower	Upper
43	100		
70	47.9	41.4	62.2
55	27.3	23.3	34.9
61	27.3	22.6	33.8

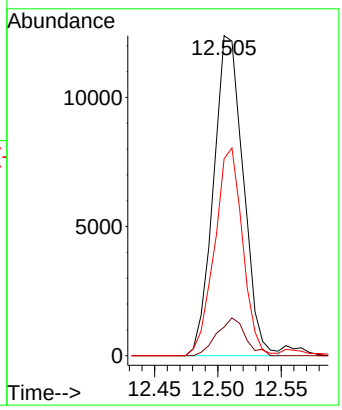




#75
1,1,2,2-Tetrachloroethane
Concen: 19.480 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 83 Resp: 2024

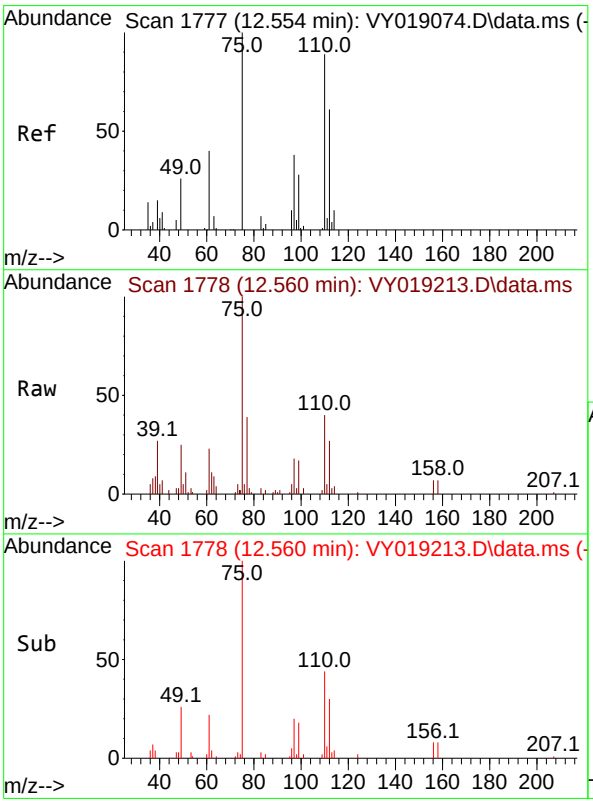
Ion	Ratio	Lower	Upper
83	100		
131	11.3	5.0	14.9
85	61.2	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

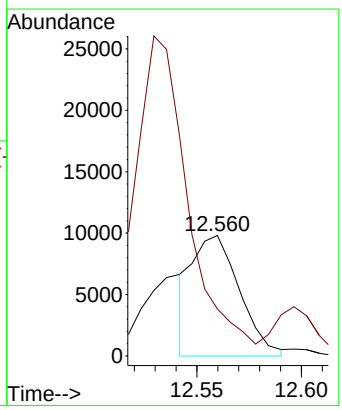
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

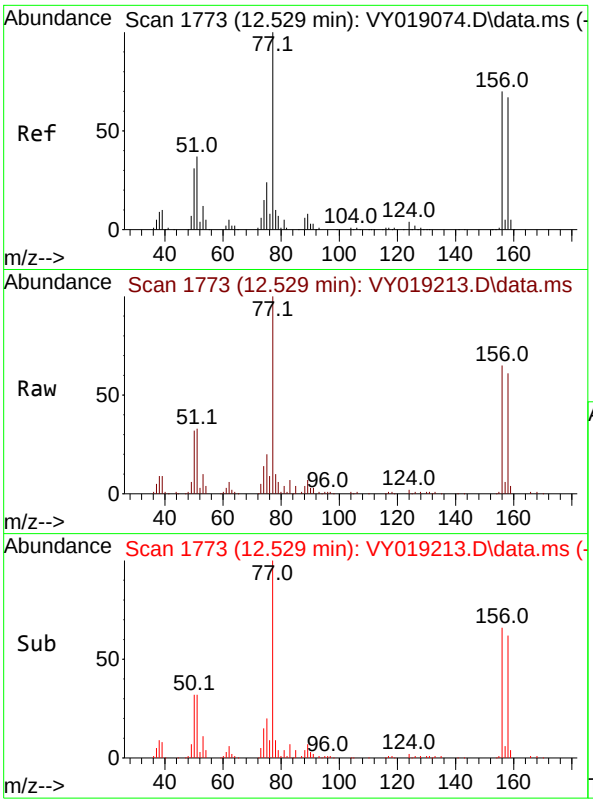


#76
1,2,3-Trichloropropane
Concen: 20.643 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 75 Resp: 15505

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

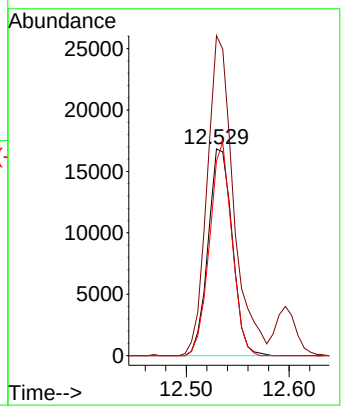




#77
Bromobenzene
Concen: 19.599 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:156 Resp: 2747

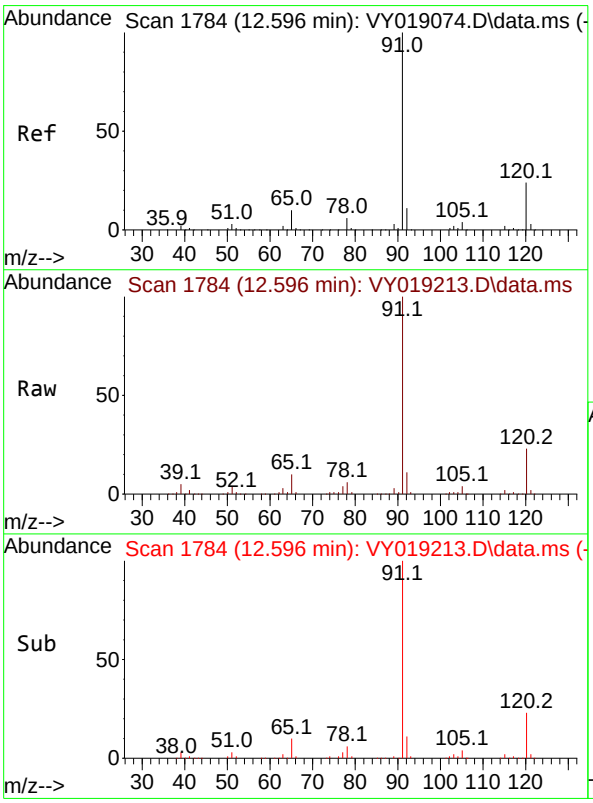
Ion	Ratio	Lower	Upper
156	100		
77	169.3	87.1	261.3
158	95.6	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

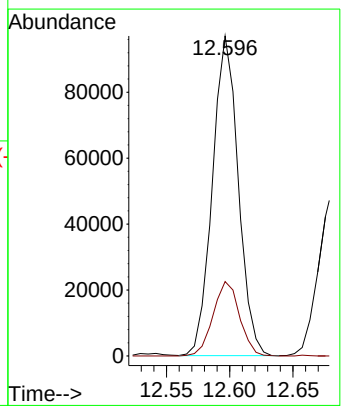
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

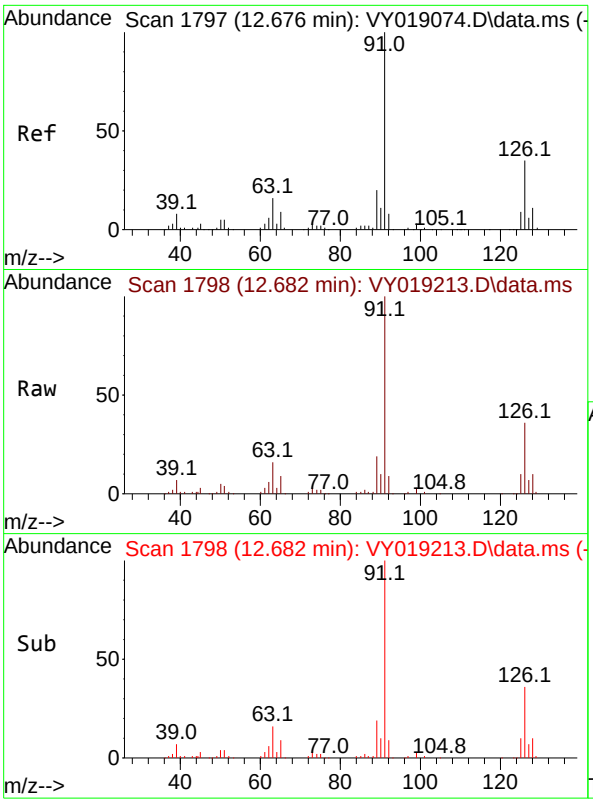


#78
n-propylbenzene
Concen: 19.738 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 91 Resp: 137741

Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.5	34.4

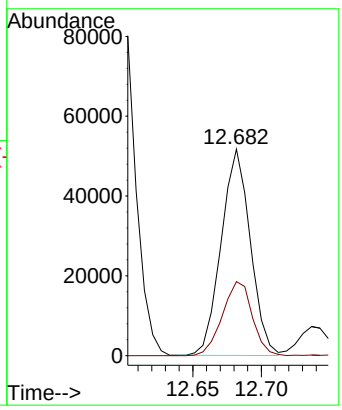




#79
2-Chlorotoluene
Concen: 19.545 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 91 Resp: 7646

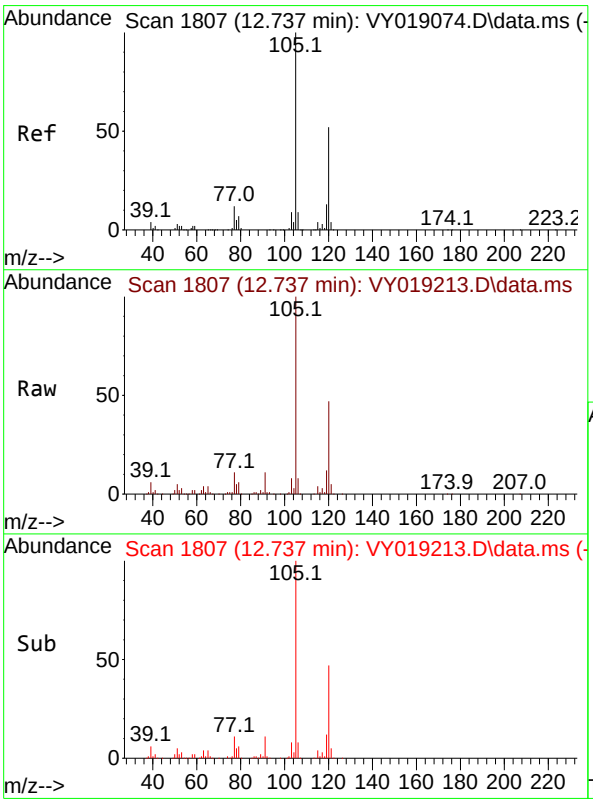
Ion	Ratio	Lower	Upper
91	100		
126	36.8	17.8	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

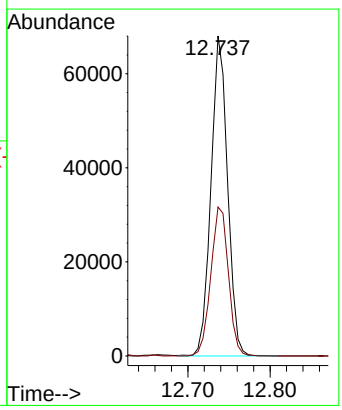
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

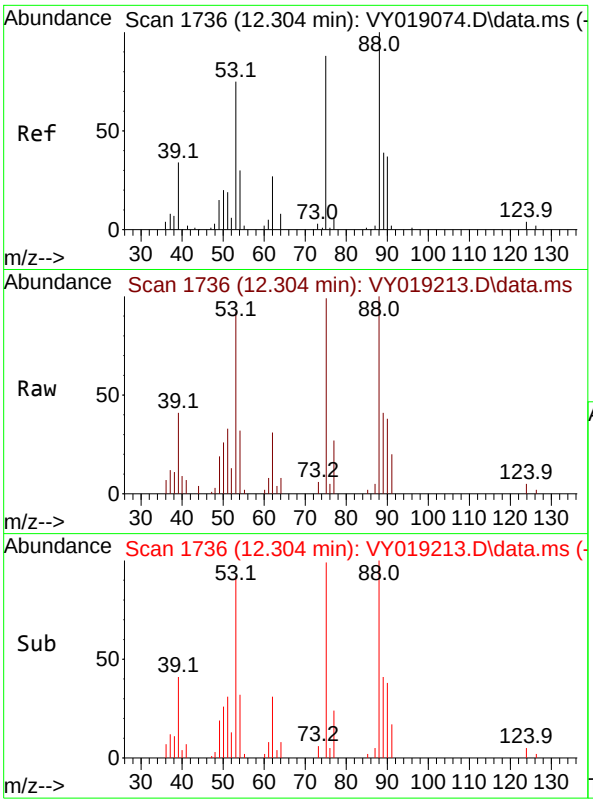


#80
1,3,5-Trimethylbenzene
Concen: 20.042 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:105 Resp: 95309

Ion	Ratio	Lower	Upper
105	100		
120	49.3	25.1	75.2





#81
trans-1,4-Dichloro-2-butene
Concen: 18.505 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

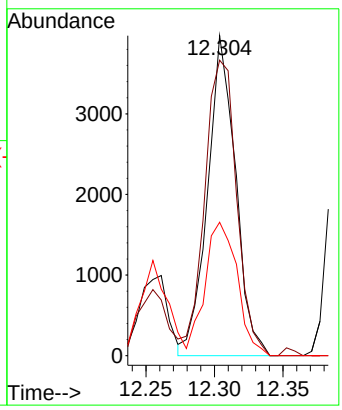
Tgt Ion: 75 Resp: 562

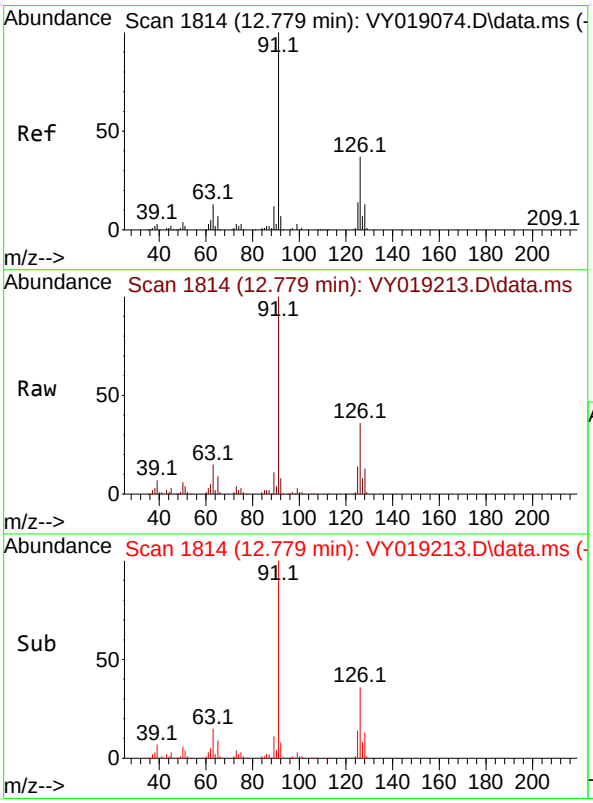
Ion	Ratio	Lower	Upper
75	100		
53	105.5	66.8	100.2
89	48.2	35.8	53.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

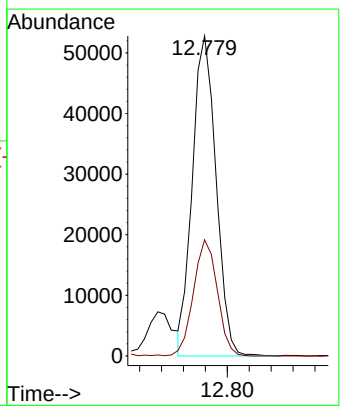


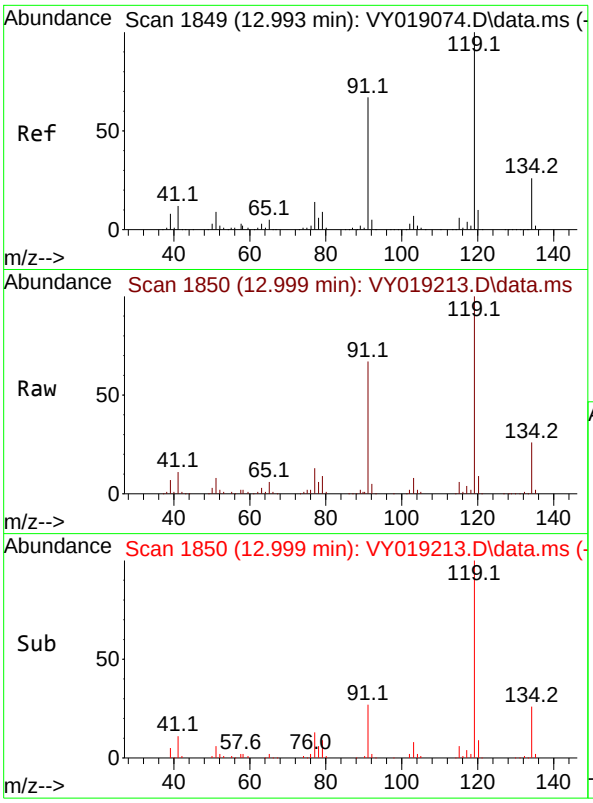


#82
4-Chlorotoluene
Concen: 19.483 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 91 Resp: 79304

Ion	Ratio	Lower	Upper
91	100		
126	36.5	17.6	52.9

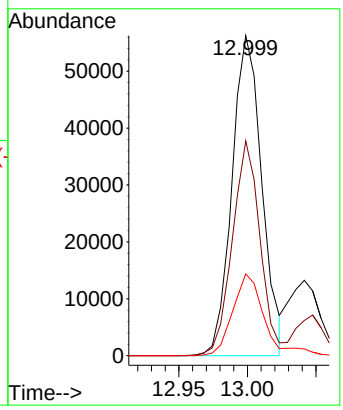




#83
tert-Butylbenzene
Concen: 19.440 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:119 Resp: 8537

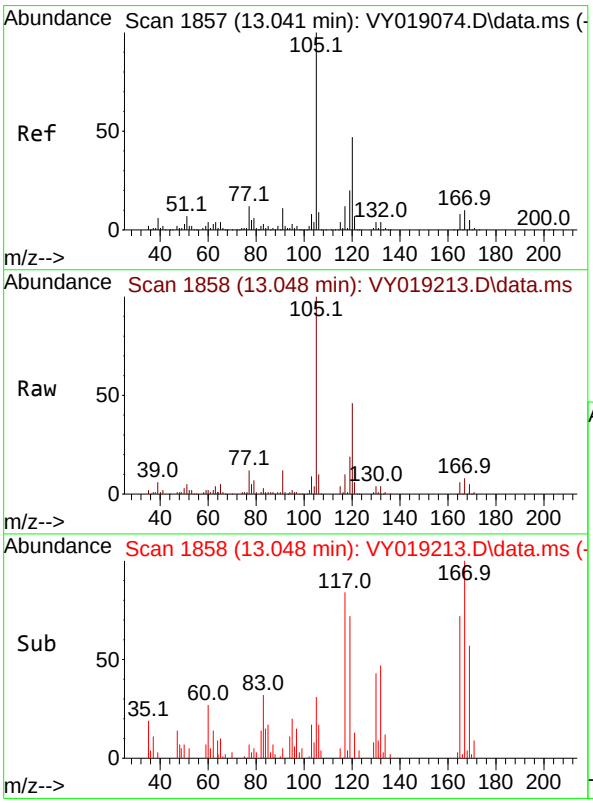
Ion	Ratio	Lower	Upper
119	100		
91	62.0	31.3	93.8
134	27.0	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

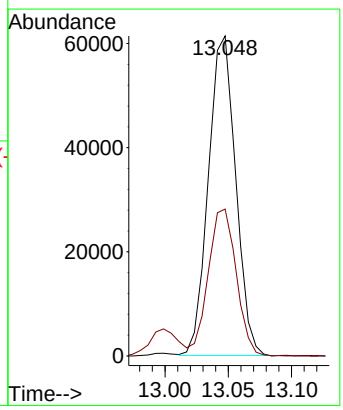
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

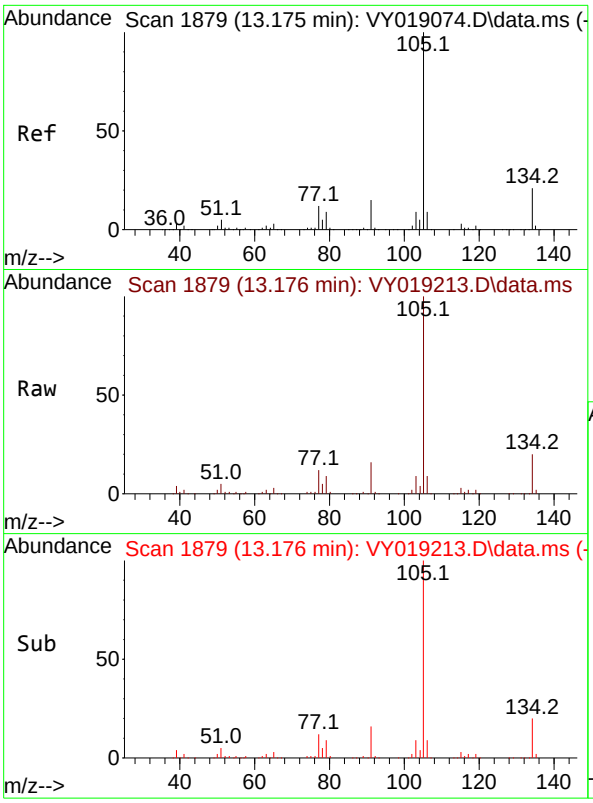


#84
1,2,4-Trimethylbenzene
Concen: 19.427 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:105 Resp: 92075

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.2	69.6

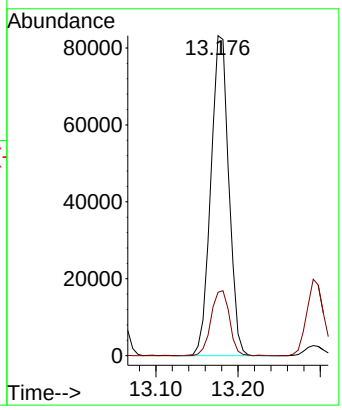




#85
sec-Butylbenzene
Concen: 19.748 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:105 Resp: 12638

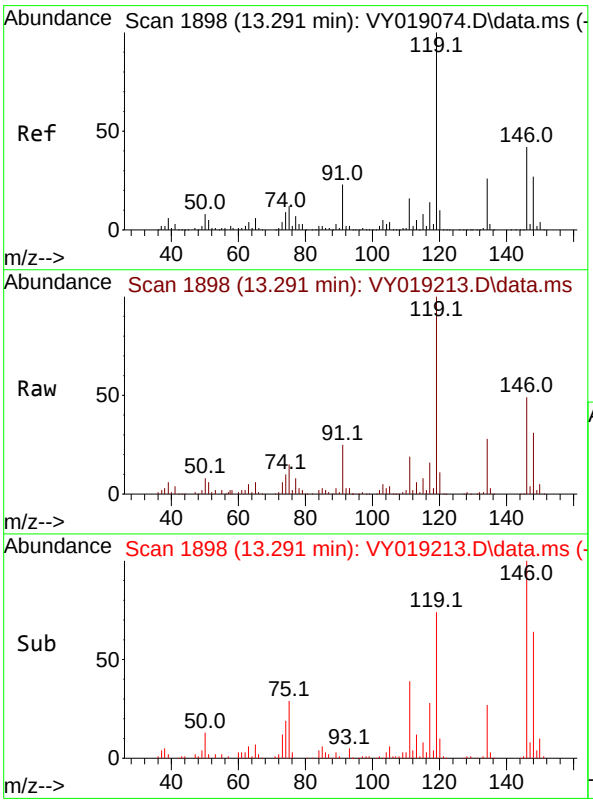
Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

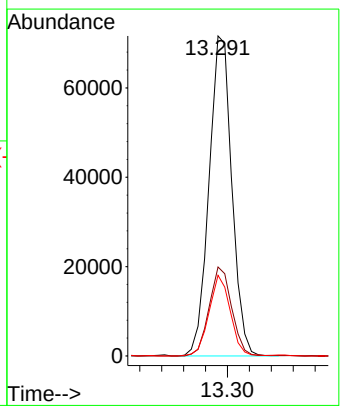
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

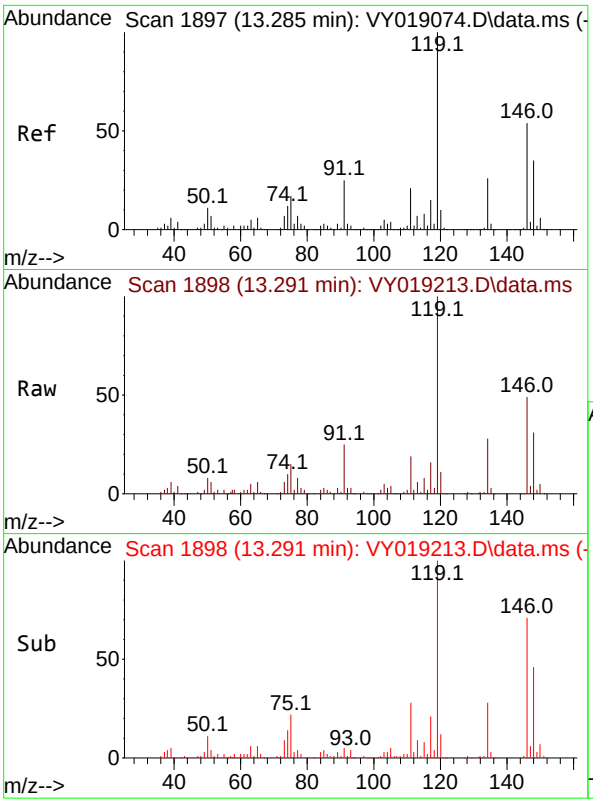


#86
p-Isopropyltoluene
Concen: 19.706 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:119 Resp: 103590

Ion	Ratio	Lower	Upper
119	100		
134	27.4	13.1	39.3
91	23.6	10.7	32.1

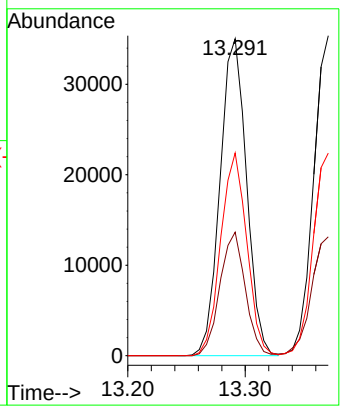




#87
1,3-Dichlorobenzene
Concen: 19.854 ug/l
RT: 13.291 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:146 Resp: 5489

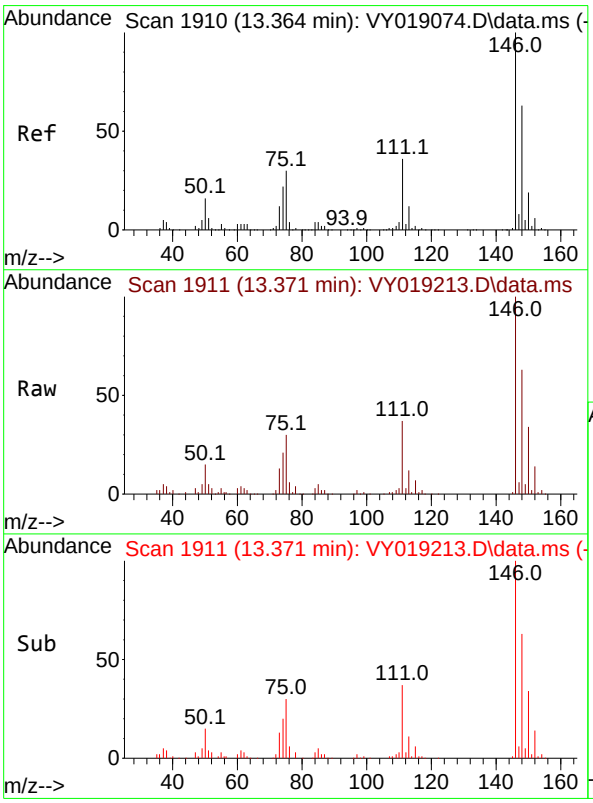
Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.0	57.0
148	63.1	31.7	95.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

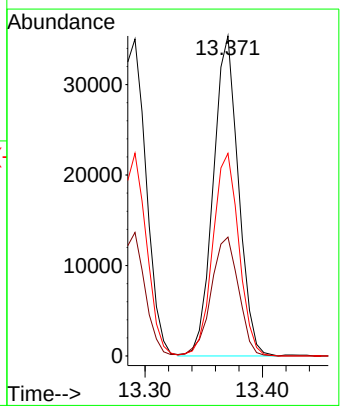
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

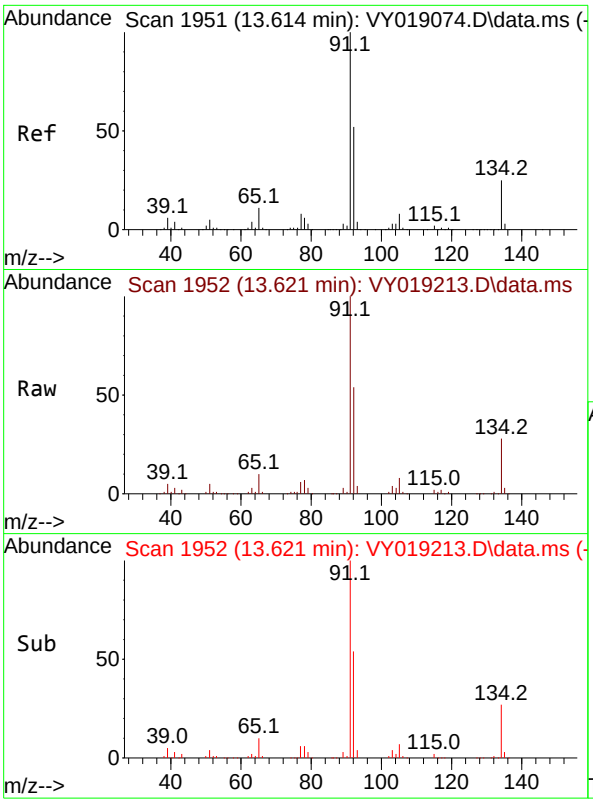


#88
1,4-Dichlorobenzene
Concen: 19.190 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:146 Resp: 52739

Ion	Ratio	Lower	Upper
146	100		
111	40.6	18.4	55.4
148	65.6	32.4	97.2

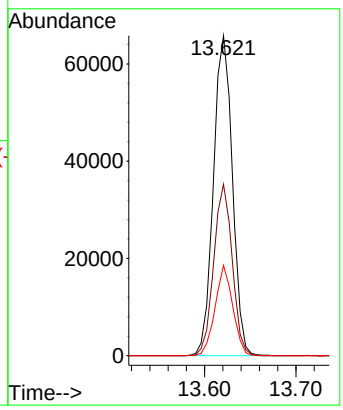




#89
n-Butylbenzene
Concen: 19.784 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 91 Resp: 9481

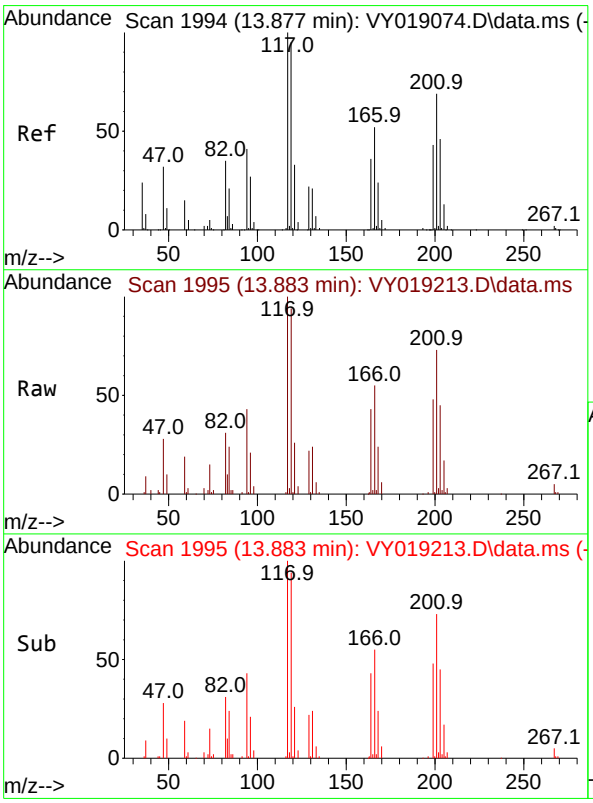
Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.6	79.7
134	26.4	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

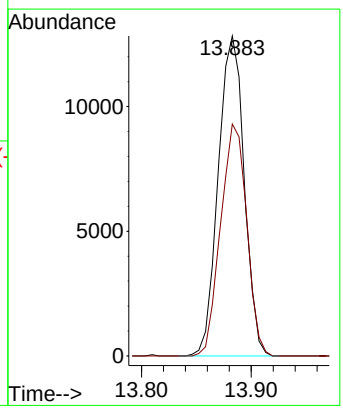
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

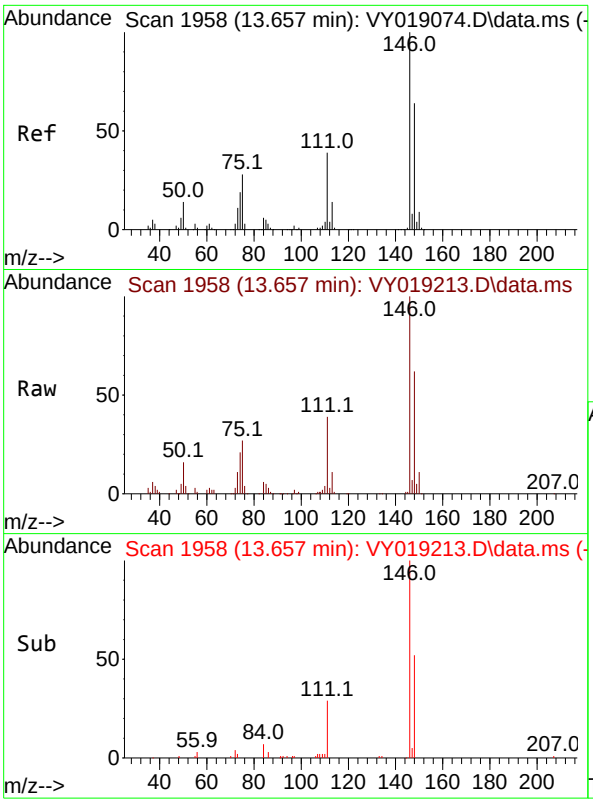


#90
Hexachloroethane
Concen: 20.358 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:117 Resp: 21094

Ion	Ratio	Lower	Upper
117	100		
201	72.9	37.4	112.2

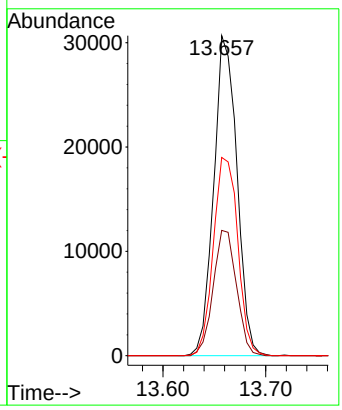




#91
1,2-Dichlorobenzene
Concen: 19.753 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

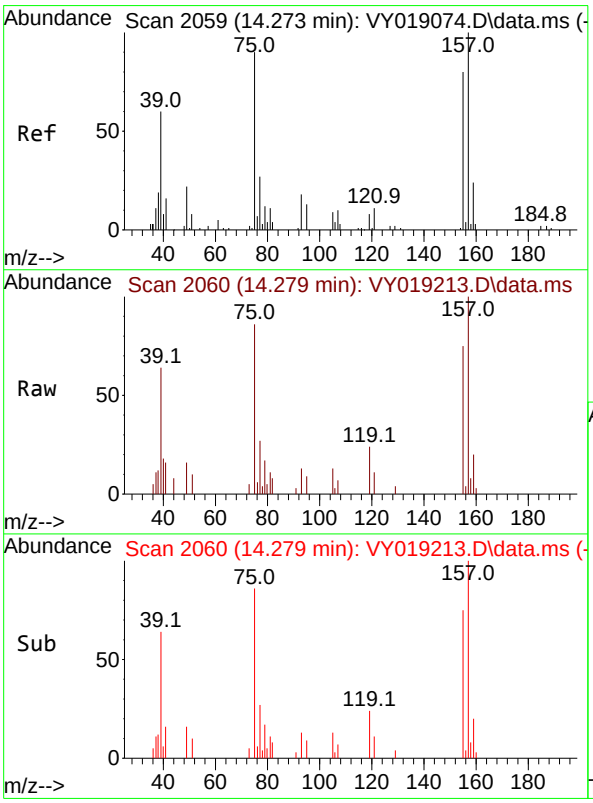
Tgt Ion:146 Resp: 4803

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.9	59.7
148	65.2	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

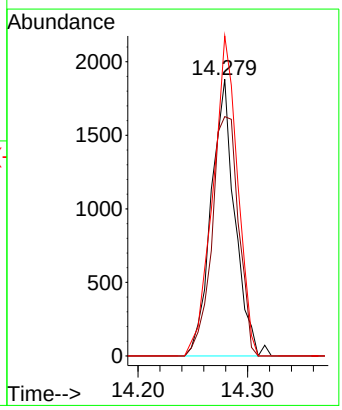
Manual Integrations
APPROVED
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

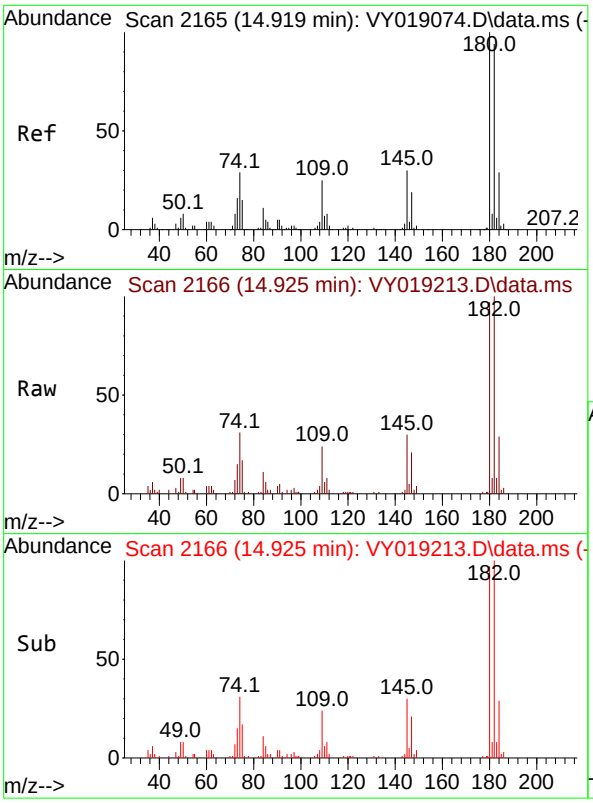


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.524 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion: 75 Resp: 2832

Ion	Ratio	Lower	Upper
75	100		
155	97.4	48.6	145.8
157	120.3	62.7	188.2

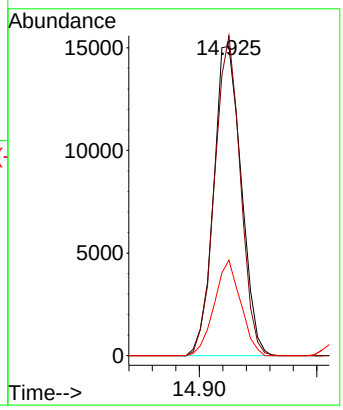




#93
1,2,4-Trichlorobenzene
Concen: 18.006 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:180 Resp: 2469

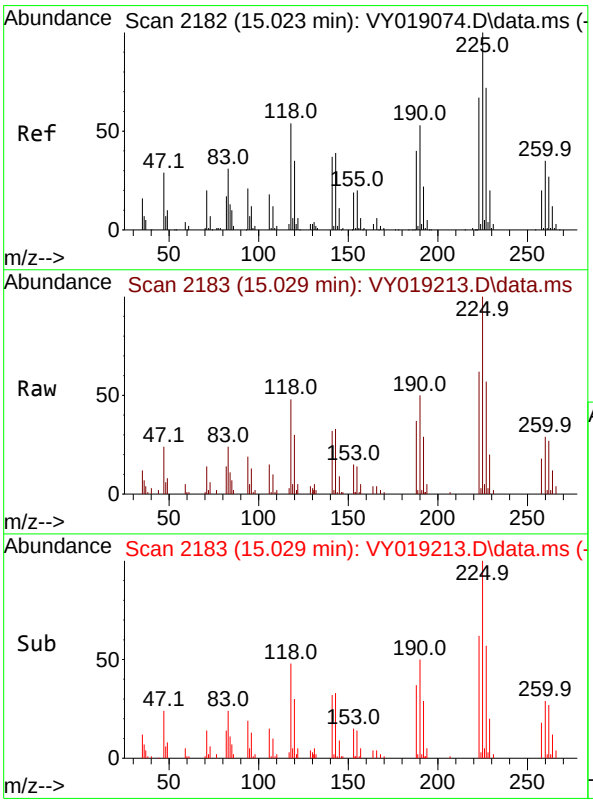
Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.9	143.8
145	29.4	14.2	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

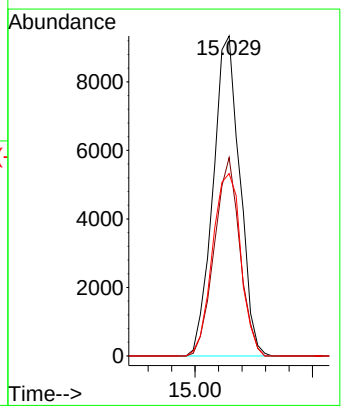
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

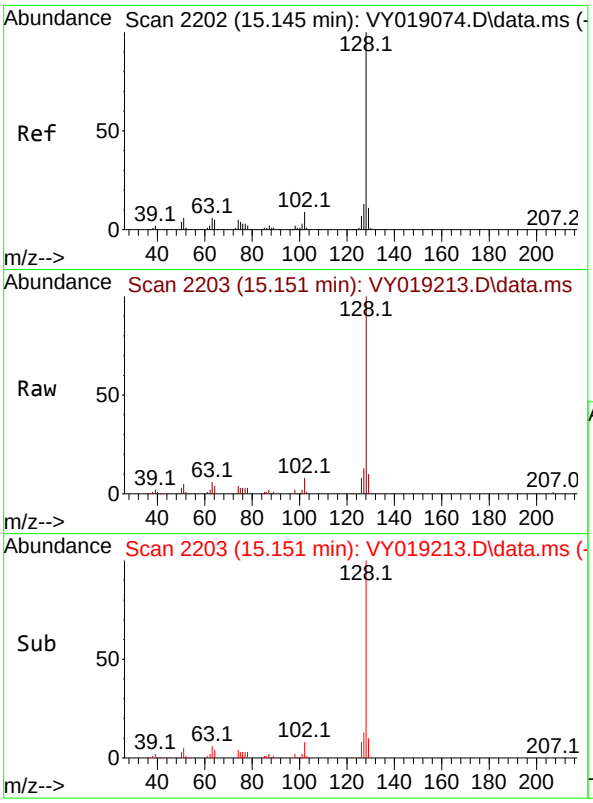


#94
Hexachlorobutadiene
Concen: 20.645 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:225 Resp: 14746

Ion	Ratio	Lower	Upper
225	100		
223	59.2	30.4	91.2
227	60.6	31.9	95.9

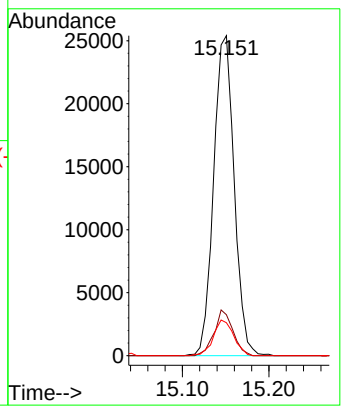




#95
Naphthalene
Concen: 17.102 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:128 Resp: 4185

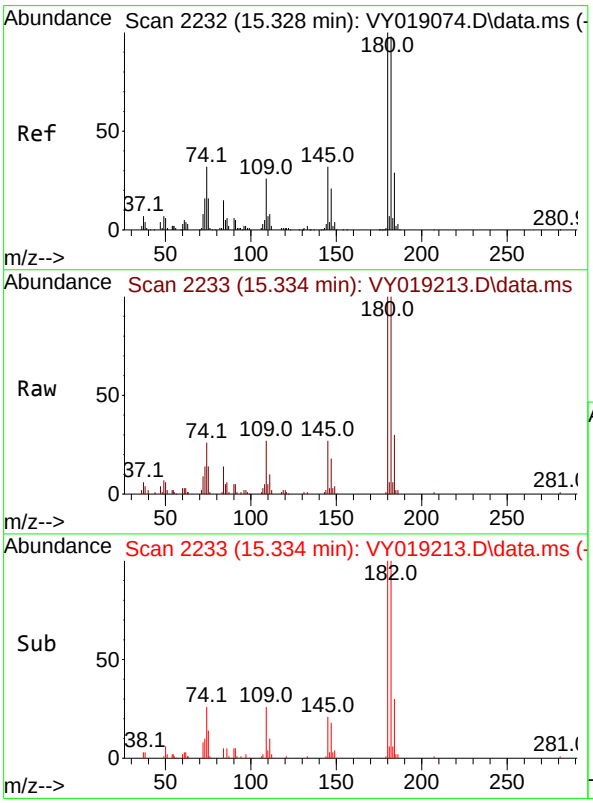
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	11.1	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0822SBS01

Manual Integrations
APPROVED

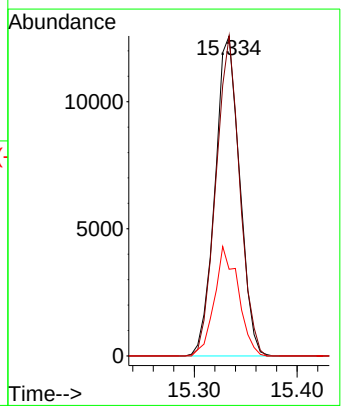
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024



#96
1,2,3-Trichlorobenzene
Concen: 18.055 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY019213.D
Acq: 22 Aug 2024 12:15

Tgt Ion:180 Resp: 20882

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.6	142.9
145	33.2	15.4	46.1



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:	VY0821SBSD02	SDG No.:	P3671
Lab Sample ID:	VY0821SBSD02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019194.D	1		08/22/24 02:58	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.2		1.70	5.00	ug/Kg
74-87-3	Chloromethane	17.8		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.1		0.77	5.00	ug/Kg
74-83-9	Bromomethane	17.5		1.00	5.00	ug/Kg
75-00-3	Chloroethane	16.3		1.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.4		0.78	5.00	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.6		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.0		0.67	5.00	ug/Kg
75-09-2	Methylene Chloride	19.0		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.7		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.1		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.4		0.69	5.00	ug/Kg
78-93-3	2-Butanone	100		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.4		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.61	5.00	ug/Kg
67-66-3	Chloroform	20.7		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.9		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.8		0.87	5.00	ug/Kg
71-43-2	Benzene	19.7		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.6		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.0		0.75	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.7		0.56	5.00	ug/Kg
108-88-3	Toluene	19.5		0.67	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.2		0.84	5.00	ug/Kg
124-48-1	Dibromochloromethane	19.5		0.65	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.3		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	18.9		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.9		0.62	5.00	ug/Kg

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:	VY0821SBSD02	SDG No.:	P3671
Lab Sample ID:	VY0821SBSD02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group5
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019194.D	1		08/22/24 02:58	VY082124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
179601-23-1	m/p-Xylenes	36.8		1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	55.4		2.10	15.0	ug/Kg
95-47-6	o-Xylene	18.6		0.70	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.4		0.67	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.2		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.4		0.59	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		70 (54) - 130 (147)	96%	SPK: 50
2037-26-5	Toluene-d8	47.4		70 (58) - 130 (134)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.9		70 (29) - 130 (146)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	127000	7.701			
540-36-3	1,4-Difluorobenzene	211000	8.609			
3114-55-4	Chlorobenzene-d5	183000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	84700	13.353			

