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 : P3451

ATTENTION : Mary I. Murphy

Laboratory Certification ID # 20012

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Cover Page

Order ID : P3451

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number	Client Sample Number
P3451-01	921-J-WS-080124
P3451-02	TB-03-080124

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

Signature : _____

Date: 10/14/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

JACOBS Engineering Group, Inc.
Project Name: Former Schlumberger Site Princeton NJ
Project # N/A
Chemtech Project # P3451
Test Name: VOCMS Group6

A. Number of Samples and Date of Receipt:
2 Water samples were received on 08/01/2024.

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

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
This data package has been revised due to parameter list changed
Samples for MS/MSD for VOC analysis were not provided with this set of samples therefore lab used from another project.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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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_____

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908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P3451 MATRIX: Water

METHOD: 8260D

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

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

NA NO YES

ADDITIONAL COMMENTS:

This data package has been revised due to parameter list changed

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

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

_____ _____

QA REVIEW Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3451

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of 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: _____ **Date:** _____

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LAB CHRONICLE

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

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

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Hit Summary Sheet
SW-846

SDG No.: P3451

Client: JACOBS Engineering Group, Inc.

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

QC SUMMARY

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Surrogate Summary

SDG No.: P3451

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

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

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P3451

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

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

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P3451

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

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

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3451

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VN083276.D

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

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0813WBL02

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG NO.: P3451

Lab File ID: VN083274.D Lab Sample ID: VN0813WBL02

Date Analyzed: 08/14/2024 Time Analyzed: 03:22

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0813WBS03	VN0813WBS03	VN083276.D	08/14/2024
921-J-WS-080124	P3451-01	VN083283.D	08/14/2024
TB-03-080124	P3451-02	VN083284.D	08/14/2024
924-K1-WP0-0.25-080224MS	P3466-02MS	VN083291.D	08/14/2024
924-K1-WP0-0.25-080224MSD	P3466-03MSD	VN083292.D	08/14/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG NO.: P3451

Lab File ID: VN083134.D BFB Injection Date: 08/07/2024

Instrument ID: MSVOA_N BFB Injection Time: 10:09

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.2 (0.3) 1
174	50.0 - 100.0% of mass 95	66.5
175	5.0 - 9.0% of mass 174	4.9 (7.4) 1
176	95.0 - 101.0% of mass 174	64.4 (96.9) 1
177	5.0 - 9.0% of mass 176	4.1 (6.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN083135.D	08/07/2024	10:33
VSTDICCC050	VSTDICCC050	VN083136.D	08/07/2024	10:58
VSTDICC020	VSTDICC020	VN083137.D	08/07/2024	11:22
VSTDICC010	VSTDICC010	VN083138.D	08/07/2024	11:46
VSTDICC005	VSTDICC005	VN083139.D	08/07/2024	12:10
VSTDICC001	VSTDICC001	VN083140.D	08/07/2024	12:34

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG NO.: P3451

Lab File ID: VN083272.D BFB Injection Date: 08/14/2024

Instrument ID: MSVOA_N BFB Injection Time: 01:50

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.1
75	30.0 - 60.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.2 (0.3) 1
174	50.0 - 100.0% of mass 95	69.4
175	5.0 - 9.0% of mass 174	5.4 (7.8) 1
176	95.0 - 101.0% of mass 174	67.3 (97) 1
177	5.0 - 9.0% of mass 176	4.8 (7.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN083273.D	08/14/2024	02:14
VN0813WBL02	VN0813WBL02	VN083274.D	08/14/2024	03:22
VN0813WBS03	VN0813WBS03	VN083276.D	08/14/2024	04:10
921-J-WS-080124	P3451-01	VN083283.D	08/14/2024	07:16
TB-03-080124	P3451-02	VN083284.D	08/14/2024	07:40
924-K1-WP0-0.25-080224MS	P3466-02MS	VN083291.D	08/14/2024	10:28
924-K1-WP0-0.25-080224MSD	P3466-03MSD	VN083292.D	08/14/2024	10:52

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG NO.: P3451

Lab File ID: VN083273.D Date Analyzed: 08/14/2024

Instrument ID: MSVOA_N Time Analyzed: 02:14

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	173401	8.22	306155	9.10	269814	11.87
UPPER LIMIT	346802	8.724	612310	9.6	539628	12.365
LOWER LIMIT	86700.5	7.724	153078	8.6	134907	11.365
EPA SAMPLE NO.						
921-J-WS-080124	130924	8.22	257809	9.10	269897	11.87
TB-03-080124	138901	8.22	271745	9.10	276868	11.87
924-K1-WP0-0.25-080224MS	147545	8.22	267105	9.10	236618	11.87
924-K1-WP0-0.25-080224MSD	154428	8.23	282107	9.10	251921	11.87
VN0813WBL02	150257	8.22	292620	9.11	300089	11.87
VN0813WBS03	163931	8.22	287598	9.10	244933	11.87

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG NO.: P3451

Lab File ID: VN083273.D Date Analyzed: 08/14/2024

Instrument ID: MSVOA_N Time Analyzed: 02:14

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

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

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

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

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

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

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Report of Analysis

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

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.0		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.3		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.9		70 (77) - 130 (121)	116%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	131000	8.224			
540-36-3	1,4-Difluorobenzene	258000	9.1			
3114-55-4	Chlorobenzene-d5	270000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	123000	13.794			

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

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

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

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

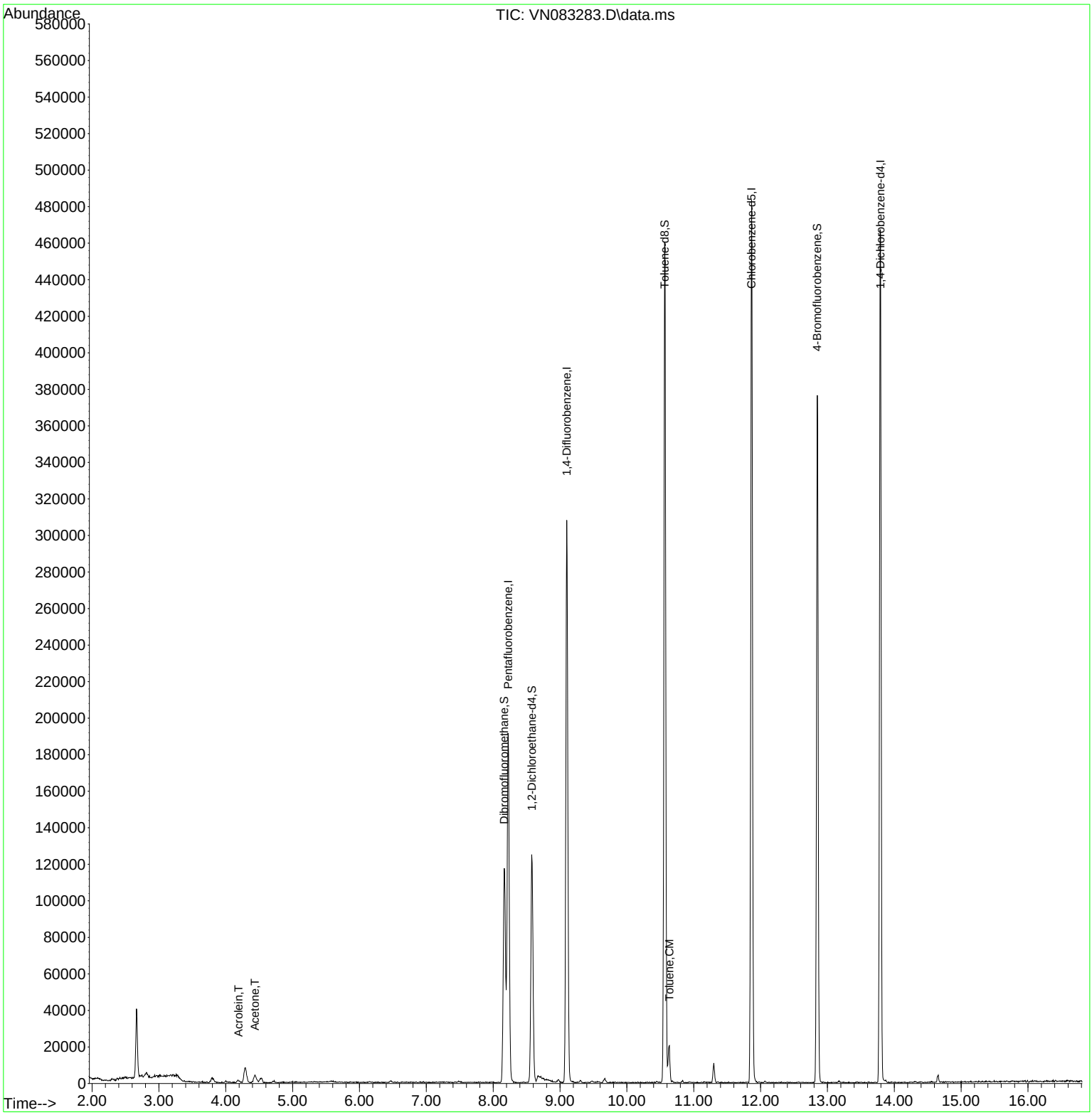
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	130924	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	257809	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	269897	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	123166	50.000	ug/l	0.00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

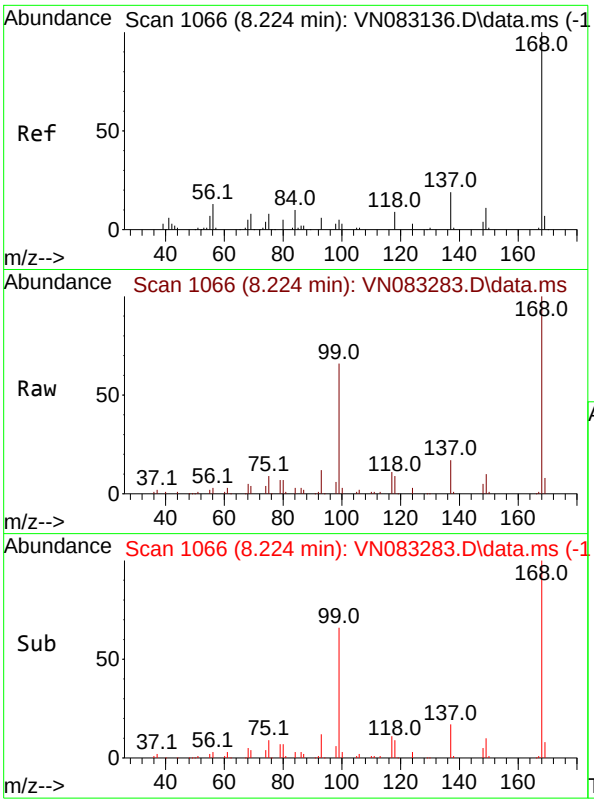
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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

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



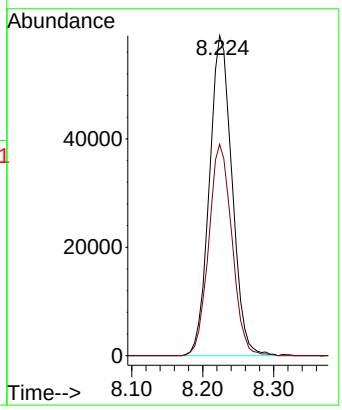


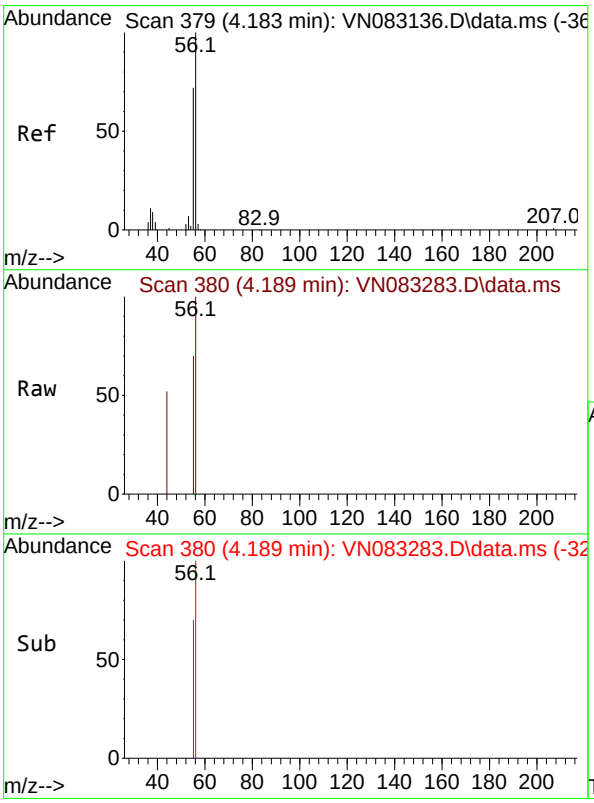
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

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

Tgt Ion:168 Resp: 130924

Ion	Ratio	Lower	Upper
168	100		
99	66.1	48.2	72.4

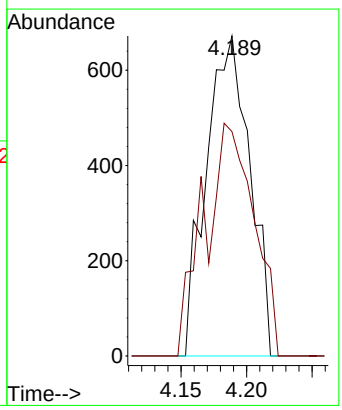


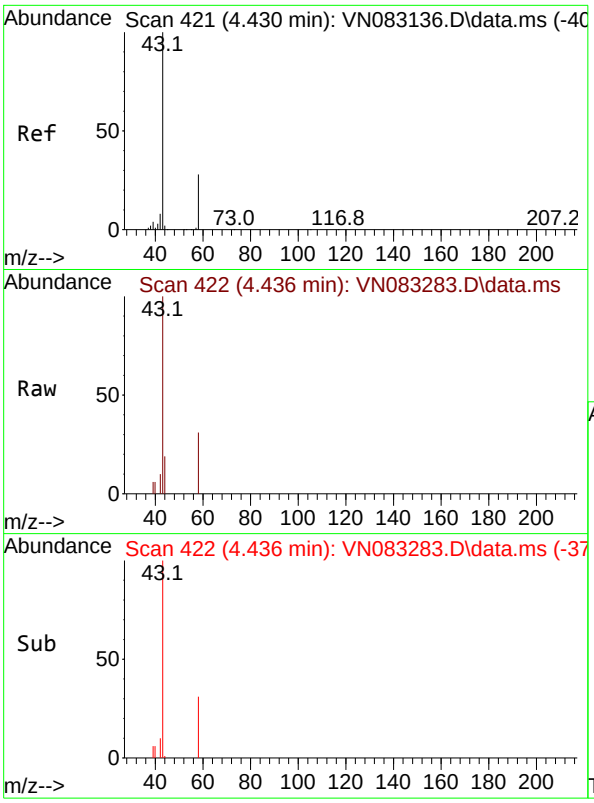


#13
Acrolein
Concen: 6.145 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.006 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

Tgt Ion: 56 Resp: 1551

Ion	Ratio	Lower	Upper
56	100		
55	83.4	56.4	84.6



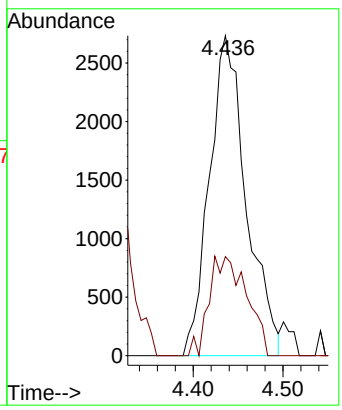


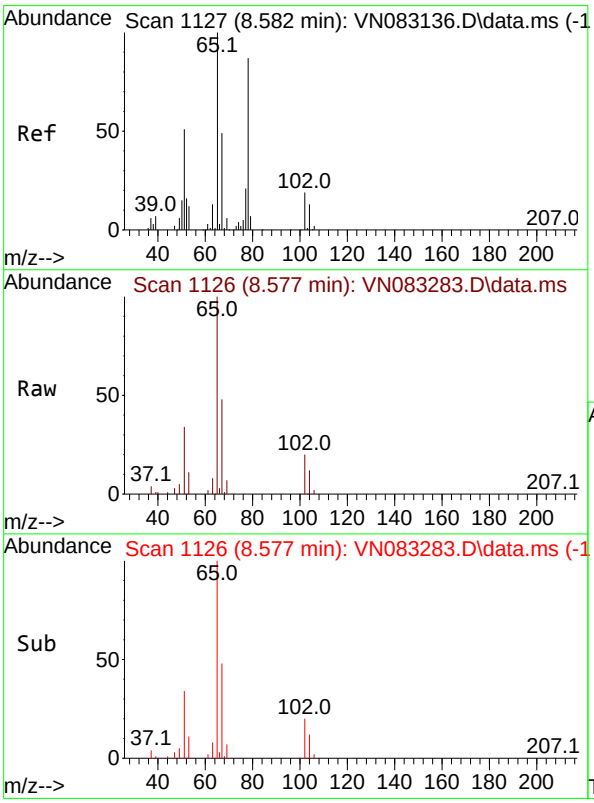
#16
Acetone
Concen: 10.699 ug/l
RT: 4.436 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

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

Tgt Ion: 43 Resp: 7802

Ion	Ratio	Lower	Upper
43	100		
58	30.9	21.8	32.6

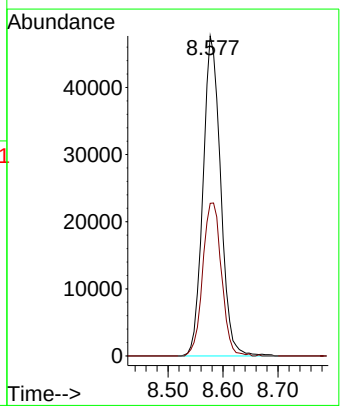


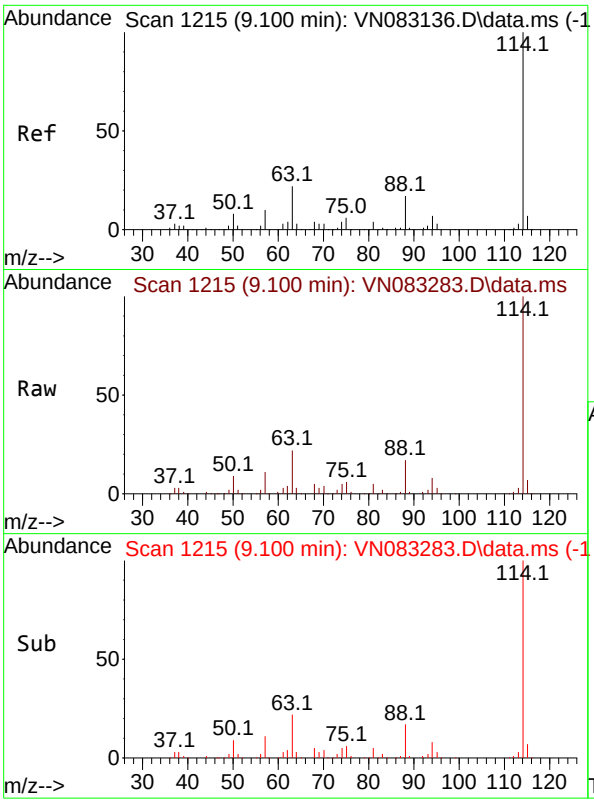


#33
1,2-Dichloroethane-d4
Concen: 57.006 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

Tgt Ion: 65 Resp: 106234

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	104.4



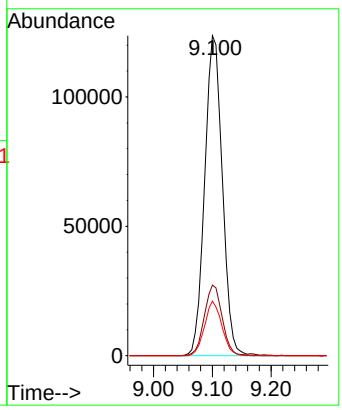


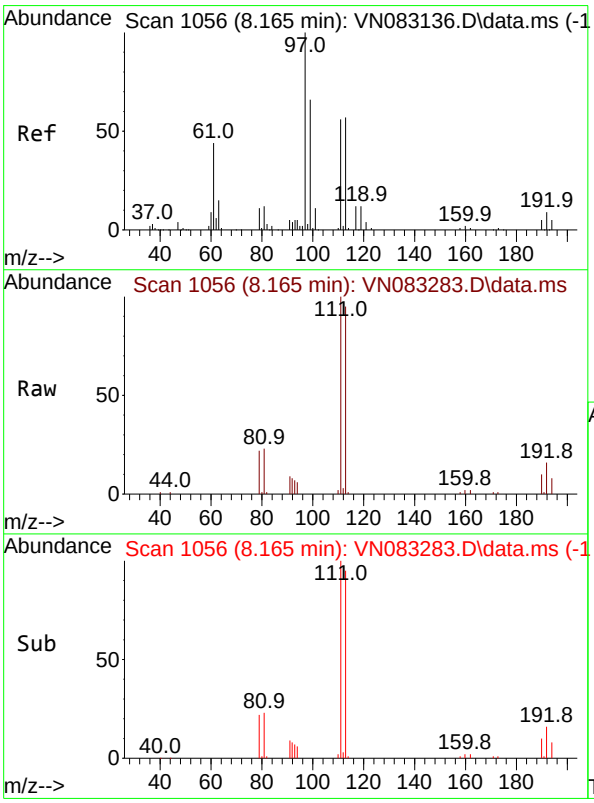
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

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

Tgt Ion:114 Resp: 257809

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.6
88	17.0	0.0	31.4

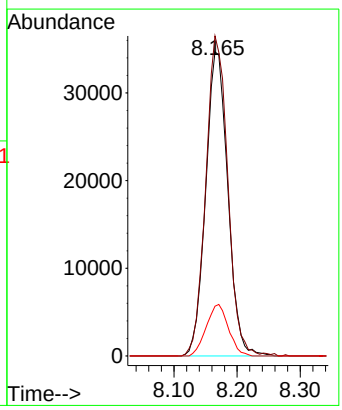


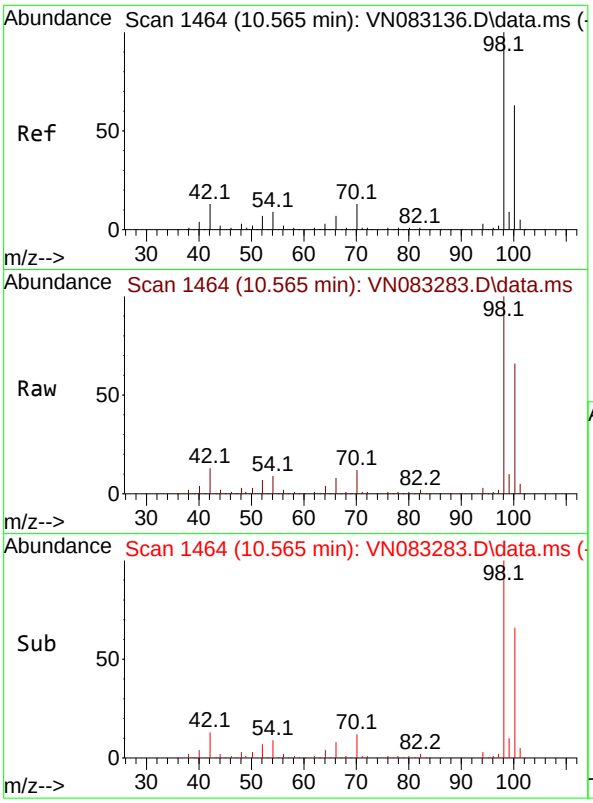


#35
Dibromofluoromethane
Concen: 52.628 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

Tgt Ion:113 Resp: 84689

Ion	Ratio	Lower	Upper
113	100		
111	104.4	82.4	123.6
192	16.9	14.9	22.3



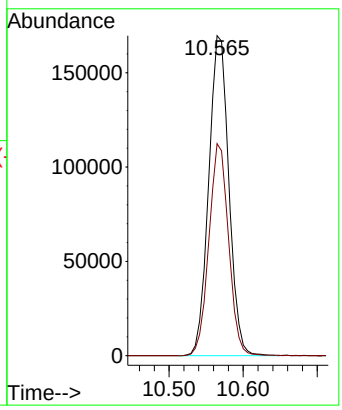


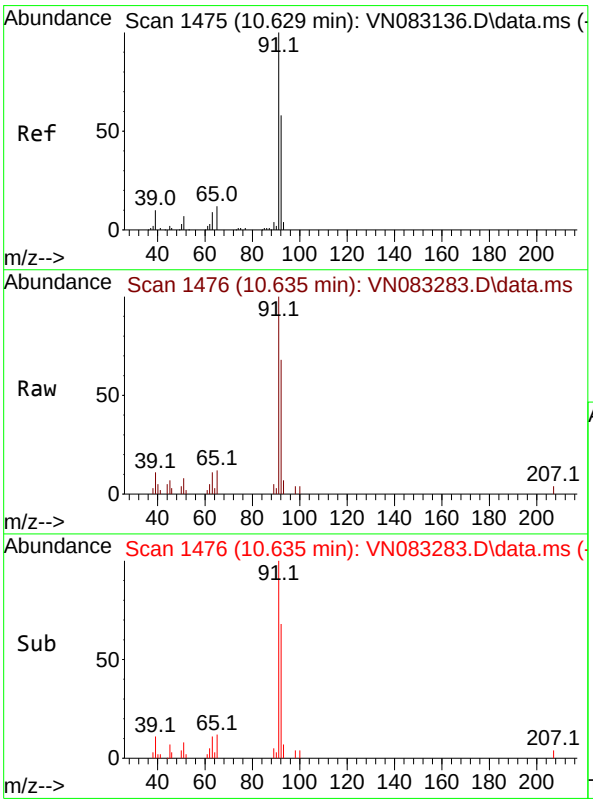
#50
Toluene-d8
Concen: 53.250 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

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

Tgt Ion: 98 Resp: 319644

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.5	77.3

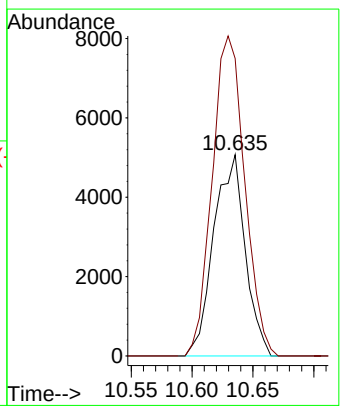


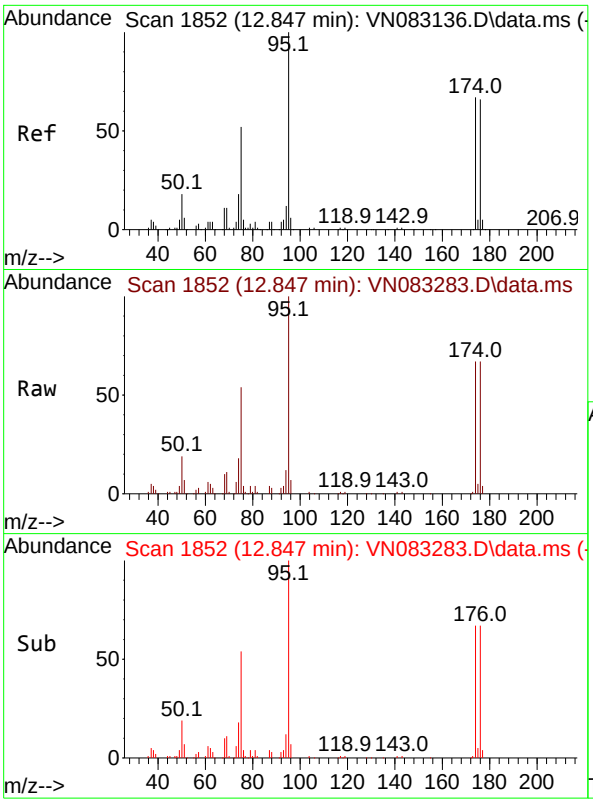


#52
Toluene
Concen: 1.985 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

Tgt Ion: 92 Resp: 9096

Ion	Ratio	Lower	Upper
92	100		
91	165.2	139.4	209.0



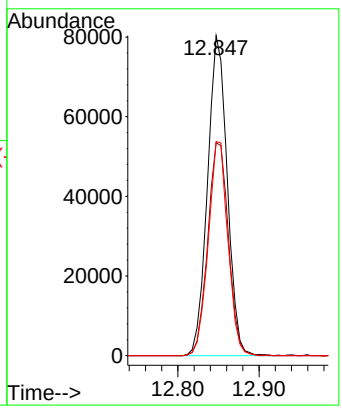


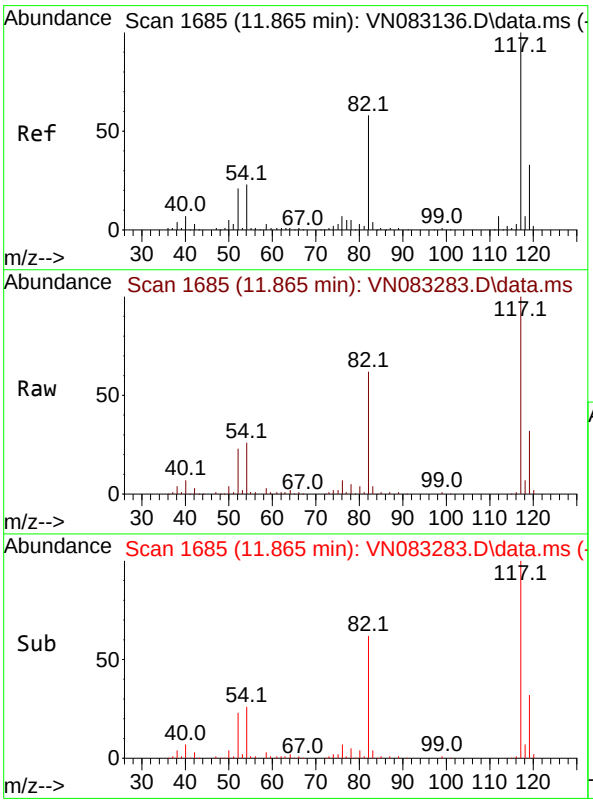
#62
4-Bromofluorobenzene
Concen: 57.857 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

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

Tgt Ion: 95 Resp: 135397

Ion	Ratio	Lower	Upper
95	100		
174	69.9	0.0	159.2
176	66.6	0.0	147.6

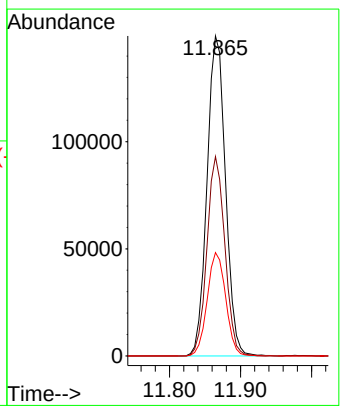


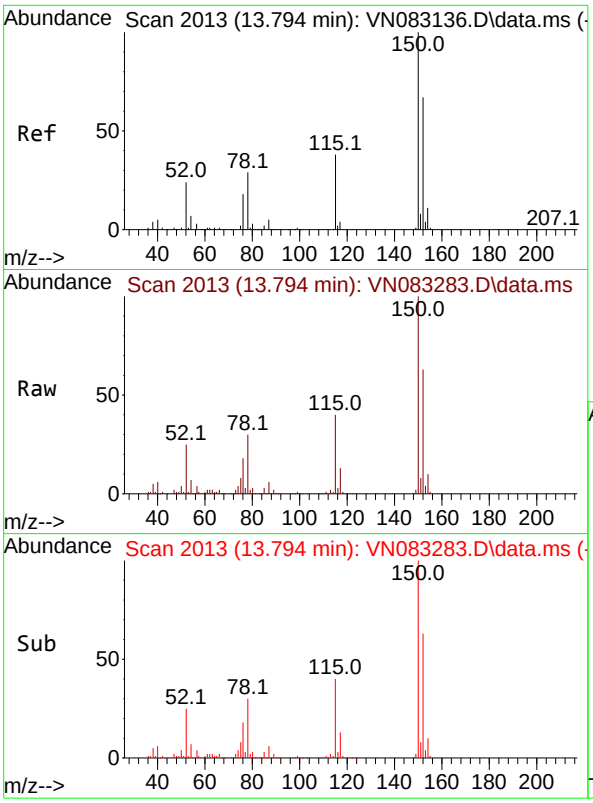


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

Tgt Ion:117 Resp: 269897

Ion	Ratio	Lower	Upper
117	100		
82	62.3	47.5	71.3
119	32.3	25.6	38.4



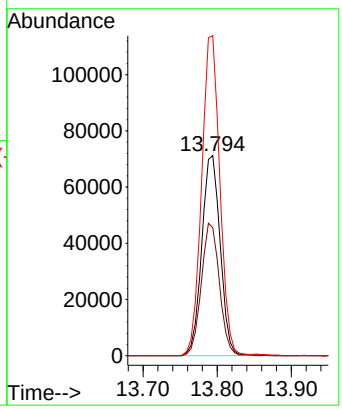


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

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

Tgt Ion:152 Resp: 123166

Ion	Ratio	Lower	Upper
152	100		
115	64.9	30.6	91.6
150	157.7	0.0	348.6



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

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

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

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

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.8		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.3		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.8		70 (77) - 130 (121)	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	139000	8.224			
540-36-3	1,4-Difluorobenzene	272000	9.1			
3114-55-4	Chlorobenzene-d5	277000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.794			

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

Quantitation Report (QT Reviewed)

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

Instrument :
MSVOA_N
ClientSampleId :
TB-03-080124

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	138901	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	271745	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	276868	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	120328	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	112204	56.752	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.500%			
35) Dibromofluoromethane	8.165	113	88634	52.255	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.520%			
50) Toluene-d8	10.565	98	337136	53.284	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.560%			
62) 4-Bromofluorobenzene	12.847	95	137725	55.834	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 111.660%			

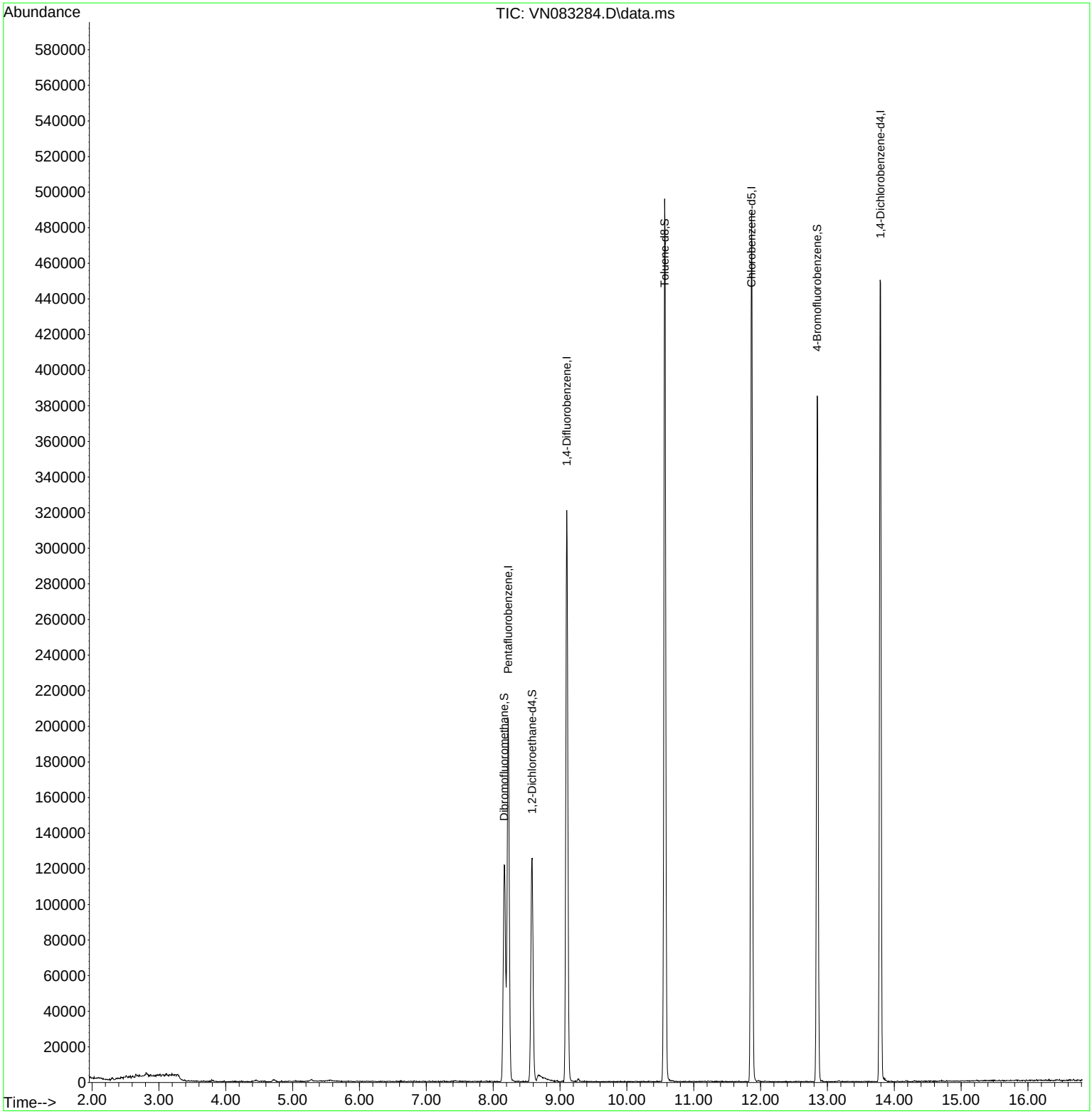
Target Compounds Qvalue

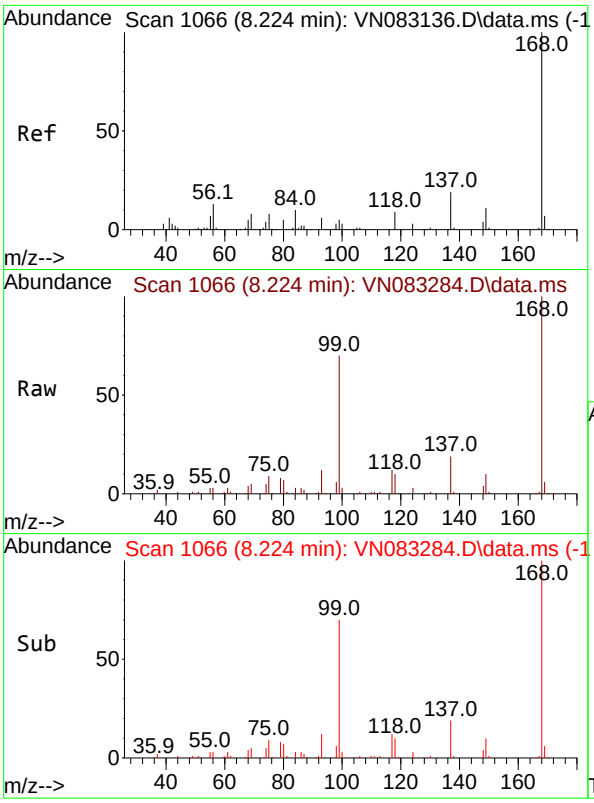
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
MSVOA_N
ClientSampleId :
TB-03-080124

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



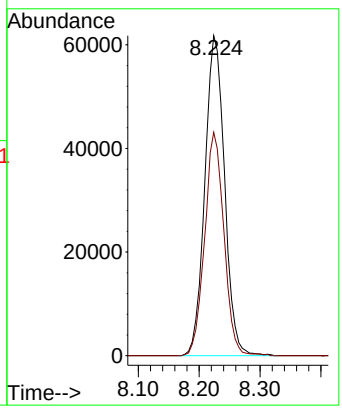


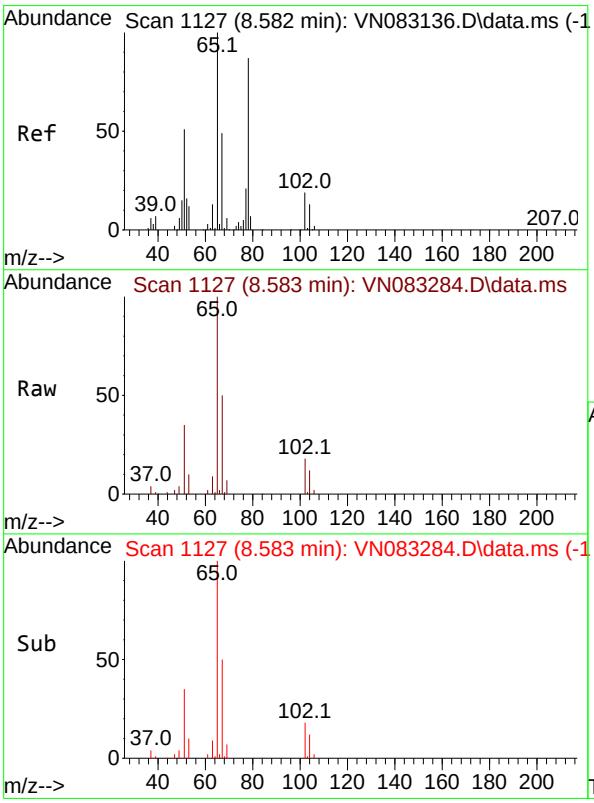
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

Instrument :
MSVOA_N
ClientSampleId :
TB-03-080124

Tgt Ion:168 Resp: 138901

Ion	Ratio	Lower	Upper
168	100		
99	69.8	48.2	72.4

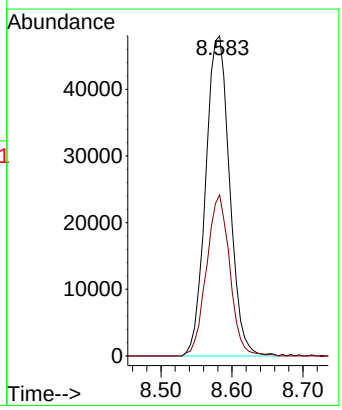


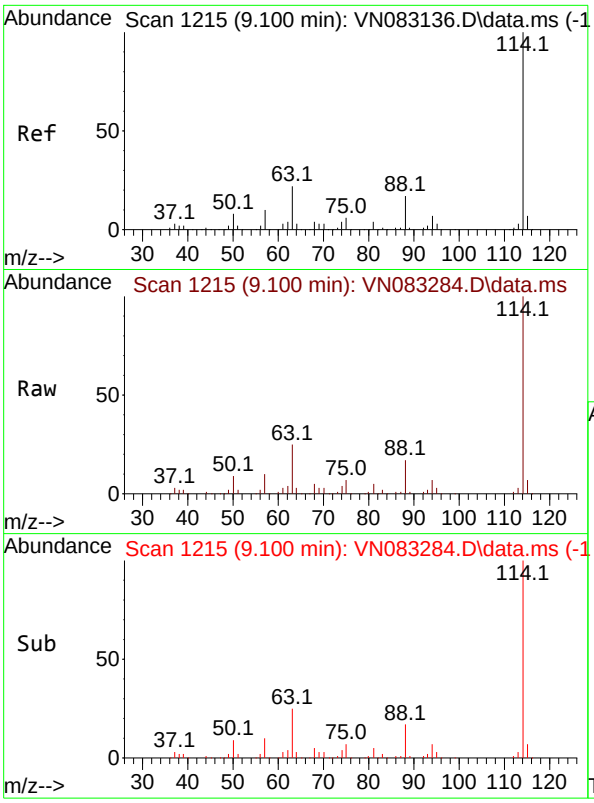


#33
1,2-Dichloroethane-d4
Concen: 56.752 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

Tgt Ion: 65 Resp: 112204

Ion	Ratio	Lower	Upper
65	100		
67	48.9	0.0	104.4



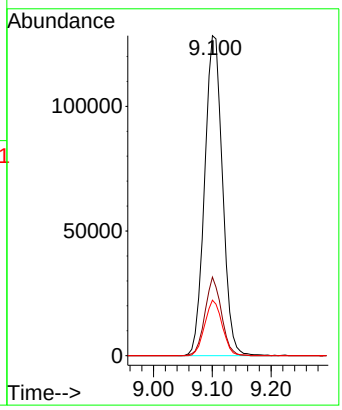


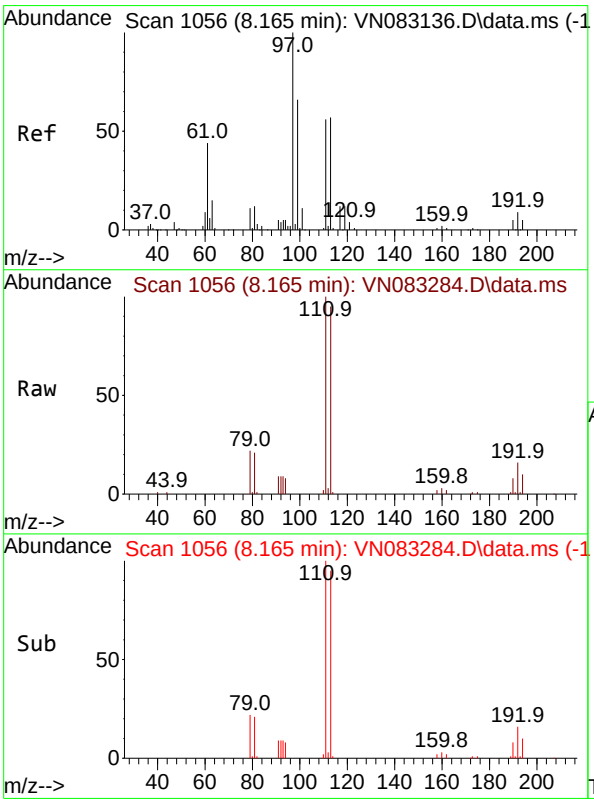
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

Instrument :
MSVOA_N
ClientSampleId :
TB-03-080124

Tgt Ion:114 Resp: 271745

Ion	Ratio	Lower	Upper
114	100		
63	24.5	0.0	44.6
88	17.3	0.0	31.4

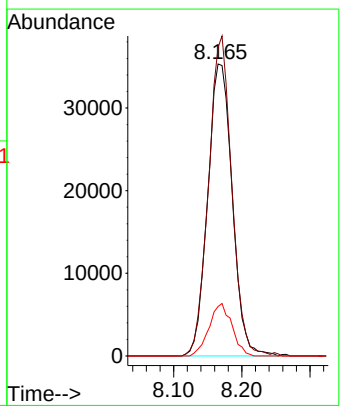


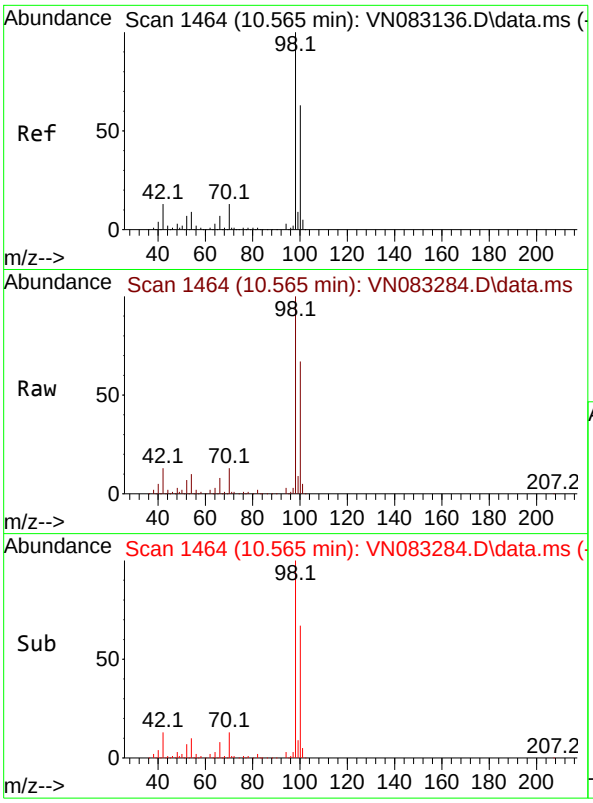


#35
Dibromofluoromethane
Concen: 52.255 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

Tgt Ion:113 Resp: 88634

Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.4	123.6
192	16.7	14.9	22.3



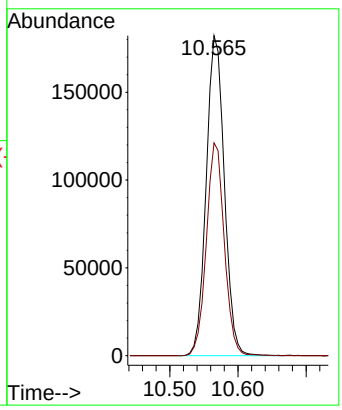


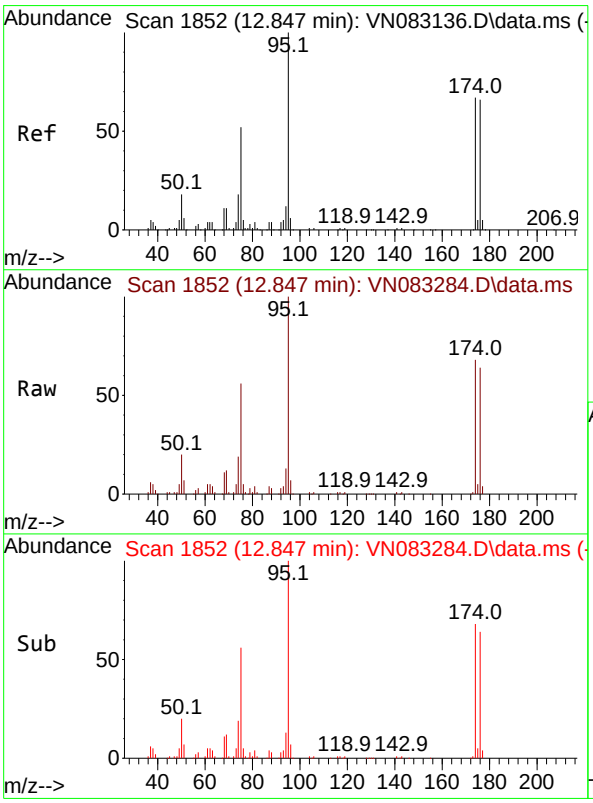
#50
Toluene-d8
Concen: 53.284 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

Instrument :
MSVOA_N
ClientSampleId :
TB-03-080124

Tgt Ion: 98 Resp: 337136

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.5	77.3

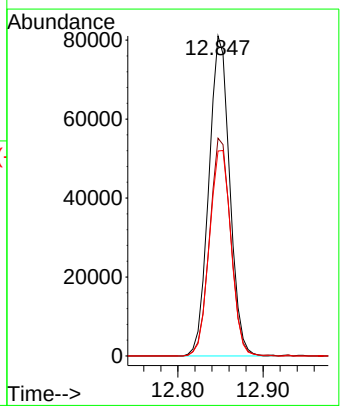


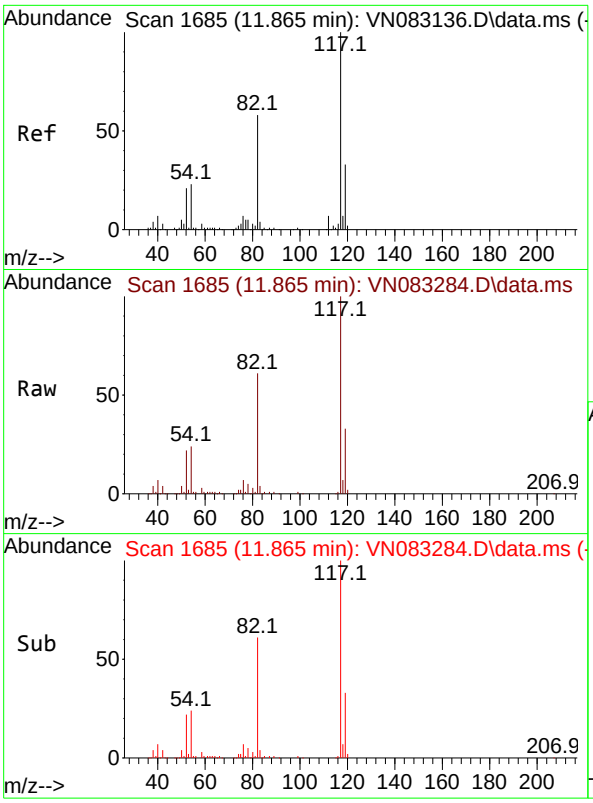


#62
4-Bromofluorobenzene
Concen: 55.834 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

Tgt Ion: 95 Resp: 137725

Ion	Ratio	Lower	Upper
95	100		
174	68.8	0.0	159.2
176	66.7	0.0	147.6



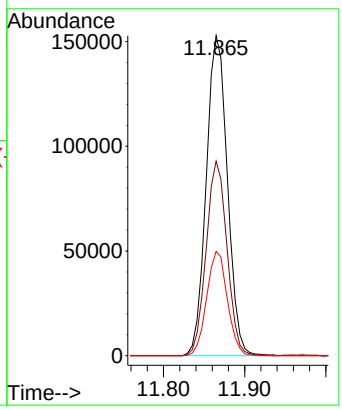


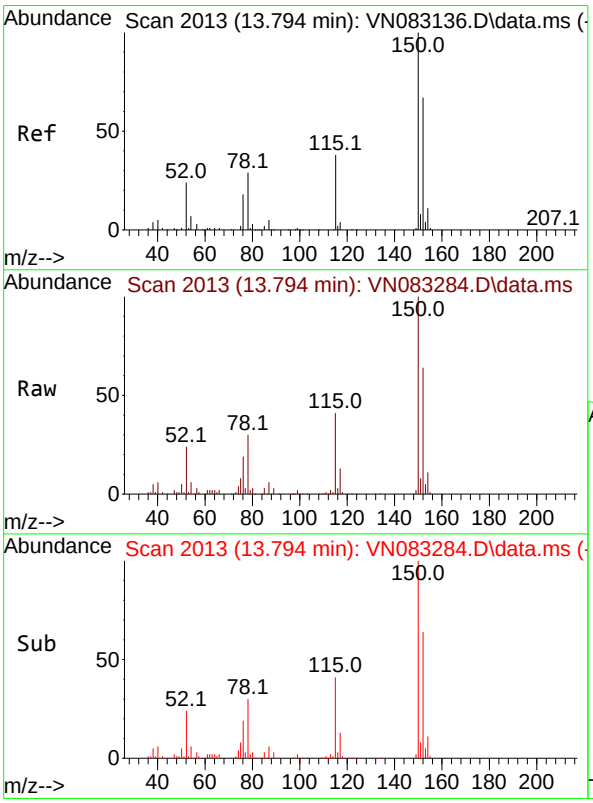
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

Instrument :
MSVOA_N
ClientSampleId :
TB-03-080124

Tgt Ion:117 Resp: 276868

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

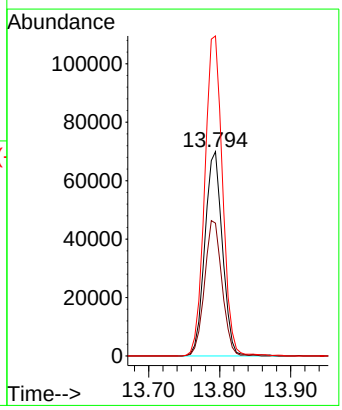




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

Tgt Ion:152 Resp: 120328

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



CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG No.: P3451

Instrument ID: MSVOA_N Calibration Date(s): 08/07/2024 08/07/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:33 12:34

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

LAB FILE ID: RRF100 = VN083135.D RRF050 = VN083136.D RRF020 = VN083137.D
RRF010 = VN083138.D RRF005 = VN083139.D RRF001 = VN083140.D

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

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

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.: P3451 SAS No.: P3451 SDG No.: P3451

Instrument ID: MSVOA_N Calibration Date(s): 08/07/2024 08/07/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:33 12:34

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

LAB FILE ID: RRF100 = VN083135.D RRF050 = VN083136.D RRF020 = VN083137.D
RRF010 = VN083138.D RRF005 = VN083139.D RRF001 = VN083140.D

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

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

Response Factor Report MSVOA_N_NEW

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

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

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

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

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

(#) = Out of Range

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

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

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

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

ICAL Form

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

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

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

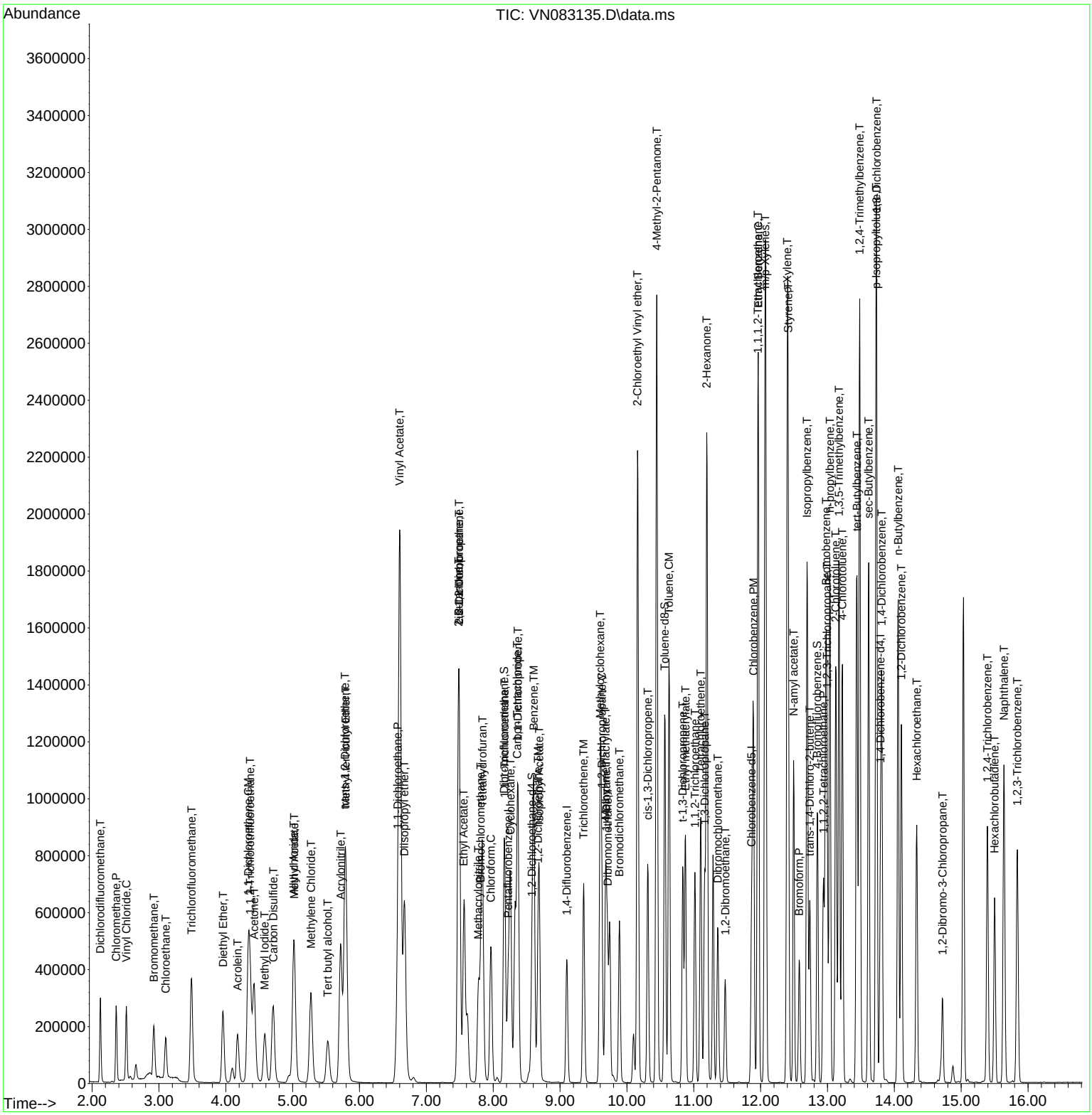
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Acq On : 07 Aug 2024 10:33
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

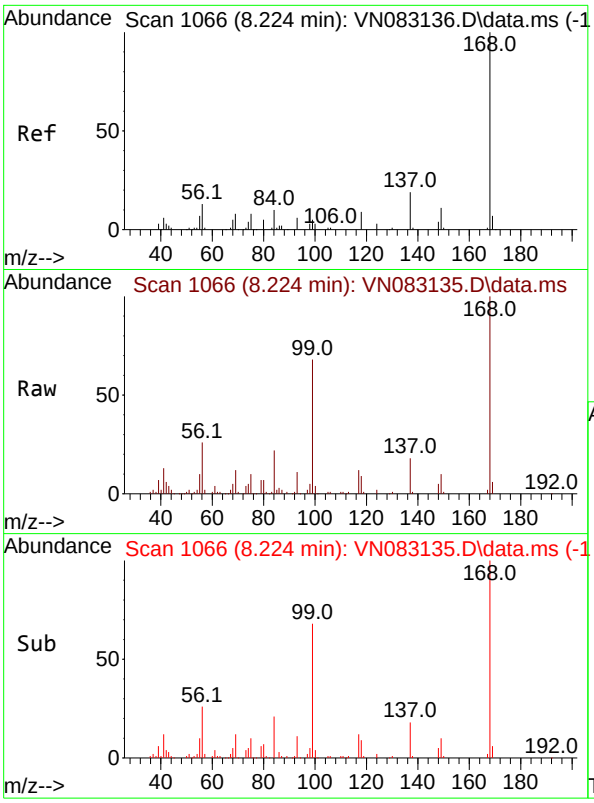
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Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