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_Y\Data\VY082124\
Data File : VY019194.D
Acq On : 22 Aug 2024 02:58
Operator : SY/MD
Sample : VY0821SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Aug 22 03:48:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.701	168	127304	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.609	114	210956	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.420	117	183381	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	84746	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.055	65	66065	51.770	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.540%				
35) Dibromofluoromethane	7.628	113	66102	47.922	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.840%				
50) Toluene-d8	10.103	98	235036	47.350	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.700%				
62) 4-Bromofluorobenzene	12.408	95	79327	46.879	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 93.760%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	18895	20.230	ug/l		95
3) Chloromethane	2.068	50	29931	17.779	ug/l		98
4) Vinyl Chloride	2.202	62	35616	17.127	ug/l		97
5) Bromomethane	2.580	94	27080	17.483	ug/l		100
6) Chloroethane	2.726	64	23135	16.287	ug/l		94
7) Trichlorofluoromethane	3.049	101	54431	17.313	ug/l		98
8) Diethyl Ether	3.446	74	13654	20.120	ug/l		92
9) 1,1,2-Trichlorotrifluo...	3.812	101	26793	19.169	ug/l		98
10) Methyl Iodide	4.001	142	27113	19.790	ug/l		93
11) Tert butyl alcohol	4.842	59	19415	164.345	ug/l	#	97
12) 1,1-Dichloroethene	3.787	96	24601	19.373	ug/l		89
13) Acrolein	3.647	56	8487	74.736	ug/l		96
14) Allyl chloride	4.379	41	35161	20.826	ug/l		90
15) Acrylonitrile	5.043	53	29632	106.714	ug/l		97
16) Acetone	3.854	43	24462	103.363	ug/l	#	85
17) Carbon Disulfide	4.098	76	66689	18.619	ug/l	#	94
18) Methyl Acetate	4.379	43	17261	23.764	ug/l		91
19) Methyl tert-butyl Ether	5.110	73	64687	21.011	ug/l		100
20) Methylene Chloride	4.610	84	37291	19.040	ug/l		96
21) trans-1,2-Dichloroethene	5.110	96	27907	19.671	ug/l		97
22) Diisopropyl ether	6.012	45	80689	20.877	ug/l		91
23) Vinyl Acetate	5.951	43	269161	87.962	ug/l		99
24) 1,1-Dichloroethane	5.909	63	47418	20.061	ug/l		97
25) 2-Butanone	6.884	43	39038	102.426	ug/l		90
26) 2,2-Dichloropropane	6.872	77	35419	18.505	ug/l		98
27) cis-1,2-Dichloroethene	6.878	96	34195	20.481	ug/l		98
28) Bromochloromethane	7.238	49	19733	19.902	ug/l		95
29) Tetrahydrofuran	7.250	42	25945	105.896	ug/l		92
30) Chloroform	7.415	83	54539	20.707	ug/l		100
31) Cyclohexane	7.695	56	38546	18.413	ug/l		93
32) 1,1,1-Trichloroethane	7.610	97	48343	20.886	ug/l		97
36) 1,1-Dichloropropene	7.829	75	36374	19.204	ug/l		99
37) Ethyl Acetate	6.970	43	17919	21.353	ug/l		98
38) Carbon Tetrachloride	7.811	117	44740	20.382	ug/l		96
39) Methylcyclohexane	9.103	83	43215	17.779	ug/l		96
40) Benzene	8.073	78	114211	19.661	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019194.D
Acq On : 22 Aug 2024 02:58
Operator : SY/MD
Sample : VY0821SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Aug 22 03:48:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	8036m	17.545	ug/l		
42) 1,2-Dichloroethane	8.152	62	33896	21.608	ug/l		95
43) Isopropyl Acetate	8.189	43	34701	20.447	ug/l	#	79
44) Trichloroethene	8.859	130	30859	19.038	ug/l		93
45) 1,2-Dichloropropane	9.140	63	25797	19.931	ug/l		97
46) Dibromomethane	9.225	93	16461	19.609	ug/l		99
47) Bromodichloromethane	9.420	83	40649	19.737	ug/l		95
48) Methyl methacrylate	9.219	41	15834	20.934	ug/l		85
49) 1,4-Dioxane	9.219	88	3670	360.901	ug/l	#	84
51) 4-Methyl-2-Pentanone	9.999	43	88395	98.132	ug/l		93
52) Toluene	10.170	92	74398	19.511	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	33487	19.601	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	36096	17.568	ug/l	#	89
55) 1,1,2-Trichloroethane	10.573	97	21847	20.216	ug/l		95
56) Ethyl methacrylate	10.438	69	27873	19.705	ug/l	#	82
57) 1,3-Dichloropropane	10.719	76	35274	20.023	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	60305	89.868	ug/l		97
59) 2-Hexanone	10.762	43	60432	97.652	ug/l		91
60) Dibromochloromethane	10.914	129	28694	19.495	ug/l		98
61) 1,2-Dibromoethane	11.018	107	20204	19.343	ug/l		98
64) Tetrachloroethene	10.646	164	32540	20.301	ug/l		96
65) Chlorobenzene	11.444	112	79820	18.903	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	29005	19.533	ug/l		96
67) Ethyl Benzene	11.517	91	138792	18.937	ug/l		98
68) m/p-Xylenes	11.633	106	107110	36.832	ug/l		96
69) o-Xylene	11.956	106	50152	18.623	ug/l		97
70) Styrene	11.975	104	88410	19.252	ug/l		97
71) Bromoform	12.133	173	15794	18.606	ug/l	#	97
73) Isopropylbenzene	12.255	105	132300	20.368	ug/l		99
74) N-amyl acetate	12.072	43	28932	20.427	ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.511	83	23036	19.921	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	16043m	19.196	ug/l		
77) Bromobenzene	12.536	156	31505	20.197	ug/l		97
78) n-propylbenzene	12.597	91	156425	20.145	ug/l		100
79) 2-Chlorotoluene	12.682	91	87919	20.196	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	106489	20.125	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	6223	18.389	ug/l	#	83
82) 4-Chlorotoluene	12.779	91	90955	20.082	ug/l		98
83) tert-Butylbenzene	12.999	119	98837	20.226	ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	105620	20.027	ug/l		99
85) sec-Butylbenzene	13.176	105	141055	19.808	ug/l		99
86) p-Isopropyltoluene	13.292	119	116166	19.860	ug/l		98
87) 1,3-Dichlorobenzene	13.292	146	59681	19.400	ug/l		98
88) 1,4-Dichlorobenzene	13.371	146	58865	19.249	ug/l		98
89) n-Butylbenzene	13.621	91	101155	18.969	ug/l		99
90) Hexachloroethane	13.883	117	22976	19.929	ug/l		99
91) 1,2-Dichlorobenzene	13.663	146	52395	19.365	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	3443	20.239	ug/l		93
93) 1,2,4-Trichlorobenzene	14.925	180	26646	17.463	ug/l		99
94) Hexachlorobutadiene	15.029	225	16754	21.081	ug/l		98
95) Naphthalene	15.145	128	48934	17.970	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	24017	18.662	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019194.D
Acq On : 22 Aug 2024 02:58
Operator : SY/MD
Sample : VY0821SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Aug 22 03:48:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

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

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

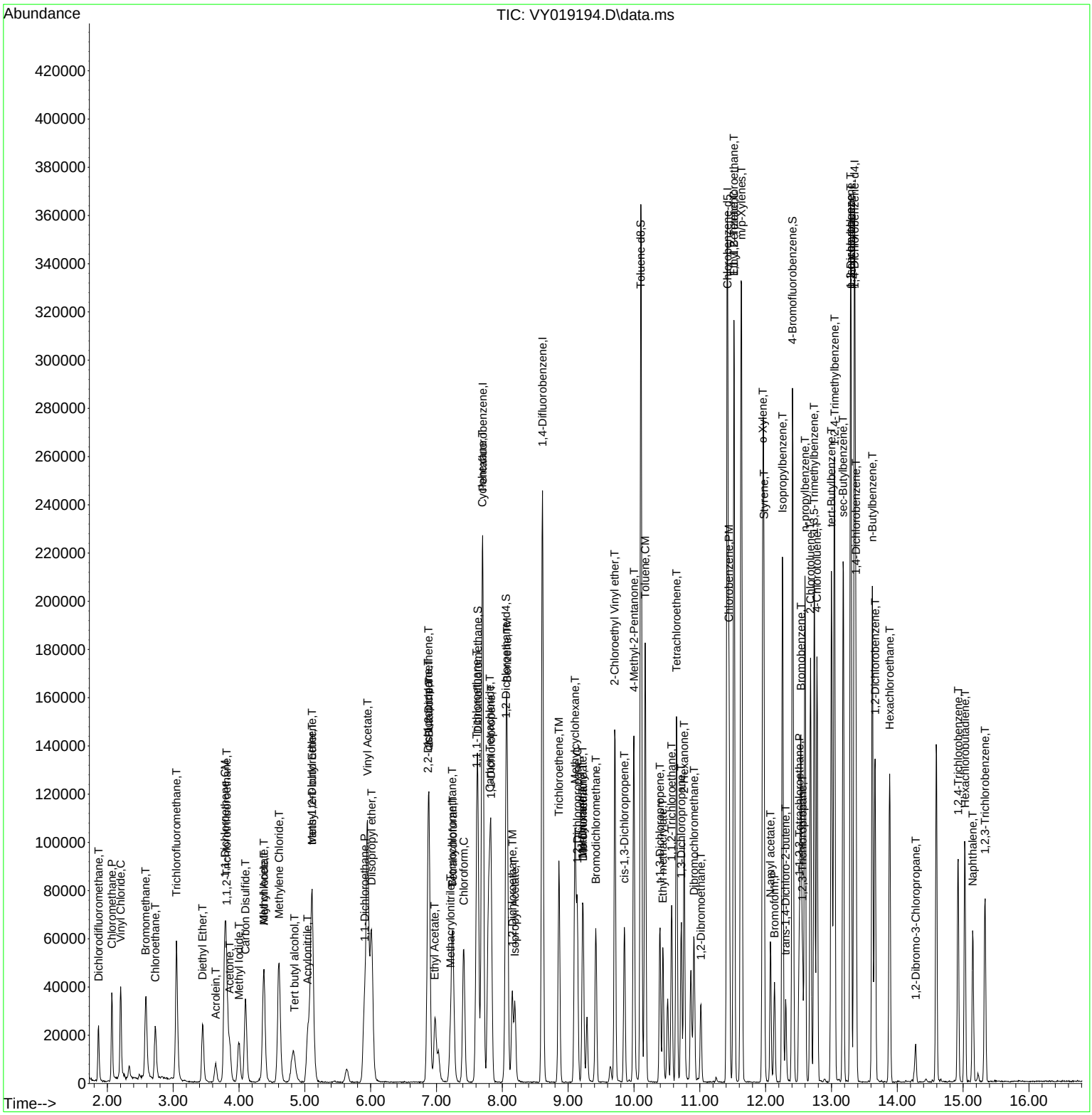
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082124\
Data File : VY019194.D
Acq On : 22 Aug 2024 02:58
Operator : SY/MD
Sample : VY0821SBSD02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 36 Sample Multiplier: 1

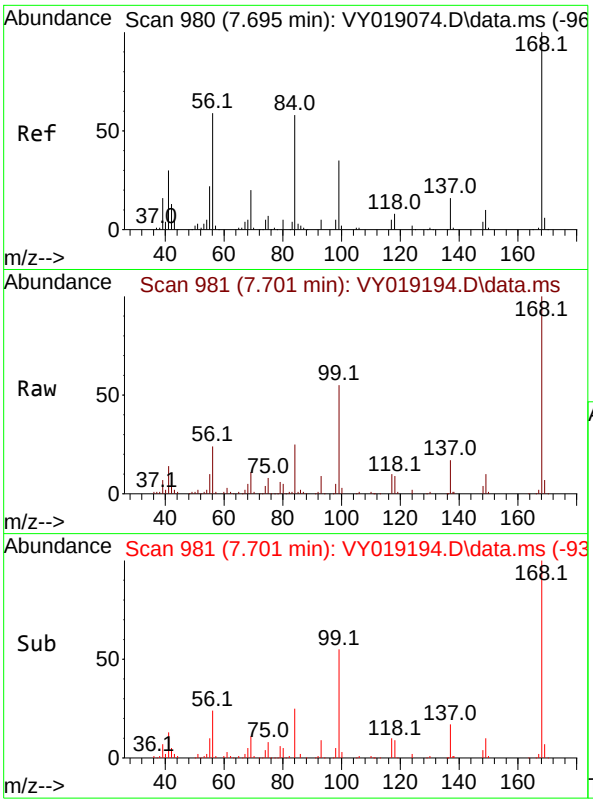
Quant Time: Aug 22 03:48:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081524S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 05:10:30 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

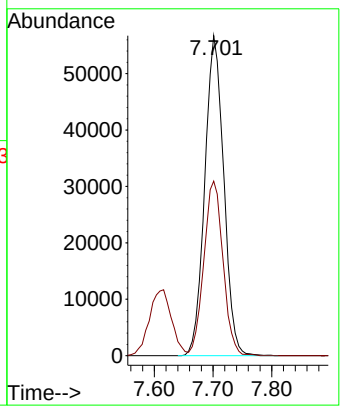




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:168 Resp: 12730

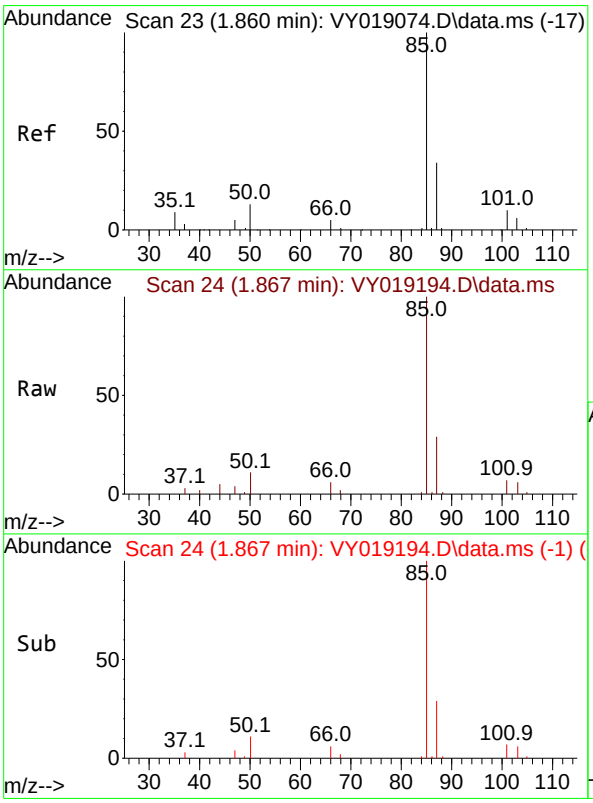
Ion	Ratio	Lower	Upper
168	100		
99	54.6	39.1	58.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

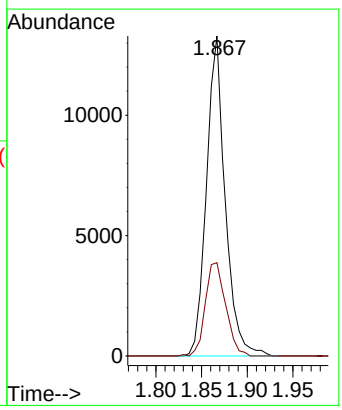
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

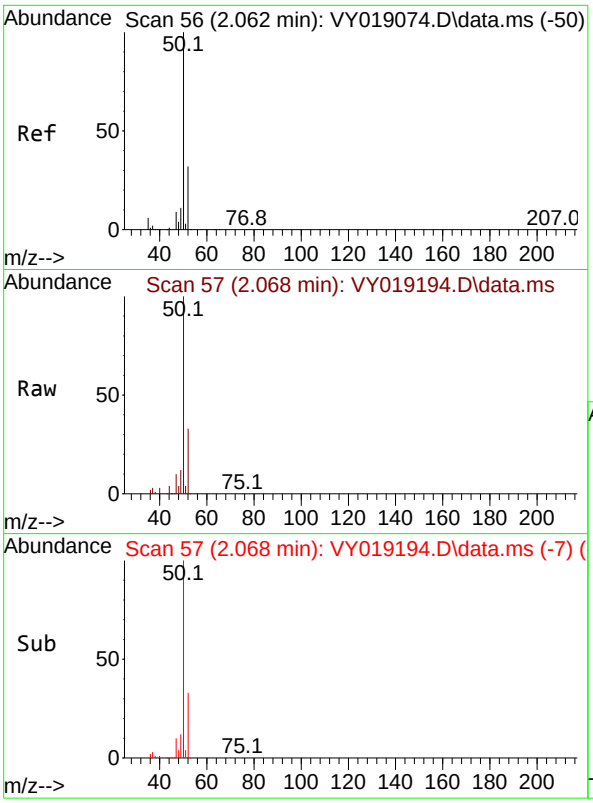


#2
Dichlorodifluoromethane
Concen: 20.230 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 85 Resp: 18895

Ion	Ratio	Lower	Upper
85	100		
87	29.2	16.0	48.0

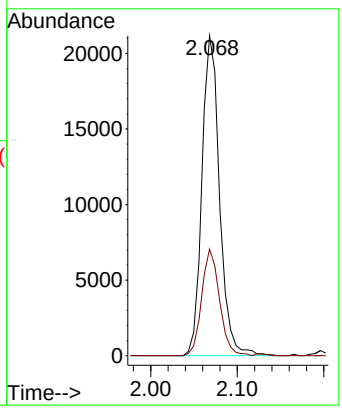




#3
Chloromethane
Concen: 17.779 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 50 Resp: 2993

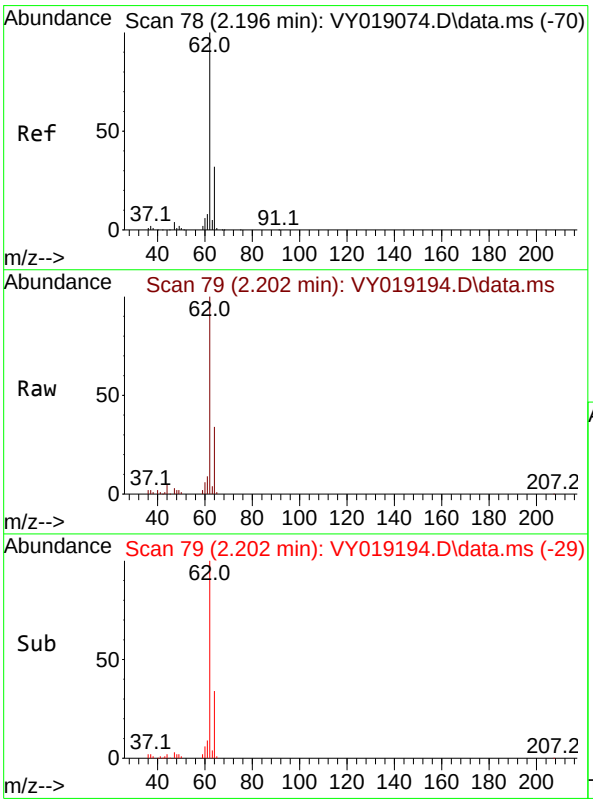
Ion	Ratio	Lower	Upper
50	100		
52	33.3	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

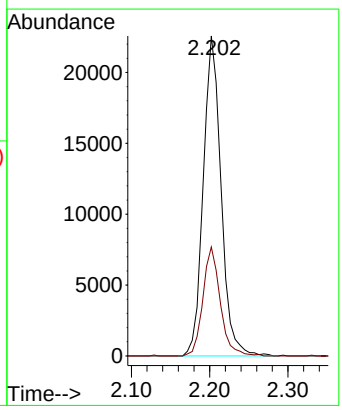
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

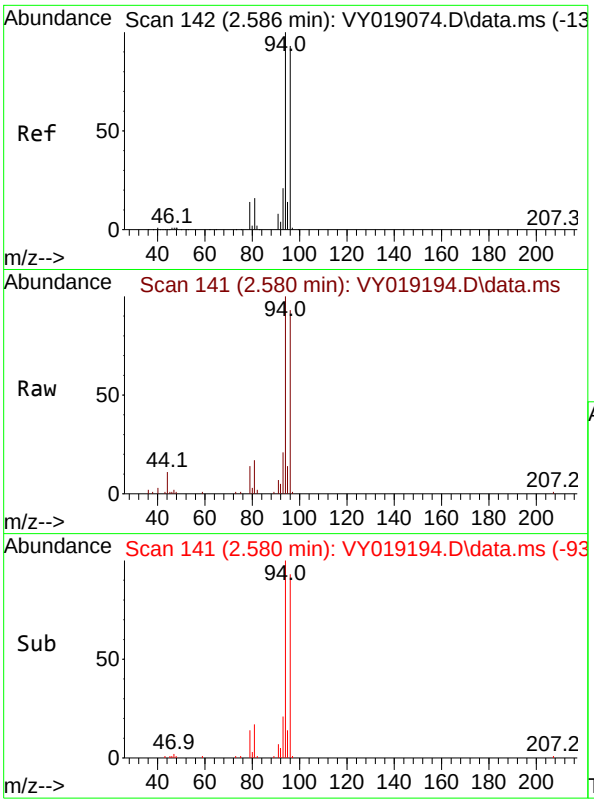


#4
Vinyl Chloride
Concen: 17.127 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 62 Resp: 35616

Ion	Ratio	Lower	Upper
62	100		
64	34.1	26.1	39.1





#5
Bromomethane
Concen: 17.483 ug/l
RT: 2.580 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

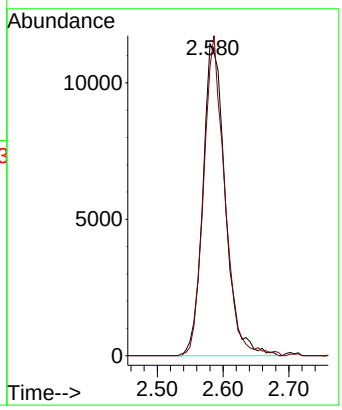
Tgt Ion: 94 Resp: 2708

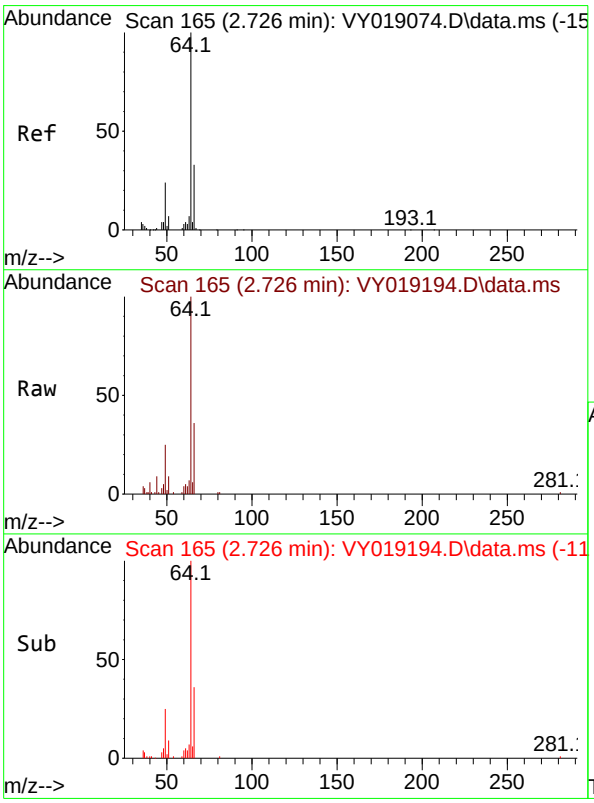
Ion	Ratio	Lower	Upper
94	100		
96	92.8	74.1	111.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

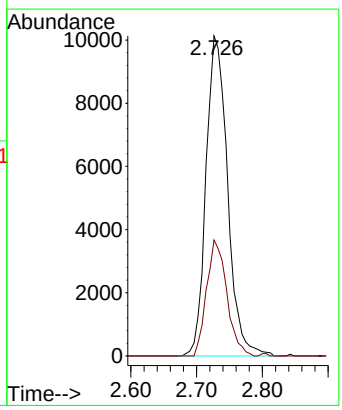


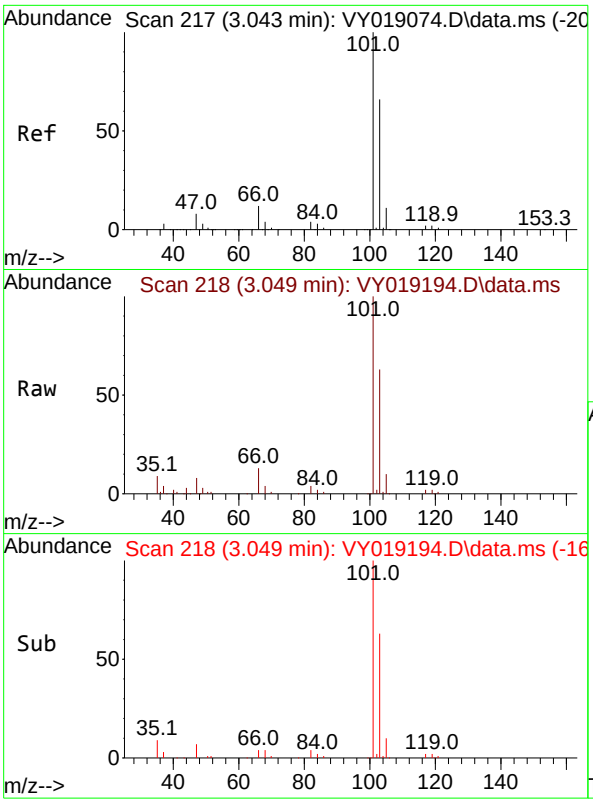


#6
Chloroethane
Concen: 16.287 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 64 Resp: 23135

Ion	Ratio	Lower	Upper
64	100		
66	36.2	26.1	39.1

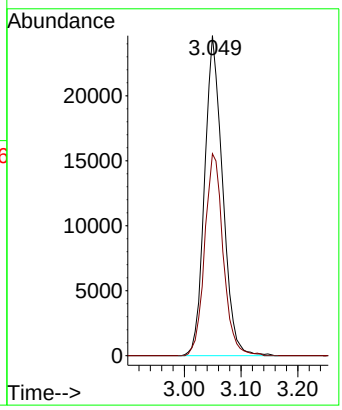




#7
Trichlorofluoromethane
Concen: 17.313 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:101 Resp: 5443

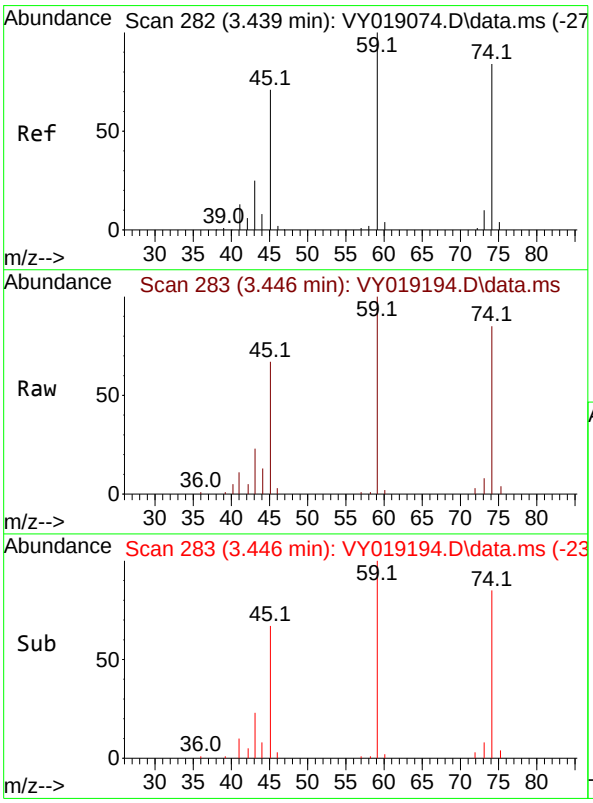
Ion	Ratio	Lower	Upper
101	100		
103	63.1	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

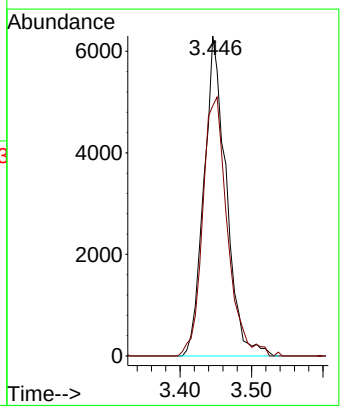
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

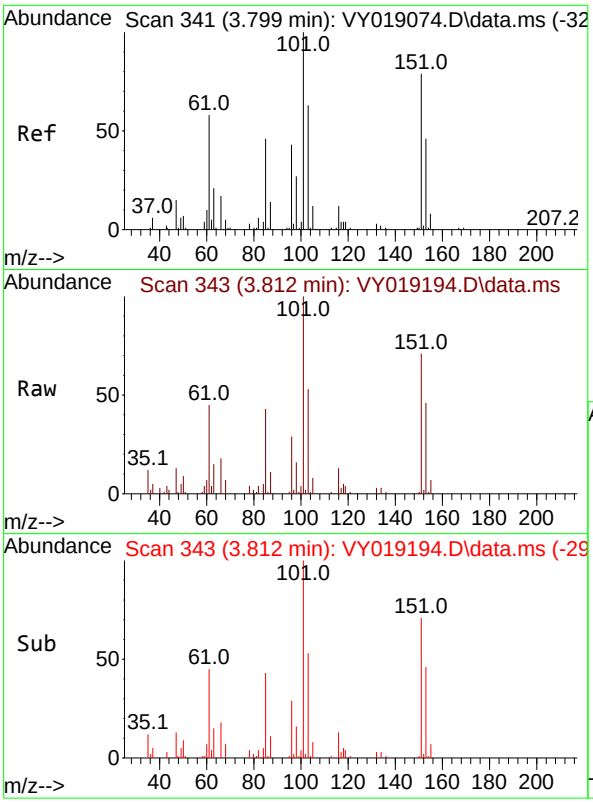


#8
Diethyl Ether
Concen: 20.120 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 74 Resp: 13654

Ion	Ratio	Lower	Upper
74	100		
45	89.7	41.3	124.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.169 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

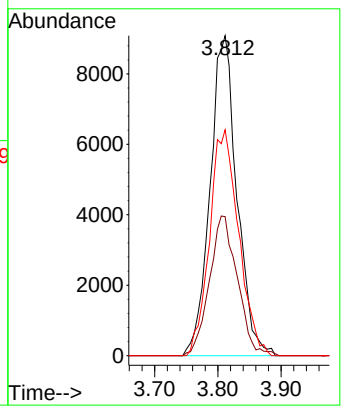
Tgt Ion:101 Resp: 2679

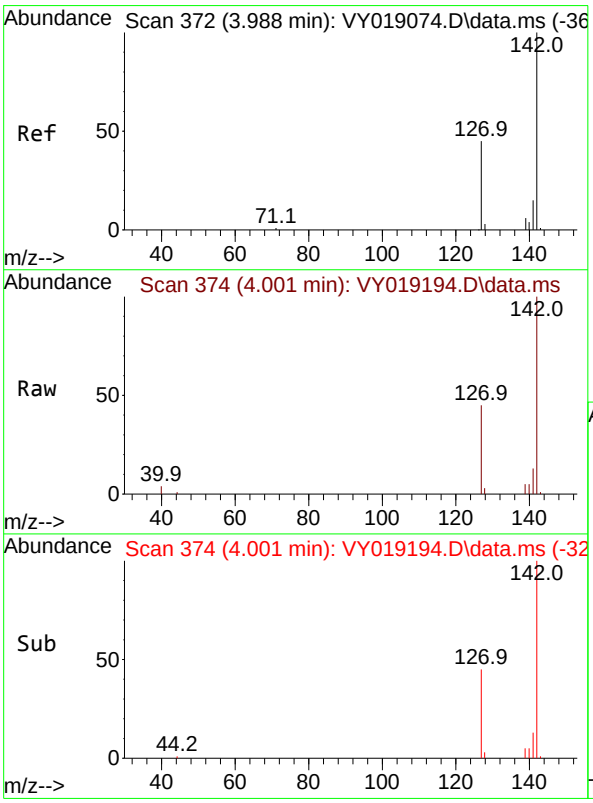
Ion	Ratio	Lower	Upper
101	100		
85	45.5	34.5	51.7
151	76.3	61.7	92.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

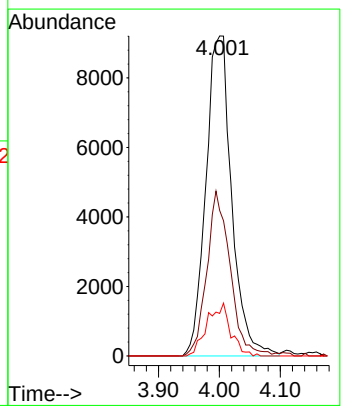


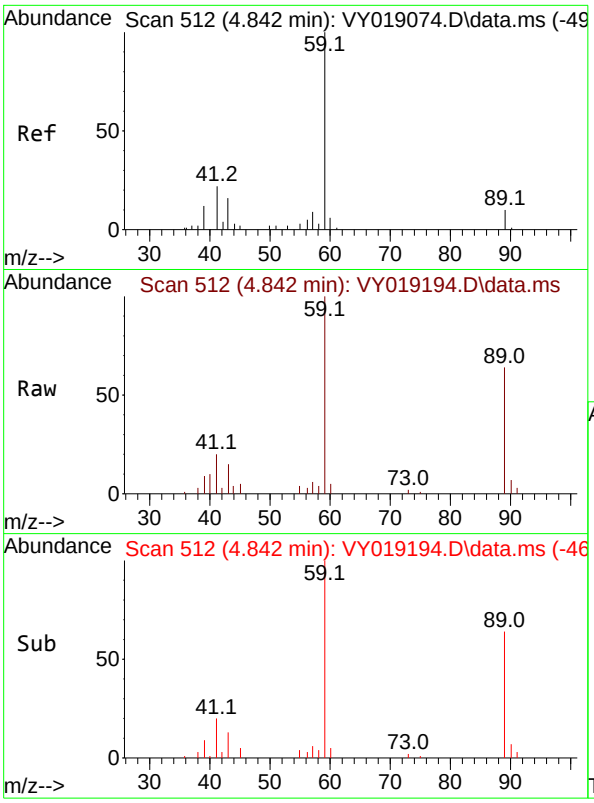


#10
Methyl Iodide
Concen: 19.790 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:142 Resp: 27113

Ion	Ratio	Lower	Upper
142	100		
127	46.6	32.8	49.2
141	15.1	11.4	17.2

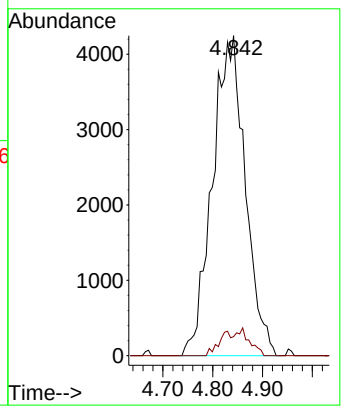




#11
Tert butyl alcohol
Concen: 164.345 ug/l
RT: 4.842 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 59 Resp: 1941

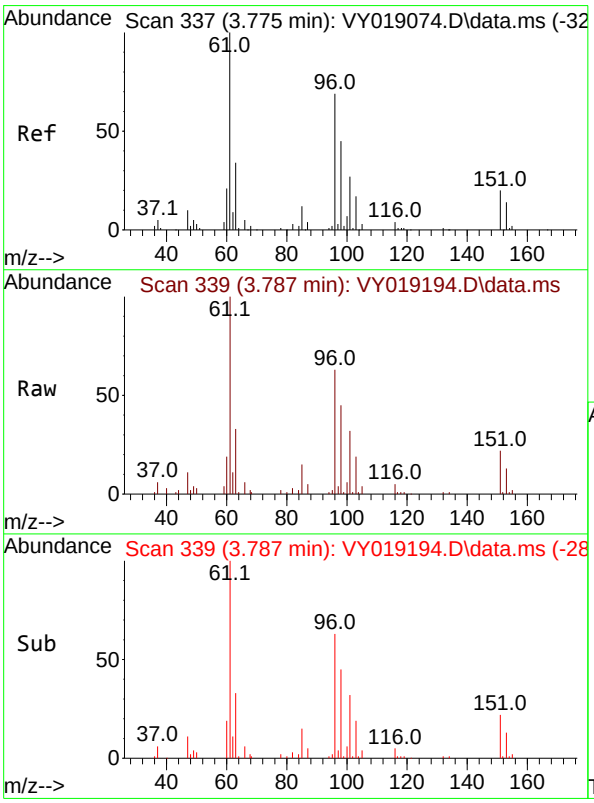
Ion	Ratio	Lower	Upper
59	100		
57	2.9	3.0	4.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

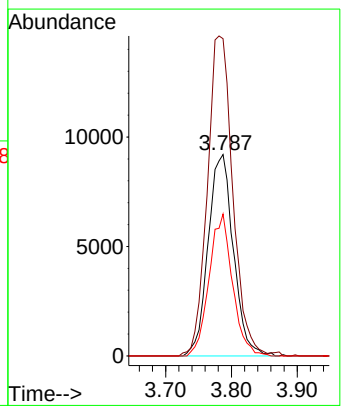
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

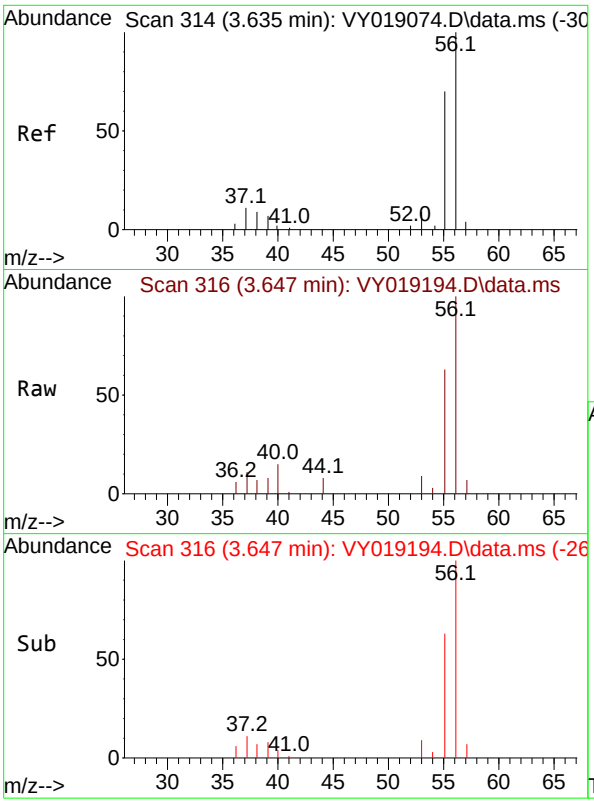


#12
1,1-Dichloroethene
Concen: 19.373 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 96 Resp: 24601

Ion	Ratio	Lower	Upper
96	100		
61	157.5	114.6	171.8
98	70.5	50.8	76.2

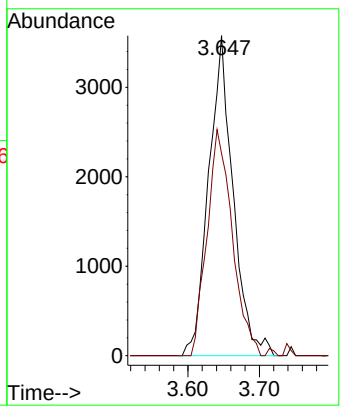




#13
Acrolein
Concen: 74.736 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 56 Resp: 848

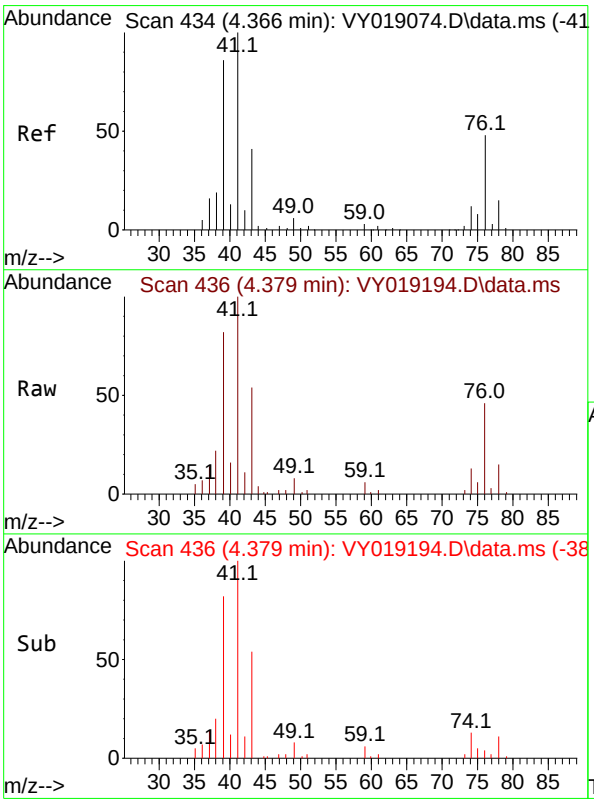
Ion	Ratio	Lower	Upper
56	100		
55	73.0	55.7	83.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

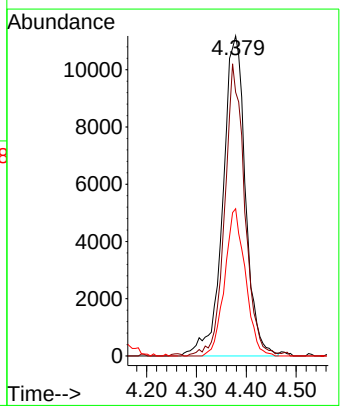
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

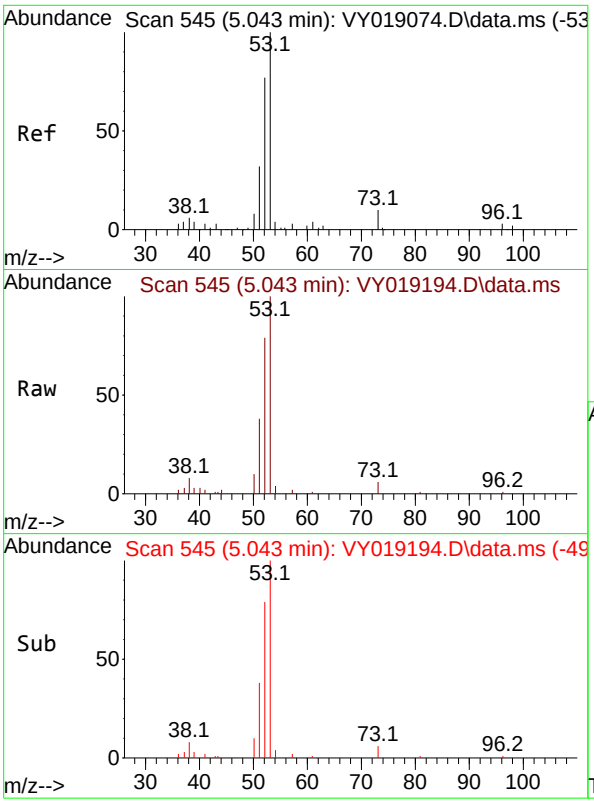


#14
Allyl chloride
Concen: 20.826 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 41 Resp: 35161

Ion	Ratio	Lower	Upper
41	100		
39	81.1	58.3	87.5
76	42.1	39.0	58.6





#15
Acrylonitrile
Concen: 106.714 ug/l
RT: 5.043 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

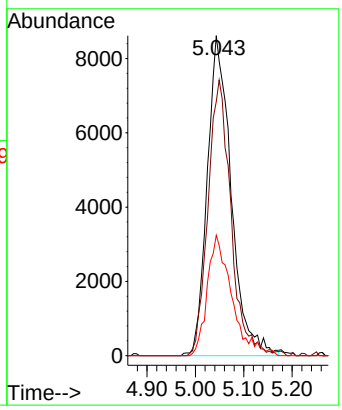
Tgt Ion: 53 Resp: 2963

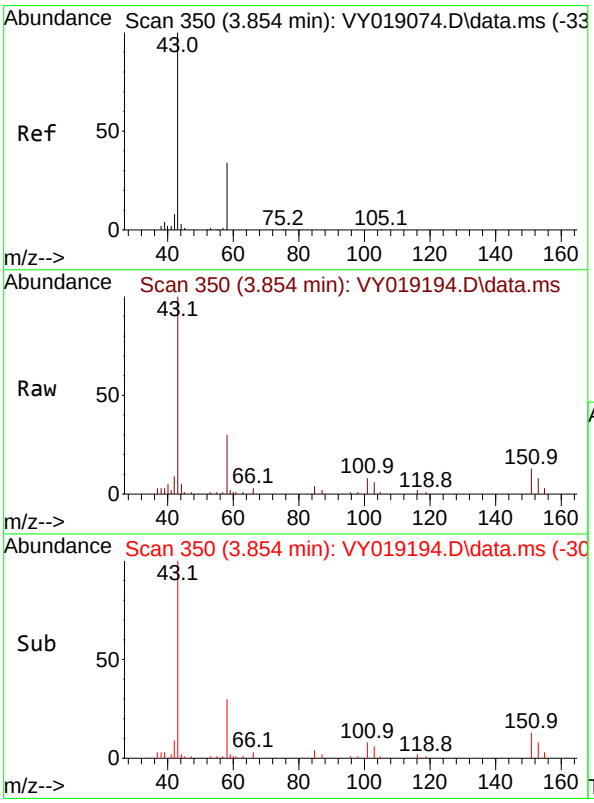
Ion	Ratio	Lower	Upper
53	100		
52	82.3	64.7	97.1
51	38.5	28.4	42.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

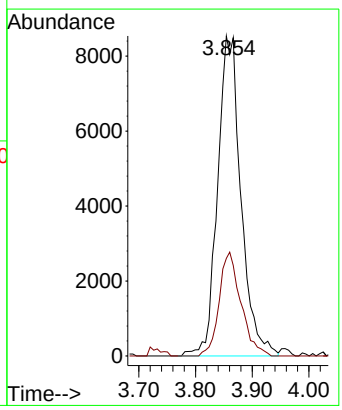


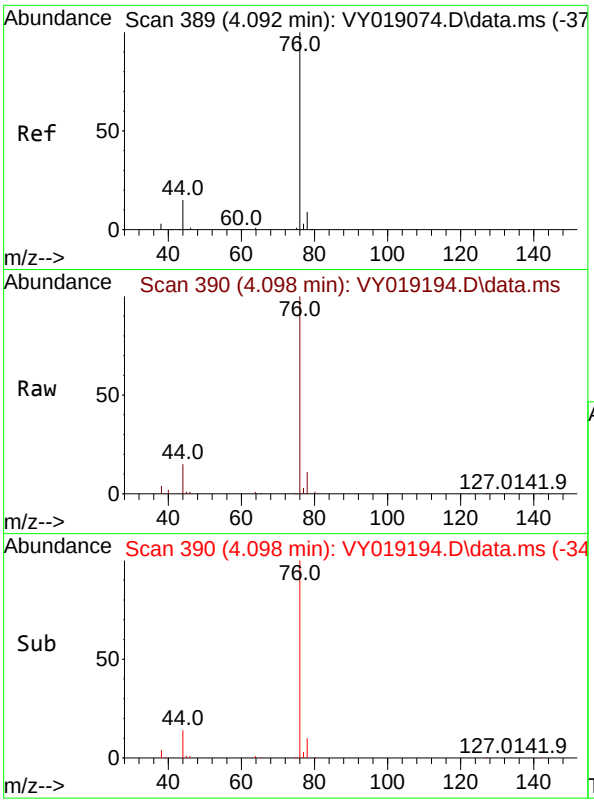


#16
Acetone
Concen: 103.363 ug/l
RT: 3.854 min Scan# 350
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 43 Resp: 24462

Ion	Ratio	Lower	Upper
43	100		
58	30.5	31.7	47.5#

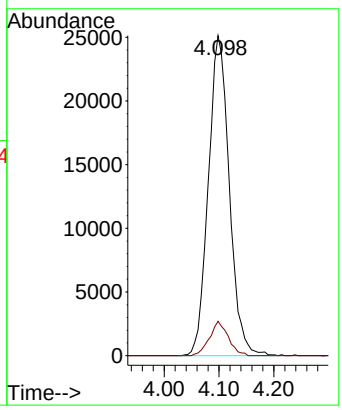




#17
Carbon Disulfide
Concen: 18.619 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 76 Resp: 6668

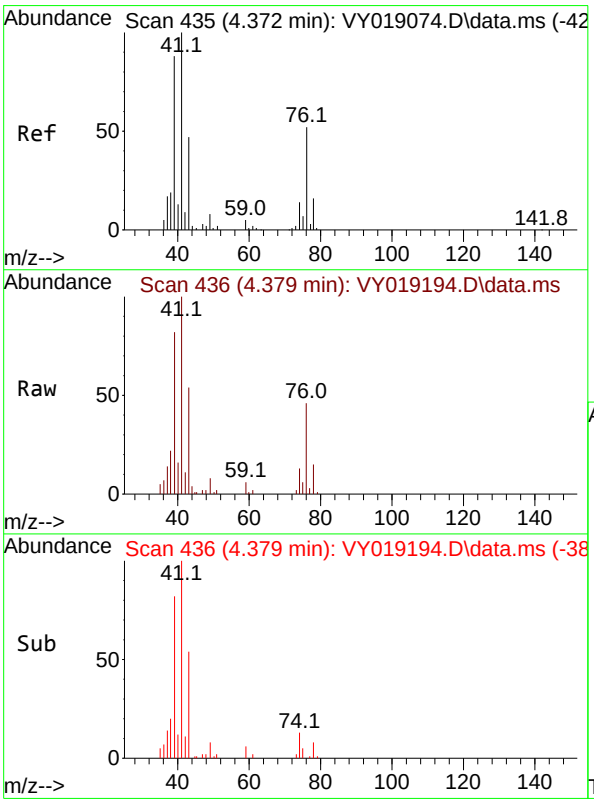
Ion	Ratio	Lower	Upper
76	100		
78	10.8	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

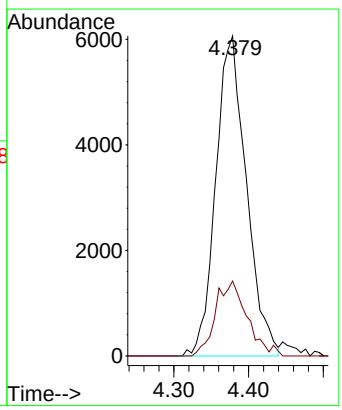
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

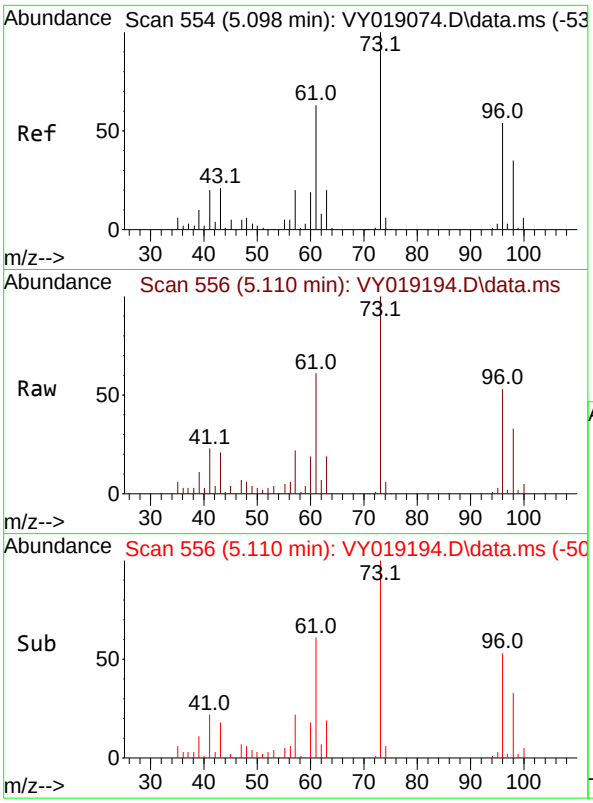


#18
Methyl Acetate
Concen: 23.764 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 43 Resp: 17261

Ion	Ratio	Lower	Upper
43	100		
74	24.3	23.3	34.9





#19
Methyl tert-butyl Ether
Concen: 21.011 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

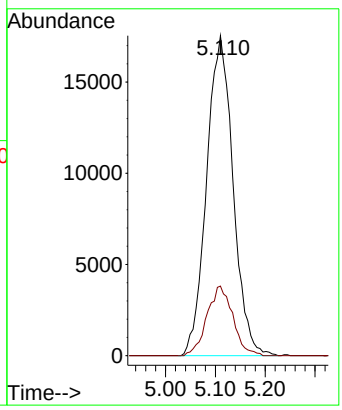
Tgt Ion: 73 Resp: 6468

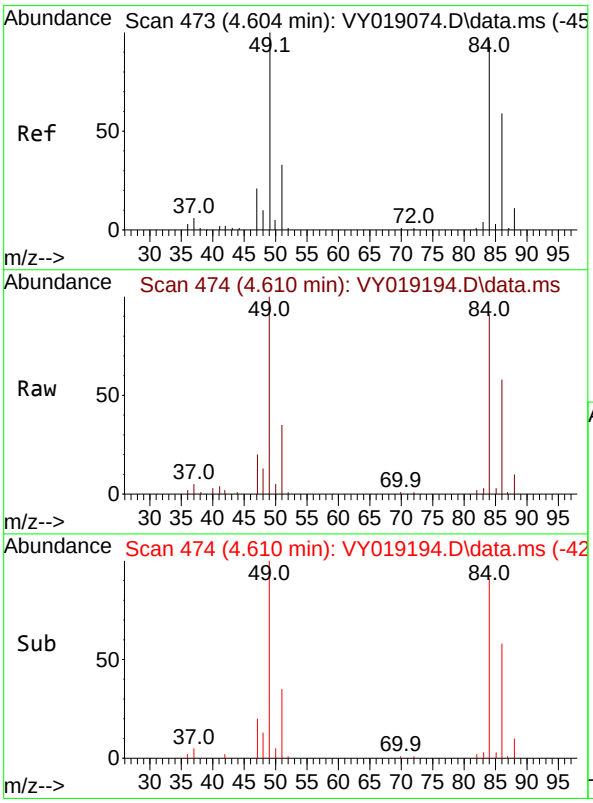
Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.3	25.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

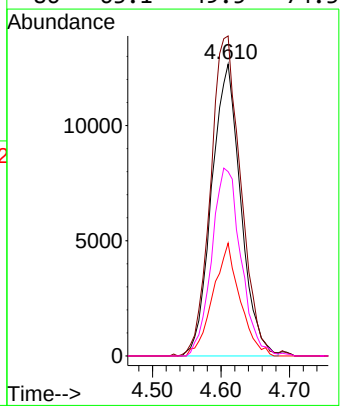


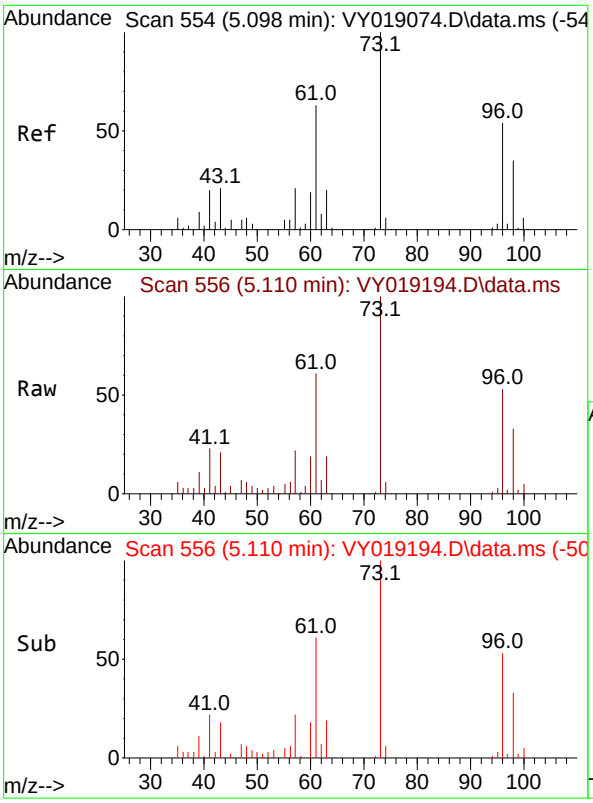


#20
Methylene Chloride
Concen: 19.040 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 84 Resp: 37291

Ion	Ratio	Lower	Upper
84	100		
49	109.6	84.4	126.6
51	38.7	26.0	39.0
86	63.1	49.5	74.3

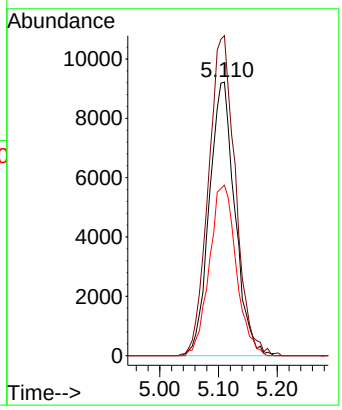




#21
trans-1,2-Dichloroethene
Concen: 19.671 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 96 Resp: 2790

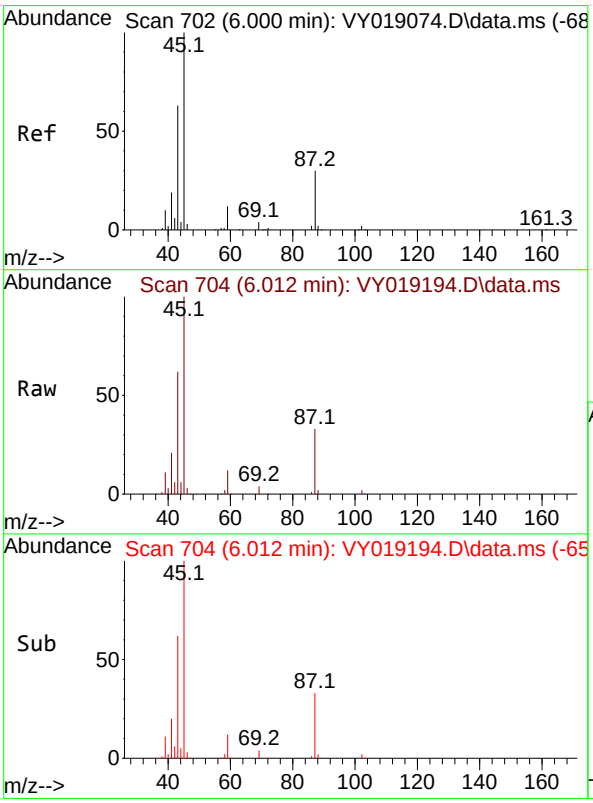
Ion	Ratio	Lower	Upper
96	100		
61	117.0	97.5	146.3
98	62.4	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

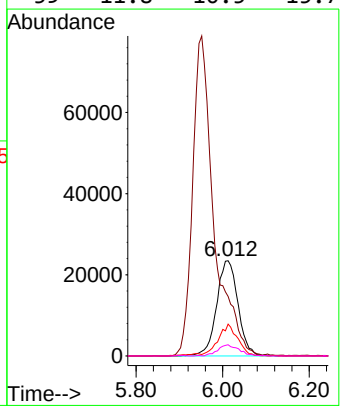
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

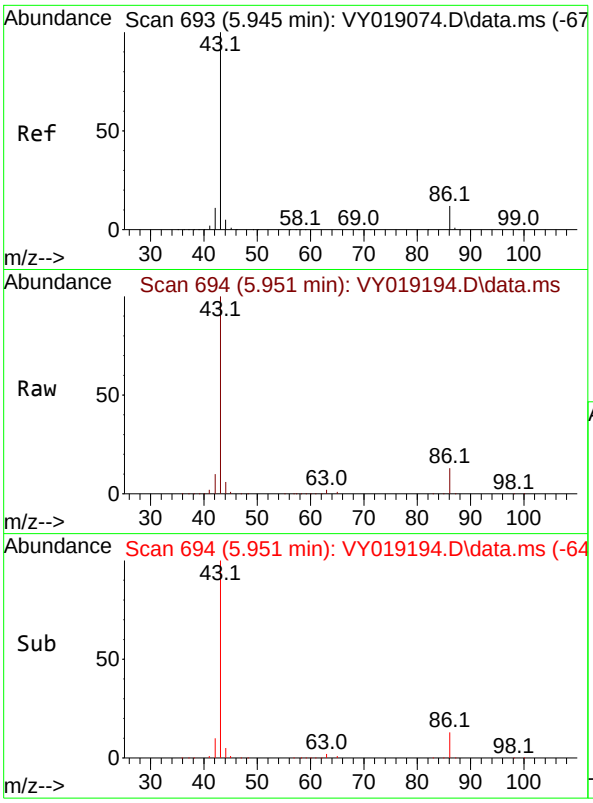


#22
Diisopropyl ether
Concen: 20.877 ug/l
RT: 6.012 min Scan# 704
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 45 Resp: 80689

Ion	Ratio	Lower	Upper
45	100		
43	61.8	42.2	63.2
87	33.4	25.0	37.6
59	11.8	10.5	15.7





#23
Vinyl Acetate
Concen: 87.962 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

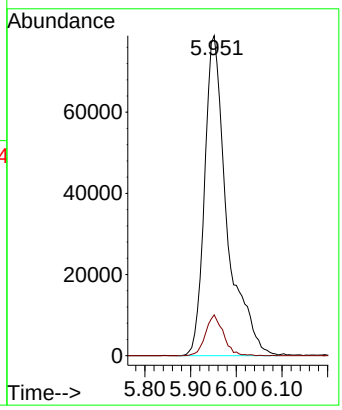
Tgt Ion: 43 Resp: 26916

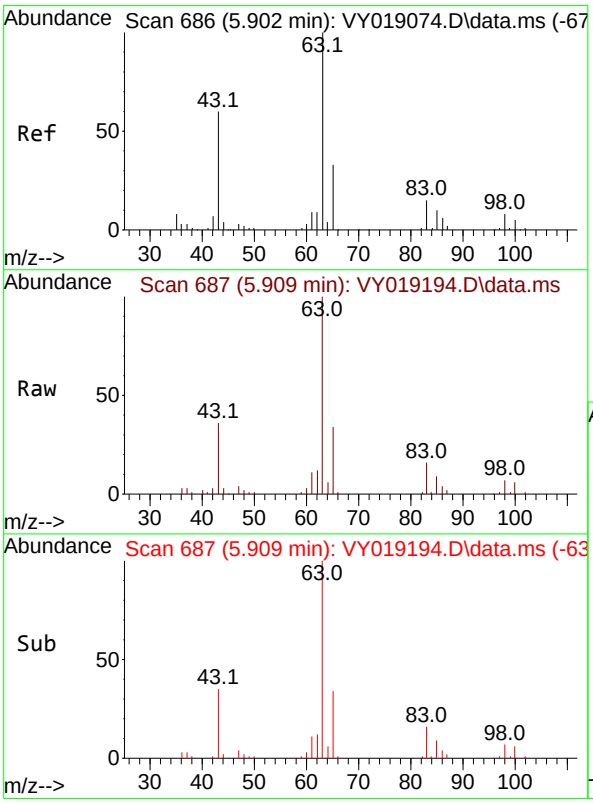
Ion	Ratio	Lower	Upper
43	100		
86	12.8	10.6	16.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

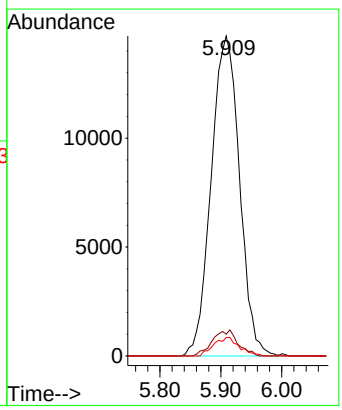


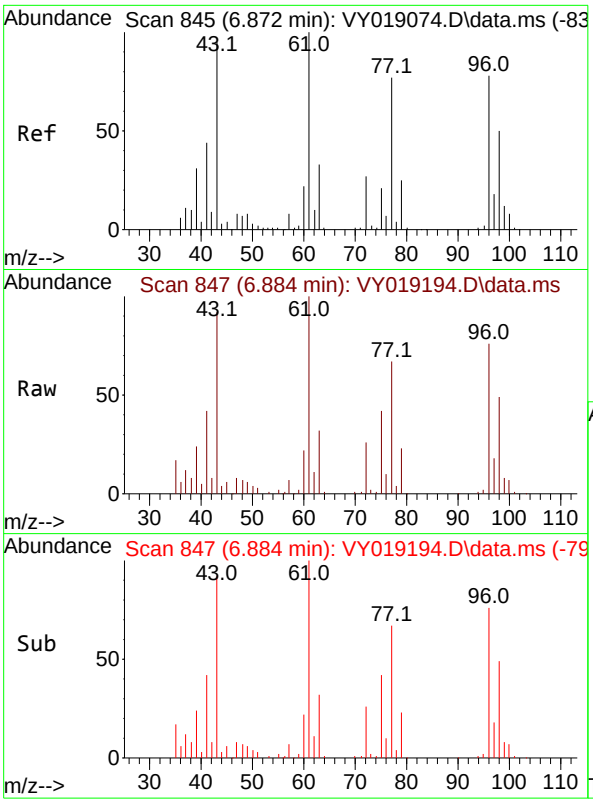


#24
1,1-Dichloroethane
Concen: 20.061 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 63 Resp: 47418

Ion	Ratio	Lower	Upper
63	100		
98	6.8	4.0	12.2
100	5.8	2.6	8.0

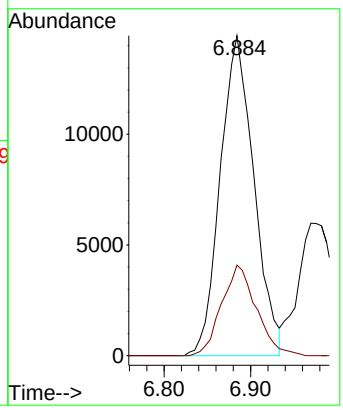




#25
2-Butanone
Concen: 102.426 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 43 Resp: 3903

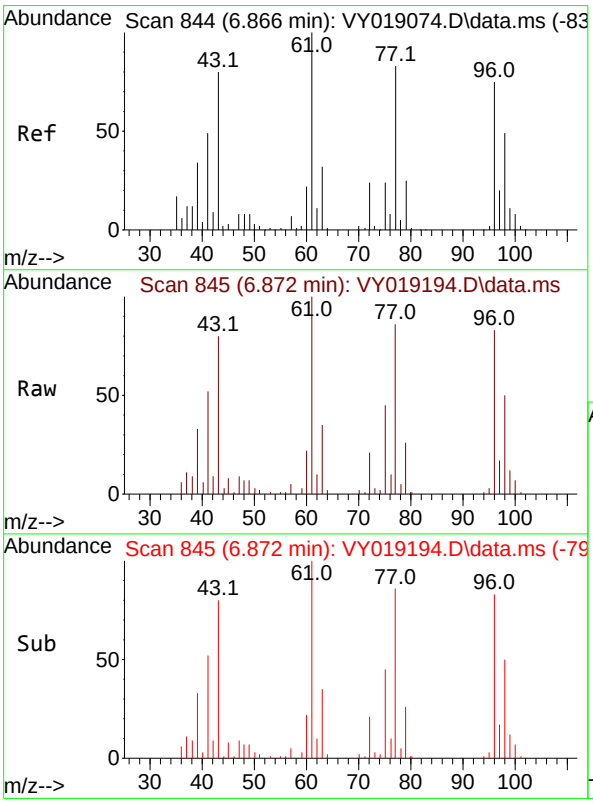
Ion	Ratio	Lower	Upper
43	100		
72	28.3	27.3	40.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

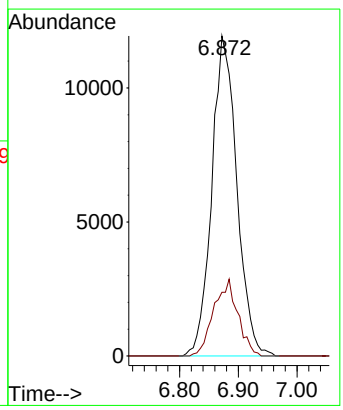
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

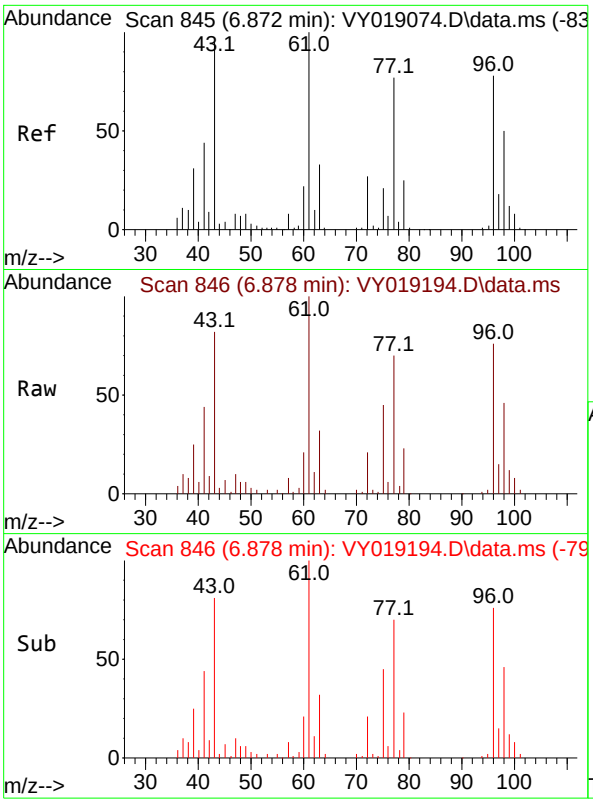


#26
2,2-Dichloropropane
Concen: 18.505 ug/l
RT: 6.872 min Scan# 845
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 77 Resp: 35419

Ion	Ratio	Lower	Upper
77	100		
97	23.0	12.0	36.1

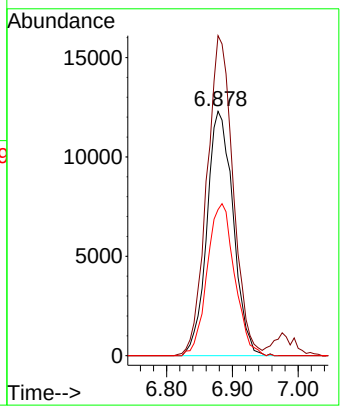




#27
cis-1,2-Dichloroethene
Concen: 20.481 ug/l
RT: 6.878 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 96 Resp: 3419

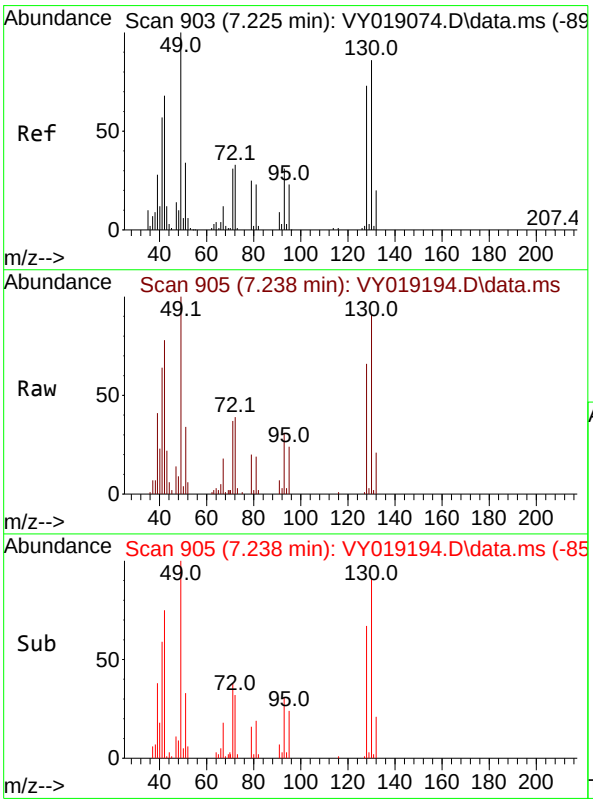
Ion	Ratio	Lower	Upper
96	100		
61	131.0	0.0	256.2
98	64.9	0.0	130.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

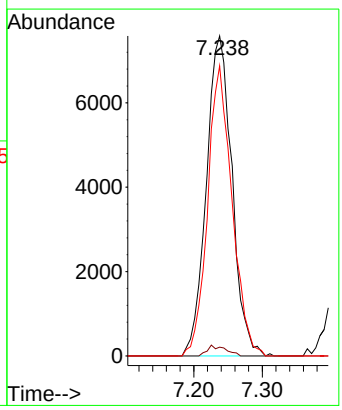
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

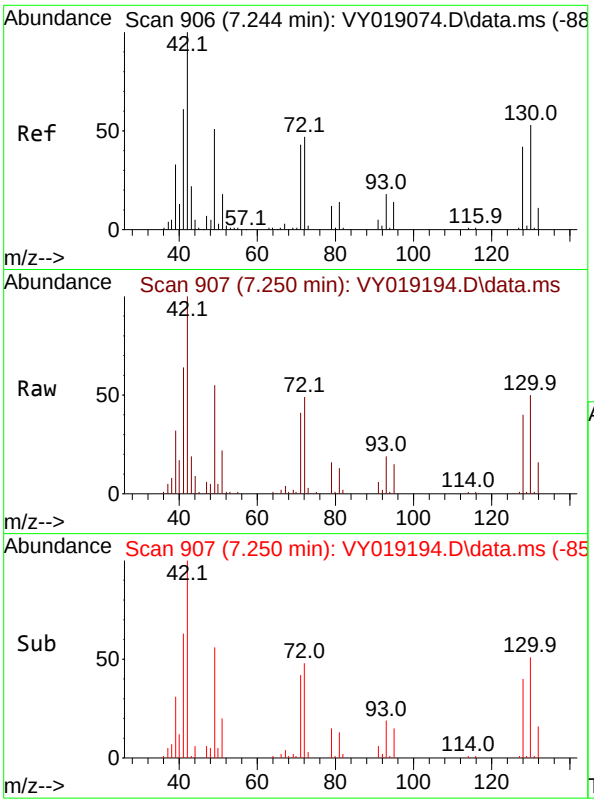


#28
Bromochloromethane
Concen: 19.902 ug/l
RT: 7.238 min Scan# 905
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 49 Resp: 19733

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.6
130	86.2	72.7	109.1

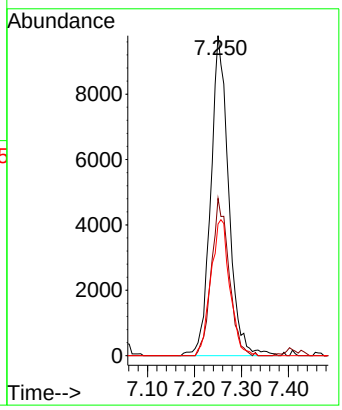




#29
Tetrahydrofuran
Concen: 105.896 ug/l
RT: 7.250 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 42 Resp: 2594

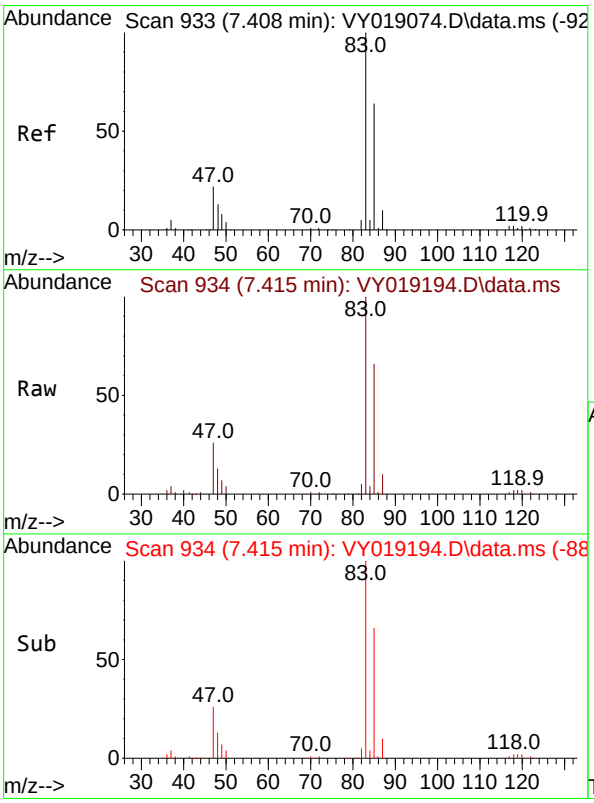
Ion	Ratio	Lower	Upper
42	100		
72	48.1	43.0	64.4
71	44.9	40.8	61.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

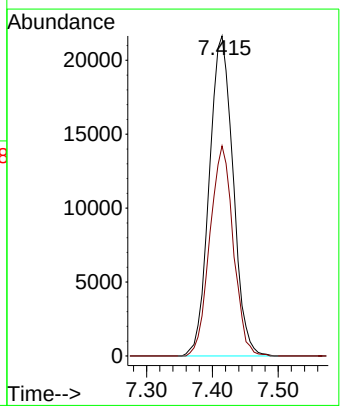
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

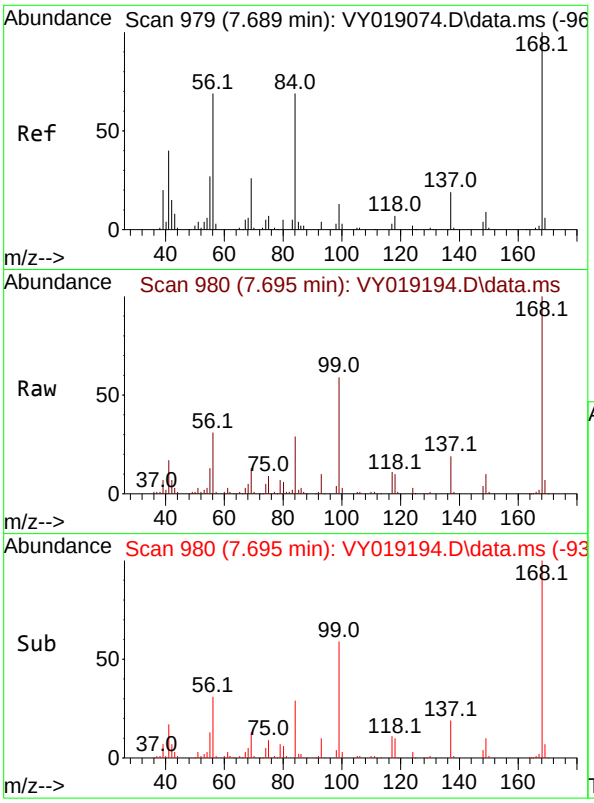


#30
Chloroform
Concen: 20.707 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 83 Resp: 54539

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.2	78.4

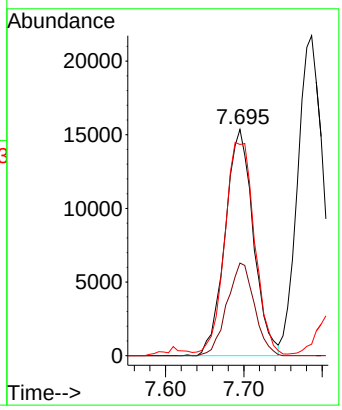




#31
Cyclohexane
Concen: 18.413 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 56 Resp: 3854

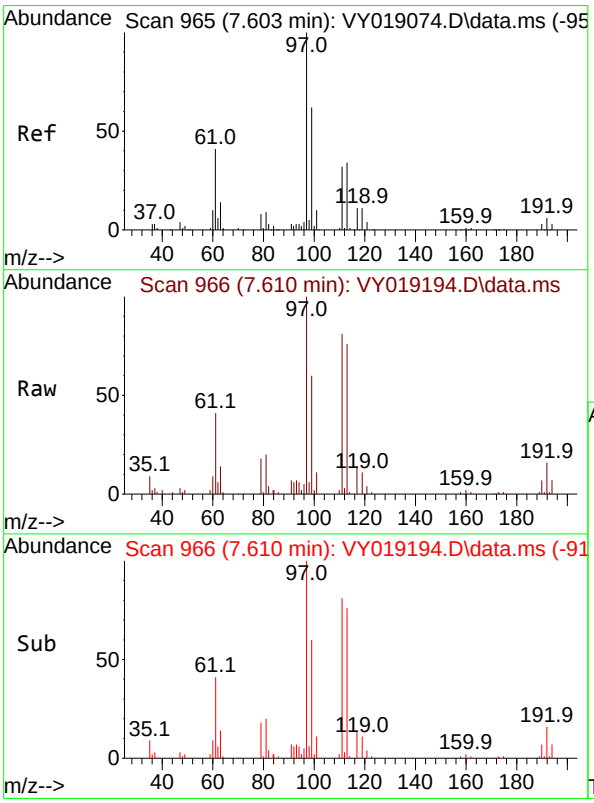
Ion	Ratio	Lower	Upper
56	100		
69	41.0	28.7	43.1
84	91.1	77.7	116.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

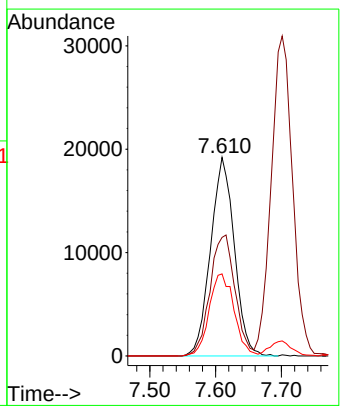
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

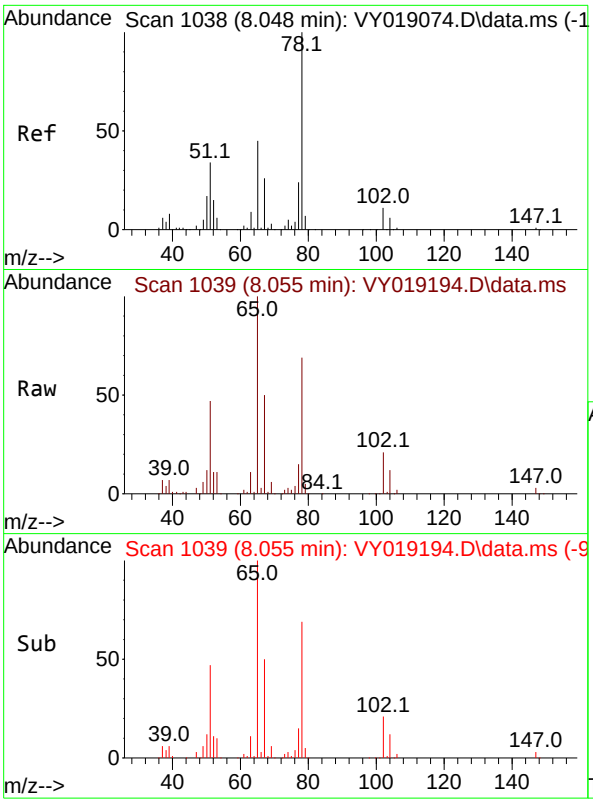


#32
1,1,1-Trichloroethane
Concen: 20.886 ug/l
RT: 7.610 min Scan# 966
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 97 Resp: 48343

Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.3	75.5
61	43.3	32.6	48.8

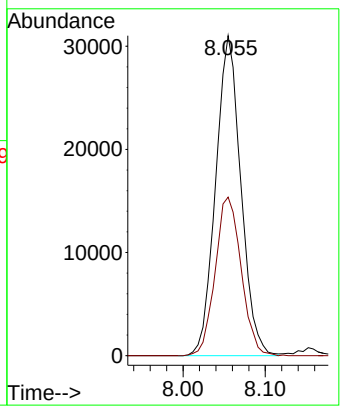




#33
1,2-Dichloroethane-d4
Concen: 51.770 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 65 Resp: 6606

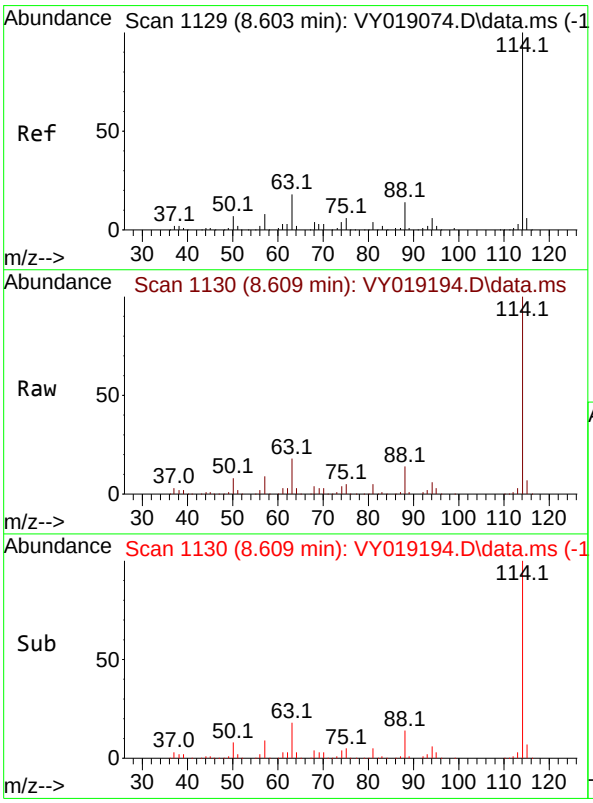
Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	109.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

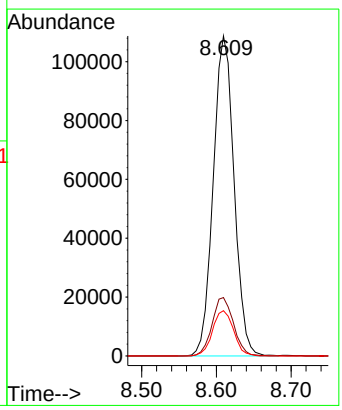
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

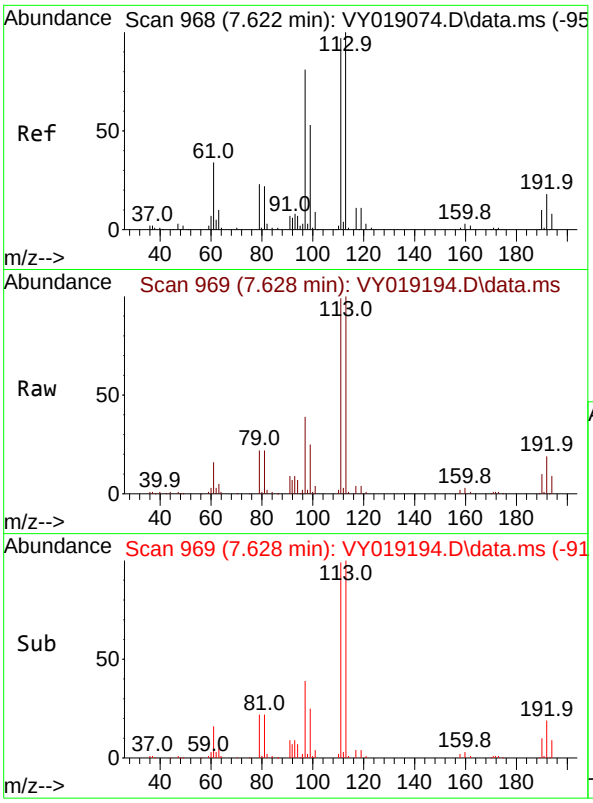


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:114 Resp: 210956

Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	35.0
88	14.1	0.0	27.2

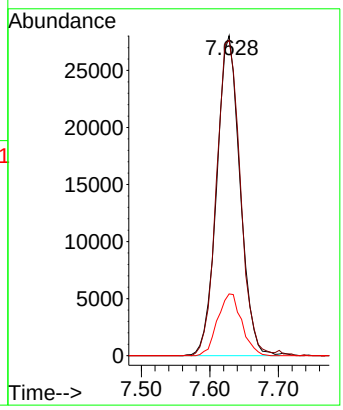




#35
Dibromofluoromethane
Concen: 47.922 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:113 Resp: 6610

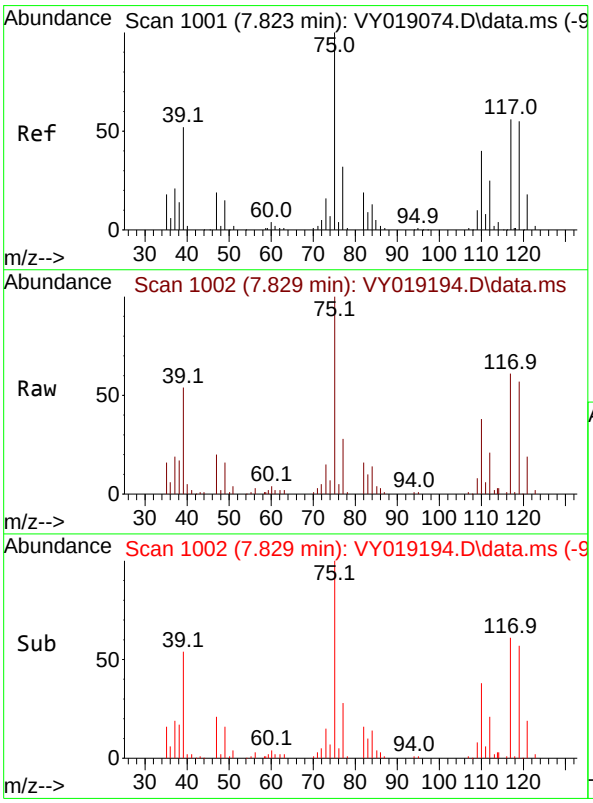
Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.2	123.4
192	20.0	15.9	23.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

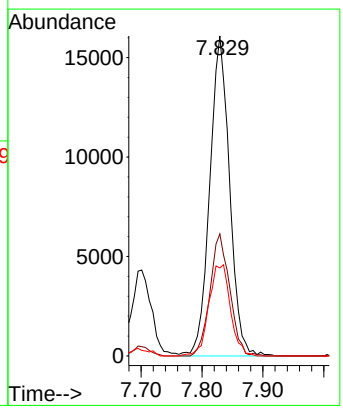
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

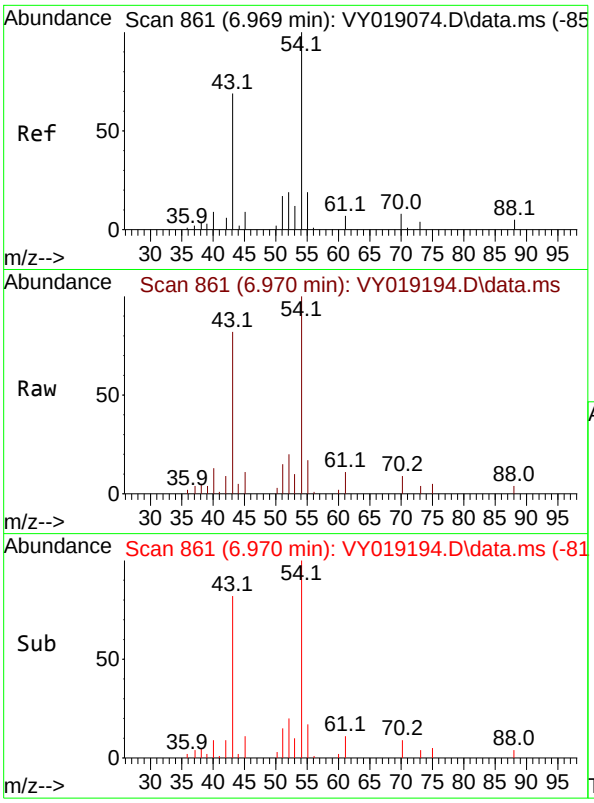


#36
1,1-Dichloropropene
Concen: 19.204 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 75 Resp: 36374

Ion	Ratio	Lower	Upper
75	100		
110	37.7	19.0	57.0
77	30.9	25.3	37.9





#37
Ethyl Acetate
Concen: 21.353 ug/l
RT: 6.970 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

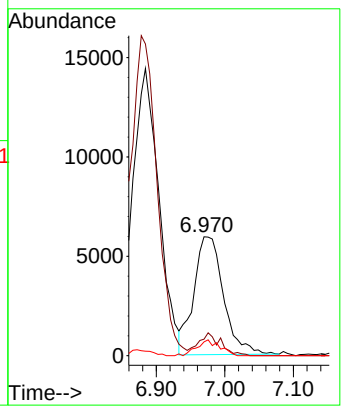
Tgt Ion: 43 Resp: 1791

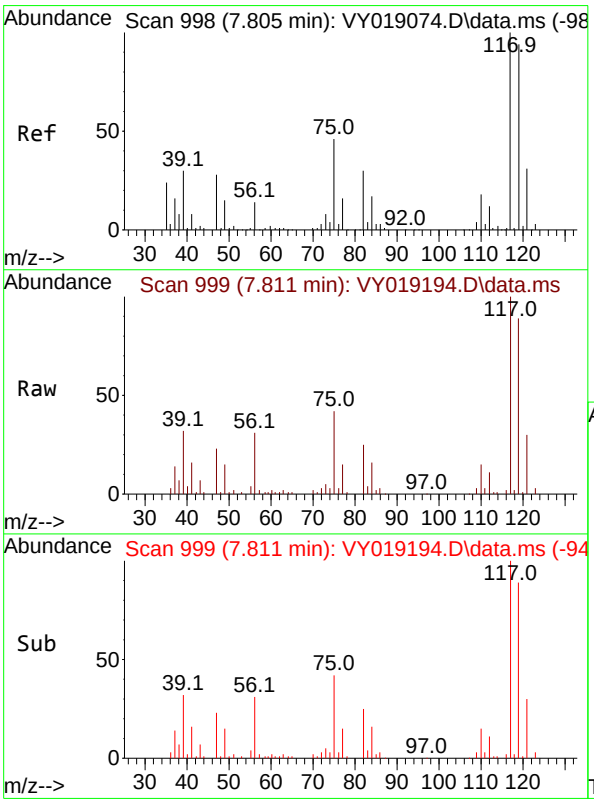
Ion	Ratio	Lower	Upper
43	100		
61	14.5	12.6	19.0
70	10.4	7.8	11.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

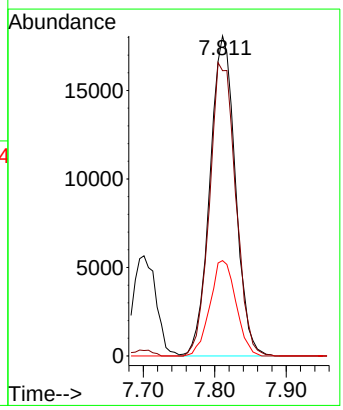


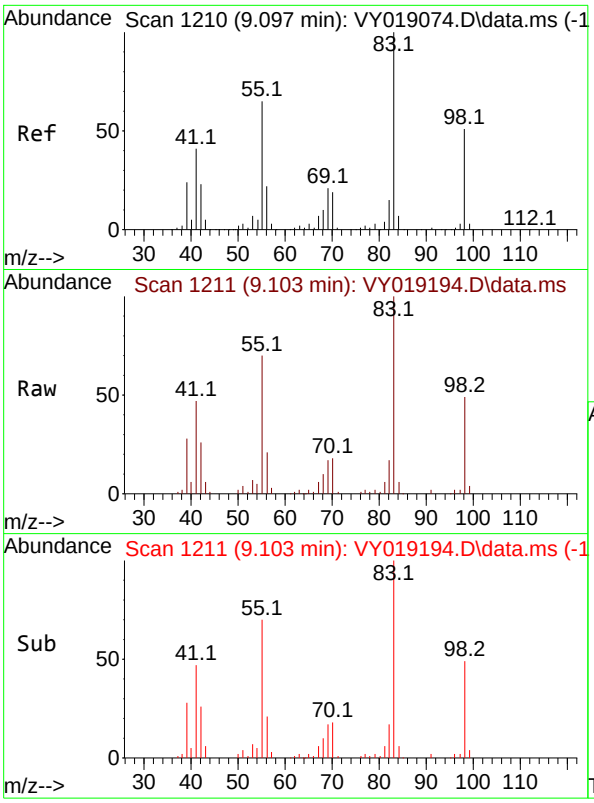


#38
Carbon Tetrachloride
Concen: 20.382 ug/l
RT: 7.811 min Scan# 999
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:117 Resp: 44740

Ion	Ratio	Lower	Upper
117	100		
119	89.1	75.8	113.6
121	29.8	24.0	36.0

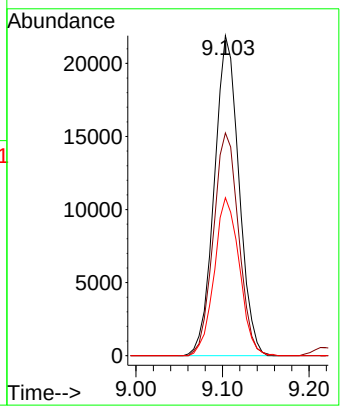




#39
Methylcyclohexane
Concen: 17.779 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 83 Resp: 4321

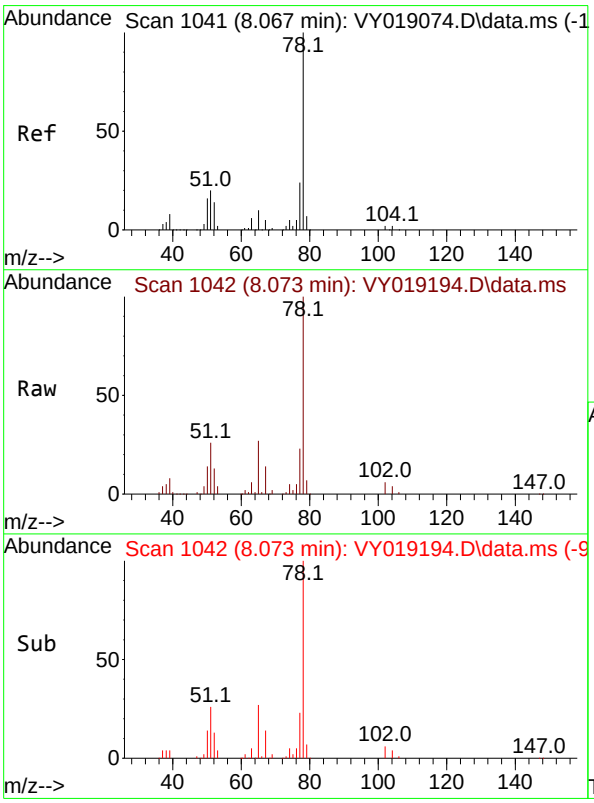
Ion	Ratio	Lower	Upper
83	100		
55	69.6	51.5	77.3
98	49.4	40.5	60.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

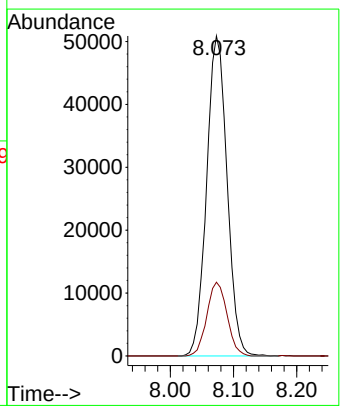
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