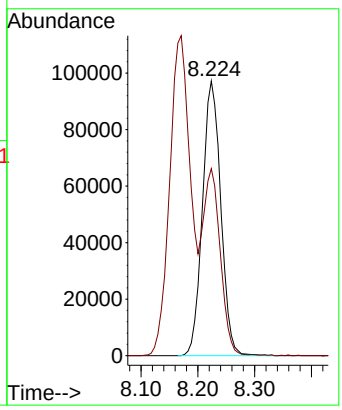




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:168 Resp: 21731

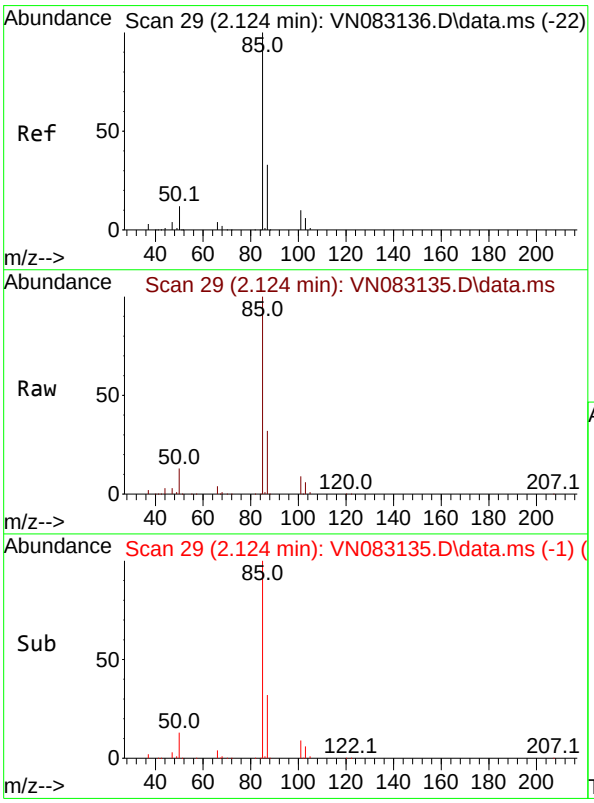
Ion	Ratio	Lower	Upper
168	100		
99	68.1	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

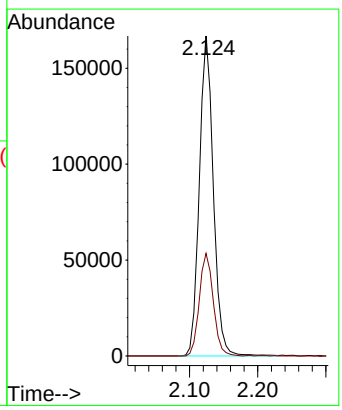
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

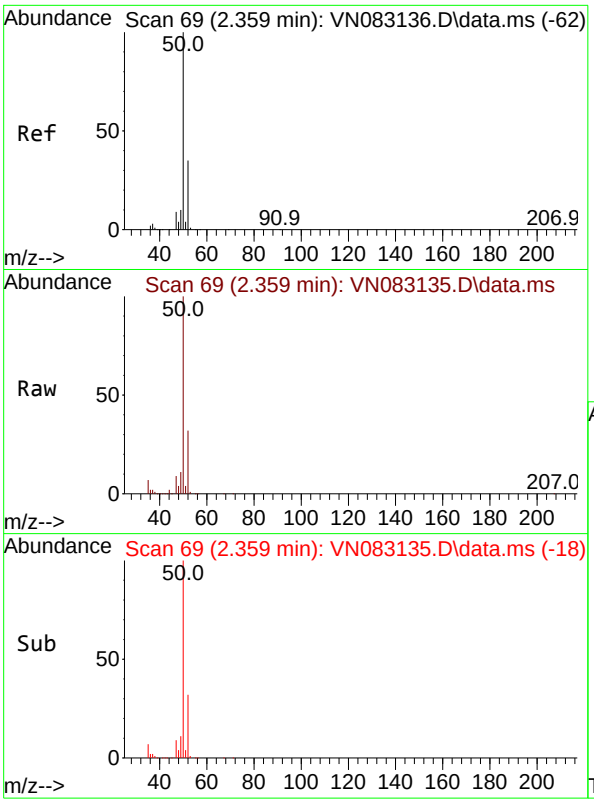


#2
Dichlorodifluoromethane
Concen: 96.624 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 85 Resp: 238119

Ion	Ratio	Lower	Upper
85	100		
87	32.1	15.7	47.0

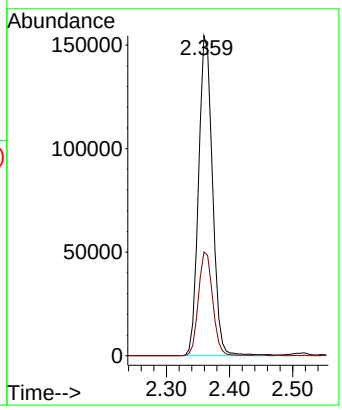




#3
Chloromethane
Concen: 94.185 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 50 Resp: 23763

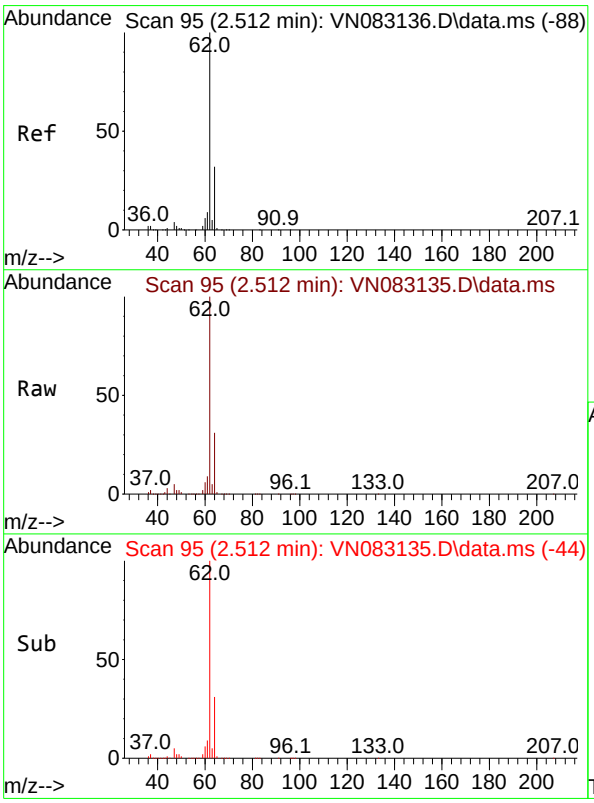
Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

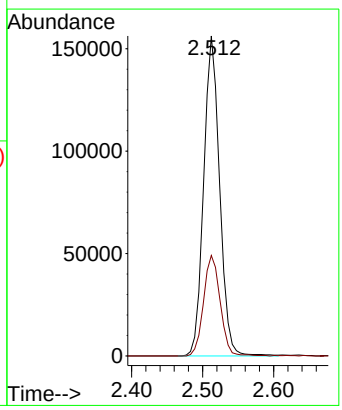
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

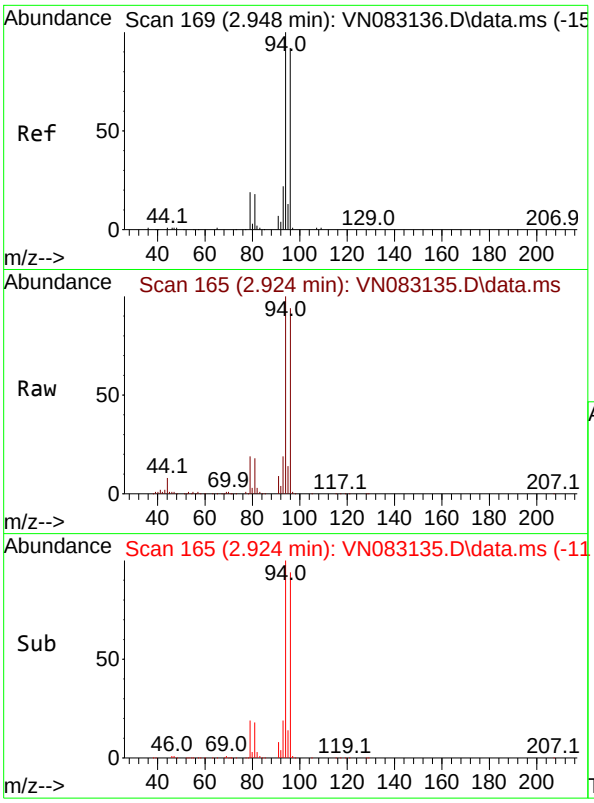


#4
Vinyl Chloride
Concen: 94.904 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 62 Resp: 244329

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.0	37.6

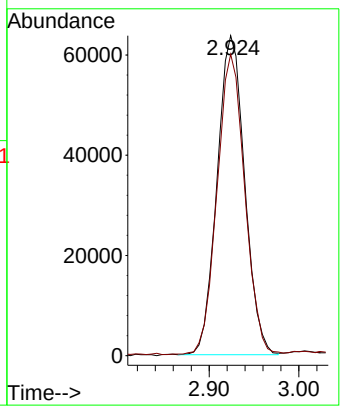




#5
Bromomethane
Concen: 85.085 ug/l
RT: 2.924 min Scan# 1
Delta R.T. -0.024 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 94 Resp: 13592

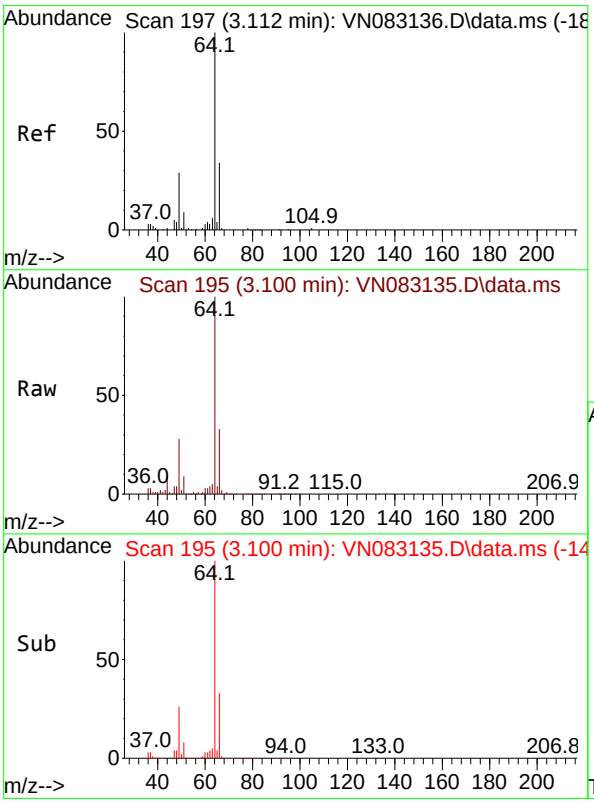
Ion	Ratio	Lower	Upper
94	100		
96	94.0	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

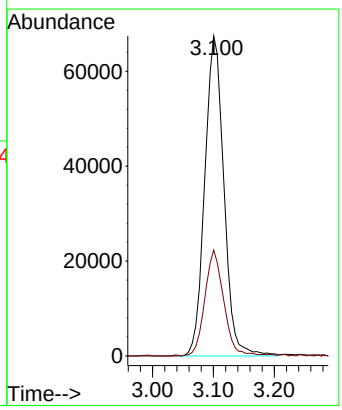
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

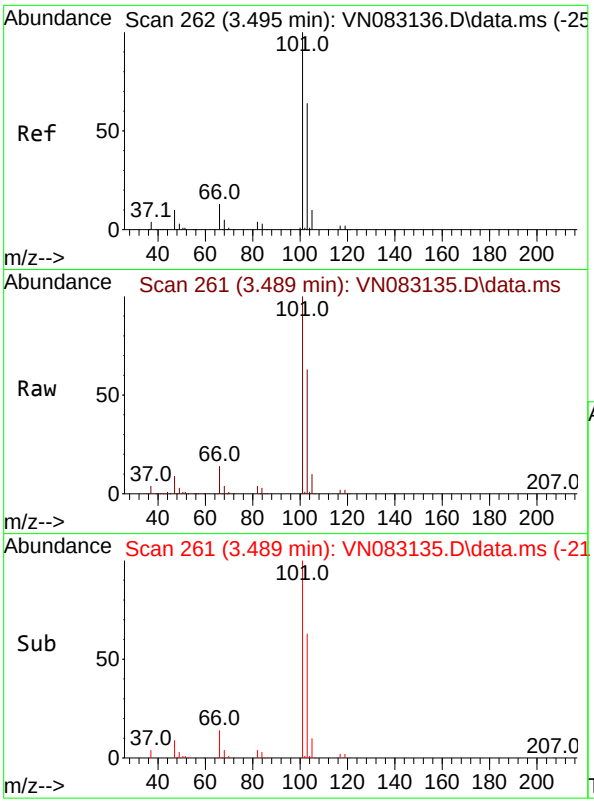


#6
Chloroethane
Concen: 91.645 ug/l
RT: 3.100 min Scan# 195
Delta R.T. -0.012 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 64 Resp: 147611

Ion	Ratio	Lower	Upper
64	100		
66	32.9	26.6	40.0





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

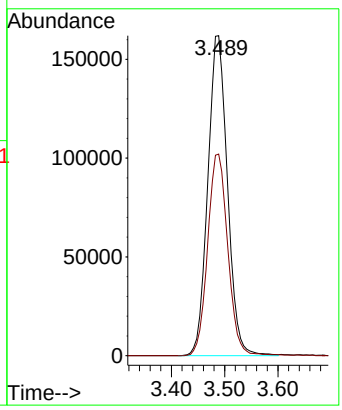
Tgt Ion:101 Resp: 41491

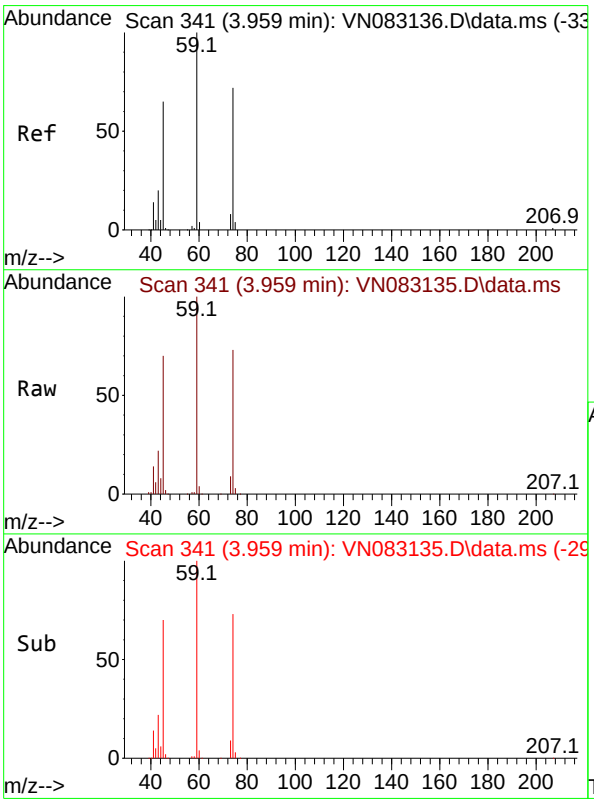
Ion	Ratio	Lower	Upper
101	100		
103	63.0	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

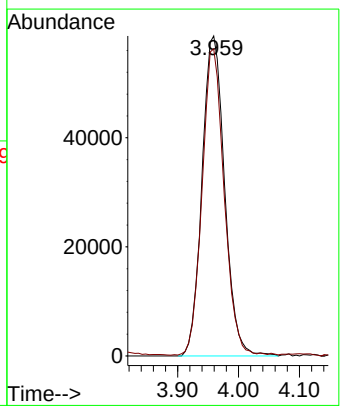


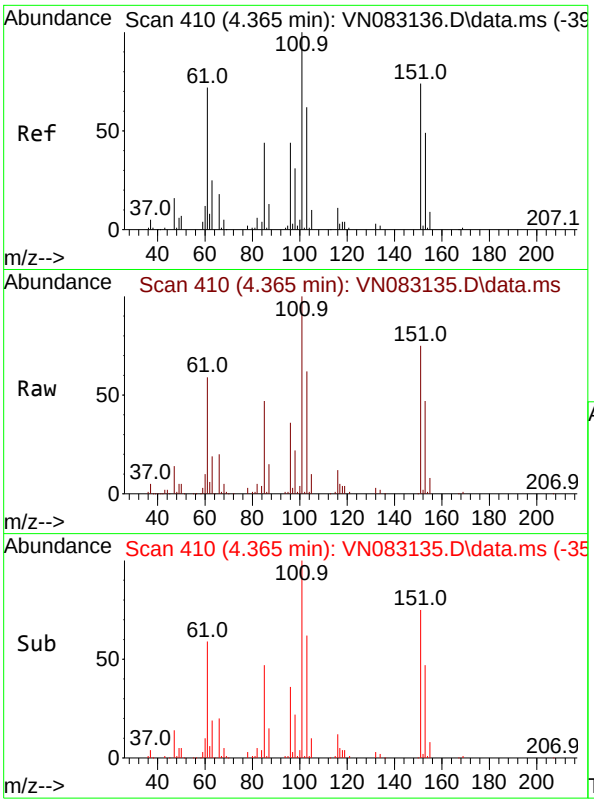


#8
Diethyl Ether
Concen: 95.597 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 74 Resp: 151291

Ion	Ratio	Lower	Upper
74	100		
45	93.4	55.5	166.3

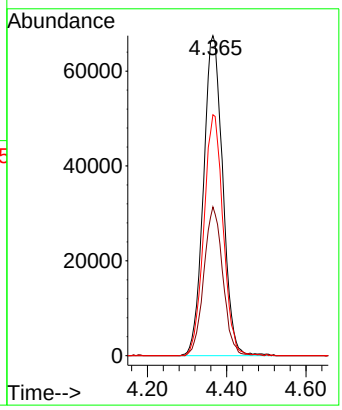




#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.044 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:101 Resp: 22755

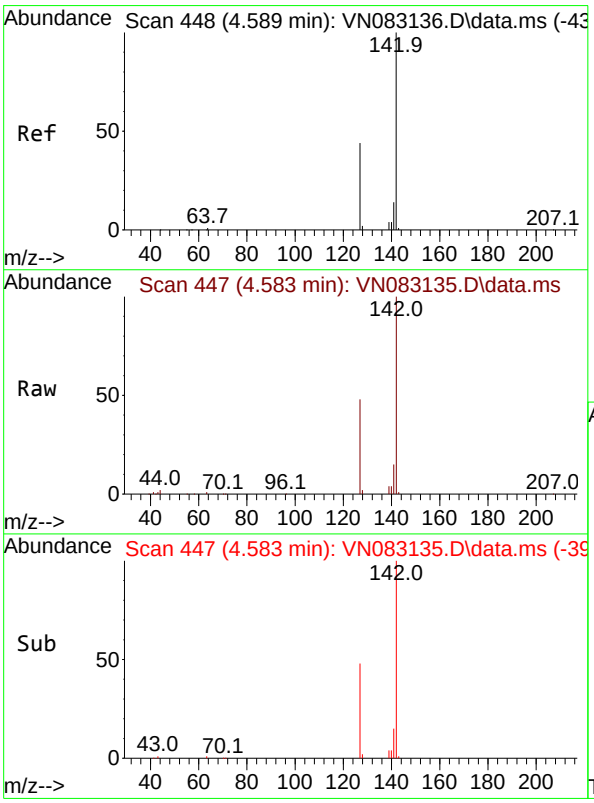
Ion	Ratio	Lower	Upper
101	100		
85	45.6	38.3	57.5
151	75.2	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

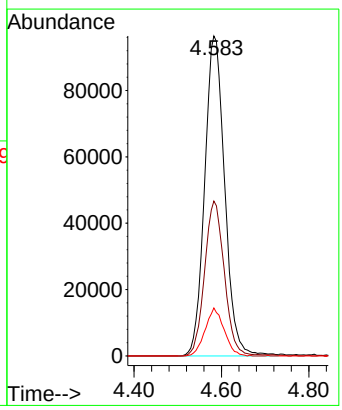
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

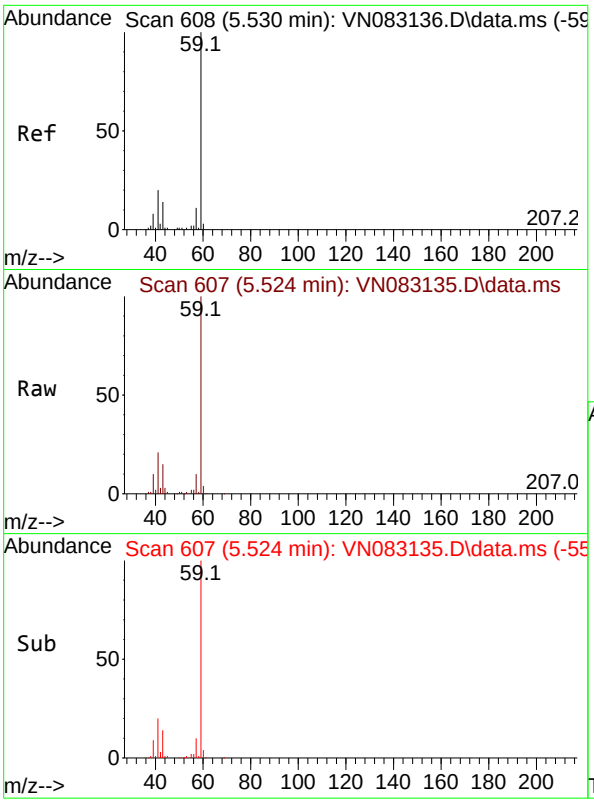


#10
Methyl Iodide
Concen: 99.686 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:142 Resp: 307476

Ion	Ratio	Lower	Upper
142	100		
127	48.4	37.5	56.3
141	15.0	13.1	19.7

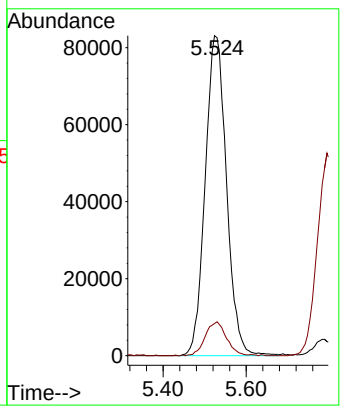




#11
Tert butyl alcohol
Concen: 461.112 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 59 Resp: 29642

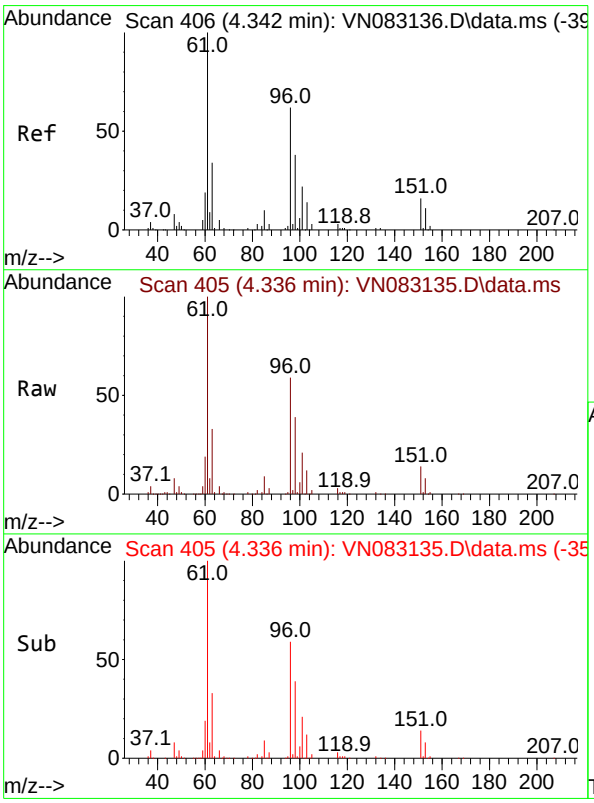
Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

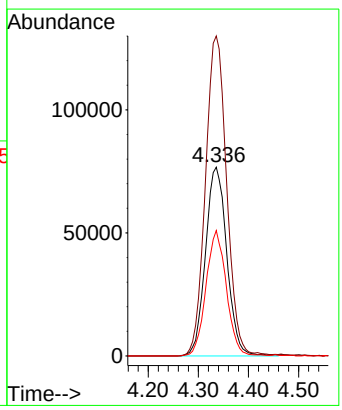
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

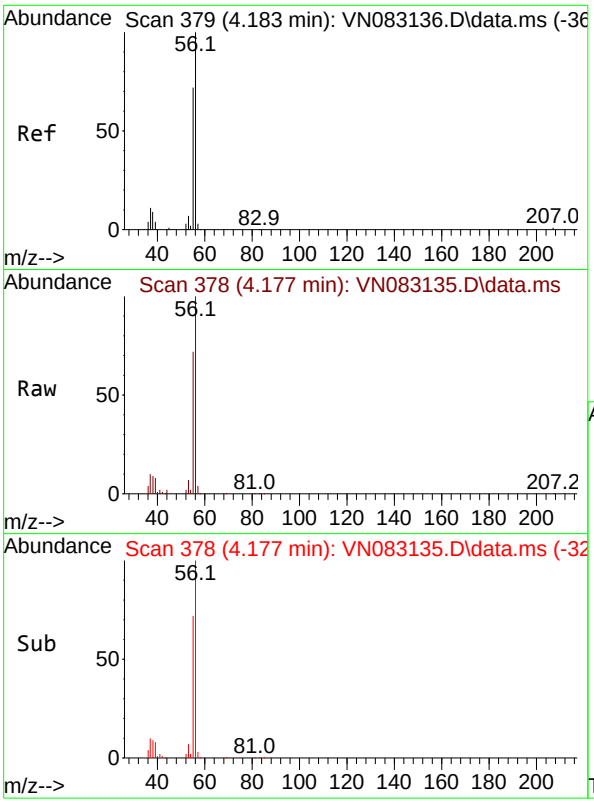


#12
1,1-Dichloroethene
Concen: 94.453 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 96 Resp: 227537

Ion	Ratio	Lower	Upper
96	100		
61	169.4	149.7	224.5
98	66.5	50.1	75.1

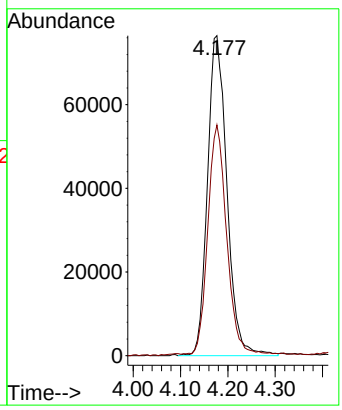




#13
Acrolein
Concen: 520.640 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 56 Resp: 21813

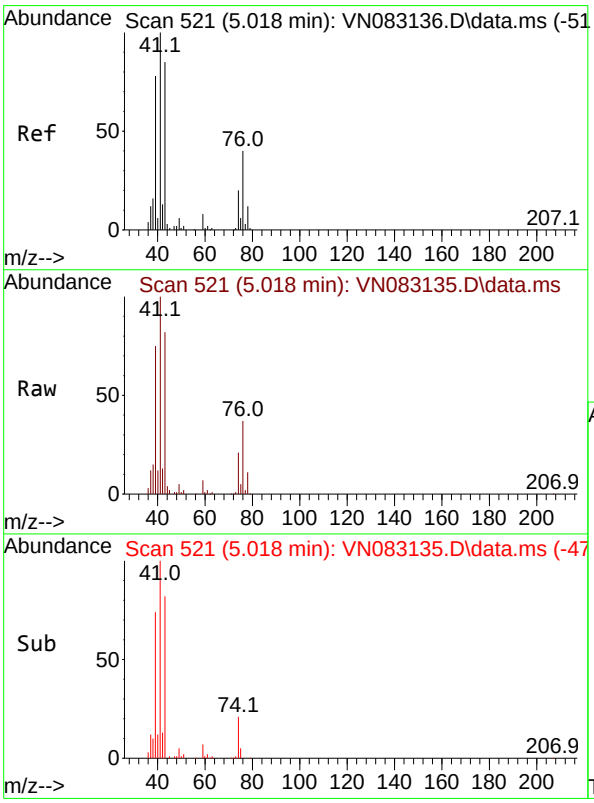
Ion	Ratio	Lower	Upper
56	100		
55	68.5	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

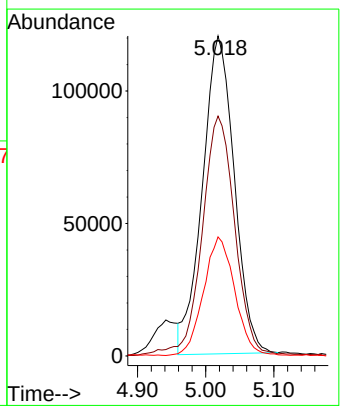
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

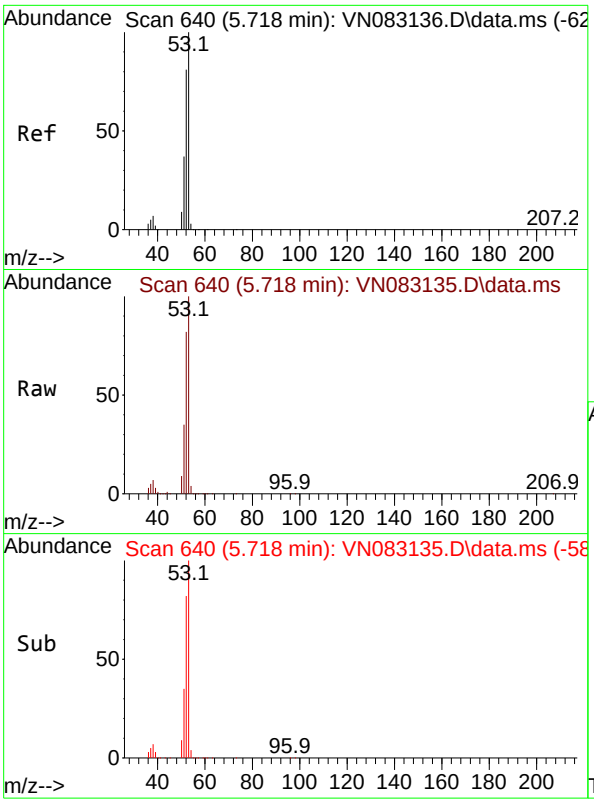


#14
Allyl chloride
Concen: 85.577 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 41 Resp: 389580

Ion	Ratio	Lower	Upper
41	100		
39	78.4	67.8	101.6
76	36.6	25.8	38.8

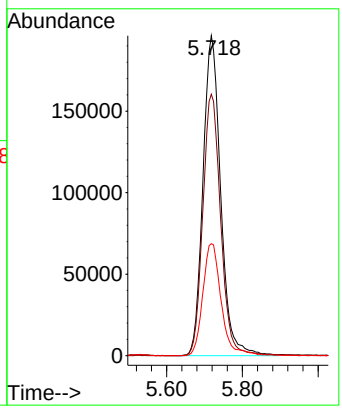




#15
Acrylonitrile
Concen: 481.734 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 53 Resp: 63689

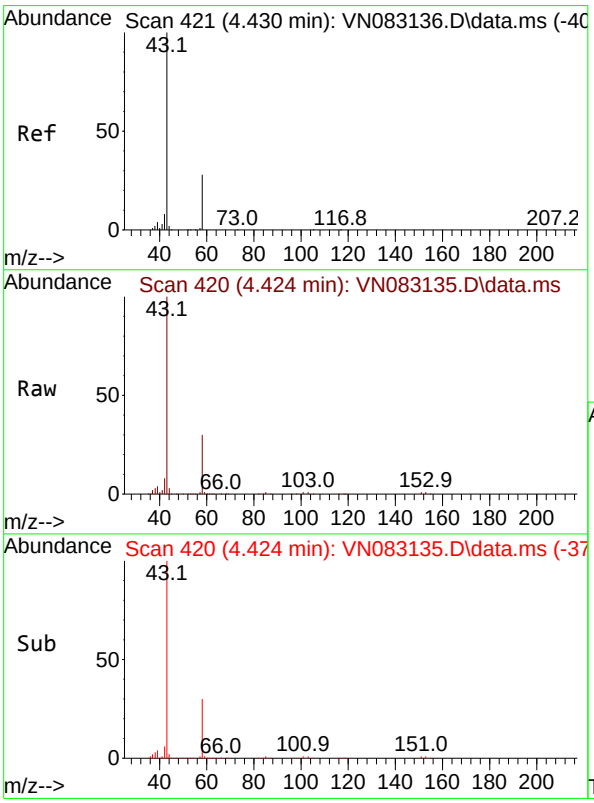
Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.6	100.0
51	36.4	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

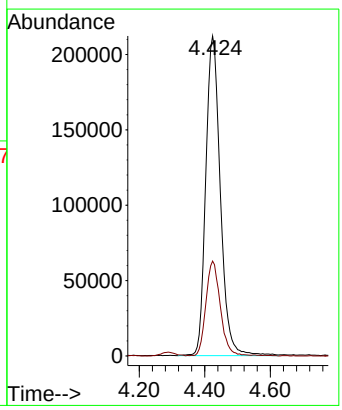
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

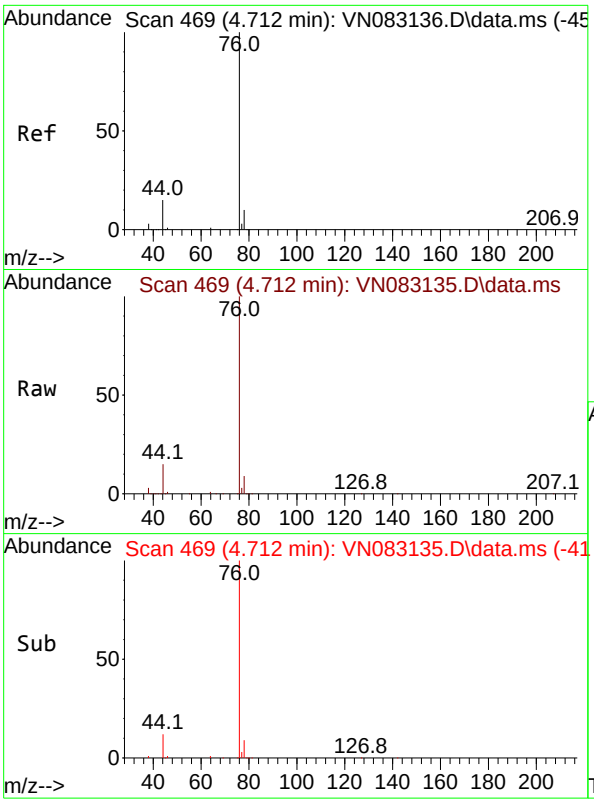


#16
Acetone
Concen: 542.264 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 656348

Ion	Ratio	Lower	Upper
43	100		
58	29.7	21.8	32.6





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

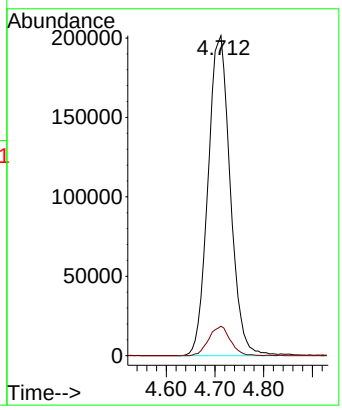
Tgt Ion: 76 Resp: 63725

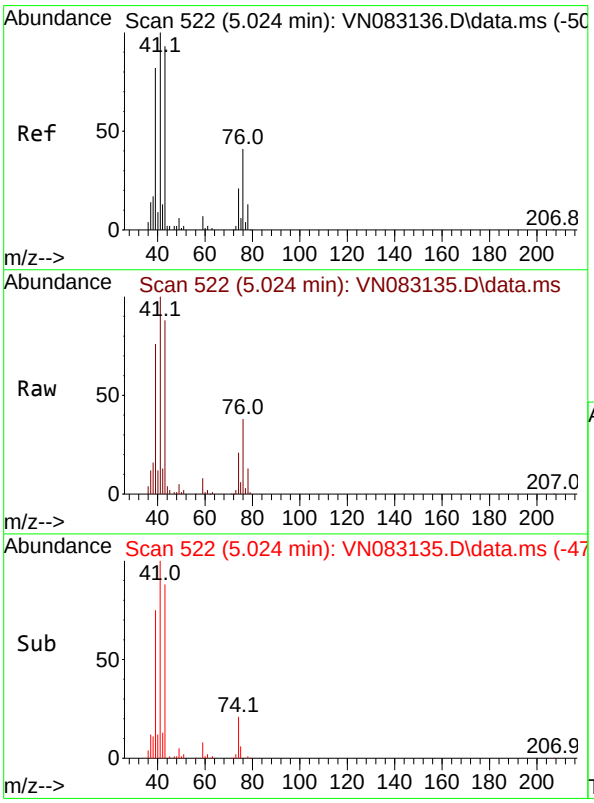
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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

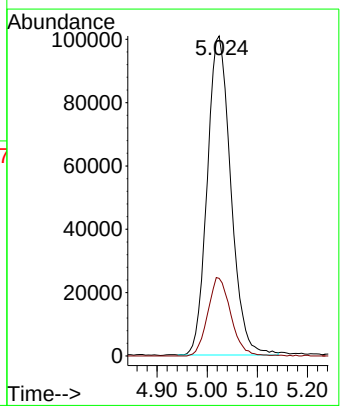


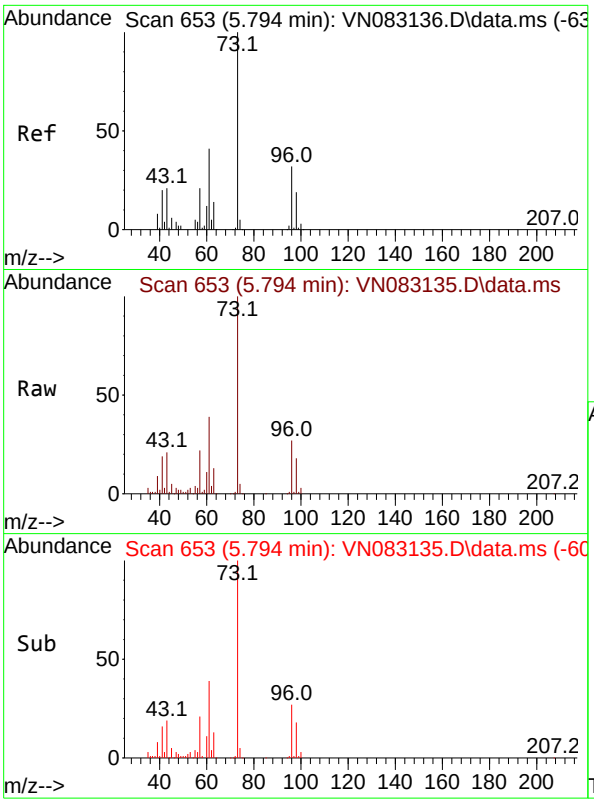


#18
Methyl Acetate
Concen: 91.357 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 329457

Ion	Ratio	Lower	Upper
43	100		
74	24.0	16.3	24.5

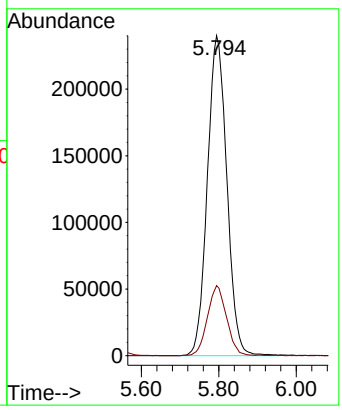




#19
Methyl tert-butyl Ether
Concen: 96.324 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 73 Resp: 83756

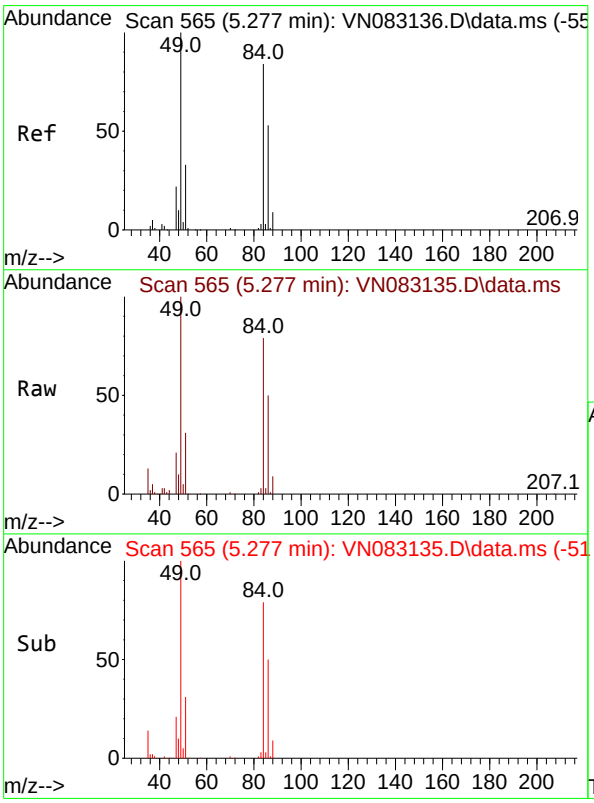
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

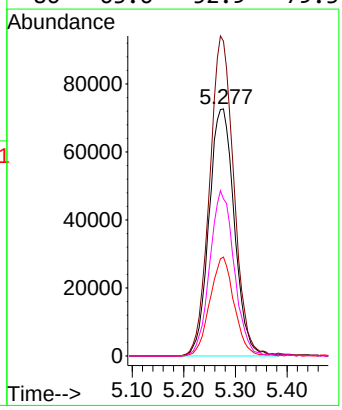
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

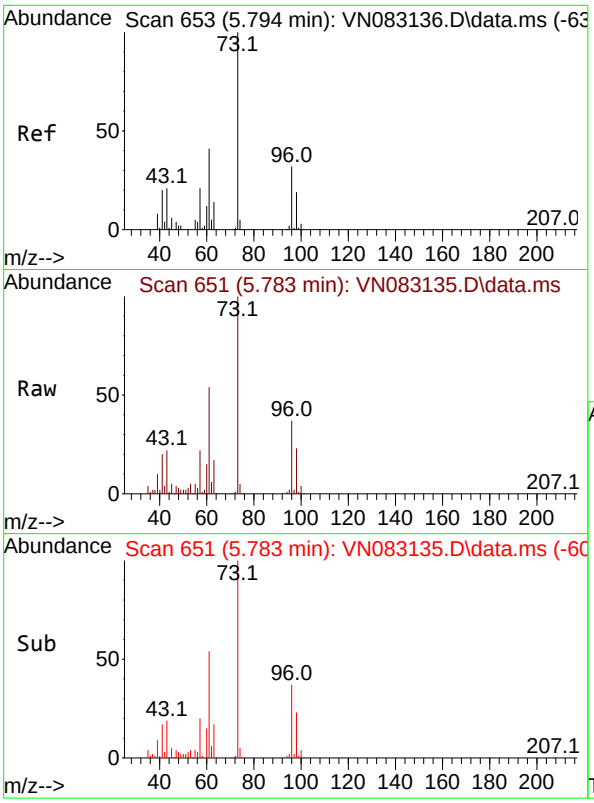


#20
Methylene Chloride
Concen: 88.771 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 84 Resp: 247283

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

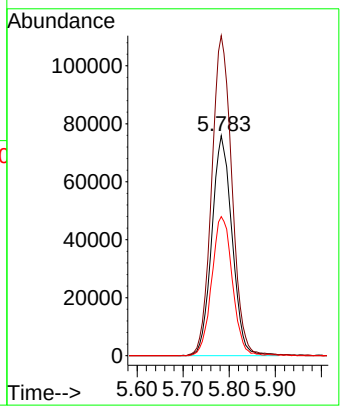




#21
trans-1,2-Dichloroethene
Concen: 92.991 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 96 Resp: 23153

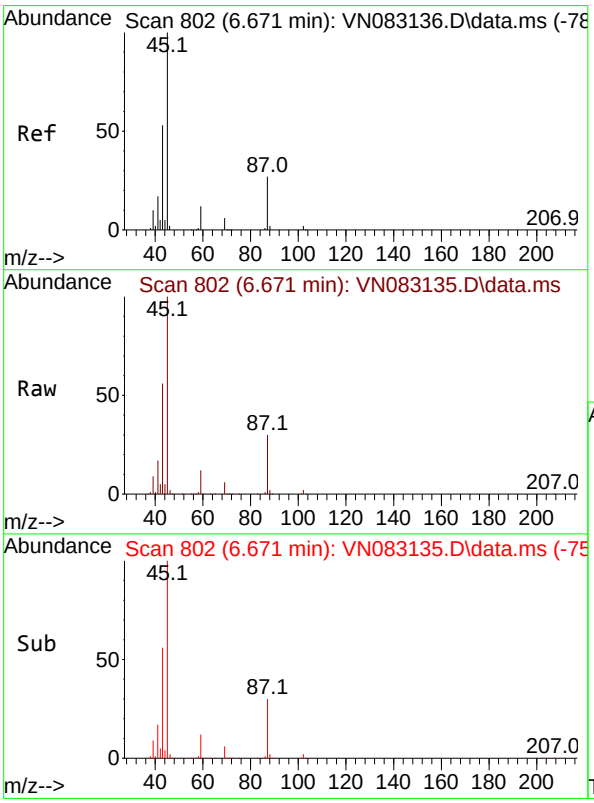
Ion	Ratio	Lower	Upper
96	100		
61	145.4	123.4	185.2
98	63.2	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

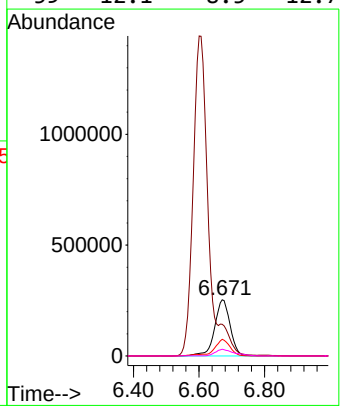
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

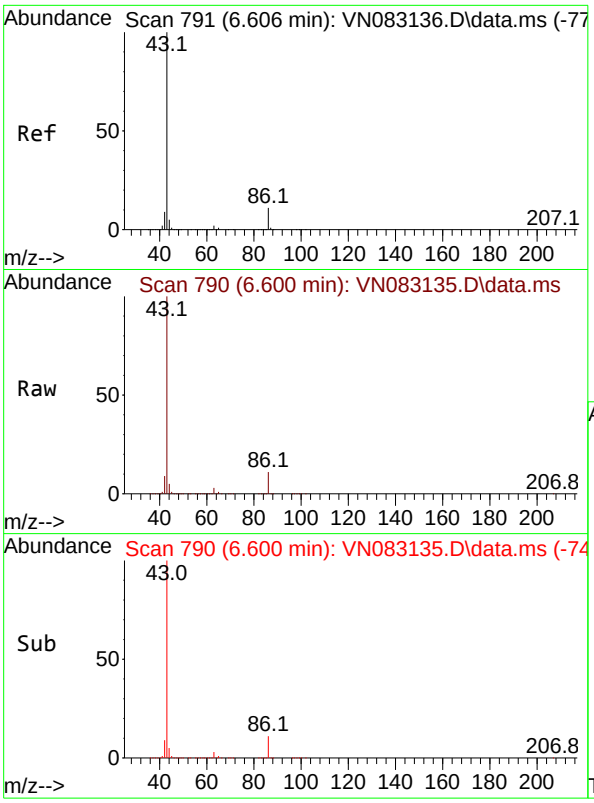


#22
Diisopropyl ether
Concen: 96.959 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 45 Resp: 829706

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

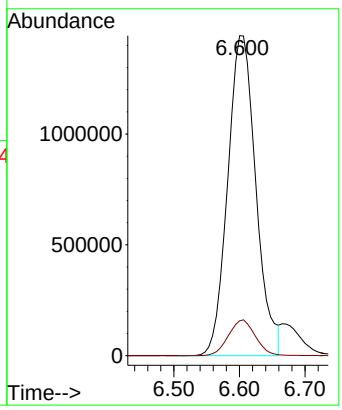




#23
Vinyl Acetate
Concen: 493.177 ug/l
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 432491

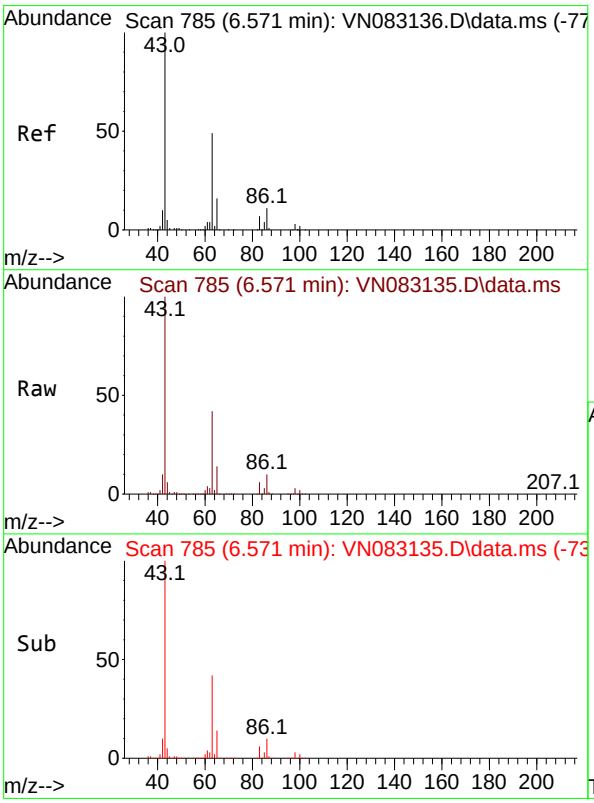
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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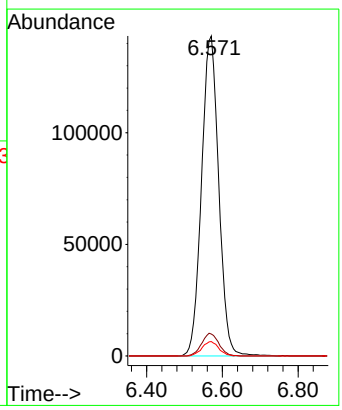
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

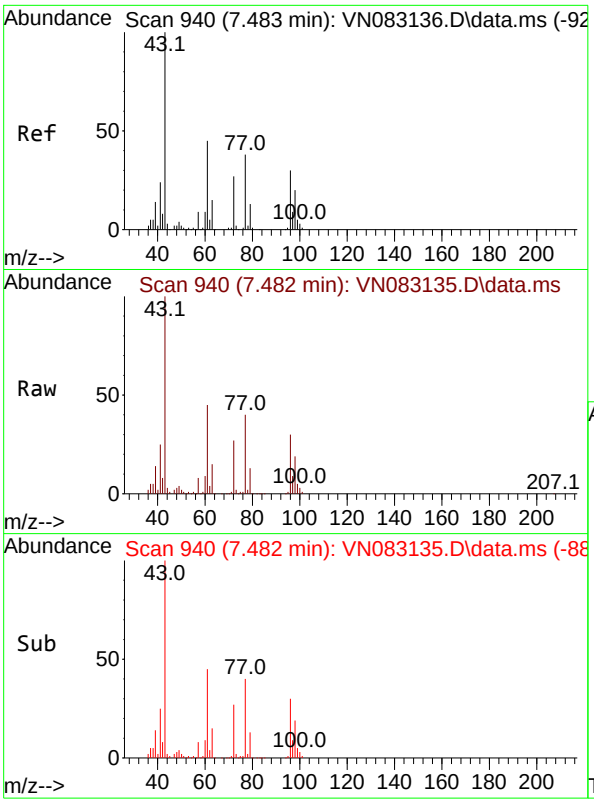


#24
1,1-Dichloroethane
Concen: 96.746 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 63 Resp: 451253

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.3	9.9
100	4.5	2.0	6.0





#25
2-Butanone
Concen: 489.098 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

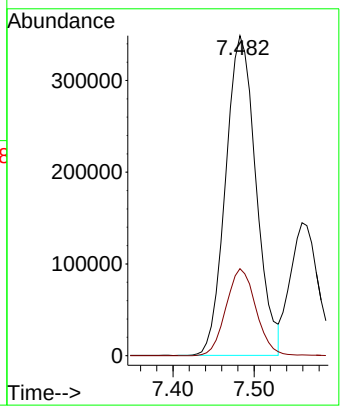
Tgt Ion: 43 Resp: 90899

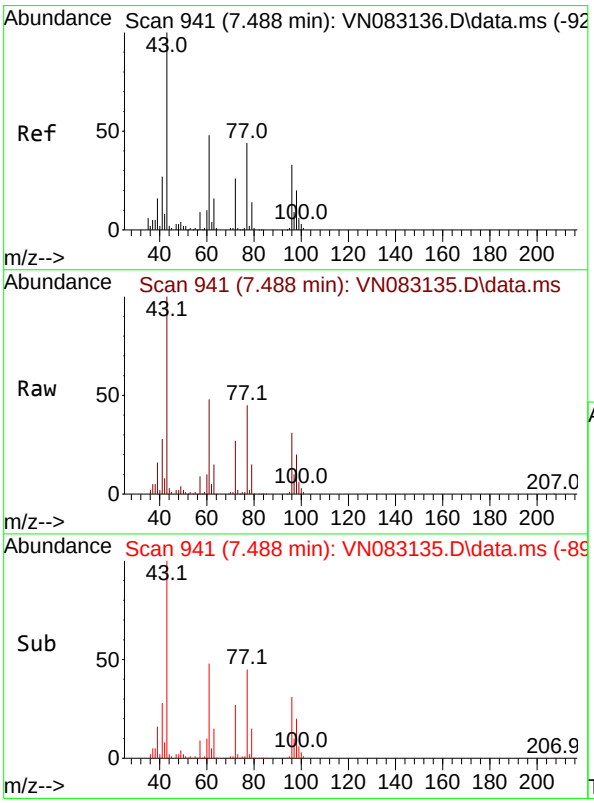
Ion	Ratio	Lower	Upper
43	100		
72	27.2	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

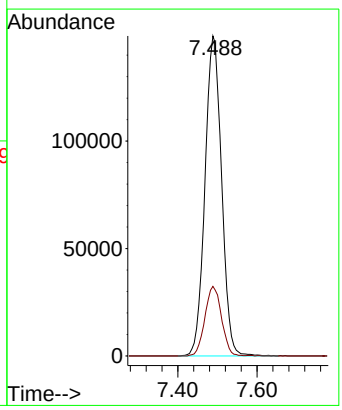


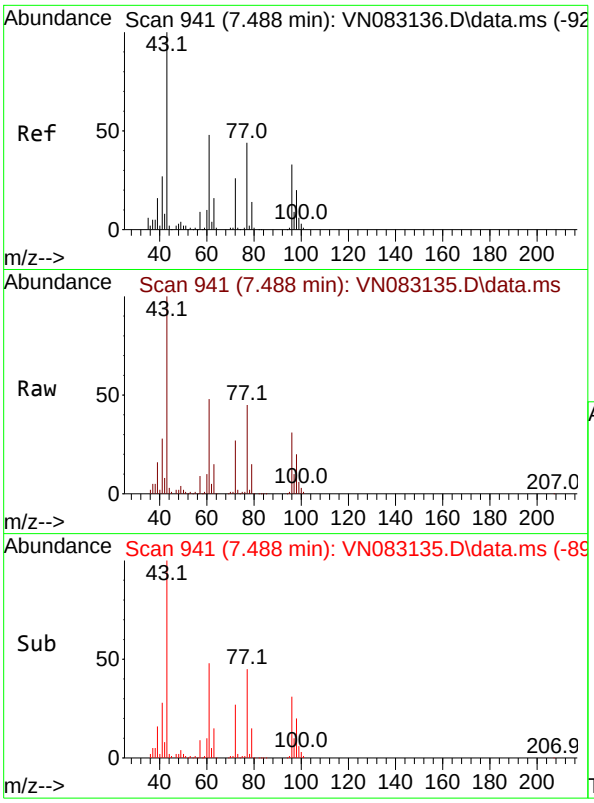


#26
2,2-Dichloropropane
Concen: 100.075 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 77 Resp: 433489

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.3	30.9





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

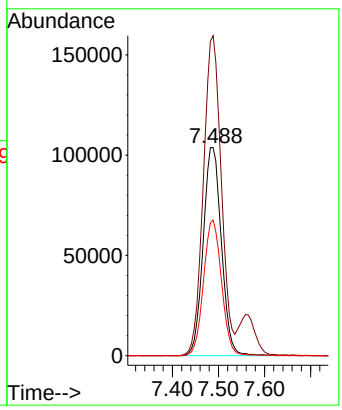
Tgt Ion: 96 Resp: 28610

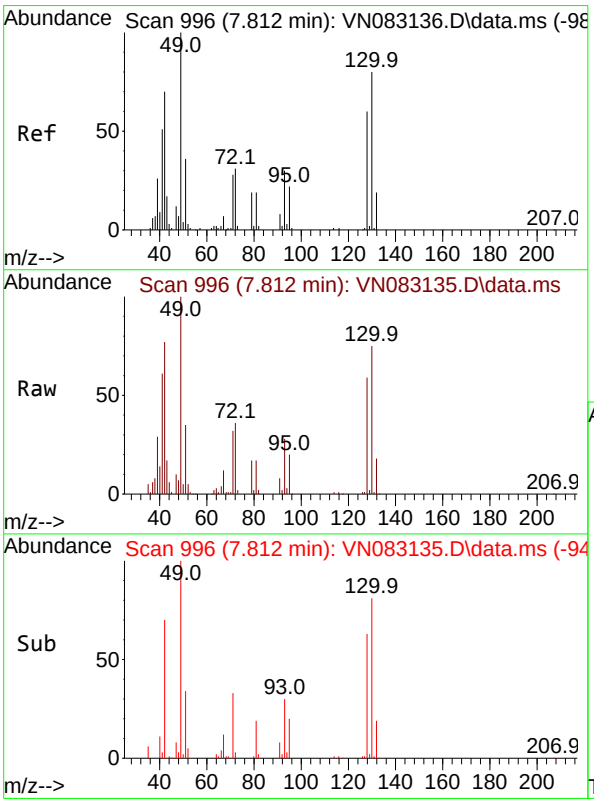
Ion	Ratio	Lower	Upper
96	100		
61	151.6	0.0	329.6
98	64.3	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

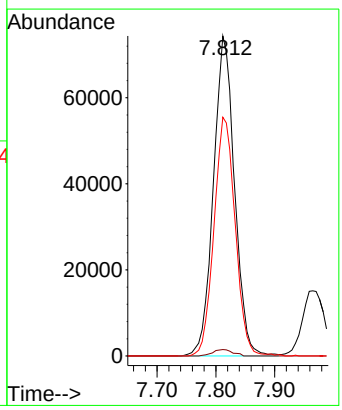


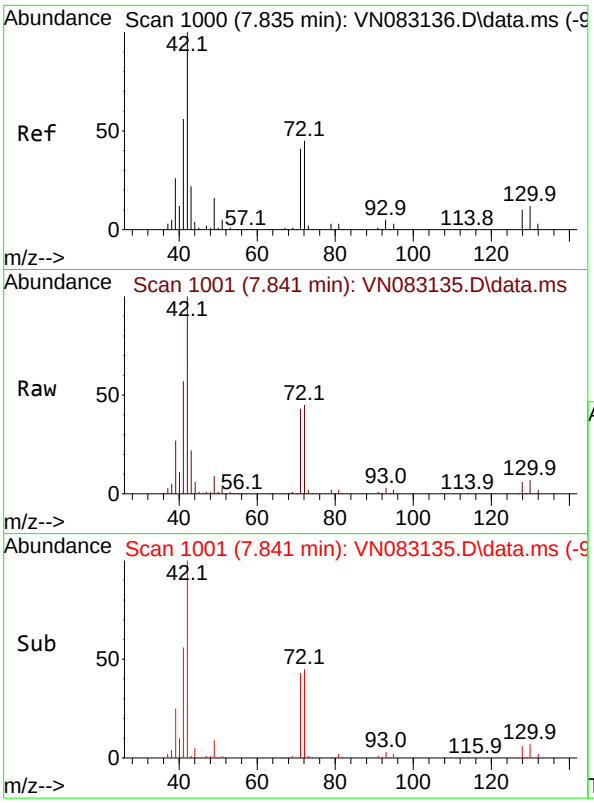


#28
Bromochloromethane
Concen: 97.333 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 49 Resp: 185533

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	74.9	50.5	75.7

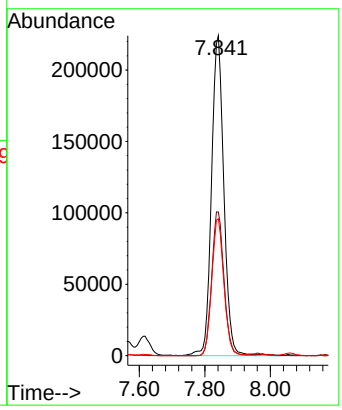




#29
Tetrahydrofuran
Concen: 488.865 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 42 Resp: 58732