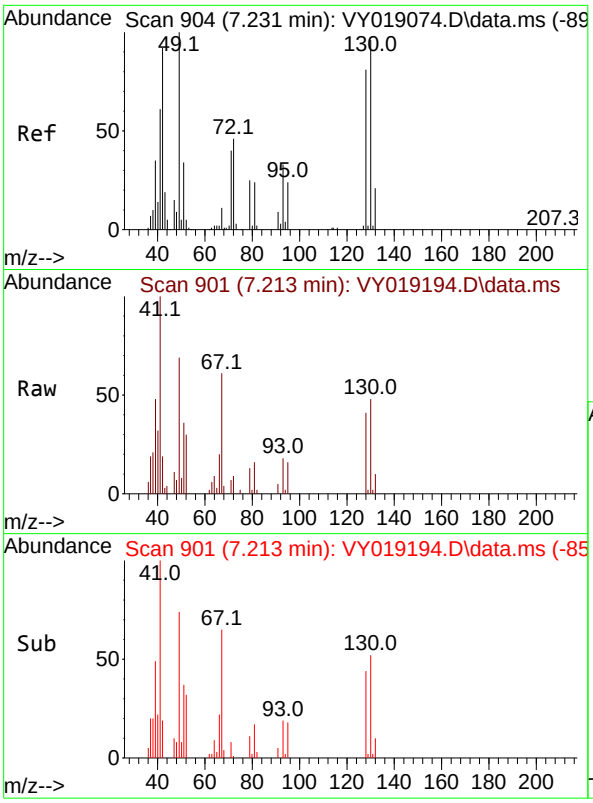


#40
Benzene
Concen: 19.661 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 78 Resp: 114211

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.5	29.3

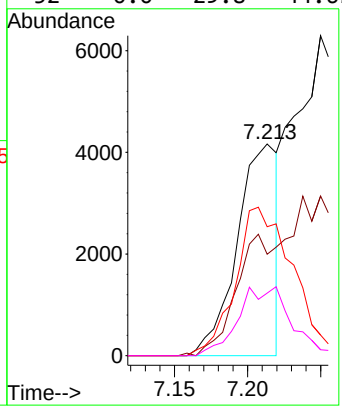




#41
Methacrylonitrile
Concen: 17.545 ug/l m
RT: 7.213 min Scan# 9
Delta R.T. -0.018 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 41 Resp: 803

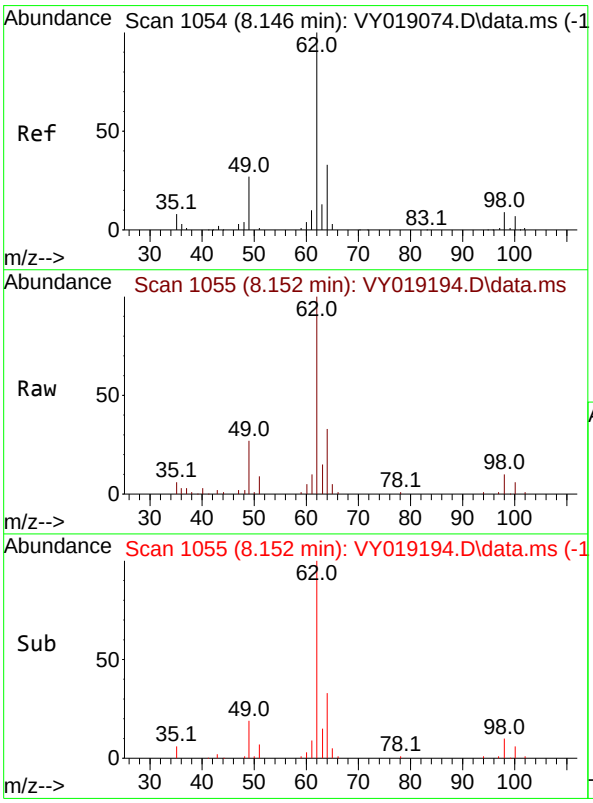
Ion	Ratio	Lower	Upper
41	100		
39	114.8	48.0	72.0#
67	0.0	75.1	112.7#
52	0.0	29.8	44.6#



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

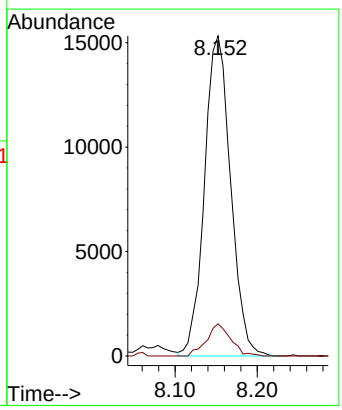
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

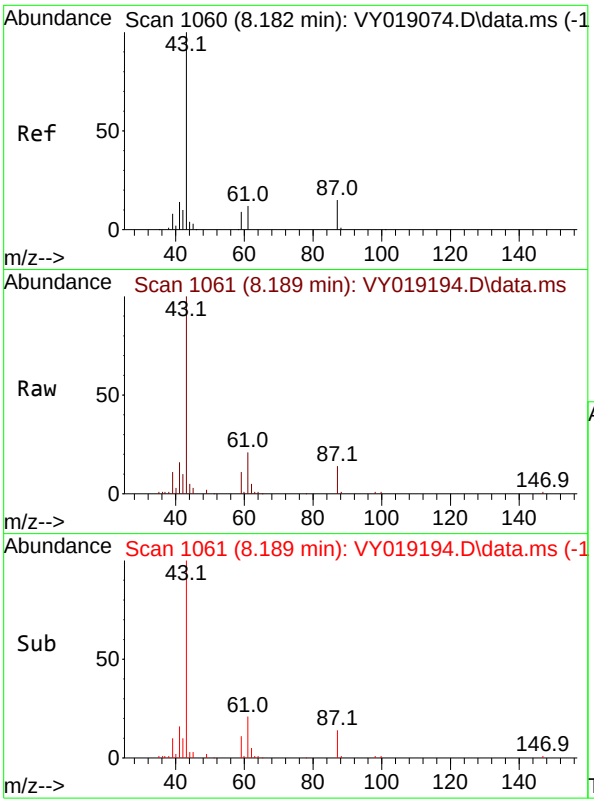


#42
1,2-Dichloroethane
Concen: 21.608 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 62 Resp: 33896

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	22.0

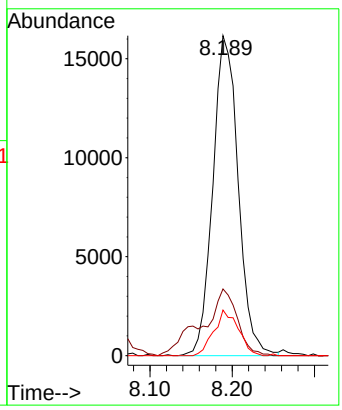




#43
Isopropyl Acetate
Concen: 20.447 ug/l
RT: 8.189 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 43 Resp: 3470

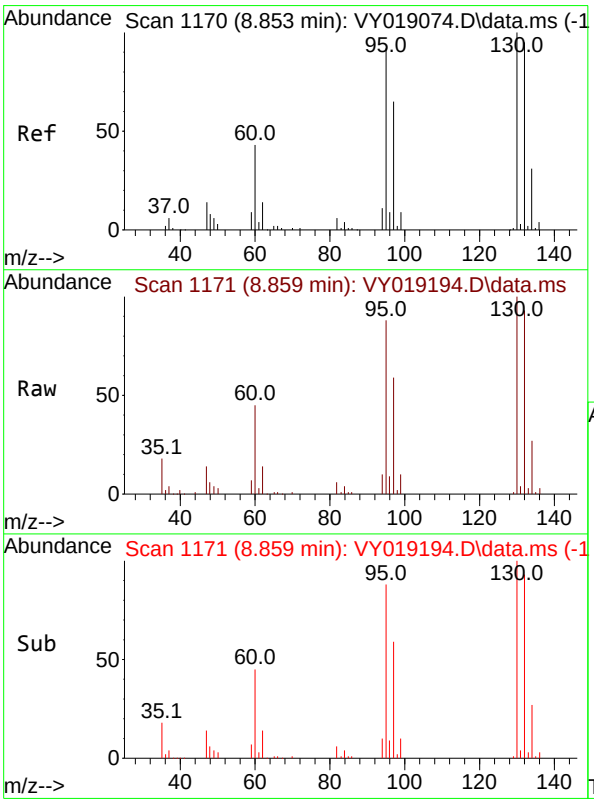
Ion	Ratio	Lower	Upper
43	100		
61	18.4	27.9	41.9#
87	13.7	13.1	19.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

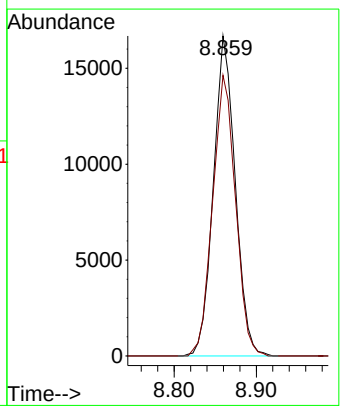
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

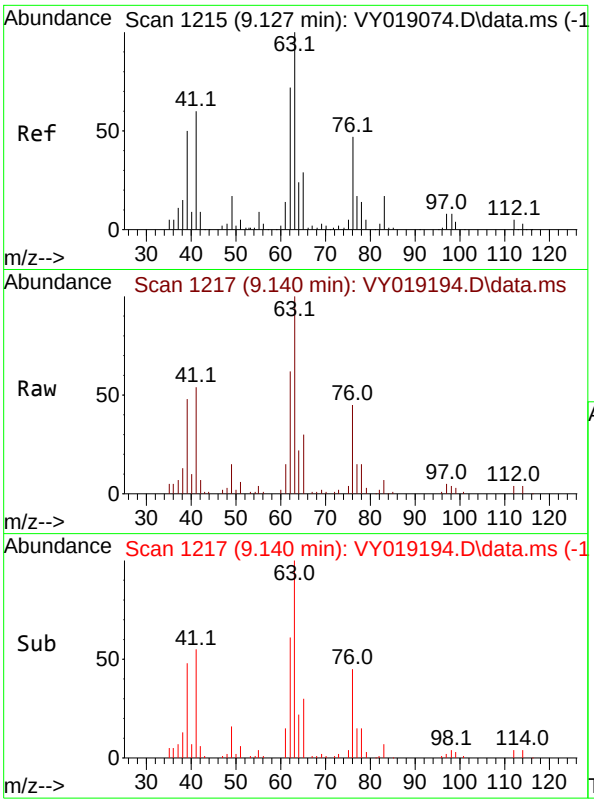


#44
Trichloroethene
Concen: 19.038 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:130 Resp: 30859

Ion	Ratio	Lower	Upper
130	100		
95	87.7	0.0	188.0

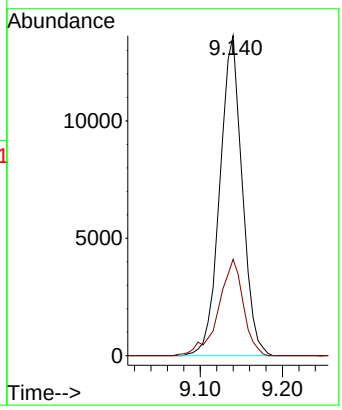




#45
1,2-Dichloropropane
Concen: 19.931 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 63 Resp: 2579

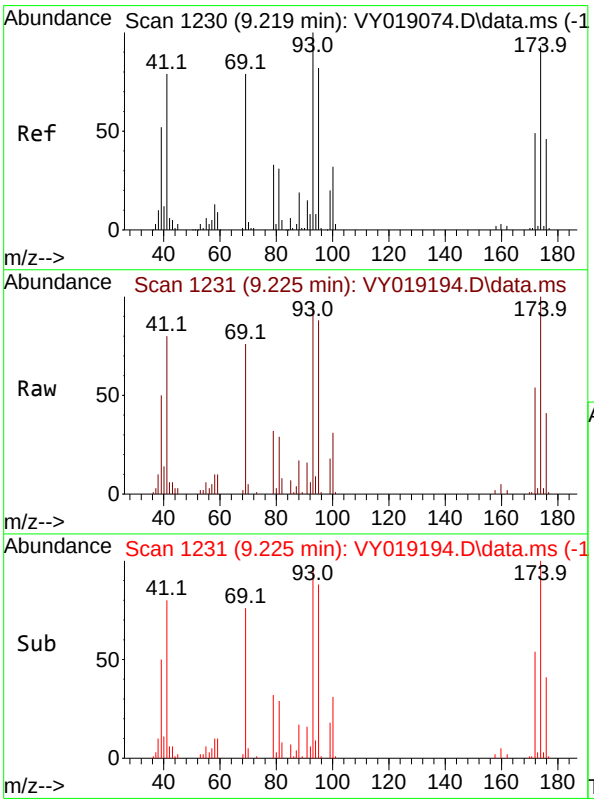
Ion	Ratio	Lower	Upper
63	100		
65	30.1	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

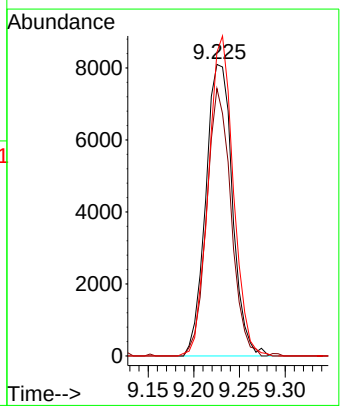
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

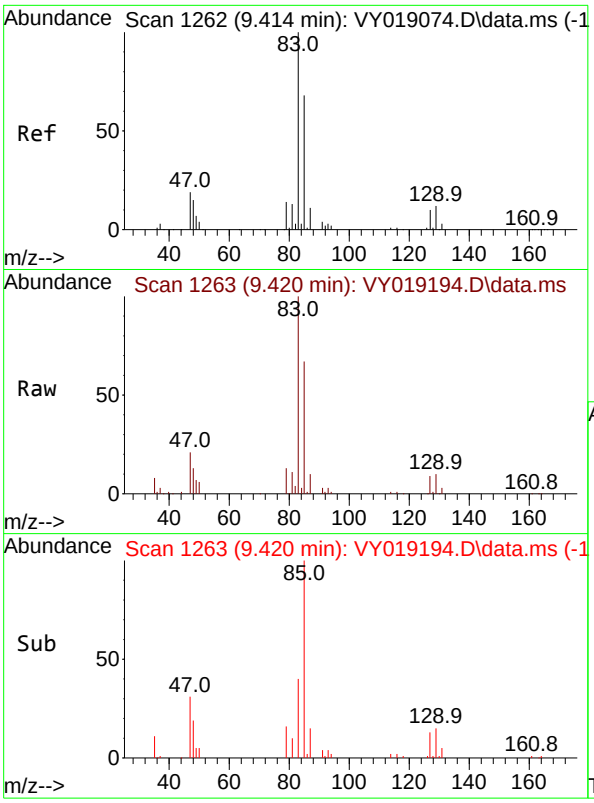


#46
Dibromomethane
Concen: 19.609 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 93 Resp: 16461

Ion	Ratio	Lower	Upper
93	100		
95	83.0	66.2	99.4
174	102.4	80.9	121.3

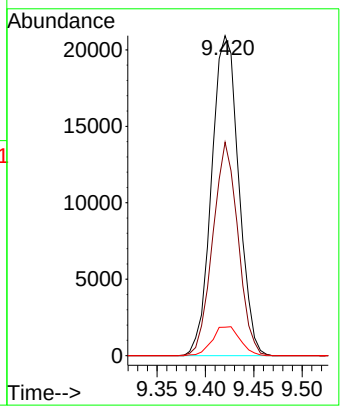




#47
Bromodichloromethane
Concen: 19.737 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 83 Resp: 4064

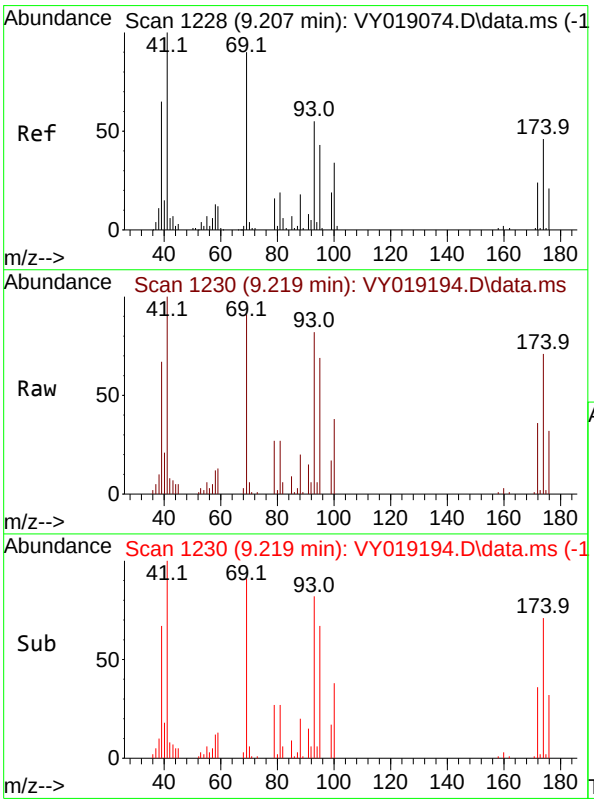
Ion	Ratio	Lower	Upper
83	100		
85	66.7	50.1	75.1
127	8.9	7.4	11.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

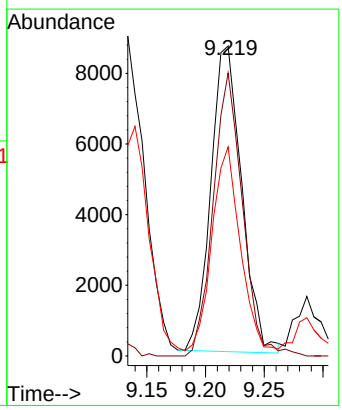
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

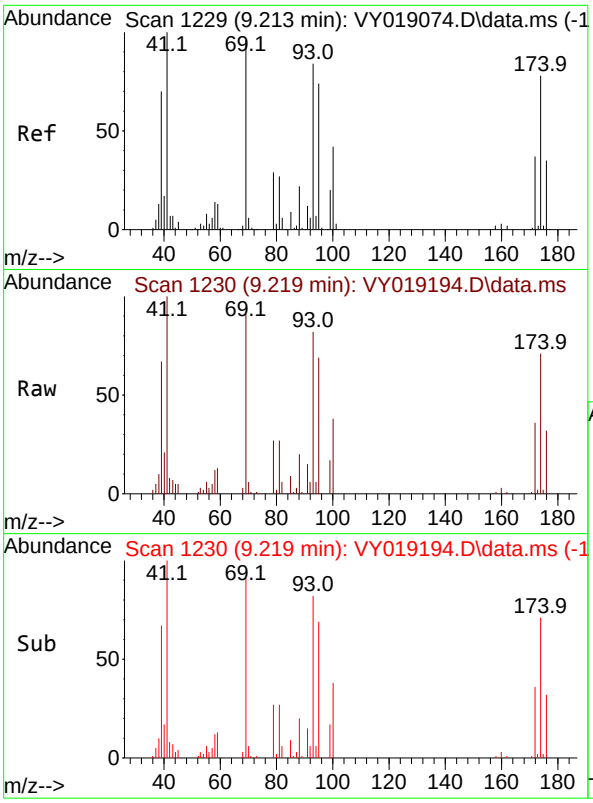


#48
Methyl methacrylate
Concen: 20.934 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 41 Resp: 15834

Ion	Ratio	Lower	Upper
41	100		
69	87.5	84.1	126.1
39	61.9	43.6	65.4

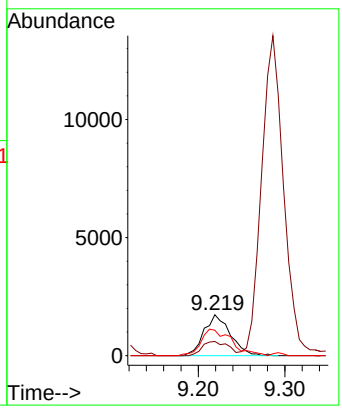




#49
1,4-Dioxane
Concen: 360.901 ug/l
RT: 9.219 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 88 Resp: 367

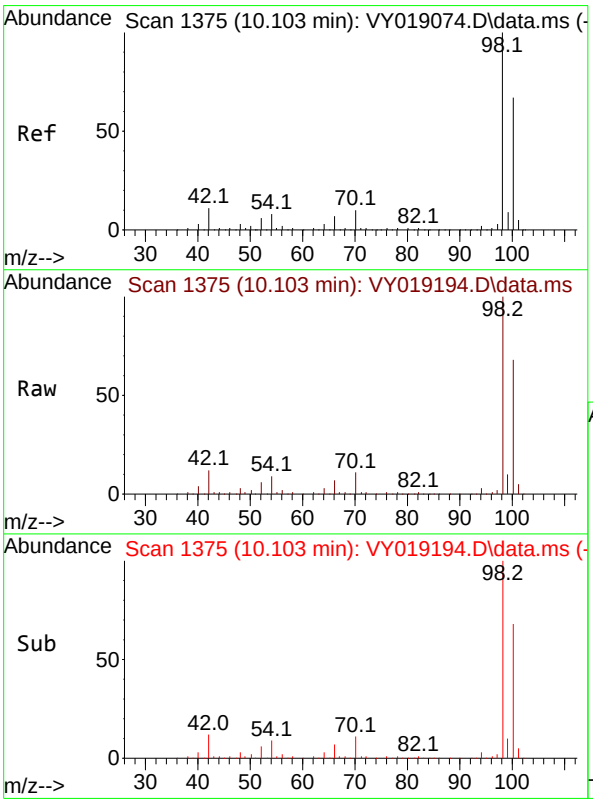
Ion	Ratio	Lower	Upper
88	100		
43	33.8	0.0	0.0#
58	74.2	49.3	73.9#



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

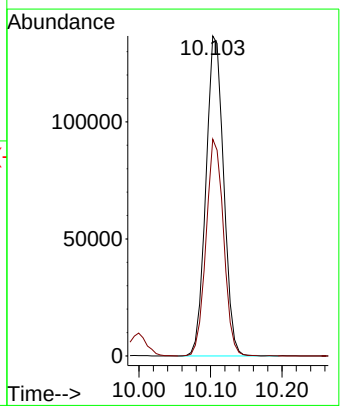
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

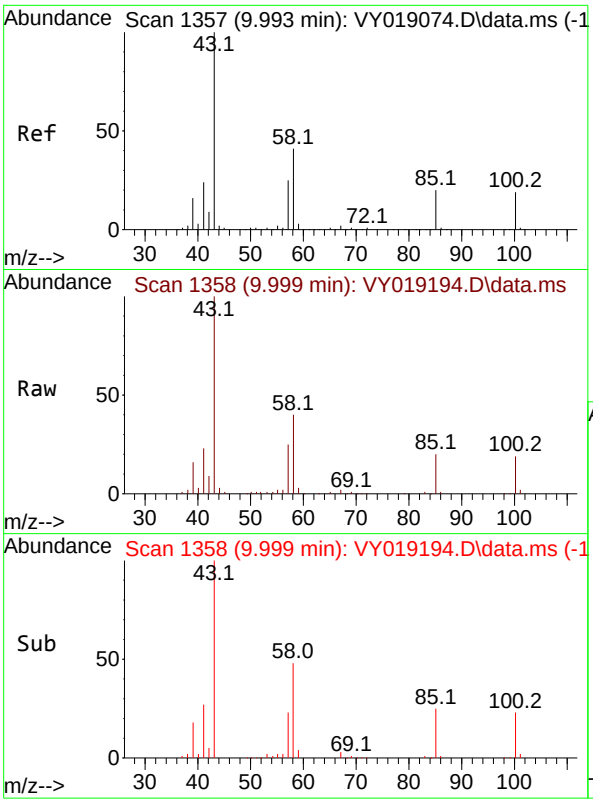


#50
Toluene-d8
Concen: 47.350 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 98 Resp: 235036

Ion	Ratio	Lower	Upper
98	100		
100	67.0	52.0	78.0

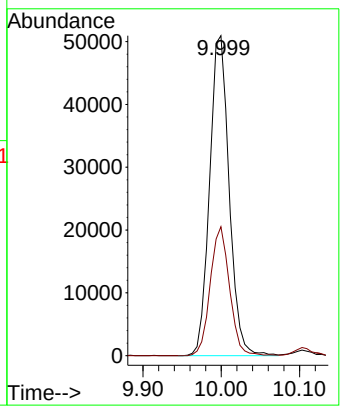




#51
4-Methyl-2-Pentanone
Concen: 98.132 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 43 Resp: 8839

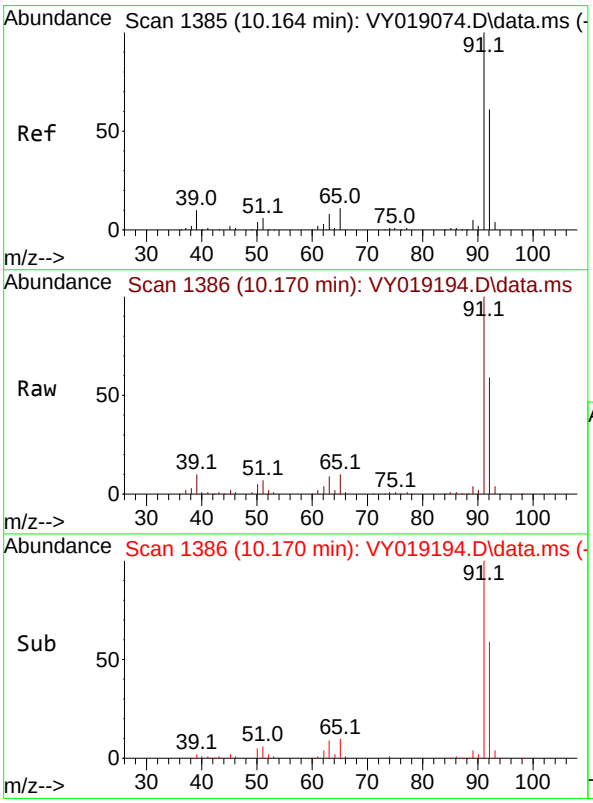
Ion	Ratio	Lower	Upper
43	100		
58	39.8	35.7	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

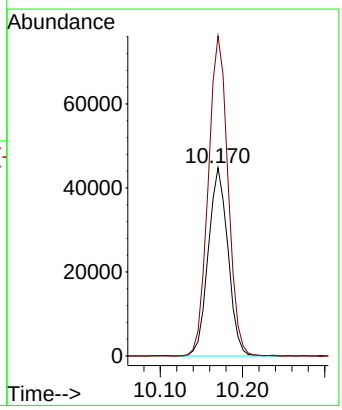
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

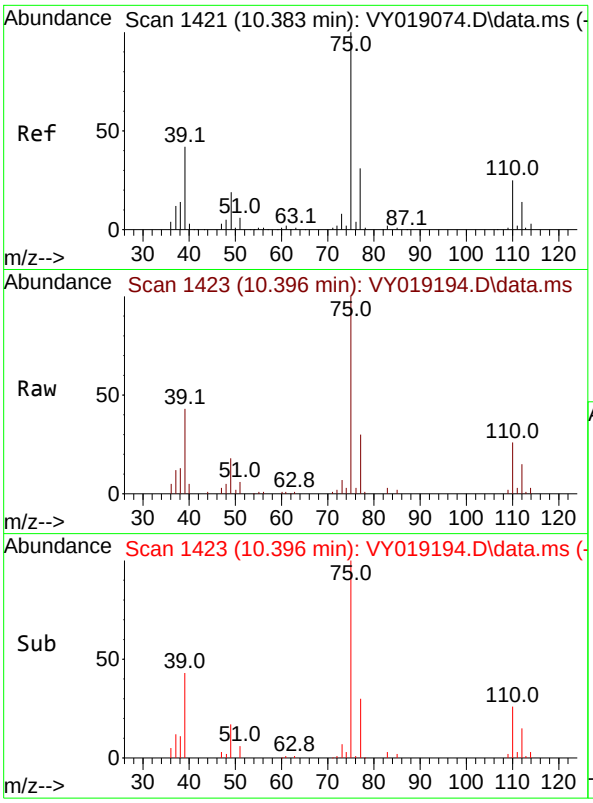


#52
Toluene
Concen: 19.511 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 92 Resp: 74398

Ion	Ratio	Lower	Upper
92	100		
91	170.8	139.0	208.6

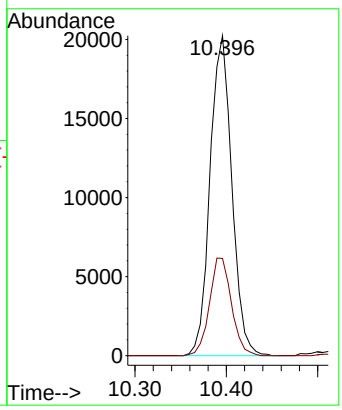




#53
t-1,3-Dichloropropene
Concen: 19.601 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.012 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 75 Resp: 3348

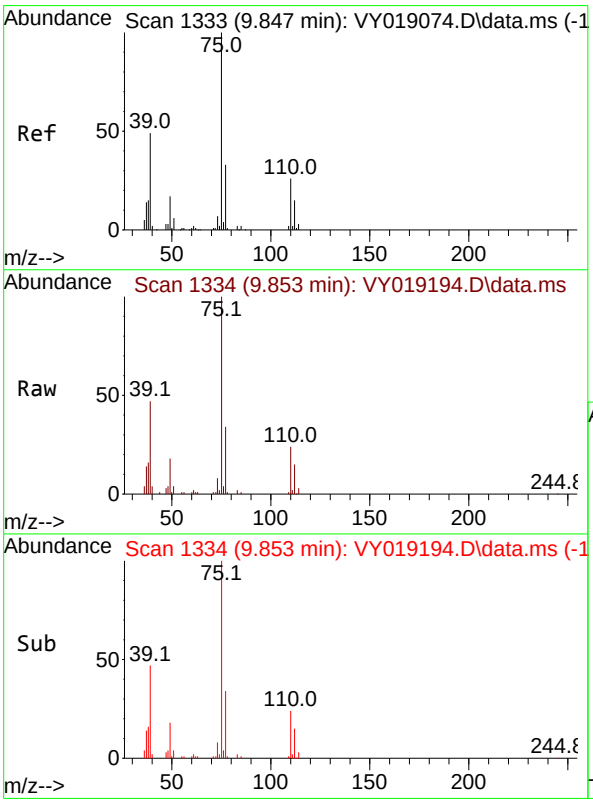
Ion	Ratio	Lower	Upper
75	100		
77	30.4	24.1	36.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

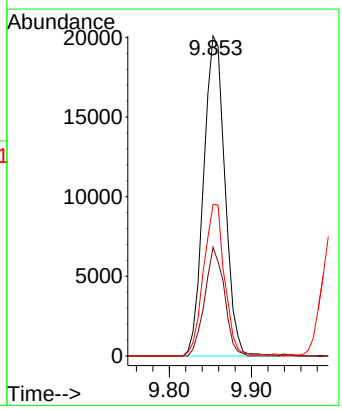
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

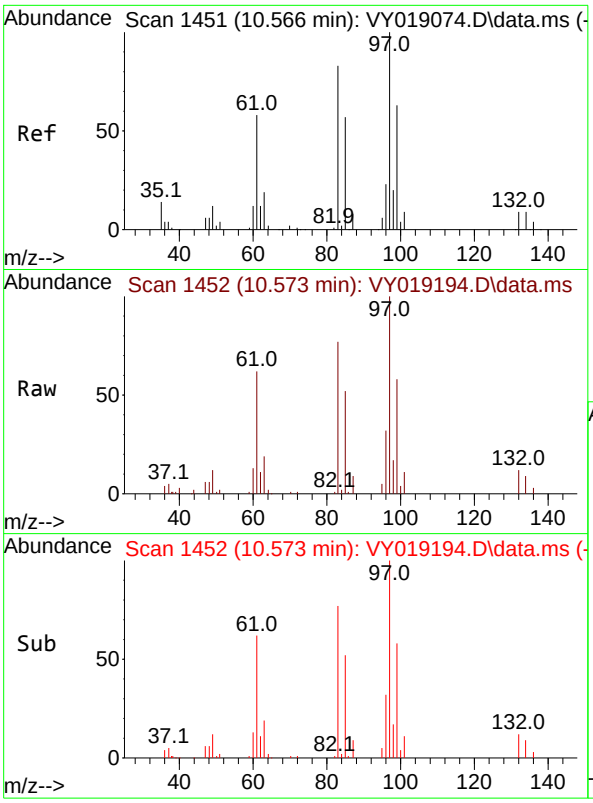


#54
cis-1,3-Dichloropropene
Concen: 17.568 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 75 Resp: 36096

Ion	Ratio	Lower	Upper
75	100		
77	33.9	25.4	38.0
39	47.4	29.8	44.6#

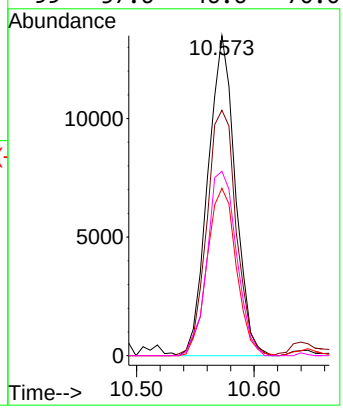




#55
1,1,2-Trichloroethane
Concen: 20.216 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 97 Resp: 2184

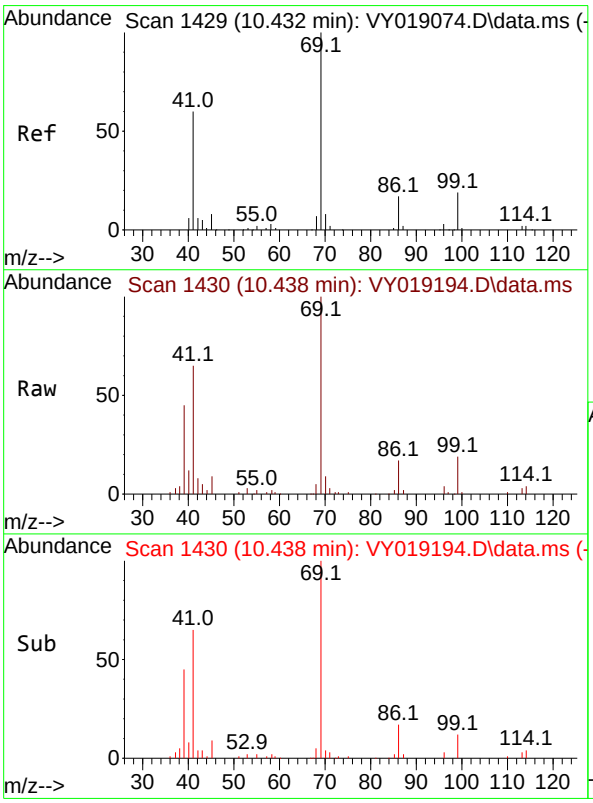
Ion	Ratio	Lower	Upper
97	100		
83	76.1	67.5	101.3
85	52.3	42.9	64.3
99	57.6	46.6	70.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

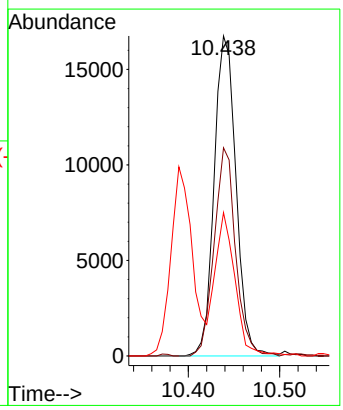
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

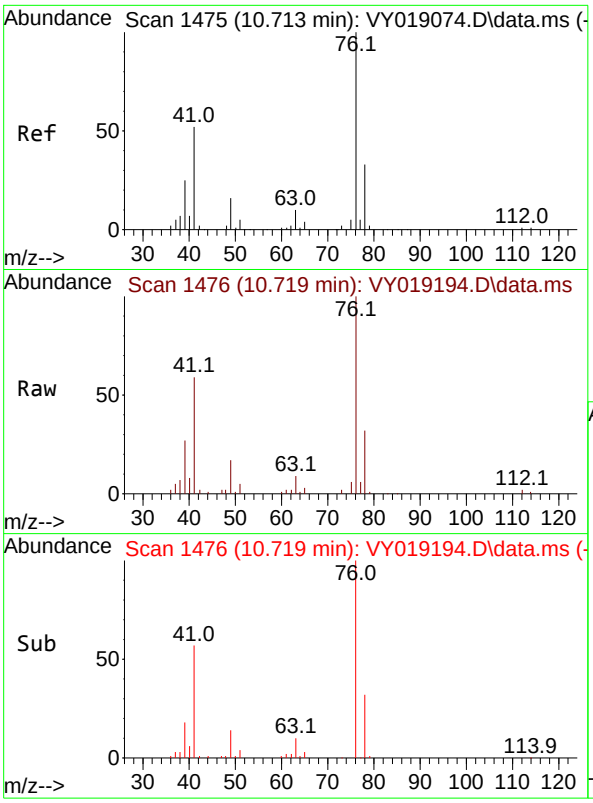


#56
Ethyl methacrylate
Concen: 19.705 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 69 Resp: 27873

Ion	Ratio	Lower	Upper
69	100		
41	63.9	42.3	63.5#
39	40.9	22.9	34.3#

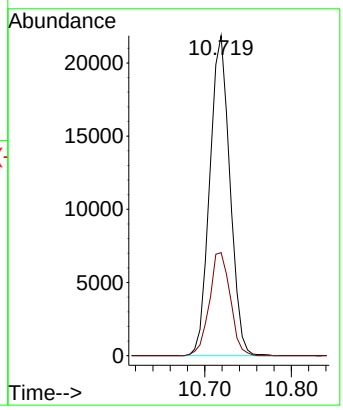




#57
1,3-Dichloropropane
Concen: 20.023 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 76 Resp: 3527

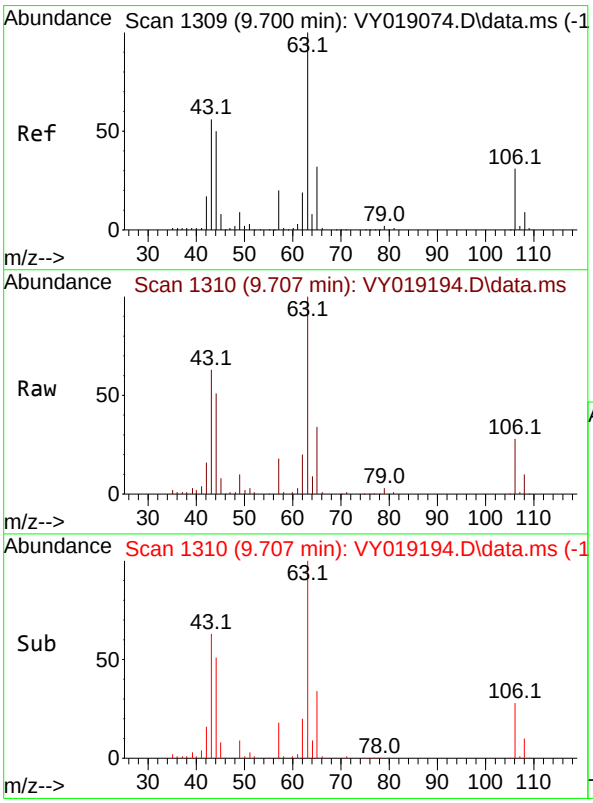
Ion	Ratio	Lower	Upper
76	100		
78	33.5	26.2	39.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

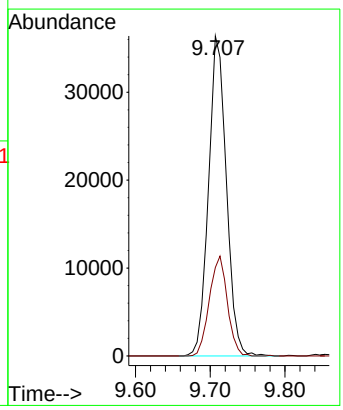
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

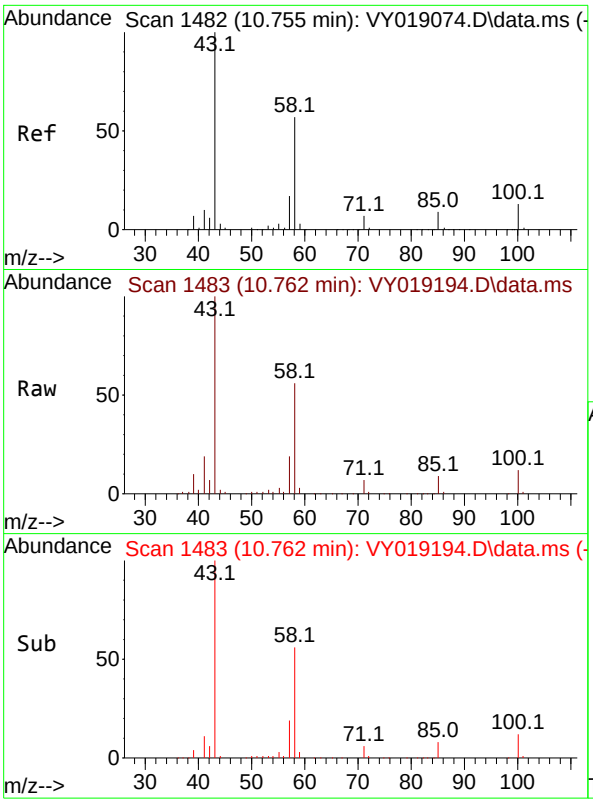


#58
2-Chloroethyl Vinyl ether
Concen: 89.868 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 63 Resp: 60305

Ion	Ratio	Lower	Upper
63	100		
106	31.4	23.7	35.5





#59
2-Hexanone
Concen: 97.652 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

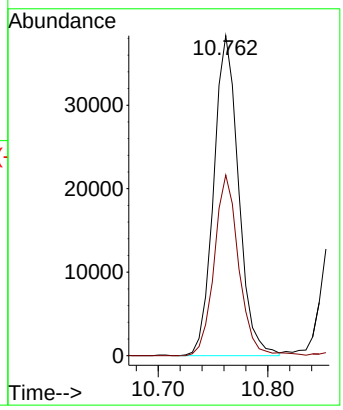
Tgt Ion: 43 Resp: 6043

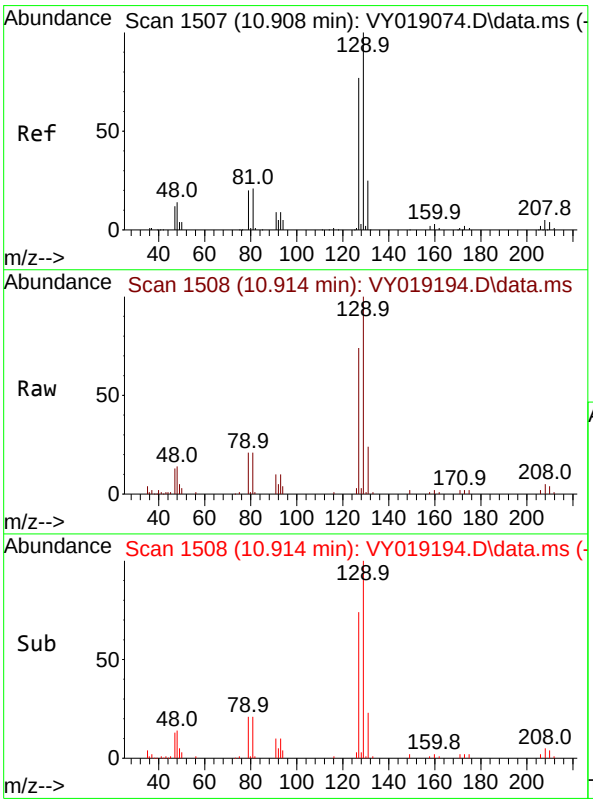
Ion	Ratio	Lower	Upper
43	100		
58	55.7	31.4	94.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

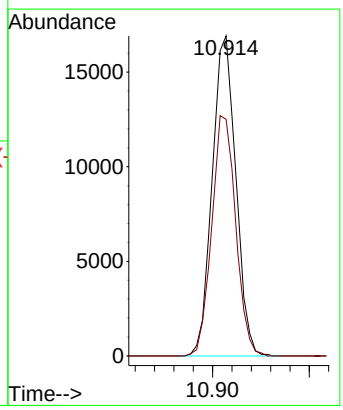


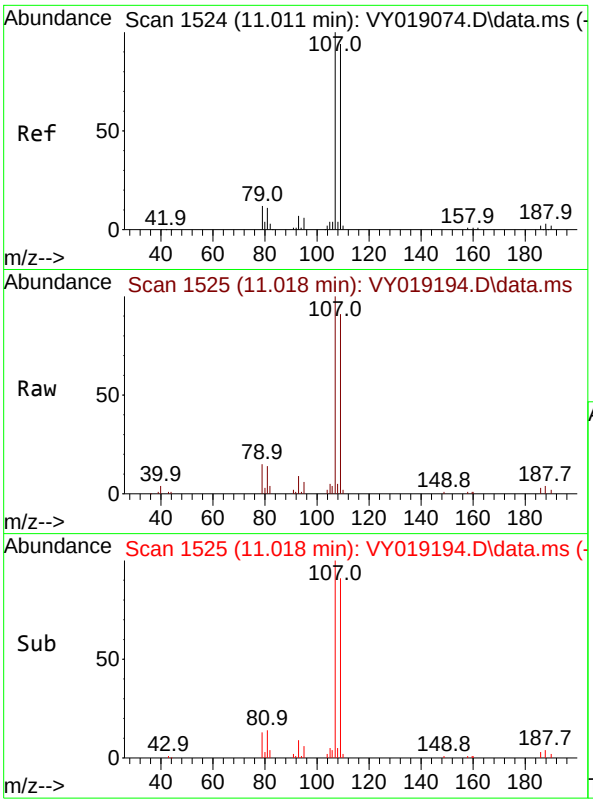


#60
Dibromochloromethane
Concen: 19.495 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:129 Resp: 28694

Ion	Ratio	Lower	Upper
129	100		
127	76.1	39.0	117.0

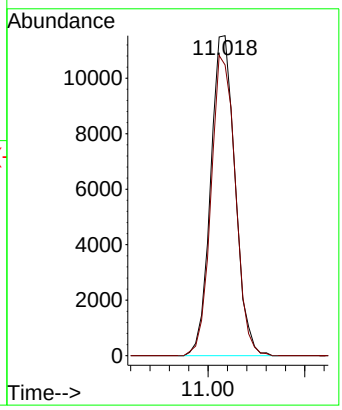




#61
1,2-Dibromoethane
Concen: 19.343 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:107 Resp: 2020

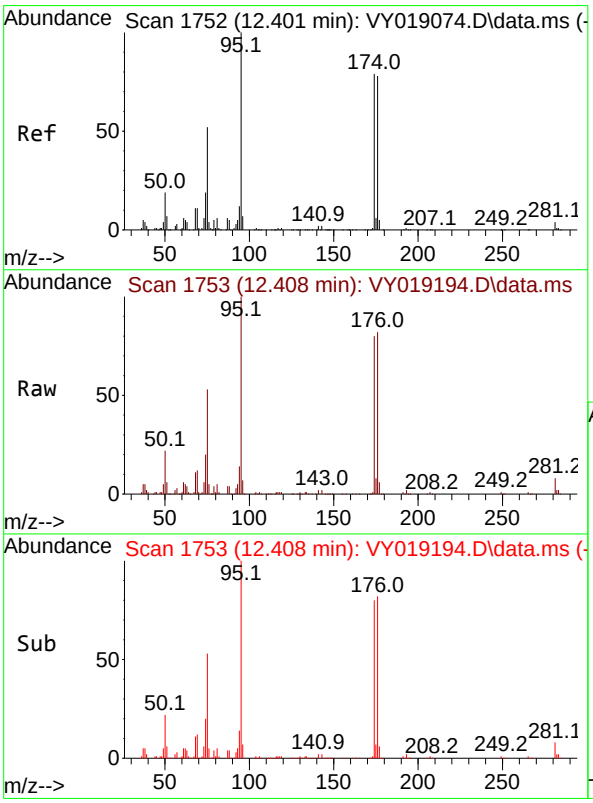
Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.9	113.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

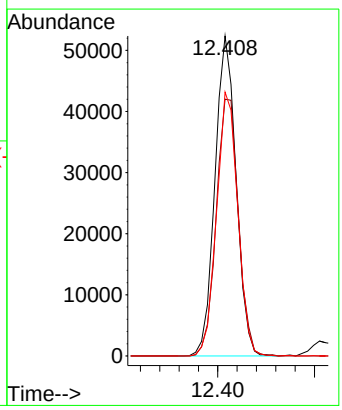
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

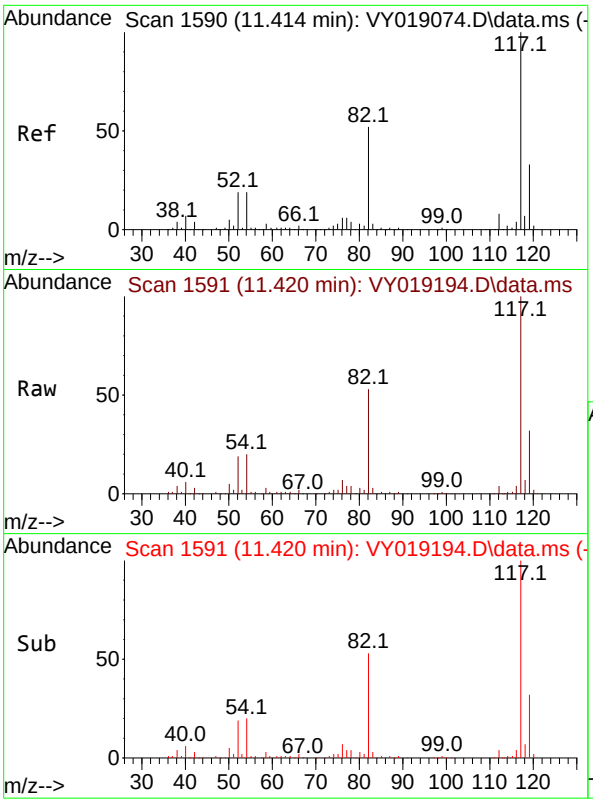


#62
4-Bromofluorobenzene
Concen: 46.879 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 95 Resp: 79327

Ion	Ratio	Lower	Upper
95	100		
174	84.2	0.0	175.6
176	82.5	0.0	171.4

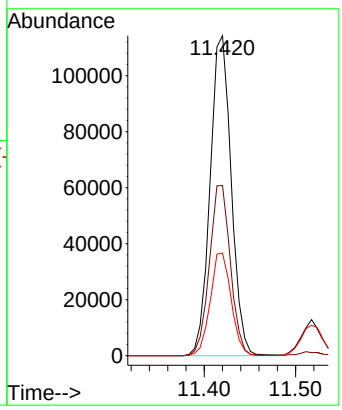




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:117 Resp: 18338

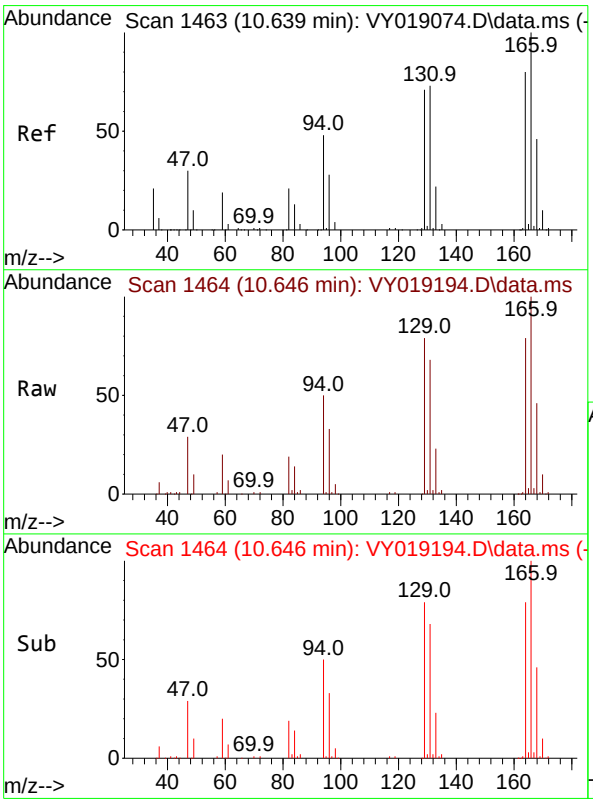
Ion	Ratio	Lower	Upper
117	100		
82	53.2	42.4	63.6
119	32.0	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations APPROVED

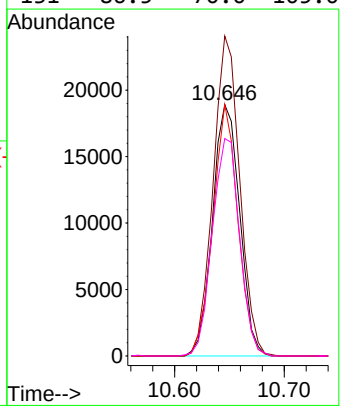
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

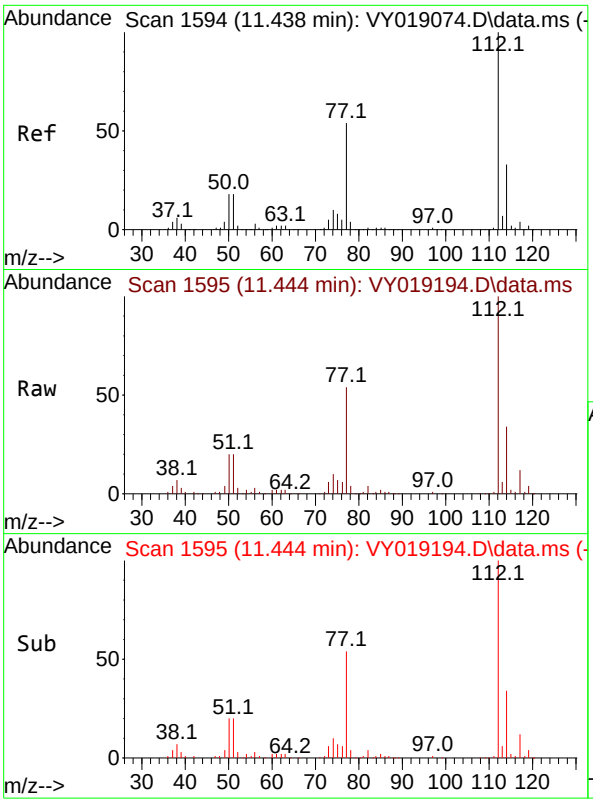


#64
Tetrachloroethene
Concen: 20.301 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:164 Resp: 32540

Ion	Ratio	Lower	Upper
164	100		
166	127.3	102.6	154.0
129	100.0	72.0	108.0
131	86.5	70.0	105.0

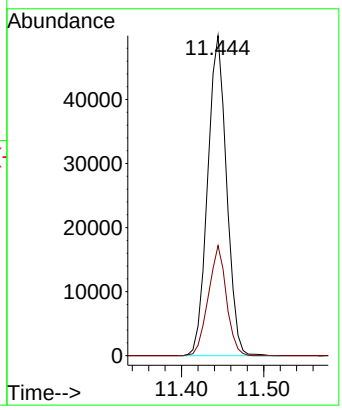




#65
Chlorobenzene
Concen: 18.903 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:112 Resp: 7982

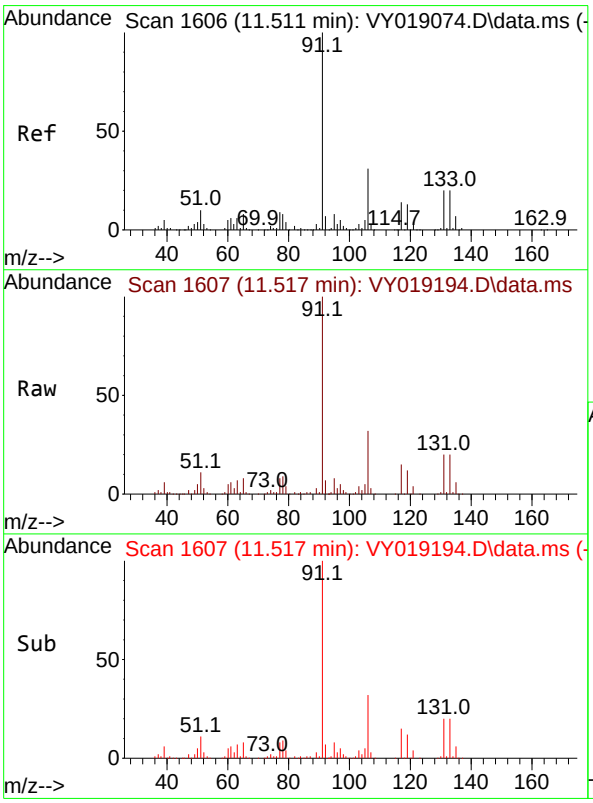
Ion	Ratio	Lower	Upper
112	100		
114	34.4	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

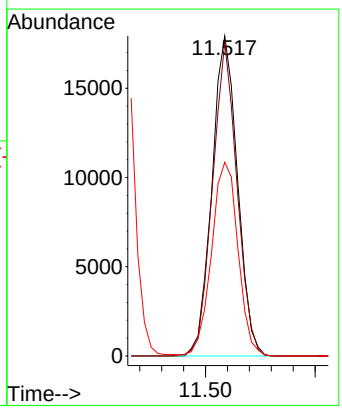
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

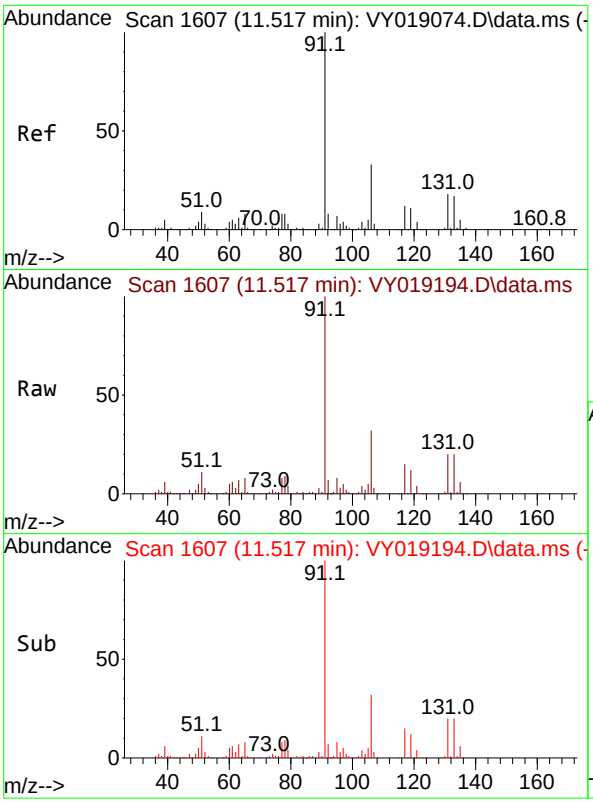


#66
1,1,1,2-Tetrachloroethane
Concen: 19.533 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:131 Resp: 29005

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.8	143.3
119	62.8	34.1	102.2





#67
Ethyl Benzene
Concen: 18.937 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

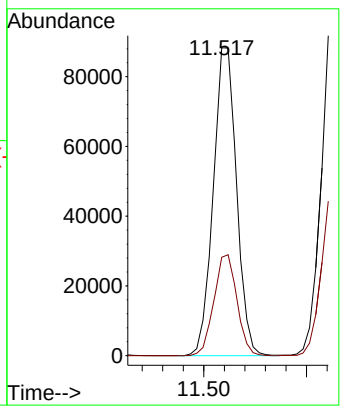
Tgt Ion: 91 Resp: 13879

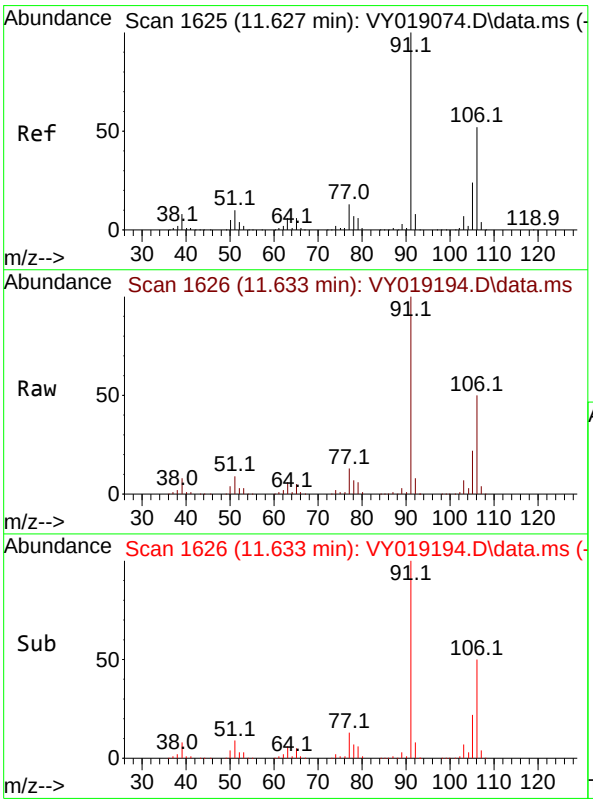
Ion	Ratio	Lower	Upper
91	100		
106	32.0	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

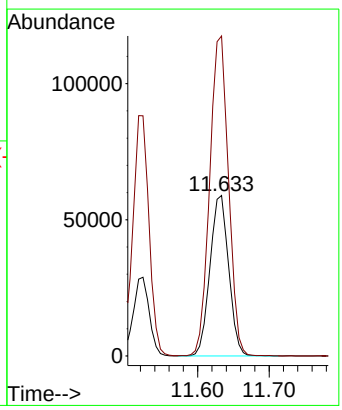


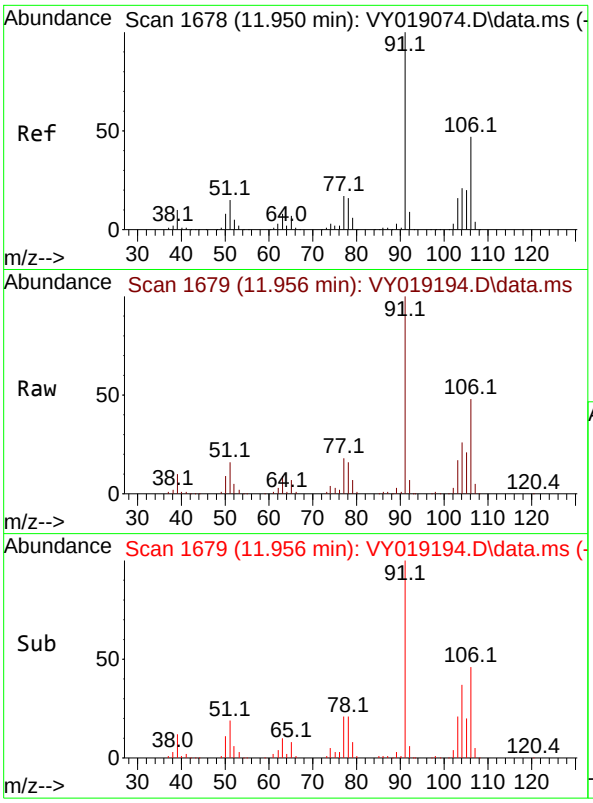


#68
m/p-Xylenes
Concen: 36.832 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:106 Resp: 107110

Ion	Ratio	Lower	Upper
106	100		
91	200.5	156.0	234.0

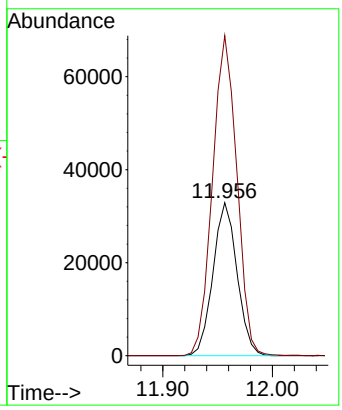




#69
o-Xylene
Concen: 18.623 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:106 Resp: 5015

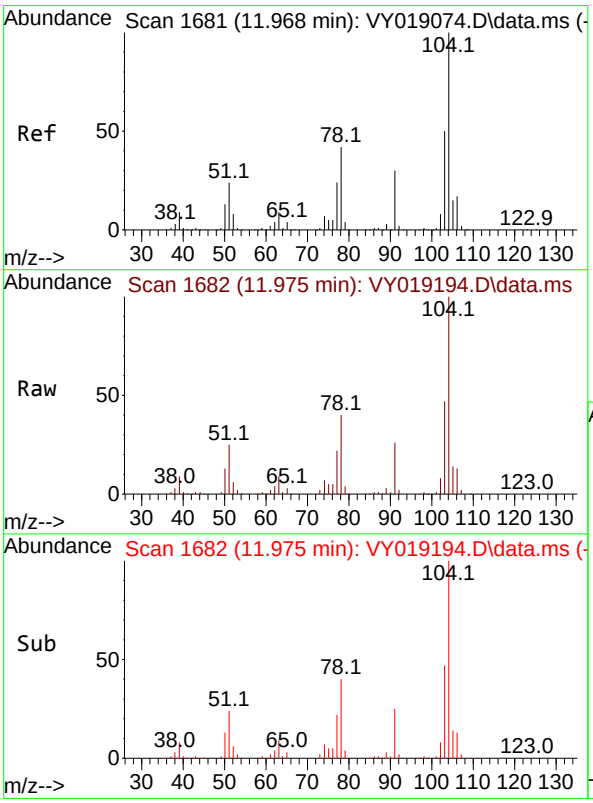
Ion	Ratio	Lower	Upper
106	100		
91	212.1	103.6	310.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

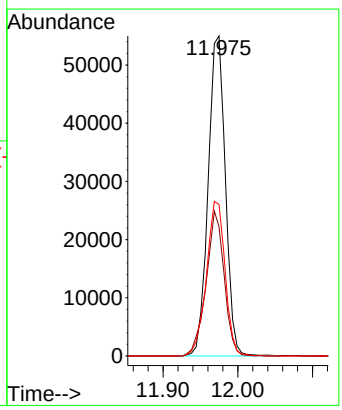
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

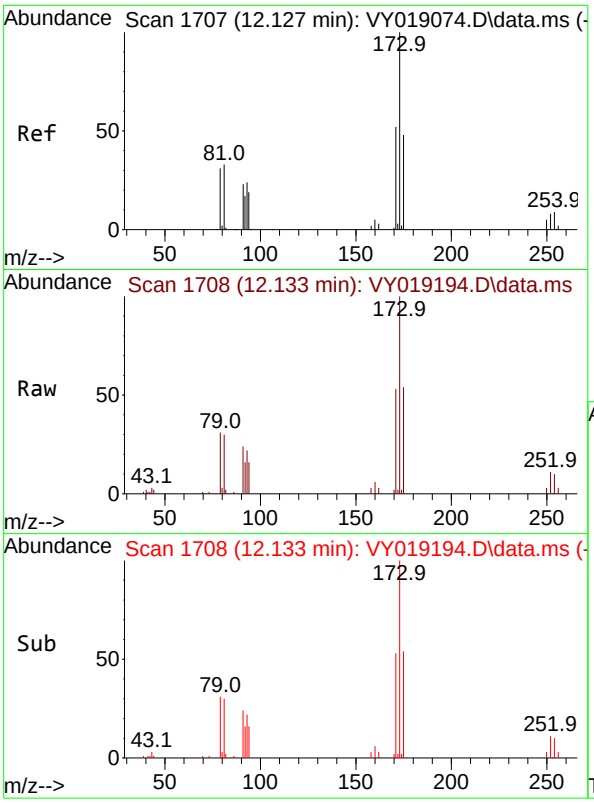


#70
Styrene
Concen: 19.252 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:104 Resp: 88410

Ion	Ratio	Lower	Upper
104	100		
78	47.1	37.0	55.4
103	52.5	44.2	66.2

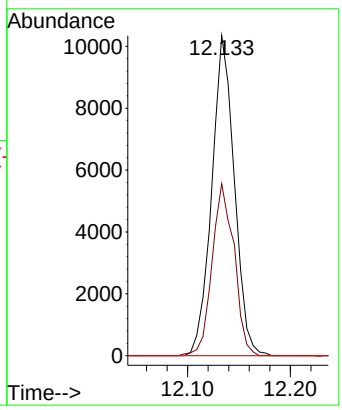




#71
Bromoform
Concen: 18.606 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:173 Resp: 1579

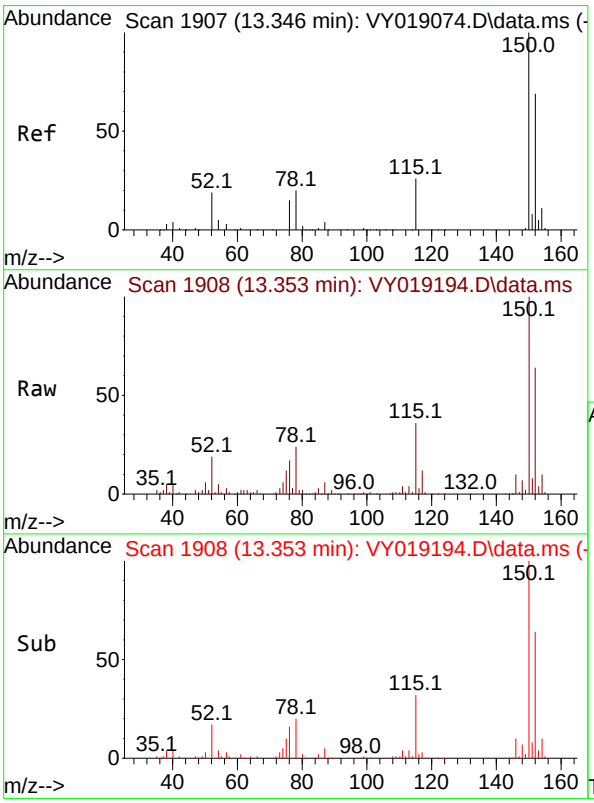
Ion	Ratio	Lower	Upper
173	100		
175	52.2	25.1	75.3
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

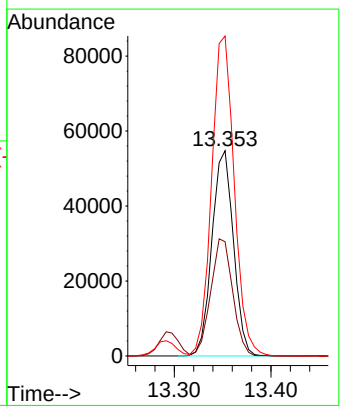
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

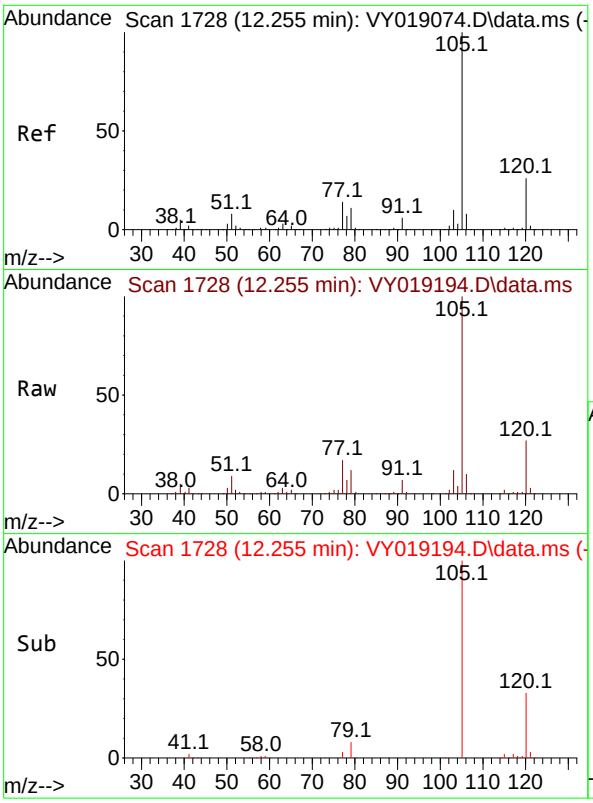


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:152 Resp: 84746

Ion	Ratio	Lower	Upper
152	100		
115	58.3	28.2	84.7
150	163.6	0.0	345.6





#73
Isopropylbenzene
Concen: 20.368 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

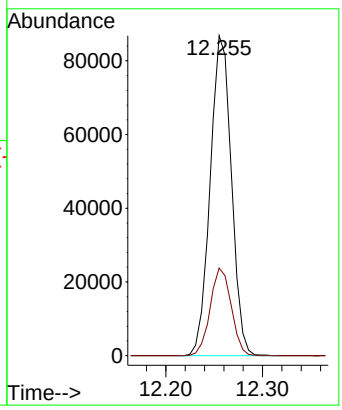
Tgt Ion:105 Resp: 13230

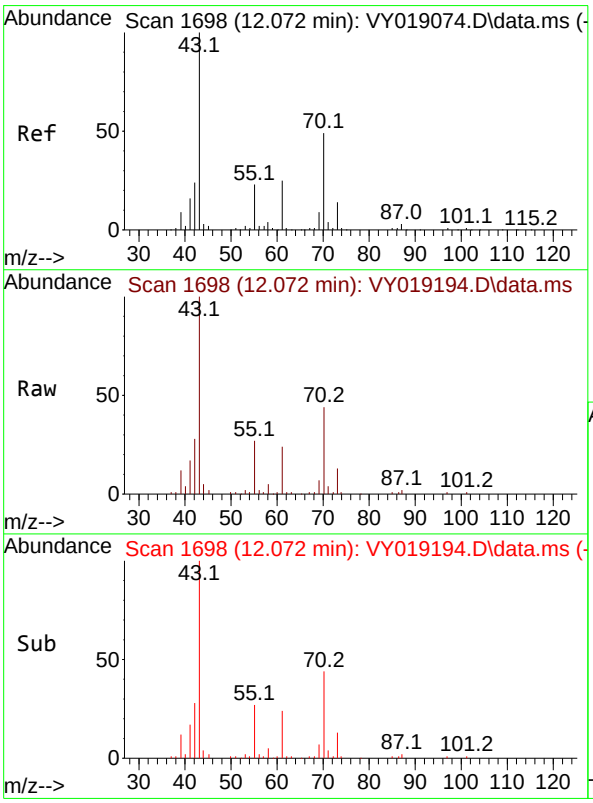
Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.4	40.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

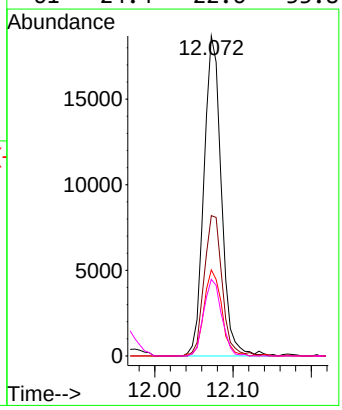


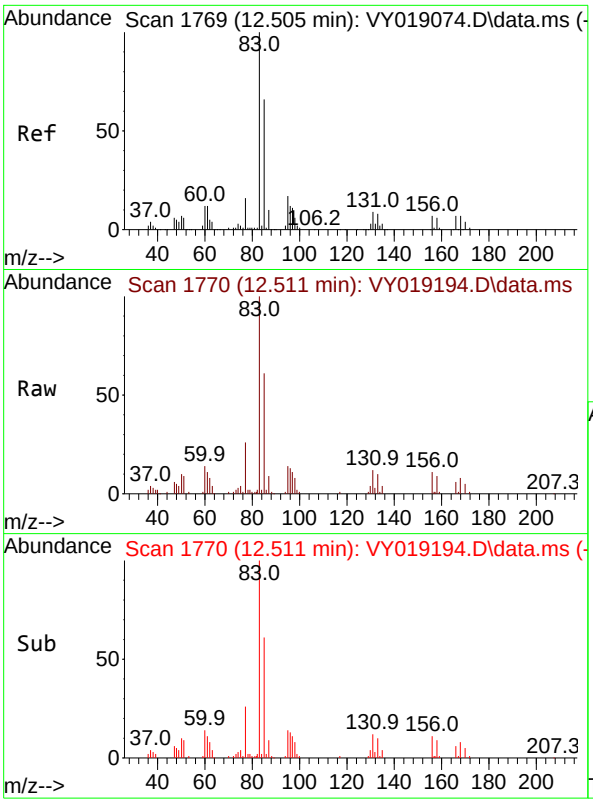


#74
N-amyl acetate
Concen: 20.427 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 43 Resp: 28932

Ion	Ratio	Lower	Upper
43	100		
70	45.4	41.4	62.2
55	27.2	23.3	34.9
61	24.4	22.6	33.8

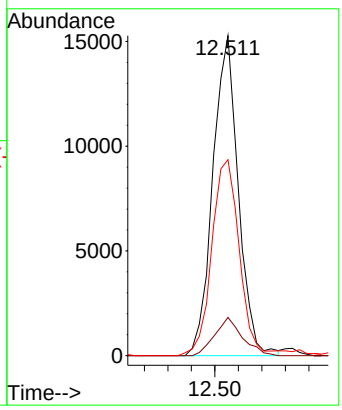




#75
1,1,2,2-Tetrachloroethane
Concen: 19.921 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 83 Resp: 2303

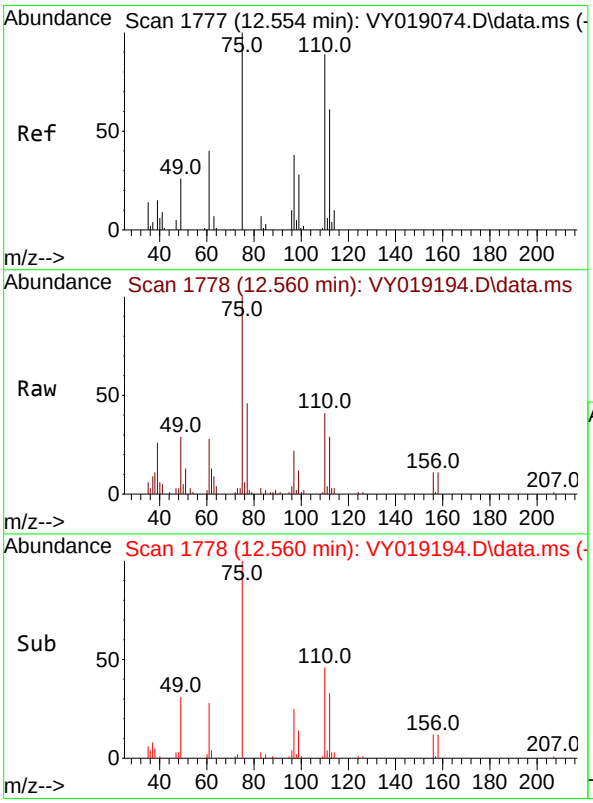
Ion	Ratio	Lower	Upper
83	100		
131	13.0	5.0	14.9
85	65.8	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

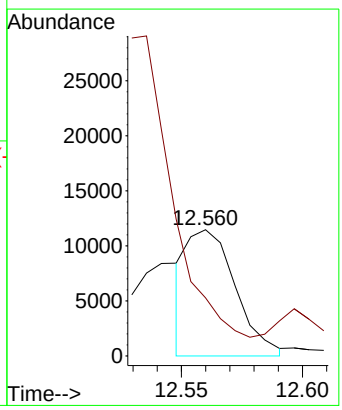
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

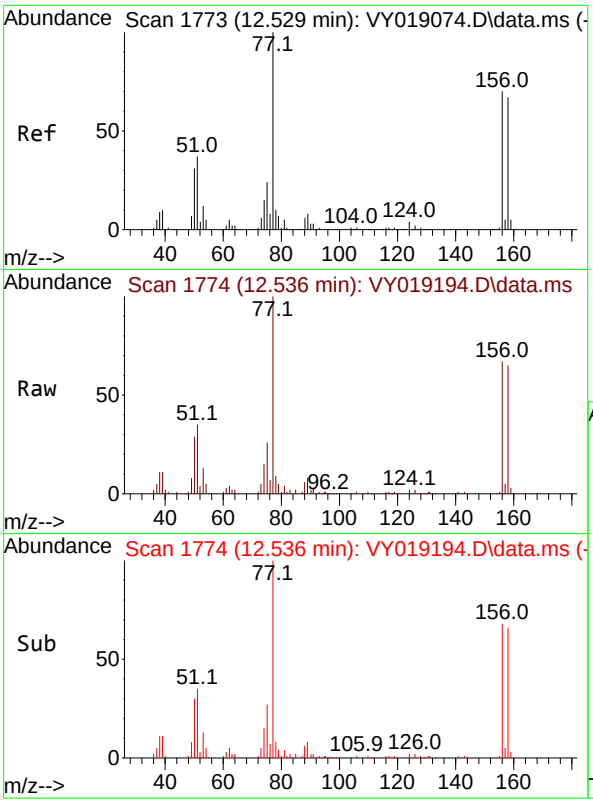


#76
1,2,3-Trichloropropane
Concen: 19.196 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 75 Resp: 16043

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 20.197 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

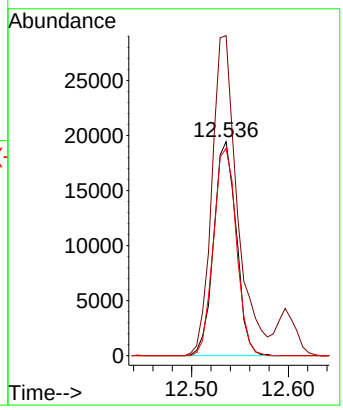
Tgt Ion:156 Resp: 3150

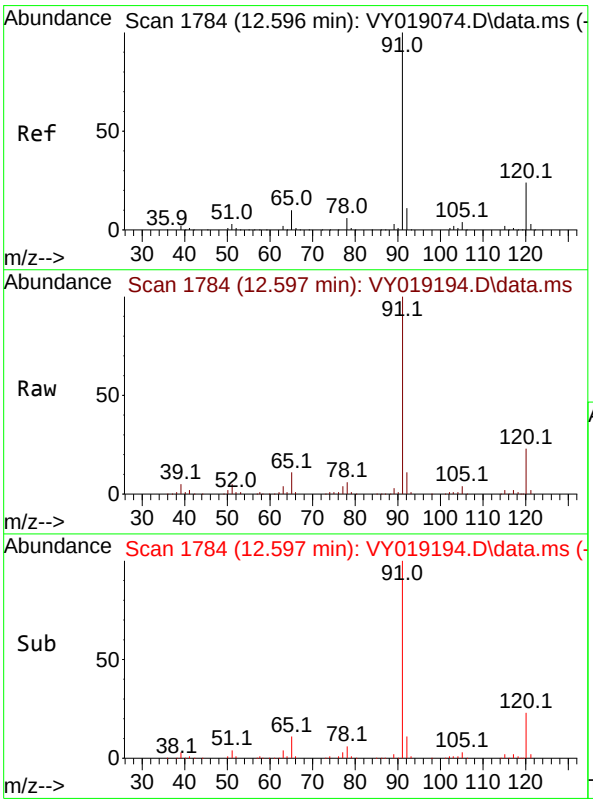
Ion	Ratio	Lower	Upper
156	100		
77	168.4	87.1	261.3
158	98.6	48.6	145.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

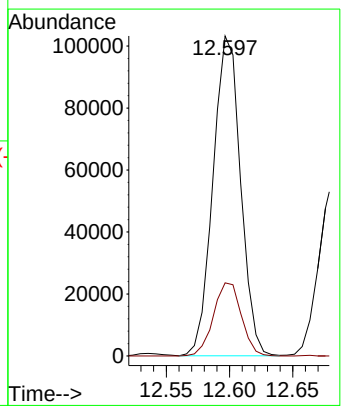


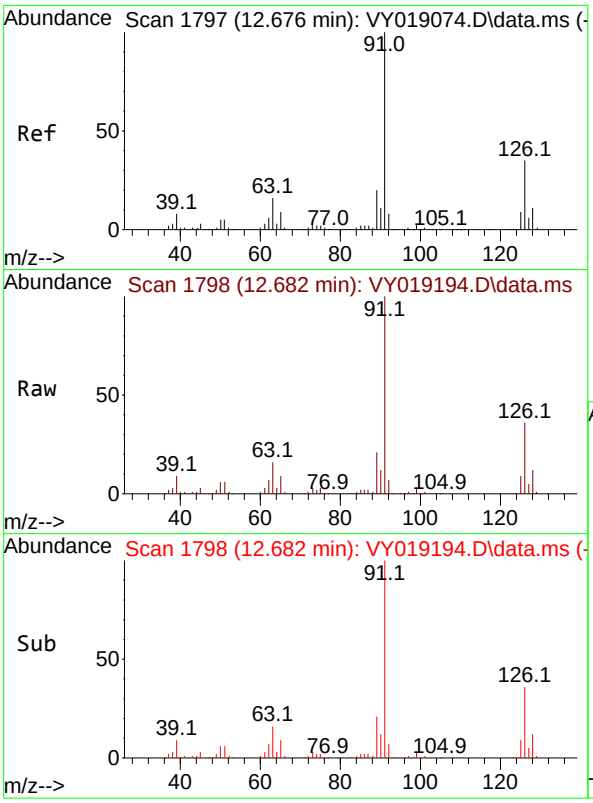


#78
n-propylbenzene
Concen: 20.145 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 91 Resp: 156425

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.4

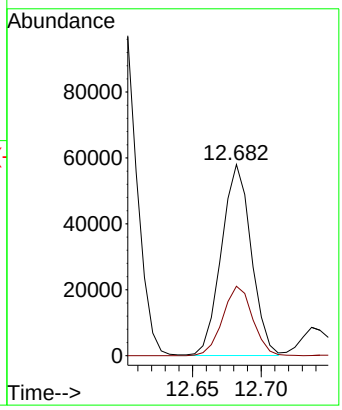




#79
2-Chlorotoluene
Concen: 20.196 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 91 Resp: 8791

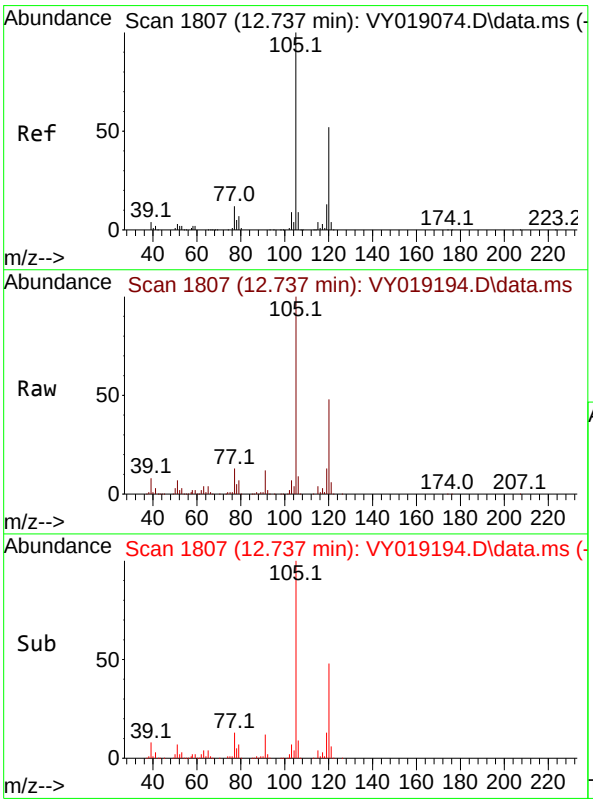
Ion	Ratio	Lower	Upper
91	100		
126	36.3	17.8	53.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

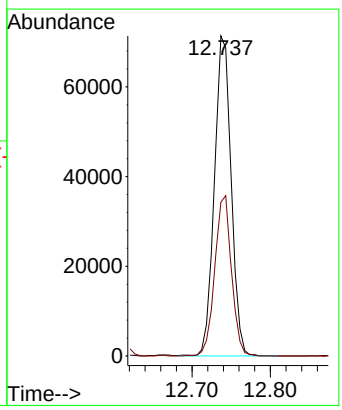
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

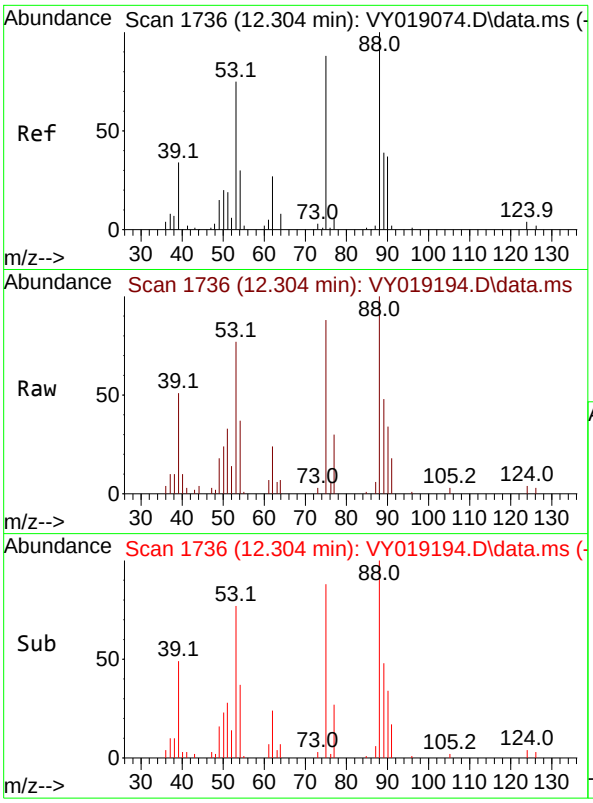


#80
1,3,5-Trimethylbenzene
Concen: 20.125 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:105 Resp: 106489

Ion	Ratio	Lower	Upper
105	100		
120	49.8	25.1	75.2





#81
trans-1,4-Dichloro-2-butene
Concen: 18.389 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

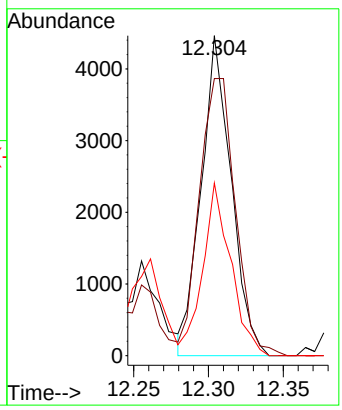
Tgt Ion: 75 Resp: 622

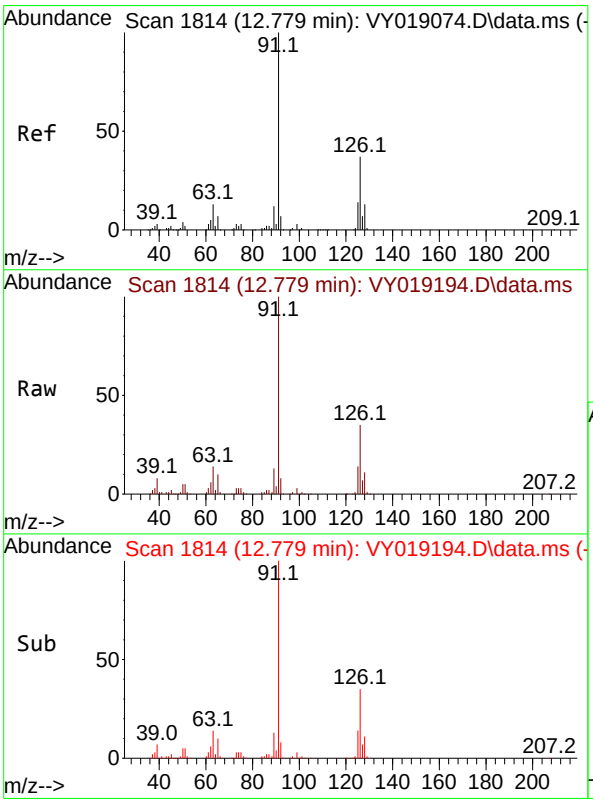
Ion	Ratio	Lower	Upper
75	100		
53	103.5	66.8	100.2
89	50.4	35.8	53.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

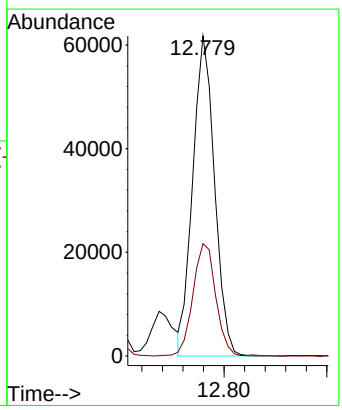


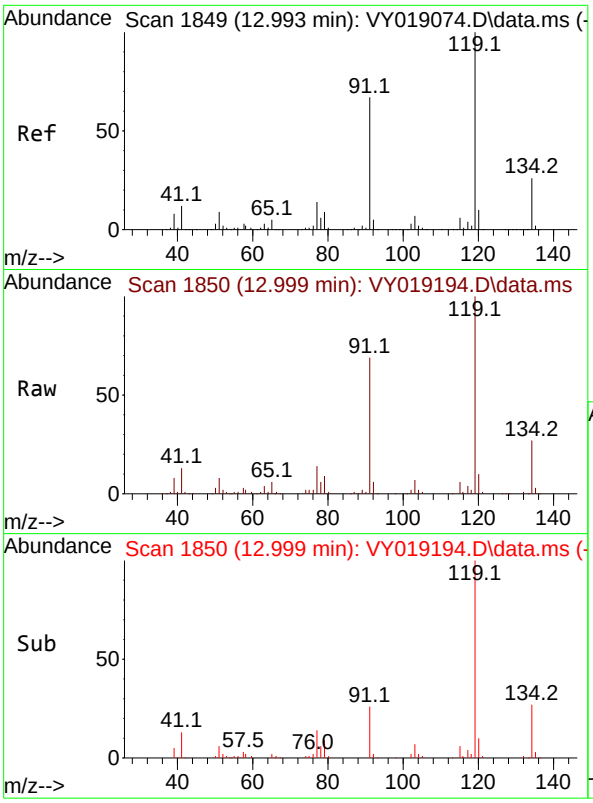


#82
4-Chlorotoluene
Concen: 20.082 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 91 Resp: 90955

Ion	Ratio	Lower	Upper
91	100		
126	36.7	17.6	52.9

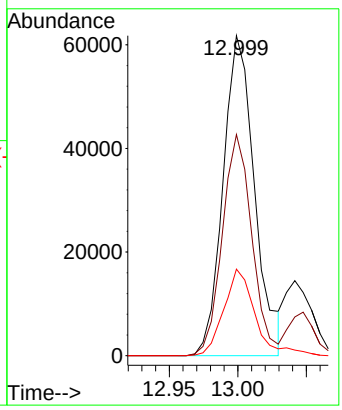




#83
tert-Butylbenzene
Concen: 20.226 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:119 Resp: 9883

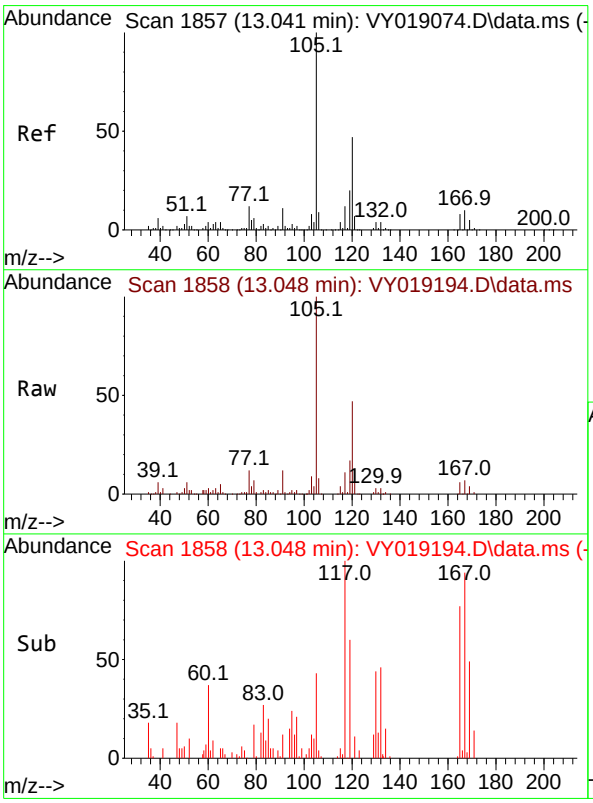
Ion	Ratio	Lower	Upper
119	100		
91	65.0	31.3	93.8
134	27.0	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

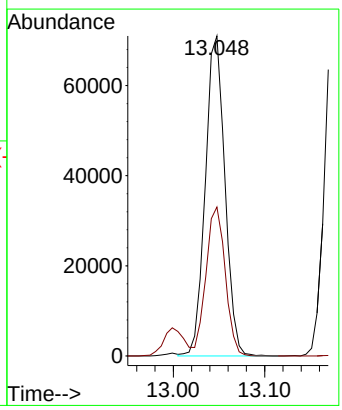
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

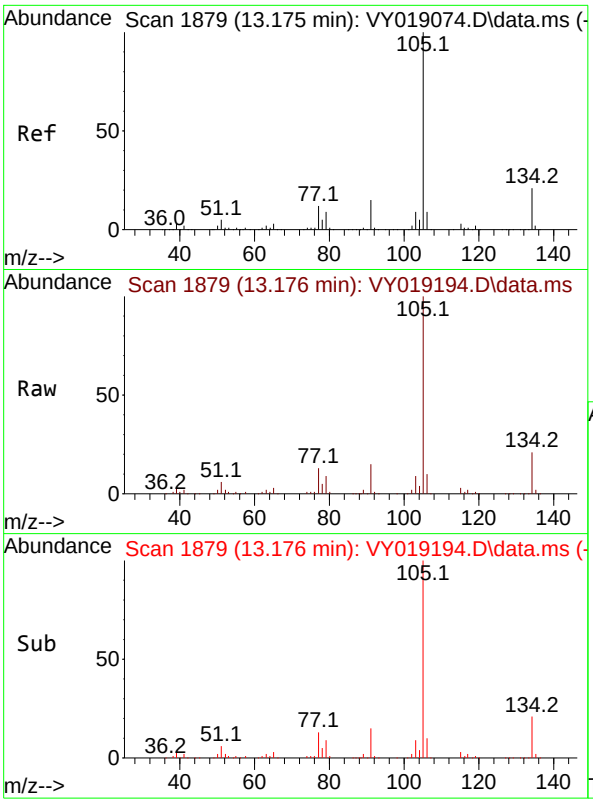


#84
1,2,4-Trimethylbenzene
Concen: 20.027 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:105 Resp: 105620

Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.2	69.6





#85
sec-Butylbenzene
Concen: 19.808 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