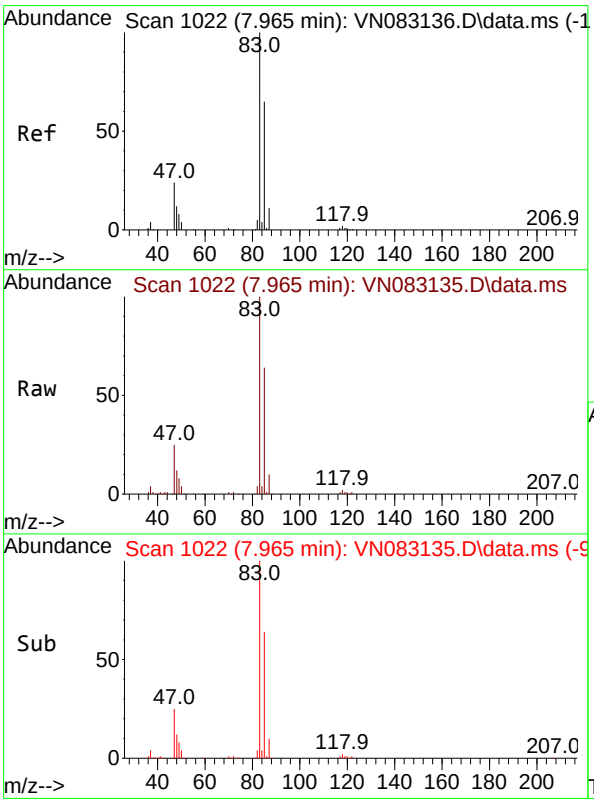
Ion	Ratio	Lower	Upper
42	100		
72	44.6	30.0	45.0
71	41.9	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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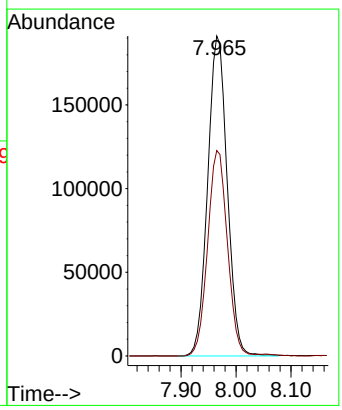
Reviewed By :John Carlone 08/08/2024
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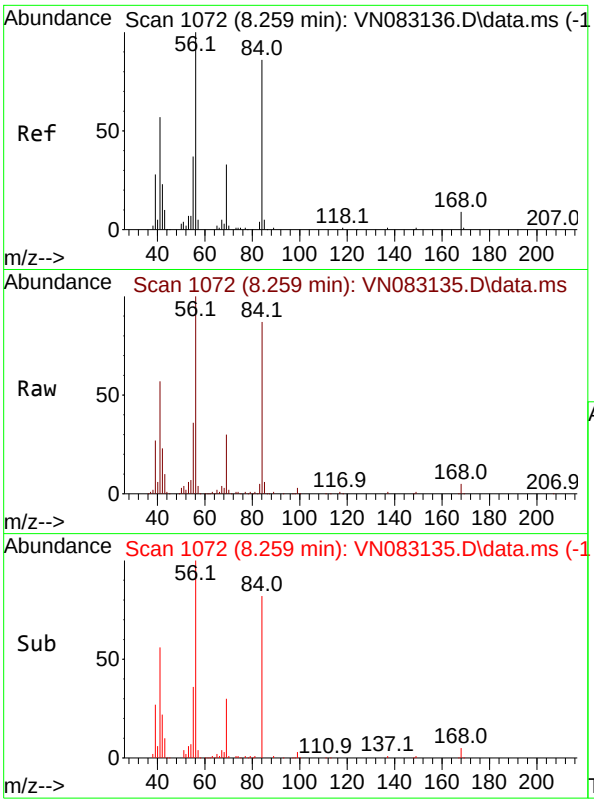


#30
Chloroform
Concen: 97.456 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 83 Resp: 472257

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.9	76.3

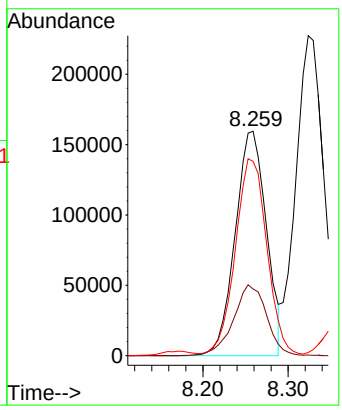




#31
Cyclohexane
Concen: 88.496 ug/l
RT: 8.259 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 56 Resp: 40566

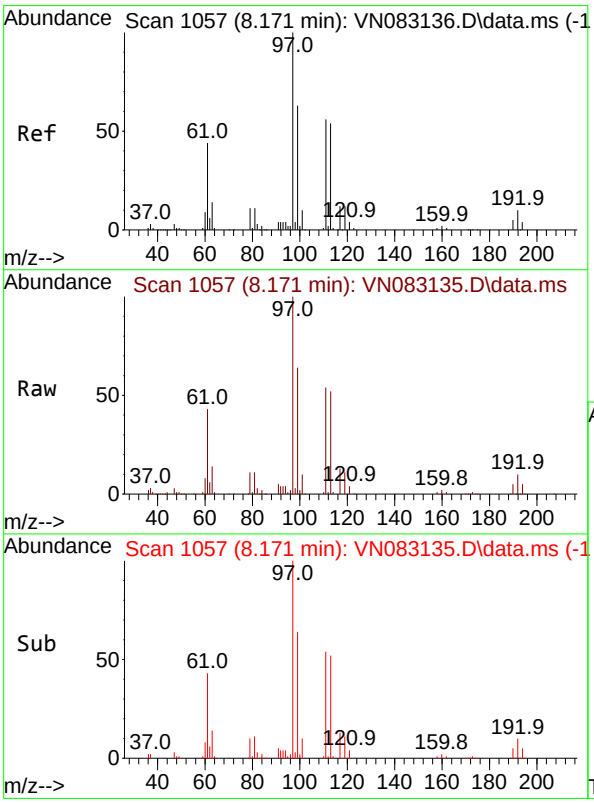
Ion	Ratio	Lower	Upper
56	100		
69	29.7	24.5	36.7
84	84.5	66.0	99.0



Instrument :
MSVOA_N
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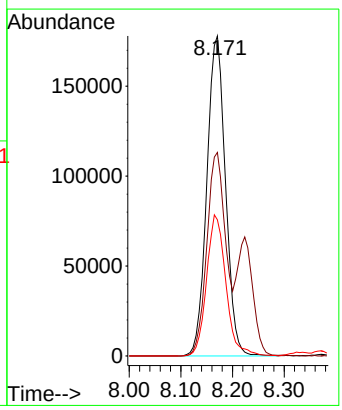
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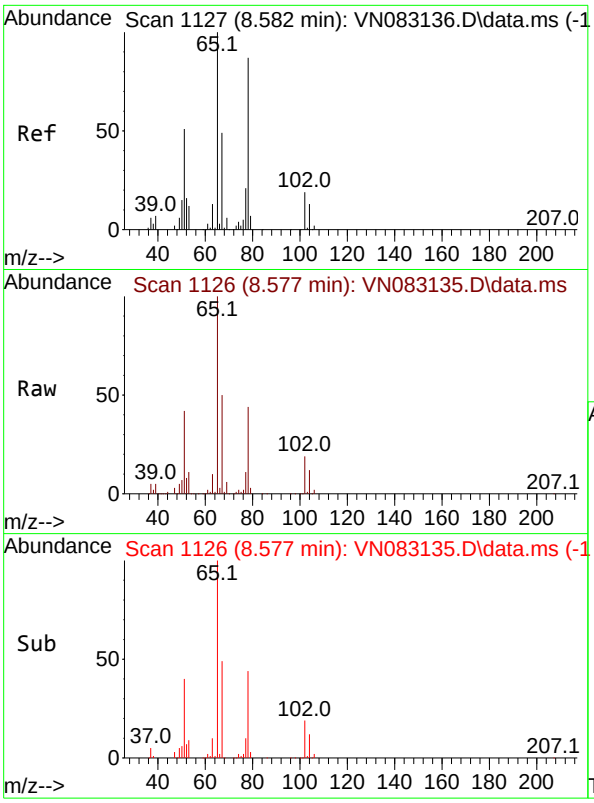


#32
1,1,1-Trichloroethane
Concen: 97.332 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 97 Resp: 446446

Ion	Ratio	Lower	Upper
97	100		
99	64.7	52.0	78.0
61	45.7	42.1	63.1

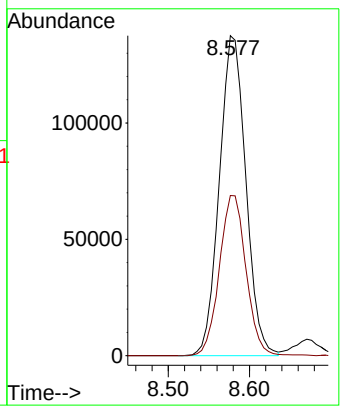




#33
1,2-Dichloroethane-d4
Concen: 100.713 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 65 Resp: 31153

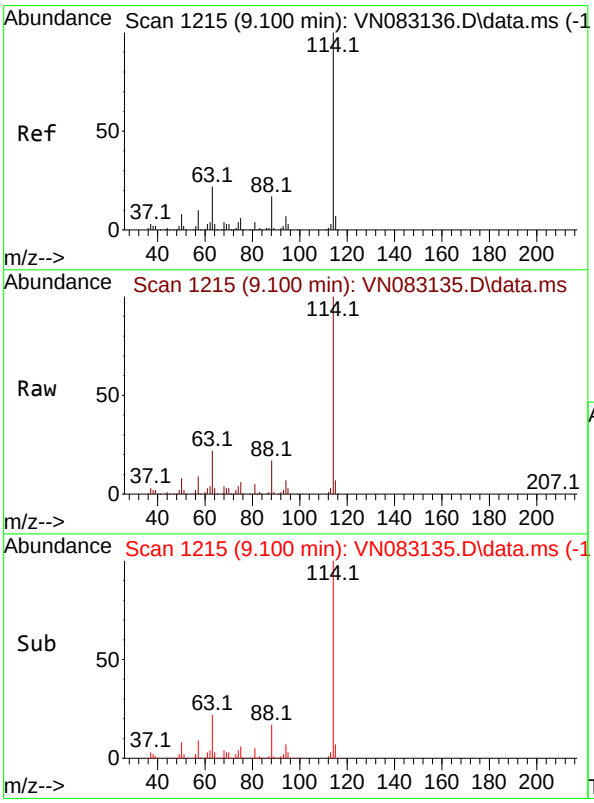
Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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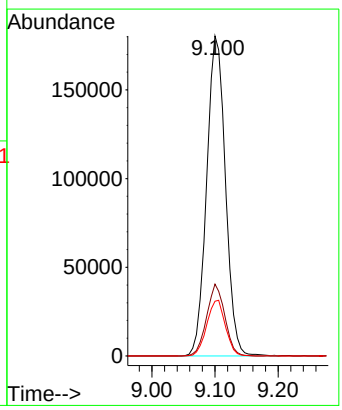
Reviewed By :John Carlone 08/08/2024
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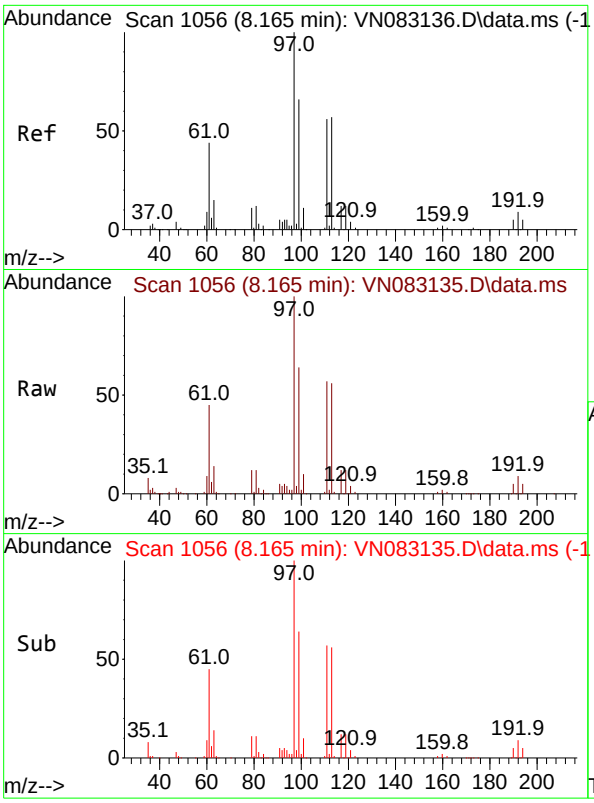


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:114 Resp: 373033

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.6
88	17.1	0.0	31.4

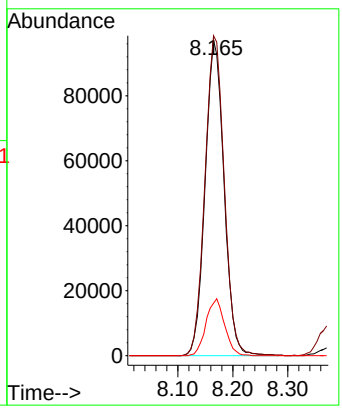




#35
Dibromofluoromethane
Concen: 99.556 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:113 Resp: 23180

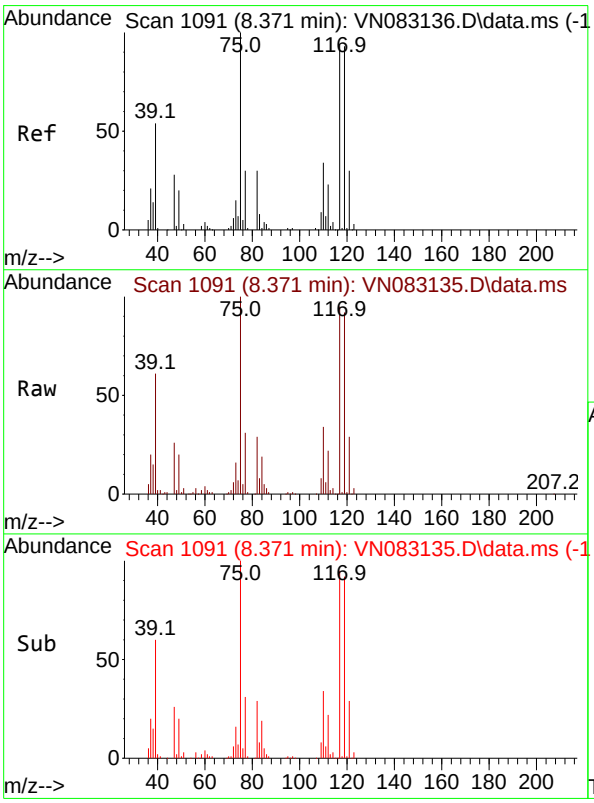
Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	17.7	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

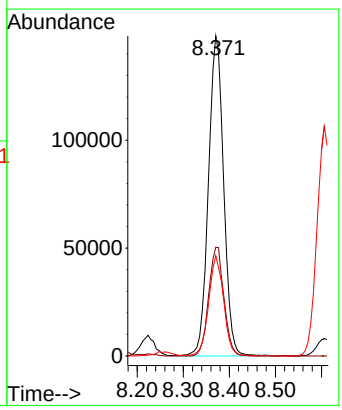
Reviewed By :John Carlone 08/08/2024
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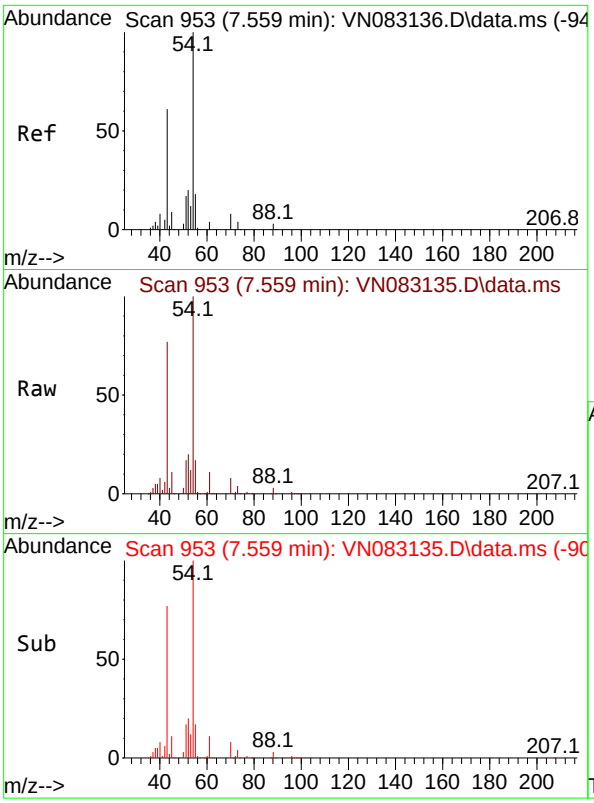


#36
1,1-Dichloropropene
Concen: 96.808 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 75 Resp: 340980

Ion	Ratio	Lower	Upper
75	100		
110	34.1	16.3	48.9
77	30.6	24.6	37.0





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

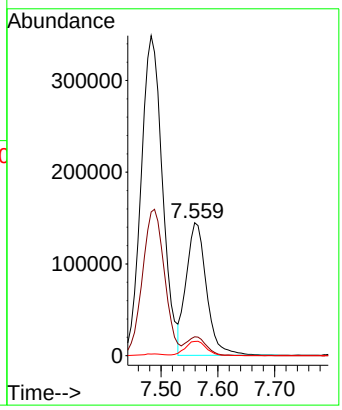
Tgt Ion: 43 Resp: 35730

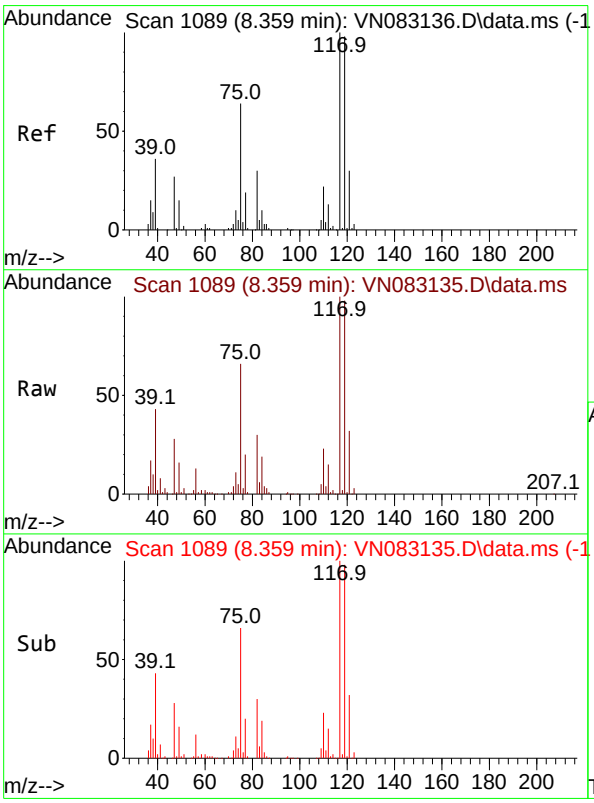
Ion	Ratio	Lower	Upper
43	100		
61	14.4	9.3	13.9
70	11.4	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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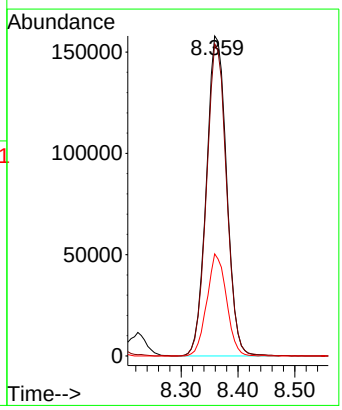


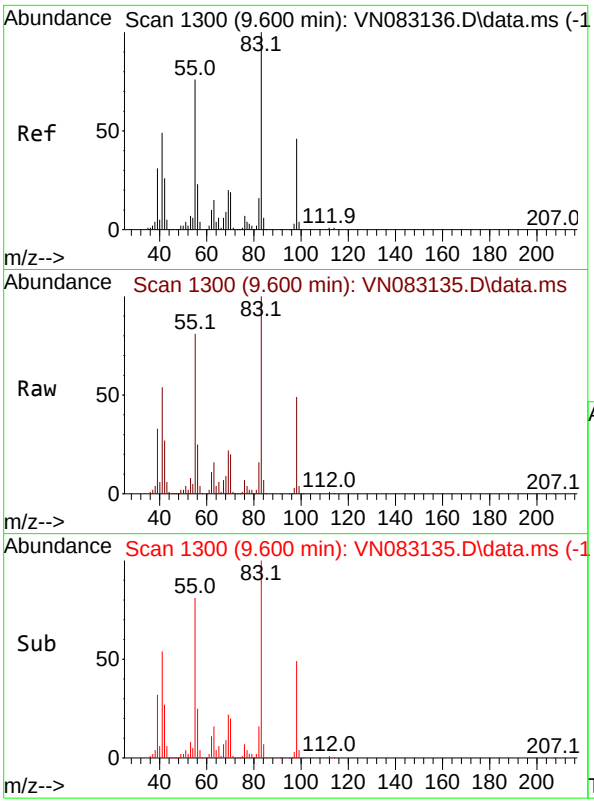


#38
Carbon Tetrachloride
Concen: 98.597 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:117 Resp: 391148

Ion	Ratio	Lower	Upper
117	100		
119	97.5	74.9	112.3
121	31.9	24.3	36.5





#39
Methylcyclohexane
Concen: 97.486 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

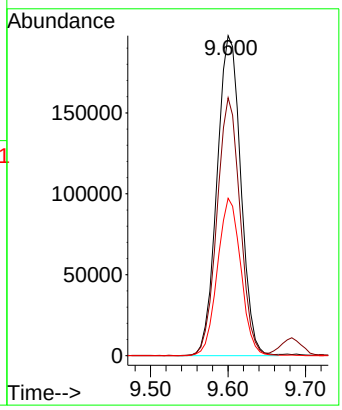
Tgt Ion: 83 Resp: 42174

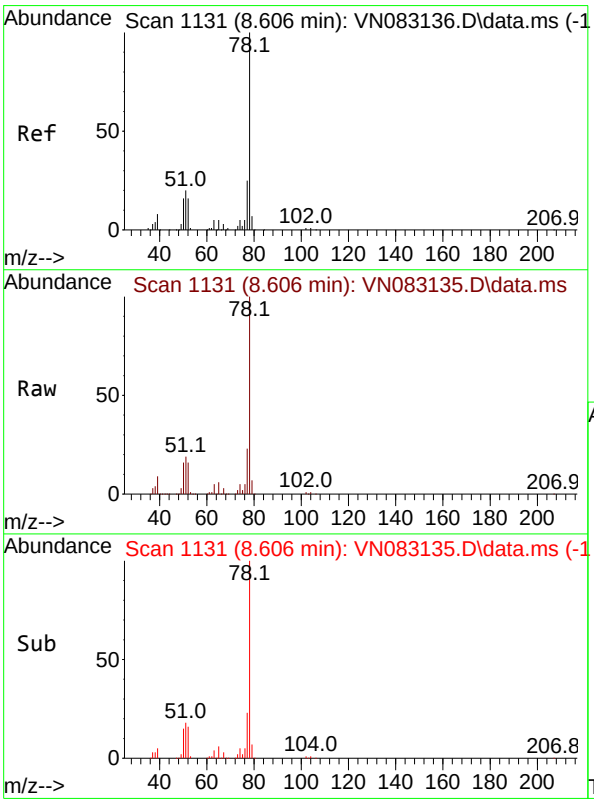
Ion	Ratio	Lower	Upper
83	100		
55	80.6	66.4	99.6
98	49.2	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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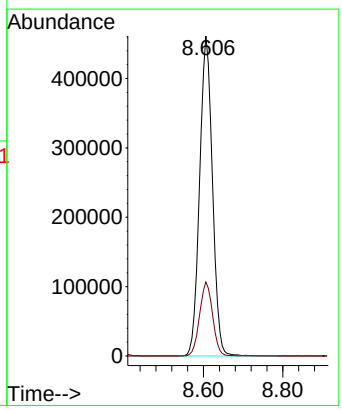


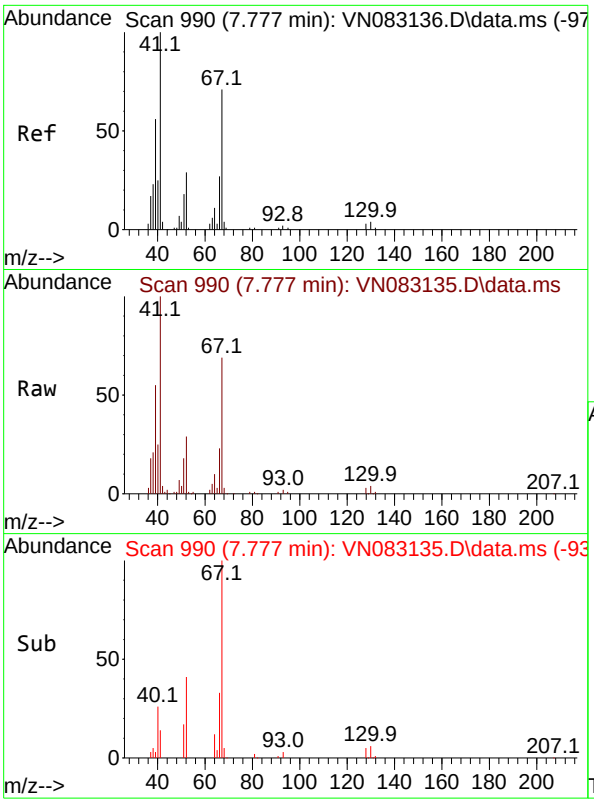


#40
Benzene
Concen: 98.550 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 78 Resp: 1034059

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4

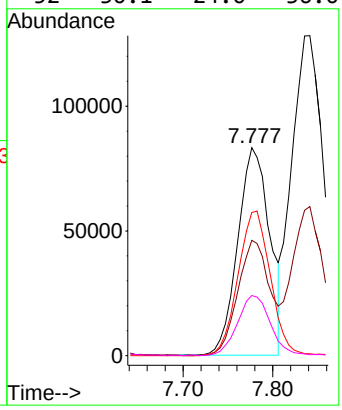




#41
Methacrylonitrile
Concen: 91.799 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 41 Resp: 20584

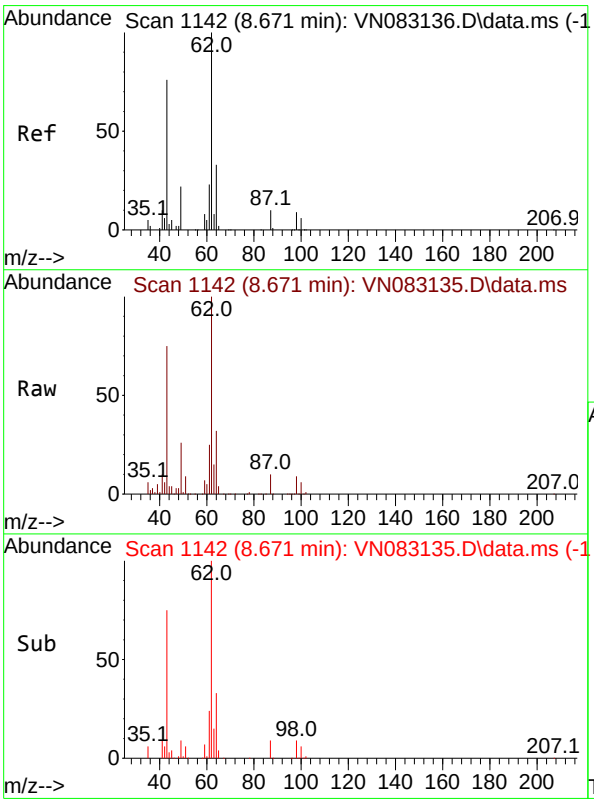
Ion	Ratio	Lower	Upper
41	100		
39	55.7	45.5	68.3
67	70.9	50.5	75.7
52	30.1	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

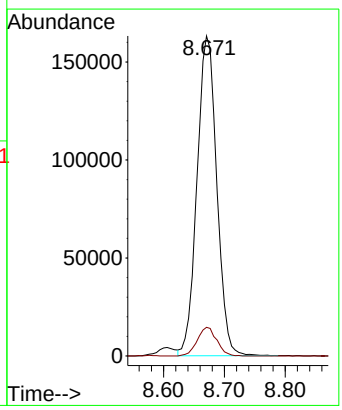
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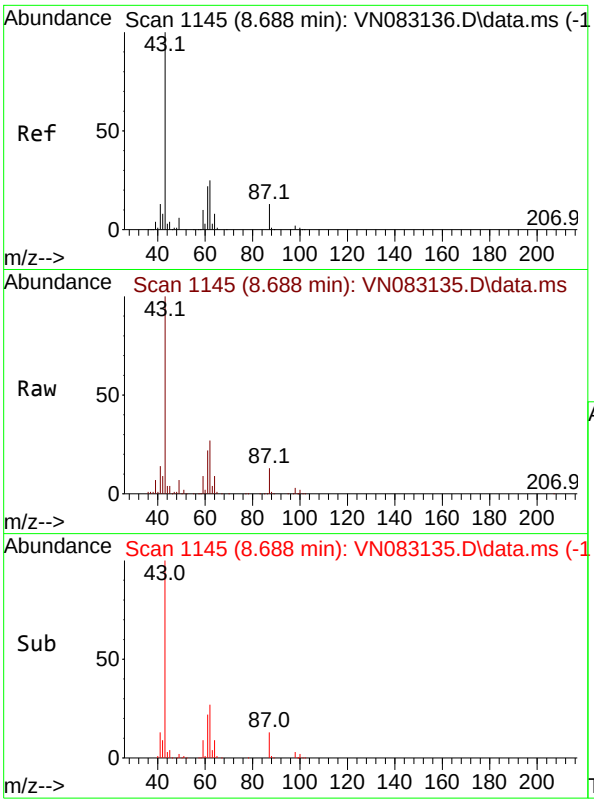


#42
1,2-Dichloroethane
Concen: 96.385 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 62 Resp: 368412

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	15.8





#43
Isopropyl Acetate
Concen: 99.962 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

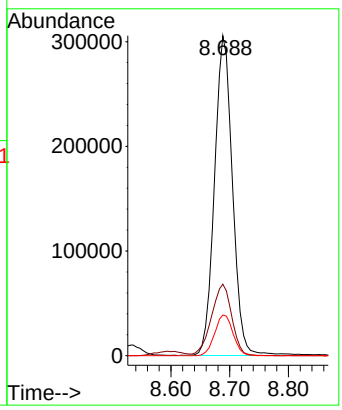
Tgt Ion: 43 Resp: 64858

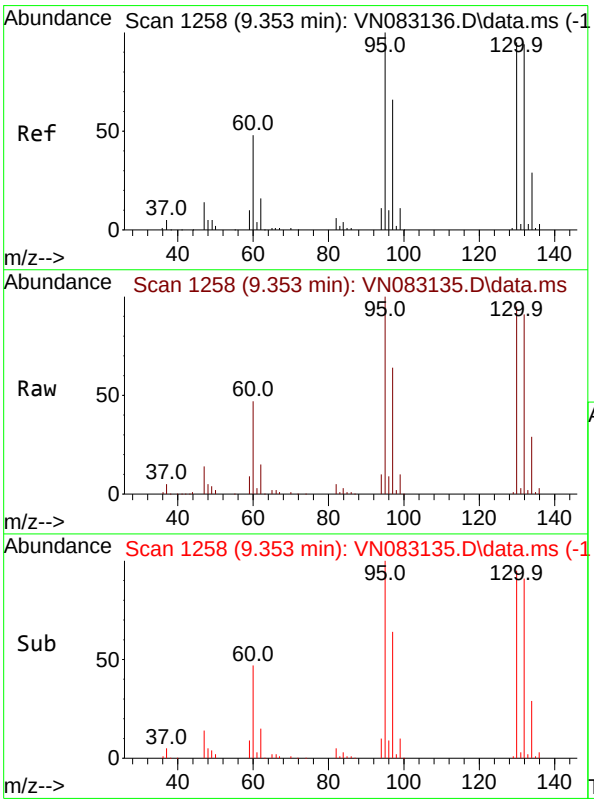
Ion	Ratio	Lower	Upper
43	100		
61	25.2	17.8	26.6
87	13.0	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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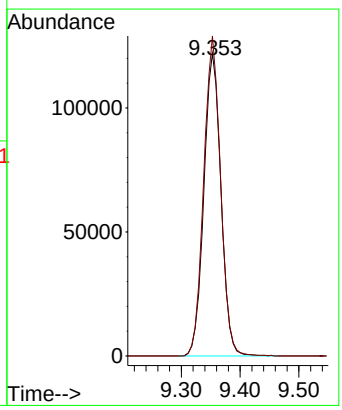


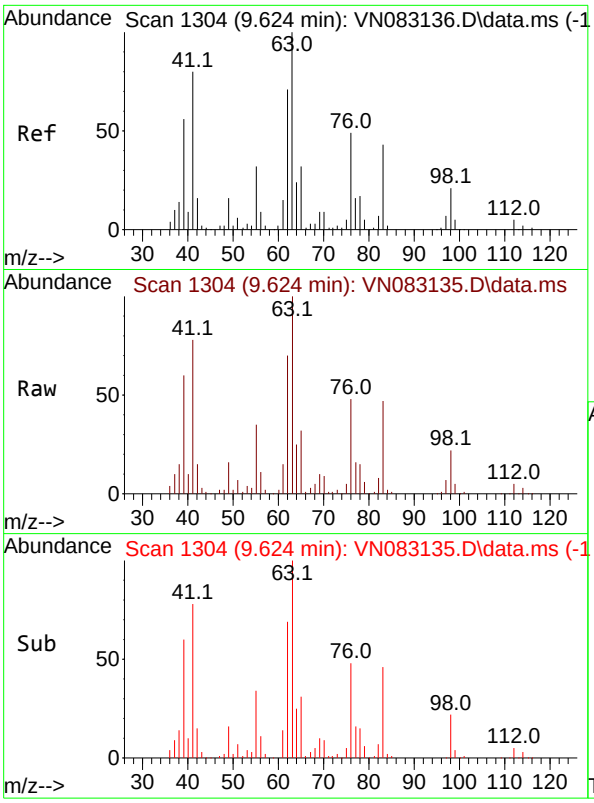


#44
Trichloroethene
Concen: 98.774 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:130 Resp: 246689

Ion	Ratio	Lower	Upper
130	100		
95	105.7	0.0	197.8

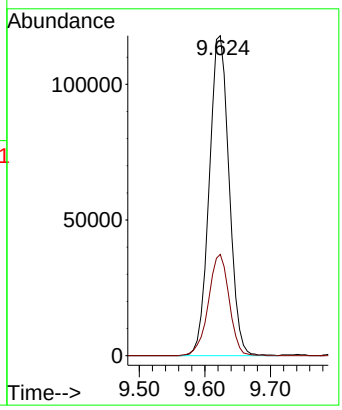




#45
1,2-Dichloropropane
Concen: 99.275 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 63 Resp: 24726

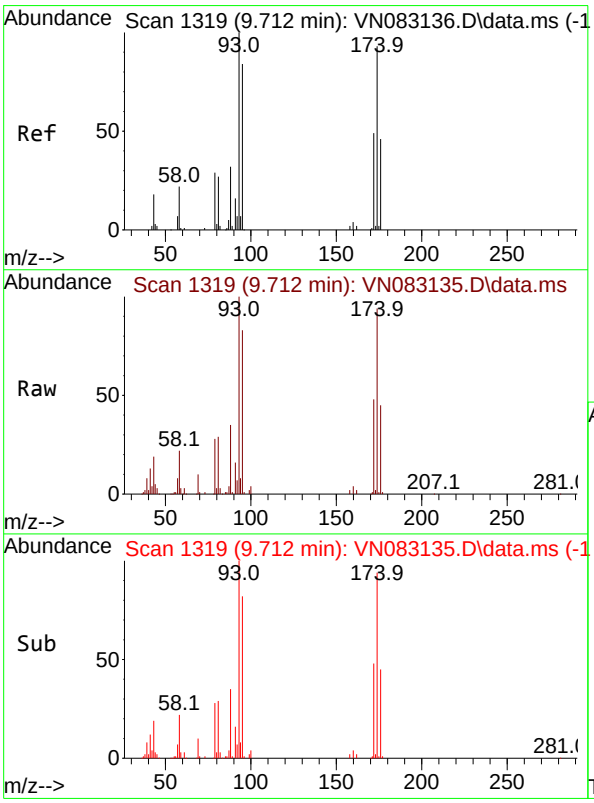
Ion	Ratio	Lower	Upper
63	100		
65	31.6	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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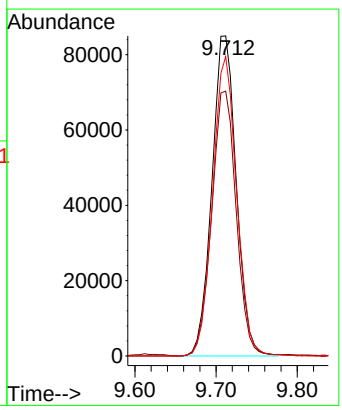
Reviewed By :John Carlone 08/08/2024
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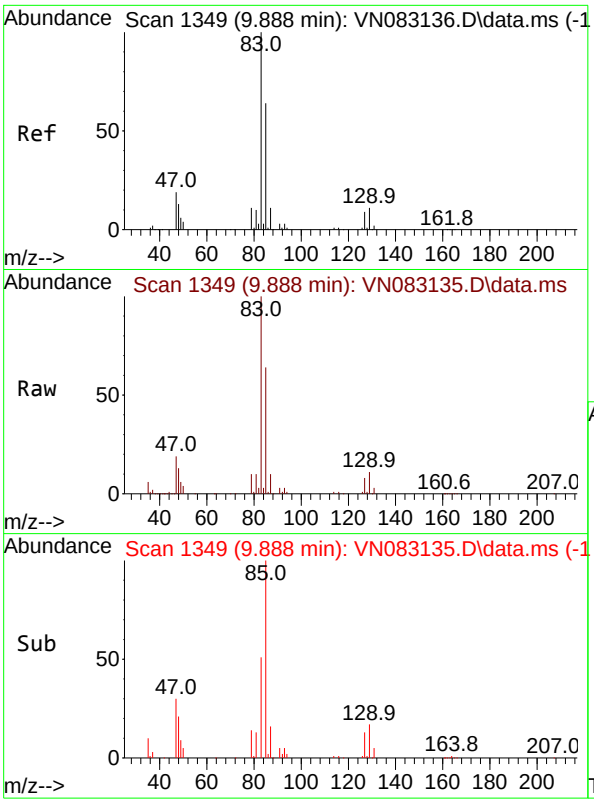


#46
Dibromomethane
Concen: 99.449 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 93 Resp: 177294

Ion	Ratio	Lower	Upper
93	100		
95	83.4	65.8	98.6
174	92.1	71.7	107.5

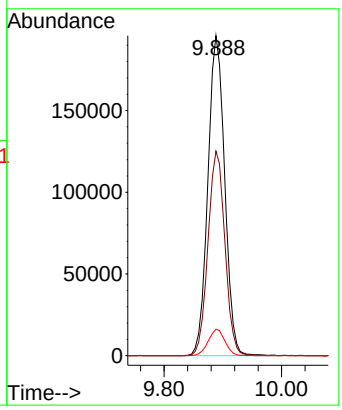




#47
Bromodichloromethane
Concen: 97.184 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 83 Resp: 38902

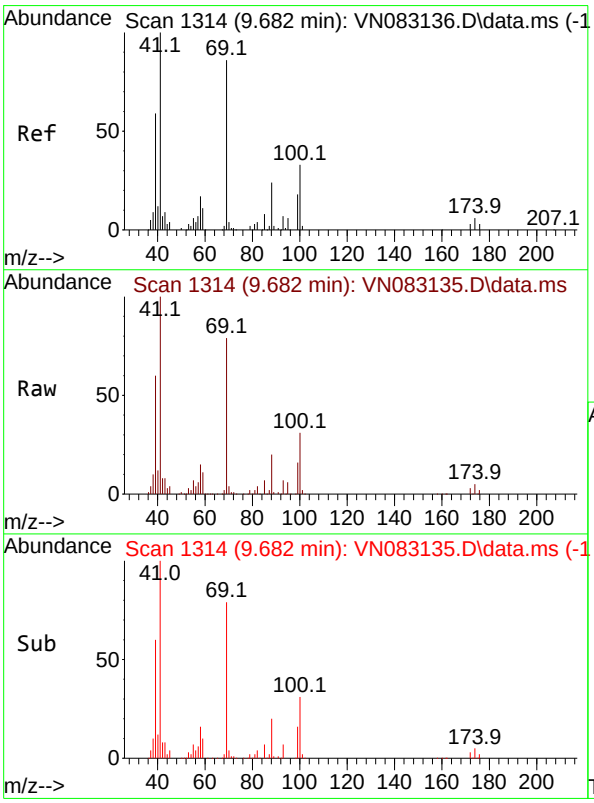
Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	8.3	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

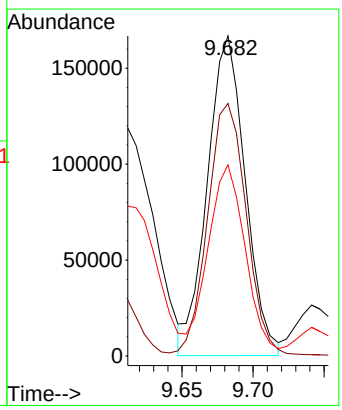
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

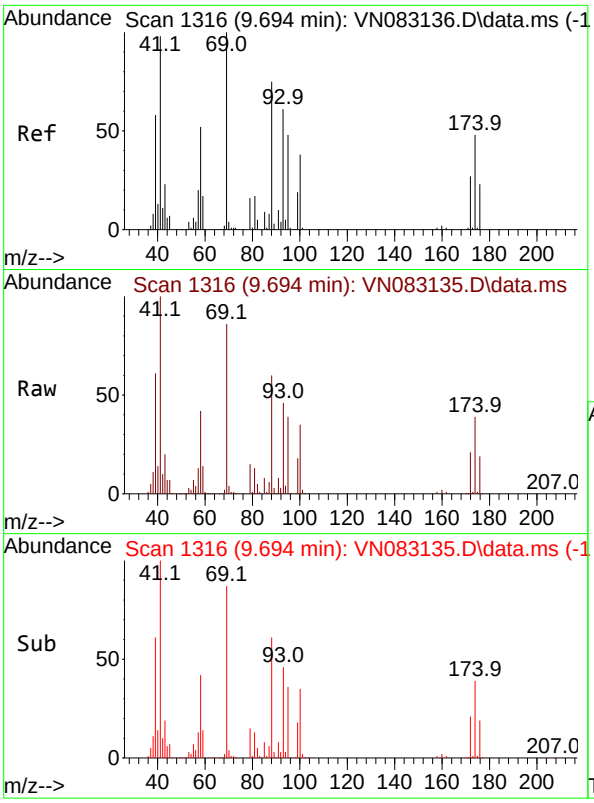


#48
Methyl methacrylate
Concen: 94.886 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 41 Resp: 309367

Ion	Ratio	Lower	Upper
41	100		
69	81.0	56.3	84.5
39	58.7	50.3	75.5





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

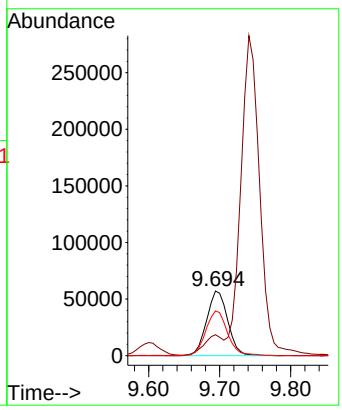
Tgt Ion: 88 Resp: 11734

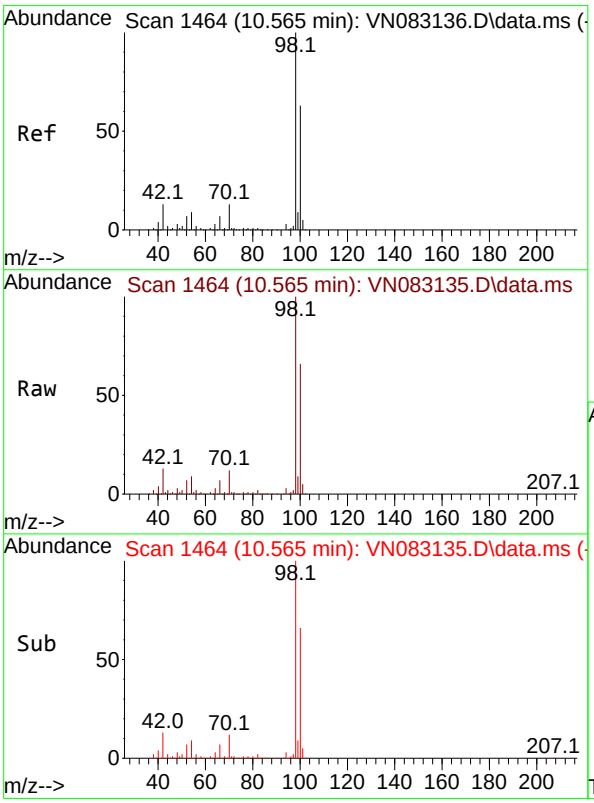
Ion	Ratio	Lower	Upper
88	100		
43	28.2	27.8	41.8
58	71.8	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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

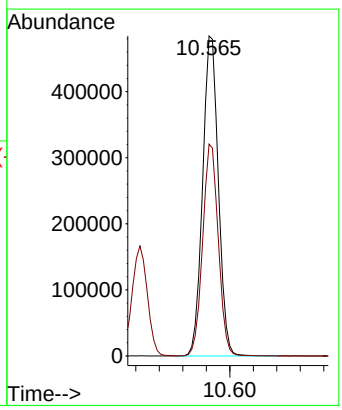


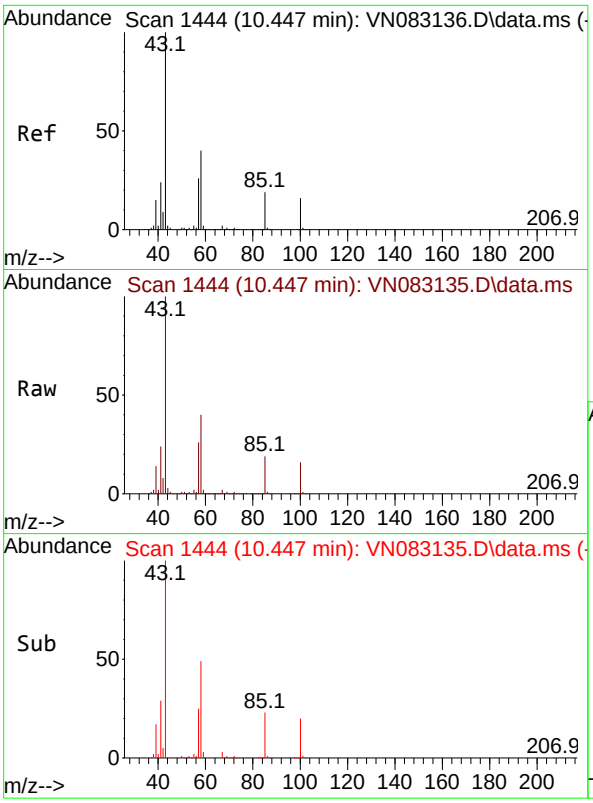


#50
Toluene-d8
Concen: 103.163 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 98 Resp: 896022

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.5	77.3





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

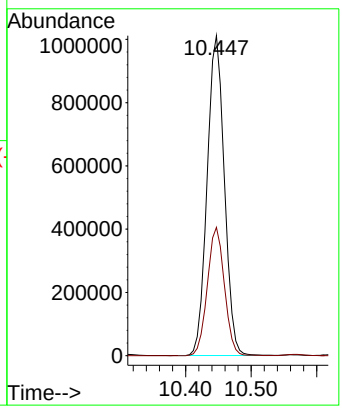
Tgt Ion: 43 Resp: 184634

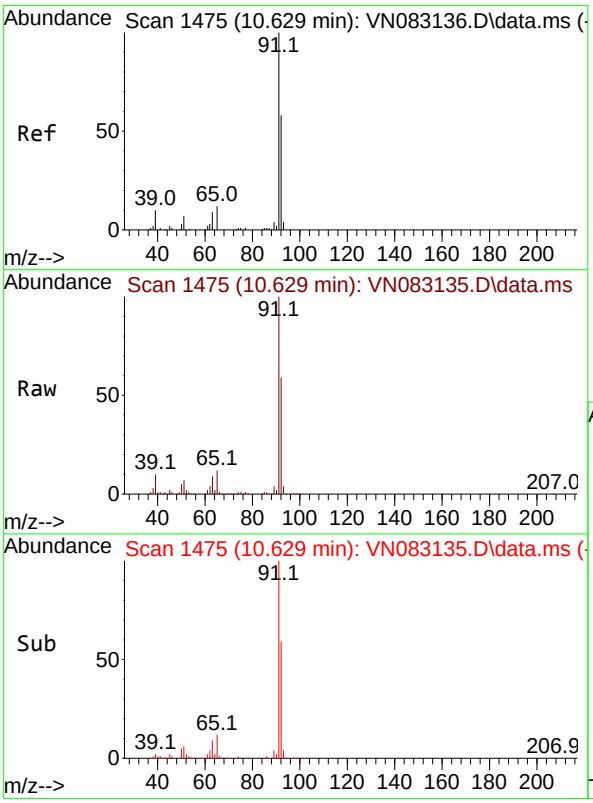
Ion	Ratio	Lower	Upper
43	100		
58	39.7	28.2	42.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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

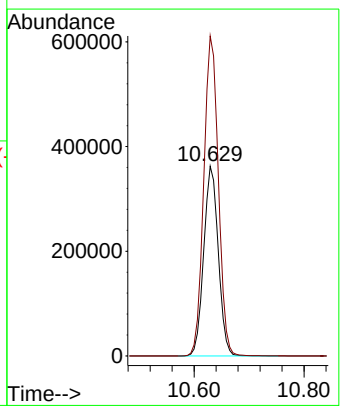


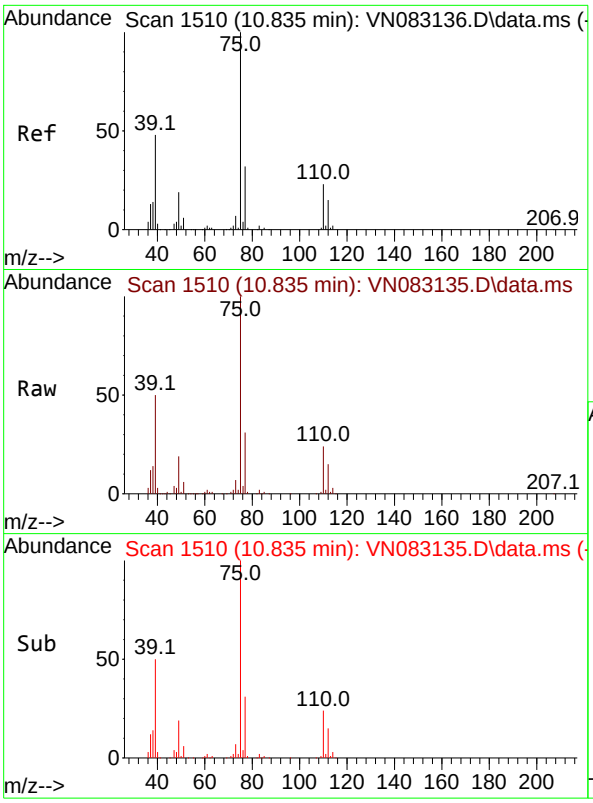


#52
Toluene
Concen: 100.347 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 92 Resp: 665274

Ion	Ratio	Lower	Upper
92	100		
91	169.4	139.4	209.0

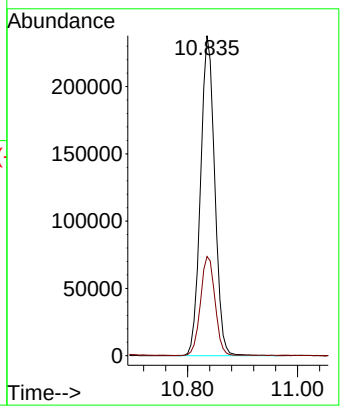




#53
t-1,3-Dichloropropene
Concen: 103.317 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 75 Resp: 42482

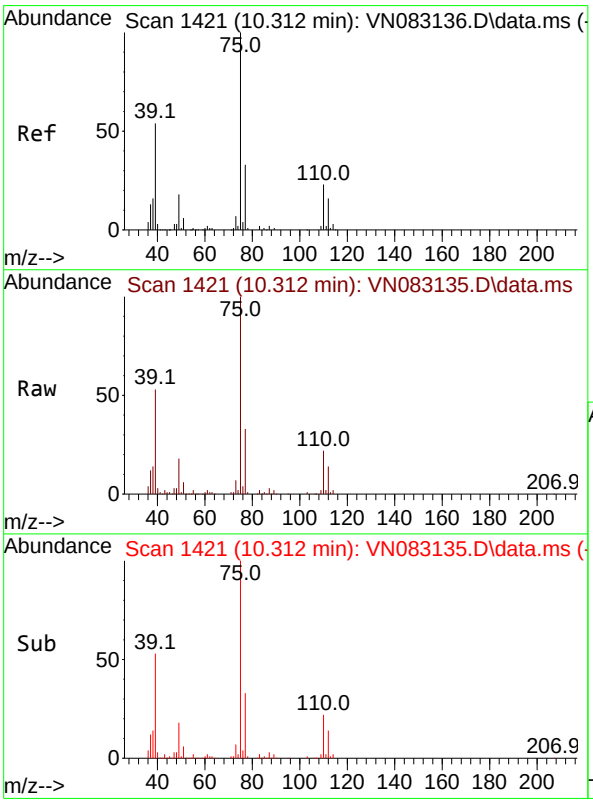
Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

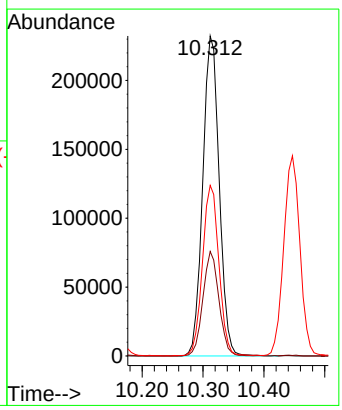
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

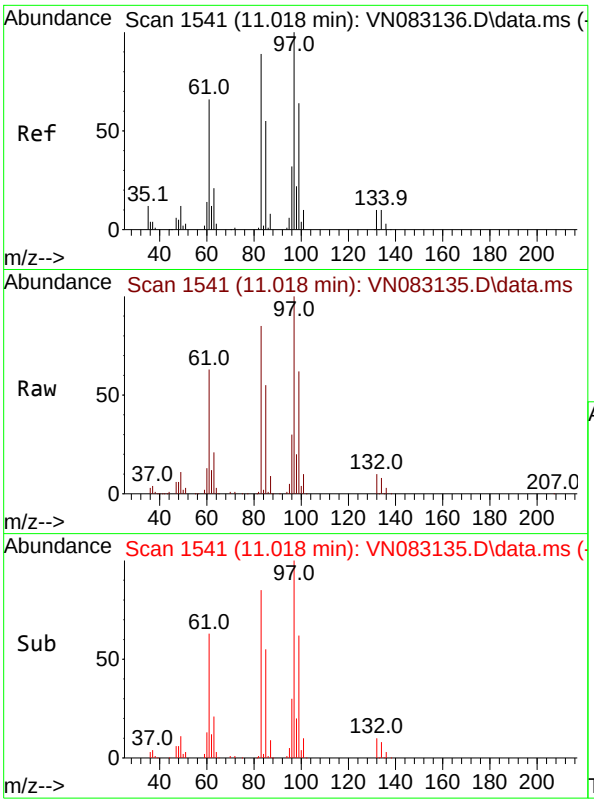


#54
cis-1,3-Dichloropropene
Concen: 99.903 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 75 Resp: 436928

Ion	Ratio	Lower	Upper
75	100		
77	32.7	24.3	36.5
39	53.2	50.5	75.7

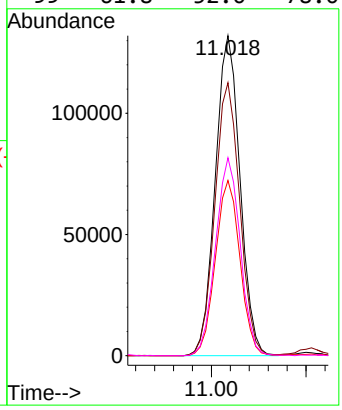




#55
1,1,2-Trichloroethane
Concen: 101.114 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 97 Resp: 24023

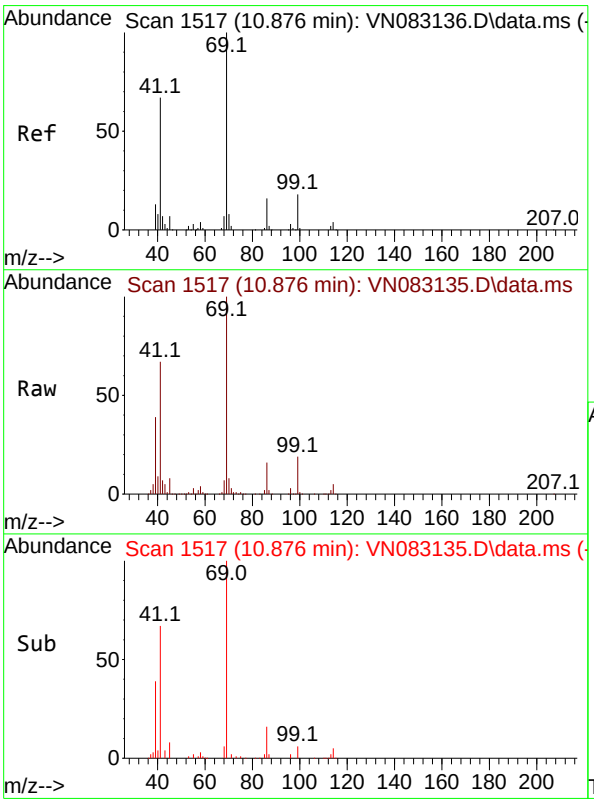
Ion	Ratio	Lower	Upper
97	100		
83	85.3	71.4	107.0
85	54.8	45.8	68.6
99	61.8	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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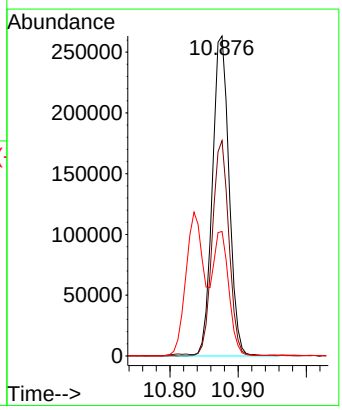
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

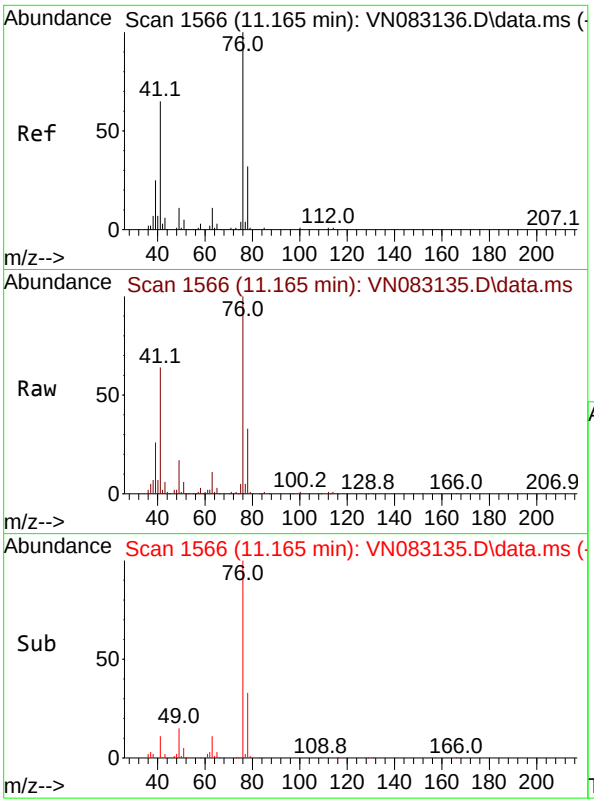


#56
Ethyl methacrylate
Concen: 100.164 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 69 Resp: 448632