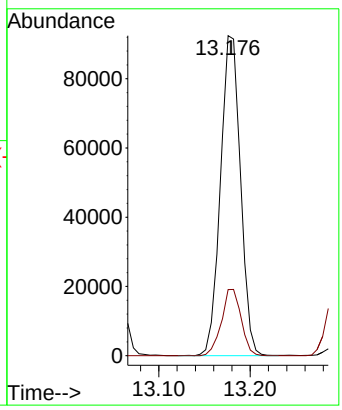
Tgt Ion:105 Resp: 14105

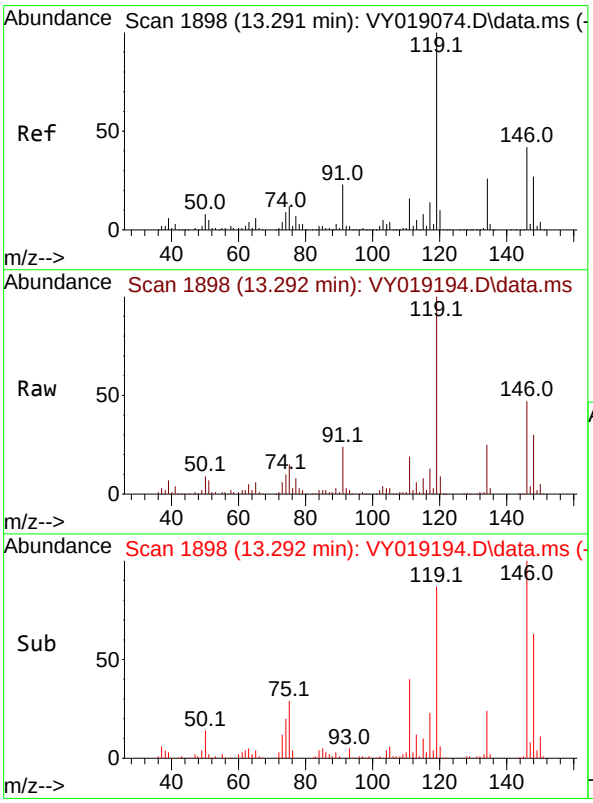
Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.1	30.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

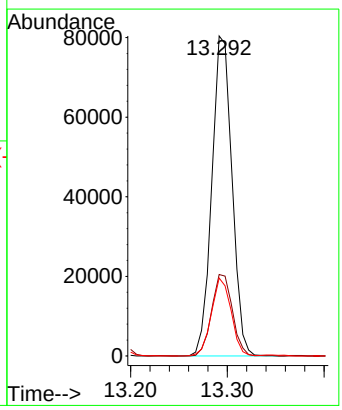


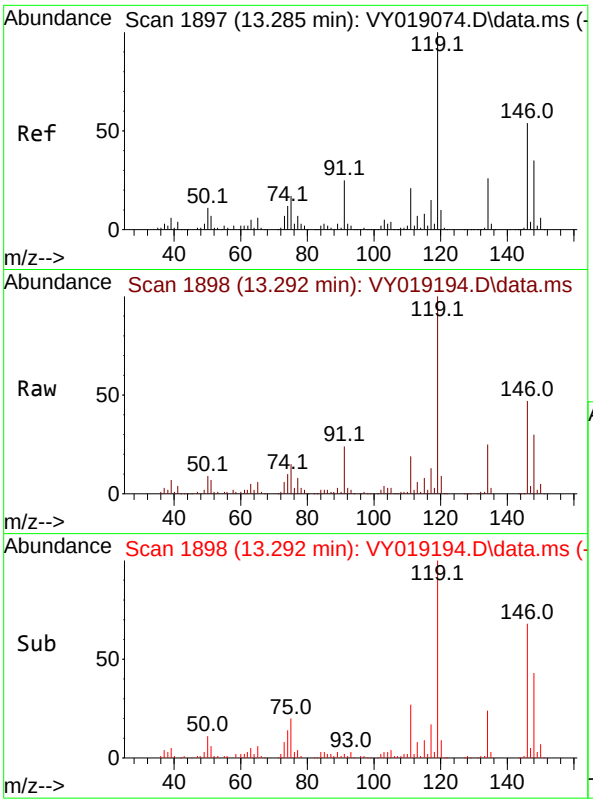


#86
p-Isopropyltoluene
Concen: 19.860 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:119 Resp: 116166

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.1	39.3
91	23.8	10.7	32.1

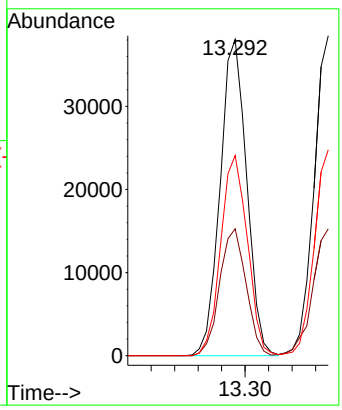




#87
1,3-Dichlorobenzene
Concen: 19.400 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:146 Resp: 5968

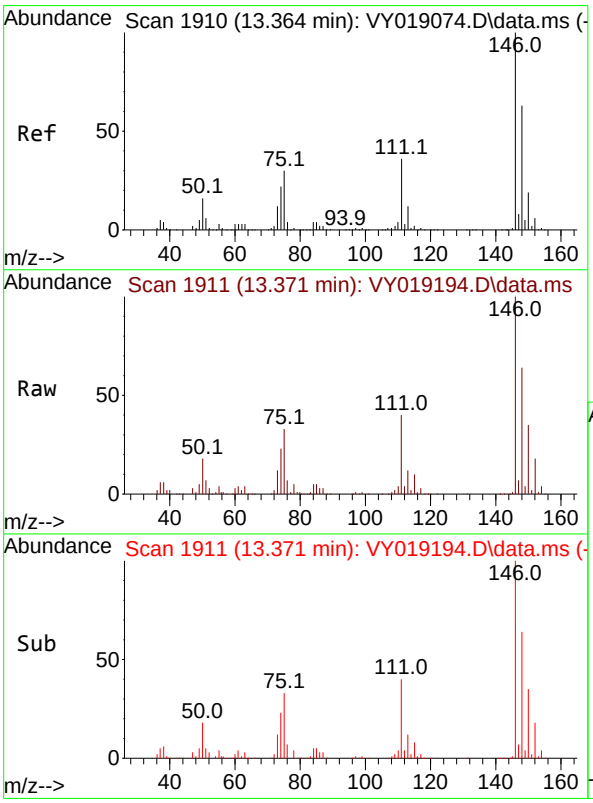
Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.0	57.0
148	63.7	31.7	95.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

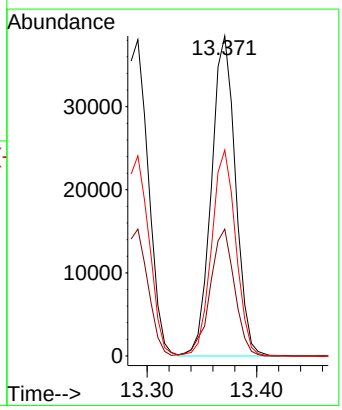
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

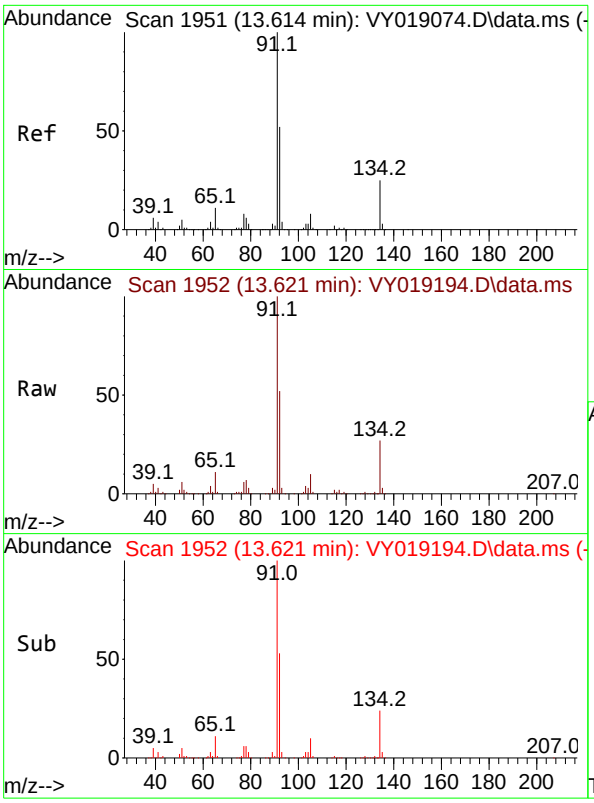


#88
1,4-Dichlorobenzene
Concen: 19.249 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:146 Resp: 58865

Ion	Ratio	Lower	Upper
146	100		
111	40.1	18.4	55.4
148	64.6	32.4	97.2





#89
n-Butylbenzene
Concen: 18.969 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

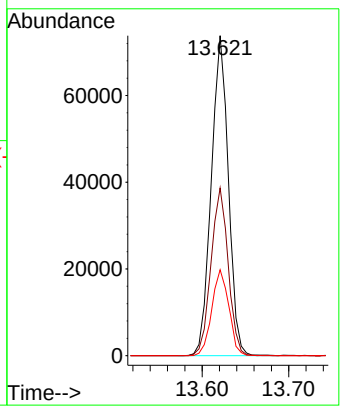
Tgt Ion: 91 Resp: 10115

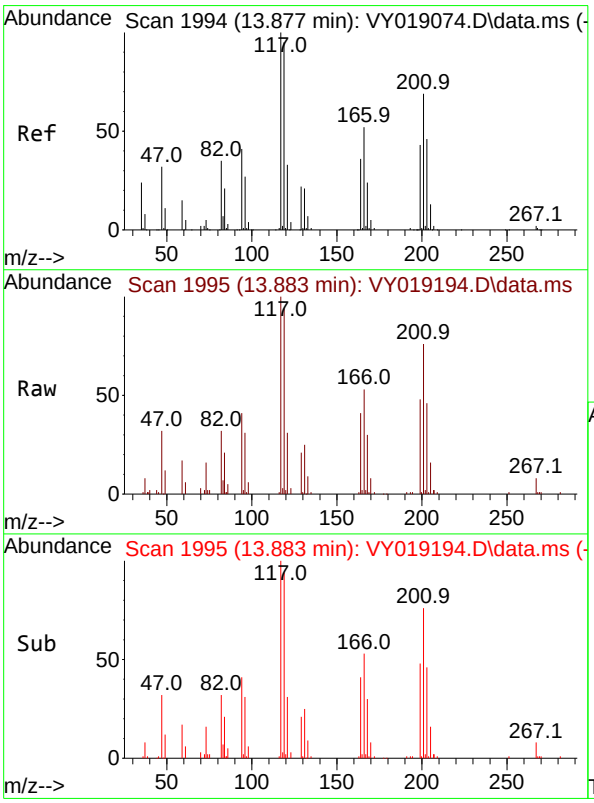
Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.6	79.7
134	26.7	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

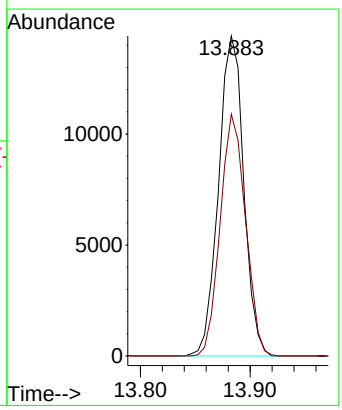


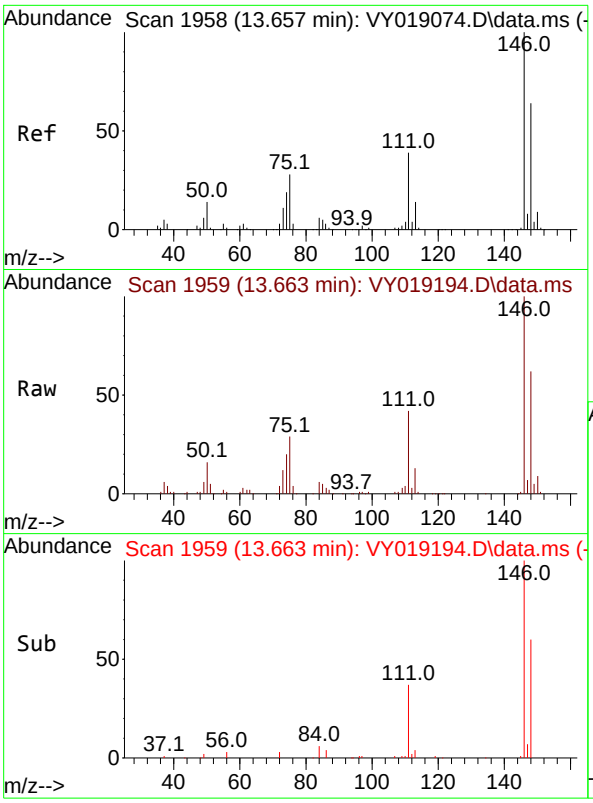


#90
Hexachloroethane
Concen: 19.929 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:117 Resp: 22976

Ion	Ratio	Lower	Upper
117	100		
201	76.0	37.4	112.2

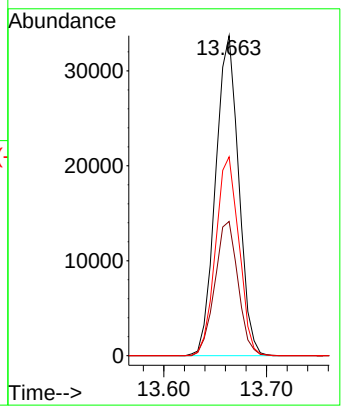




#91
1,2-Dichlorobenzene
Concen: 19.365 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:146 Resp: 5239

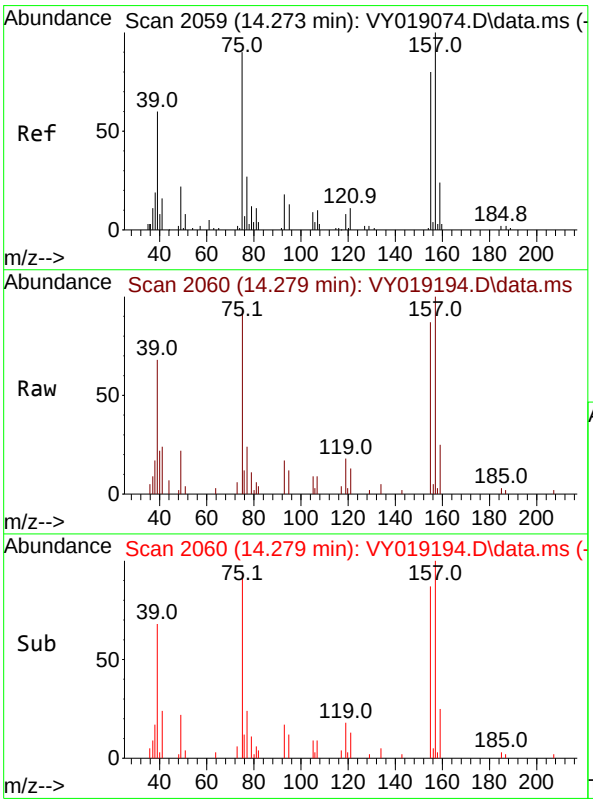
Ion	Ratio	Lower	Upper
146	100		
111	42.3	19.9	59.7
148	62.9	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

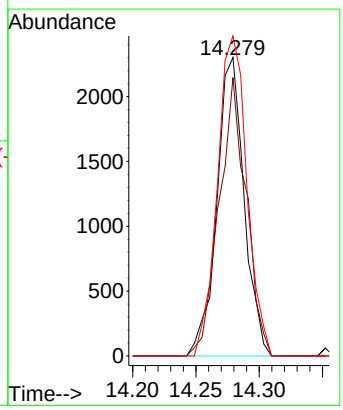
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

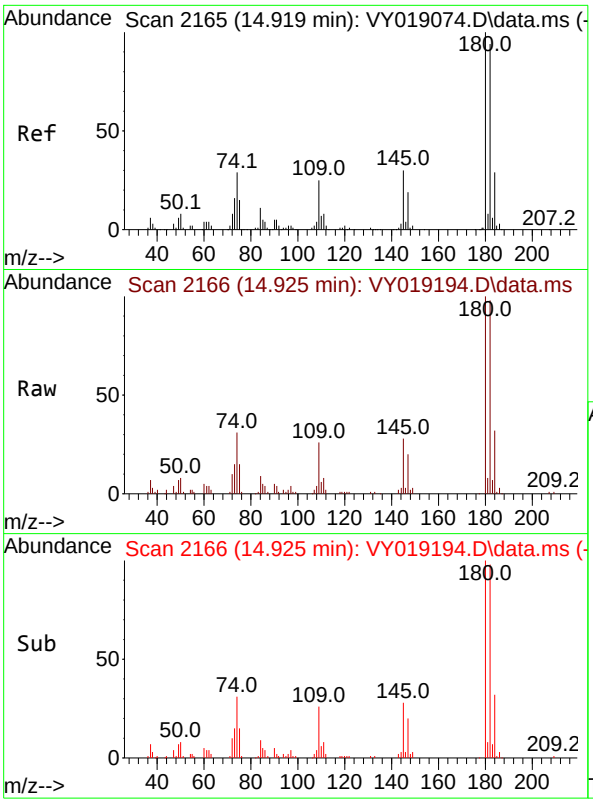


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.239 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion: 75 Resp: 3443

Ion	Ratio	Lower	Upper
75	100		
155	93.1	48.6	145.8
157	115.8	62.7	188.2

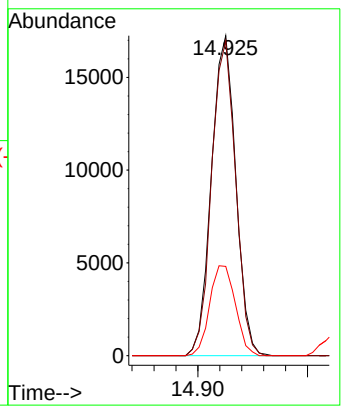




#93
1,2,4-Trichlorobenzene
Concen: 17.463 ug/l
RT: 14.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:180 Resp: 2664

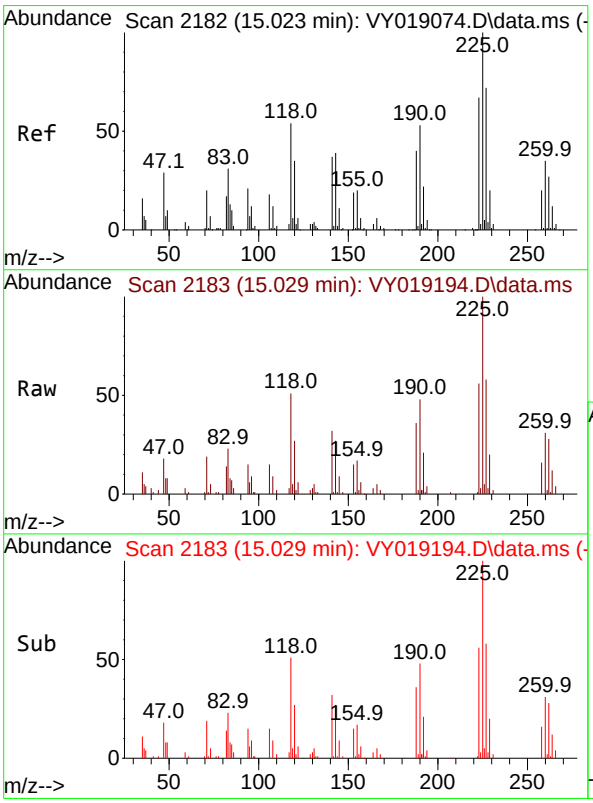
Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.9	143.8
145	29.6	14.2	42.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

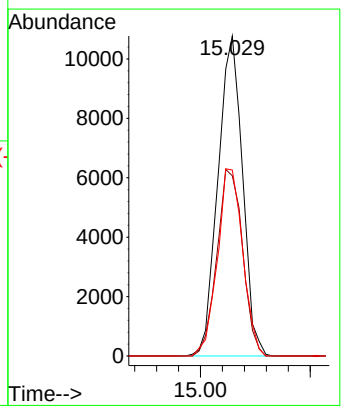
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024

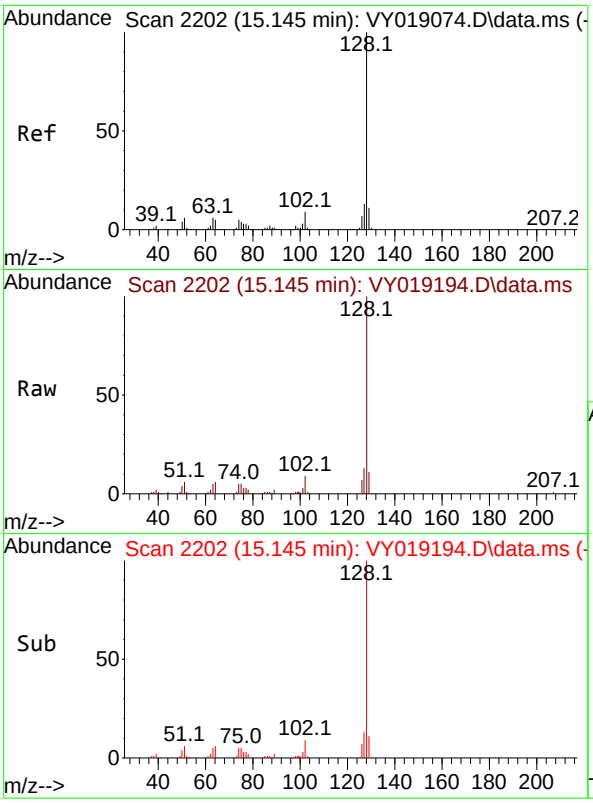


#94
Hexachlorobutadiene
Concen: 21.081 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:225 Resp: 16754

Ion	Ratio	Lower	Upper
225	100		
223	60.9	30.4	91.2
227	60.3	31.9	95.9

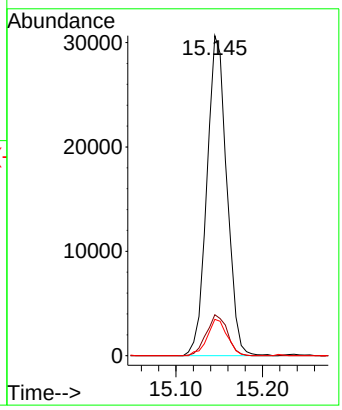




#95
Naphthalene
Concen: 17.970 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:128 Resp: 4893

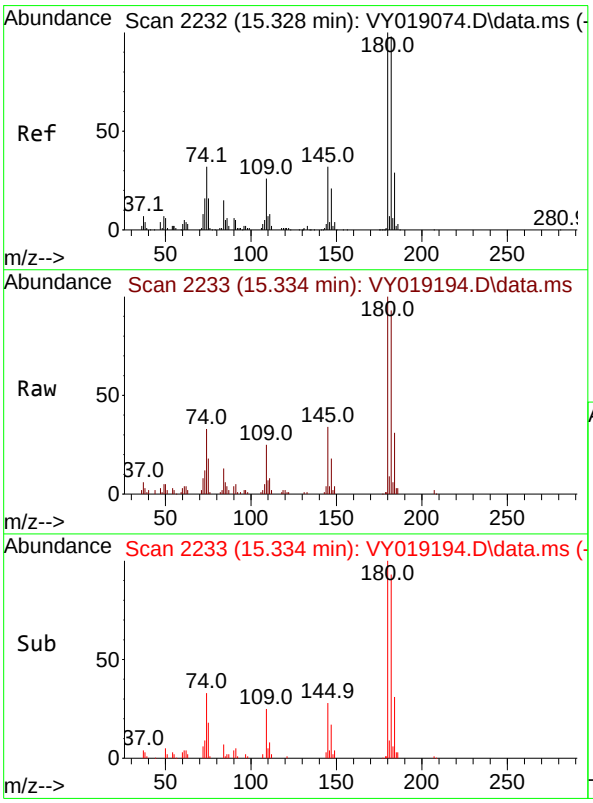
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.6	16.0
129	11.4	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0821SBSD02

Manual Integrations
APPROVED

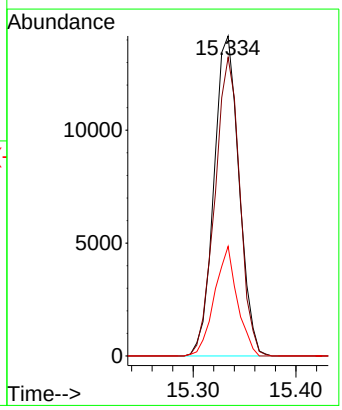
Reviewed By :Mahesh Dadoda 08/23/2024
Supervised By :Semsettin Yesilyurt 08/23/2024



#96
1,2,3-Trichlorobenzene
Concen: 18.662 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY019194.D
Acq: 22 Aug 2024 02:58

Tgt Ion:180 Resp: 24017

Ion	Ratio	Lower	Upper
180	100		
182	92.4	47.6	142.9
145	31.2	15.4	46.1



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

Manual Integration Report

Sequence:	VY081524	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY019071.D	1,2,3-Trichloropropane	Romaben	8/16/2024 2:48:07 PM	MMDadoda	8/16/2024 6:46:37 PM	Peak Integrated by Software
VSTDICC005	VY019071.D	Methacrylonitrile	Romaben	8/16/2024 2:48:07 PM	MMDadoda	8/16/2024 6:46:37 PM	Peak Integrated by Software
VSTDICC010	VY019072.D	1,2,3-Trichloropropane	Romaben	8/16/2024 2:48:12 PM	MMDadoda	8/16/2024 6:46:39 PM	Peak Integrated by Software
VSTDICC010	VY019072.D	Methacrylonitrile	Romaben	8/16/2024 2:48:12 PM	MMDadoda	8/16/2024 6:46:39 PM	Peak Integrated by Software
VSTDICC020	VY019073.D	1,2,3-Trichloropropane	Romaben	8/16/2024 2:48:17 PM	MMDadoda	8/16/2024 6:46:41 PM	Peak Integrated by Software
VSTDICC020	VY019073.D	Methacrylonitrile	Romaben	8/16/2024 2:48:17 PM	MMDadoda	8/16/2024 6:46:41 PM	Peak Integrated by Software
VSTDICCC050	VY019074.D	1,2,3-Trichloropropane	Romaben	8/16/2024 2:48:21 PM	MMDadoda	8/16/2024 6:46:43 PM	Peak Integrated by Software
VSTDICCC050	VY019074.D	Methacrylonitrile	Romaben	8/16/2024 2:48:21 PM	MMDadoda	8/16/2024 6:46:43 PM	Peak Integrated by Software
VSTDICC100	VY019075.D	1,2,3-Trichloropropane	Romaben	8/16/2024 2:48:28 PM	MMDadoda	8/16/2024 6:46:49 PM	Peak Integrated by Software
VSTDICC150	VY019076.D	1,2,3-Trichloropropane	Romaben	8/16/2024 2:48:32 PM	MMDadoda	8/16/2024 6:46:51 PM	Peak Integrated by Software
VSTDICC150	VY019076.D	Methacrylonitrile	Romaben	8/16/2024 2:48:32 PM	MMDadoda	8/16/2024 6:46:51 PM	Peak Integrated by Software
VSTDICV050	VY019078.D	1,2,3-Trichloropropane	Romaben	8/16/2024 2:48:39 PM	MMDadoda	8/16/2024 6:46:54 PM	Peak Integrated by Software
VSTDICV050	VY019078.D	Methacrylonitrile	Romaben	8/16/2024 2:48:39 PM	MMDadoda	8/16/2024 6:46:54 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY081524	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	vy082124	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY019166.D	1,2,3-Trichloropropane	MMDadoda	8/23/2024 11:11:21 AM	SAM	8/23/2024 4:44:19 PM	Peak Integrated by Software
VSTDCCC050	VY019189.D	1,2,3-Trichloropropane	MMDadoda	8/23/2024 11:11:28 AM	SAM	8/23/2024 4:44:29 PM	Peak Integrated by Software
VSTDCCC050	VY019191.D	1,2,3-Trichloropropane	MMDadoda	8/23/2024 11:11:32 AM	SAM	8/23/2024 4:44:31 PM	Peak Integrated by Software
VSTDCCC050	VY019191.D	Methacrylonitrile	MMDadoda	8/23/2024 11:11:32 AM	SAM	8/23/2024 4:44:31 PM	Peak Integrated by Software
VSTDCCC050	VY019191.D	Tert butyl alcohol	MMDadoda	8/23/2024 11:11:32 AM	SAM	8/23/2024 4:44:31 PM	Peak Integrated by Software
VY0821SBS02	VY019193.D	1,2,3-Trichloropropane	MMDadoda	8/23/2024 11:11:35 AM	SAM	8/23/2024 4:44:32 PM	Peak Integrated by Software
VY0821SBS02	VY019193.D	Methacrylonitrile	MMDadoda	8/23/2024 11:11:35 AM	SAM	8/23/2024 4:44:32 PM	Peak Integrated by Software
VY0821SBSD02	VY019194.D	1,2,3-Trichloropropane	MMDadoda	8/23/2024 11:11:36 AM	SAM	8/23/2024 4:44:34 PM	Peak Integrated by Software
VY0821SBSD02	VY019194.D	Methacrylonitrile	MMDadoda	8/23/2024 11:11:36 AM	SAM	8/23/2024 4:44:34 PM	Peak Integrated by Software
VSTDCCC050	VY019209.D	1,2,3-Trichloropropane	MMDadoda	8/23/2024 11:11:38 AM	SAM	8/23/2024 4:44:36 PM	Peak Integrated by Software
VSTDCCC050	VY019209.D	Methacrylonitrile	MMDadoda	8/23/2024 11:11:38 AM	SAM	8/23/2024 4:44:36 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vy082224	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY019211.D	1,2,3-Trichloropropane	MMDadoda	8/23/2024 4:55:13 PM	SAM	8/23/2024 4:56:09 PM	Peak Integrated by Software
VSTDCCC050	VY019211.D	Methacrylonitrile	MMDadoda	8/23/2024 4:55:13 PM	SAM	8/23/2024 4:56:09 PM	Peak Integrated by Software
VY0822SBS01	VY019213.D	1,2,3-Trichloropropane	MMDadoda	8/23/2024 4:55:13 PM	SAM	8/23/2024 4:56:10 PM	Peak Integrated by Software
VY0822SBS01	VY019213.D	Methacrylonitrile	MMDadoda	8/23/2024 4:55:13 PM	SAM	8/23/2024 4:56:10 PM	Peak Integrated by Software
VY0822SBS01	VY019213.D	Tert butyl alcohol	MMDadoda	8/23/2024 4:55:13 PM	SAM	8/23/2024 4:56:10 PM	Peak Integrated by Software
VSTDCCC050	VY019236.D	1,2,3-Trichloropropane	MMDadoda	8/23/2024 4:55:19 PM	SAM	8/23/2024 4:56:15 PM	Peak Integrated by Software
VSTDCCC050	VY019236.D	Methacrylonitrile	MMDadoda	8/23/2024 4:55:19 PM	SAM	8/23/2024 4:56:15 PM	Peak Integrated by Software
VSTDCCC050	VY019238.D	1,2,3-Trichloropropane	MMDadoda	8/23/2024 4:55:20 PM	SAM	8/23/2024 4:56:17 PM	Peak Integrated by Software
VSTDCCC050	VY019238.D	Methacrylonitrile	MMDadoda	8/23/2024 4:55:20 PM	SAM	8/23/2024 4:56:17 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081524

Review By	Mahesh Dadoda	Review On	8/16/2024 6:47:00 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/16/2024 6:48:06 PM		
SubDirectory	VY081524	HP Acquire Method		HP Processing Method	82y081524s.m

STD. NAME	STD REF.#
Tune/Reschk	VP129741
Initial Calibration Stds	VP129760,VP129762,VP129764,VP129765,VP129766,VP129767
CCC	
Internal Standard/PEM	VP128297
ICV/I.BLK	VP129768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019070.D	15 Aug 2024 16:51	SY/MD	Ok
2	VSTDICC005	VY019071.D	15 Aug 2024 17:24	SY/MD	Ok,M
3	VSTDICC010	VY019072.D	15 Aug 2024 18:13	SY/MD	Ok,M
4	VSTDICC020	VY019073.D	15 Aug 2024 18:37	SY/MD	Ok,M
5	VSTDICCC050	VY019074.D	15 Aug 2024 19:01	SY/MD	Ok,M
6	VSTDICC100	VY019075.D	15 Aug 2024 19:26	SY/MD	Ok,M
7	VSTDICC150	VY019076.D	15 Aug 2024 19:50	SY/MD	Ok,M
8	VIBLK	VY019077.D	15 Aug 2024 20:15	SY/MD	Ok
9	VSTDICV050	VY019078.D	15 Aug 2024 20:39	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY082124

Review By	Mahesh Dadoda	Review On	8/23/2024 11:13:59 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	8/23/2024 4:44:49 PM				
SubDirectory	VY082124	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081524s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP129852,VP129874
Initial Calibration Stds	
CCC	VP129853,VP129854,VP129875,VP129876
Internal Standard/PEM	VP126915
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019165.D	21 Aug 2024 12:15	SY/MD	Ok
2	VSTDCCC050	VY019166.D	21 Aug 2024 13:18	SY/MD	Ok,M
3	VY0821SBL01	VY019167.D	21 Aug 2024 14:12	SY/MD	Ok
4	VY0821SBS01	VY019168.D	21 Aug 2024 14:42	SY/MD	Ok,M
5	VY0821SBSD01	VY019169.D	21 Aug 2024 15:05	SY/MD	Ok,M
6	P3634-01	VY019170.D	21 Aug 2024 15:29	SY/MD	Not Ok
7	P3641-03RE	VY019171.D	21 Aug 2024 15:53	SY/MD	Confirms
8	P3641-08	VY019172.D	21 Aug 2024 16:17	SY/MD	ReRun
9	P3641-09	VY019173.D	21 Aug 2024 16:42	SY/MD	Ok
10	P3641-10	VY019174.D	21 Aug 2024 17:06	SY/MD	Ok
11	P3643-01RE	VY019175.D	21 Aug 2024 17:30	SY/MD	Not Ok
12	P3643-04RE	VY019176.D	21 Aug 2024 17:54	SY/MD	Confirms
13	P3643-05	VY019177.D	21 Aug 2024 18:18	SY/MD	Ok
14	P3643-06	VY019178.D	21 Aug 2024 18:43	SY/MD	Ok
15	P3643-07RE	VY019179.D	21 Aug 2024 19:07	SY/MD	Confirms
16	P3643-09RE	VY019180.D	21 Aug 2024 19:31	SY/MD	Confirms
17	P3643-11RE	VY019181.D	21 Aug 2024 19:55	SY/MD	Confirms
18	P3643-12	VY019182.D	21 Aug 2024 20:19	SY/MD	Not Ok
19	P3643-13	VY019183.D	21 Aug 2024 20:43	SY/MD	Ok
20	P3643-14RE	VY019184.D	21 Aug 2024 21:07	SY/MD	Confirms
21	P3643-08RE	VY019185.D	21 Aug 2024 21:31	SY/MD	Confirms

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY082124

Review By	Mahesh Dadoda	Review On	8/23/2024 11:13:59 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/23/2024 4:44:49 PM		
SubDirectory	VY082124	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081524s.m

STD. NAME	STD REF.#
Tune/Reschk	VP129852,VP129874
Initial Calibration Stds	
CCC	VP129853,VP129854,VP129875,VP129876
Internal Standard/PEM	VP126915
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3534-03RE	VY019186.D	21 Aug 2024 21:55	SY/MD	Confirms
23	P3643-02MS	VY019187.D	21 Aug 2024 22:19	SY/MD	Not Ok
24	P3643-03MSD	VY019188.D	21 Aug 2024 22:42	SY/MD	Not Ok
25	VSTDCCC050	VY019189.D	21 Aug 2024 23:05	SY/MD	Ok,M
26	BFB	VY019190.D	22 Aug 2024 00:38	SY/MD	Ok
27	VSTDCCC050	VY019191.D	22 Aug 2024 01:25	SY/MD	Ok,M
28	VY0821SBL02	VY019192.D	22 Aug 2024 02:11	SY/MD	Ok
29	VY0821SBS02	VY019193.D	22 Aug 2024 02:34	SY/MD	Ok,M
30	VY0821SBSD02	VY019194.D	22 Aug 2024 02:58	SY/MD	Ok,M
31	P3671-01	VY019195.D	22 Aug 2024 03:21	SY/MD	ReRun
32	P3671-02	VY019196.D	22 Aug 2024 03:45	SY/MD	Ok
33	P3671-03	VY019197.D	22 Aug 2024 04:09	SY/MD	ReRun
34	P3671-04	VY019198.D	22 Aug 2024 04:33	SY/MD	ReRun
35	P3671-05	VY019199.D	22 Aug 2024 04:57	SY/MD	ReRun
36	P3671-06	VY019200.D	22 Aug 2024 05:21	SY/MD	Ok
37	P3671-07	VY019201.D	22 Aug 2024 05:45	SY/MD	ReRun
38	P3671-08	VY019202.D	22 Aug 2024 06:09	SY/MD	Ok
39	P3671-09	VY019203.D	22 Aug 2024 06:33	SY/MD	ReRun
40	P3671-10	VY019204.D	22 Aug 2024 06:57	SY/MD	ReRun
41	P3671-11	VY019205.D	22 Aug 2024 07:21	SY/MD	Ok
42	P3671-12	VY019206.D	22 Aug 2024 07:45	SY/MD	Ok
43	P3671-13	VY019207.D	22 Aug 2024 08:09	SY/MD	ReRun
44	P3671-14	VY019208.D	22 Aug 2024 08:32	SY/MD	ReRun

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY082124

Review By	Mahesh Dadoda	Review On	8/23/2024 11:13:59 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	8/23/2024 4:44:49 PM				
SubDirectory	VY082124	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081524s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP129852,VP129874
Initial Calibration Stds	
CCC	VP129853,VP129854,VP129875,VP129876
Internal Standard/PEM	VP126915
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	VSTDCCC050	VY019209.D	22 Aug 2024 08:56	SY/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_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY082224

Review By	Mahesh Dadoda	Review On	8/23/2024 4:55:32 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/23/2024 4:56:24 PM		
SubDirectory	VY082224	HP Acquire Method		HP Processing Method	82y081524s.m

STD. NAME	STD REF.#
Tune/Reschk	VP129915,VP129916
Initial Calibration Stds	
CCC	VP129917,VP129918,VP129919,VP129920
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019210.D	22 Aug 2024 10:21	SY/MD	Ok
2	VSTDCCC050	VY019211.D	22 Aug 2024 11:22	SY/MD	Ok,M
3	VY0822SBL01	VY019212.D	22 Aug 2024 11:52	SY/MD	Ok
4	VY0822SBS01	VY019213.D	22 Aug 2024 12:15	SY/MD	Ok,M
5	VY0822SBSD01	VY019214.D	22 Aug 2024 12:39	SY/MD	Ok,M
6	P3685-01	VY019215.D	22 Aug 2024 13:07	SY/MD	Ok
7	P3685-03	VY019216.D	22 Aug 2024 13:31	SY/MD	ReRun
8	P3689-04	VY019217.D	22 Aug 2024 13:55	SY/MD	Ok
9	P3698-01	VY019218.D	22 Aug 2024 14:20	SY/MD	ReRun
10	P3704-02	VY019219.D	22 Aug 2024 14:44	SY/MD	Ok
11	P3640-03	VY019220.D	22 Aug 2024 15:08	SY/MD	Ok
12	P3641-08	VY019221.D	22 Aug 2024 15:32	SY/MD	Ok
13	P3671-01	VY019222.D	22 Aug 2024 15:56	SY/MD	Ok
14	P3671-03RE	VY019223.D	22 Aug 2024 16:20	SY/MD	Confirms
15	P3671-04RE	VY019224.D	22 Aug 2024 16:45	SY/MD	Confirms
16	P3671-05RE	VY019225.D	22 Aug 2024 17:09	SY/MD	Confirms
17	P3671-07	VY019226.D	22 Aug 2024 17:33	SY/MD	Ok
18	P3671-09RE	VY019227.D	22 Aug 2024 17:58	SY/MD	Confirms
19	P3671-10RE	VY019228.D	22 Aug 2024 18:22	SY/MD	Confirms
20	P3671-13RE	VY019229.D	22 Aug 2024 18:46	SY/MD	Confirms
21	P3671-14	VY019230.D	22 Aug 2024 19:10	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY082224

Review By	Mahesh Dadoda	Review On	8/23/2024 4:55:32 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/23/2024 4:56:24 PM		
SubDirectory	VY082224	HP Acquire Method		HP Processing Method	82y081524s.m

STD. NAME	STD REF.#
Tune/Reschk	VP129915,VP129916
Initial Calibration Stds	
CCC	VP129917,VP129918,VP129919,VP129920
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3694-01	VY019231.D	22 Aug 2024 19:35	SY/MD	Ok
23	P3670-02	VY019232.D	22 Aug 2024 19:59	SY/MD	Ok
24	P3703-01	VY019233.D	22 Aug 2024 20:23	SY/MD	Ok
25	P3643-02MS	VY019234.D	22 Aug 2024 20:47	SY/MD	Ok,M
26	P3643-03MSD	VY019235.D	22 Aug 2024 21:10	SY/MD	Ok,M
27	VSTDCCC050	VY019236.D	22 Aug 2024 21:33	SY/MD	Ok,M
28	BFB	VY019237.D	22 Aug 2024 22:43	SY/MD	Ok
29	VSTDCCC050	VY019238.D	22 Aug 2024 23:30	SY/MD	Ok,M
30	VY0822SBL02	VY019239.D	23 Aug 2024 00:17	SY/MD	Ok
31	VY0822SBS02	VY019240.D	23 Aug 2024 00:40	SY/MD	Ok,M
32	VY0822SBSD02	VY019241.D	23 Aug 2024 01:03	SY/MD	Ok,M
33	P3663-01	VY019242.D	23 Aug 2024 01:27	SY/MD	Ok

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081524

Review By	Mahesh Dadoda	Review On	8/16/2024 6:47:00 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/16/2024 6:48:06 PM		
SubDirectory	VY081524	HP Acquire Method		HP Processing Method	82y081524s.m

STD. NAME	STD REF.#
Tune/Reschk	VP129741
Initial Calibration Stds	VP129760,VP129762,VP129764,VP129765,VP129766,VP129767
CCC	
Internal Standard/PEM	VP128297
ICV/I.BLK	VP129768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019070.D	15 Aug 2024 16:51		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY019071.D	15 Aug 2024 17:24	Good for DOD	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY019072.D	15 Aug 2024 18:13	LR- 5, 11, 13, 20, 31	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY019073.D	15 Aug 2024 18:37	QR- 6	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY019074.D	15 Aug 2024 19:01		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY019075.D	15 Aug 2024 19:26		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY019076.D	15 Aug 2024 19:50		SY/MD	Ok,M
8	VIBLK	VIBLK	VY019077.D	15 Aug 2024 20:15		SY/MD	Ok
9	VSTDICV050	ICVVY081524	VY019078.D	15 Aug 2024 20:39		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY082124

Review By	Mahesh Dadoda	Review On	8/23/2024 11:13:59 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/23/2024 4:44:49 PM		
SubDirectory	VY082124	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081524s.m

STD. NAME	STD REF.#
Tune/Reschk	VP129852,VP129874
Initial Calibration Stds	
CCC	VP129853,VP129854,VP129875,VP129876
Internal Standard/PEM	VP126915
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019165.D	21 Aug 2024 12:15		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY019166.D	21 Aug 2024 13:18		SY/MD	Ok,M
3	VY0821SBL01	VY0821SBL01	VY019167.D	21 Aug 2024 14:12		SY/MD	Ok
4	VY0821SBS01	VY0821SBS01	VY019168.D	21 Aug 2024 14:42		SY/MD	Ok,M
5	VY0821SBSD01	VY0821SBSD01	VY019169.D	21 Aug 2024 15:05		SY/MD	Ok,M
6	P3634-01	TR-06-08152024	VY019170.D	21 Aug 2024 15:29	Already analyzed	SY/MD	Not Ok
7	P3641-03RE	S-908-K1-0-0.5-081524	VY019171.D	21 Aug 2024 15:53	vial-B Internal standard fail	SY/MD	Confirms
8	P3641-08	S-910-K1-0-0.5-081524	VY019172.D	21 Aug 2024 16:17	vial-A Internal standard fail	SY/MD	ReRun
9	P3641-09	S-910-K1-0.5-1.0-0815	VY019173.D	21 Aug 2024 16:42	vial-A	SY/MD	Ok
10	P3641-10	S-910-K1-0.5-1.0-0815	VY019174.D	21 Aug 2024 17:06	vial-A	SY/MD	Ok
11	P3643-01RE	932-K1-SD-0-0.5-0815	VY019175.D	21 Aug 2024 17:30	vial-B Internal standard fail;Not Required	SY/MD	Not Ok
12	P3643-04RE	932-K1-SD-0.5-1-0815	VY019176.D	21 Aug 2024 17:54	vial-B Internal standard fail	SY/MD	Confirms
13	P3643-05	917-J-SD-0-0.5-081524	VY019177.D	21 Aug 2024 18:18	vial-B	SY/MD	Ok
14	P3643-06	917-J-SD-0.5-1-081524	VY019178.D	21 Aug 2024 18:43	vial-B	SY/MD	Ok
15	P3643-07RE	918-J-SD-0-0.5-081524	VY019179.D	21 Aug 2024 19:07	vial-B Internal standard fail	SY/MD	Confirms
16	P3643-09RE	924-K1-SD-0-0.5-0815	VY019180.D	21 Aug 2024 19:31	vial-B Internal standard fail	SY/MD	Confirms
17	P3643-11RE	921-J-SD-0-0.5-081524	VY019181.D	21 Aug 2024 19:55	vial-B Internal standard fail	SY/MD	Confirms

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY082124

Review By	Mahesh Dadoda	Review On	8/23/2024 11:13:59 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/23/2024 4:44:49 PM		
SubDirectory	VY082124	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081524s.m

STD. NAME	STD REF.#
Tune/Reschk	VP129852,VP129874
Initial Calibration Stds	
CCC	VP129853,VP129854,VP129875,VP129876
Internal Standard/PEM	VP126915
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P3643-12	921-J-SD-0.5-1-081524	VY019182.D	21 Aug 2024 20:19	vial-B Not purge	SY/MD	Not Ok
19	P3643-13	921-J-SD-0-0.5-081524	VY019183.D	21 Aug 2024 20:43	vial-B	SY/MD	Ok
20	P3643-14RE	921-J-SD-0.5-1-081524	VY019184.D	21 Aug 2024 21:07	vial-B Internal standard fail	SY/MD	Confirms
21	P3643-08RE	918-J-SD-0.5-1-081524	VY019185.D	21 Aug 2024 21:31	vial-B Internal standard fail;Not match for com.#16	SY/MD	Confirms
22	P3534-03RE	HP-IPRE	VY019186.D	21 Aug 2024 21:55	vial-B Internal standard fail	SY/MD	Confirms
23	P3643-02MS	932-K1-SD-0-0.5-08152	VY019187.D	21 Aug 2024 22:19	vial-A Internal standard fail;Surrogate fail	SY/MD	Not Ok
24	P3643-03MSD	932-K1-SD-0-0.5-08152	VY019188.D	21 Aug 2024 22:42	vial-A Internal standard fail;Surrogate fail	SY/MD	Not Ok
25	VSTDCCC050	VSTDCCC050EC	VY019189.D	21 Aug 2024 23:05		SY/MD	Ok,M
26	BFB	BFB	VY019190.D	22 Aug 2024 00:38		SY/MD	Ok
27	VSTDCCC050	VSTDCCC050	VY019191.D	22 Aug 2024 01:25		SY/MD	Ok,M
28	VY0821SBL02	VY0821SBL02	VY019192.D	22 Aug 2024 02:11		SY/MD	Ok
29	VY0821SBS02	VY0821SBS02	VY019193.D	22 Aug 2024 02:34		SY/MD	Ok,M
30	VY0821SBSD02	VY0821SBSD02	VY019194.D	22 Aug 2024 02:58		SY/MD	Ok,M
31	P3671-01	S-904-J-SO-0-0.5-0819	VY019195.D	22 Aug 2024 03:21	vial-A Internal standard fail	SY/MD	ReRun
32	P3671-02	S-904-J-SO-0.5-1.0-08	VY019196.D	22 Aug 2024 03:45	vial-A	SY/MD	Ok
33	P3671-03	S-911-K1-SO-0-0.5-081	VY019197.D	22 Aug 2024 04:09	vial-A Internal standard fail	SY/MD	ReRun
34	P3671-04	S-911-K1-SO-0.5-1-081	VY019198.D	22 Aug 2024 04:33	vial-A Internal standard fail	SY/MD	ReRun
35	P3671-05	S-911-K1-SO-0-0.5-081	VY019199.D	22 Aug 2024 04:57	vial-A Internal standard fail	SY/MD	ReRun

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY082124

Review By	Mahesh Dadoda	Review On	8/23/2024 11:13:59 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/23/2024 4:44:49 PM		
SubDirectory	VY082124	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081524s.m

STD. NAME	STD REF.#
Tune/Reschk	VP129852,VP129874
Initial Calibration Stds	
CCC	VP129853,VP129854,VP129875,VP129876
Internal Standard/PEM	VP126915
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

36	P3671-06	S-905-KJ-SO-0-0.5-081	VY019200.D	22 Aug 2024 05:21	vial-A	SY/MD	Ok
37	P3671-07	S-905-KJ-SO-0-0.5-081	VY019201.D	22 Aug 2024 05:45	vial-A Internal standard fail	SY/MD	ReRun
38	P3671-08	S-905-J-SO-0.5-1.0-08	VY019202.D	22 Aug 2024 06:09	vial-A	SY/MD	Ok
39	P3671-09	S-928-K1-SO-0-0.5-081	VY019203.D	22 Aug 2024 06:33	vial-A Internal standard fail	SY/MD	ReRun
40	P3671-10	S-928-K1-SO-0.5-1-081	VY019204.D	22 Aug 2024 06:57	vial-A Internal standard fail;Surrogate fail	SY/MD	ReRun
41	P3671-11	S-903-J-SO-0-0.5-0819	VY019205.D	22 Aug 2024 07:21	vial-A	SY/MD	Ok
42	P3671-12	S-903-J-SO-0.5-1.0-08	VY019206.D	22 Aug 2024 07:45	vial-A	SY/MD	Ok
43	P3671-13	S-912-J-SO-0-0.5-0819	VY019207.D	22 Aug 2024 08:09	vial-A Internal standard fail	SY/MD	ReRun
44	P3671-14	S-912-J-SO-0.5-1-0819	VY019208.D	22 Aug 2024 08:32	vial-A Internal standard fail	SY/MD	ReRun
45	VSTDCCC050	VSTDCCC050EC	VY019209.D	22 Aug 2024 08:56		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY082224

Review By	Mahesh Dadoda	Review On	8/23/2024 4:55:32 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/23/2024 4:56:24 PM		
SubDirectory	VY082224	HP Acquire Method		HP Processing Method	82y081524s.m

STD. NAME	STD REF.#
Tune/Reschk	VP129915,VP129916
Initial Calibration Stds	
CCC	VP129917,VP129918,VP129919,VP129920
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019210.D	22 Aug 2024 10:21		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY019211.D	22 Aug 2024 11:22		SY/MD	Ok,M
3	VY0822SBL01	VY0822SBL01	VY019212.D	22 Aug 2024 11:52		SY/MD	Ok
4	VY0822SBS01	VY0822SBS01	VY019213.D	22 Aug 2024 12:15		SY/MD	Ok,M
5	VY0822SBSD01	VY0822SBSD01	VY019214.D	22 Aug 2024 12:39		SY/MD	Ok,M
6	P3685-01	Stock Pile-1	VY019215.D	22 Aug 2024 13:07	vial-A	SY/MD	Ok
7	P3685-03	Stock Pile-2	VY019216.D	22 Aug 2024 13:31	vial-A Internal standard fail	SY/MD	ReRun
8	P3689-04	WC-1 VOC	VY019217.D	22 Aug 2024 13:55	vial-A	SY/MD	Ok
9	P3698-01	HD-01-8-21-2024	VY019218.D	22 Aug 2024 14:20	vial-A Internal standard fail	SY/MD	ReRun
10	P3704-02	LNG-Soil Pile	VY019219.D	22 Aug 2024 14:44	vial-A	SY/MD	Ok
11	P3640-03	SP-1-GRAB	VY019220.D	22 Aug 2024 15:08	vial-A	SY/MD	Ok
12	P3641-08	S-910-K1-0-0.5-081524	VY019221.D	22 Aug 2024 15:32	vial-B	SY/MD	Ok
13	P3671-01	S-904-J-SO-0-0.5-0819	VY019222.D	22 Aug 2024 15:56	vial-B	SY/MD	Ok
14	P3671-03RE	S-911-K1-SO-0-0.5-081	VY019223.D	22 Aug 2024 16:20	vial-B Internal standard fail	SY/MD	Confirms
15	P3671-04RE	S-911-K1-SO-0.5-1-081	VY019224.D	22 Aug 2024 16:45	vial-B Internal standard fail	SY/MD	Confirms
16	P3671-05RE	S-911-K1-SO-0-0.5-081	VY019225.D	22 Aug 2024 17:09	vial-B Internal standard fail	SY/MD	Confirms
17	P3671-07	S-905-KJ-SO-0-0.5-081	VY019226.D	22 Aug 2024 17:33	vial-B	SY/MD	Ok
18	P3671-09RE	S-928-K1-SO-0-0.5-081	VY019227.D	22 Aug 2024 17:58	vial-B Internal standard fail	SY/MD	Confirms

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY082224

Review By	Mahesh Dadoda	Review On	8/23/2024 4:55:32 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/23/2024 4:56:24 PM		
SubDirectory	VY082224	HP Acquire Method		HP Processing Method	82y081524s.m

STD. NAME	STD REF.#
Tune/Reschk	VP129915,VP129916
Initial Calibration Stds	
CCC	VP129917,VP129918,VP129919,VP129920
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3671-10RE	S-928-K1-SO-0.5-1-081	VY019228.D	22 Aug 2024 18:22	vial-B Internal standard fail	SY/MD	Confirms
20	P3671-13RE	S-912-J-SO-0-0.5-0819	VY019229.D	22 Aug 2024 18:46	vial-B Internal standard fail	SY/MD	Confirms
21	P3671-14	S-912-J-SO-0.5-1-0819	VY019230.D	22 Aug 2024 19:10	vial-B	SY/MD	Ok
22	P3694-01	Kingsland-Driveway	VY019231.D	22 Aug 2024 19:35	vial-A	SY/MD	Ok
23	P3670-02	VOC	VY019232.D	22 Aug 2024 19:59	vial-A	SY/MD	Ok
24	P3703-01	OR-03-8-21-2024	VY019233.D	22 Aug 2024 20:23	vial-A	SY/MD	Ok
25	P3643-02MS	932-K1-SD-0-0.5-08152	VY019234.D	22 Aug 2024 20:47	vial-A Internal standard fail	SY/MD	Ok,M
26	P3643-03MSD	932-K1-SD-0-0.5-08152	VY019235.D	22 Aug 2024 21:10	vial-A Internal standard fail	SY/MD	Ok,M
27	VSTDCCC050	VSTDCCC050EC	VY019236.D	22 Aug 2024 21:33		SY/MD	Ok,M
28	BFB	BFB	VY019237.D	22 Aug 2024 22:43		SY/MD	Ok
29	VSTDCCC050	VSTDCCC050	VY019238.D	22 Aug 2024 23:30		SY/MD	Ok,M
30	VY0822SBL02	VY0822SBL02	VY019239.D	23 Aug 2024 00:17		SY/MD	Ok
31	VY0822SBS02	VY0822SBS02	VY019240.D	23 Aug 2024 00:40	BS Low For Com.#52.	SY/MD	Ok,M
32	VY0822SBSD02	VY0822SBSD02	VY019241.D	23 Aug 2024 01:03	BSD Low For com.#69,73	SY/MD	Ok,M
33	P3663-01	920-J-SD-0-0.5-081624	VY019242.D	23 Aug 2024 01:27	vial-A Internal standard fail	SY/MD	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC: LB132092

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P3669-01	20430	1	1.17	8.60	9.77	8.15	81.2	
P3669-02	20430	2	1.17	8.60	9.77	8.15	81.2	
P3670-01	WASTE	3	1.15	8.48	9.63	8.51	86.8	
P3670-02	VOC	4	1.18	8.40	9.58	8.49	87.0	
P3670-03	1	5	1.18	8.48	9.66	8.48	86.1	
P3670-04	2	6	1.14	8.76	9.9	8.66	85.8	
P3670-05	3	7	1.14	8.40	9.54	8.35	85.8	
P3670-06	4	8	1.11	8.76	9.87	8.73	87.0	
P3670-07	5	9	1.12	8.78	9.9	8.69	86.2	
P3671-01	S-904-J-SO-0-0.5-081924	10	1.11	8.42	9.53	7.11	71.3	
P3671-02	S-904-J-SO-0-1-081924	11	1.18	8.53	9.71	7.98	79.7	
P3671-03	S-911-K1-SO-0-0.5-081924	12	1.18	8.52	9.7	5.18	46.9	
P3671-04	S-911-K1-SO-0.5-1-081924	13	1.14	8.54	9.68	5.92	56.0	
P3671-05	S-911-K1-SO-0-0.5-081924-FD	14	1.18	8.51	9.69	4.16	35.0	
P3671-06	S-905-KJ-SO-0-0.5-081924	15	1.15	8.50	9.65	7.8	78.2	
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	16	1.12	8.47	9.59	7.61	76.6	
P3671-08	S-905-J-SO-0.5-1.0-081924	17	1.13	8.74	9.87	8.3	82.0	
P3671-09	S-928-K1-SO-0-0.5-081924	18	1.15	8.82	9.97	5.38	48.0	
P3671-10	S-928-K1-SO-0.5-1-081924	19	1.15	8.80	9.95	6.18	57.2	
P3671-11	S-903-J-SO--0-0.5-081924	20	1.19	8.53	9.72	8.31	83.5	
P3671-12	S-903-J-SO--0-1.0-081924	21	1.17	8.60	9.77	8.55	85.8	
P3671-13	S-912-J-SO-0-0.5-081924	22	1.13	8.70	9.83	3.79	30.6	
P3671-14	S-912-J-SO-0.5-1-081924	23	1.15	8.81	9.96	5.69	51.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC: LB132092

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P3674-01	PCB08724RB01	24	1.00	1.00	2.00	2.00	100.0	caluk
P3674-02	PCB08724RB02	25	1.00	1.00	2.00	2.00	100.0	caluk
P3674-03	PCB08724RB03	26	1.00	1.00	2.00	2.00	100.0	caluk
P3674-04	PCB08724RB04	27	1.00	1.00	2.00	2.00	100.0	caluk
P3674-05	PCB08724RB05	28	1.00	1.00	2.00	2.00	100.0	caluk
P3674-06	PCB08724RB06	29	1.00	1.00	2.00	2.00	100.0	caluk
P3674-07	PCB08724RB07	30	1.00	1.00	2.00	2.00	100.0	caluk
P3674-08	PCB08724RB08	31	1.00	1.00	2.00	2.00	100.0	caluk
P3676-01	PCB08724RB09	32	1.00	1.00	2.00	2.00	100.0	caluk
P3676-02	PCB08724RB10	33	1.00	1.00	2.00	2.00	100.0	caluk
P3676-03	PCB08724RB11	34	1.00	1.00	2.00	2.00	100.0	caluk
P3676-04	PCB08724RB12	35	1.00	1.00	2.00	2.00	100.0	caluk
P3676-05	PCB08724RB13	36	1.00	1.00	2.00	2.00	100.0	caluk
P3676-06	PCB08724RB14	37	1.00	1.00	2.00	2.00	100.0	caluk
P3676-07	PCB08724RB15	38	1.00	1.00	2.00	2.00	100.0	caluk
P3676-08	PCB08724RB16	39	1.00	1.00	2.00	2.00	100.0	caluk
P3676-09	PCB08724RB17	40	1.00	1.00	2.00	2.00	100.0	caluk
P3676-10	PCB08724RB18	41	1.00	1.00	2.00	2.00	100.0	caluk
P3676-11	PCB08724RB19	42	1.00	1.00	2.00	2.00	100.0	caluk
P3676-12	PCB08724RB20	43	1.00	1.00	2.00	2.00	100.0	caluk
P3676-13	PCB08724RB21	44	1.00	1.00	2.00	2.00	100.0	caluk
P3676-14	PCB08724RB22	45	1.00	1.00	2.00	2.00	100.0	caluk
P3676-15	PCB08724RB23	46	1.00	1.00	2.00	2.00	100.0	caluk
P3676-16	PCB08724RB24	47	1.00	1.00	2.00	2.00	100.0	caluk
P3676-17	PCB08724RB25	48	1.00	1.00	2.00	2.00	100.0	caluk
P3676-18	PCB08724RB26	49	1.00	1.00	2.00	2.00	100.0	caluk
P3676-19	PCB08724RB27	50	1.00	1.00	2.00	2.00	100.0	caluk
P3676-20	PCB08724RB28	51	1.00	1.00	2.00	2.00	100.0	caluk

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC: LB132092

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P3676-21	PCB08724RB29	52	1.00	1.00	2.00	2.00	100.0	caluk
P3676-22	PCB08724RB30	53	1.00	1.00	2.00	2.00	100.0	caluk
P3676-23	PCB08724RB31	54	1.00	1.00	2.00	2.00	100.0	caluk
P3676-24	PCB08724RB32	55	1.00	1.00	2.00	2.00	100.0	caluk
P3676-25	PCB08724RB33	56	1.00	1.00	2.00	2.00	100.0	caluk
P3676-26	PCB08724RB34	57	1.00	1.00	2.00	2.00	100.0	caluk
P3676-27	PCB08724RB35	58	1.00	1.00	2.00	2.00	100.0	caluk
P3676-28	PCB08724RB36	59	1.00	1.00	2.00	2.00	100.0	caluk
P3676-29	PCB08724RB37	60	1.00	1.00	2.00	2.00	100.0	caluk
P3676-30	PCB08724RB38	61	1.00	1.00	2.00	2.00	100.0	caluk
P3676-31	PCB08724RB39	62	1.00	1.00	2.00	2.00	100.0	caluk
P3676-32	PCB08724RB40	63	1.00	1.00	2.00	2.00	100.0	caluk
P3677-01	MX120	64	1.00	1.00	2.00	2.00	100.0	P.T. SAMPLE
P3677-02	MX121	65	1.00	1.00	2.00	2.00	100.0	P.T. SAMPLE
P3678-01	RE137-BagFilter20240819	71	1.00	1.00	2.00	2.00	100.0	Fabric
P3681-01	57	66	1.00	1.00	2.00	2.00	100.0	oil sample
P3681-02	0726-D	67	1.00	1.00	2.00	2.00	100.0	oil sample
P3681-03	581	68	1.14	8.66	9.8	8.88	89.4	
P3682-01	50407-A	69	1.00	1.00	2.00	2.00	100.0	wipe sample
P3682-02	50407-B	70	1.00	1.00	2.00	2.00	100.0	wipe sample
P3683-01	KZA404B-END-1-1	72	1.00	1.00	2.00	2.00	100.0	pilc
P3683-02	KZA404B-END-1-2	73	1.00	1.00	2.00	2.00	100.0	pilc
P3683-03	BC274653-END-1-1	74	1.00	1.00	2.00	2.00	100.0	pilc
P3683-04	BC274653-END-1-2	75	1.00	1.00	2.00	2.00	100.0	pilc
P3683-05	BC274653-END-2-1	76	1.00	1.00	2.00	2.00	100.0	pilc
P3683-06	BC274653-END-2-2	77	1.00	1.00	2.00	2.00	100.0	pilc
P3683-07	HED930S-END-1-1	78	1.00	1.00	2.00	2.00	100.0	pilc
P3683-08	HED930S-END-1-2	79	1.00	1.00	2.00	2.00	100.0	pilc

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC: LB132092

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P3684-03	D3646	86	1.00	1.00	2.00	2.00	100.0	DEBRIS
P3684-04	D3638	87	1.18	8.42	9.6	6.18	59.4	
P3684-06	D3564	88	1.00	1.00	2.00	2.00	100.0	DEBRIS
P3685-01	Stock Pile-1	80	1.15	8.43	9.58	8.99	93.0	
P3685-02	Stock Pile-1	81	1.15	8.43	9.58	8.99	93.0	
P3685-03	Stock Pile-2	82	1.18	8.72	9.9	9.34	93.6	
P3685-04	Stock Pile-2	83	1.18	8.72	9.9	9.34	93.6	
P3685-06	Stock Pile-1	84	1.15	8.43	9.58	8.99	93.0	
P3685-07	Stock Pile-2	85	1.18	8.72	9.9	9.34	93.6	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

UB 132092

WorkList Name : %1-082024 **WorkList ID :** 182800 **Department :** Wet-Chemistry **Date :** 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3669-01	20430	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/19/2024	Chemtech -SO
P3669-02	20430	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/19/2024	Chemtech -SO
P3670-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3671-01	S-904-J-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3671-02	S-904-J-SO-0-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-03	S-911-K1-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-04	S-911-K1-SO-0.5-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-05	S-911-K1-SO-0-0.5-081924-FD	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-06	S-905-KJ-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-08	S-905-J-SO-0.5-1.0-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-09	S-928-K1-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-10	S-928-K1-SO-0.5-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-11	S-903-J-SO--0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-12	S-903-J-SO--0-1.0-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO

Date/Time 08/20/24 16:10

Raw Sample Received by: JD GCPC

Raw Sample Relinquished by: CP SM

Date/Time 08/20/24 17:30

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JD GCPC

WORKLIST(Hardcopy Internal Chain)

VB B2092

WorkList Name : %1-082024 **WorkList ID :** 182800 **Department :** Wet-Chemistry **Date :** 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3671-13	S-912-J-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-14	S-912-J-SO-0.5-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3674-01	PCB08724RB01	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-02	PCB08724RB02	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-03	PCB08724RB03	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-04	PCB08724RB04	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-05	PCB08724RB05	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-06	PCB08724RB06	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-07	PCB08724RB07	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-08	PCB08724RB08	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-01	PCB08724RB09	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-02	PCB08724RB10	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-03	PCB08724RB11	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-04	PCB08724RB12	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-05	PCB08724RB13	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-06	PCB08724RB14	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-07	PCB08724RB15	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-08	PCB08724RB16	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-09	PCB08724RB17	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-10	PCB08724RB18	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-11	PCB08724RB19	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO

Date/Time 08/20/24 16:10

Raw Sample Received by: JD Cell

Raw Sample Relinquished by: CP SM

Date/Time 08/20/24 17:30

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JD Cell

WORKLIST(Hardcopy Internal Chain)

WB 132092

WorkList Name : %1-082024 **WorkList ID :** 182800 **Department :** Wet-Chemistry **Date :** 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3676-12	PCB08724RB20	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-13	PCB08724RB21	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-14	PCB08724RB22	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-15	PCB08724RB23	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-16	PCB08724RB24	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-17	PCB08724RB25	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-18	PCB08724RB26	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-19	PCB08724RB27	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-20	PCB08724RB28	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-21	PCB08724RB29	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-22	PCB08724RB30	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-23	PCB08724RB31	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-24	PCB08724RB32	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-25	PCB08724RB33	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-26	PCB08724RB34	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-27	PCB08724RB35	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-28	PCB08724RB36	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-29	PCB08724RB37	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-30	PCB08724RB38	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-31	PCB08724RB39	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-32	PCB08724RB40	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO

Date/Time 08/20/24 16:10

Raw Sample Received by: BB (WC)

Raw Sample Relinquished by: QP SM

Date/Time 08/20/24 17:30

Raw Sample Received by: QP SM

Raw Sample Relinquished by: BB (WC)

WORKLIST(Hardcopy Internal Chain)

VB 132092

WorkList Name : %1-082024 **WorkList ID :** 182800 **Department :** Wet-Chemistry **Date :** 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3677-01	MX120	Solid	Percent Solids	Cool 4 deg C	USEP01	QA Of	08/19/2024	Chemtech -SO
P3677-02	MX121	Solid	Percent Solids	Cool 4 deg C	USEP01	QA Of	08/19/2024	Chemtech -SO
P3678-01	RE137-BagFilter20240819	Solid	Percent Solids	Cool 4 deg C	TETR06	G11	08/19/2024	Chemtech -SO
P3681-01	57	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3681-02	0726-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3681-03	581	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3682-01	50407-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3682-02	50407-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-01	KZA404B-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-02	KZA404B-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-03	BC274653-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-04	BC274653-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-05	BC274653-END-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-06	BC274653-END-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-07	HED930S-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-08	HED930S-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3684-03	D3646	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3684-04	D3638	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3684-06	D3564	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-01	Stock Pile-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-02	Stock Pile-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO

Date/Time 8/20/24 16:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 08/20/24 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

VB132092

WorkList Name : %1-082024 **WorkList ID :** 182800 **Department :** Wet-Chemistry **Date :** 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3685-03	Stock Pile-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-04	Stock Pile-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-06	Stock Pile-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-07	Stock Pile-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO

Date/Time 08/20/24 16:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 08/20/24 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

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

Prep Standard - Chemical Standard Summary

Order ID : P3671

Test : VOCMS Group5

Prepbatch ID :

Sequence ID/Qc Batch ID: vy082124,vy082224,

Standard ID :
VP126915,VP128290,VP128297,VP128762,VP128763,VP128767,VP129228,VP129229,VP129517,VP129518,VP129852,VP129853,VP129854,VP129858,VP129859,VP129874,VP129875,VP129876,VP129915,VP129916,VP129917,VP129918,VP129919,VP129920,

Chemical ID :
V12794,V12798,V13390,V13444,V13463,V13705,V13800,V13801,V13952,V13953,V14016,V14017,V14103,V14104,V14140,V14141,V14143,V14147,V14148,V14169,V14170,V14202,V14207,V14219,V14288,V14411,V14412,V14413,V14414,V14467,V14468,V14469,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
249	8260 Surrogate, 100PPM	VP126915	04/02/2024	09/19/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/10/2024

FROM 0.20000ml of V13705 + 49.80000ml 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
1917	8260 Internal standard 50 ppm	VP128297	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/12/2024

FROM 0.02000ml of V14288 + 9.98000ml of V14148 = Final Quantity: 10.000 ml

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

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
1811	8260 Working Std(2-CVE)-500ppm	VP128763	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 3.75000ml of V14147 + 6.25000ml of VP128762 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
252	8260 Working STD (BCM)-First source, 100PPM	VP128767	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.50000ml of V13463 + 9.50000ml 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
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
56	8260 Working STD (Acrolein) -first source, 500PPM	VP129229	07/25/2024	08/24/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024

FROM 5.62500ml of V14143 + 9.37500ml of VP129228 = 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
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
244	8260 Calibration Working STD Mix-First source, 100PPM	VP129518	08/05/2024	09/14/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/08/2024

FROM 7.50000ml of V14143 + 12.50000ml 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
732	BFB TUNE CHECK - SOIL	VP129852	08/21/2024	08/22/2024	Romaben Patel	None	None	Mahesh Dadoda 08/24/2024

FROM 4.99800ml of W3112 + 0.00200ml of VP128290 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP129853	08/21/2024	08/22/2024	Romaben Patel	None	None	Mahesh Dadoda 08/24/2024

FROM 4.98000ml of W3112 + 0.00250ml of VP126915 + 0.00250ml of VP128763 + 0.00250ml of VP128767 + 0.00250ml of VP129229 + 0.00250ml of VP129518 + 0.00500ml of VP128297 = 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
773	50 PPB CCC, 8260-SOIL	VP129854	08/21/2024	08/22/2024	Romaben Patel	None	None	Mahesh Dadoda 08/24/2024

FROM 4.98000ml of W3112 + 0.00250ml of VP126915 + 0.00250ml of VP128763 + 0.00250ml of VP128767 + 0.00250ml of VP129229 + 0.00250ml of VP129518 + 0.00500ml of VP128297 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP129858	08/21/2024	09/15/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/24/2024

FROM 1.00000ml of V14469 + 1.50000ml of V14467 + 1.50000ml of V14468 + 21.00000ml of V14140 = 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
56	8260 Working STD (Acrolein) -first source, 500PPM	VP129859	08/21/2024	09/15/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/24/2024

FROM 7.50000ml of V14140 + 12.50000ml of VP129858 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP129874	08/21/2024	08/22/2024	Romaben Patel	None	None	Mahesh Dadoda 08/24/2024

FROM 4.99800ml of W3112 + 0.00200ml of VP128290 = 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
773	50 PPB CCC, 8260-SOIL	VP129875	08/21/2024	08/22/2024	Romaben Patel	None	None	Mahesh Dadoda 08/24/2024

FROM 4.98000ml of W3112 + 0.00250ml of VP126915 + 0.00250ml of VP128763 + 0.00250ml of VP128767 + 0.00250ml of VP129518 + 0.00250ml of VP129859 + 0.00500ml of VP128297 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP129876	08/21/2024	08/22/2024	Romaben Patel	None	None	Mahesh Dadoda 08/24/2024

FROM 4.98000ml of W3112 + 0.00250ml of VP126915 + 0.00250ml of VP128763 + 0.00250ml of VP128767 + 0.00250ml of VP129518 + 0.00250ml of VP129859 + 0.00500ml of VP128297 = 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
732	BFB TUNE CHECK - SOIL	VP129915	08/22/2024	08/23/2024	Romaben Patel	None	None	Mahesh Dadoda 08/24/2024

FROM 4.99800ml of W3112 + 0.00200ml of VP128290 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP129916	08/22/2024	08/23/2024	Romaben Patel	None	None	Mahesh Dadoda 08/24/2024

FROM 4.99800ml of W3112 + 0.00200ml of VP128290 = 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
773	50 PPB CCC, 8260-SOIL	VP129917	08/22/2024	08/23/2024	Romaben Patel	None	None	Mahesh Dadoda 08/24/2024

FROM 4.98000ml of W3112 + 0.00250ml of VP126915 + 0.00250ml of VP128763 + 0.00250ml of VP128767 + 0.00250ml of VP129518 + 0.00250ml of VP129859 + 0.00500ml of VP128297 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP129918	08/22/2024	08/23/2024	Romaben Patel	None	None	Mahesh Dadoda 08/24/2024

FROM 4.98000ml of W3112 + 0.00250ml of VP126915 + 0.00250ml of VP128763 + 0.00250ml of VP128767 + 0.00250ml of VP129518 + 0.00250ml of VP129859 + 0.00500ml of VP128297 = 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
773	50 PPB CCC, 8260-SOIL	VP129919	08/22/2024	08/23/2024	Romaben Patel	None	None	Mahesh Dadoda 08/24/2024

FROM 4.98000ml of W3112 + 0.00250ml of VP126915 + 0.00250ml of VP128763 + 0.00250ml of VP128767 + 0.00250ml of VP129518 + 0.00250ml of VP129859 + 0.00500ml of VP128297 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP129920	08/22/2024	08/23/2024	Romaben Patel	None	None	Mahesh Dadoda 08/24/2024

FROM 4.98000ml of W3112 + 0.00250ml of VP126915 + 0.00250ml of VP128763 + 0.00250ml of VP128767 + 0.00250ml of VP129518 + 0.00250ml of VP129859 + 0.00500ml of VP128297 = Final Quantity: 5.000 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 #
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	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13463

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	10/02/2024	04/02/2024 / SAM	04/12/2023 / SAM	V13705

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, 2000uq/ml, PTM, 1ml	A0194279	01/30/2025	07/30/2024 / SAM	05/31/2023 / SAM	V13800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	12/28/2024	06/28/2024 / SAM	05/31/2023 / SAM	V13801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13953

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	12/14/2024	06/14/2024 / SAM	11/22/2023 / SAM	V14016

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	12/14/2024	06/14/2024 / SAM	11/22/2023 / SAM	V14017

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	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0205179	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0205179	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	02/16/2025	08/16/2024 / SAM	02/06/2024 / SAM	V14140

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	09/19/2024	03/19/2024 / SAM	02/06/2024 / SAM	V14141

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	12/11/2024	06/11/2024 / pedro	02/06/2024 / SAM	V14147

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	11/23/2024	05/23/2024 / pedro	02/06/2024 / SAM	V14148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14169

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14170

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

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	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	06/10/2025	06/10/2024 / SAM	04/15/2024 / SAM	V14288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14411

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14412

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)	081524	09/15/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14467

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)	081524	09/15/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14468

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081524	09/15/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): 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 5E-05 Balance Uncertainty 0.021 Flask Uncertainty

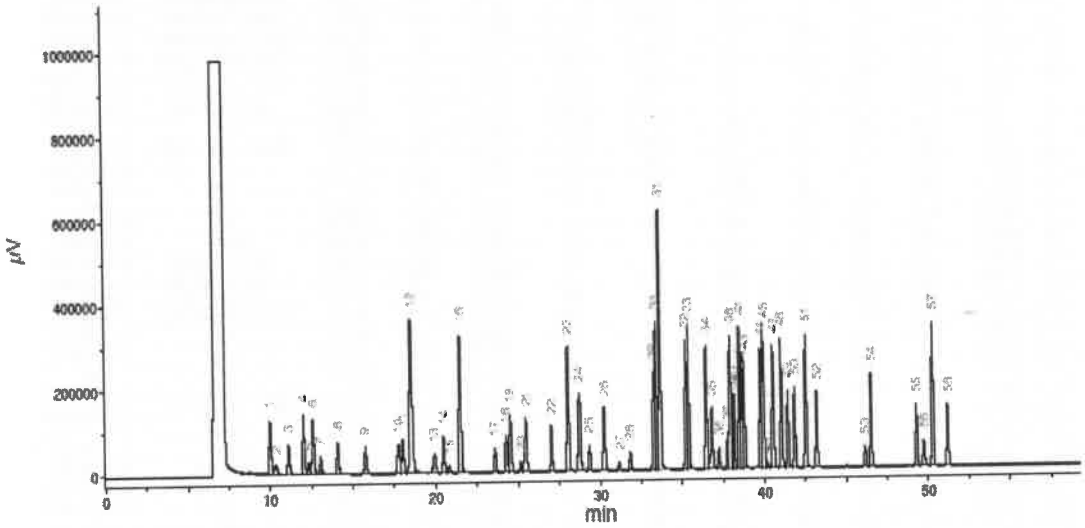
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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 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	40003.6	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

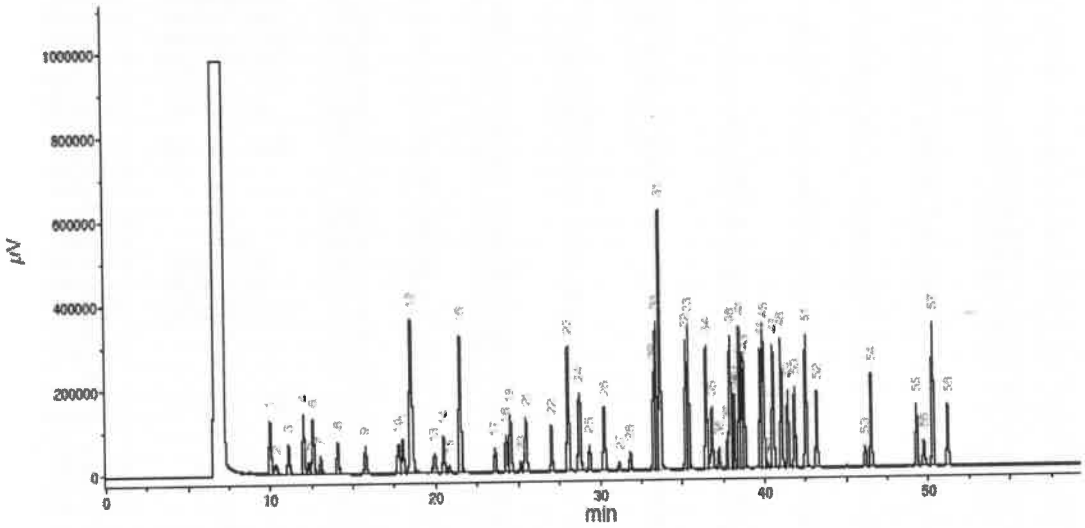
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	95319
Lot Number:	032922
Description:	Revised Additions Mix 11 components
Expiration Date:	032925
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	Varied
NIST Test ID#:	6UTB

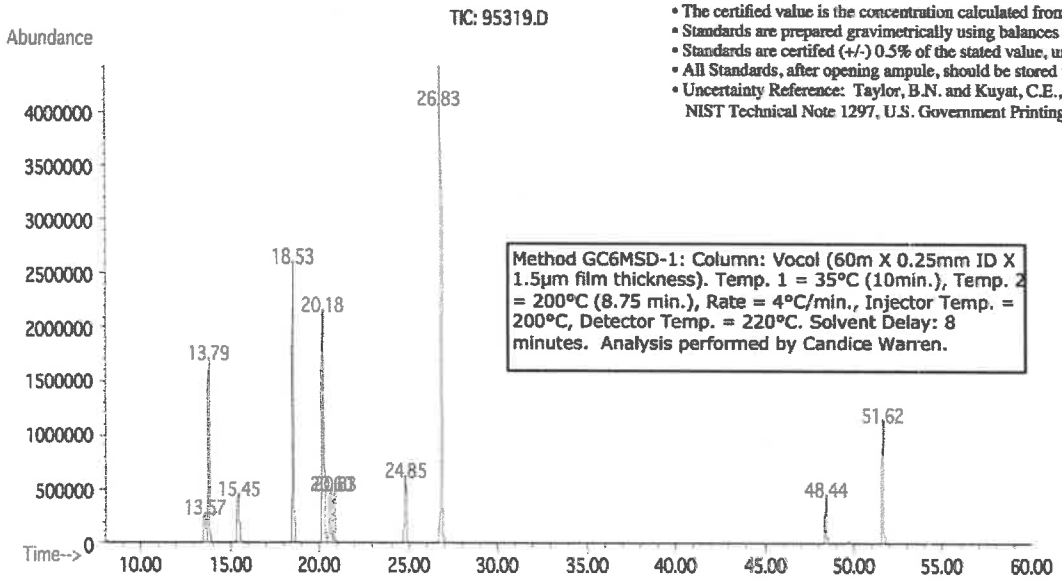
Solvent(s): Methanol **Lot#** EC592-US

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

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

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

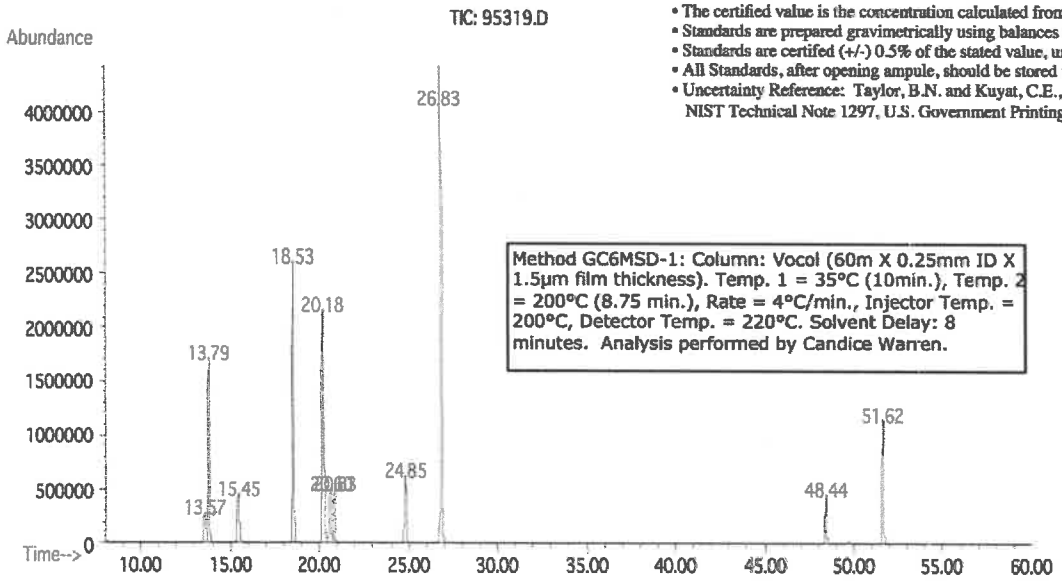
Solvent(s): Methanol **Lot#** EC592-US

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

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 102422Q

5 Sony

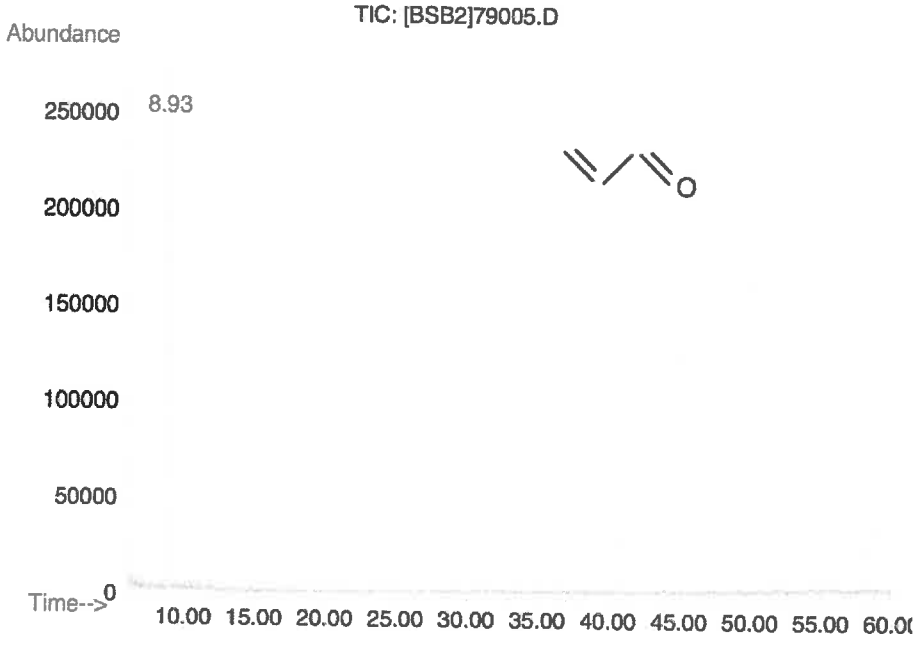
Gabriel Helland 072423
Formulated By: Gabriel Helland DATE

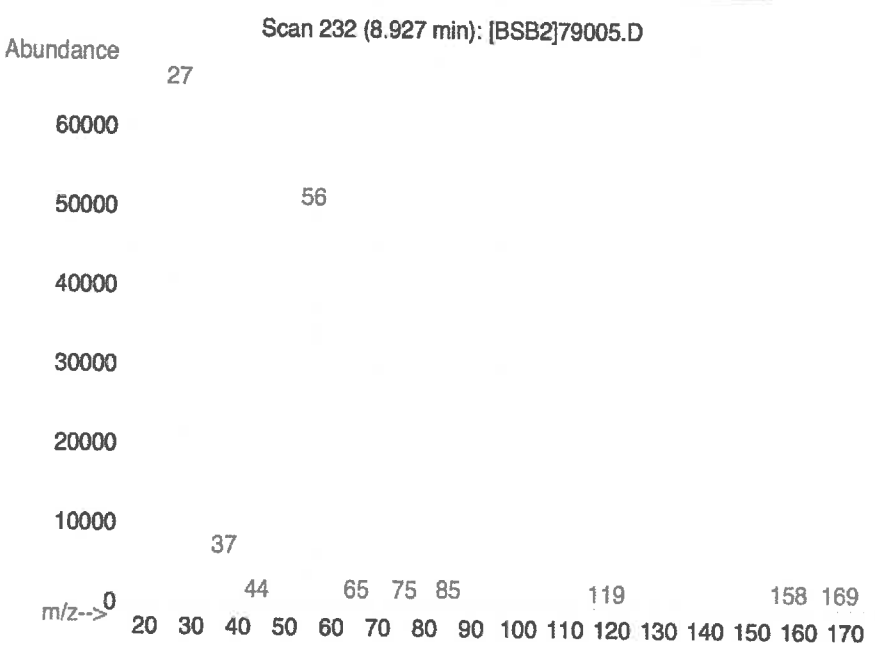
Pedro Rentas 072423
Reviewed By: Pedro L. Rentas DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	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	

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — NA
Conditions to avoid — NA
Materials to avoid — NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat — NA
LC50 Inhalation - Rat — NA
LD50 Dermal - Guinea pig — NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 — NA
EC50 — NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 102422Q

5 Sony

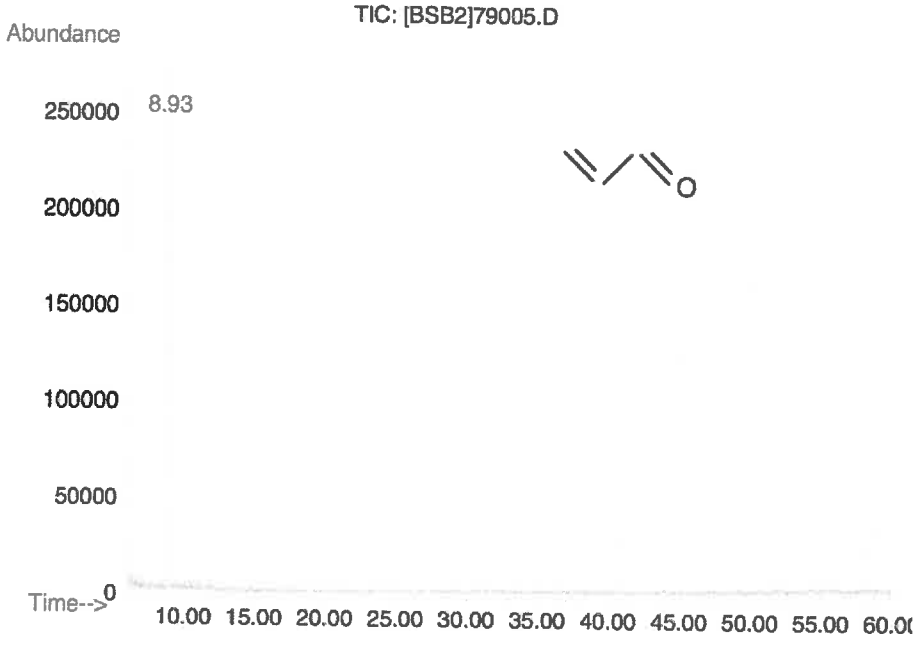
Gabriel Helland 072423
Formulated By: Gabriel Helland DATE

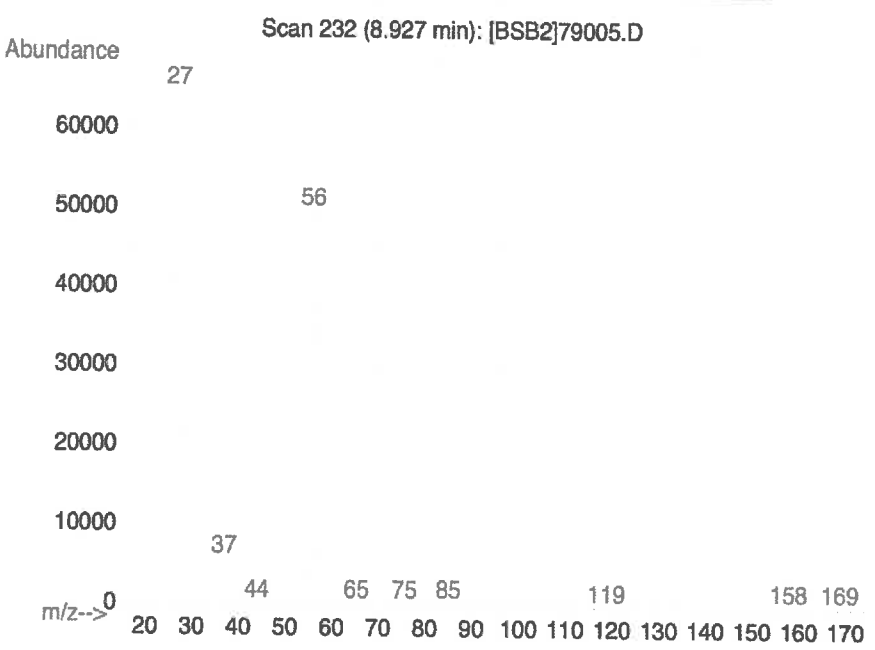
Pedro Rentas 072423
Reviewed By: Pedro L. Rentas DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	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	

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — NA
Conditions to avoid — NA
Materials to avoid — NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat — NA
LC50 Inhalation - Rat — NA
LD50 Dermal - Guinea pig — NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 — NA
EC50 — NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 102422Q

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

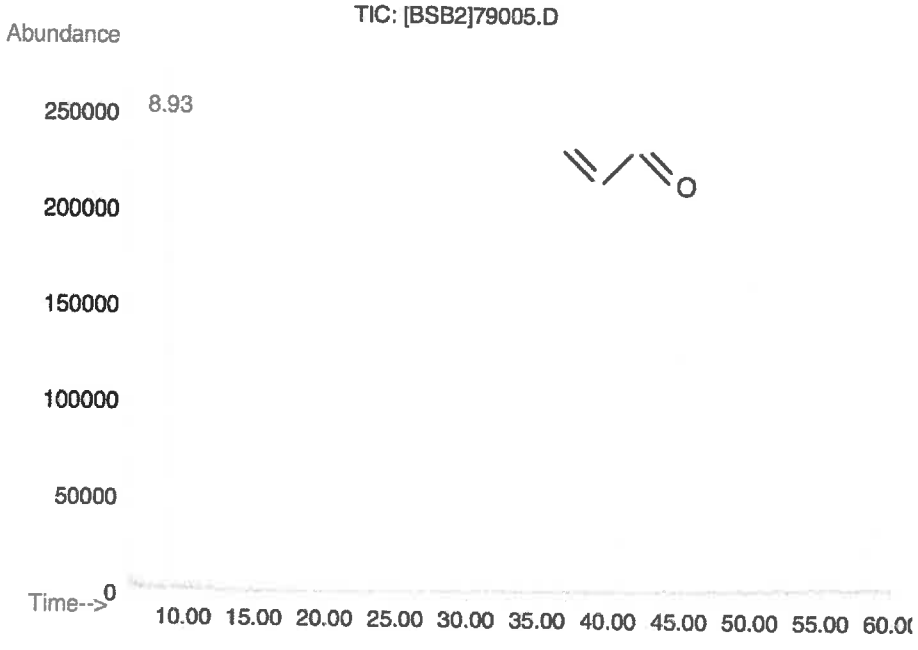
Weight(s) shown below were combined and diluted to (mL): 10.0

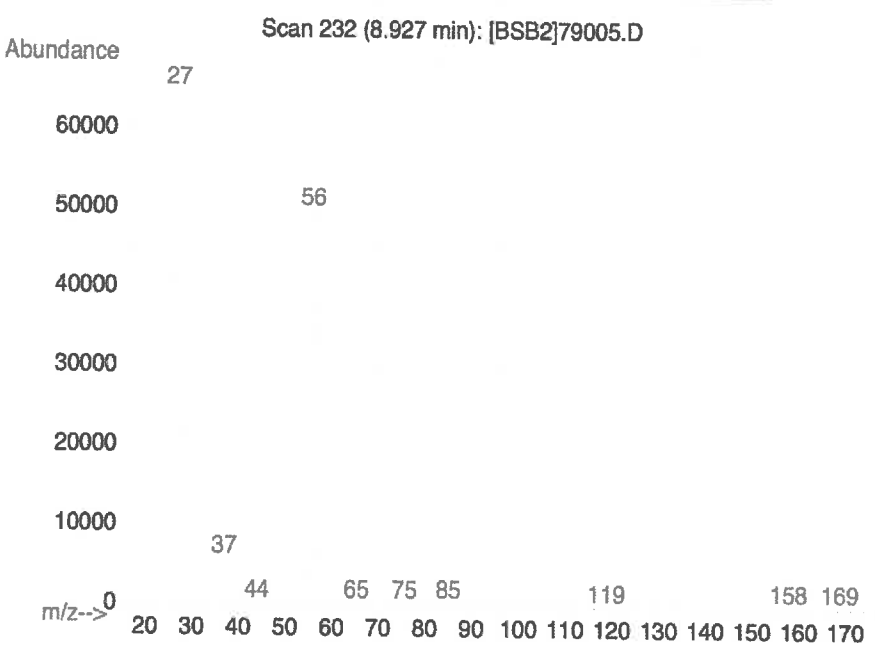
Gabriel Helland 072423
Formulated By: Gabriel Helland DATE

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. 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	

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA
Solubility in Water	Completely miscible		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 102422Q

5 Sony

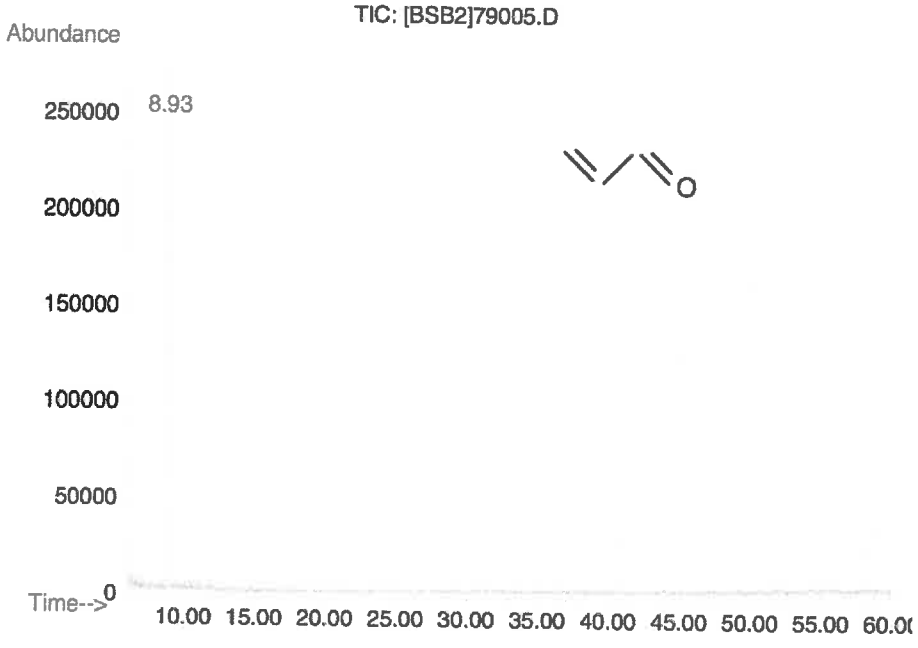
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

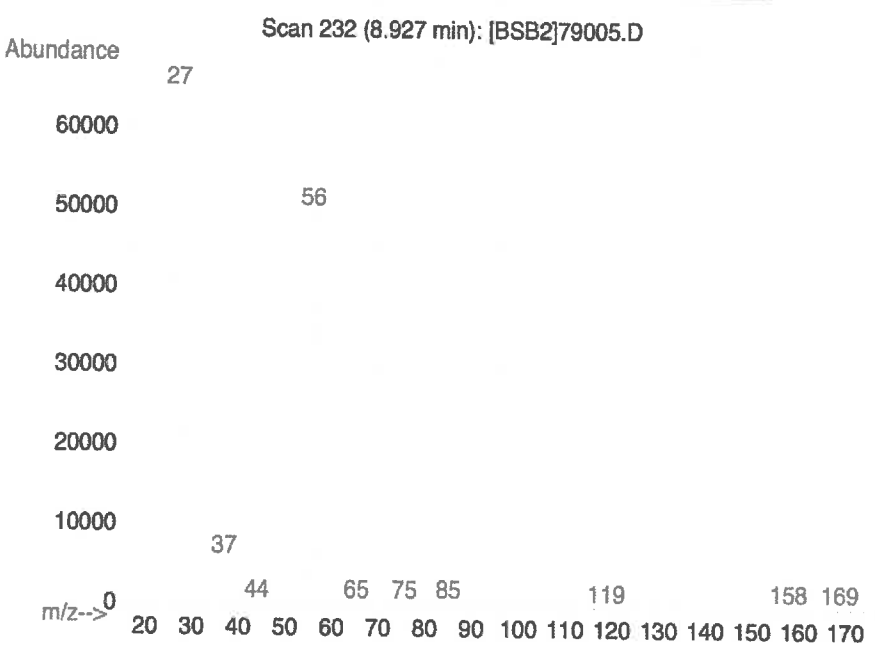
Gabriel Helland 072423
Formulated By: Gabriel Helland DATE

Pedro Rentas 072423
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R09M	5000	97.1	0.5	0.05160	0.05170	5009.2	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. 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	

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

	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: 081524
Description: Acrolein

Expiration Date: 091524
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 121123Q

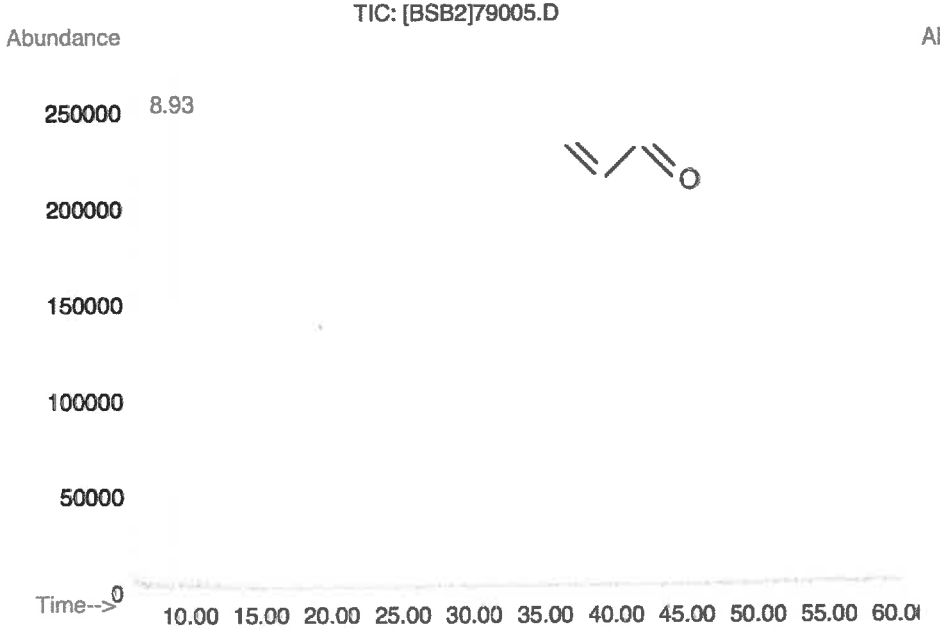
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Gabriel Helland	081524 DATE
Reviewed By:	Pedro L. Rentas	081524 DATE

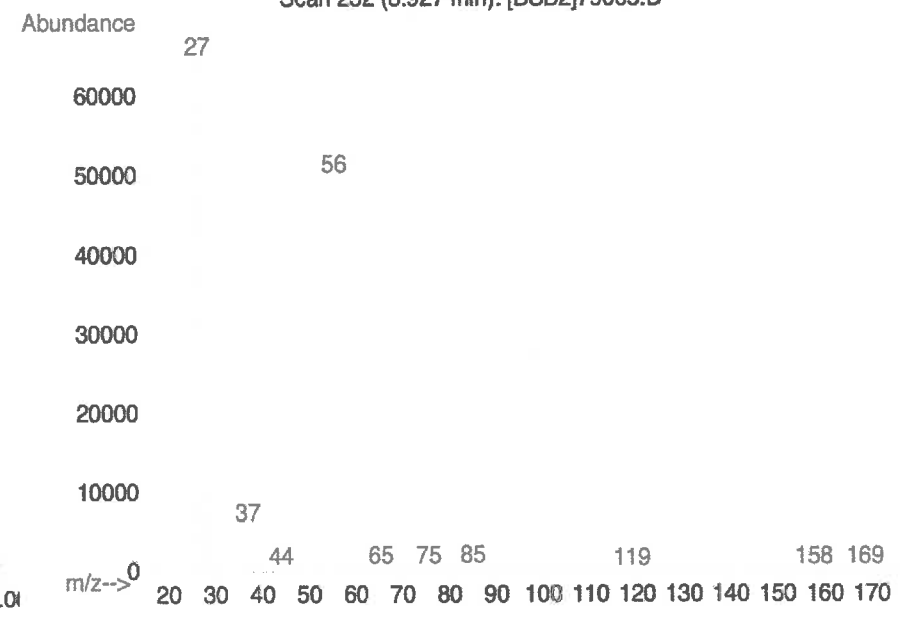
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05170	5004.1	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.