Ion	Ratio	Lower	Upper
69	100		
41	66.4	63.4	95.2
39	34.5	37.4	56.0#





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

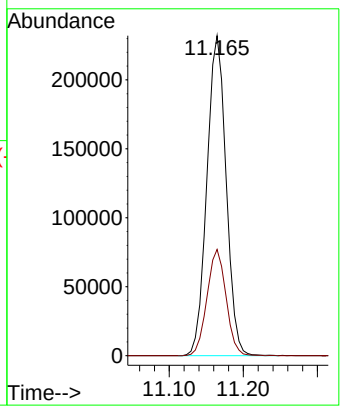
Tgt Ion: 76 Resp: 41850

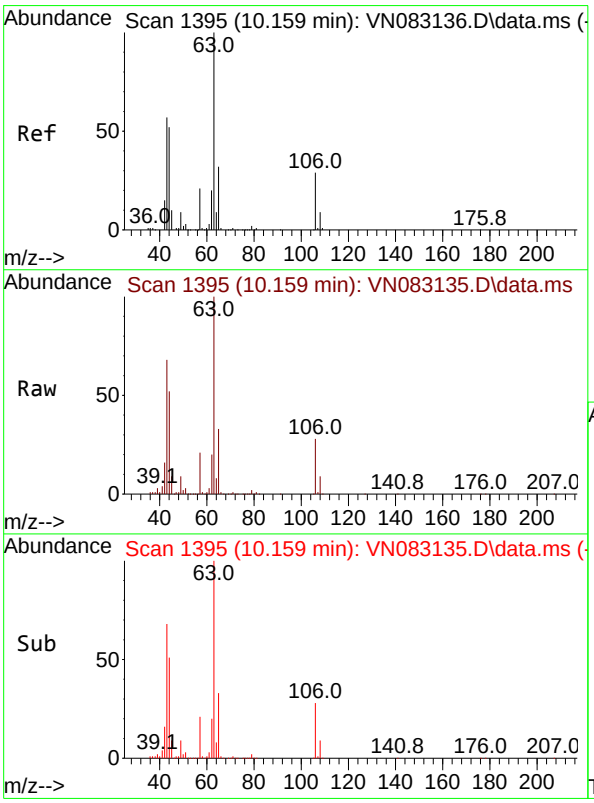
Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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

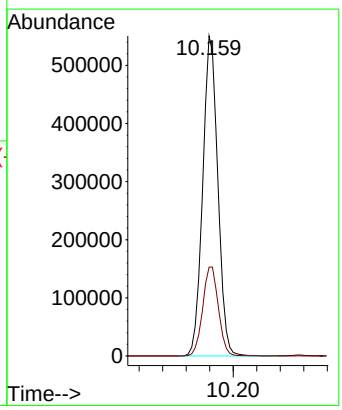


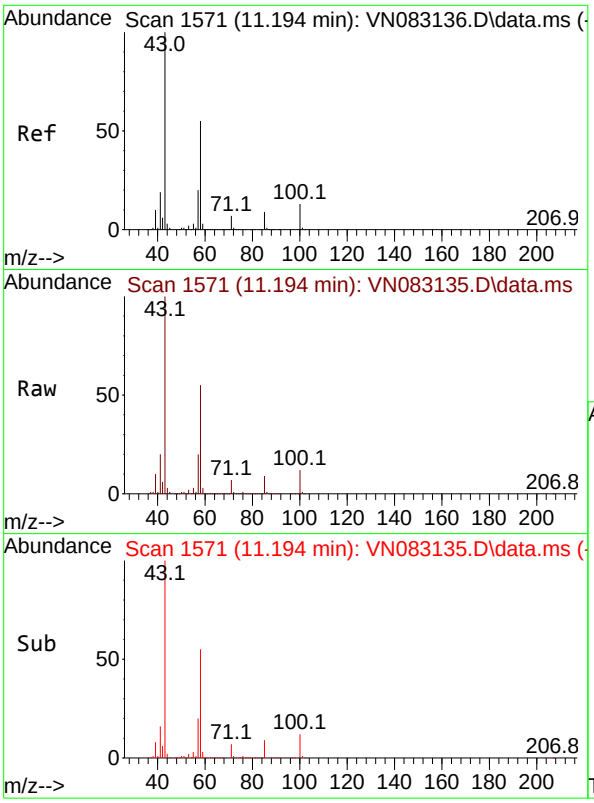


#58
2-Chloroethyl Vinyl ether
Concen: 519.987 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 63 Resp: 984478

Ion	Ratio	Lower	Upper
63	100		
106	28.8	21.4	32.0

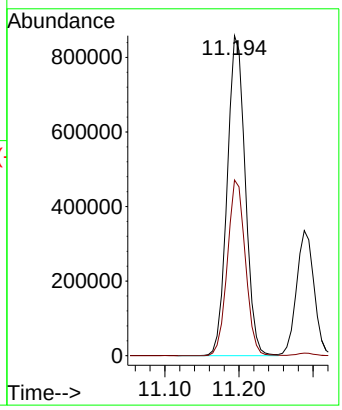




#59
2-Hexanone
Concen: 501.642 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 144730

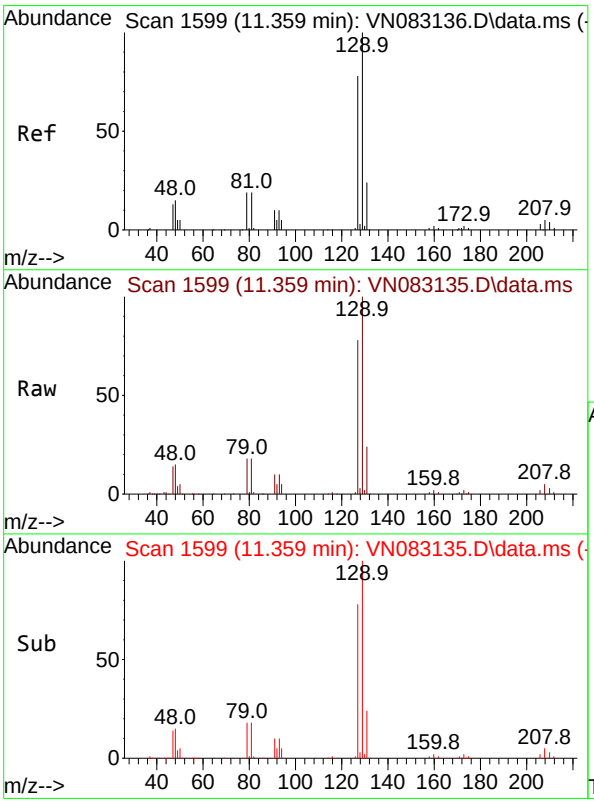
Ion	Ratio	Lower	Upper
43	100		
58	54.7	24.6	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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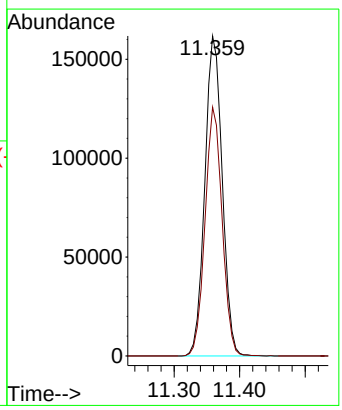
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

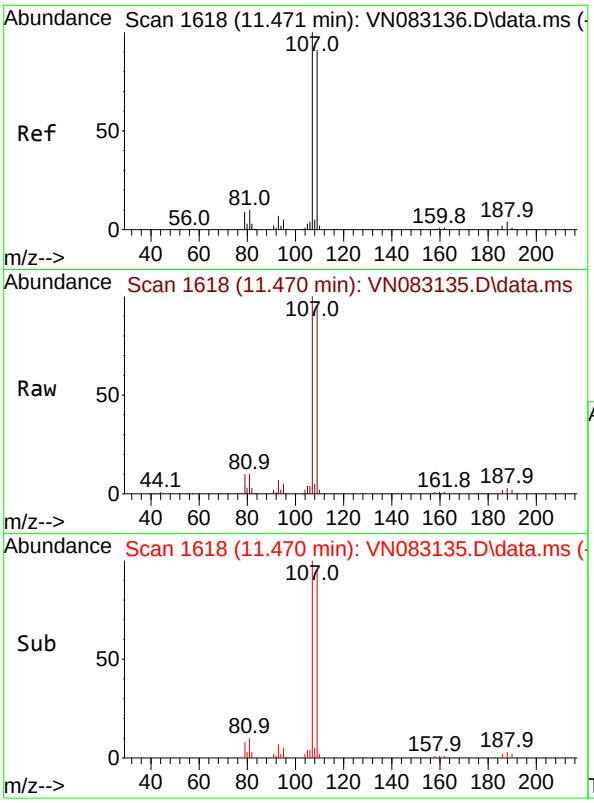


#60
Dibromochloromethane
Concen: 103.914 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:129 Resp: 298498

Ion	Ratio	Lower	Upper
129	100		
127	76.3	39.2	117.6





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

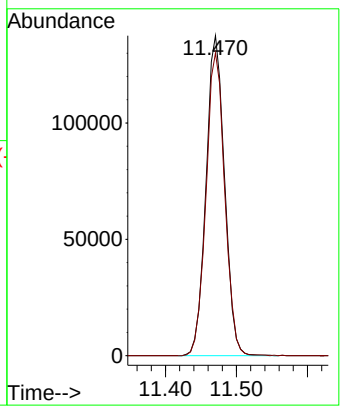
Tgt Ion:107 Resp: 24907

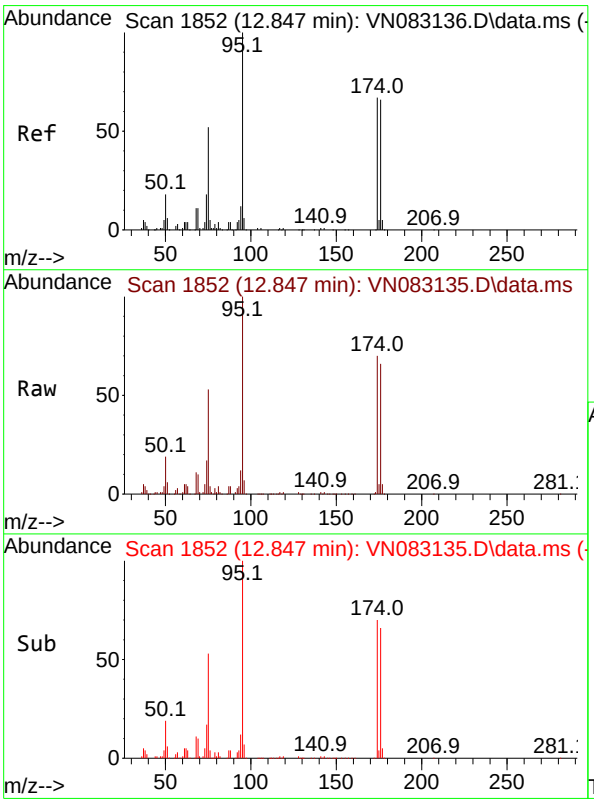
Ion	Ratio	Lower	Upper
107	100		
109	95.5	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

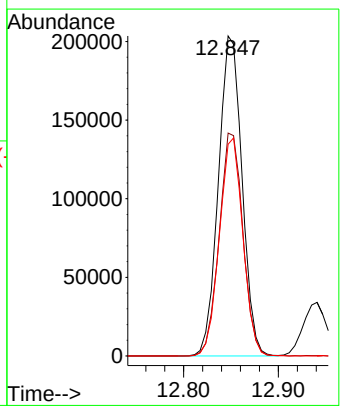


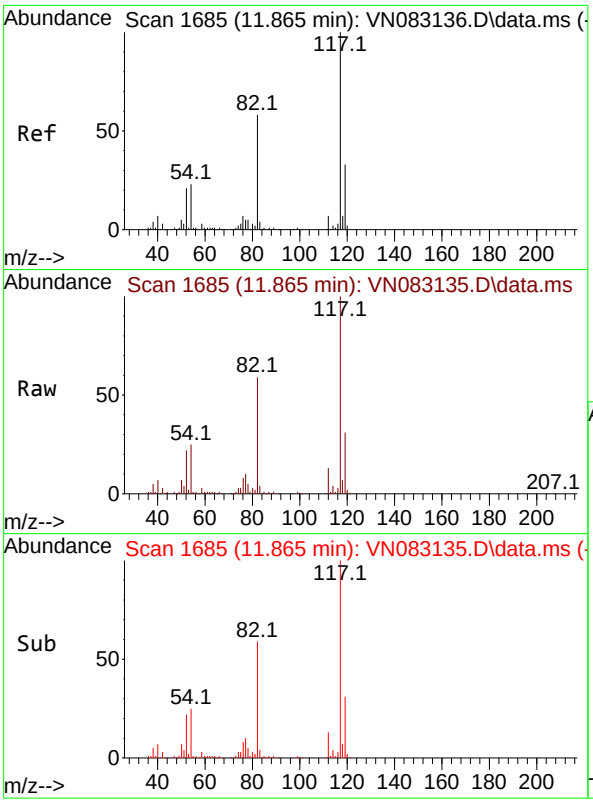


#62
4-Bromofluorobenzene
Concen: 104.234 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 95 Resp: 352947

Ion	Ratio	Lower	Upper
95	100		
174	69.9	0.0	159.2
176	67.6	0.0	147.6





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

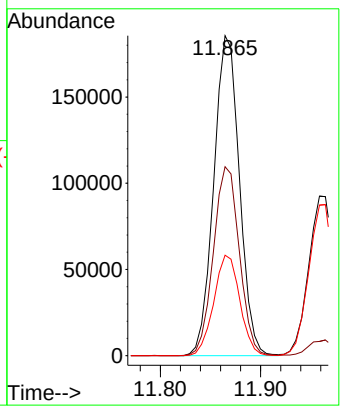
Tgt Ion:117 Resp: 32985

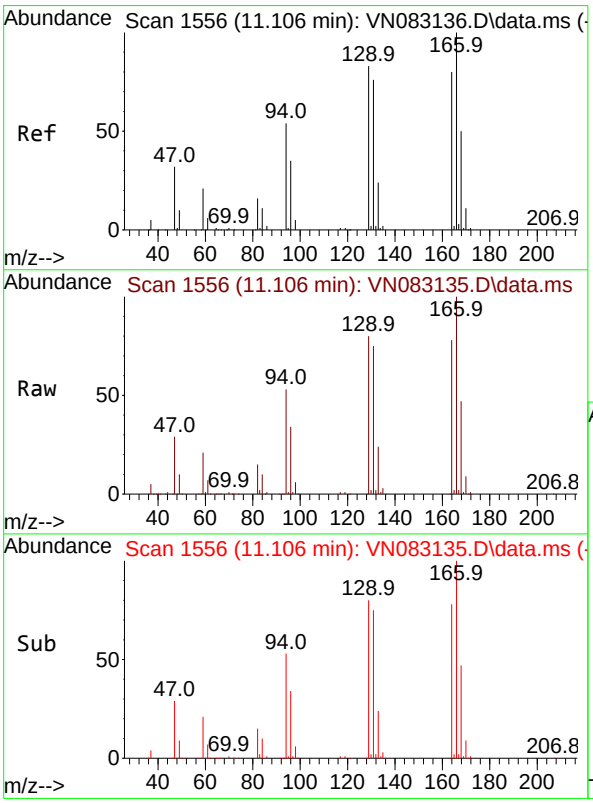
Ion	Ratio	Lower	Upper
117	100		
82	59.0	47.5	71.3
119	31.4	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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

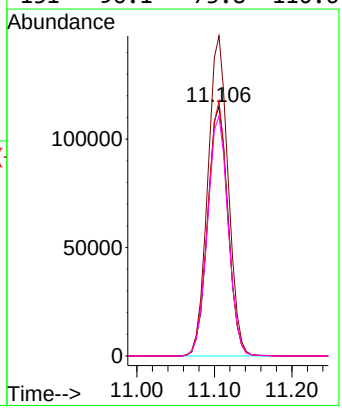


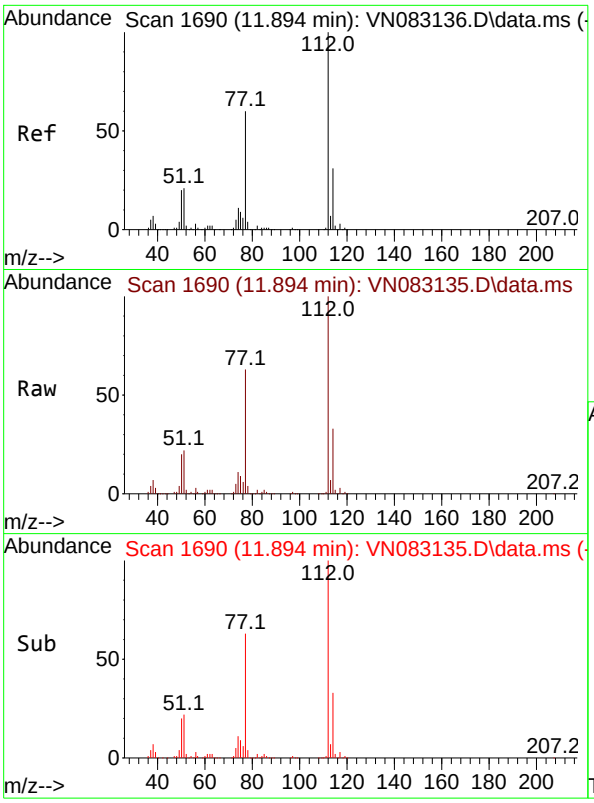


#64
Tetrachloroethene
Concen: 96.284 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:164 Resp: 210334

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

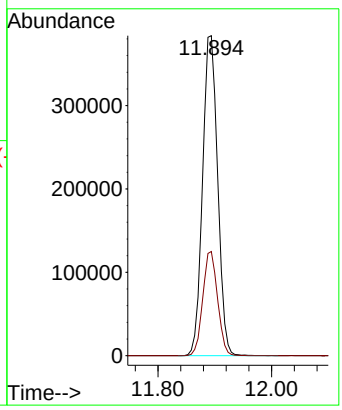




#65
Chlorobenzene
Concen: 96.805 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:112 Resp: 70563

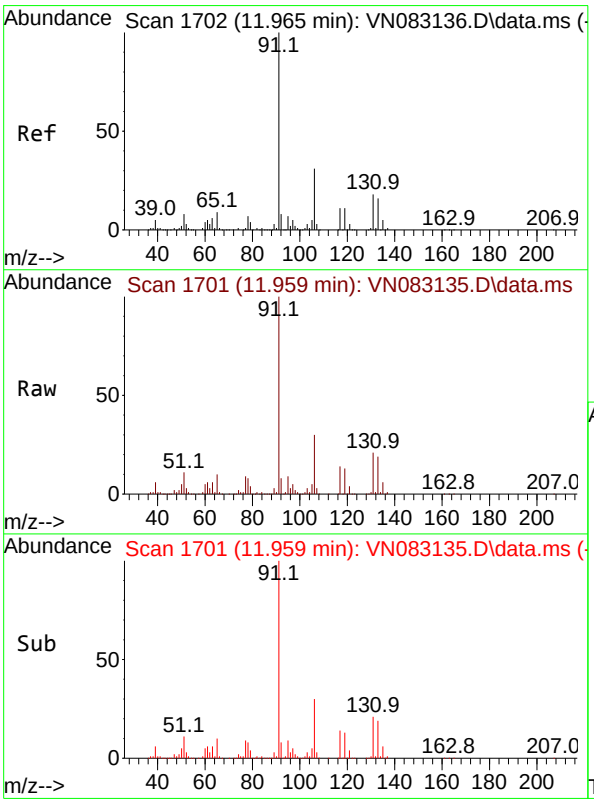
Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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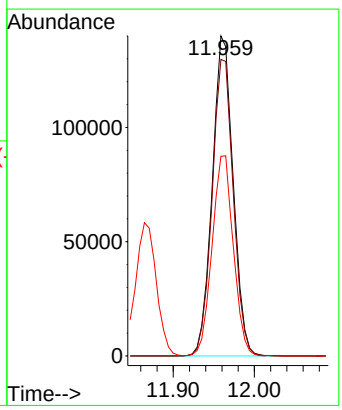
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

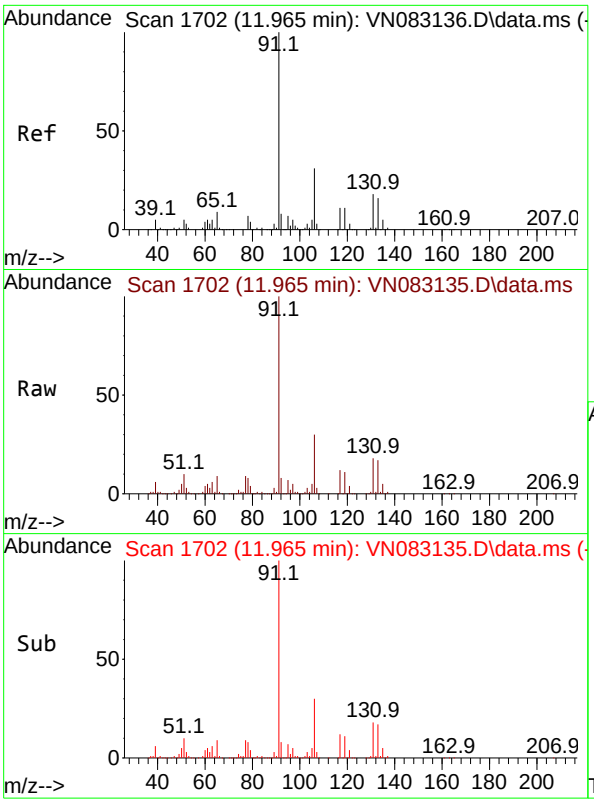


#66
1,1,1,2-Tetrachloroethane
Concen: 97.546 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:131 Resp: 250772

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	142.0
119	63.6	32.5	97.4





#67
Ethyl Benzene
Concen: 97.041 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

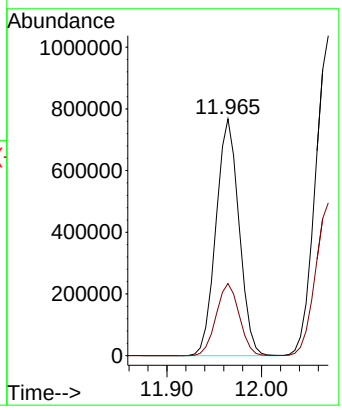
Tgt Ion: 91 Resp: 129763

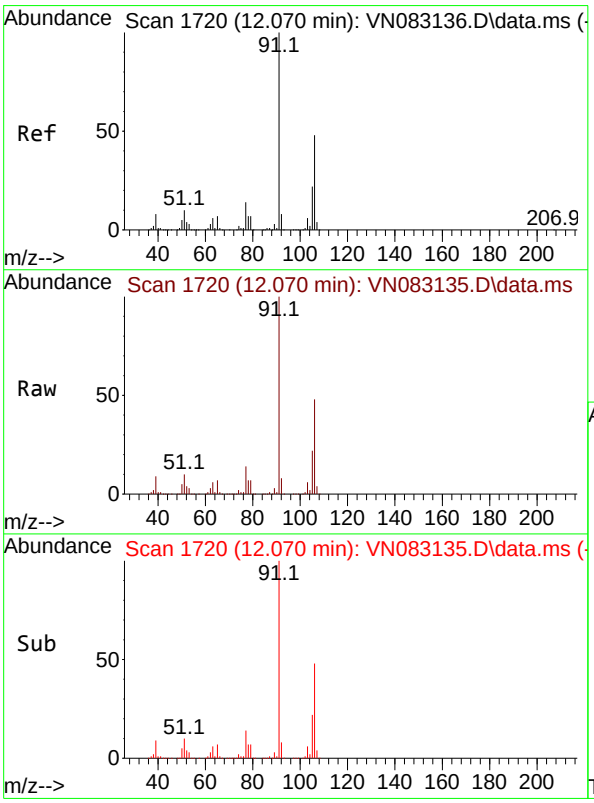
Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

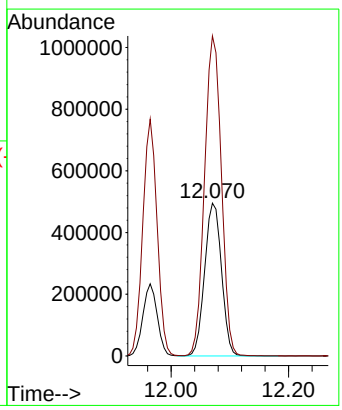


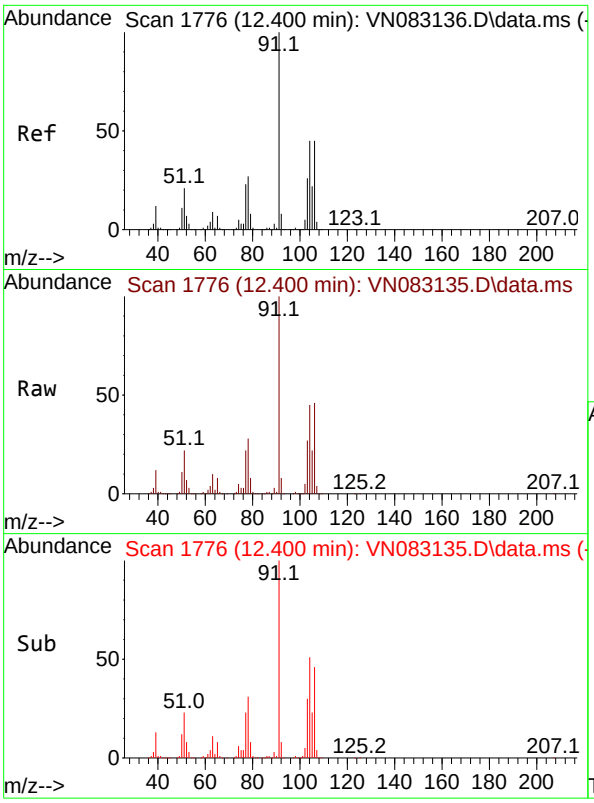


#68
m/p-Xylenes
Concen: 196.641 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:106 Resp: 984984

Ion	Ratio	Lower	Upper
106	100		
91	208.8	166.1	249.1

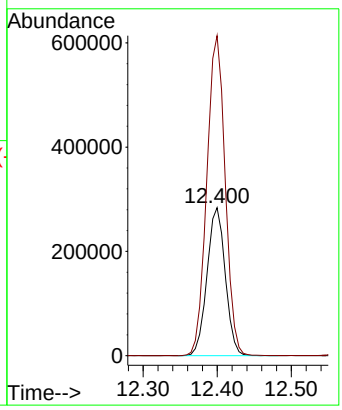




#69
o-Xylene
Concen: 98.107 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:106 Resp: 48467

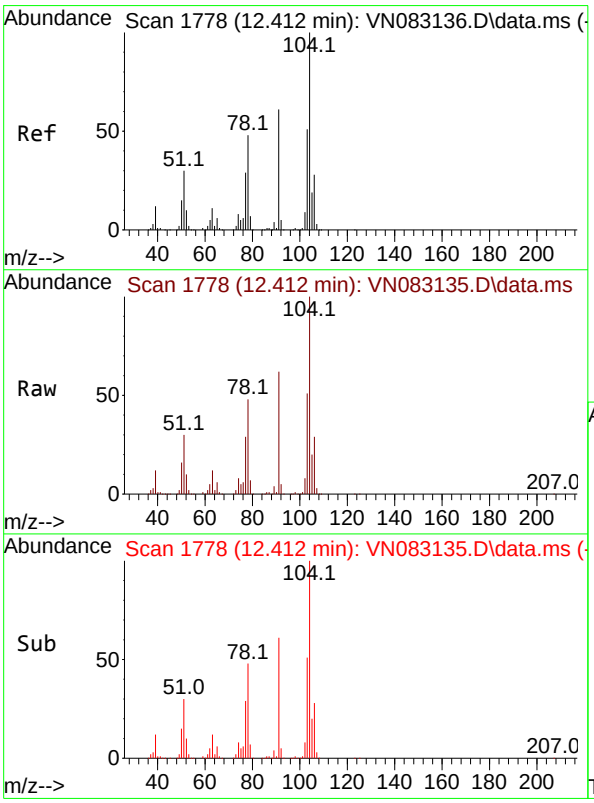
Ion	Ratio	Lower	Upper
106	100		
91	218.1	111.3	333.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

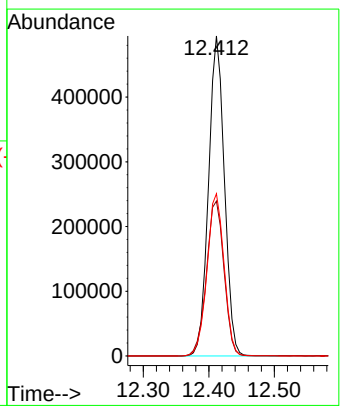
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

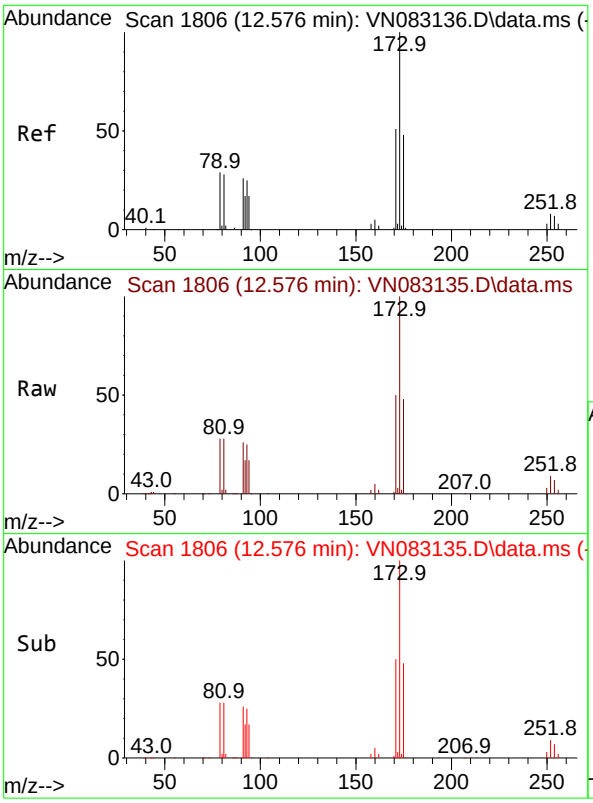


#70
Styrene
Concen: 100.261 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:104 Resp: 831903

Ion	Ratio	Lower	Upper
104	100		
78	53.5	41.6	62.4
103	54.4	44.0	66.0

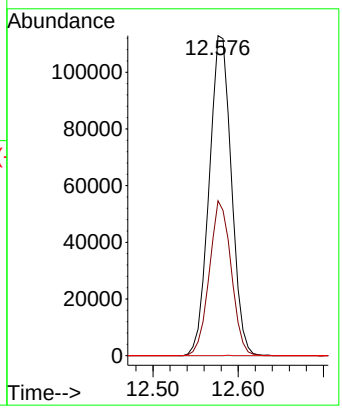




#71
Bromoform
Concen: 104.942 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:173 Resp: 20438

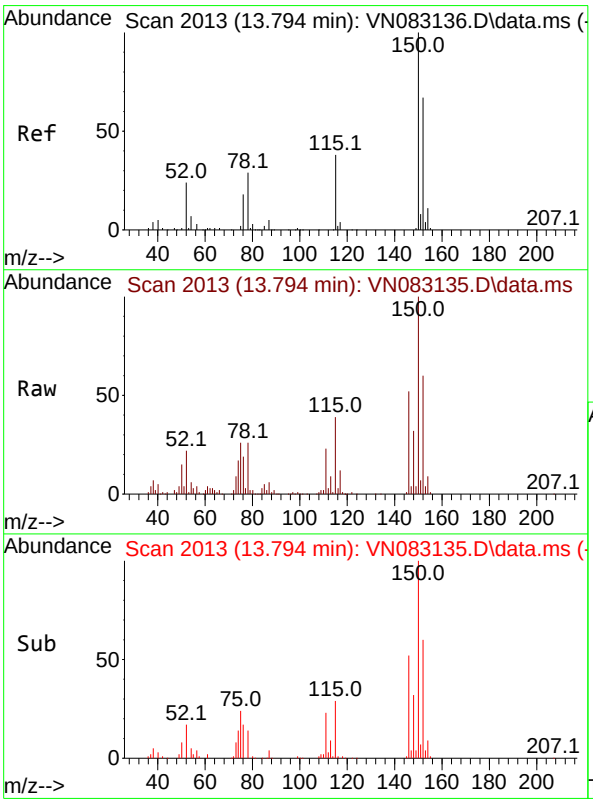
Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

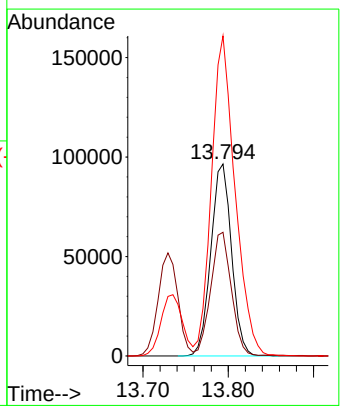
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

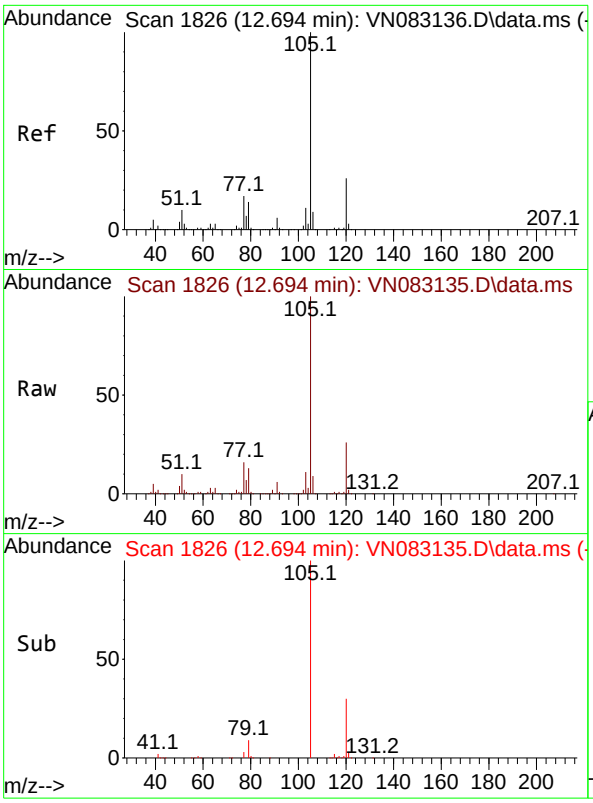


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:152 Resp: 162834

Ion	Ratio	Lower	Upper
152	100		
115	63.9	30.6	91.6
150	189.9	0.0	348.6

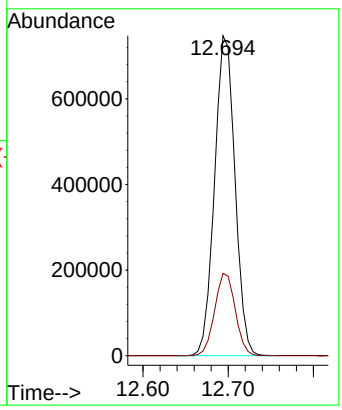




#73
Isopropylbenzene
Concen: 91.399 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:105 Resp: 124484

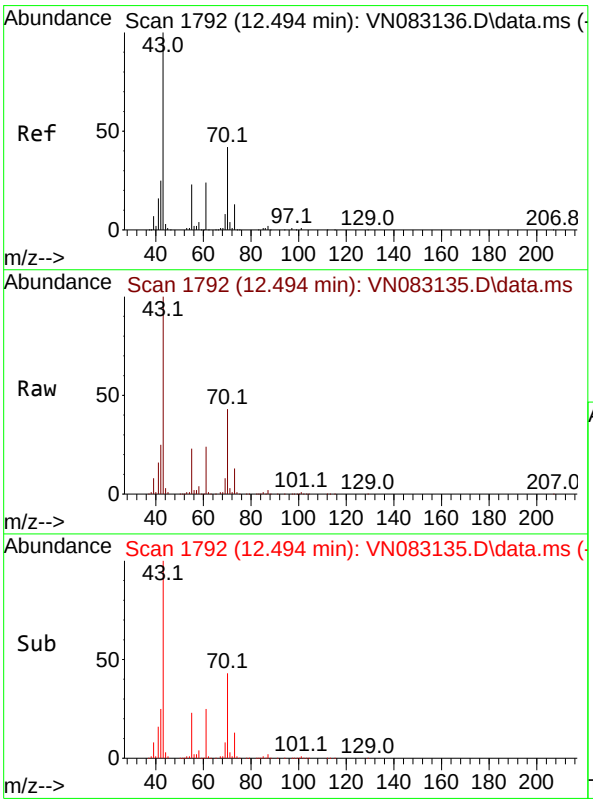
Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

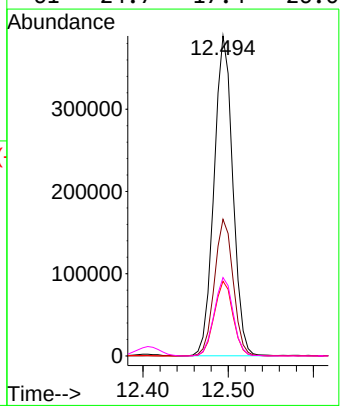
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

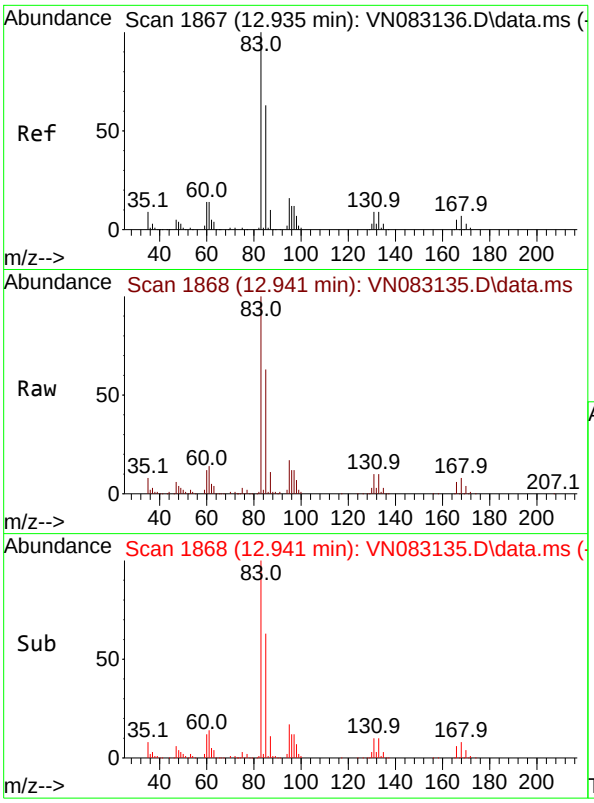


#74
N-amyl acetate
Concen: 89.282 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 594797

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





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

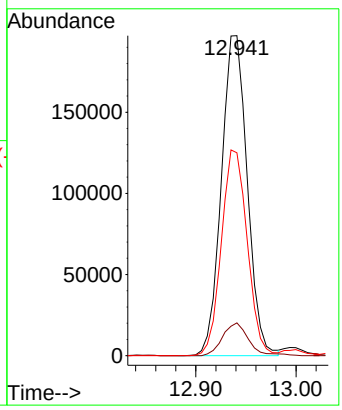
Tgt Ion: 83 Resp: 35334

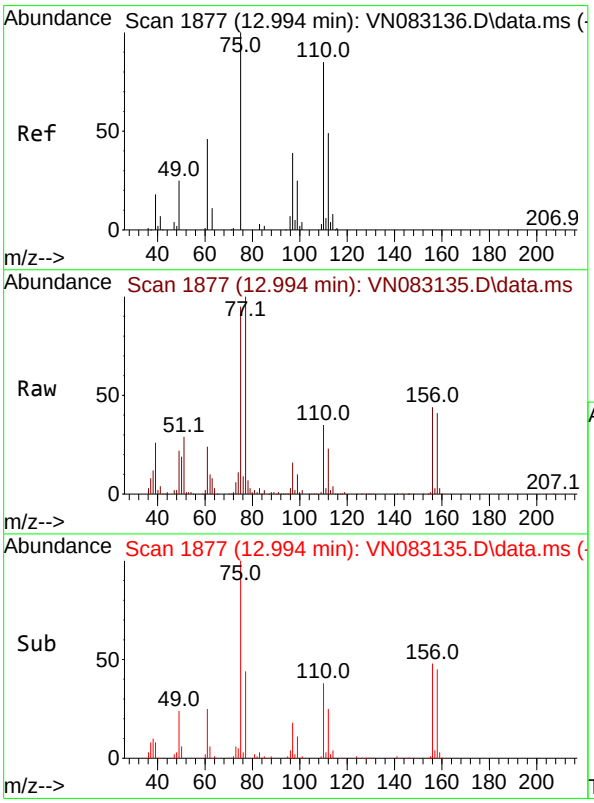
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	14.9
85	64.2	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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

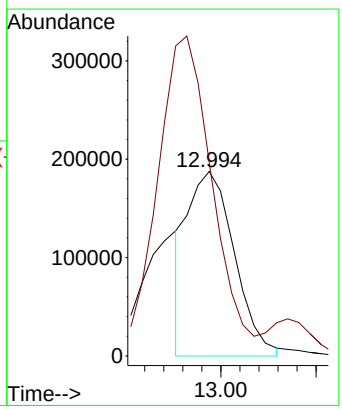


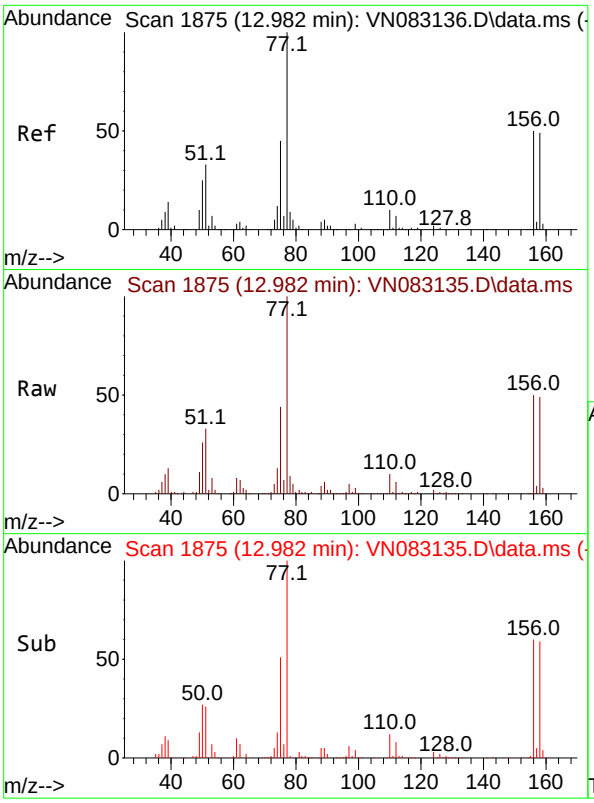


#76
1,2,3-Trichloropropane
Concen: 89.478 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 75 Resp: 320302

Ion	Ratio	Lower	Upper
75	100		
77	203.7	110.9	332.6

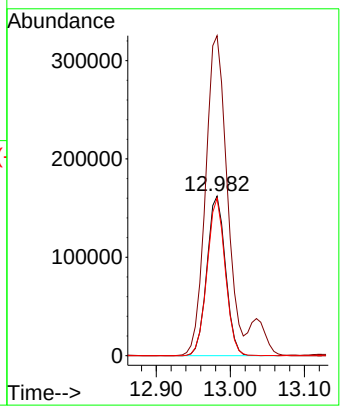




#77
Bromobenzene
Concen: 93.431 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:156 Resp: 28267

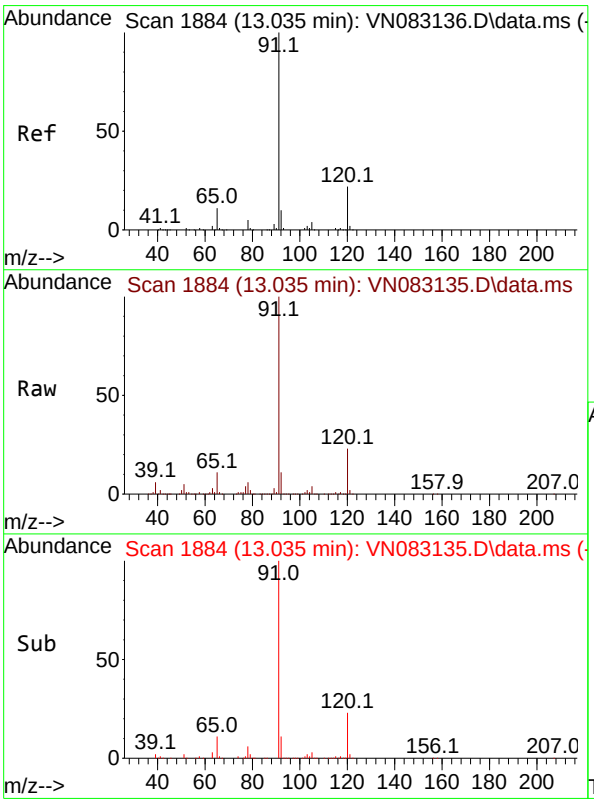
Ion	Ratio	Lower	Upper
156	100		
77	230.9	111.3	333.8
158	96.4	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

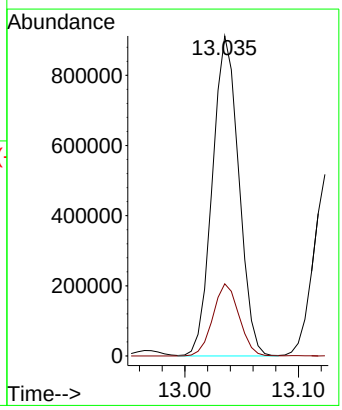
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

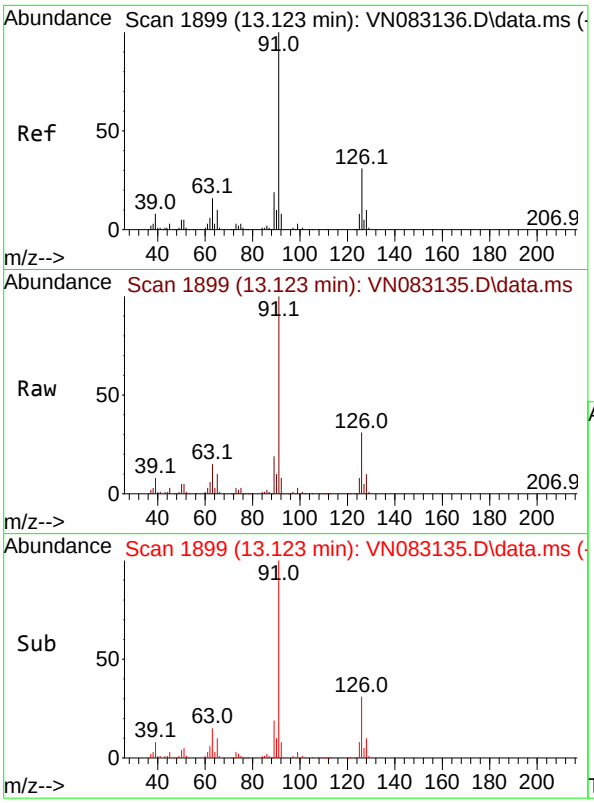


#78
n-propylbenzene
Concen: 93.979 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 91 Resp: 1473868

Ion	Ratio	Lower	Upper
91	100		
120	22.3	10.9	32.9

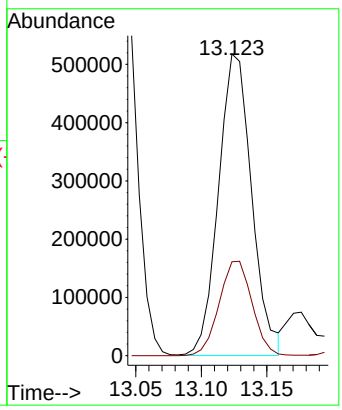




#79
2-Chlorotoluene
Concen: 91.785 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 91 Resp: 91261

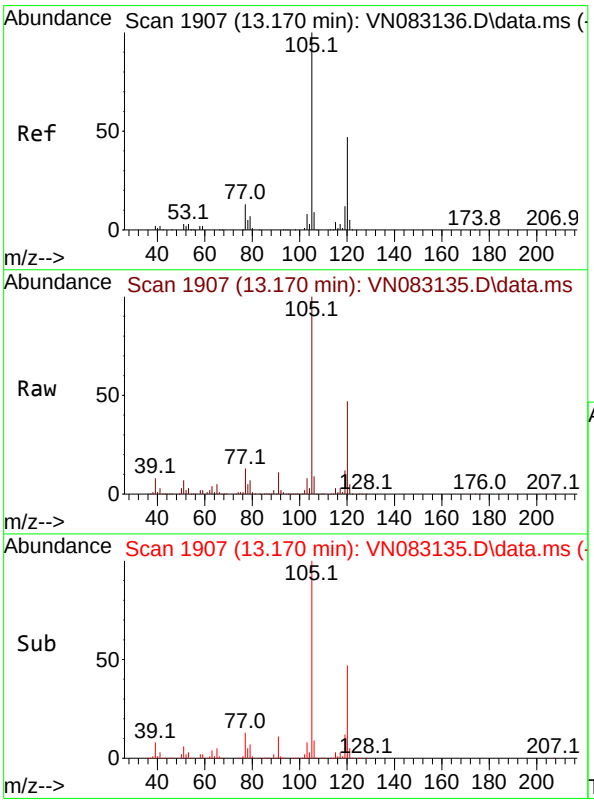
Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

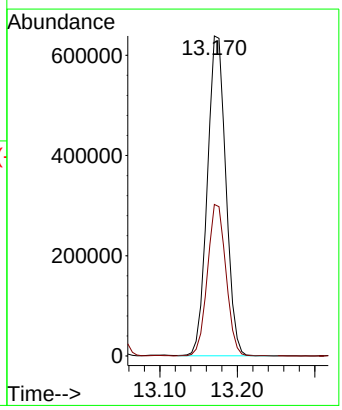
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

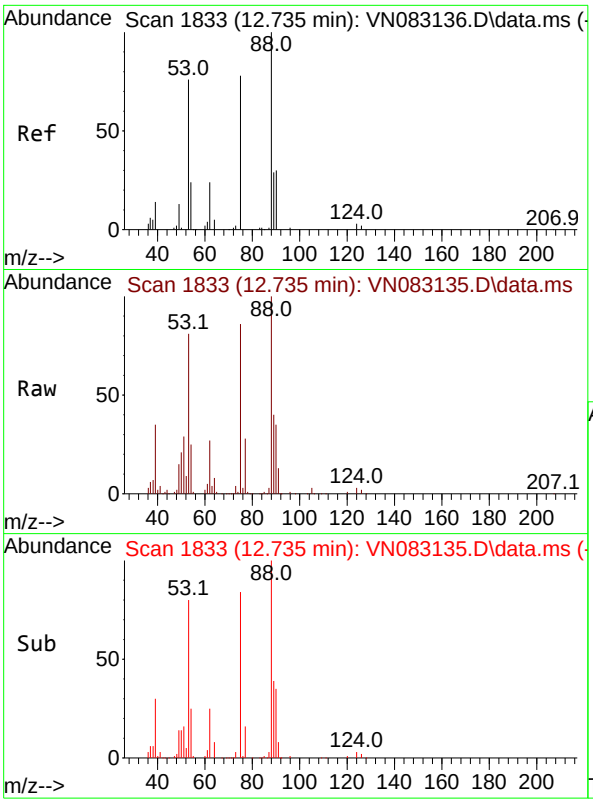


#80
1,3,5-Trimethylbenzene
Concen: 92.690 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:105 Resp: 1056912

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.3	72.8





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

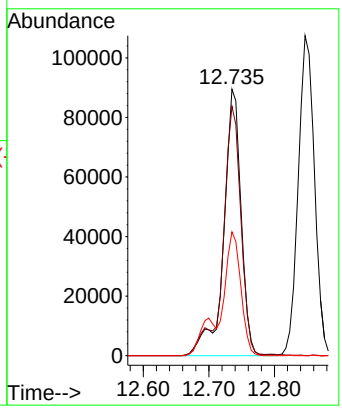
Tgt Ion: 75 Resp: 16532

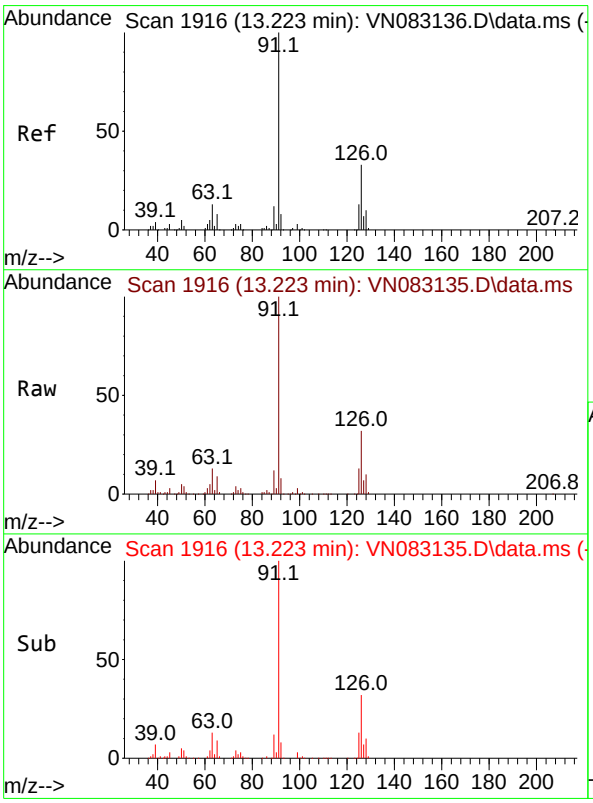
Ion	Ratio	Lower	Upper
75	100		
53	96.5	88.4	132.6
89	41.9	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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

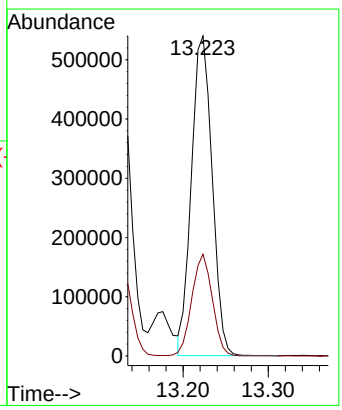


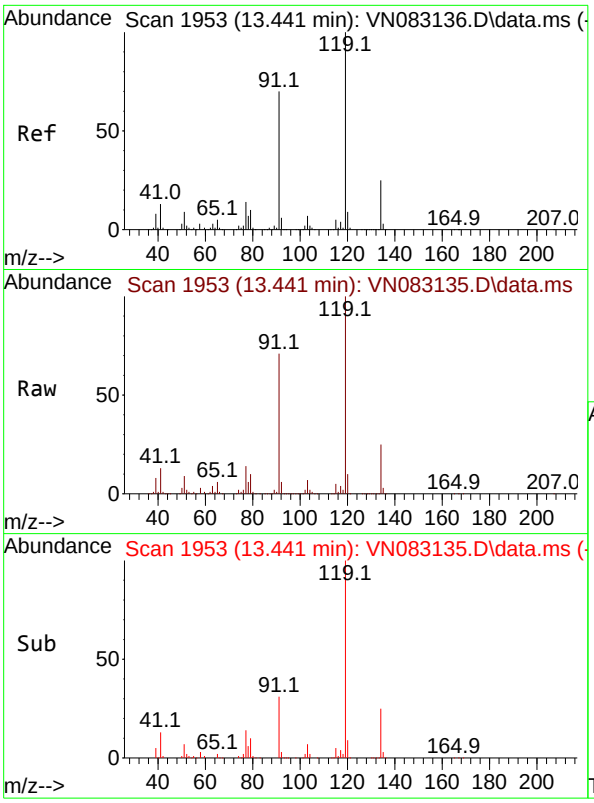


#82
4-Chlorotoluene
Concen: 91.381 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 91 Resp: 911384

Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.2	48.6





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

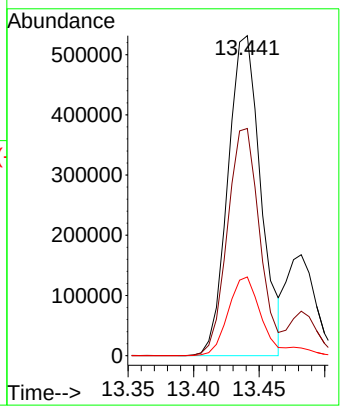
Tgt Ion:119 Resp: 92819

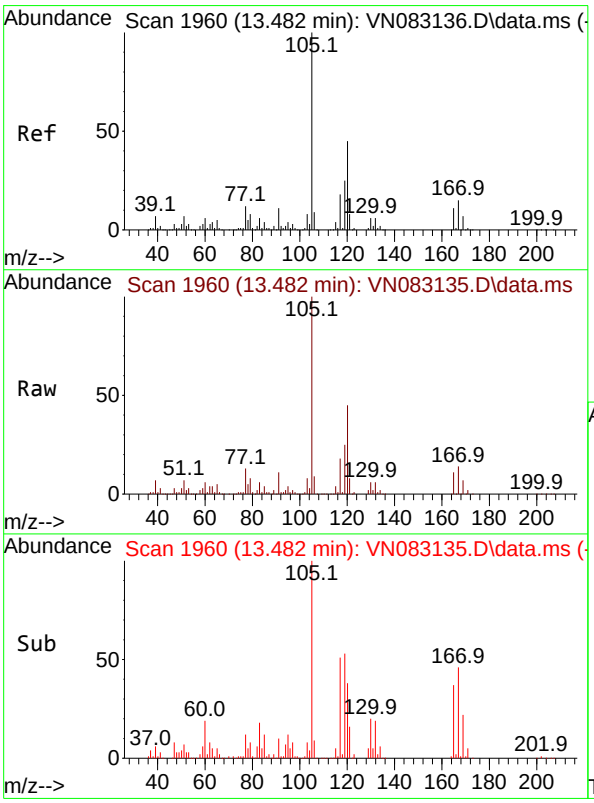
Ion	Ratio	Lower	Upper
119	100		
91	69.3	35.0	105.1
134	26.1	13.3	39.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

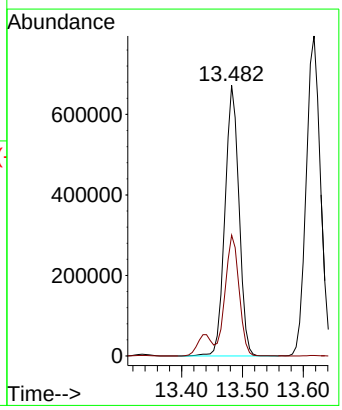


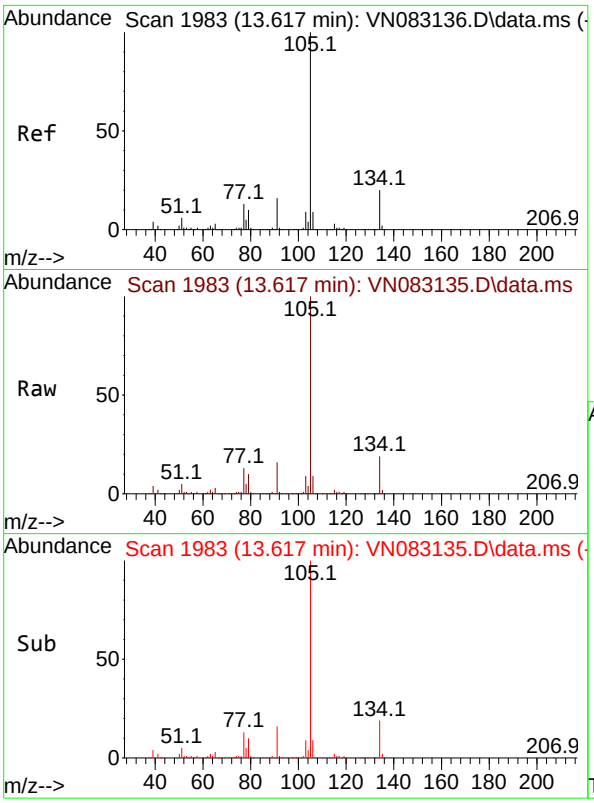


#84
1,2,4-Trimethylbenzene
Concen: 93.675 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:105 Resp: 1076449

Ion	Ratio	Lower	Upper
105	100		
120	44.4	21.9	65.8

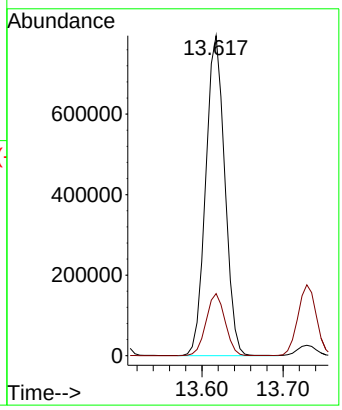




#85
sec-Butylbenzene
Concen: 93.978 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:105 Resp: 129490

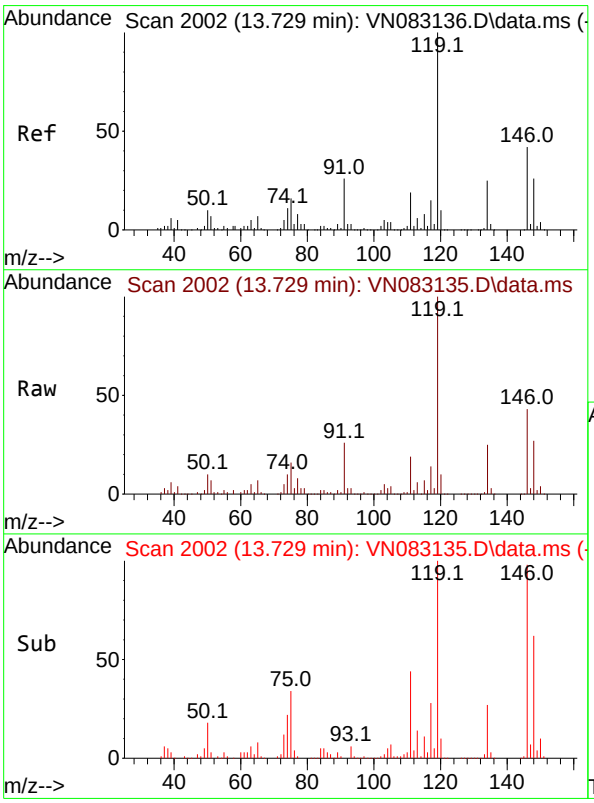
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

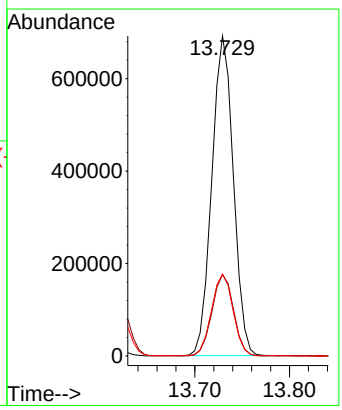
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

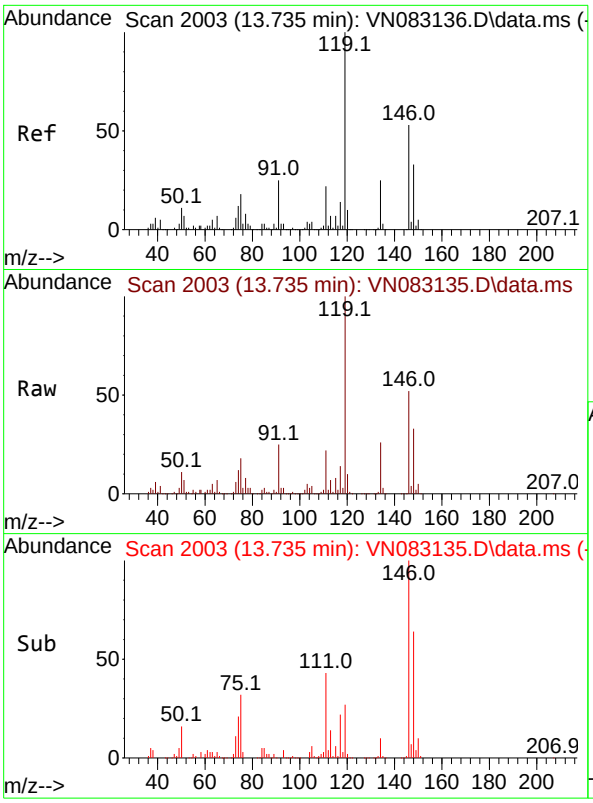


#86
p-Isopropyltoluene
Concen: 96.022 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:119 Resp: 1092439

Ion	Ratio	Lower	Upper
119	100		
134	25.5	13.0	39.0
91	25.5	12.3	36.9





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

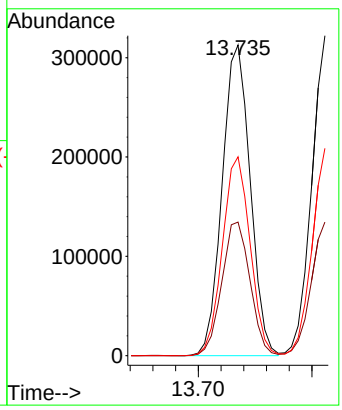
Tgt Ion:146 Resp: 53519

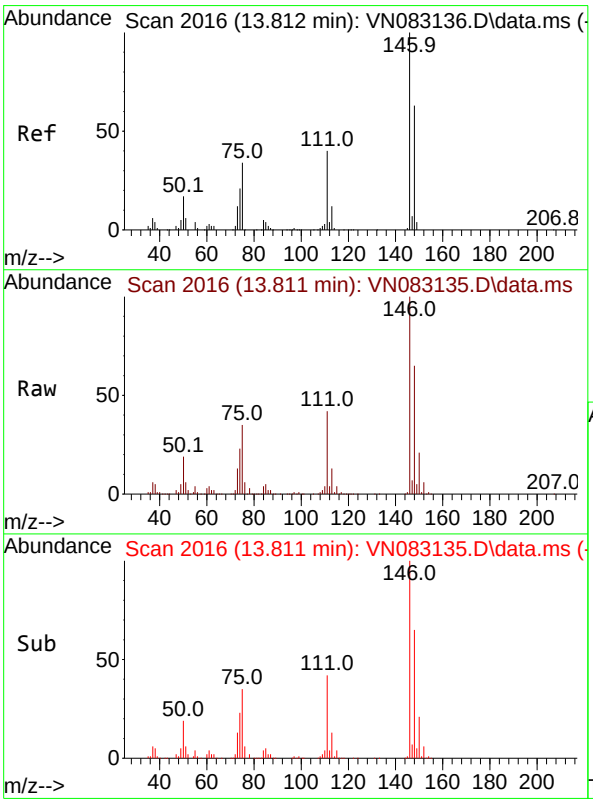
Ion	Ratio	Lower	Upper
146	100		
111	43.5	20.6	61.9
148	63.6	31.8	95.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

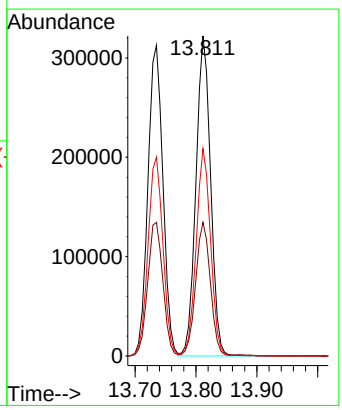


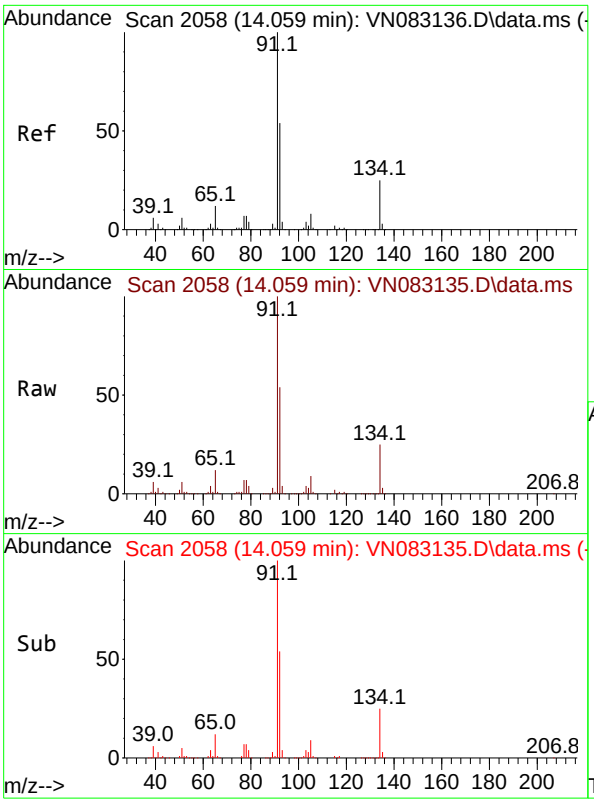


#88
1,4-Dichlorobenzene
Concen: 93.900 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:146 Resp: 538924

Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.1	60.3
148	63.6	32.2	96.6





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

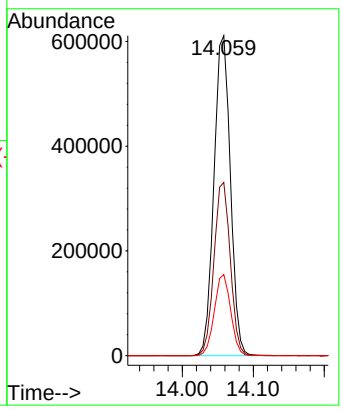
Tgt Ion: 91 Resp: 98048

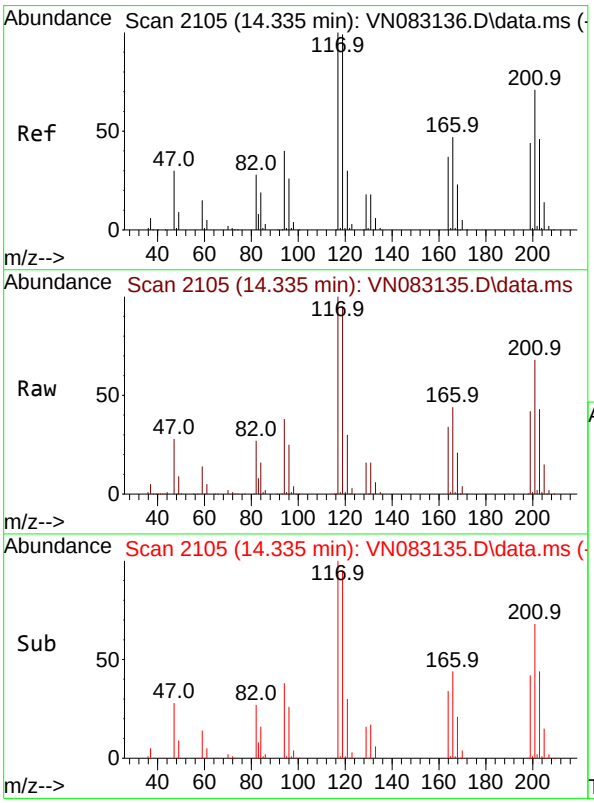
Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.1	78.3
134	25.2	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

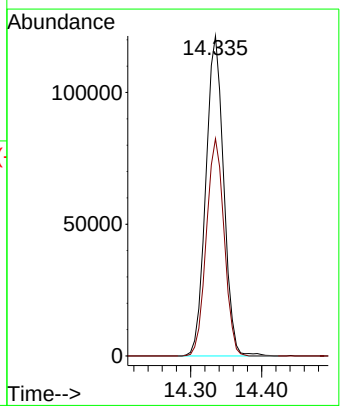


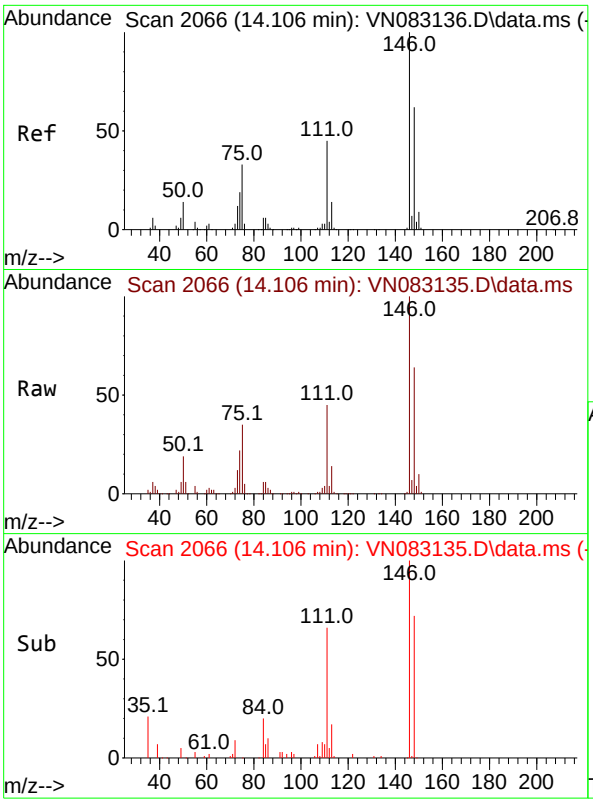


#90
Hexachloroethane
Concen: 96.320 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:117 Resp: 211710

Ion	Ratio	Lower	Upper
117	100		
201	67.7	35.8	107.3

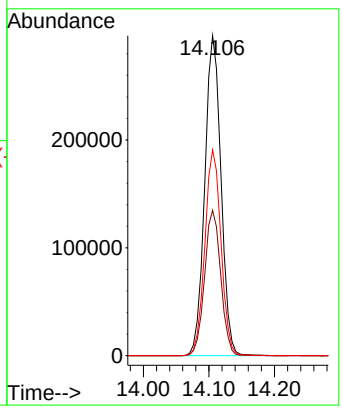




#91
1,2-Dichlorobenzene
Concen: 92.863 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:146 Resp: 51158

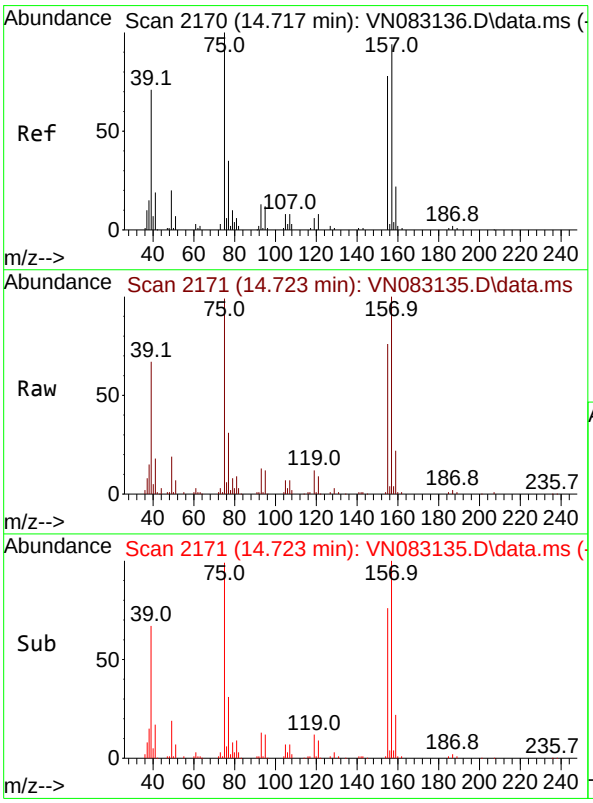
Ion	Ratio	Lower	Upper
146	100		
111	45.4	21.4	64.2
148	63.9	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

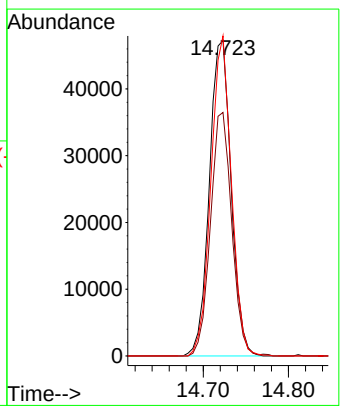
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

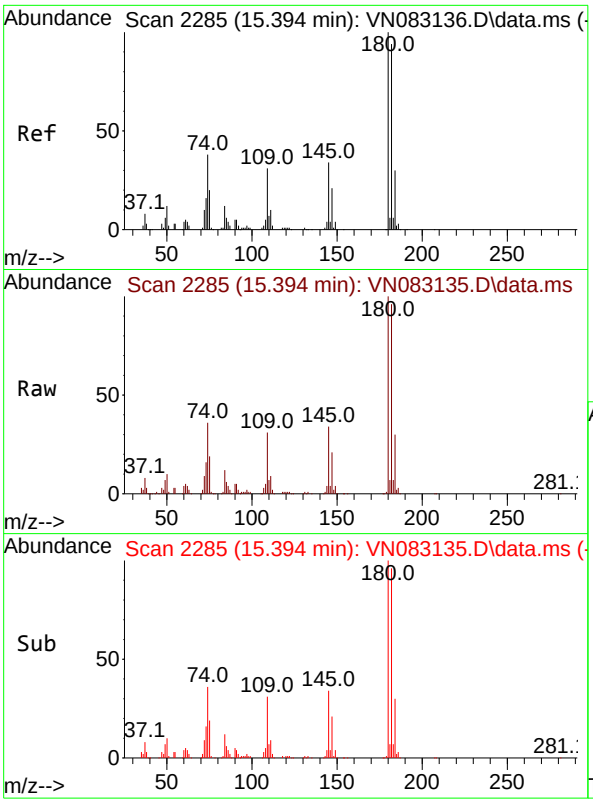


#92
1,2-Dibromo-3-Chloropropane
Concen: 89.788 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 75 Resp: 83930

Ion	Ratio	Lower	Upper
75	100		
155	75.2	36.6	109.8
157	95.1	46.9	140.6

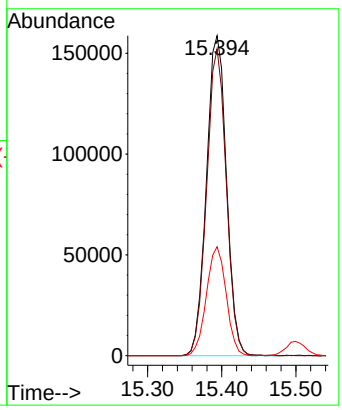




#93
1,2,4-Trichlorobenzene
Concen: 96.456 ug/l
RT: 15.394 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:180 Resp: 29769

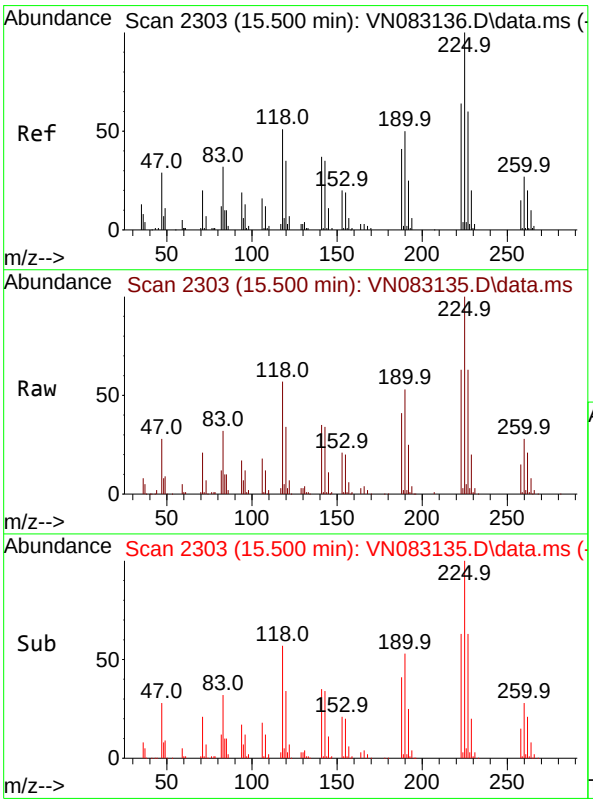
Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.3	141.8
145	33.6	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

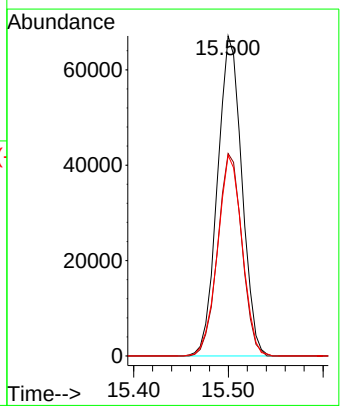
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

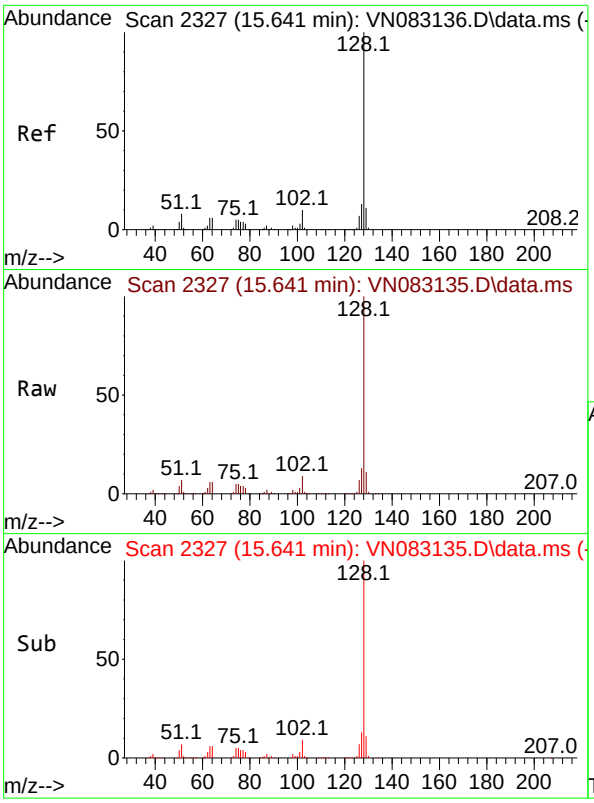


#94
Hexachlorobutadiene
Concen: 87.268 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:225 Resp: 119783

Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.9	95.7
227	63.3	32.5	97.5

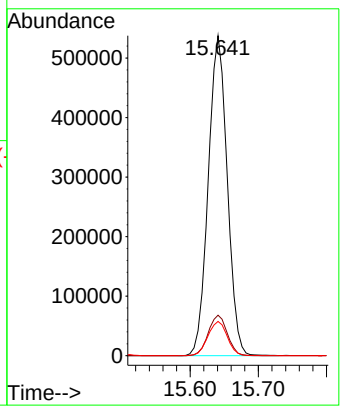




#95
Naphthalene
Concen: 95.391 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:128 Resp: 104286

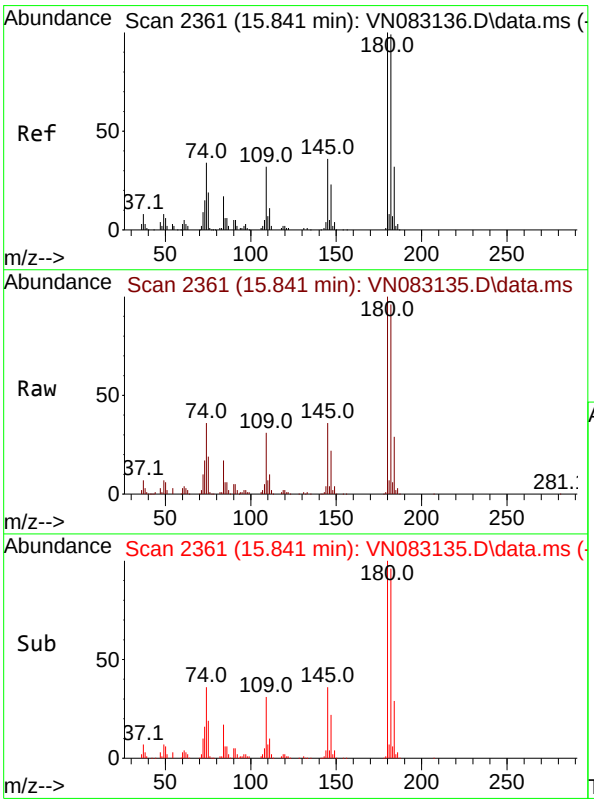
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.6	16.0
129	10.9	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

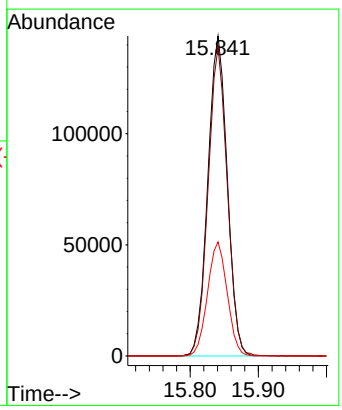
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



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

Tgt Ion:180 Resp: 285769

Ion	Ratio	Lower	Upper
180	100		
182	95.1	48.9	146.8
145	36.0	16.8	50.4



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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

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

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

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

ICAL Form

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

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

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

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

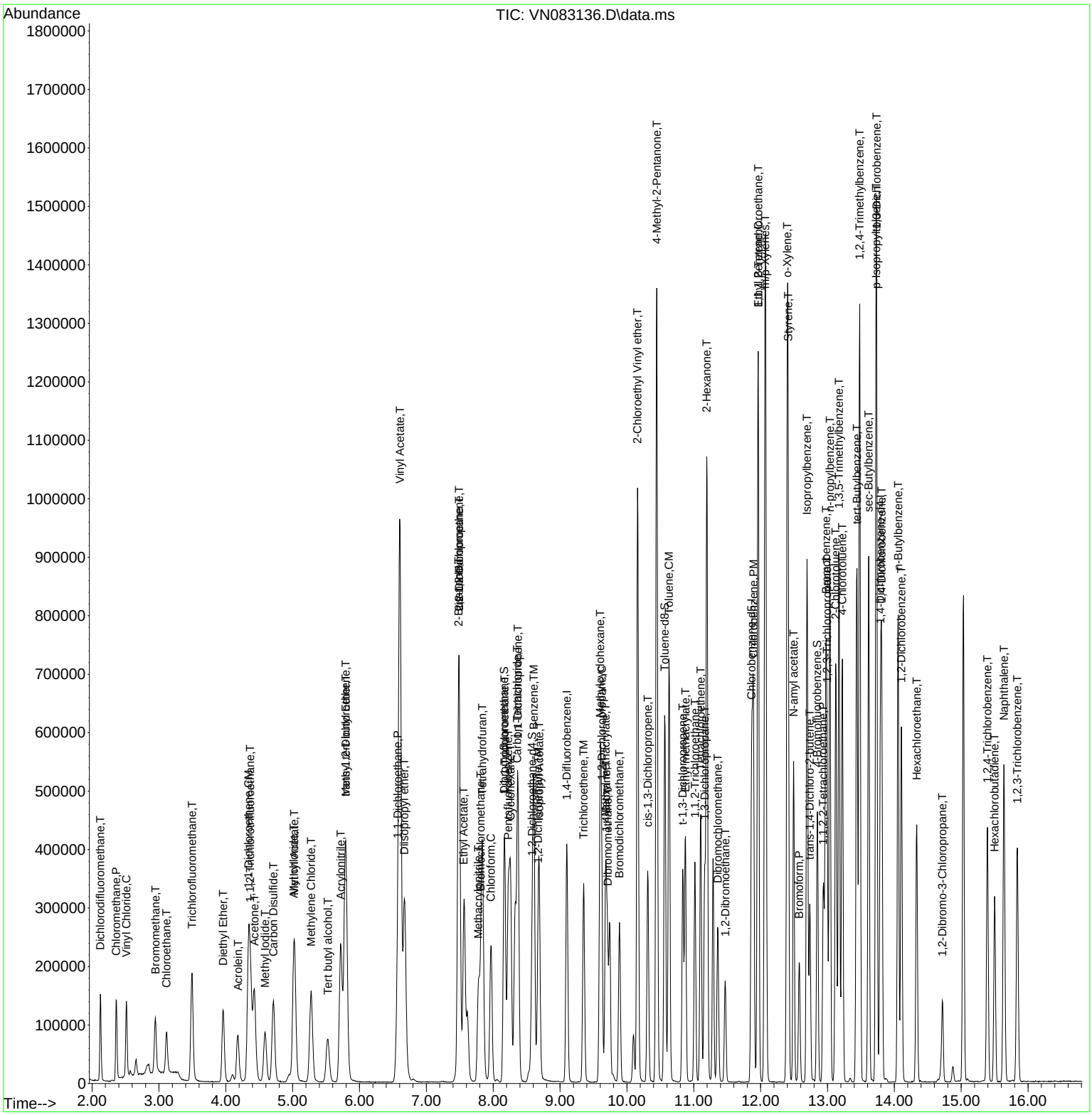
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Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

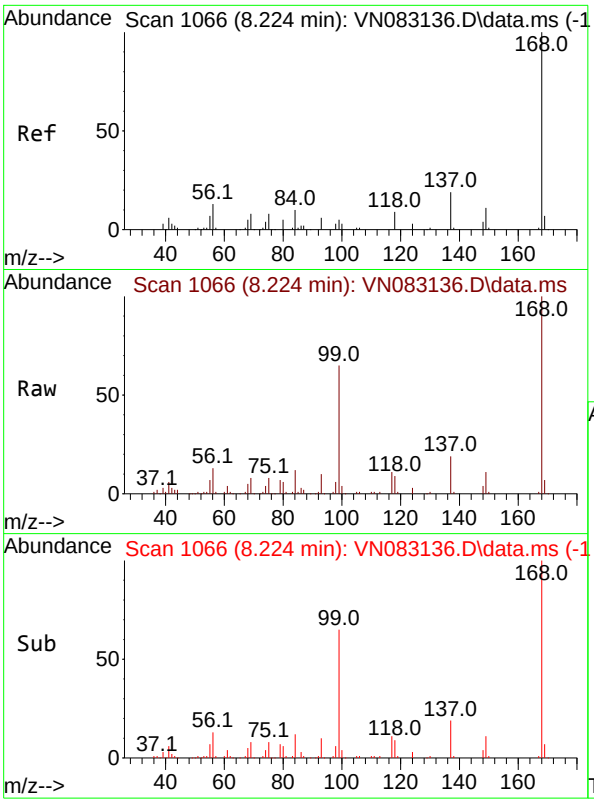
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Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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





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

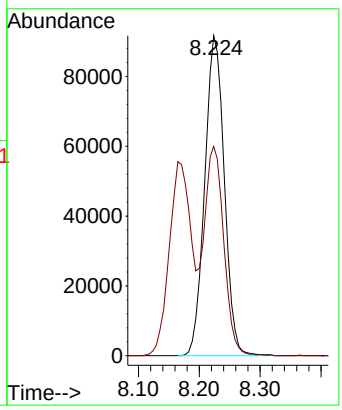
Tgt Ion:168 Resp: 20491

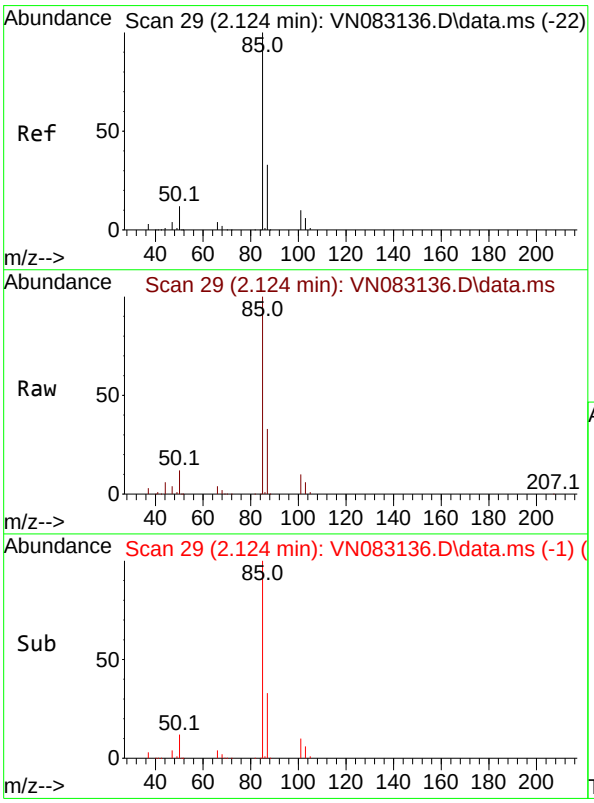
Ion	Ratio	Lower	Upper
168	100		
99	65.4	48.2	72.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

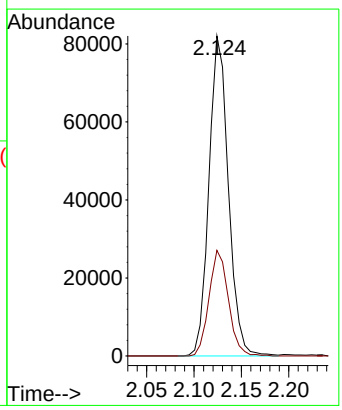


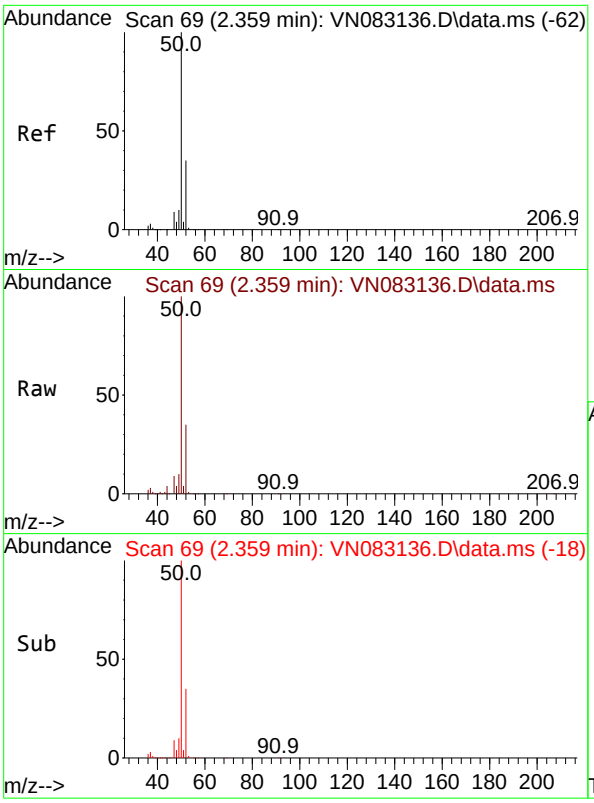


#2
Dichlorodifluoromethane
Concen: 50.312 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 85 Resp: 116913

Ion	Ratio	Lower	Upper
85	100		
87	33.0	15.7	47.0

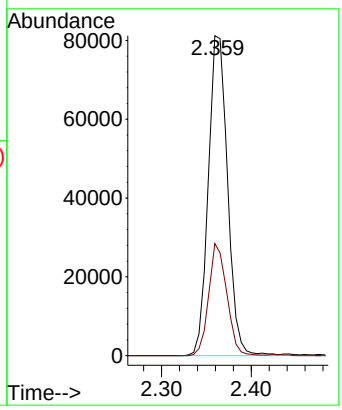




#3
Chloromethane
Concen: 50.915 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 50 Resp: 12113

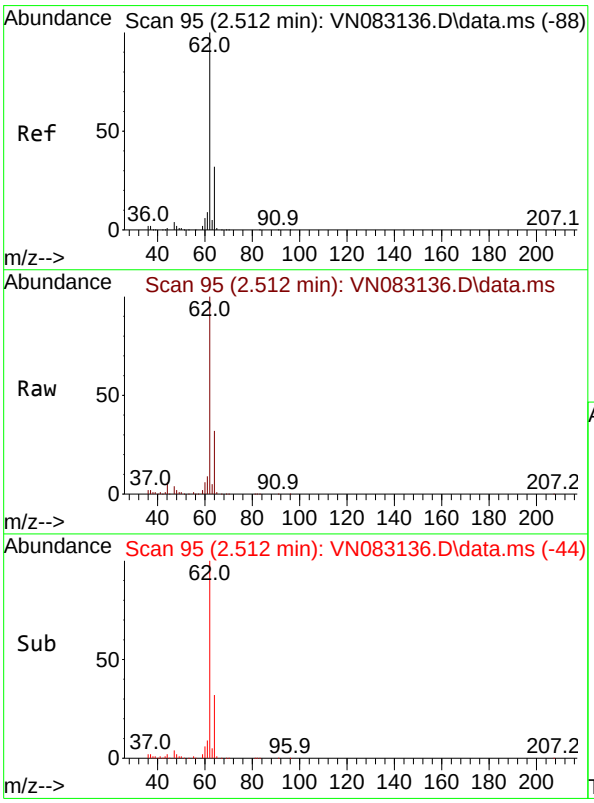
Ion	Ratio	Lower	Upper
50	100		
52	35.1	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

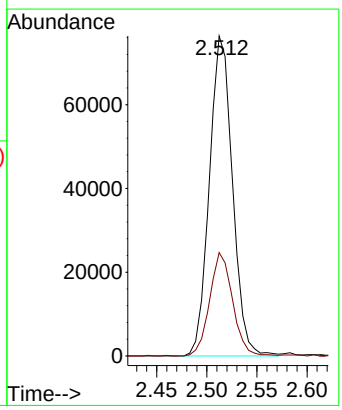
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

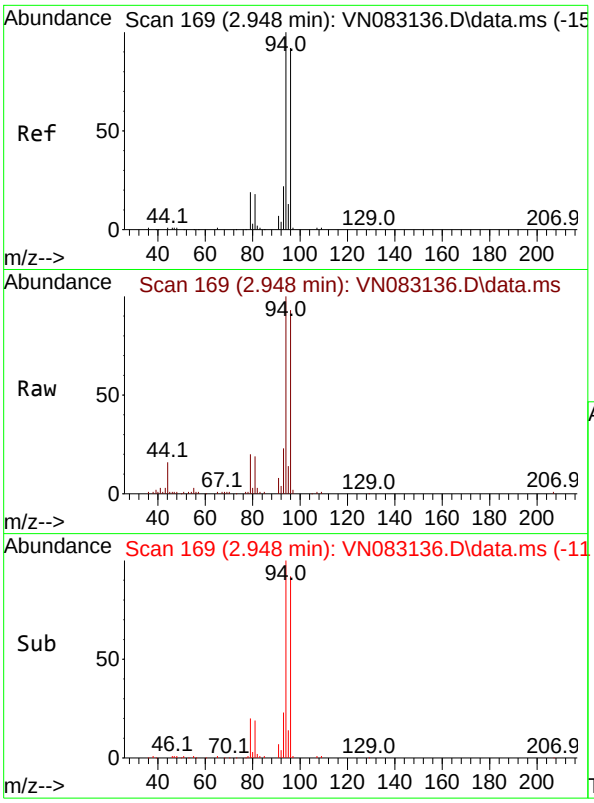


#4
Vinyl Chloride
Concen: 50.482 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 62 Resp: 122548

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.0	37.6

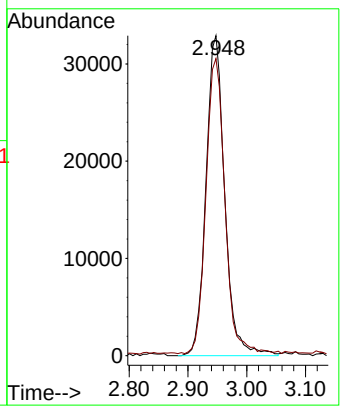




#5
Bromomethane
Concen: 48.538 ug/l
RT: 2.948 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 94 Resp: 7311

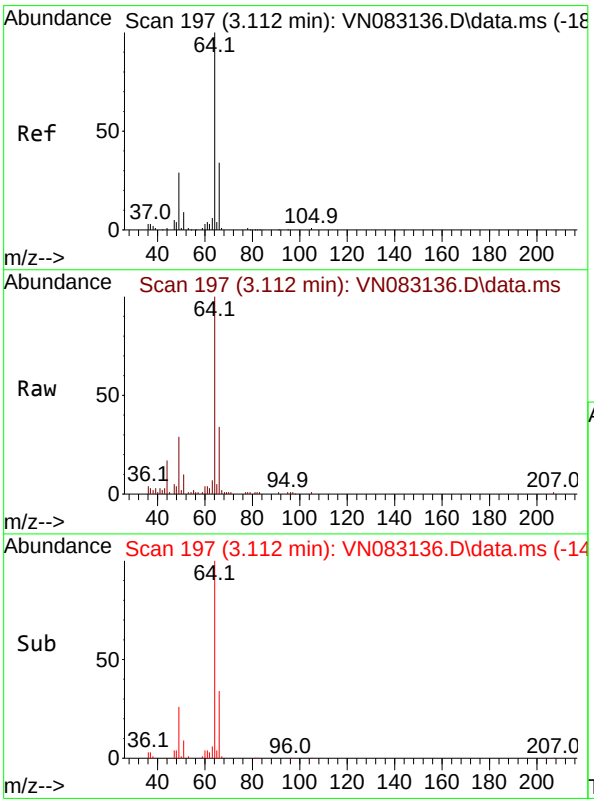
Ion	Ratio	Lower	Upper
94	100		
96	92.2	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

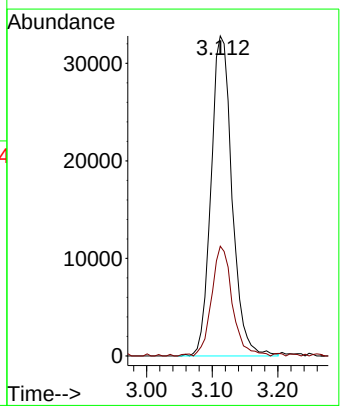
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

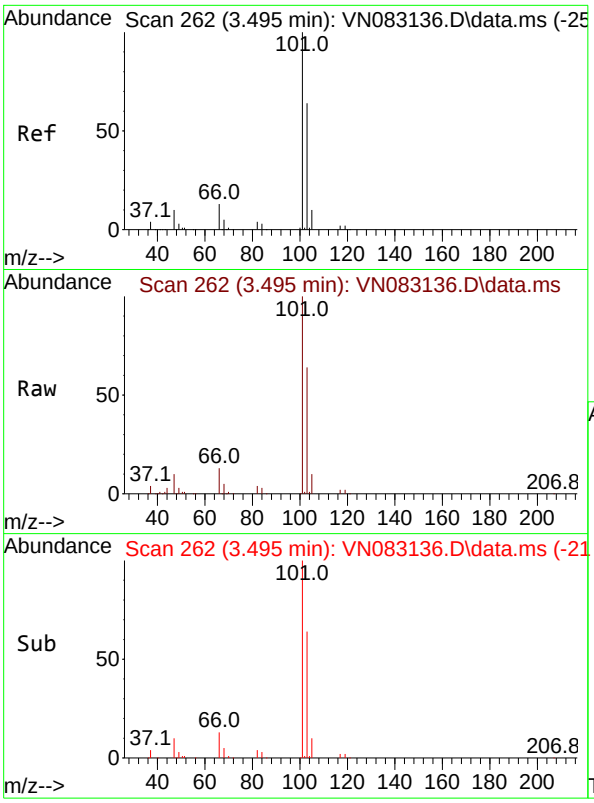


#6
Chloroethane
Concen: 48.043 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 64 Resp: 72966

Ion	Ratio	Lower	Upper
64	100		
66	34.3	26.6	40.0





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

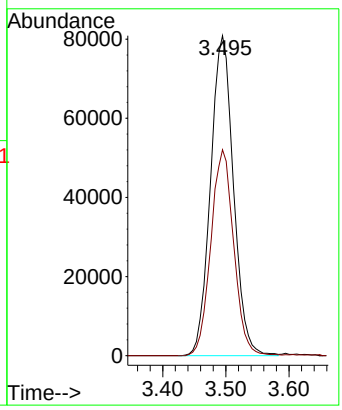
Tgt Ion:101 Resp: 20384

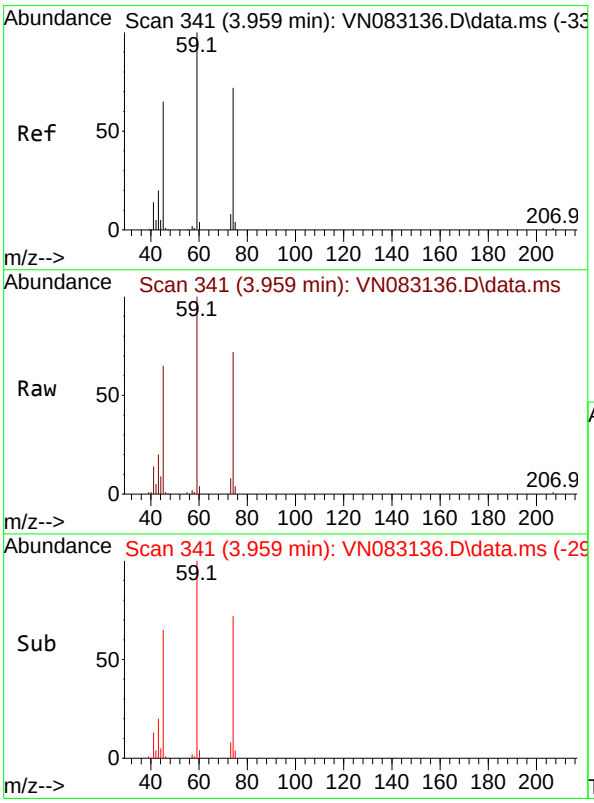
Ion	Ratio	Lower	Upper
101	100		
103	64.3	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

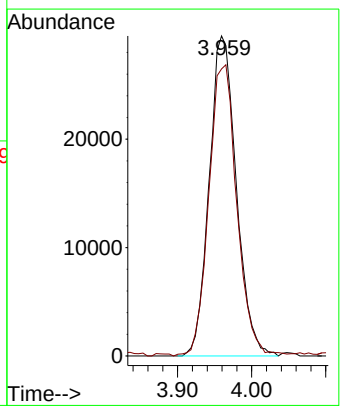


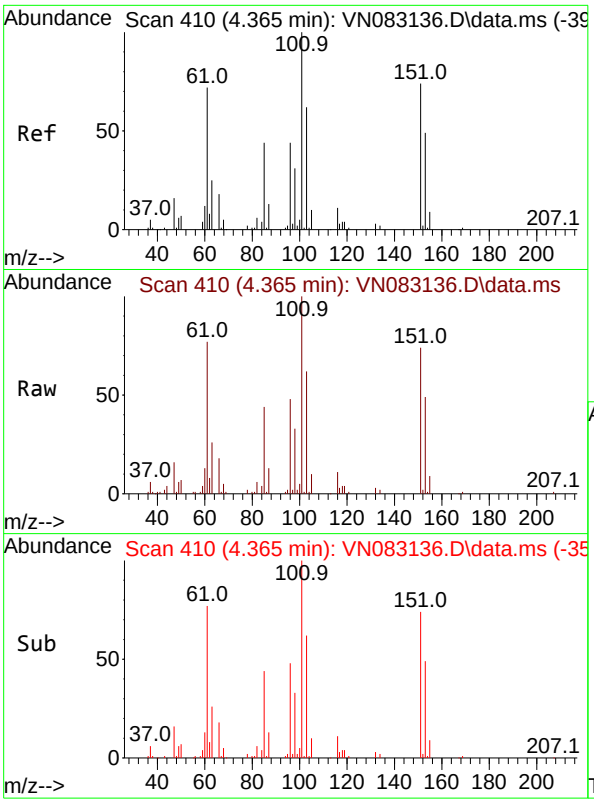


#8
Diethyl Ether
Concen: 50.318 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 74 Resp: 75087

Ion	Ratio	Lower	Upper
74	100		
45	94.0	55.5	166.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.747 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

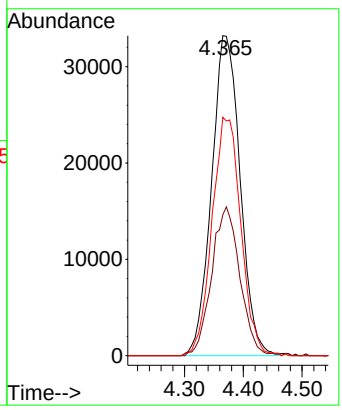
Tgt Ion:101 Resp: 11220

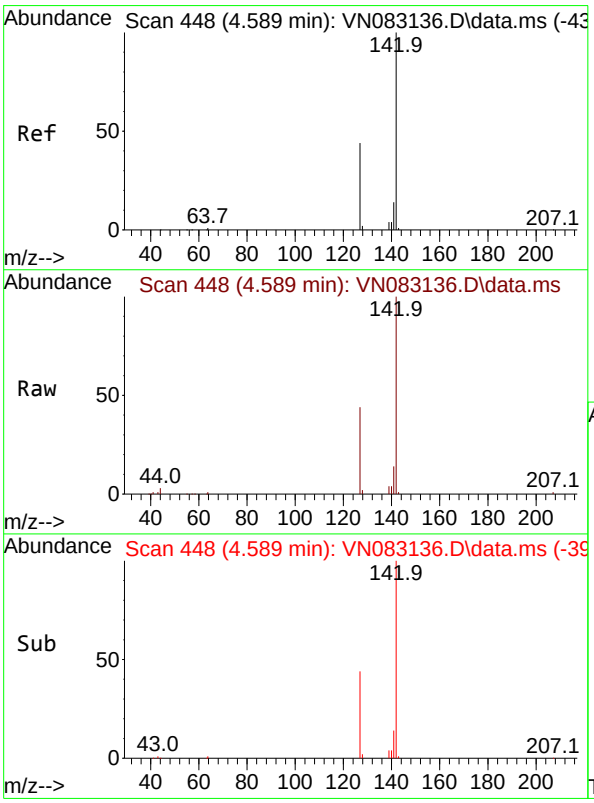
Ion	Ratio	Lower	Upper
101	100		
85	45.9	38.3	57.5
151	75.1	59.3	88.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

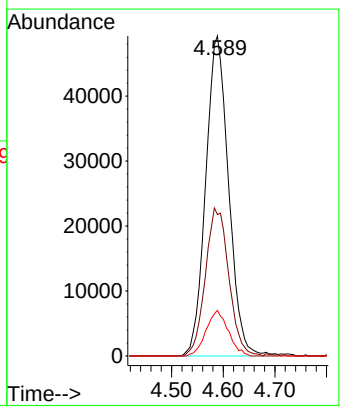


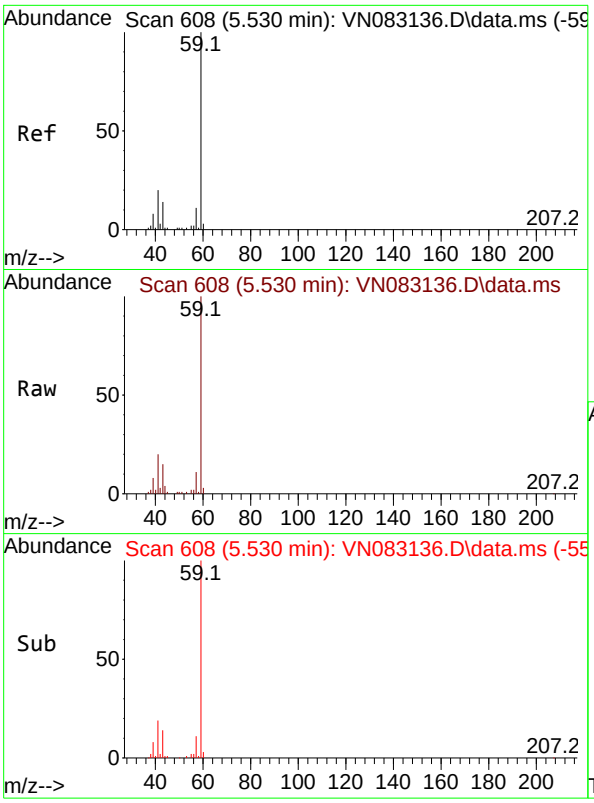


#10
Methyl Iodide
Concen: 52.170 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:142 Resp: 151731

Ion	Ratio	Lower	Upper
142	100		
127	44.2	37.5	56.3
141	14.3	13.1	19.7

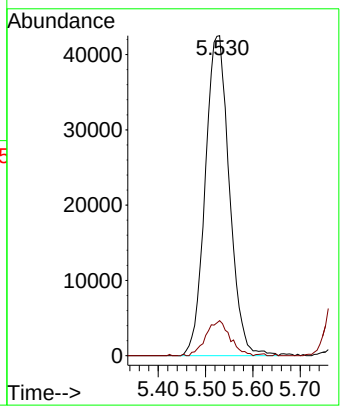




#11
Tert butyl alcohol
Concen: 247.904 ug/l
RT: 5.530 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 59 Resp: 15026

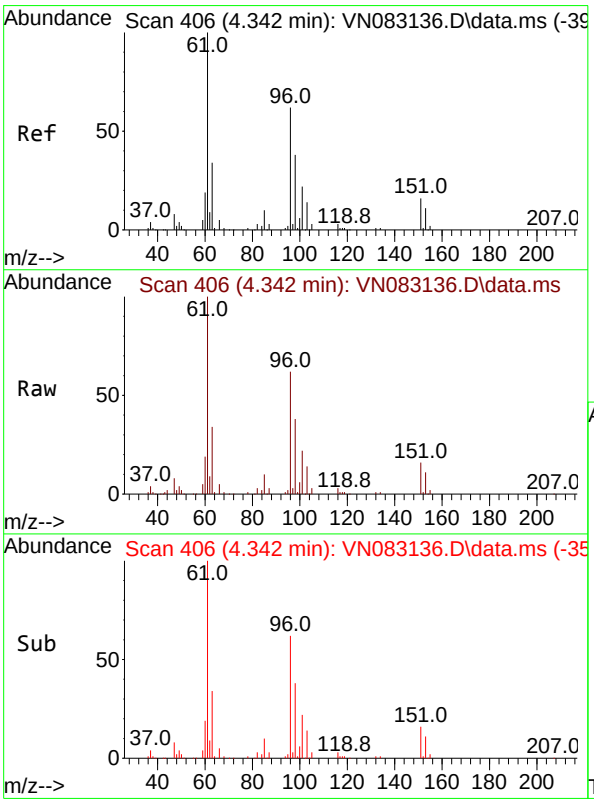
Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

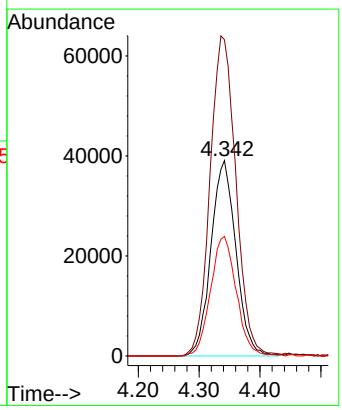
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

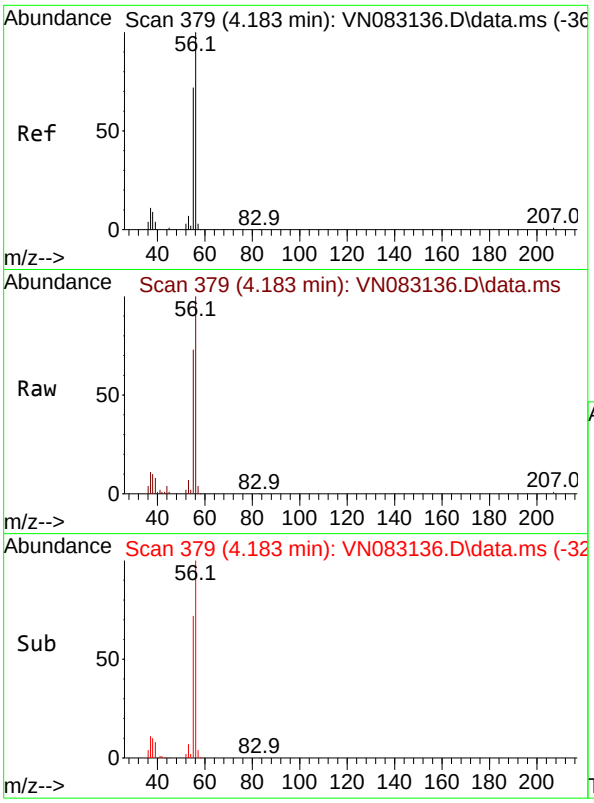


#12
1,1-Dichloroethene
Concen: 49.114 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 96 Resp: 111564

Ion	Ratio	Lower	Upper
96	100		
61	162.0	149.7	224.5
98	61.2	50.1	75.1

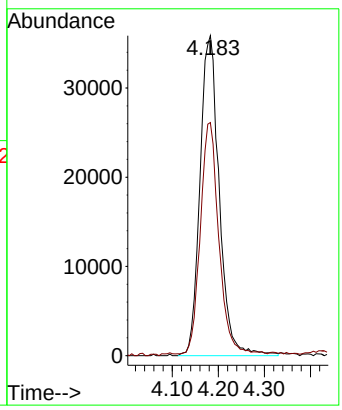




#13
Acrolein
Concen: 263.954 ug/l
RT: 4.183 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 56 Resp: 10427

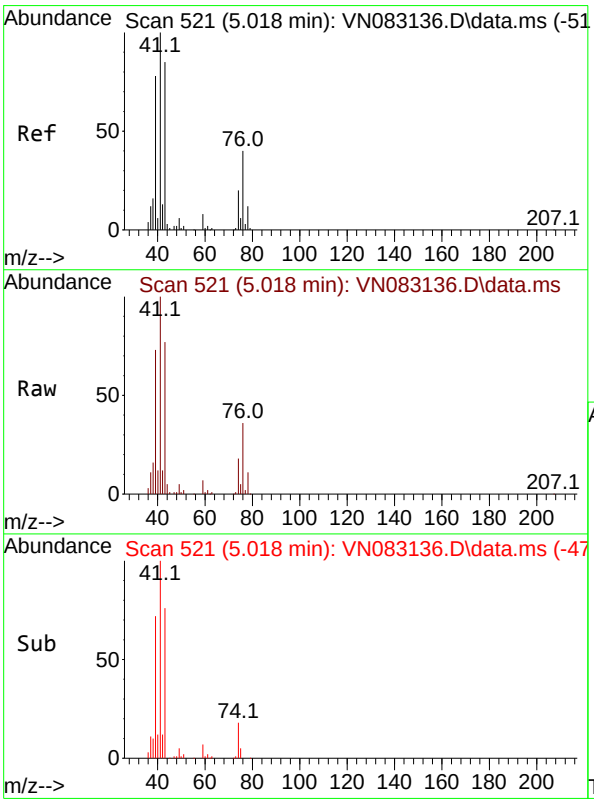
Ion	Ratio	Lower	Upper
56	100		
55	68.8	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

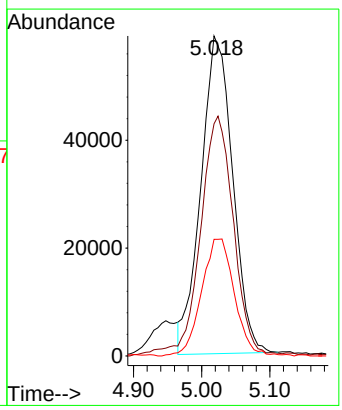
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

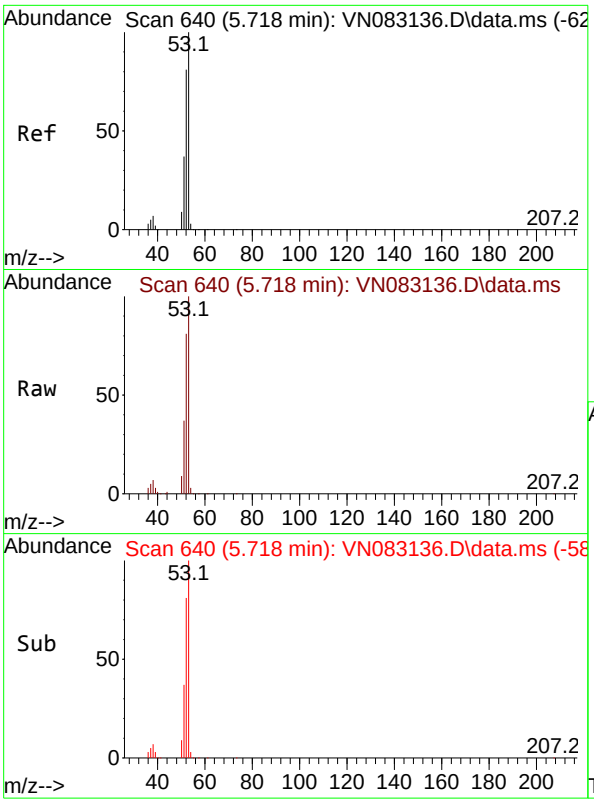


#14
Allyl chloride
Concen: 44.541 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 41 Resp: 191195

Ion	Ratio	Lower	Upper
41	100		
39	78.9	67.8	101.6
76	38.1	25.8	38.8

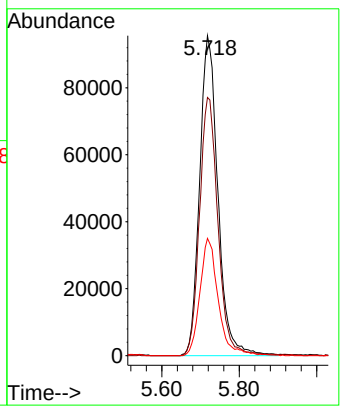




#15
Acrylonitrile
Concen: 251.149 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 53 Resp: 31309

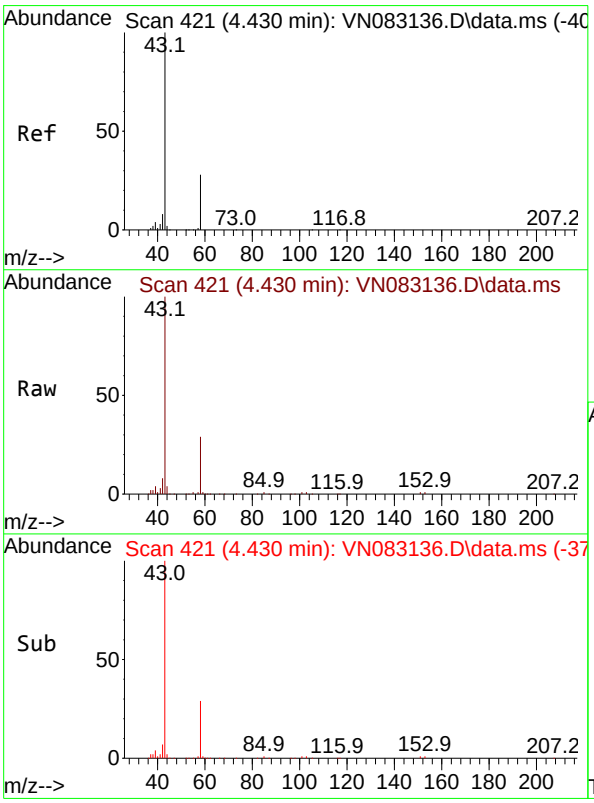
Ion	Ratio	Lower	Upper
53	100		
52	81.2	66.6	100.0
51	36.5	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

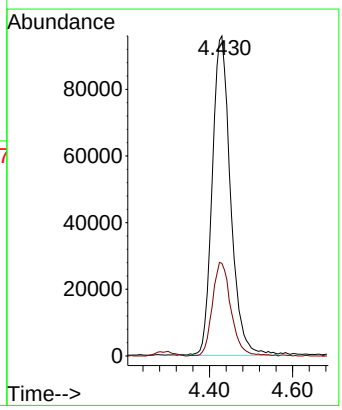
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