TIC: [BSB2]79005.D



Scan 232 (8.927 min): [BSB2]79005.D



- 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.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face 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	

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

	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: 081524
Description: Acrolein

Expiration Date: 091524
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 121123Q

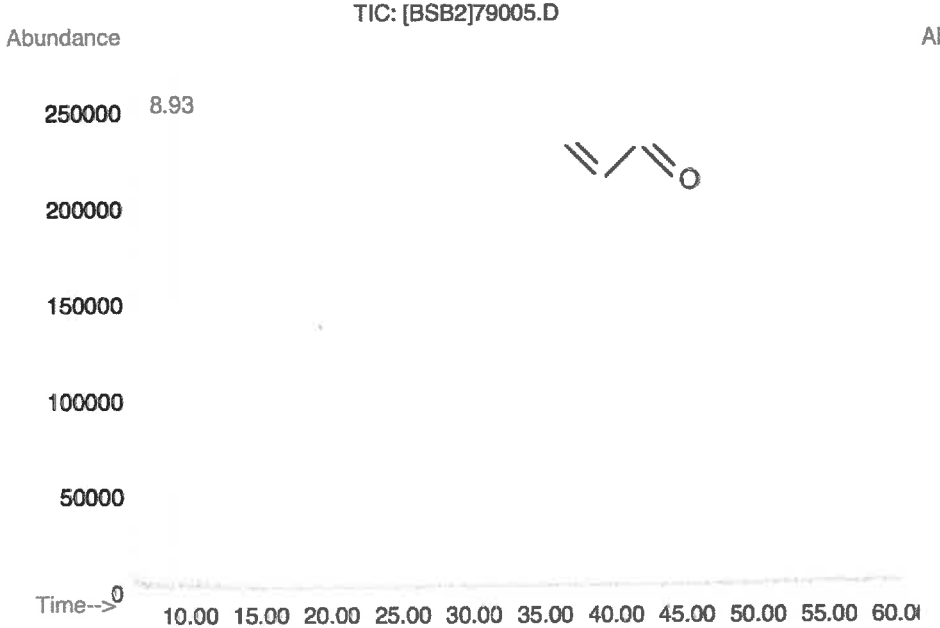
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Gabriel Helland	081524 DATE
Reviewed By:	Pedro L. Rentas	081524 DATE

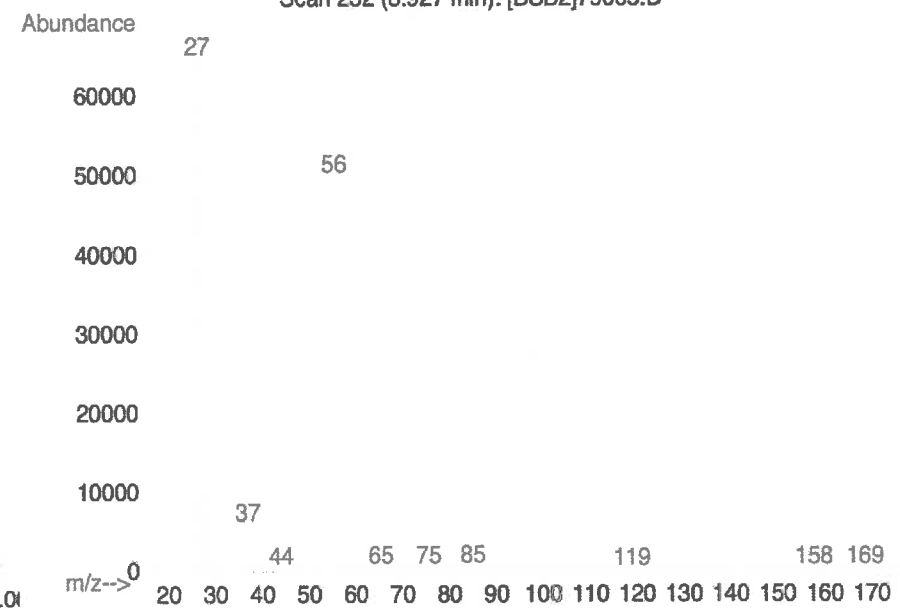
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05170	5004.1	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.

TIC: [BSB2]79005.D



Scan 232 (8.927 min): [BSB2]79005.D



- 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.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face 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	

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

	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: 081524
Description: Acrolein

Expiration Date: 091524
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 121123Q

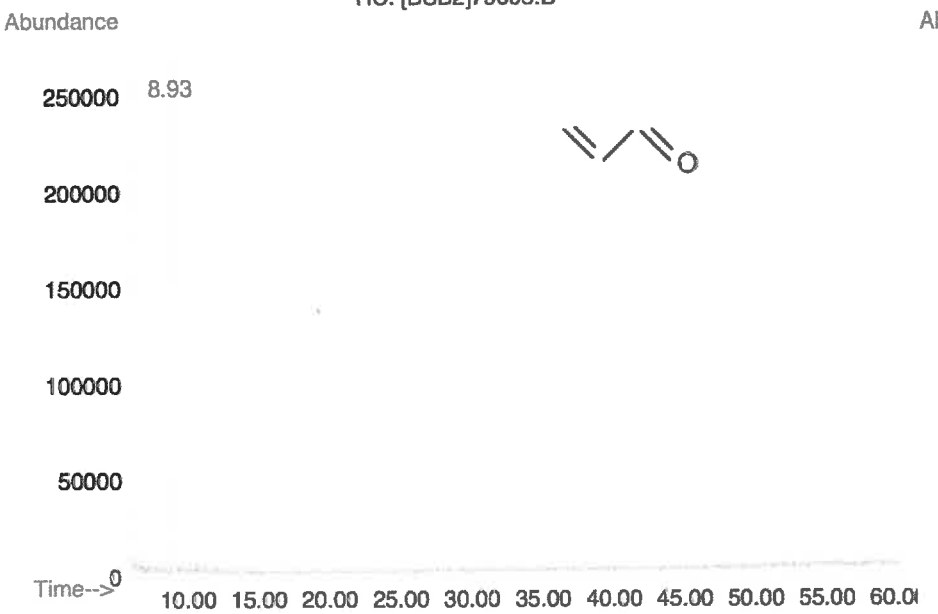
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Gabriel Helland	081524 DATE
Reviewed By:	Pedro L. Rentas	081524 DATE

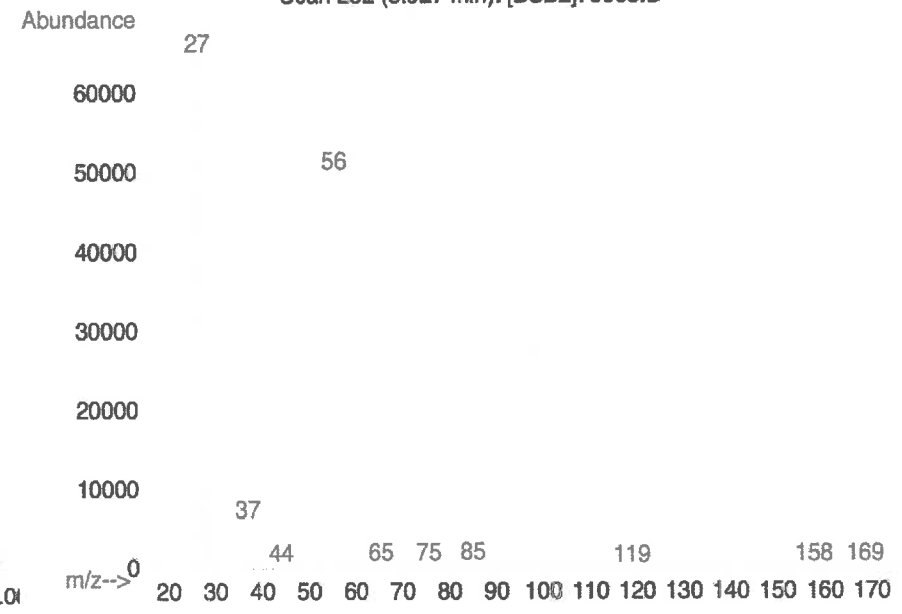
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05170	5004.1	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.

TIC: [BSB2]79005.D



Scan 232 (8.927 min): [BSB2]79005.D



- 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.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face 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	

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — NA
Conditions to avoid — NA
Materials to avoid — NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat — NA
LC50 Inhalation - Rat — NA
LD50 Dermal - Guinea pig — NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 — NA
EC50 — NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): **Lot#**
Methanol EA899-US

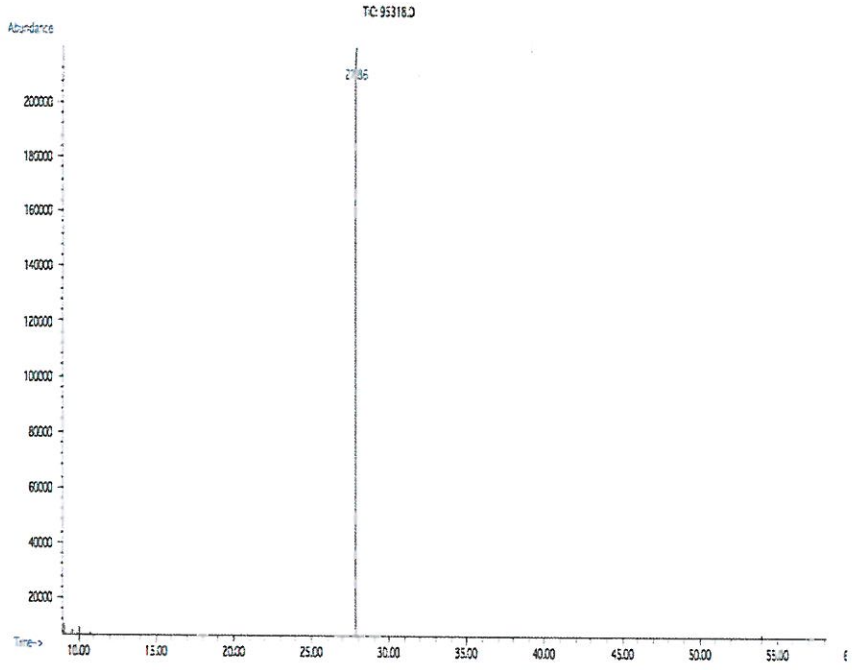
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

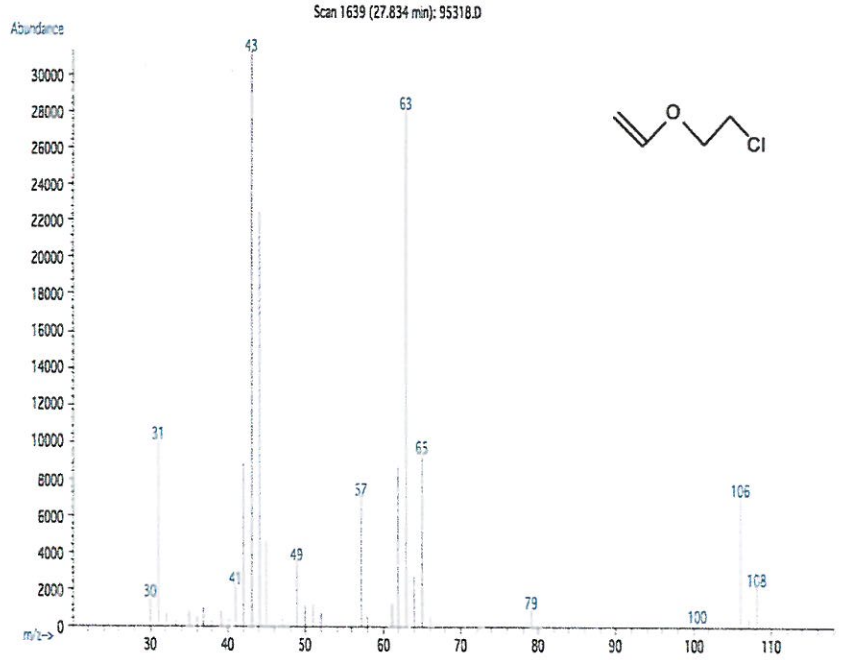
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 30.0 0.0003 Flask Uncertainty

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).

P3671-VOCMS Group5

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): **Lot#**
Methanol EA899-US

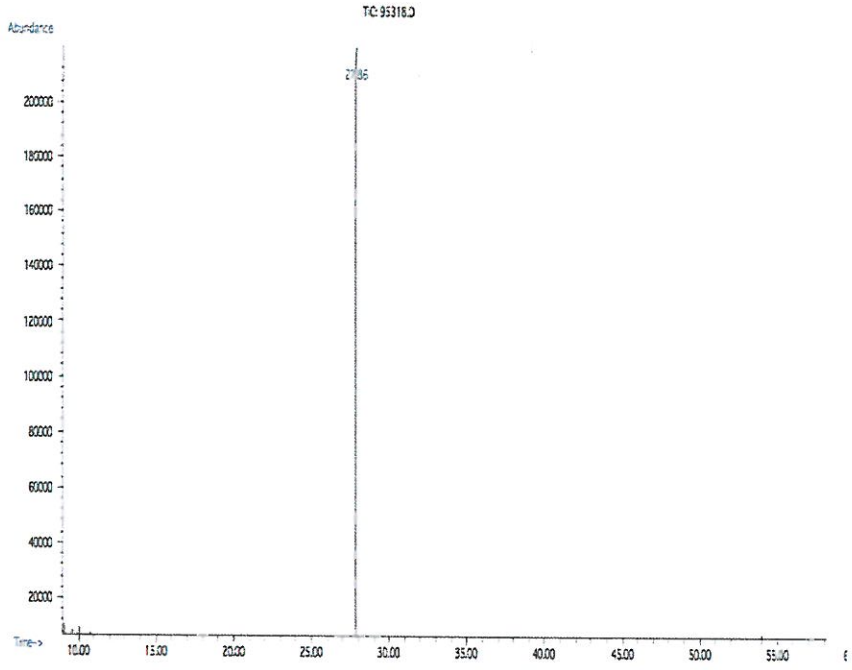
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

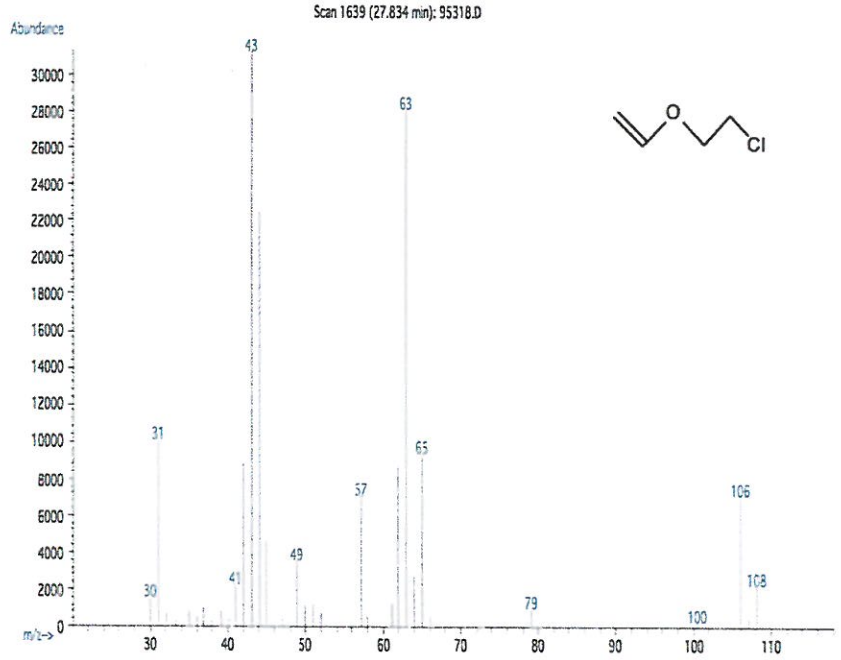
Weight(s) shown below were combined and diluted to (mL): 30.0 | 5E-05 Balance Uncertainty | 0.0003 Flask Uncertainty

		121321
Formulated By:	Benson Chan	DATE
		121321
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

P3671-VOCMS Group5

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 #3223.01

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)

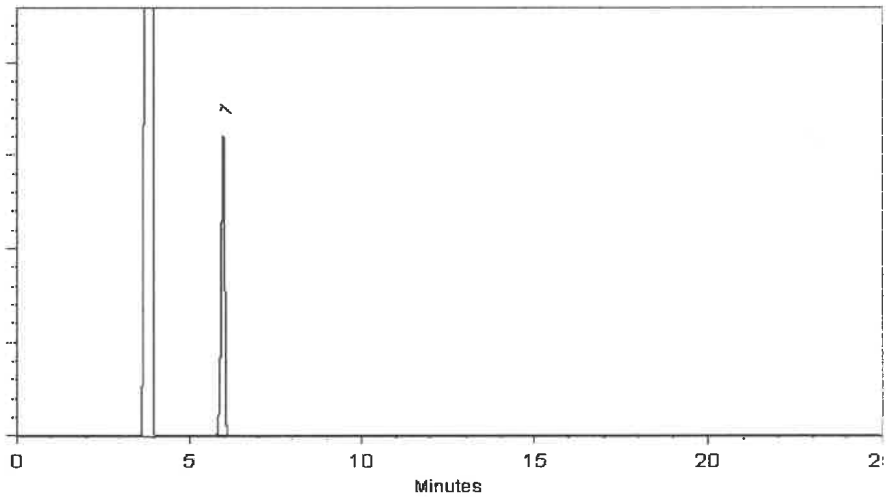
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

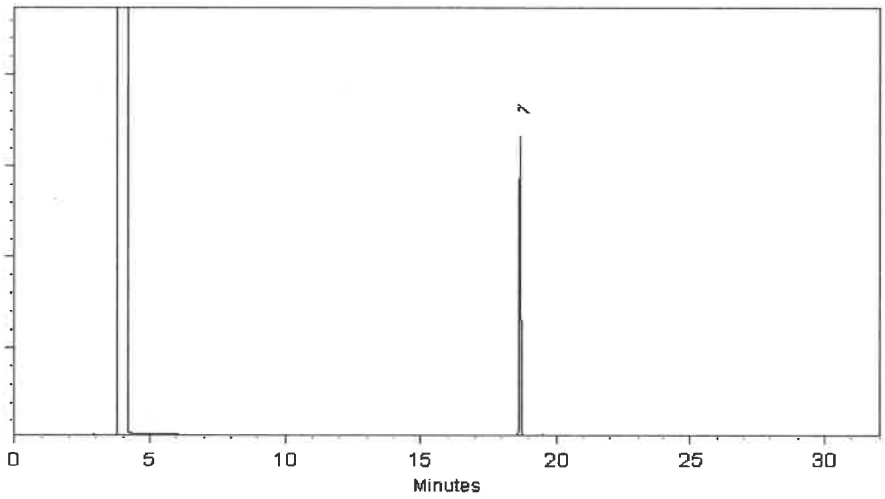
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

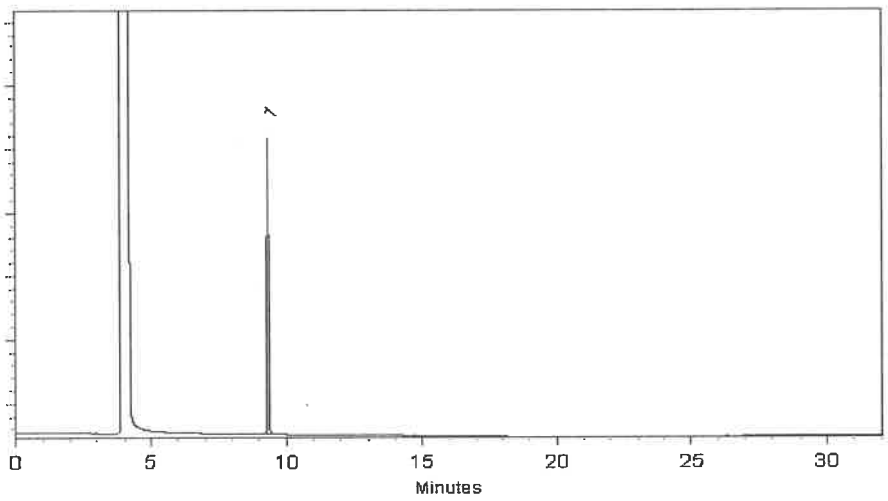
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.

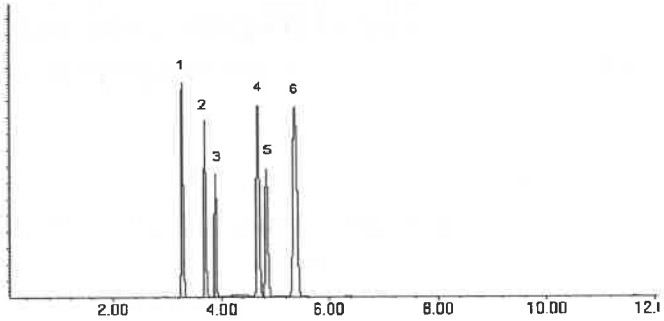
Inj. Temp:
200°C

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.

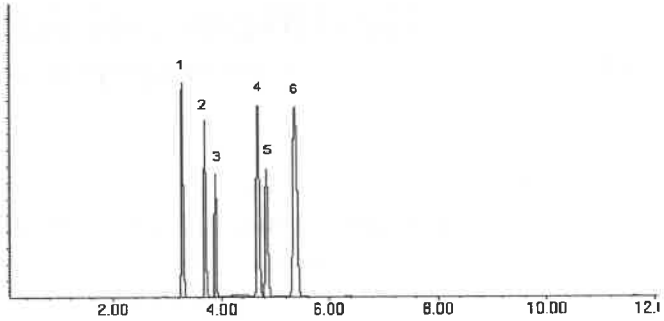
Inj. Temp:
200°C

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.)

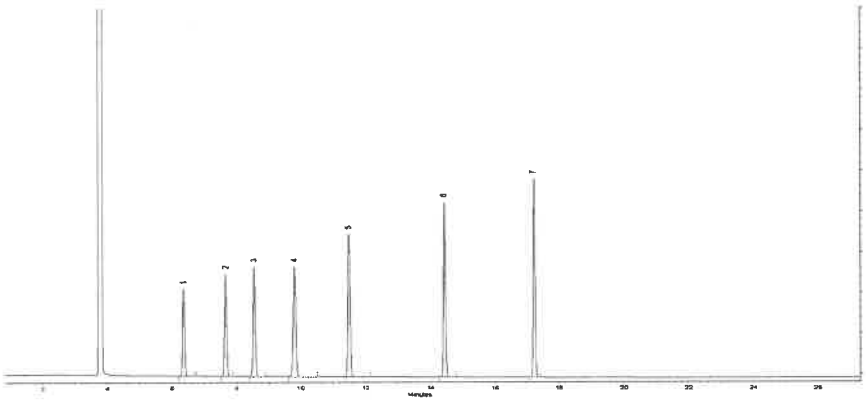
Inj. Temp:
200°C

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

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.)

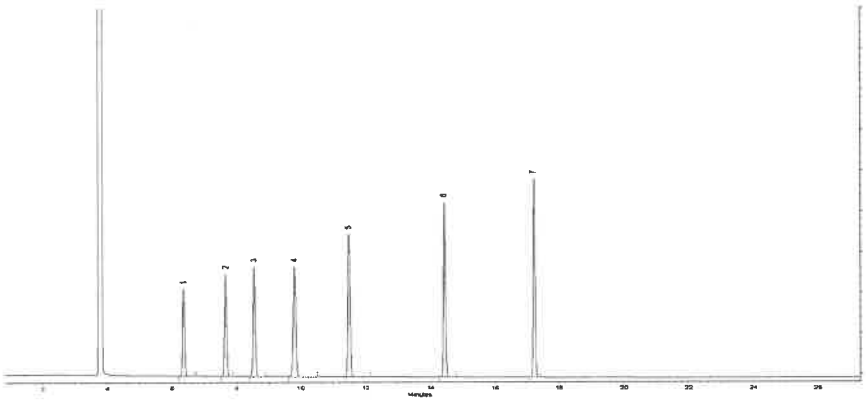
Inj. Temp:
200°C

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

gravimetric

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. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

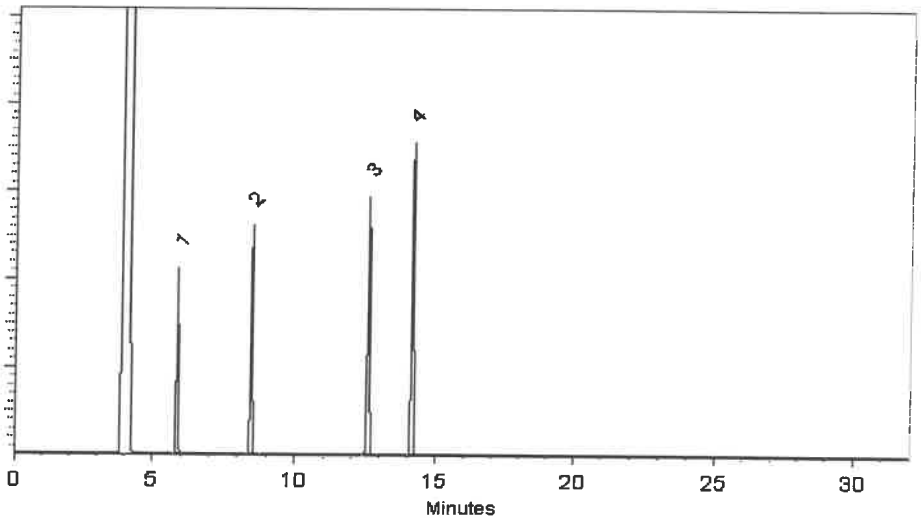
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

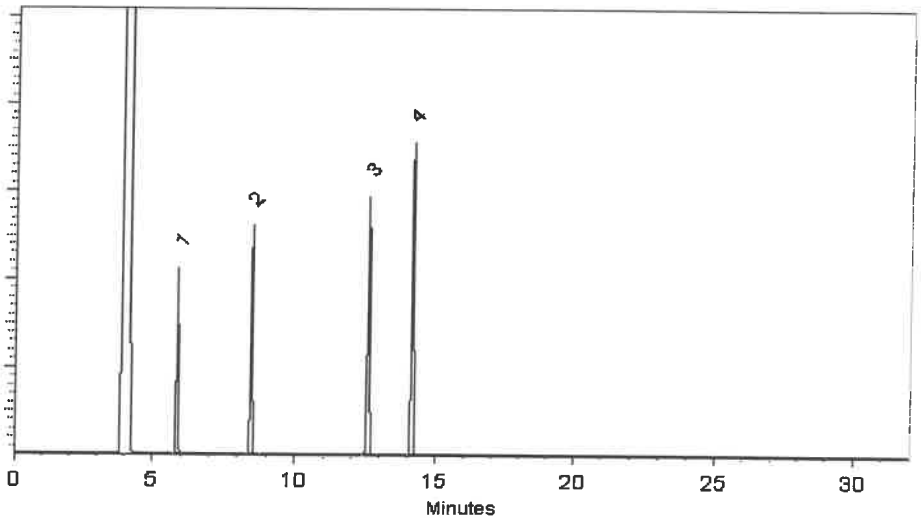
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

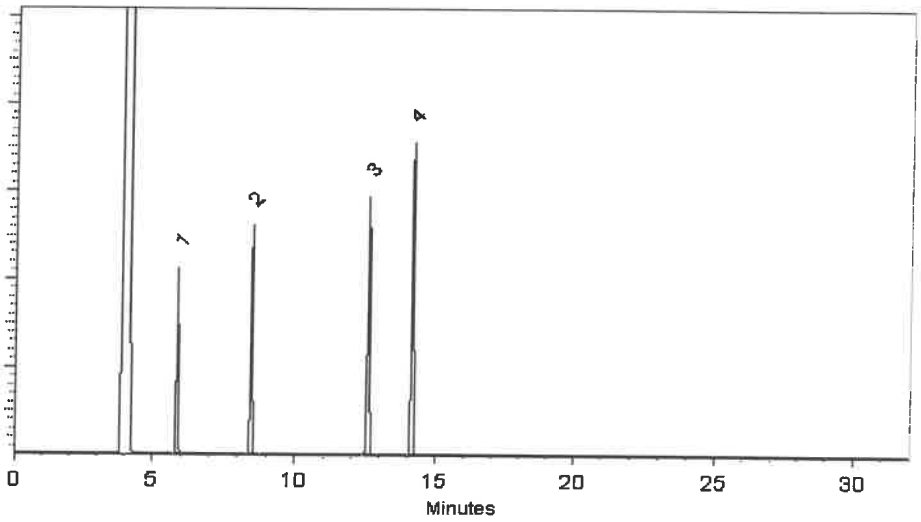
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

12

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0205179

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

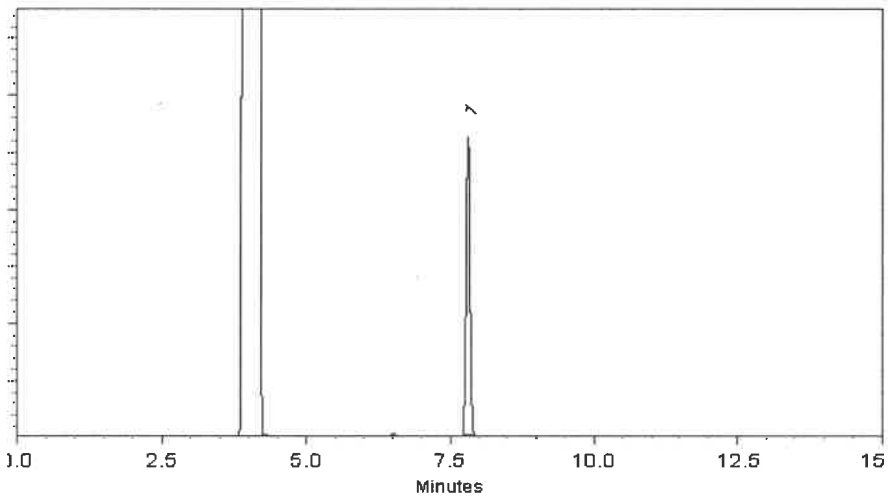
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Daniel Wasson - Operations Tech I

Date Mixed: 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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.)

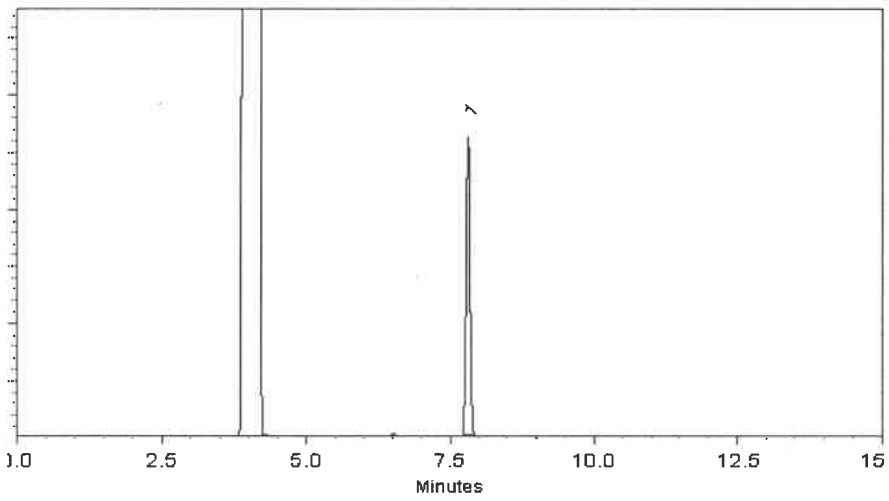
Inj. Temp:
200°C

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

gravimetric

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. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I **Date Mixed:** 11-Apr-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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

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

Preservation Log

BalanceID: VOC-SC-2

Review By: pedro

Supervise By: MMDadoda

Seq	LabID	Vial A Weight(g)= Total Wt-Tare Wt	Vial A Time	Vial B Weight(g)= Total Wt-Tare Wt	Vial B Time	Vial C Weight(g) Preserve with MeOH	Vial C Time	Methanol ID	Preservation Date	Comments
1	P3671-01	38.75-31.27=7.48	11:50	36.76-31.066=5.69	11:51	37.62-31.54=6.08	11:52	V142025	08/21/2024	TERRACORE SAMPLE STORED IN FRZ #2
2	P3671-02	38.56-30.32=8.24	11:53	0-0=0	11:54	0-0=0	11:55	V142025	08/21/2024	
3	P3671-03	36.60-31.93=4.67	11:56	36.62-31.146=5.47	11:57	0-0=0	11:58	V142025	08/21/2024	
4	P3671-04	35.89-30.961=4.93	11:59	35.59-30.864=4.73	12:00	0-0=0	12:01	V142025	08/21/2024	
5	P3671-05	36.31-30.959=5.35	12:02	36.52-31.25=5.27	12:03	0-0=0	12:04	V142025	08/21/2024	
6	P3671-06	38.81-30.920=7.89	12:05	37.87-30.843=7.03	12:06	0-0=0	12:07	V142025	08/21/2024	
7	P3671-07	39.30-31.45=7.85	12:08	7.03-0.0=7.03	12:09	0-0=0	12:10	V142025	08/21/2024	
8	P3671-08	42.90-33.253=9.65	12:11	34.55-29.67=4.88	12:12	0-0=0	12:13	V142025	08/21/2024	
9	P3671-09	36.83-31.364=5.47	12:14	34.56-30.84=3.72	12:15	0-0=0	12:16	V142025	08/21/2024	
10	P3671-10	37.77-31.30=6.47	12:17	35.81-31.04=4.77	12:18	0-0=0	12:19	V142025	08/21/2024	
11	P3671-11	38.61-30.842=7.77	12:20	0-0=0	12:21	0-0=0	12:22	V142025	08/21/2024	
12	P3671-12	39.14-30.94=8.2	12:23	0-0=0	12:24	0-0=0	12:25	V142025	08/21/2024	
13	P3671-13	35.28-30.671=4.61	12:26	33.47-30.597=2.87	12:27	0-0=0	12:28	V142025	08/21/2024	
14	P3671-14	37.09-30.914=6.18	12:29	35.16-30.983=4.18	12:30	0-0=0	12:31	V142025	08/21/2024	

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.

QA Contorl # A3041177

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: P3671 / P3672

COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY: JACOBS	PROJECT NAME: STC PTC	BILL TO: Mary Murphy PO#
ADDRESS: 10, 10th Street Suite 1400	PROJECT #: D379922 LOCATION: Princeton Junction	ADDRESS:
CITY Atlanta STATE: GA ZIP: 30309	PROJECT MANAGER: Mary Murphy	CITY: STATE: ZIP:
ATTENTION: Rachael McSpadden and Melissa Warren	E-MAIL: Mary.Murphy@Jacobs.com	ATTENTION: PHONE:
PHONE: FAX:	PHONE: FAX:	

DATA TURNAROUND INFORMATION

FAX:_____Standard TAT_____ DAYS*
HARD COPY:_____DAYS*
EDD_____DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY (L1)
- ☐ RESULTS + QC (L2)
- ☒ NJ REDUCED (L3)
- ☐ NJ FULL (L4)
- ☐ US EPA CLP (L4)
- ☐ NYS ASP "A" (L2)
- ☐ NYS ASP "B" (L4)
- ☐ Other_____
- ☐ EDD Format_____

ANALYSIS

	1	2	3	4	5	6	7	8	9
	VOCs 8260D	SVOCs (8270E), PAHs (8270E-SIM)	Metals 6020B, Hg 7470B, Cr(VI) 3060A/7196A TOC Lloyd Kahn	TOC Lloyd Kahn	Particle Size Dist ASTM D422	VOCs 5035/8260D	Percent Moisture		
PRESERVATIVES	E	E	E	E	E	F,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.	S-904-J-SO-0-0.5-081924	SO	X	X	8-19-24	0915	8		1	1		2	3	1			See attached Table for analyte list for each method
2.	S-904-J-SO-0.5-1.0-081924	SO	X	X	8-19-24	0930	8		1	1		2	3	1			
3.	S-911-KJ-SO-6-0.5-081924	SO	X	X	8-19-24	0945	8		1	1		2	3	1			
4.	S-911-KJ-SO-0.5-1-081924	SO	X	X	8-19-24	1000	8		1	1		2	3	1			
5.	S-911-KJ-SO-0-0.5-081924-FD	SO	X	X	8-19-24	1010	6		1	1			3	1			
6.	S-905-KJ-SO-0-0.5-081924-	SO	X	X	8-19-24	1030	8		1	1		2	3	1			
7.	S-905-KJ-SO-0-0.5-081924-FD	SO	X	X	8-19-24	1035	6		1	1			3	1			
8.	S-905-KJ-SO-0.5-1.0-081924	SO	X	X	8-19-24	1045	8		1	1		2	3	1			
9.	S-928-KJ-SO-0-0.5-081924	SO	X	X	8-19-24	1210	8		1	1		2	3	1			
10.	S-928-KJ-SO-0.5-1.0-081924	SO	X	X	8-19-24	1220	8		1	1		2	3	1			

COMMENTS <-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	8-19-24 1705	1. 8-19-24 1705
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.	8-19-24 1920	3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.0 C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?:_____
Comments:
All analytes to be run for requested analytes associated with Soil Eco work.

Page 1 of 2

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

Copyright © 10/2021

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: P3671 / P3672

COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY: JACOBS	PROJECT NAME: STC PTC	BILL TO: Mary Murphy PO#
ADDRESS: 10, 10th Street Suite 1400	PROJECT #: D379922 LOCATION: Princeton Junction	ADDRESS:
CITY Atlanta STATE: GA ZIP: 30309	PROJECT MANAGER: Mary Murphy	CITY: STATE: ZIP:
ATTENTION: Rachael McSpadden and Melissa Warren	E-MAIL: Mary.Murphy@Jacobs.com	ATTENTION: PHONE:
PHONE: FAX:	PHONE: FAX:	

DATA TURNAROUND INFORMATION

FAX:_____Standard TAT_____ DAYS*
HARD COPY:_____DAYS*
EDD_____DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY (L1)
- ☐ RESULTS + QC (L2)
- ☐ NJ REDUCED (L3)
- ☐ NJ FULL (L4)
- ☐ US EPA CLP (L4)
- ☐ NYS ASP "A" (L2)
- ☐ NYS ASP "B" (L4)
- ☐ Other_____
- ☐ EDD Format_____

ANALYSIS

	1	2	3	4	5	6	7	8	9
	VOCs 8260D	SVOCs (8270E), PAHs (8270E-SIM)	Metals 6020B, Hg 7470B, Cr(VI) 3060A/7196A TOC Lloyd Kahn	TOC Lloyd Kahn	Particle Size Dist ASTM D422	VOCs 5035/8260D	Percent Moisture		
PRESERVATIVES	E	E	E	E	E	F,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
1.	~~S-903-J-0-0.5-081924~~															
2.	~~S-903-J-0.5-1.0-08~~															
3.	S-903-J-SO-0-0.5-081924	SO	X	X	8-19-24	1310	8		1	1		2	3	1		
4.	S-903-J-SO-0.5-1.0-081924	SO	X	X	8-19-24	1320	8		1	1		2	3	1		
5.	S-912-J-SO-0-0.5-081924	SO	X	X	8-19-24	1330	8		1	1		2	3	1		
6.	S-912-J-SO-0.5-1-081924	SO	X	X	8-19-24	1340	8		1	1		2	3	1		
7.	TB-01-081924	DI		X	8-19-24	0940	1						1			
8.																
9.																
10.																

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

See attached Table for analyte list for each method

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME		
RELINQUISHED BY SAMPLER 1.	8-19-24 1705	RECEIVED BY 1.	1705 8-19-24
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.	
RELINQUISHED BY 3.	DATE/TIME 1820 8-19-24	RECEIVED FOR LAB BY 3.	

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.0°C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?:_____
Comments:
All analytes to be run for requested analytes associated with Soil Eco work.

Page 2 of 2

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

Copyright © 10/2021

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	P3671 JACO05	**Order Date :**	8/20/2024 10:36:00 AM	**Project Mgr :**	Kiran
Client Name :	JACOBS Engineering Grou	**Project Name :**	Former Schlumberger Site I	**Report Type :**	Level 4
Client Contact :	Mary I. Murphy	**Receive DateTime :**	8/19/2024 6:20:00 PM	**EDD Type :**	CH2MHILL
Invoice Name :	JACOBS Engineering Grou	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Mary I. Murphy			**Date Signoff :**	8/20/2024 1:52:05 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3671-01	S-904-J-SO-0-0.5-081924	Solid	08/19/2024	09:15					
					VOCMS Group5		8260D		10 Bus. Days
P3671-02	S-904-J-SO-0.5-1.0-081924	Solid	08/19/2024	09:30					
					VOCMS Group5		8260D		10 Bus. Days
P3671-03	S-911-K1-SO-0-0.5-081924	Solid	08/19/2024	09:45					
					VOCMS Group5		8260D		10 Bus. Days
P3671-04	S-911-K1-SO-0.5-1-081924	Solid	08/19/2024	10:00					
					VOCMS Group5		8260D		10 Bus. Days
P3671-05	S-911-K1-SO-0-0.5-081924-FD	Solid	08/19/2024	10:10					
					VOCMS Group5		8260D		10 Bus. Days
P3671-06	S-905-KJ-SO-0-0.5-081924	Solid	08/19/2024	10:30					
					VOCMS Group5		8260D		10 Bus. Days
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	Solid	08/19/2024	10:35					
					VOCMS Group5		8260D		10 Bus. Days
P3671-08	S-905-J-SO-0.5-1.0-081924	Solid	08/19/2024	10:45					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	P3671 JACO05	**Order Date :**	8/20/2024 10:36:00 AM	**Project Mgr :**	Kiran
Client Name :	JACOBS Engineering Grou	**Project Name :**	Former Schlumberger Site I	**Report Type :**	Level 4
Client Contact :	Mary I. Murphy	**Receive DateTime :**	8/19/2024 6:20:00 PM	**EDD Type :**	CH2MHILL
Invoice Name :	JACOBS Engineering Grou	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Mary I. Murphy			**Date Signoff :**	8/20/2024 1:52:05 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group5		8260D	10 Bus. Days	
P3671-09	S-928-K1-SO-0-0.5-081924	Solid	08/19/2024	12:10					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-10	S-928-K1-SO-0.5-1-081924	Solid	08/19/2024	12:20					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-11	S-903-J-SO-0-0.5-081924	Solid	08/19/2024	13:10					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-12	S-903-J-SO-0.5-1.0-081924	Solid	08/19/2024	13:20					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-13	S-912-J-SO-0-0.5-081924	Solid	08/19/2024	13:30					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-14	S-912-J-SO-0.5-1-081924	Solid	08/19/2024	13:40					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-15	TB-01-081924	Water	08/19/2024	09:40					
					VOCMS Group6		8260-Low	10 Bus. Days	

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	P3671 JACO05	**Order Date :**	8/20/2024 10:36:00 AM	**Project Mgr :**	
Client Name :	JACOBS Engineering Grou	**Project Name :**	Former Schlumberger Site I	**Report Type :**	Level 4
Client Contact :	Mary I. Murphy	**Receive DateTime :**	8/19/2024 6:20:00 PM	**EDD Type :**	CH2MHILL
Invoice Name :	JACOBS Engineering Grou	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Mary I. Murphy			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : _____
Date / Time : 8/20/24 1330

Received By : _____
Date / Time : 8/20/24 1330
Storage Area : VOA Refridgerator Room

Ref 6 Pg 2 Pg #5