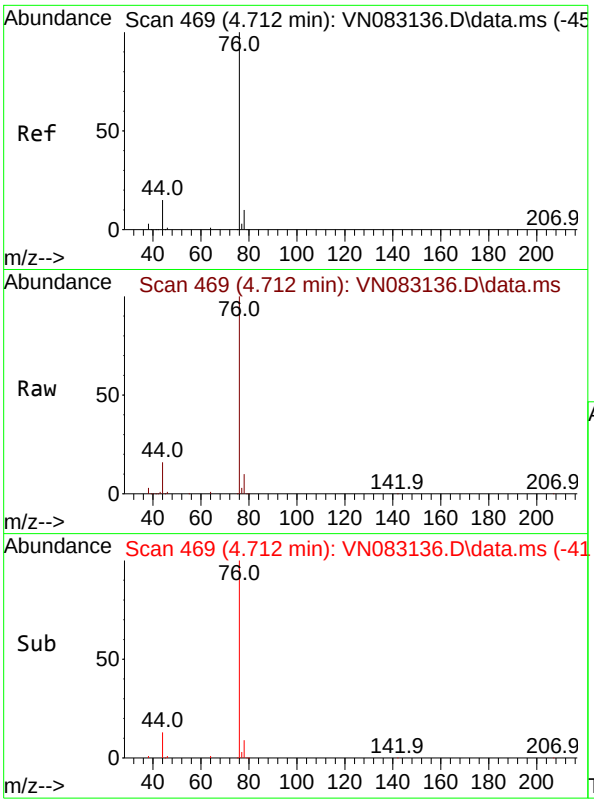


#16
Acetone
Concen: 256.804 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 293091

Ion	Ratio	Lower	Upper
43	100		
58	29.0	21.8	32.6

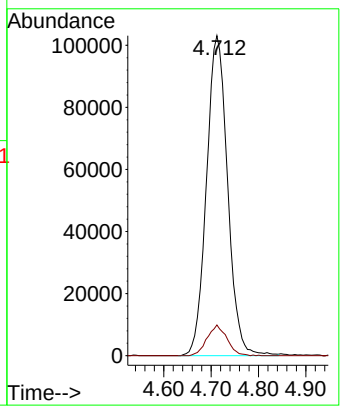




#17
Carbon Disulfide
Concen: 48.094 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 76 Resp: 31965

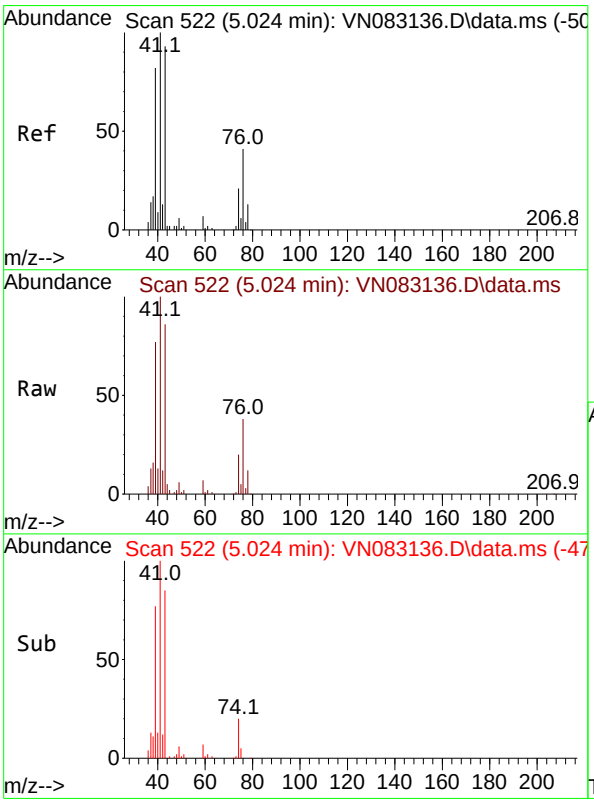
Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

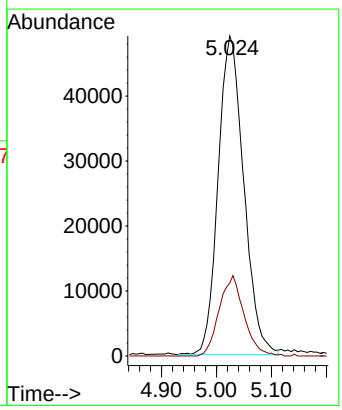
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

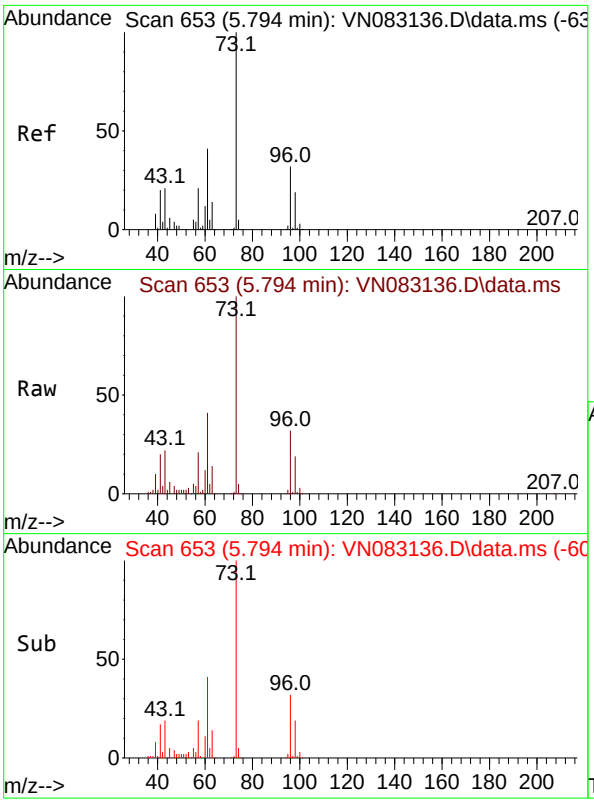


#18
Methyl Acetate
Concen: 46.765 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 159022

Ion	Ratio	Lower	Upper
43	100		
74	24.3	16.3	24.5

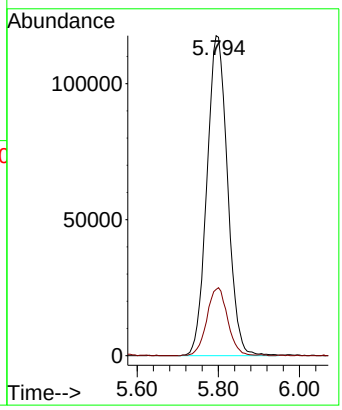




#19
Methyl tert-butyl Ether
Concen: 50.676 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 73 Resp: 41548

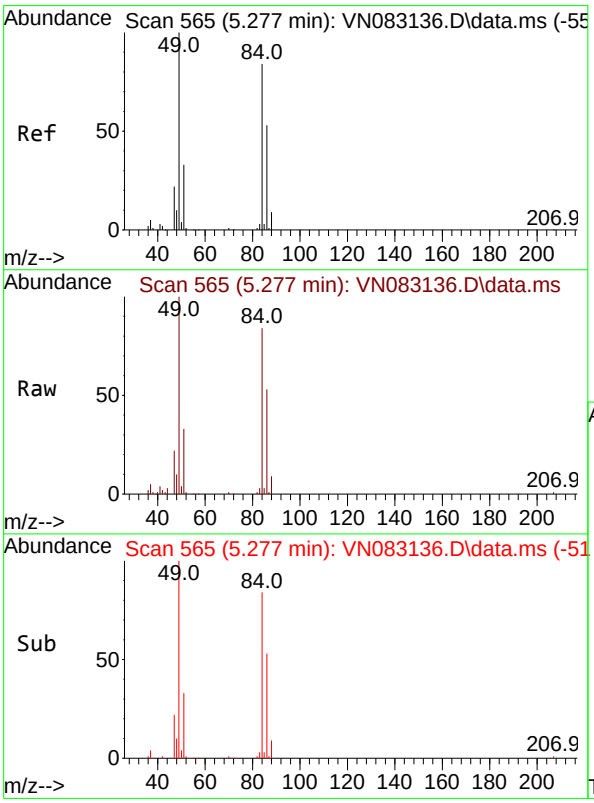
Ion	Ratio	Lower	Upper
73	100		
57	20.7	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

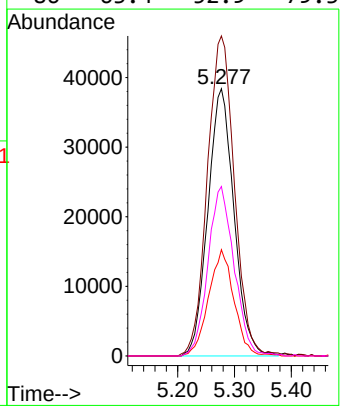
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

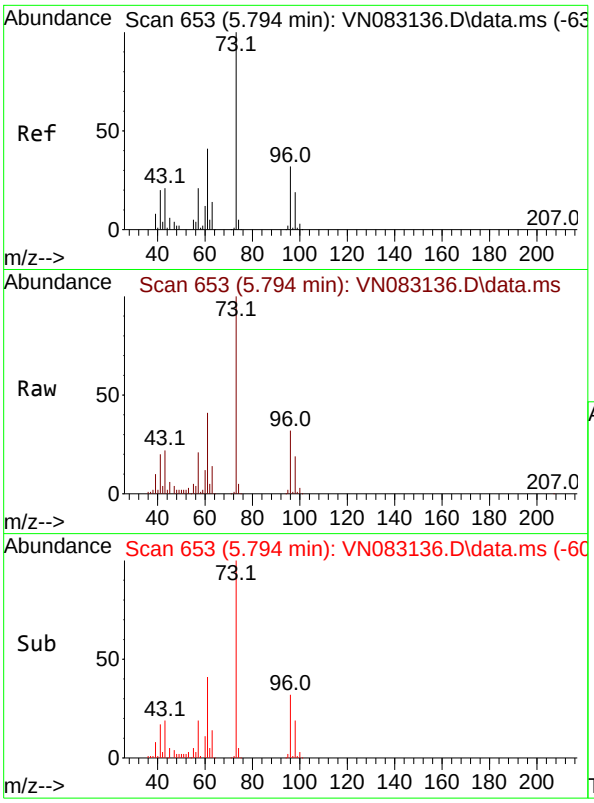


#20
Methylene Chloride
Concen: 46.744 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 84 Resp: 122780

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

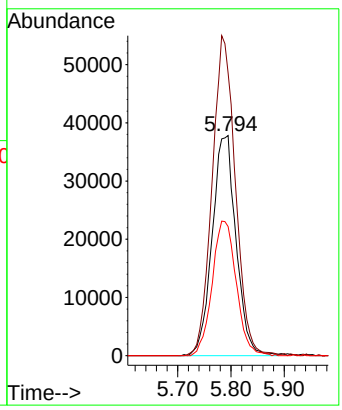




#21
trans-1,2-Dichloroethene
Concen: 50.127 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 96 Resp: 11768

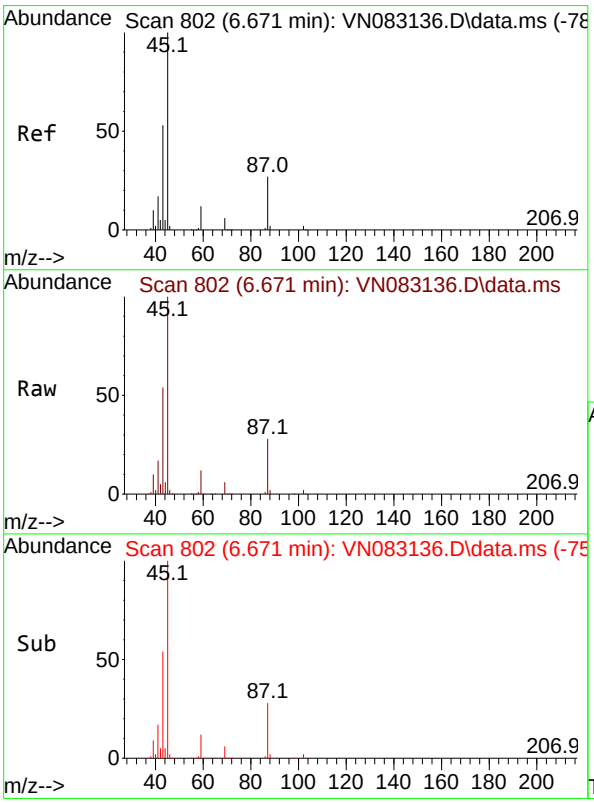
Ion	Ratio	Lower	Upper
96	100		
61	128.4	123.4	185.2
98	58.7	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

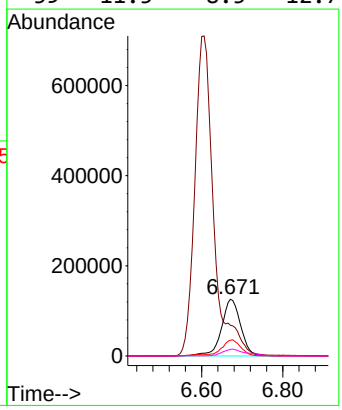
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

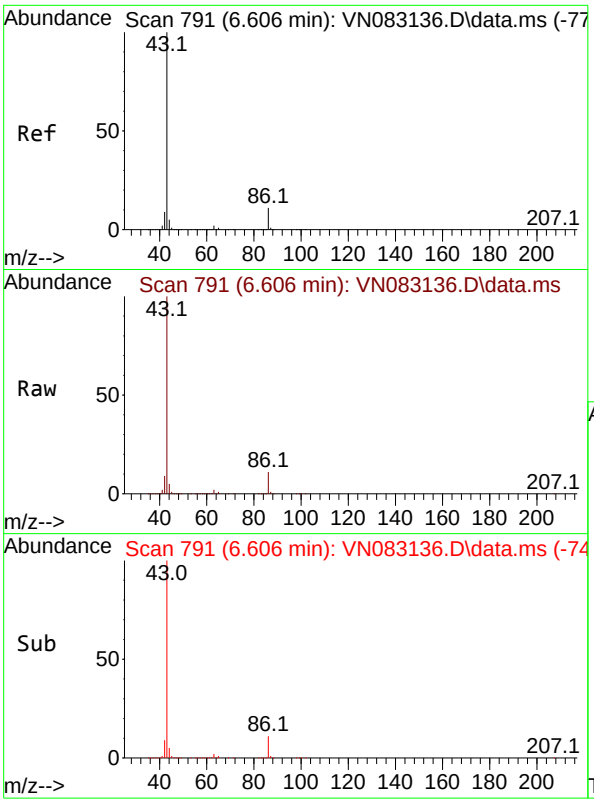


#22
Diisopropyl ether
Concen: 50.987 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 45 Resp: 411409

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

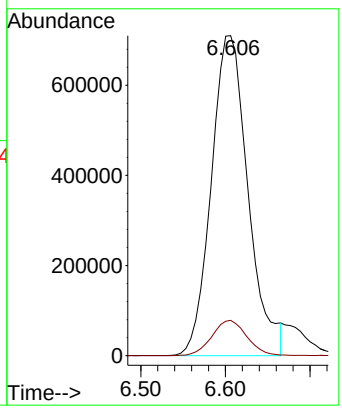




#23
Vinyl Acetate
Concen: 259.716 ug/l m
RT: 6.606 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 214759

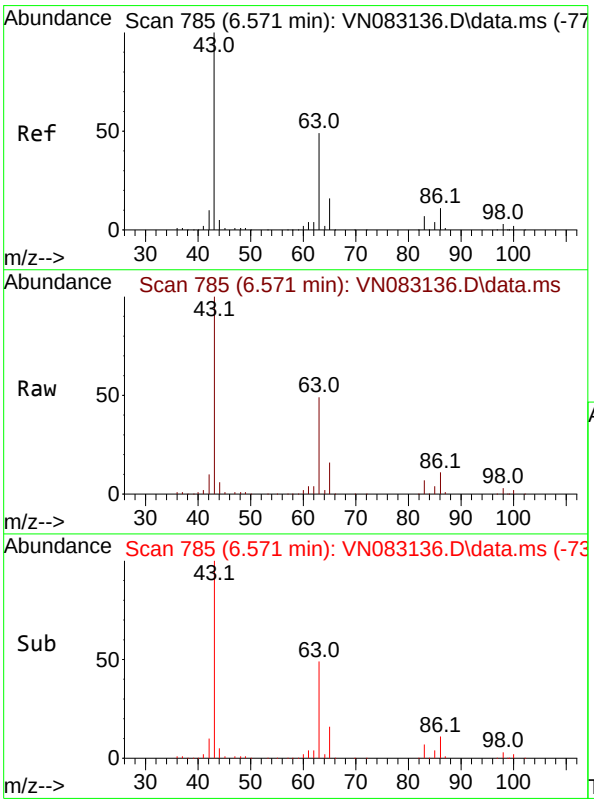
Ion	Ratio	Lower	Upper
43	100		
86	11.0	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

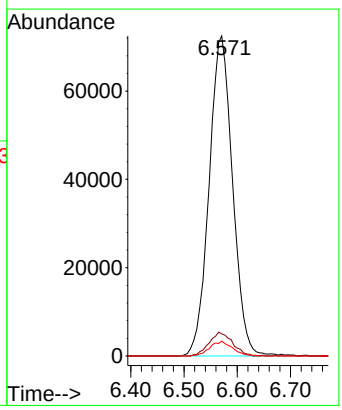
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

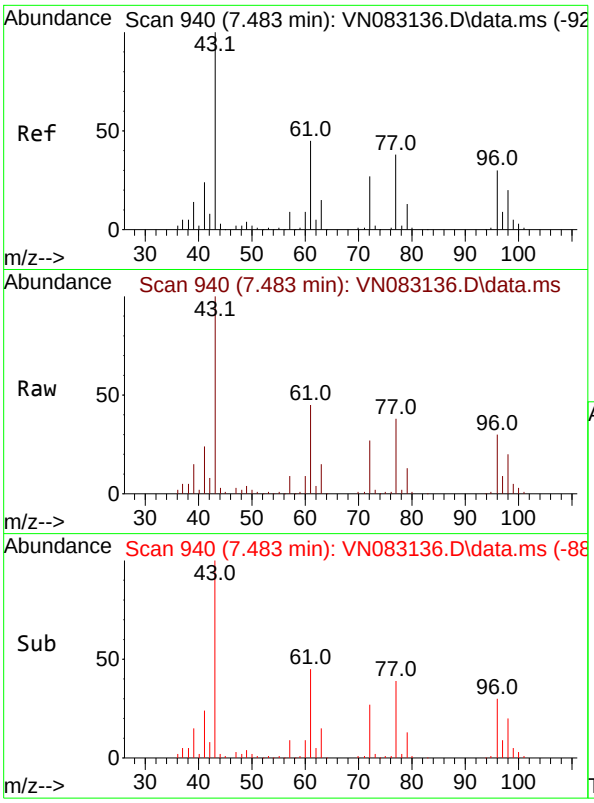


#24
1,1-Dichloroethane
Concen: 50.493 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 63 Resp: 222071

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.3	9.9
100	4.6	2.0	6.0





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

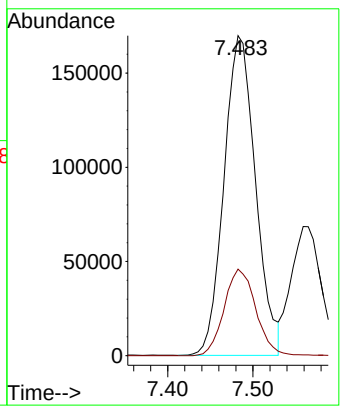
Tgt Ion: 43 Resp: 43739

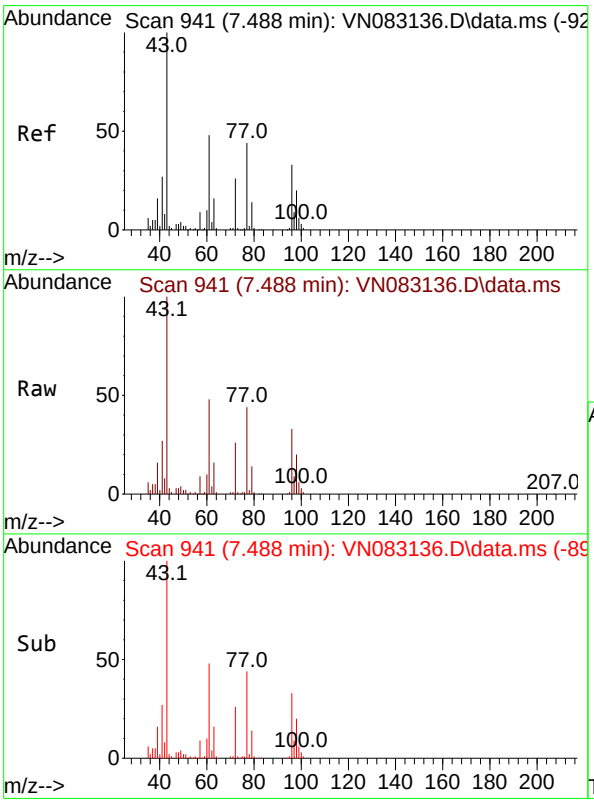
Ion	Ratio	Lower	Upper
43	100		
72	27.1	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

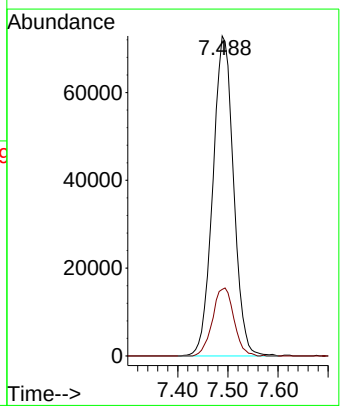


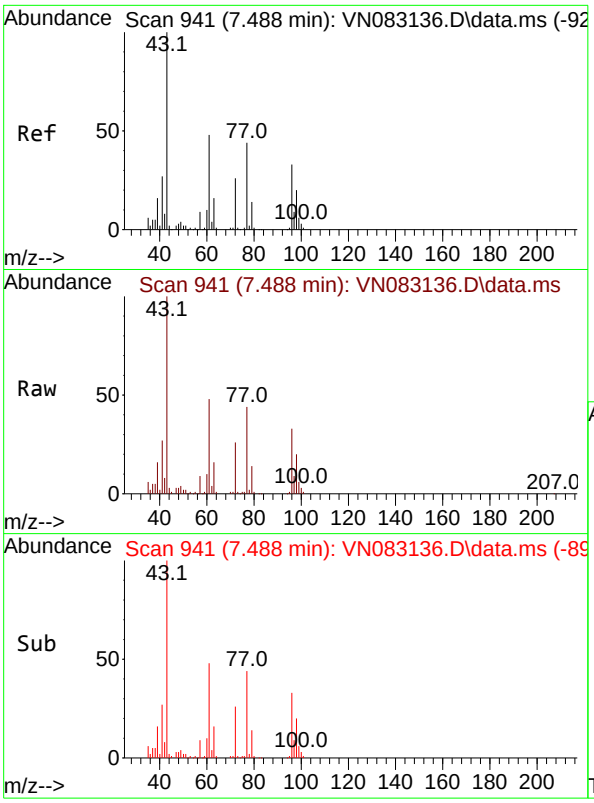


#26
2,2-Dichloropropane
Concen: 51.336 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 77 Resp: 209679

Ion	Ratio	Lower	Upper
77	100		
97	21.9	10.3	30.9





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

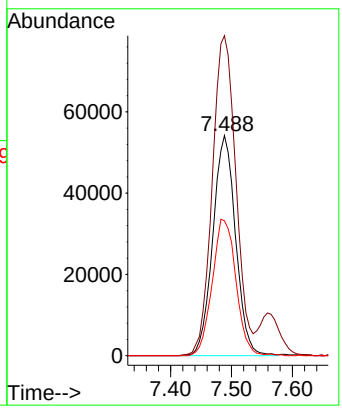
Tgt Ion: 96 Resp: 14111

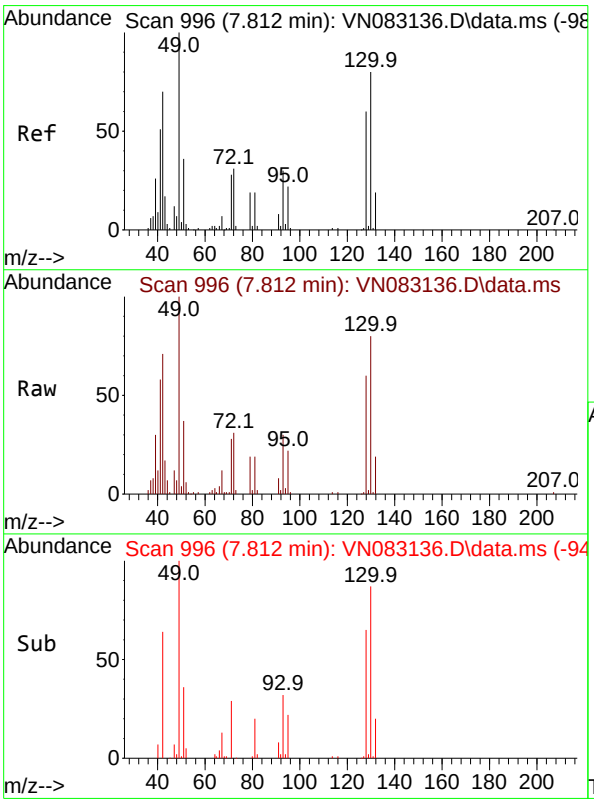
Ion	Ratio	Lower	Upper
96	100		
61	150.4	0.0	329.6
98	64.5	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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

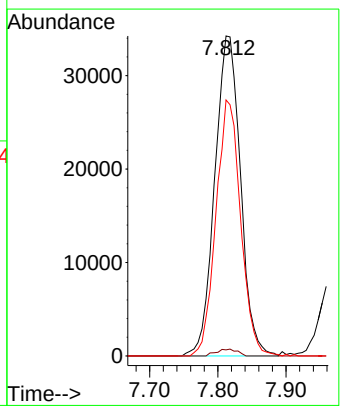


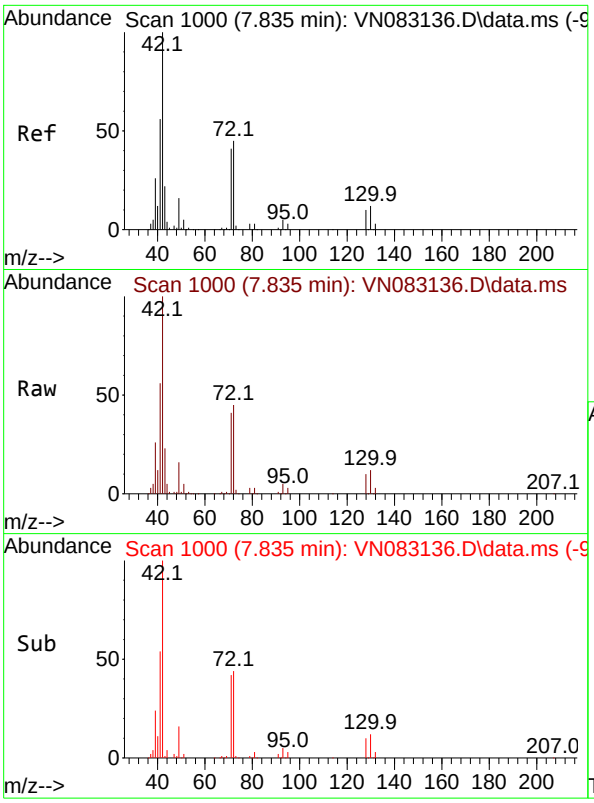


#28
Bromochloromethane
Concen: 50.041 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 49 Resp: 89942

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	76.7	50.5	75.7#

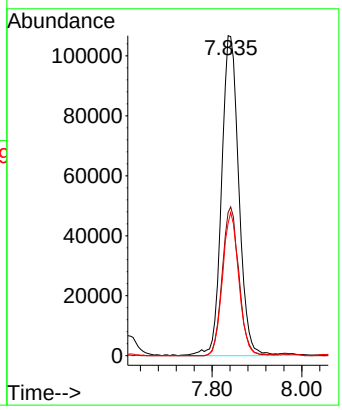




#29
Tetrahydrofuran
Concen: 252.334 ug/l
RT: 7.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 42 Resp: 28585

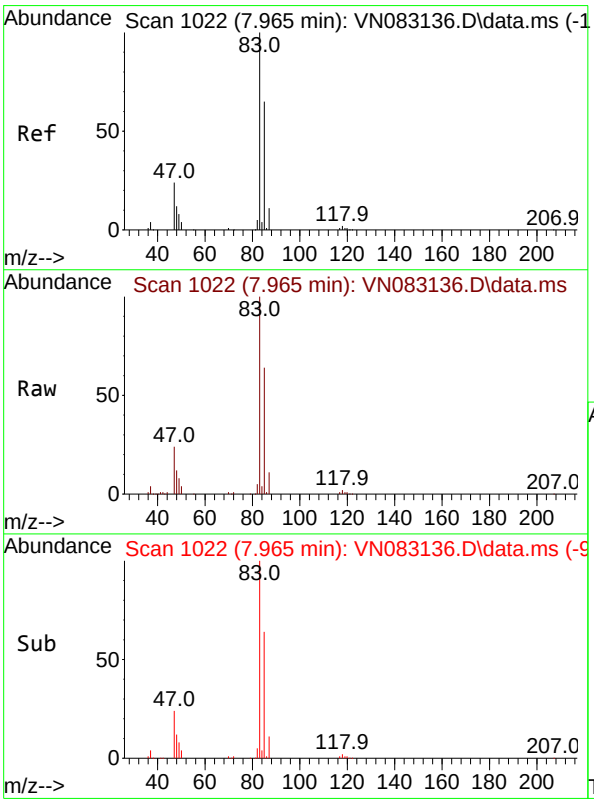
Ion	Ratio	Lower	Upper
42	100		
72	44.6	30.0	45.0
71	42.4	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

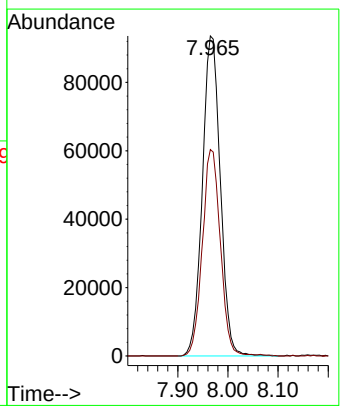
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

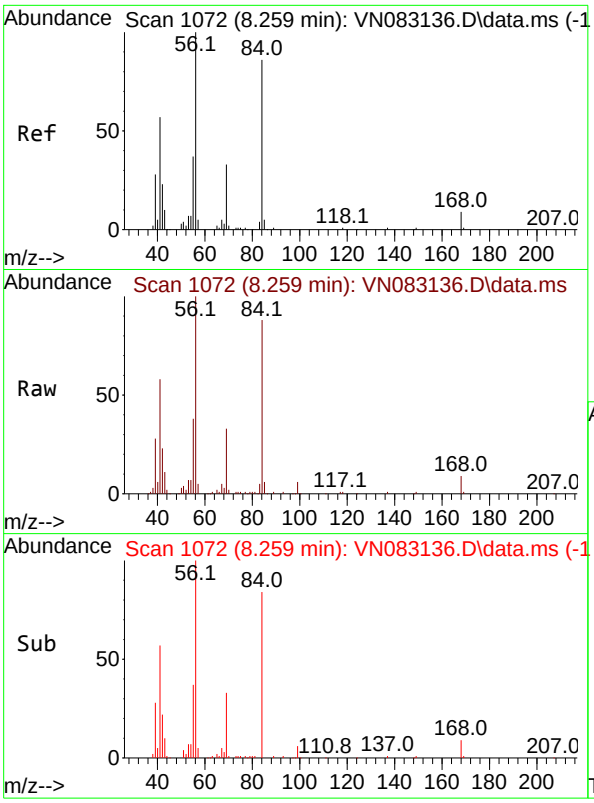


#30
Chloroform
Concen: 50.978 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 83 Resp: 232933

Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.9	76.3

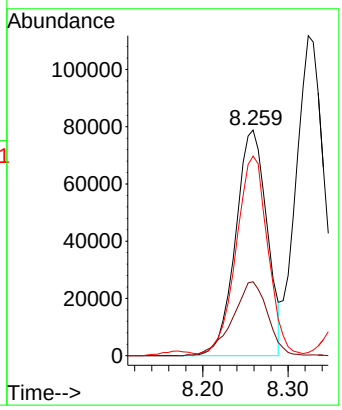




#31
Cyclohexane
Concen: 46.565 ug/l
RT: 8.259 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 56 Resp: 20127

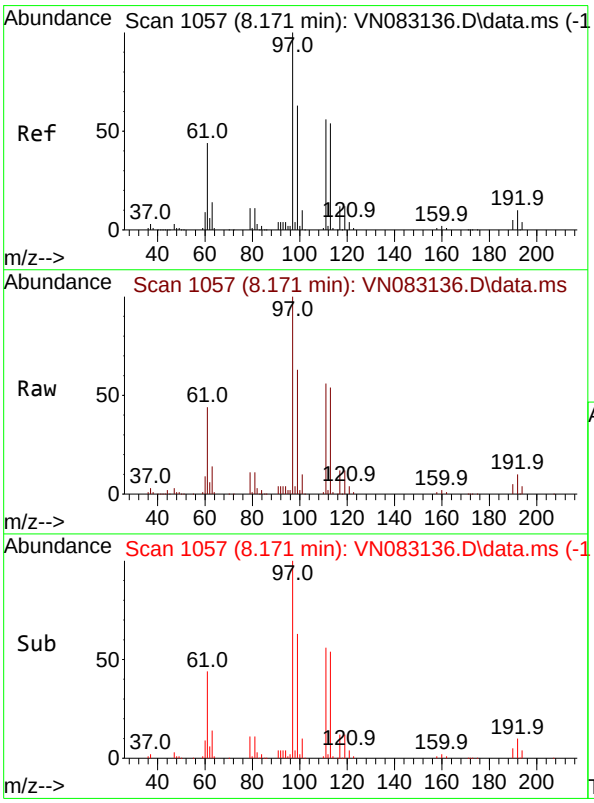
Ion	Ratio	Lower	Upper
56	100		
69	32.7	24.5	36.7
84	86.4	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

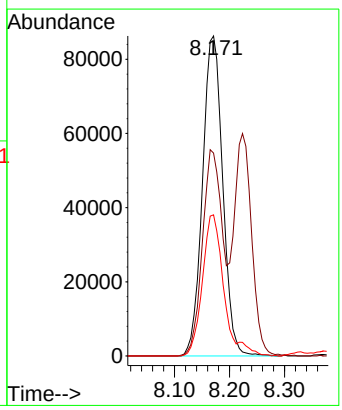
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

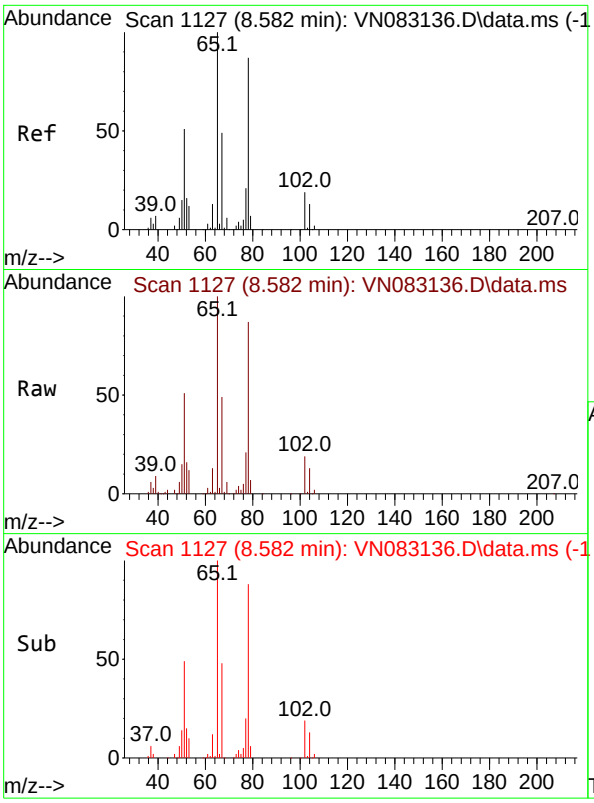


#32
1,1,1-Trichloroethane
Concen: 50.935 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 97 Resp: 220296

Ion	Ratio	Lower	Upper
97	100		
99	62.5	52.0	78.0
61	46.6	42.1	63.1





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

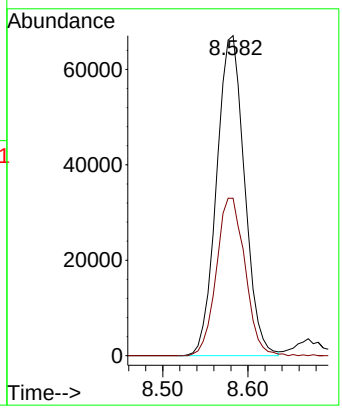
Tgt Ion: 65 Resp: 15268

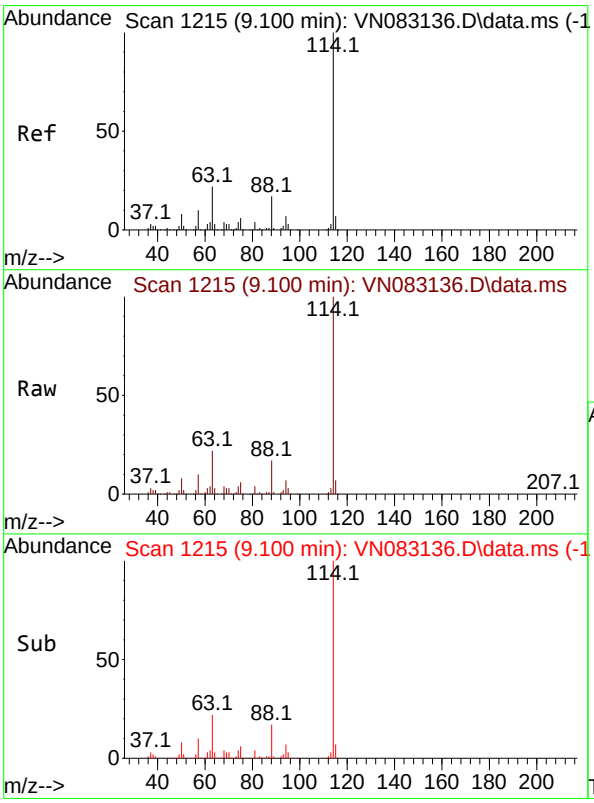
Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	104.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

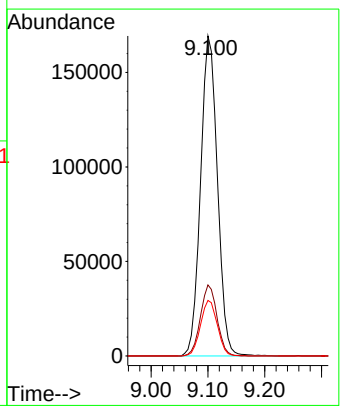


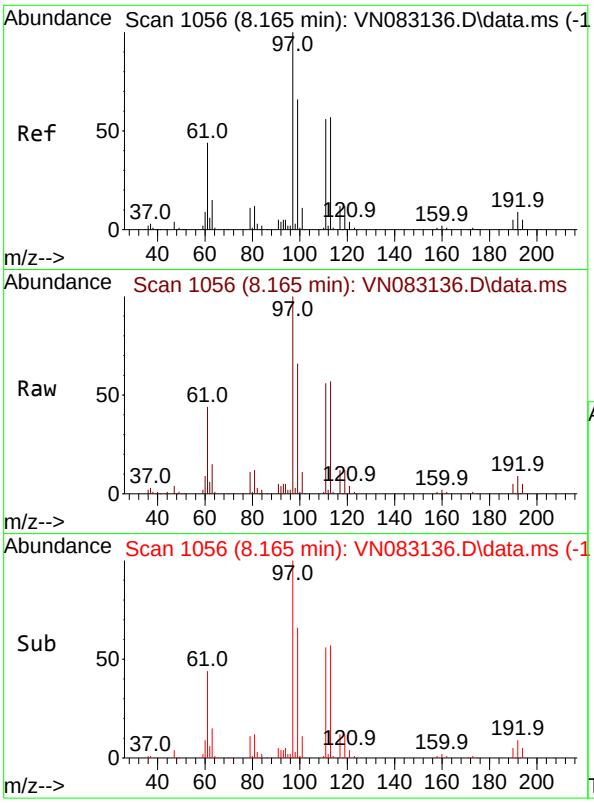


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:114 Resp: 348813

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	44.6
88	17.3	0.0	31.4

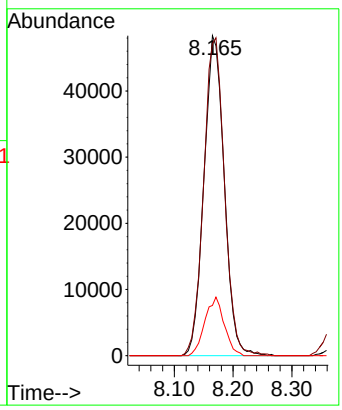




#35
Dibromofluoromethane
Concen: 53.216 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:113 Resp: 11586

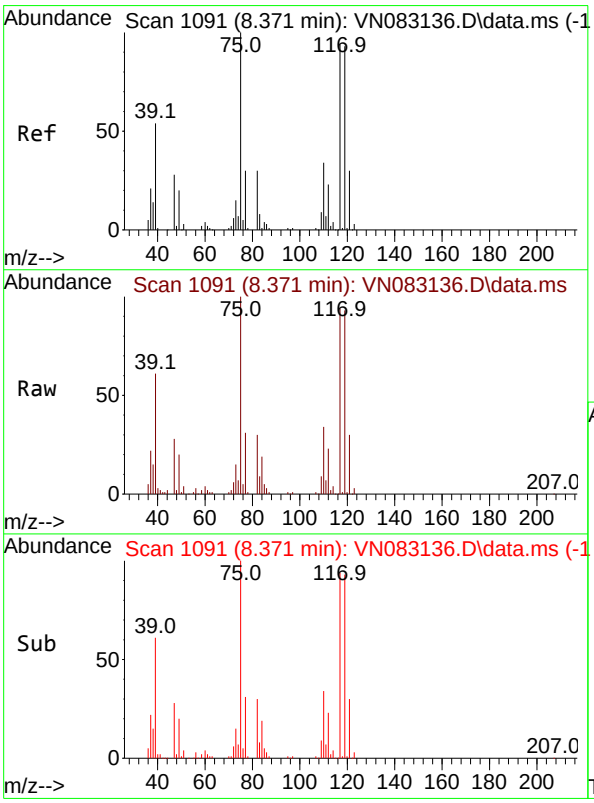
Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.4	123.6
192	17.5	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

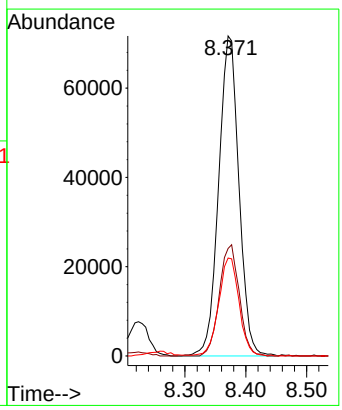
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

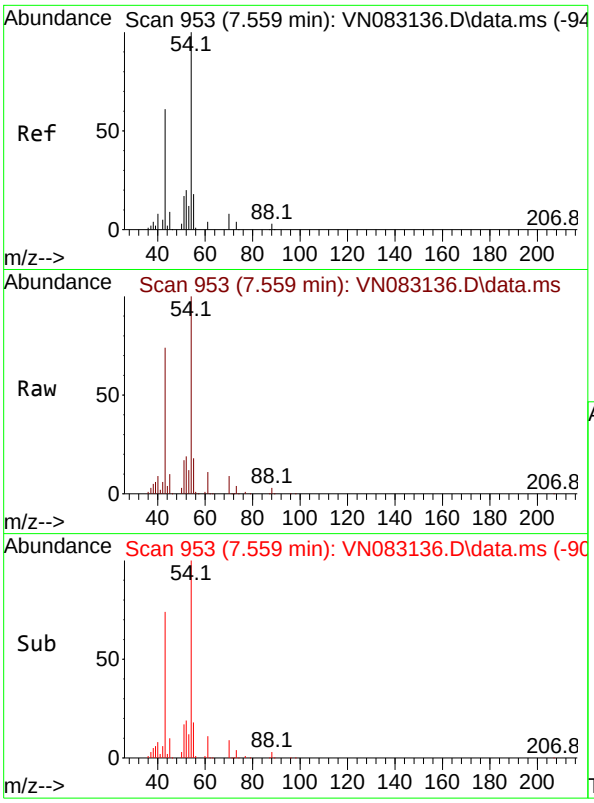


#36
1,1-Dichloropropene
Concen: 50.349 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 75 Resp: 165826

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.3	48.9
77	30.8	24.6	37.0





#37
Ethyl Acetate
Concen: 47.213 ug/l
RT: 7.559 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

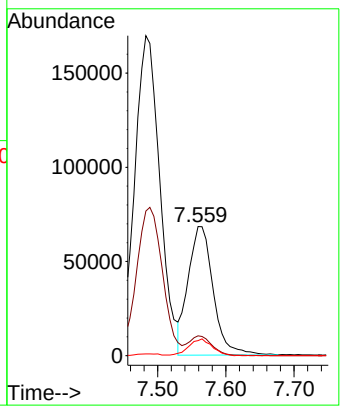
Tgt Ion: 43 Resp: 17410

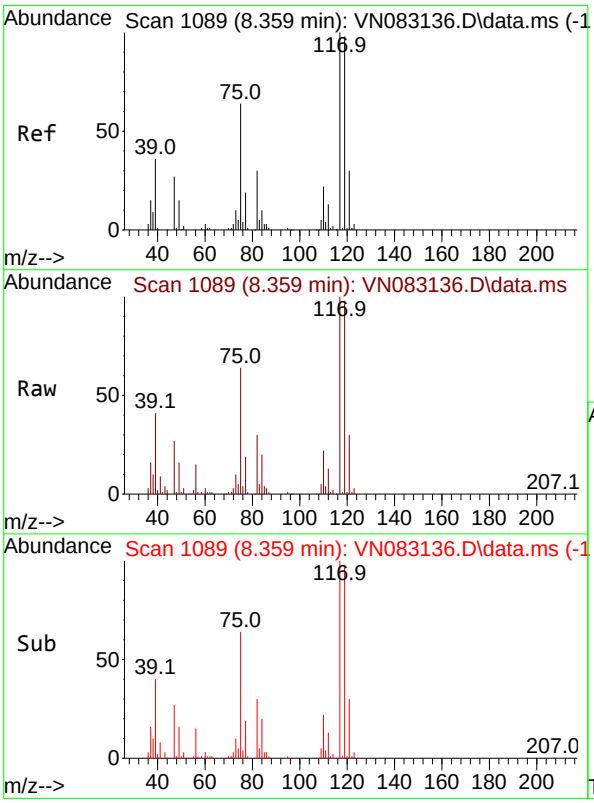
Ion	Ratio	Lower	Upper
43	100		
61	14.4	9.3	13.9#
70	12.1	7.0	10.6#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

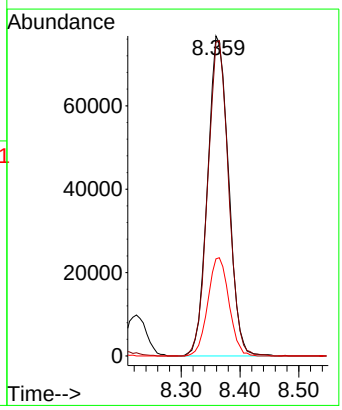


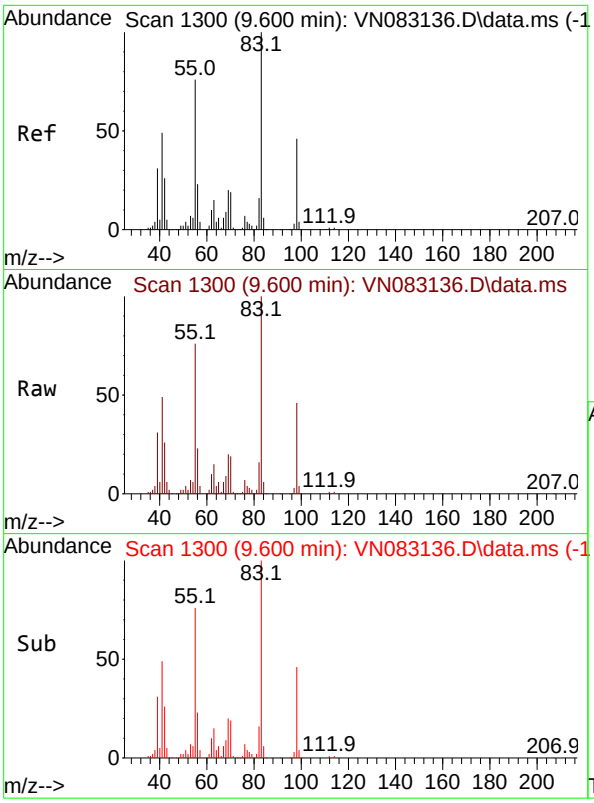


#38
Carbon Tetrachloride
Concen: 51.315 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:117 Resp: 190357

Ion	Ratio	Lower	Upper
117	100		
119	98.0	74.9	112.3
121	30.3	24.3	36.5

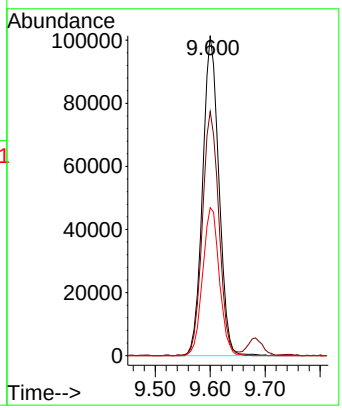




#39
Methylcyclohexane
Concen: 51.461 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 83 Resp: 20817

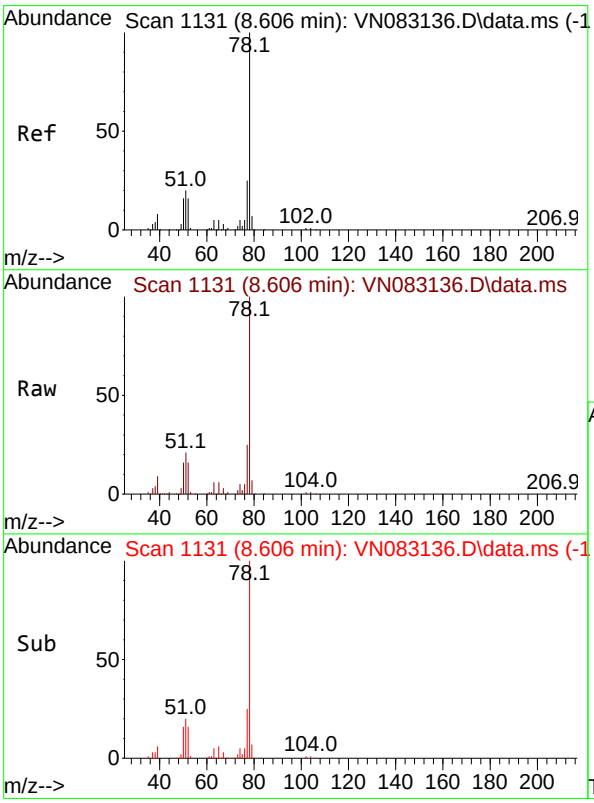
Ion	Ratio	Lower	Upper
83	100		
55	76.0	66.4	99.6
98	46.3	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

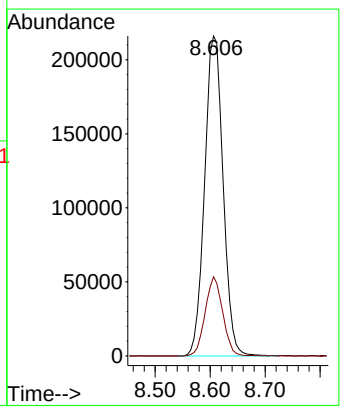
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

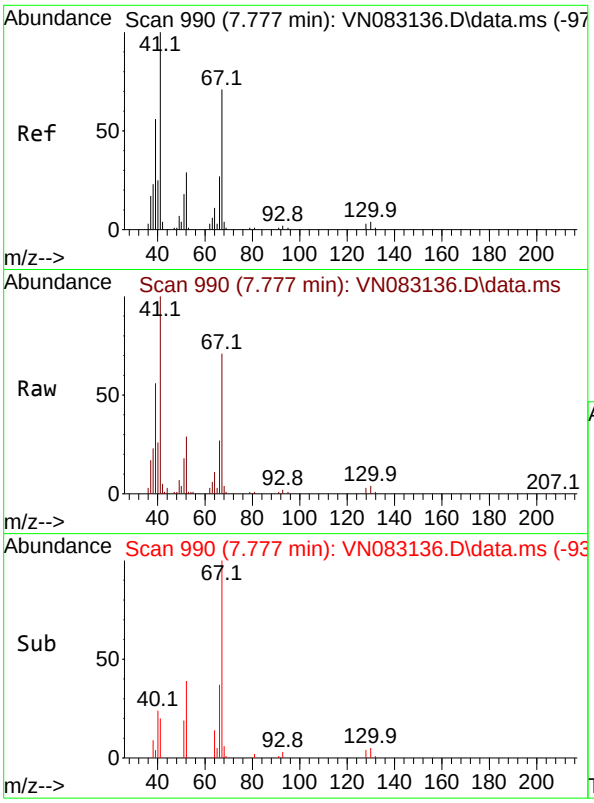


#40
Benzene
Concen: 51.436 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 78 Resp: 504662

Ion	Ratio	Lower	Upper
78	100		
77	24.8	19.0	28.4

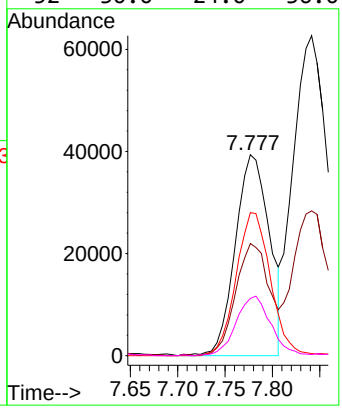




#41
Methacrylonitrile
Concen: 47.154 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 41 Resp: 9886

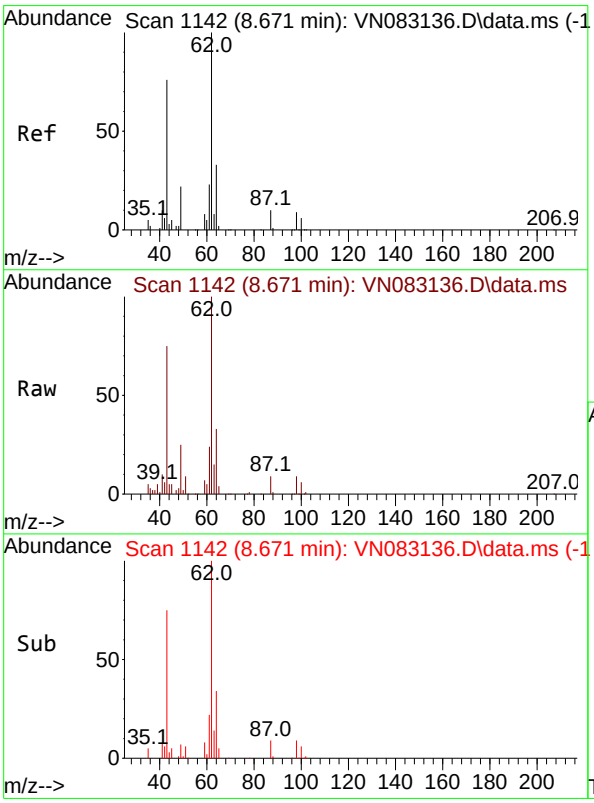
Ion	Ratio	Lower	Upper
41	100		
39	55.4	45.5	68.3
67	72.0	50.5	75.7
52	30.0	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

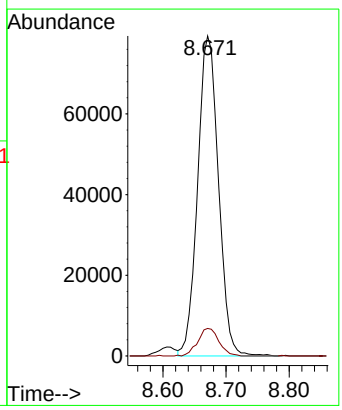
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

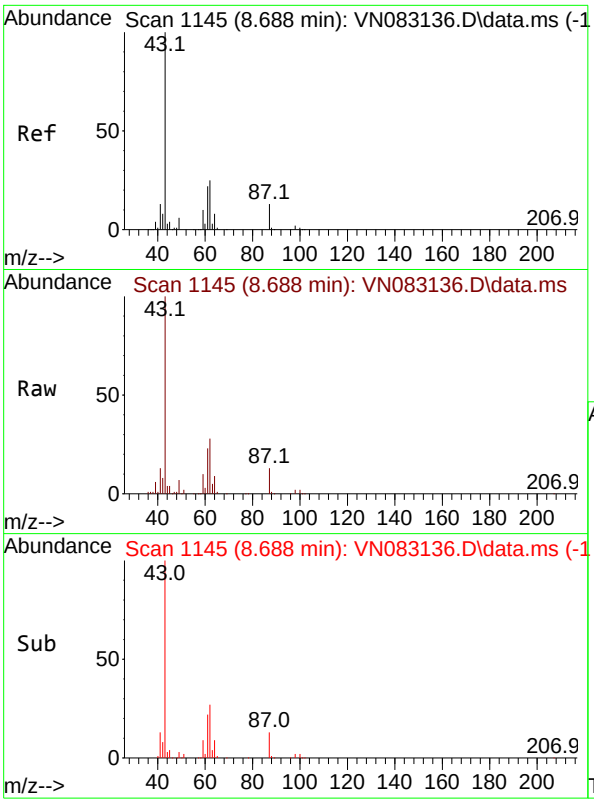


#42
1,2-Dichloroethane
Concen: 50.765 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 62 Resp: 181440

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	15.8





#43
Isopropyl Acetate
Concen: 50.219 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

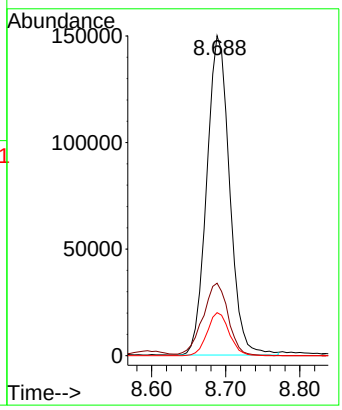
Tgt Ion: 43 Resp: 32108

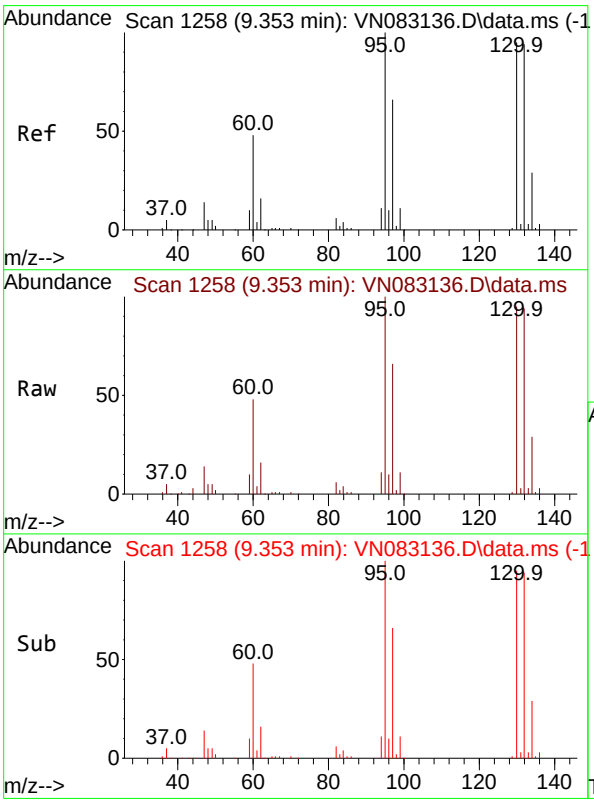
Ion	Ratio	Lower	Upper
43	100		
61	25.3	17.8	26.6
87	13.0	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

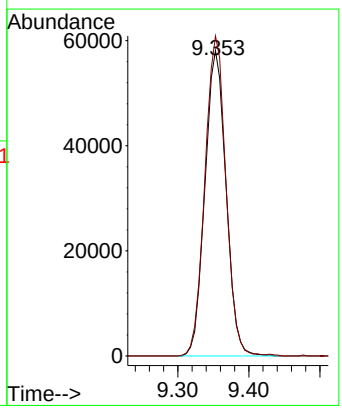


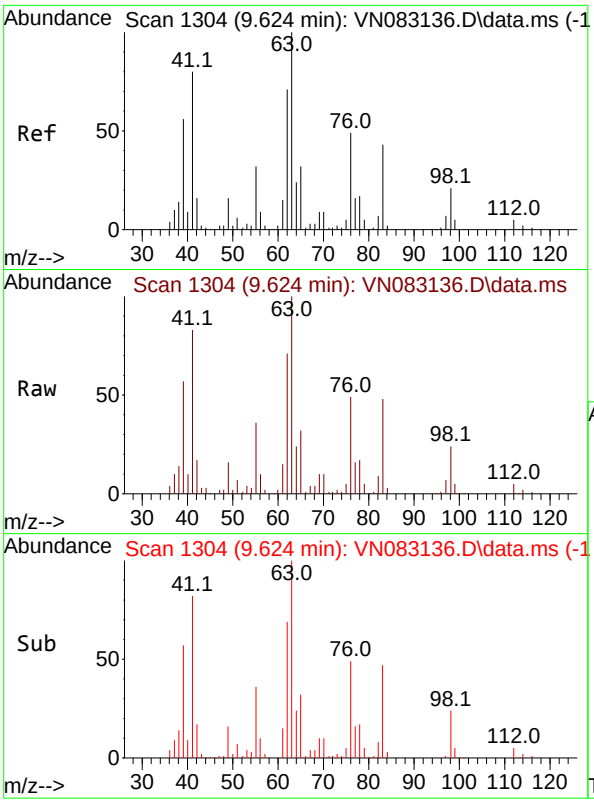


#44
Trichloroethene
Concen: 51.383 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:130 Resp: 119998

Ion	Ratio	Lower	Upper
130	100		
95	104.7	0.0	197.8

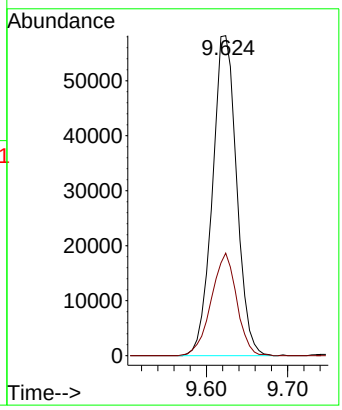




#45
1,2-Dichloropropane
Concen: 51.747 ug/l
RT: 9.624 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 63 Resp: 12051

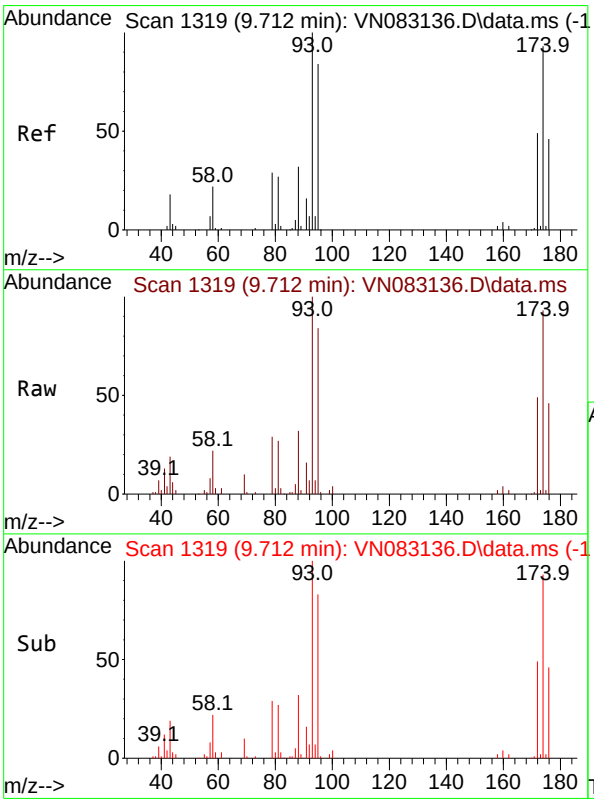
Ion	Ratio	Lower	Upper
63	100		
65	32.1	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

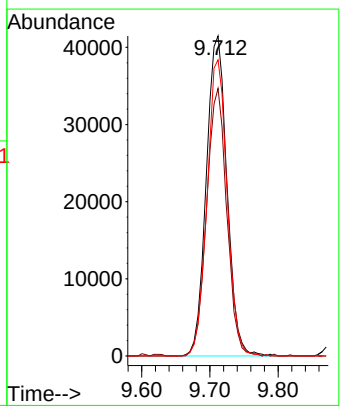
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

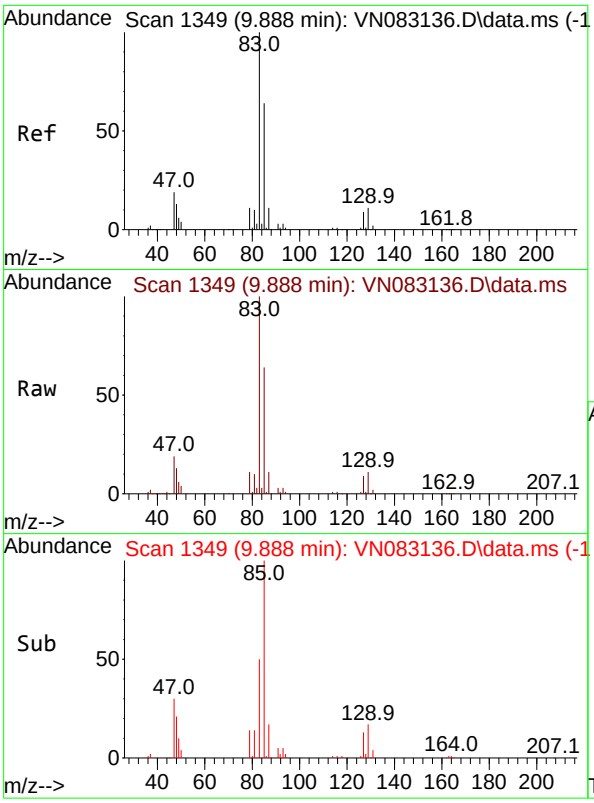


#46
Dibromomethane
Concen: 52.436 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 93 Resp: 87411

Ion	Ratio	Lower	Upper
93	100		
95	81.7	65.8	98.6
174	90.1	71.7	107.5

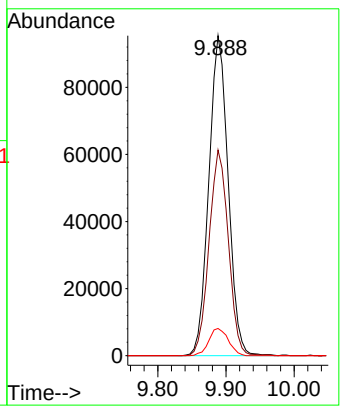




#47
Bromodichloromethane
Concen: 50.245 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 83 Resp: 18806

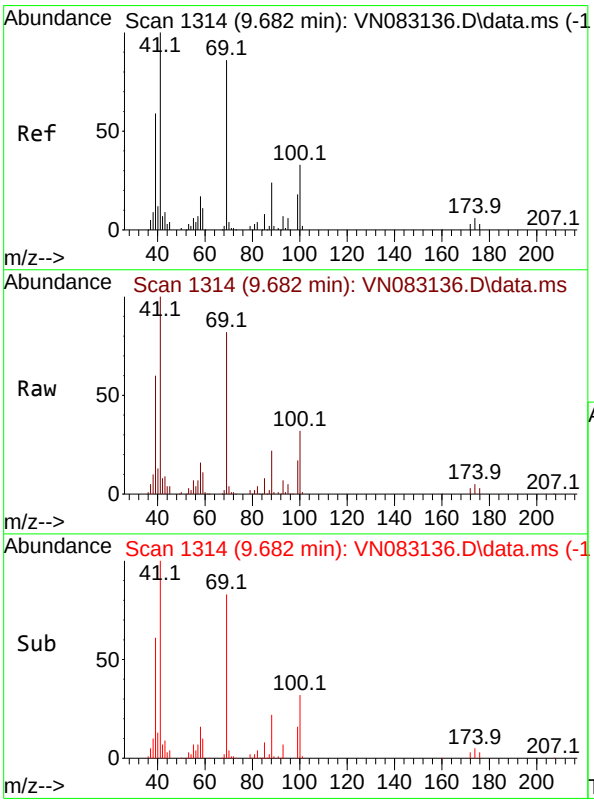
Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.1	76.7
127	8.5	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

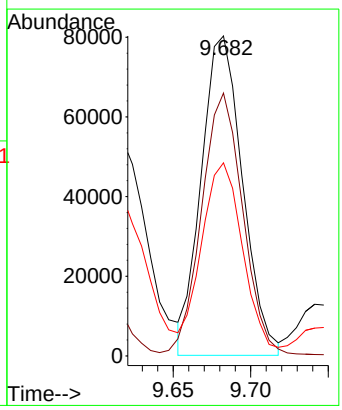
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

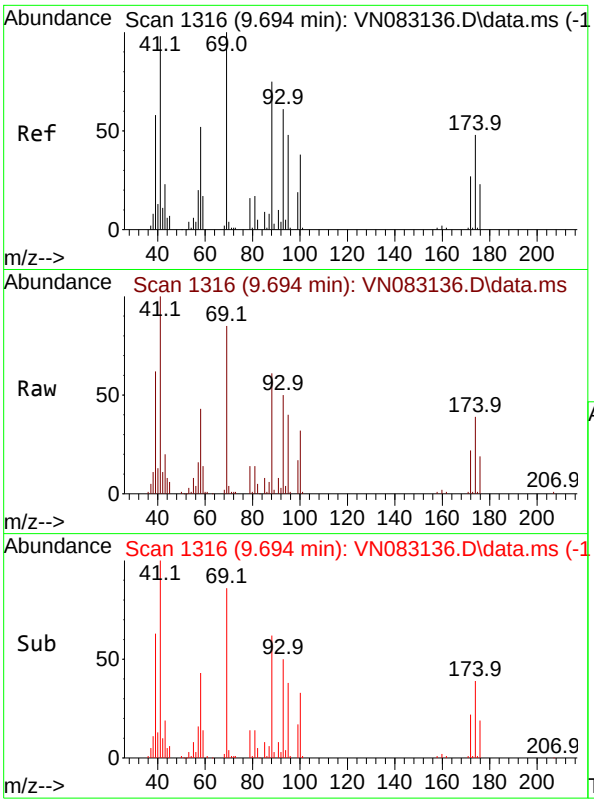


#48
Methyl methacrylate
Concen: 48.631 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 41 Resp: 148264

Ion	Ratio	Lower	Upper
41	100		
69	82.5	56.3	84.5
39	61.0	50.3	75.5





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

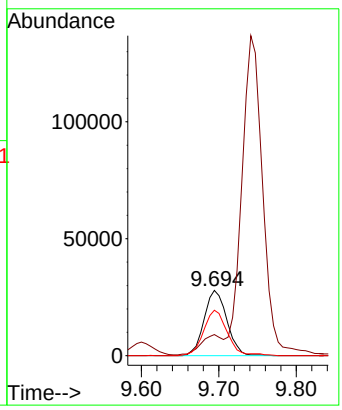
Tgt Ion: 88 Resp: 5703

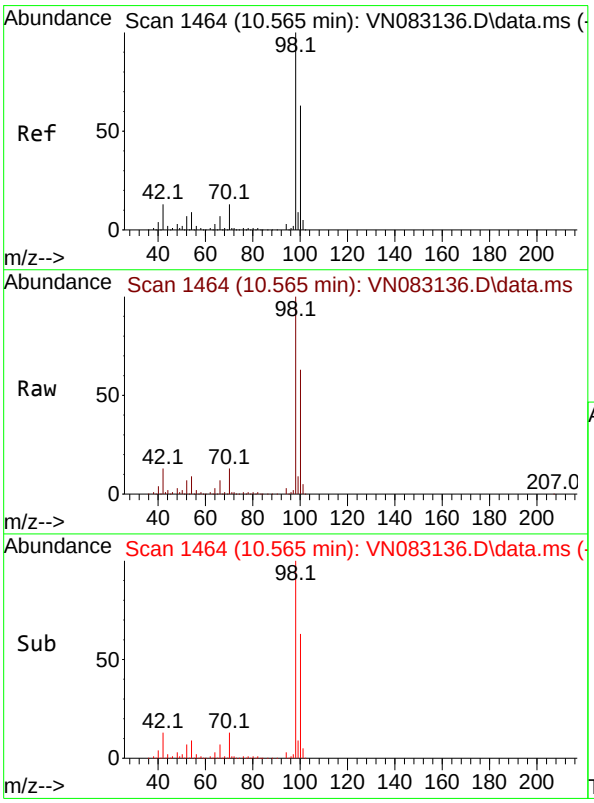
Ion	Ratio	Lower	Upper
88	100		
43	29.1	27.8	41.8
58	72.4	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

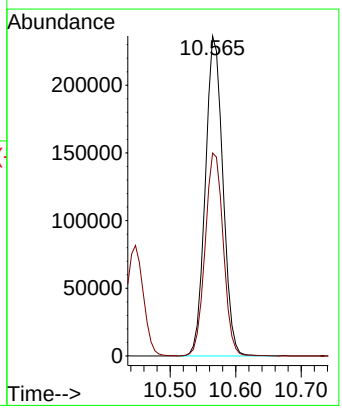


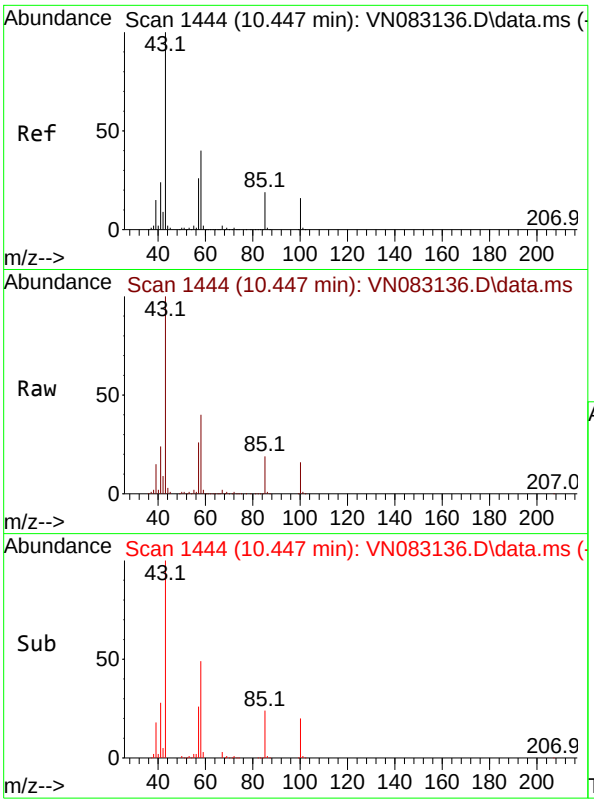


#50
Toluene-d8
Concen: 54.174 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 98 Resp: 439976

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 258.493 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

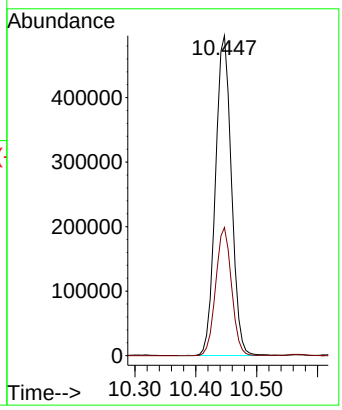
Tgt Ion: 43 Resp: 90141

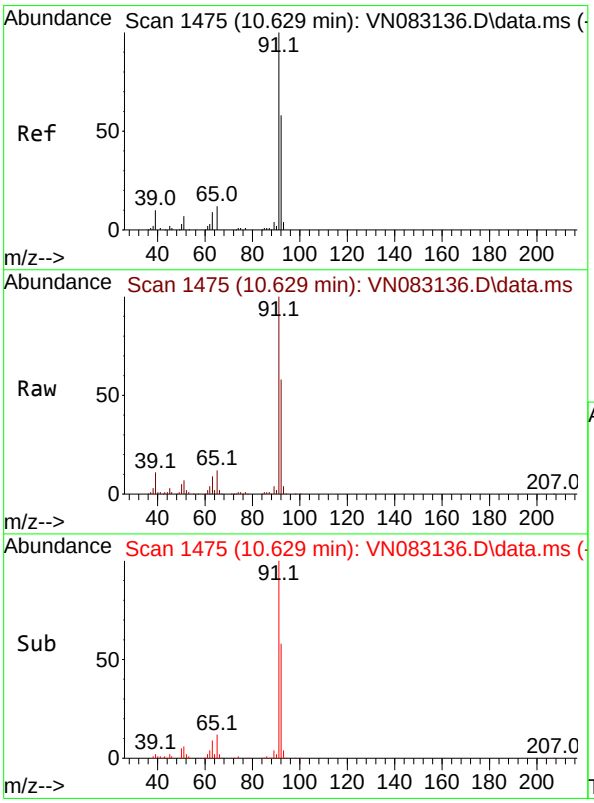
Ion	Ratio	Lower	Upper
43	100		
58	39.8	28.2	42.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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

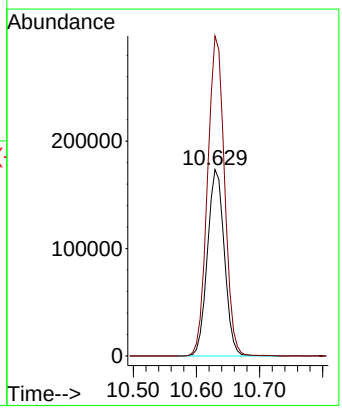


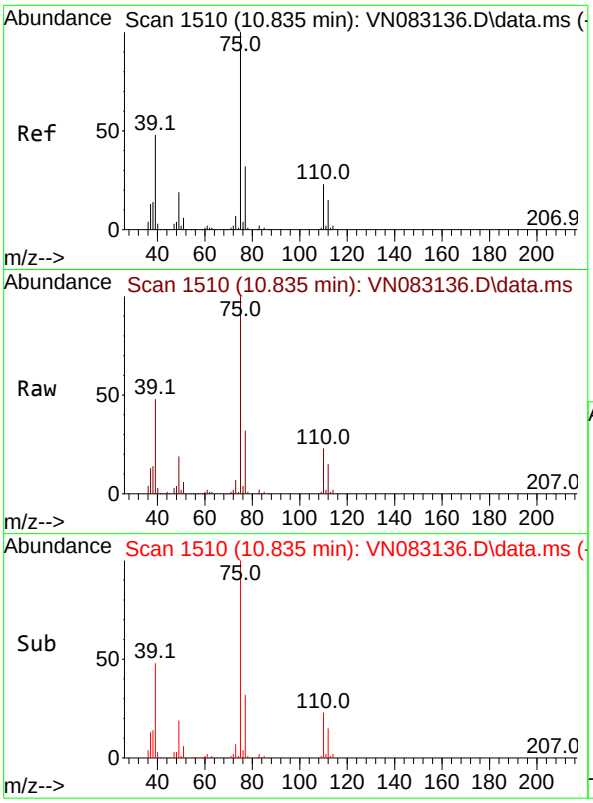


#52
Toluene
Concen: 52.127 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 92 Resp: 323148

Ion	Ratio	Lower	Upper
92	100		
91	172.1	139.4	209.0

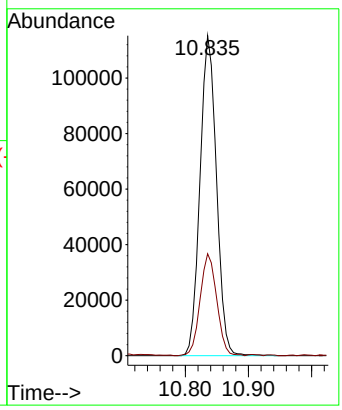




#53
t-1,3-Dichloropropene
Concen: 54.205 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 75 Resp: 20841

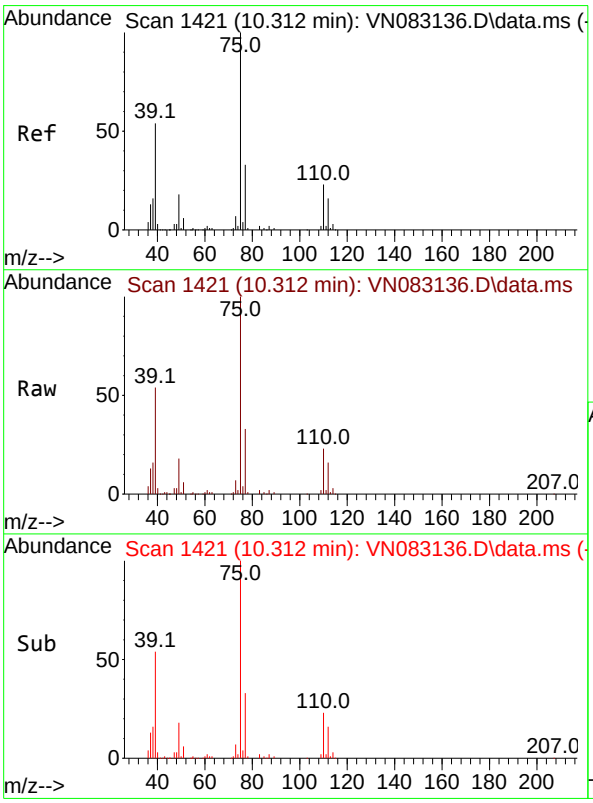
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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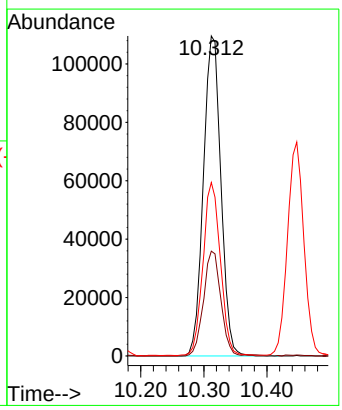
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

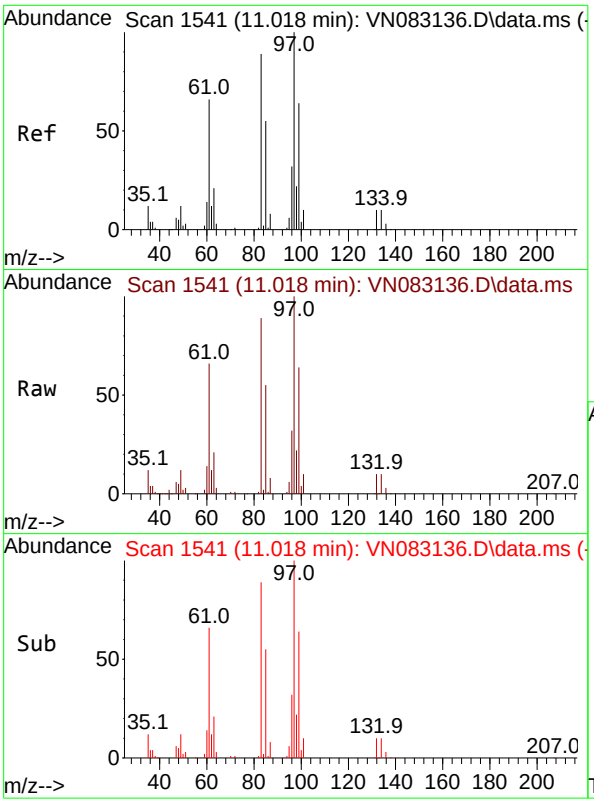


#54
cis-1,3-Dichloropropene
Concen: 51.692 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 75 Resp: 211396

Ion	Ratio	Lower	Upper
75	100		
77	32.8	24.3	36.5
39	54.0	50.5	75.7

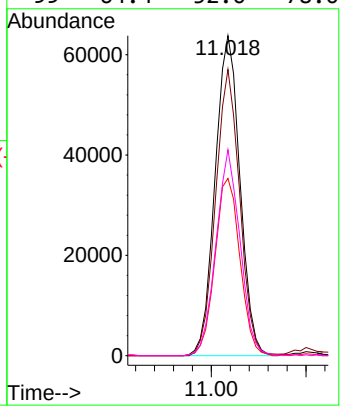




#55
1,1,2-Trichloroethane
Concen: 52.387 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 97 Resp: 11638

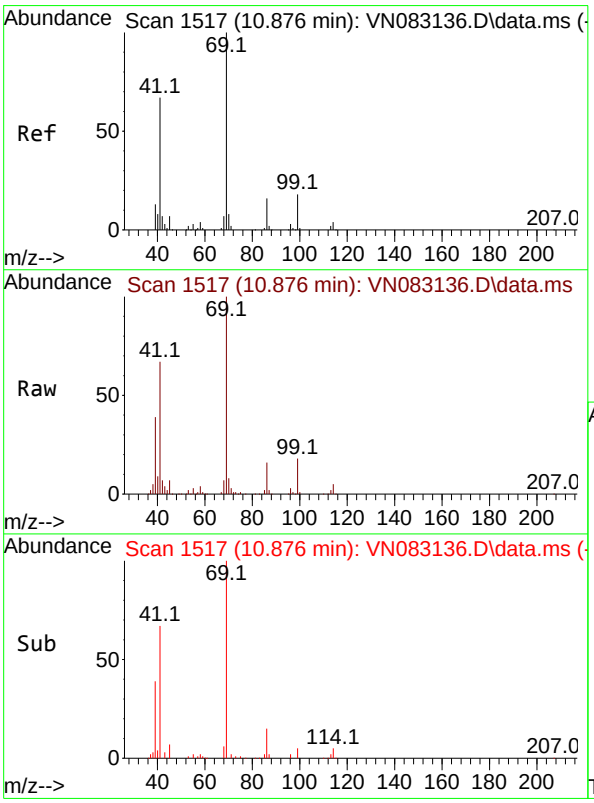
Ion	Ratio	Lower	Upper
97	100		
83	89.4	71.4	107.0
85	55.4	45.8	68.6
99	64.4	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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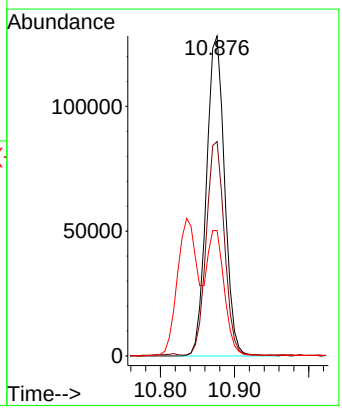
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

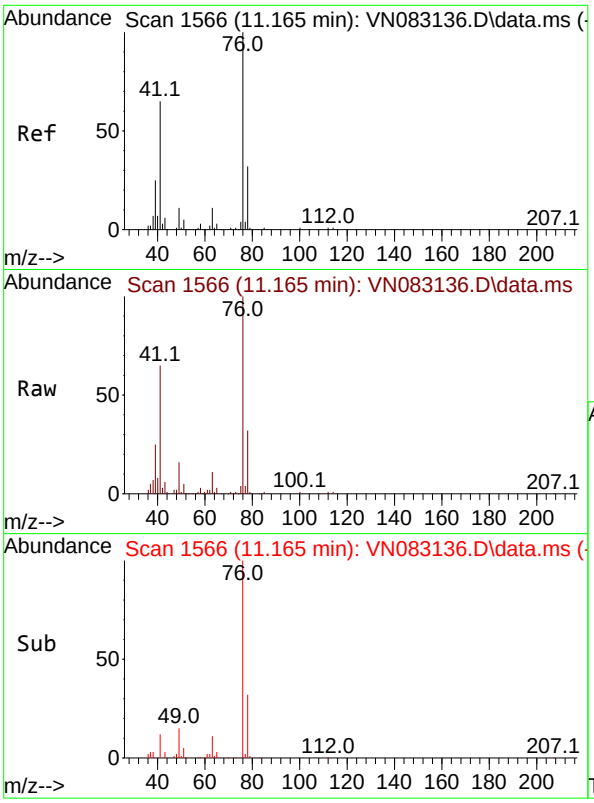


#56
Ethyl methacrylate
Concen: 51.964 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 69 Resp: 217635

Ion	Ratio	Lower	Upper
69	100		
41	66.9	63.4	95.2
39	35.2	37.4	56.0#





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

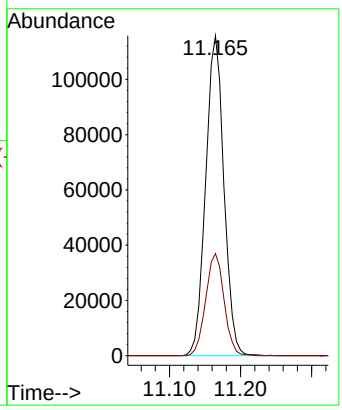
Tgt Ion: 76 Resp: 20644

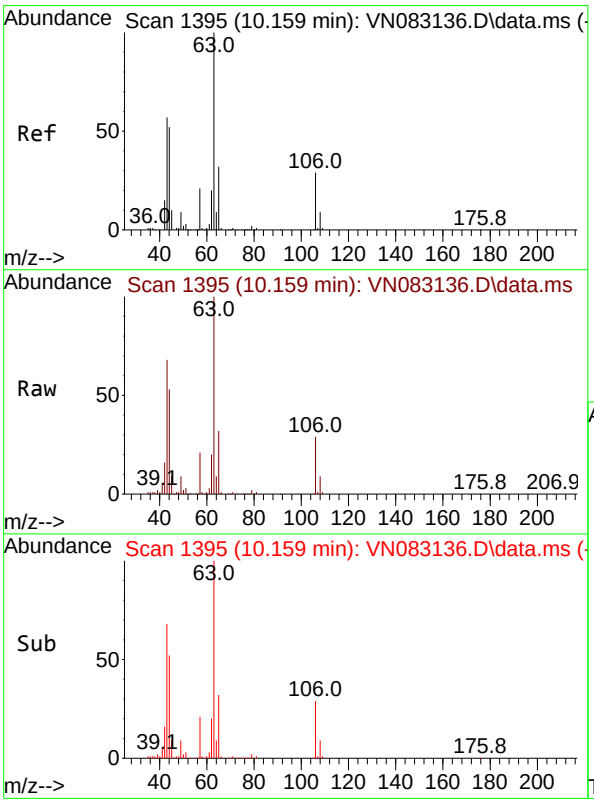
Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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

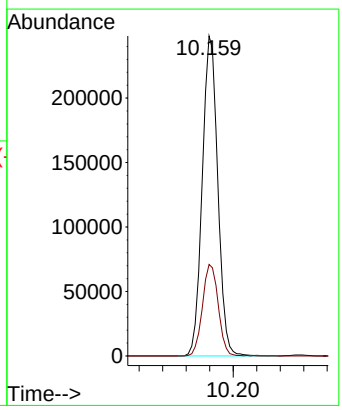


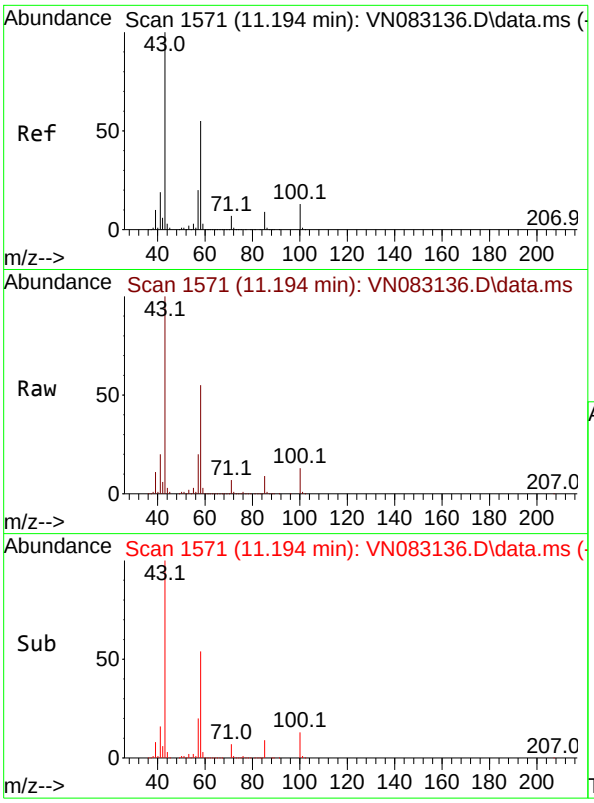


#58
2-Chloroethyl Vinyl ether
Concen: 256.939 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 63 Resp: 454871

Ion	Ratio	Lower	Upper
63	100		
106	29.0	21.4	32.0





#59
2-Hexanone
Concen: 256.396 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

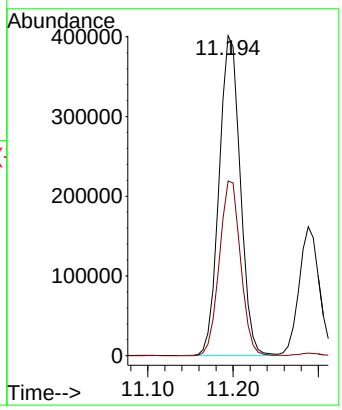
Tgt Ion: 43 Resp: 69170

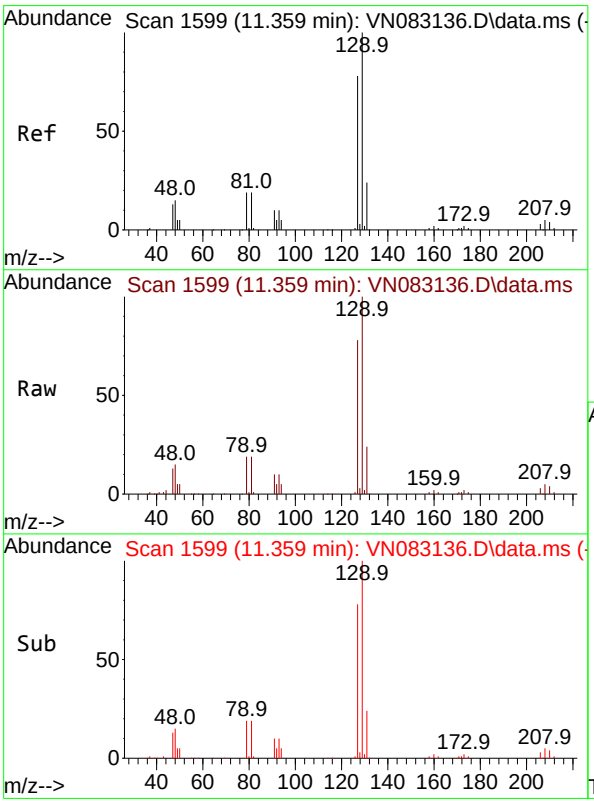
Ion	Ratio	Lower	Upper
43	100		
58	54.9	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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

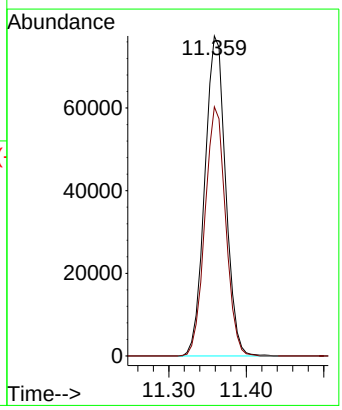


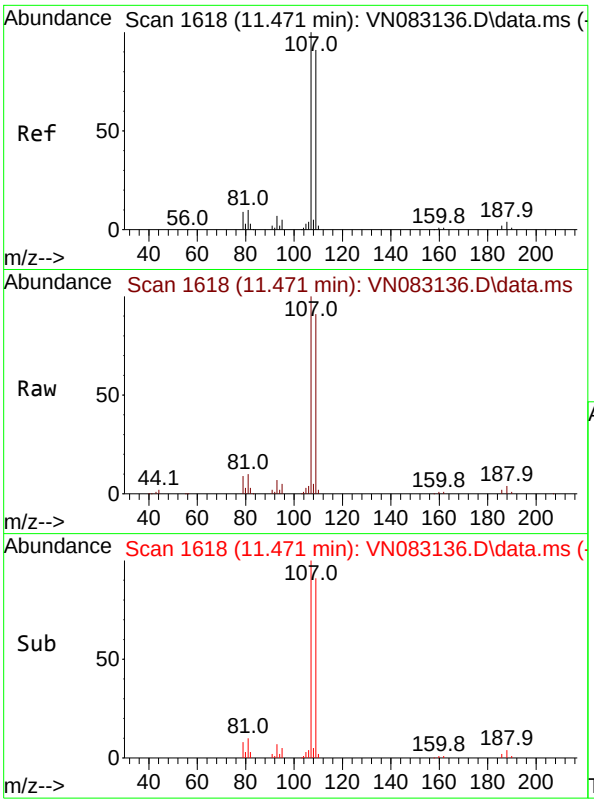


#60
Dibromochloromethane
Concen: 53.688 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:129 Resp: 144208

Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.2	117.6





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

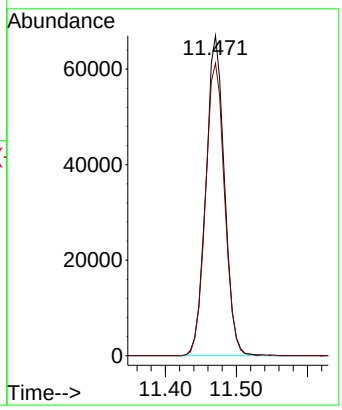
Tgt Ion:107 Resp: 12115

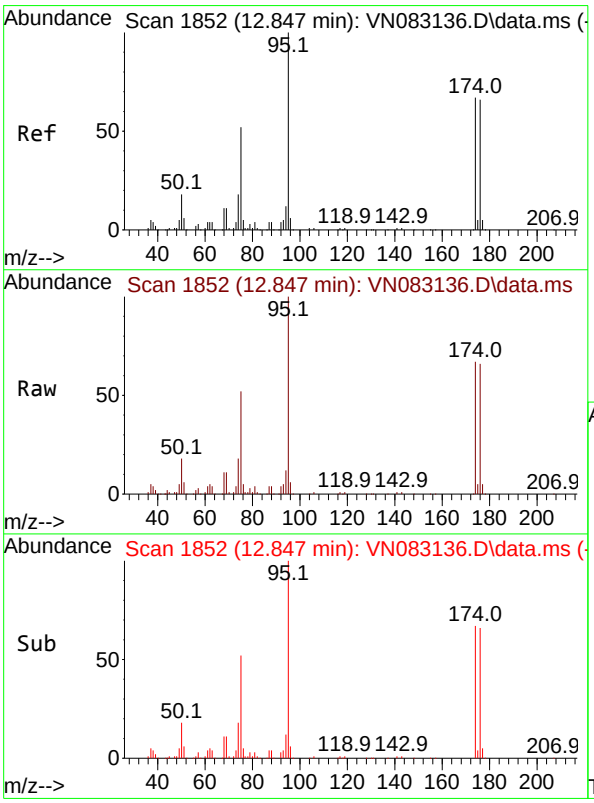
Ion	Ratio	Lower	Upper
107	100		
109	94.4	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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

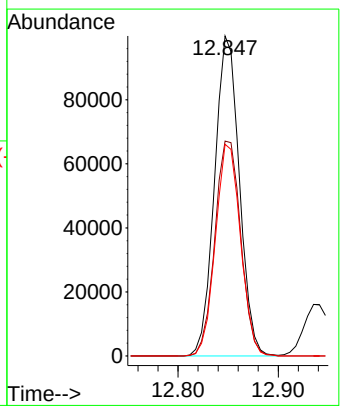


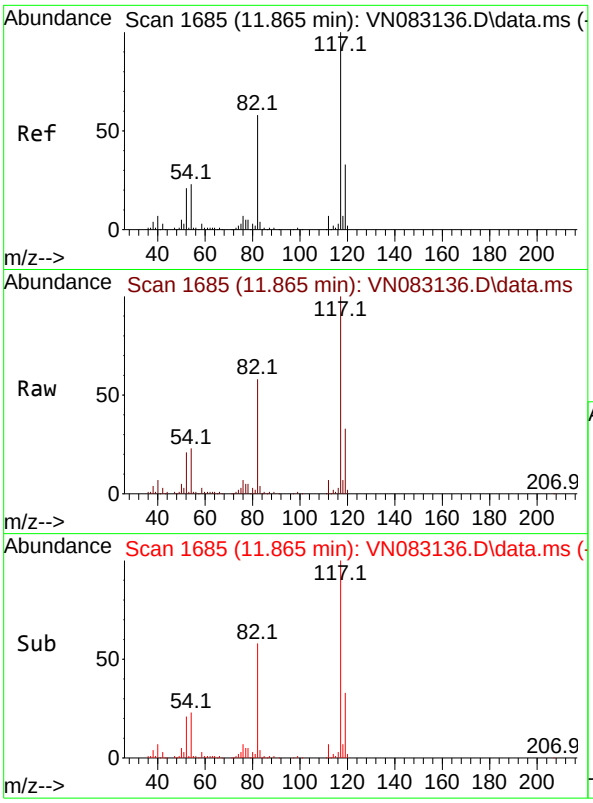


#62
4-Bromofluorobenzene
Concen: 54.173 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 95 Resp: 171524

Ion	Ratio	Lower	Upper
95	100		
174	70.0	0.0	159.2
176	66.9	0.0	147.6





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

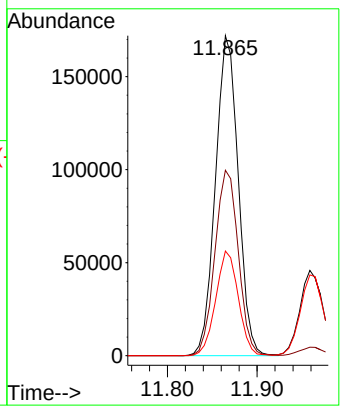
Tgt Ion:117 Resp: 30311

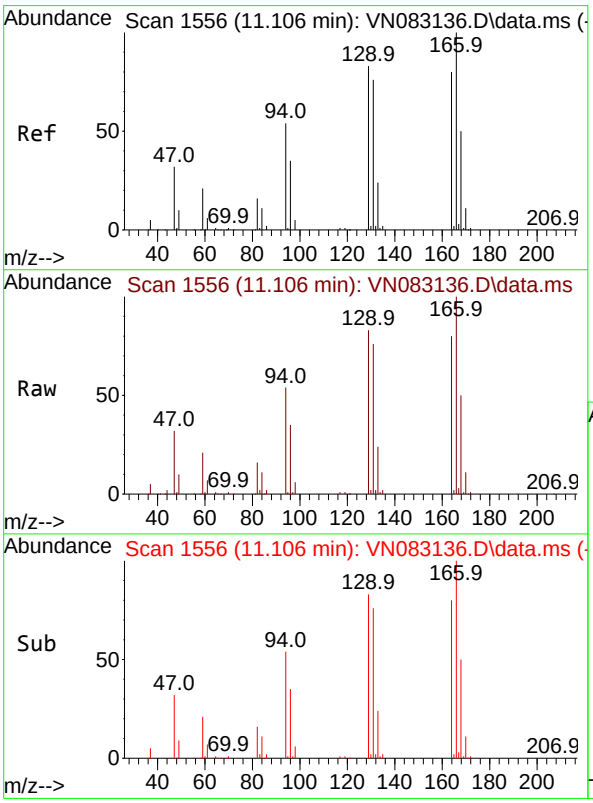
Ion	Ratio	Lower	Upper
117	100		
82	57.9	47.5	71.3
119	32.7	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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

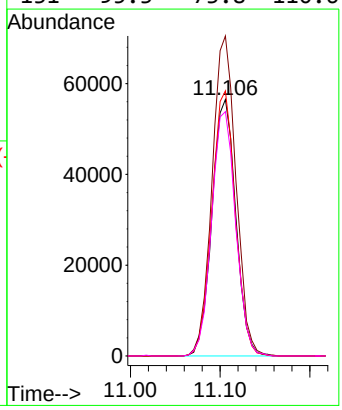


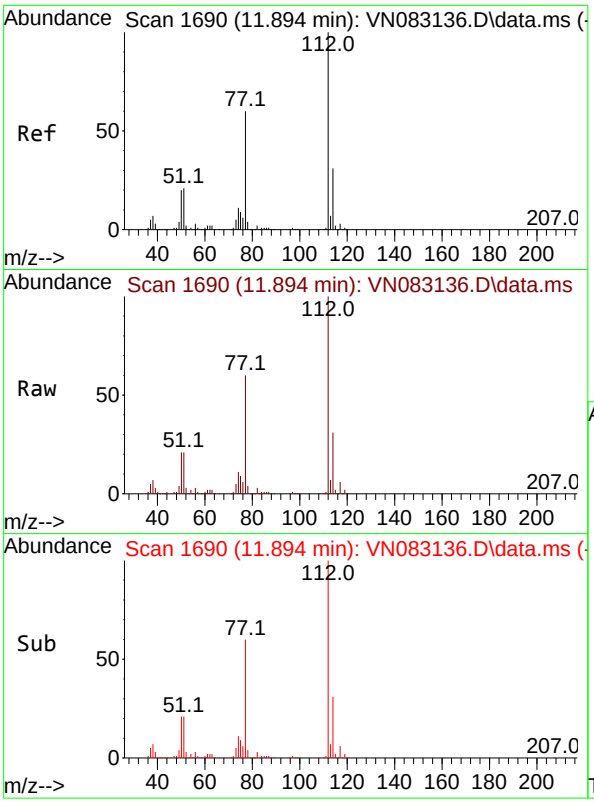


#64
Tetrachloroethene
Concen: 51.784 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:164 Resp: 103955

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

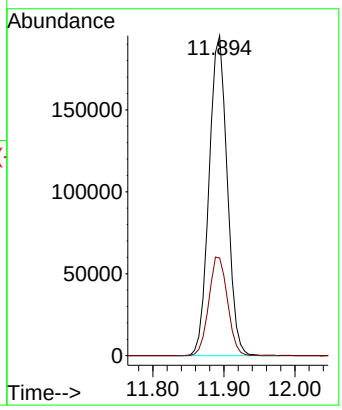




#65
Chlorobenzene
Concen: 51.679 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:112 Resp: 34617

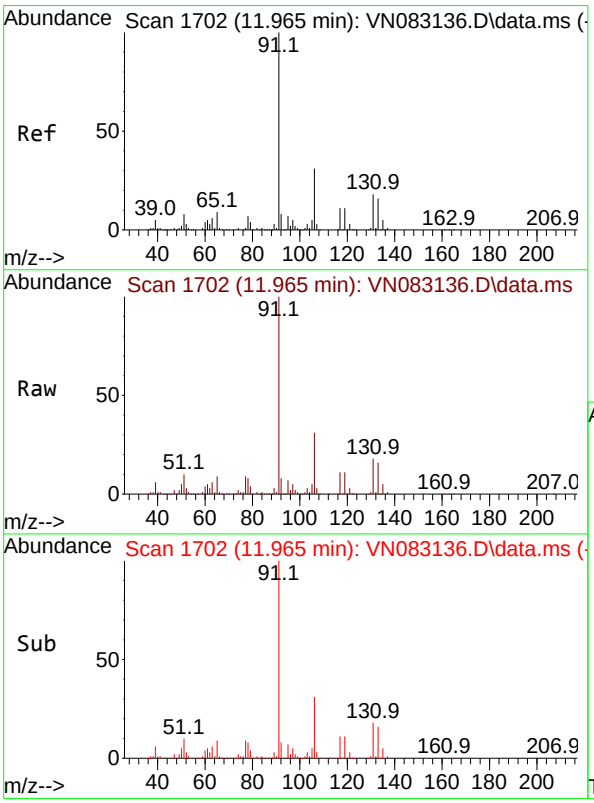
Ion	Ratio	Lower	Upper
112	100		
114	30.6	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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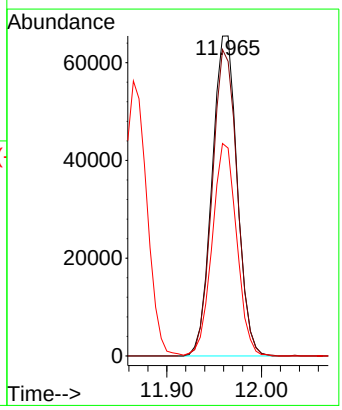
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

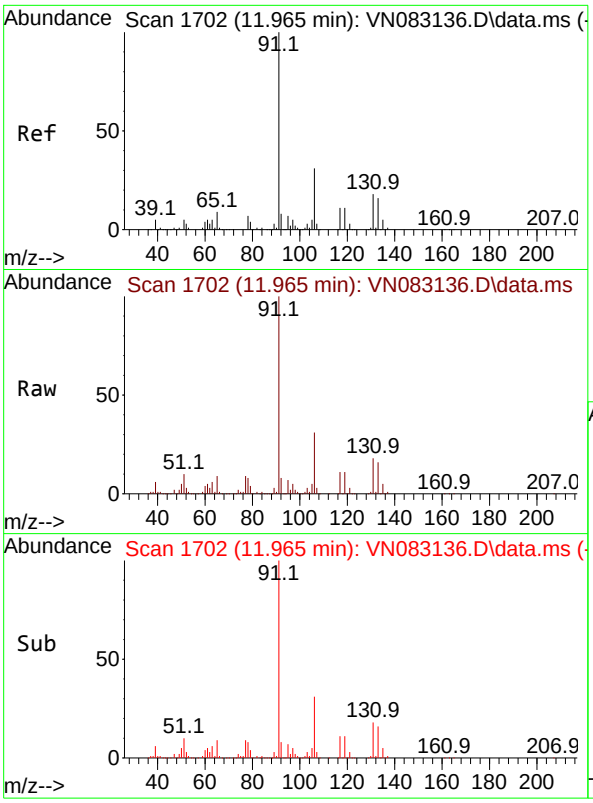


#66
1,1,1,2-Tetrachloroethane
Concen: 51.242 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:131 Resp: 121057

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	142.0
119	64.7	32.5	97.4





#67
Ethyl Benzene
Concen: 51.179 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

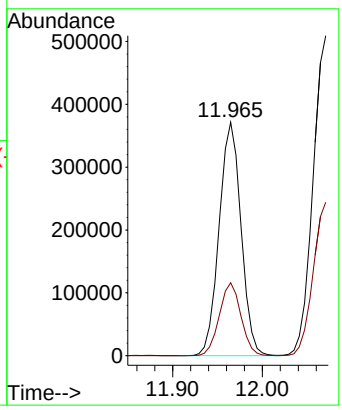
Tgt Ion: 91 Resp: 62890

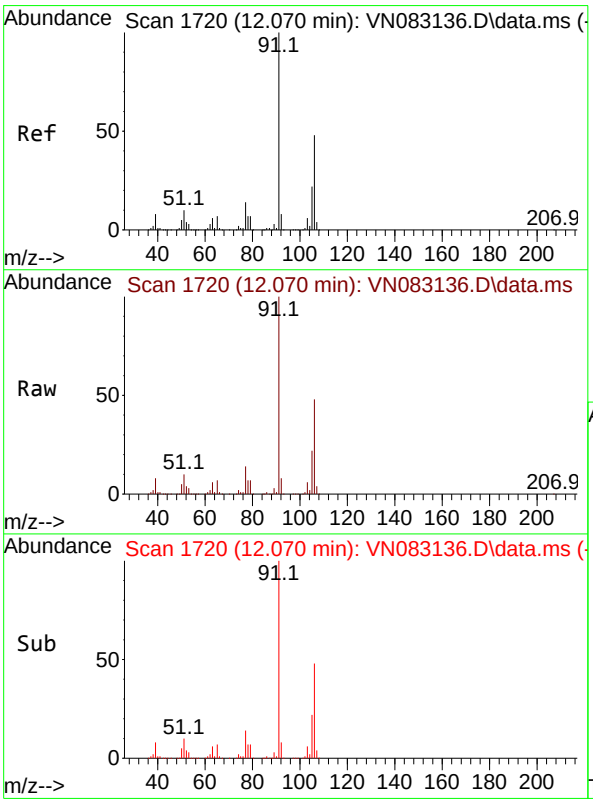
Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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

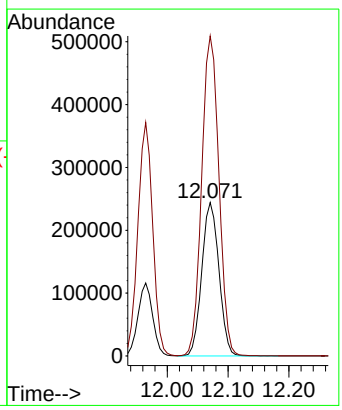


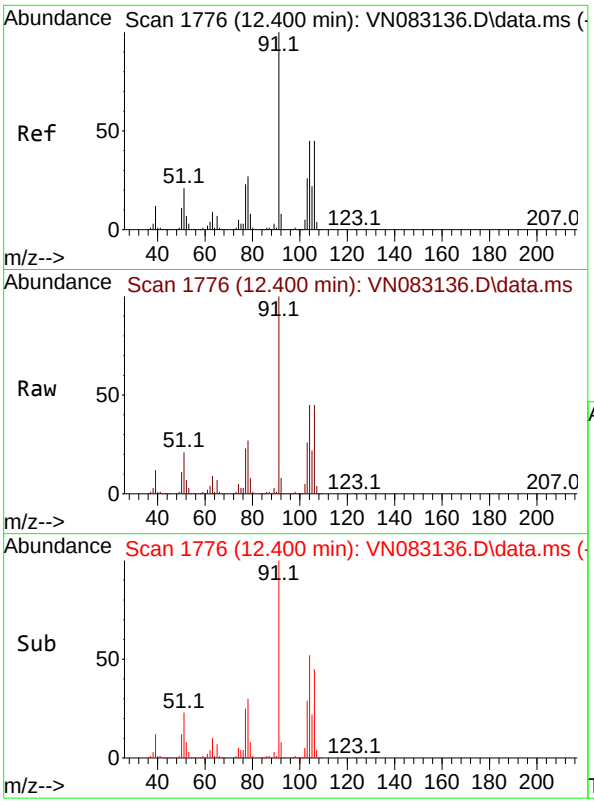


#68
m/p-Xylenes
Concen: 103.683 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:106 Resp: 477261

Ion	Ratio	Lower	Upper
106	100		
91	209.9	166.1	249.1





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

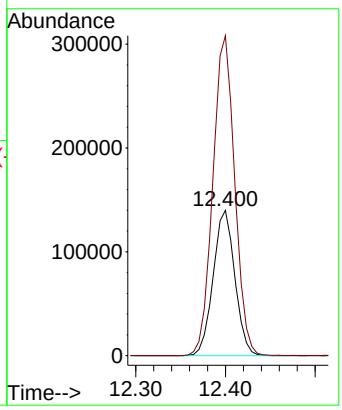
Tgt Ion:106 Resp: 23443

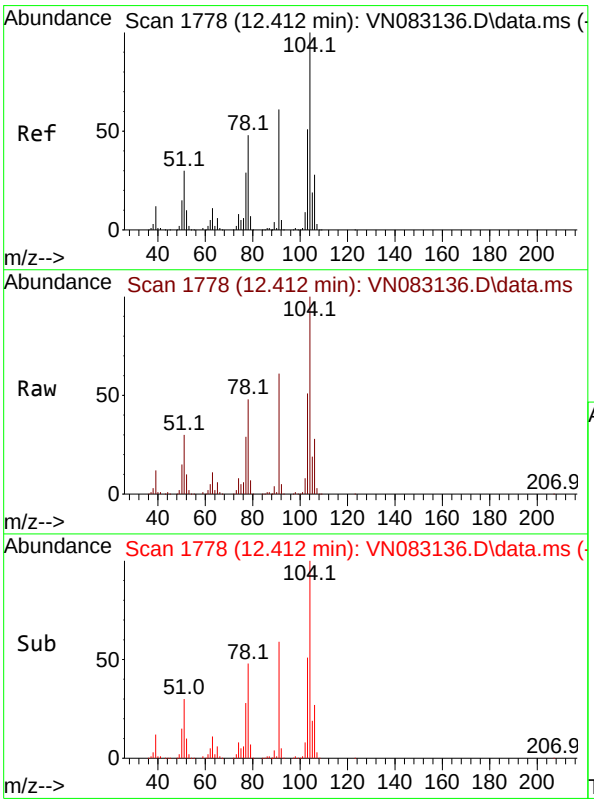
Ion	Ratio	Lower	Upper
106	100		
91	222.4	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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

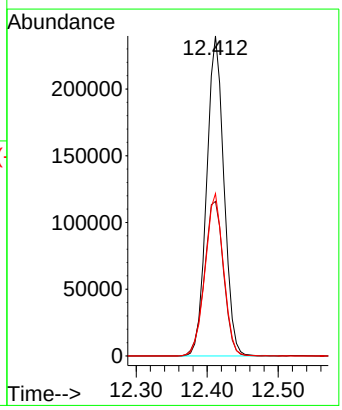


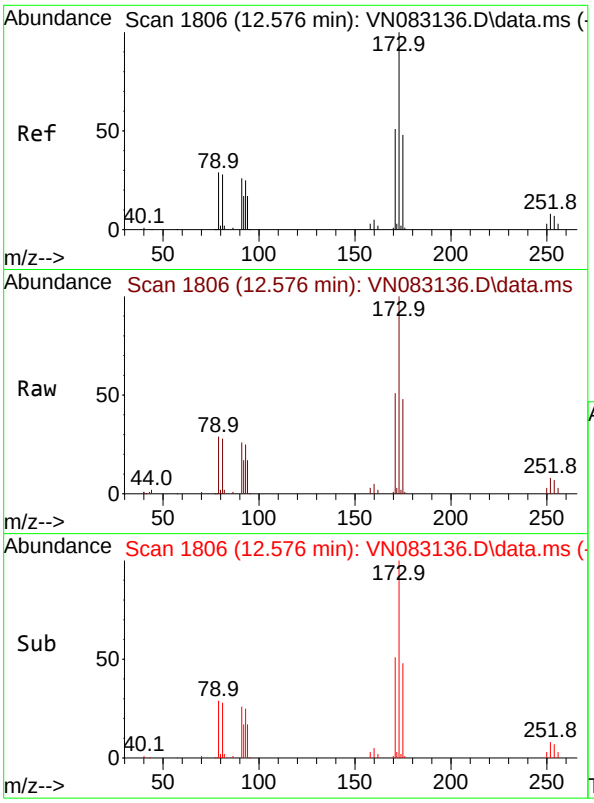


#70
Styrene
Concen: 53.115 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:104 Resp: 405002

Ion	Ratio	Lower	Upper
104	100		
78	53.4	41.6	62.4
103	53.7	44.0	66.0

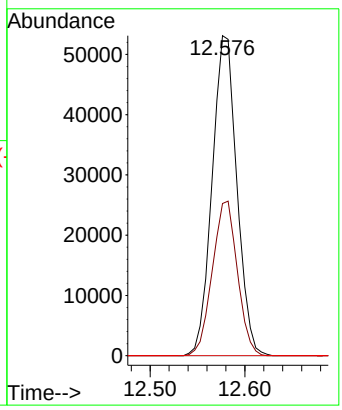




#71
Bromoform
Concen: 53.850 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:173 Resp: 9637

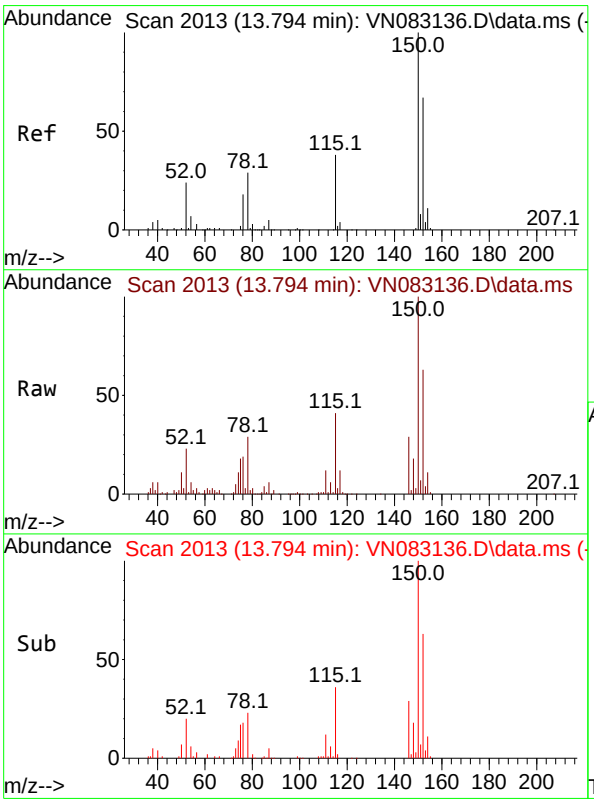
Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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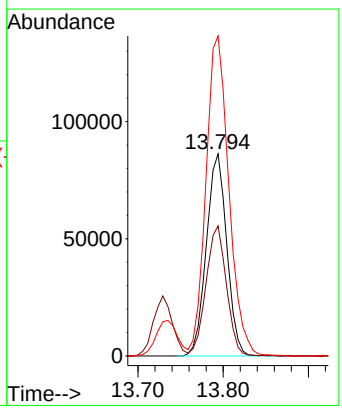
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

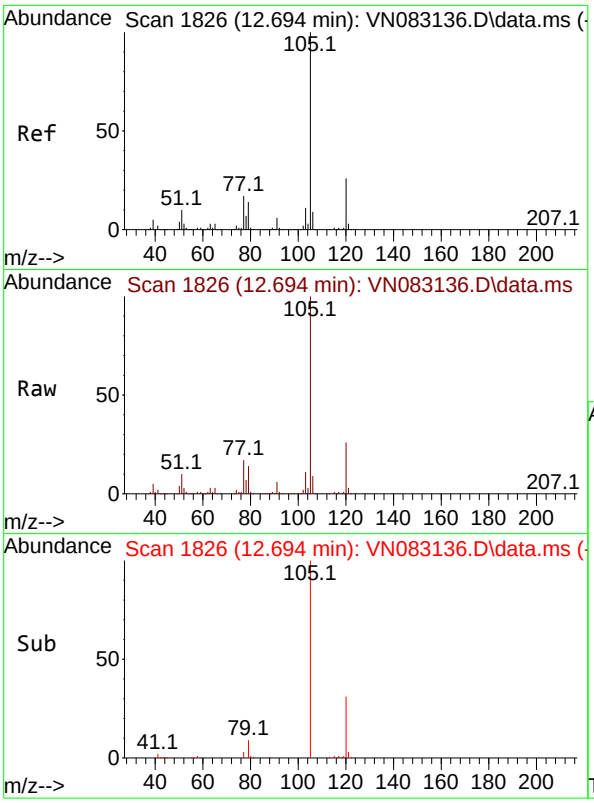


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:152 Resp: 143466

Ion	Ratio	Lower	Upper
152	100		
115	63.9	30.6	91.6
150	177.7	0.0	348.6

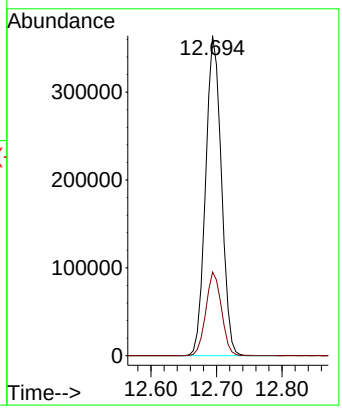




#73
Isopropylbenzene
Concen: 50.795 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:105 Resp: 60952

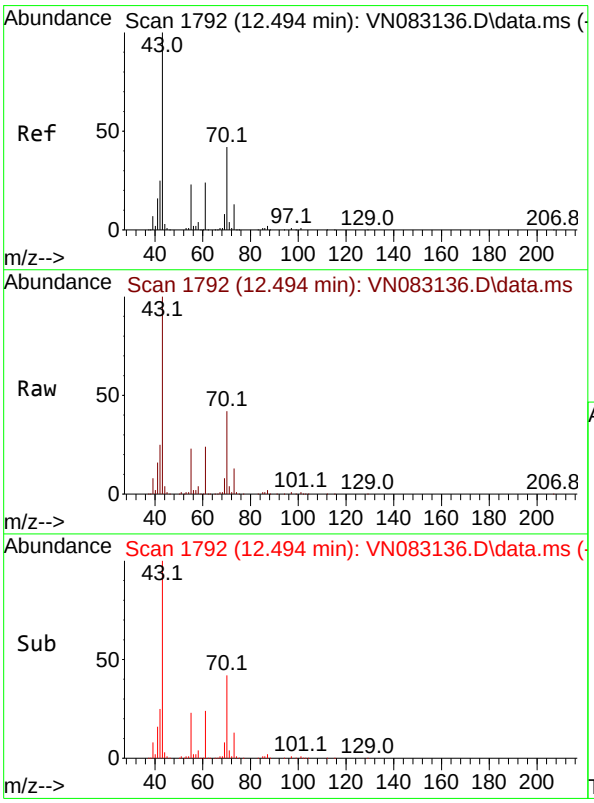
Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

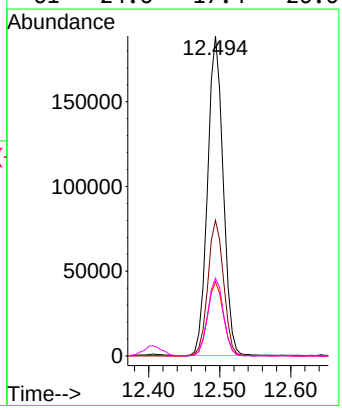
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

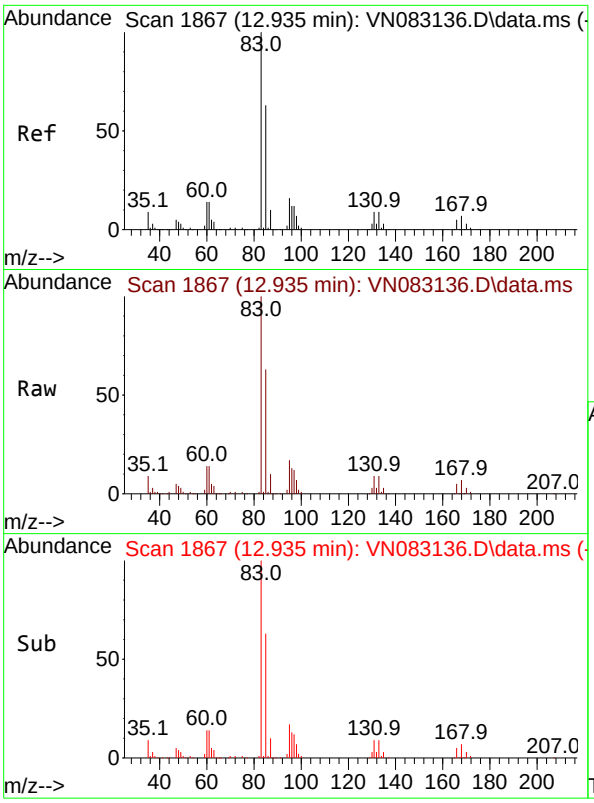


#74
N-amyl acetate
Concen: 48.950 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 287319

Ion	Ratio	Lower	Upper
43	100		
70	42.7	29.8	44.6
55	23.8	18.7	28.1
61	24.6	17.4	26.0





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

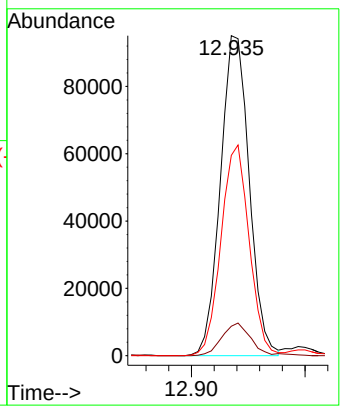
Tgt Ion: 83 Resp: 16748

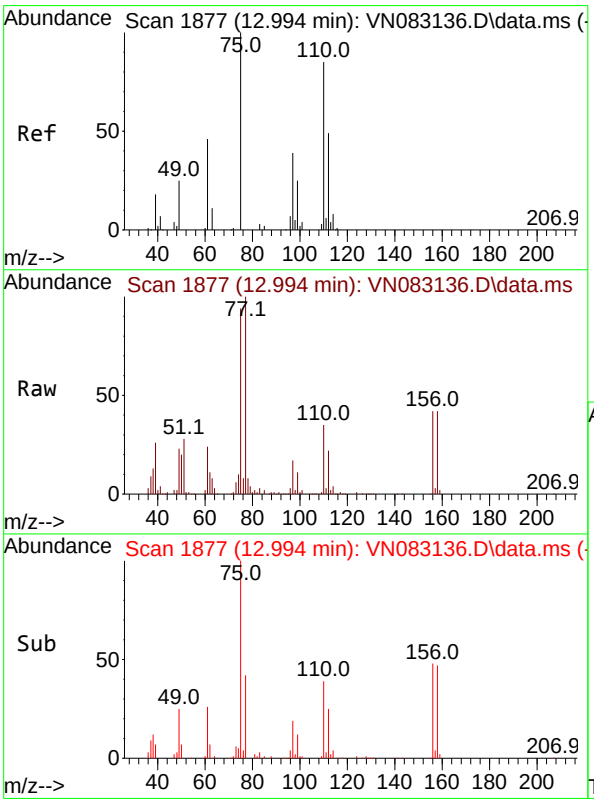
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	64.4	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

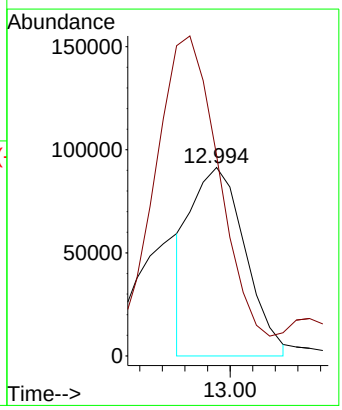


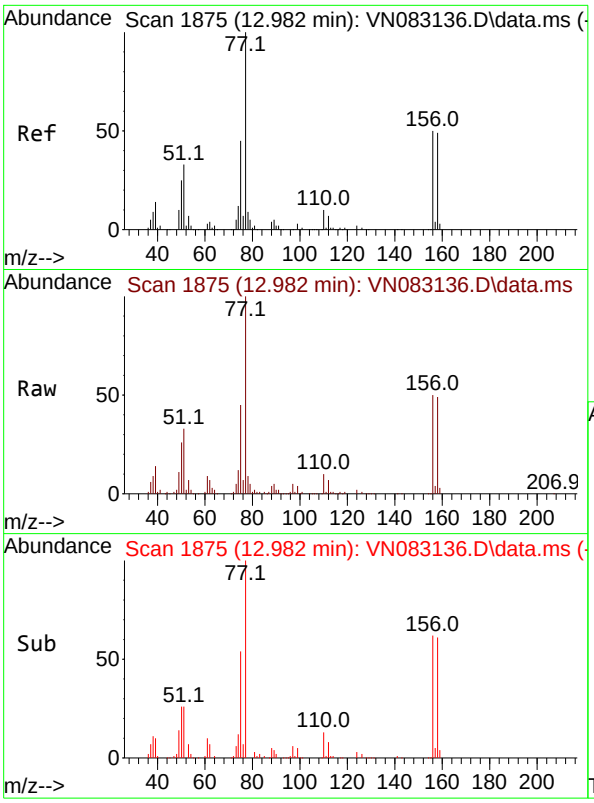


#76
1,2,3-Trichloropropane
Concen: 48.363 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 75 Resp: 152531

Ion	Ratio	Lower	Upper
75	100		
77	207.4	110.9	332.6





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

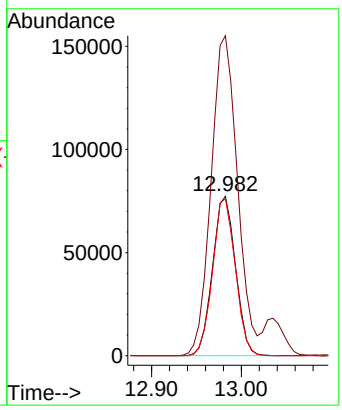
Tgt Ion:156 Resp: 13751

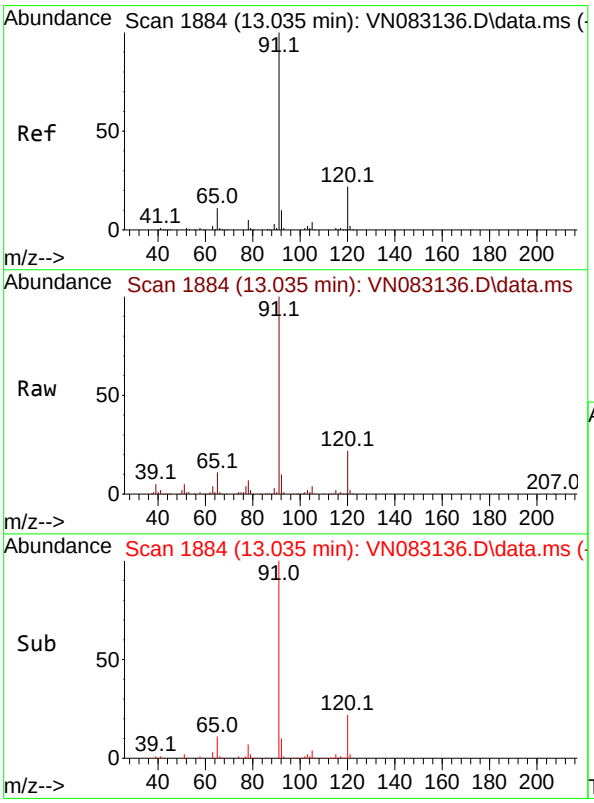
Ion	Ratio	Lower	Upper
156	100		
77	230.1	111.3	333.8
158	97.4	48.3	144.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

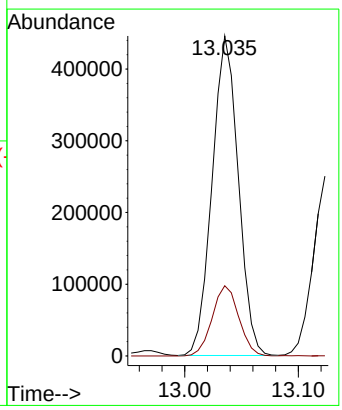


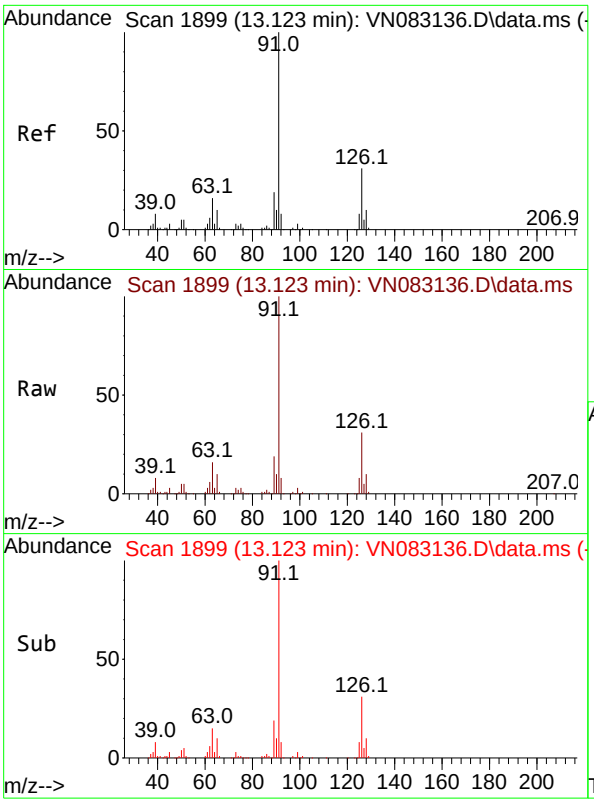


#78
n-propylbenzene
Concen: 51.584 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 712768

Ion	Ratio	Lower	Upper
91	100		
120	22.3	10.9	32.9

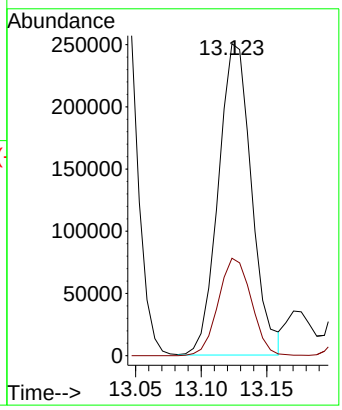




#79
2-Chlorotoluene
Concen: 50.371 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 44126

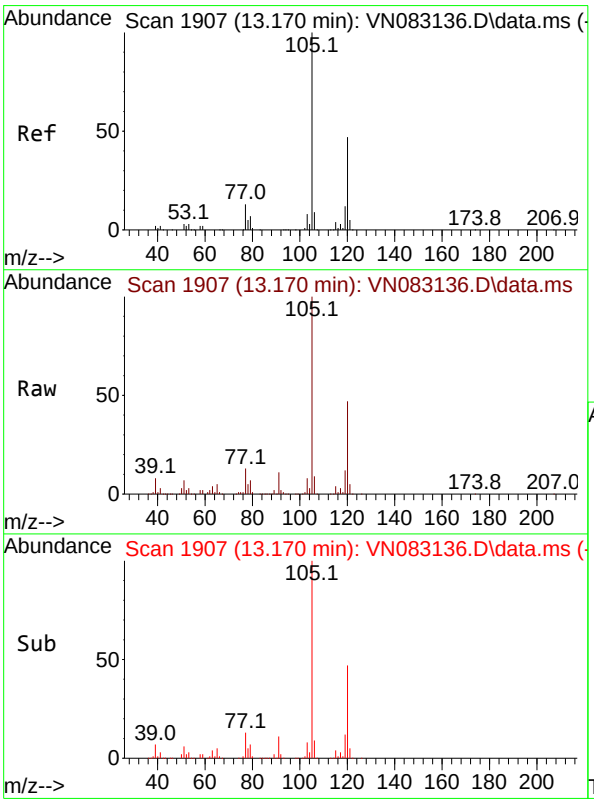
Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

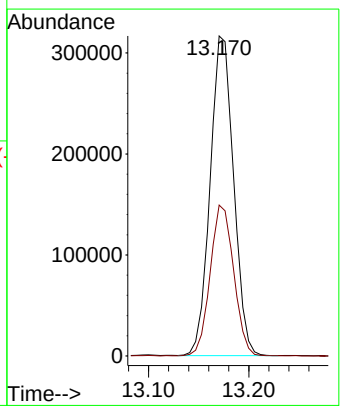
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

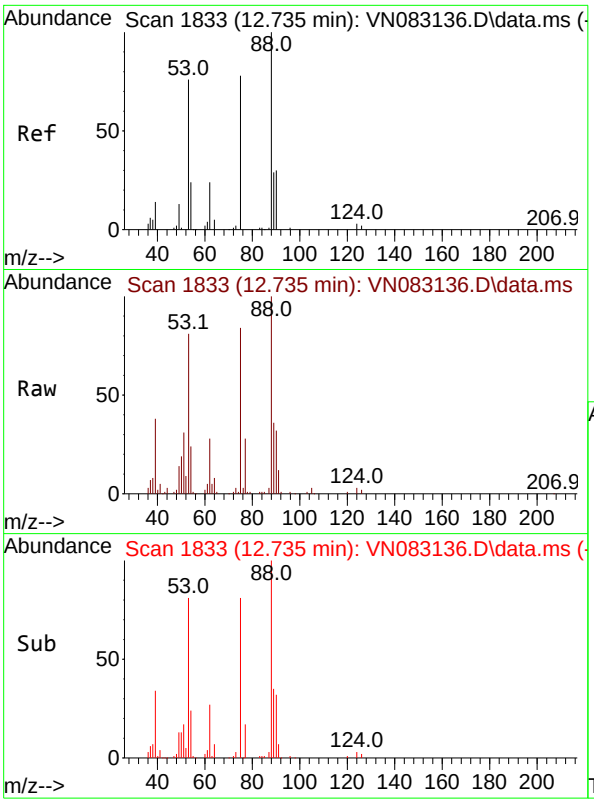


#80
1,3,5-Trimethylbenzene
Concen: 51.254 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:105 Resp: 514918

Ion	Ratio	Lower	Upper
105	100		
120	47.5	24.3	72.8





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

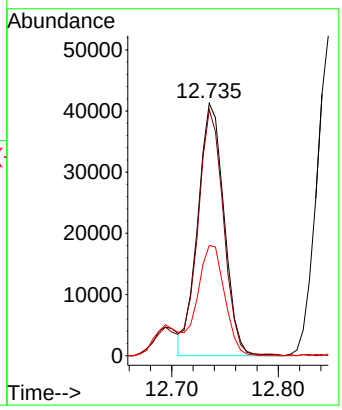
Tgt Ion: 75 Resp: 7077

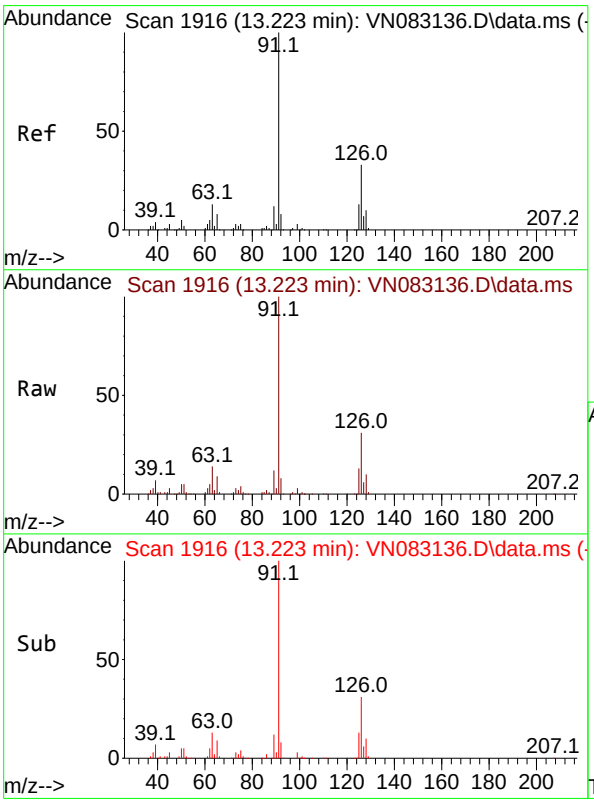
Ion	Ratio	Lower	Upper
75	100		
53	94.2	88.4	132.6
89	44.3	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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

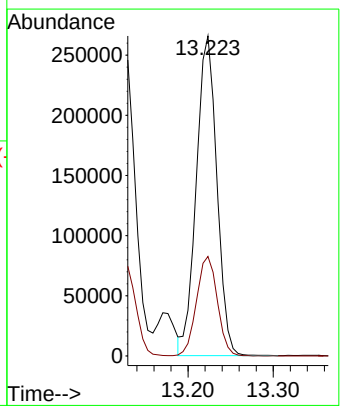


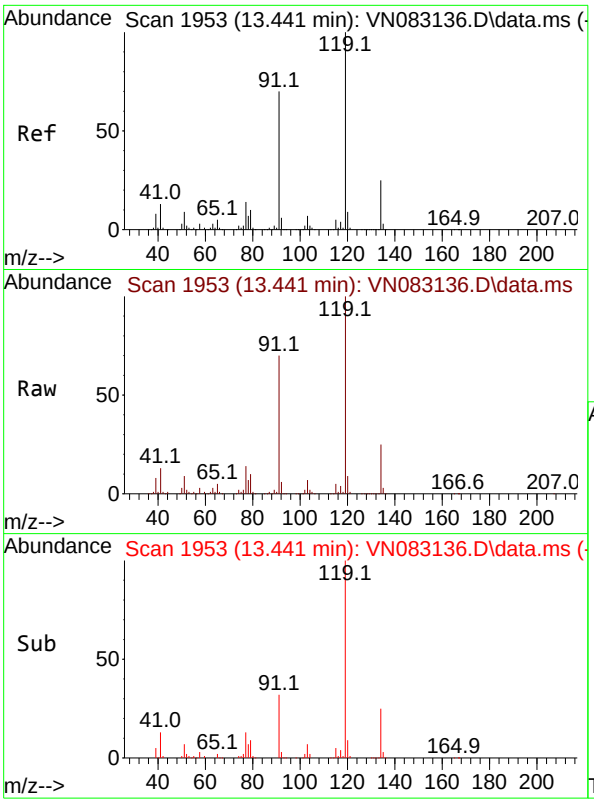


#82
4-Chlorotoluene
Concen: 50.684 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 445369

Ion	Ratio	Lower	Upper
91	100		
126	31.6	16.2	48.6

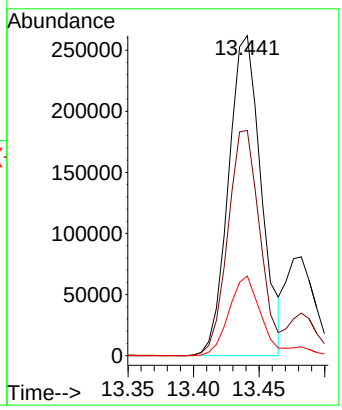




#83
tert-Butylbenzene
Concen: 50.983 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:119 Resp: 45359

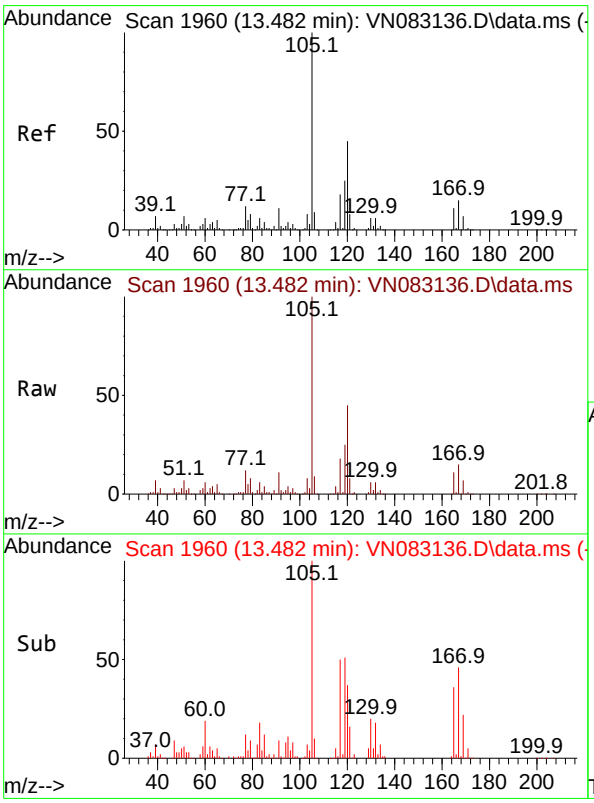
Ion	Ratio	Lower	Upper
119	100		
91	68.9	35.0	105.1
134	24.1	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

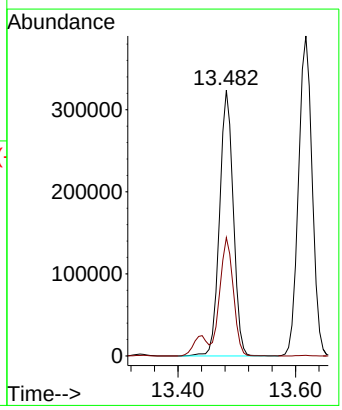
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

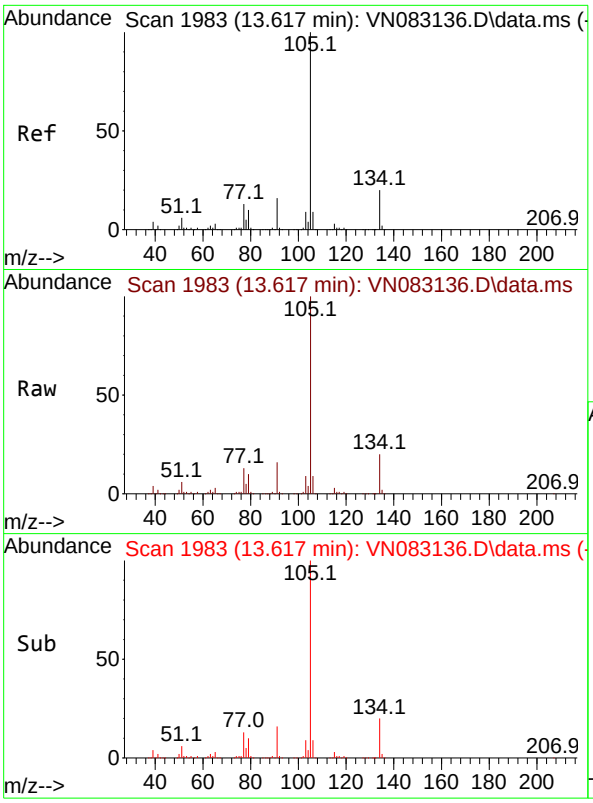


#84
1,2,4-Trimethylbenzene
Concen: 51.778 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:105 Resp: 524226

Ion	Ratio	Lower	Upper
105	100		
120	44.1	21.9	65.8

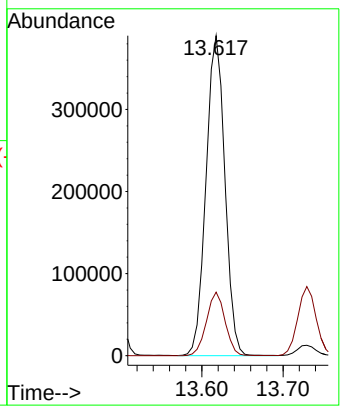




#85
sec-Butylbenzene
Concen: 51.809 ug/l
RT: 13.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:105 Resp: 62895

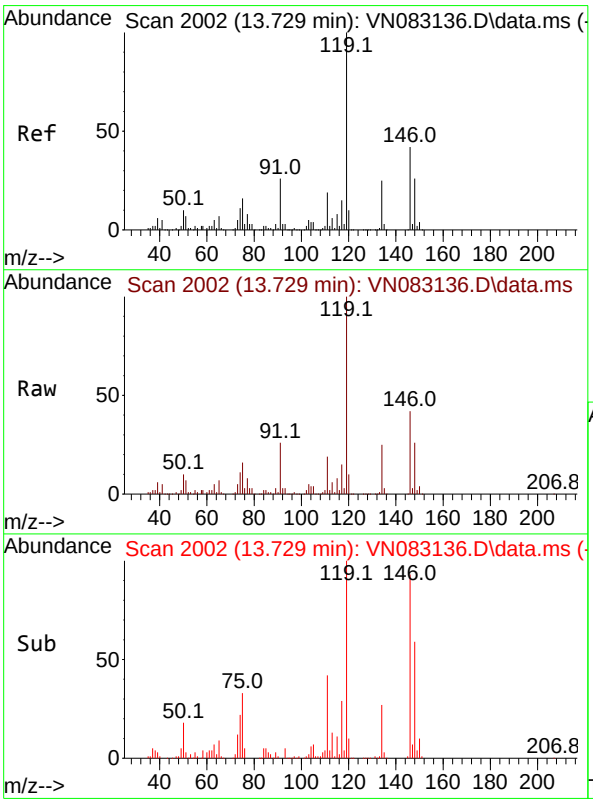
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

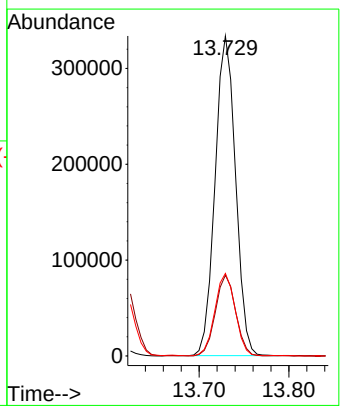
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

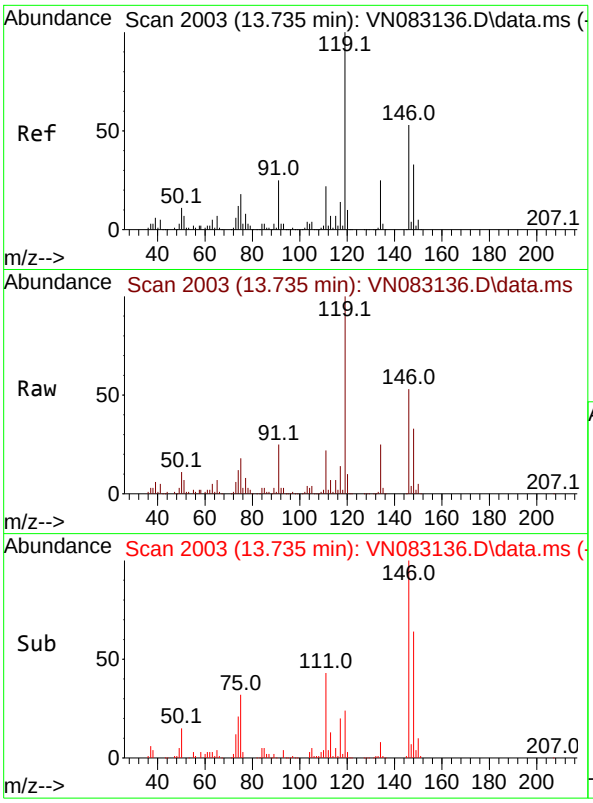


#86
p-Isopropyltoluene
Concen: 52.699 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:119 Resp: 528236

Ion	Ratio	Lower	Upper
119	100		
134	24.8	13.0	39.0
91	25.4	12.3	36.9

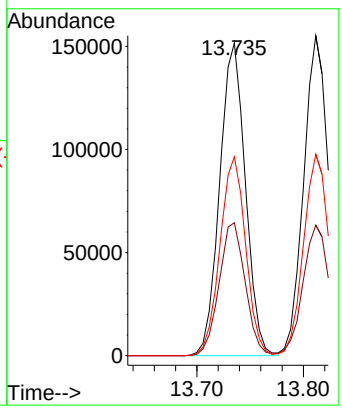




#87
1,3-Dichlorobenzene
Concen: 50.651 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:146 Resp: 25405

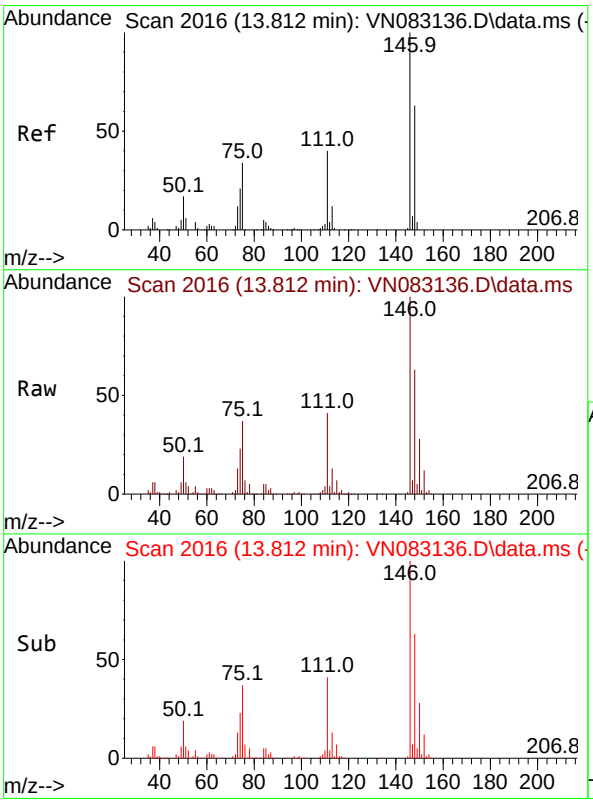
Ion	Ratio	Lower	Upper
146	100		
111	43.1	20.6	61.9
148	63.5	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

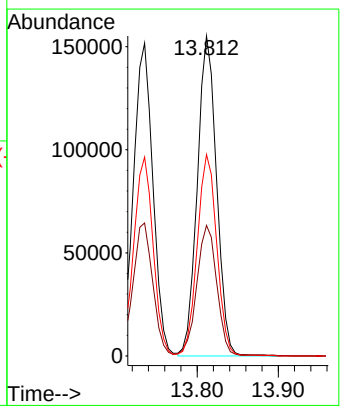
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

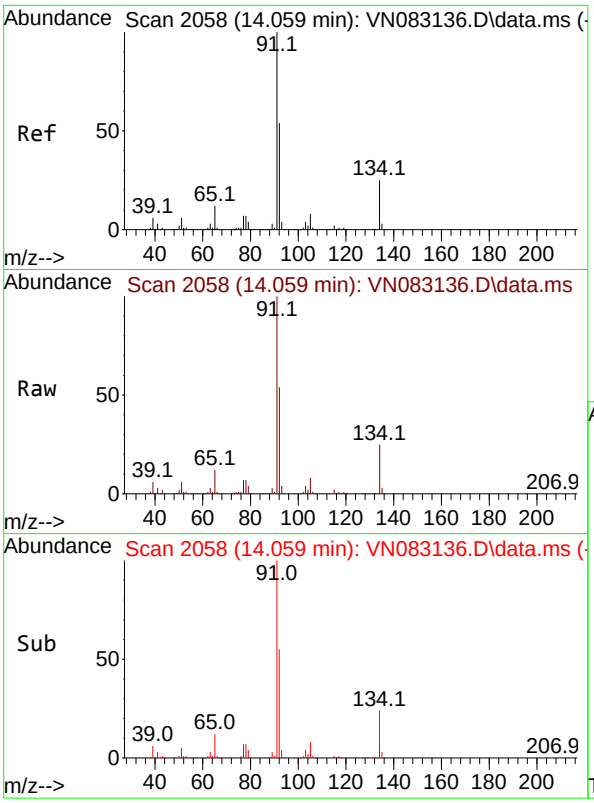


#88
1,4-Dichlorobenzene
Concen: 50.589 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:146 Resp: 255814

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.1	60.3
148	64.0	32.2	96.6

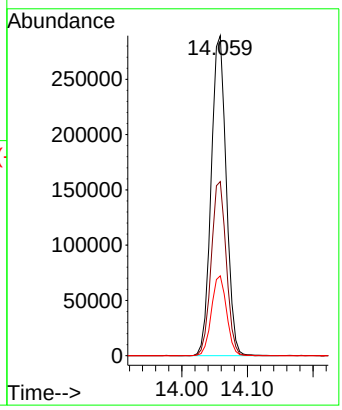




#89
n-Butylbenzene
Concen: 53.120 ug/l
RT: 14.059 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 46137

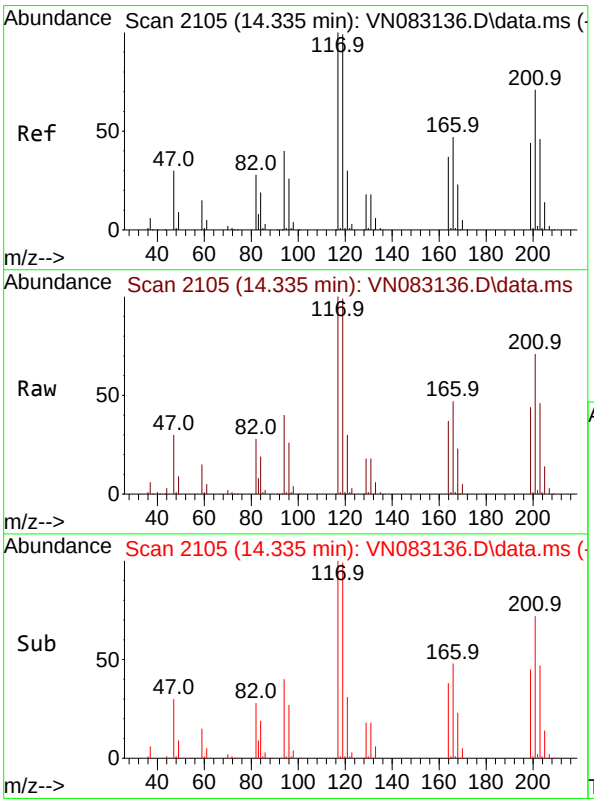
Ion	Ratio	Lower	Upper
91	100		
92	54.4	26.1	78.3
134	25.1	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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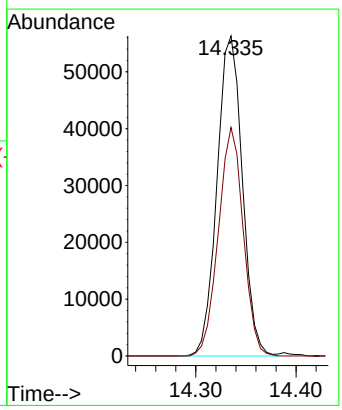
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

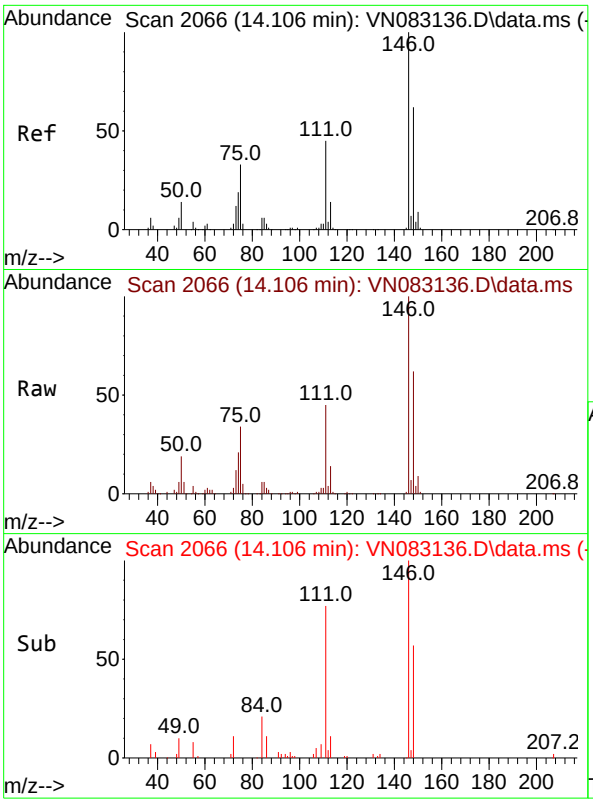


#90
Hexachloroethane
Concen: 51.037 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:117 Resp: 98836

Ion	Ratio	Lower	Upper
117	100		
201	69.9	35.8	107.3

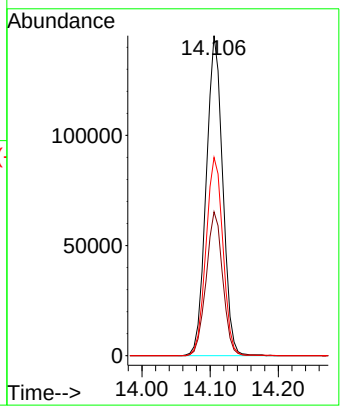




#91
1,2-Dichlorobenzene
Concen: 50.365 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:146 Resp: 24446

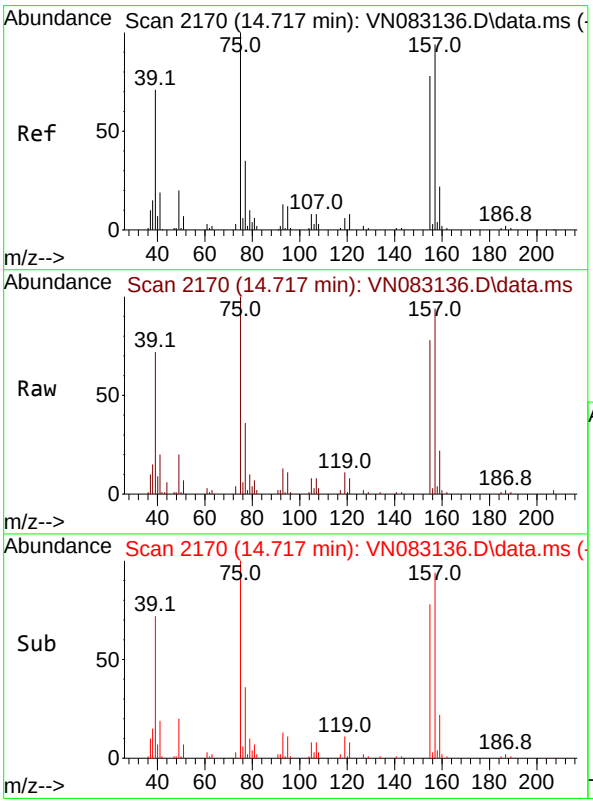
Ion	Ratio	Lower	Upper
146	100		
111	45.3	21.4	64.2
148	63.6	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

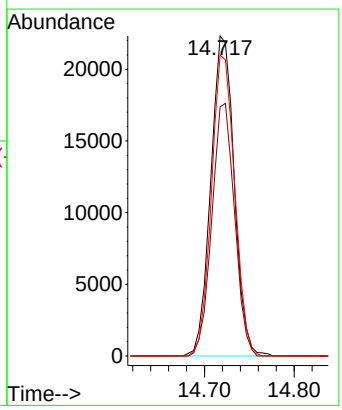
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

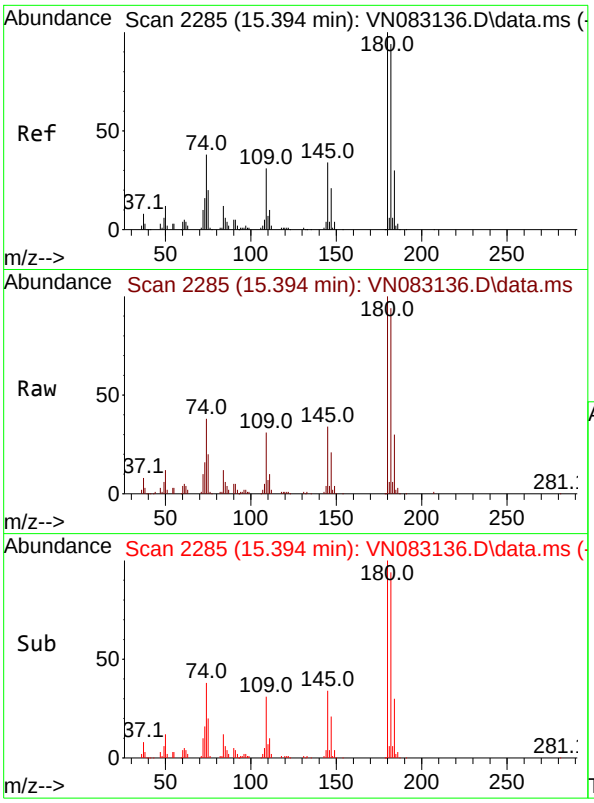


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.017 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 75 Resp: 40369

Ion	Ratio	Lower	Upper
75	100		
155	76.6	36.6	109.8
157	93.4	46.9	140.6

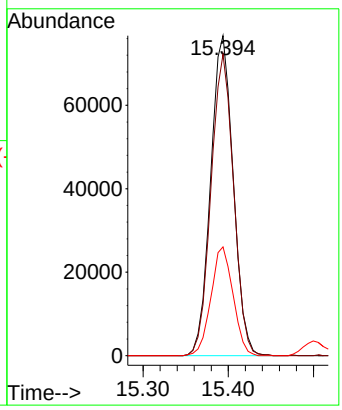




#93
1,2,4-Trichlorobenzene
Concen: 51.937 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:180 Resp: 14122

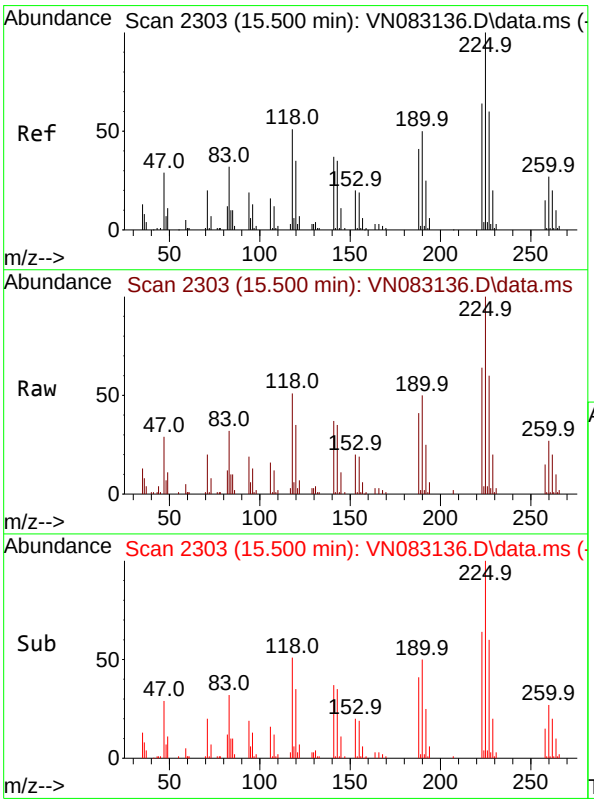
Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.3	141.8
145	33.3	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

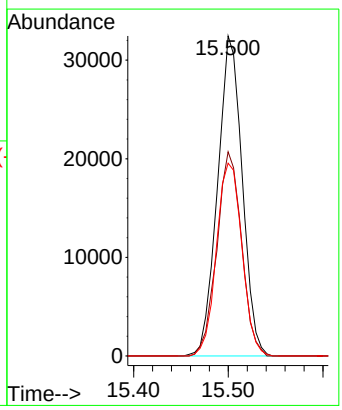
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

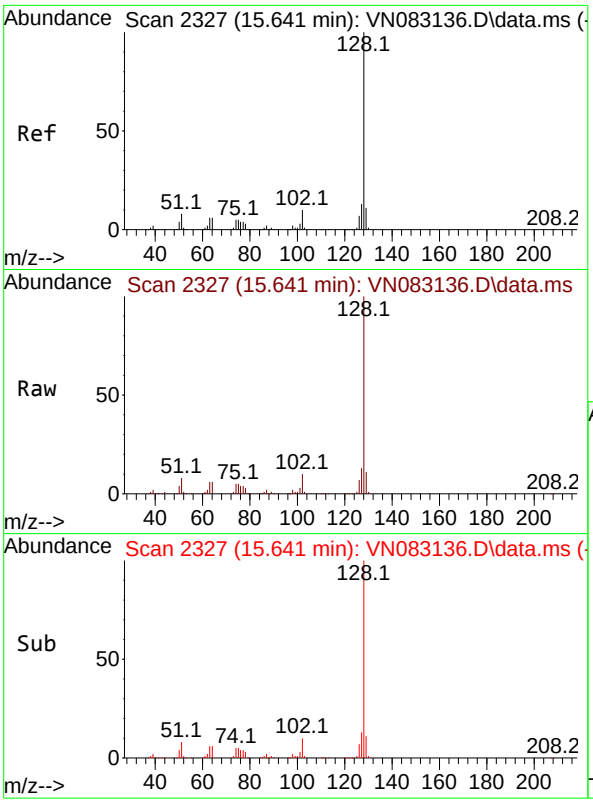


#94
Hexachlorobutadiene
Concen: 48.509 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:225 Resp: 58664

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.9	95.7
227	62.3	32.5	97.5

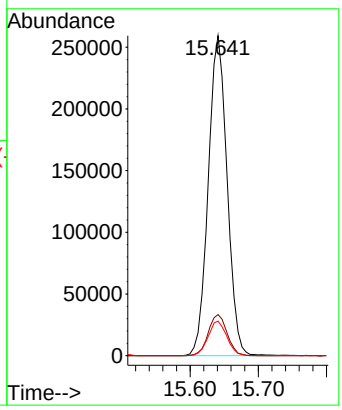




#95
Naphthalene
Concen: 51.844 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:128 Resp: 49937

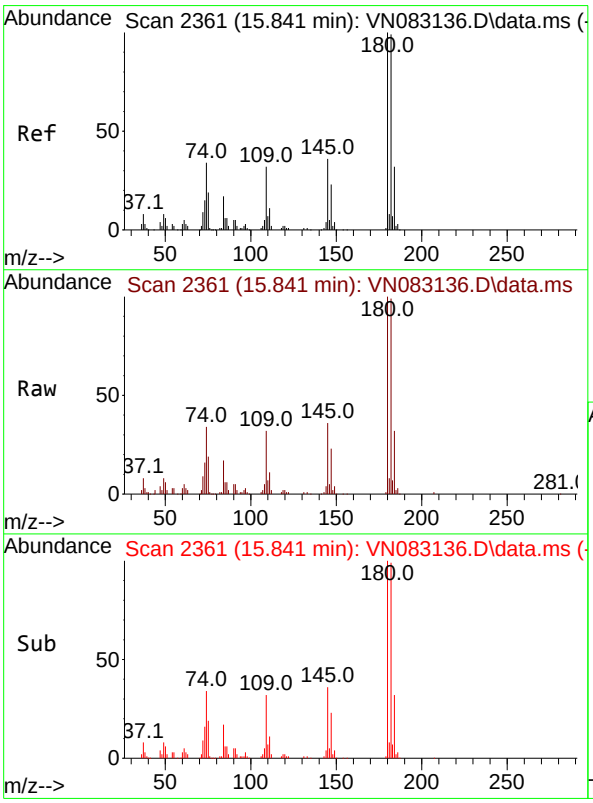
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.7	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

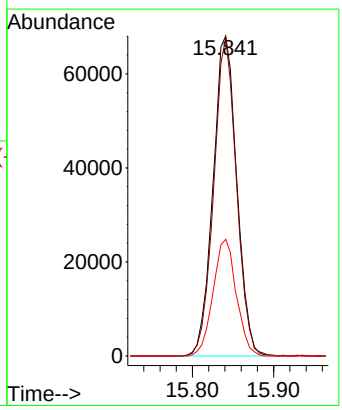
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



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

Tgt Ion:180 Resp: 138125

Ion	Ratio	Lower	Upper
180	100		
182	95.2	48.9	146.8
145	35.8	16.8	50.4



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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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

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

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

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

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

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

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

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

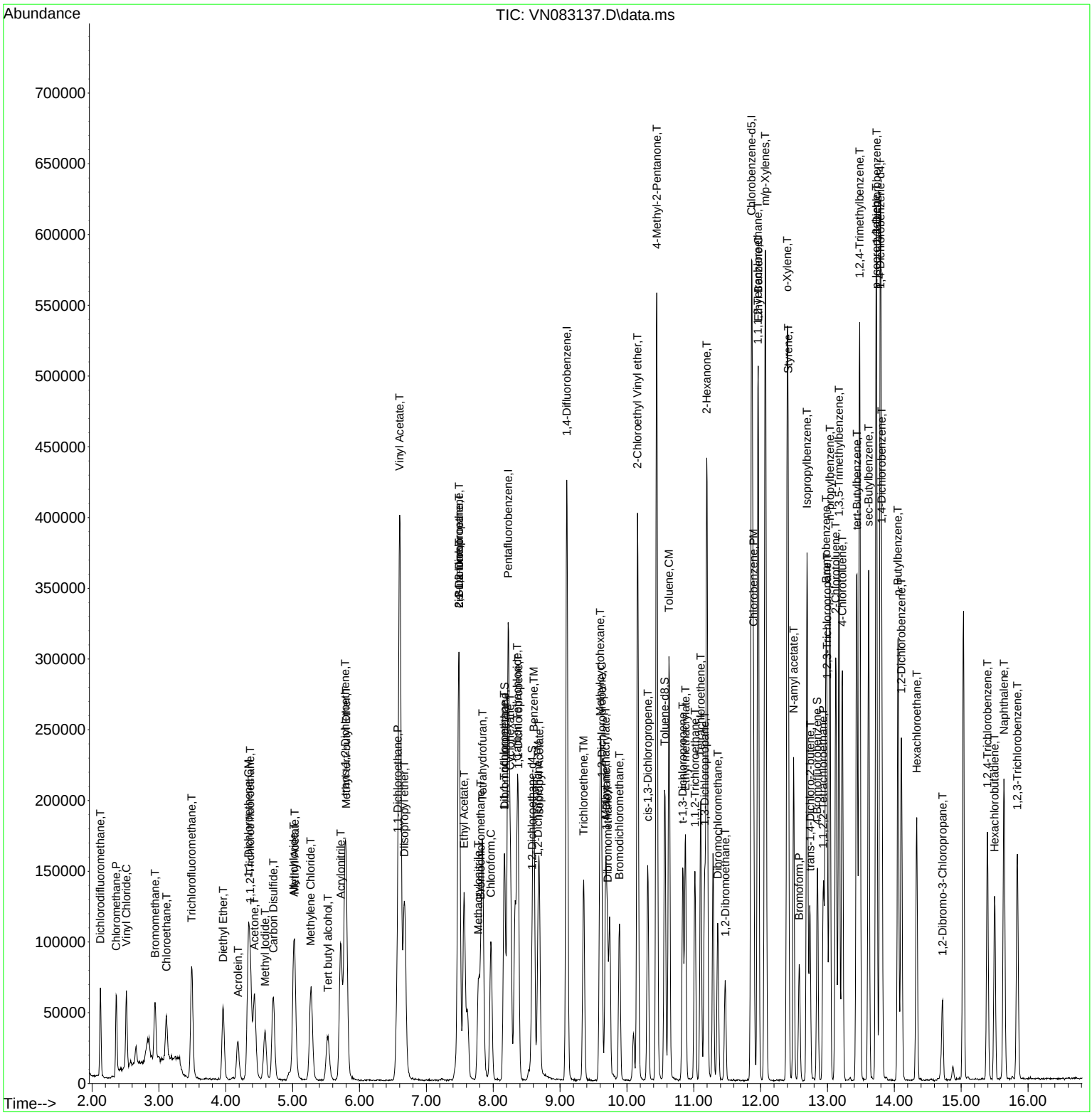
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083137.D
Acq On : 07 Aug 2024 11:22
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

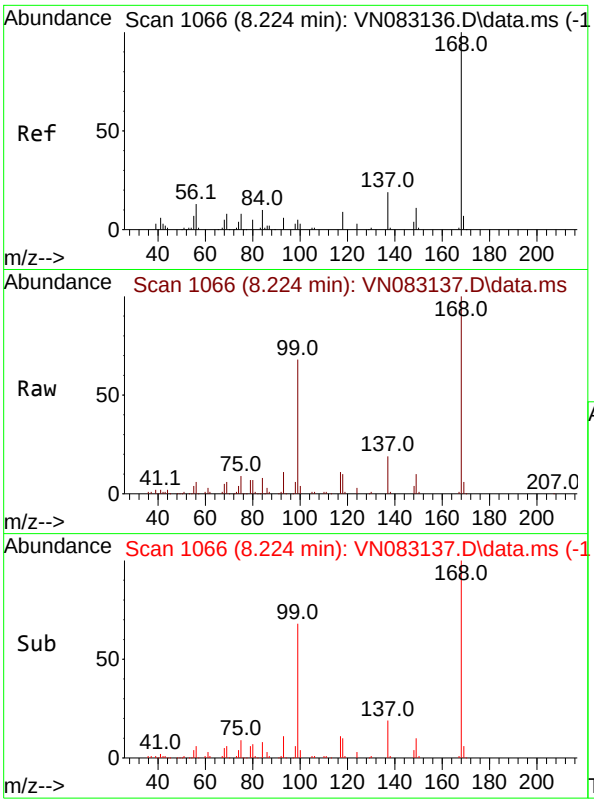
Quant Time: Aug 08 06:16:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

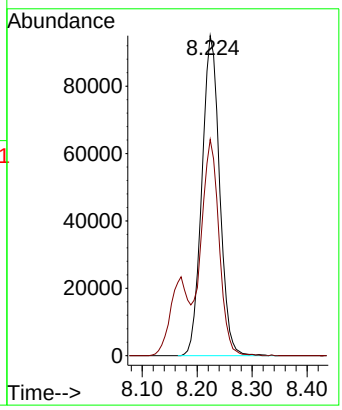




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:168 Resp: 21291

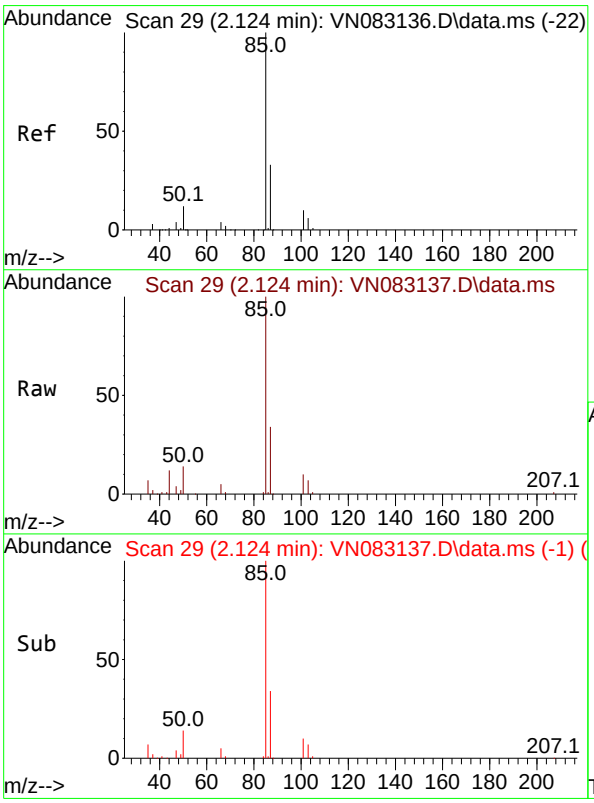
Ion	Ratio	Lower	Upper
168	100		
99	67.5	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

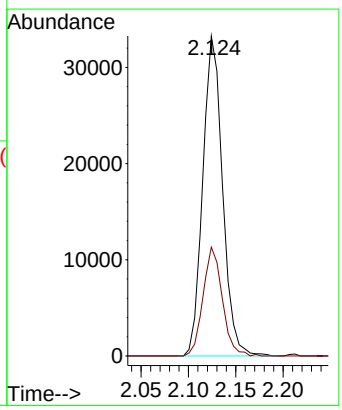
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

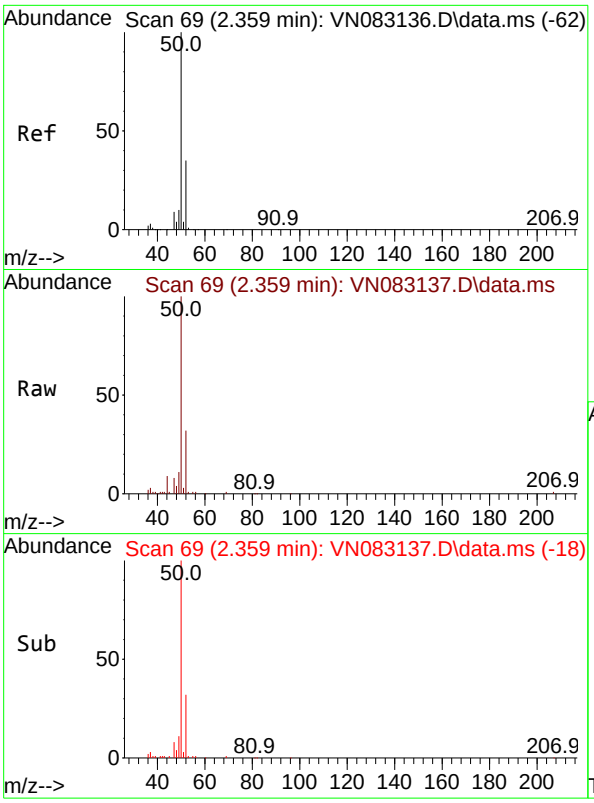


#2
Dichlorodifluoromethane
Concen: 19.959 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 85 Resp: 48191

Ion	Ratio	Lower	Upper
85	100		
87	34.0	15.7	47.0

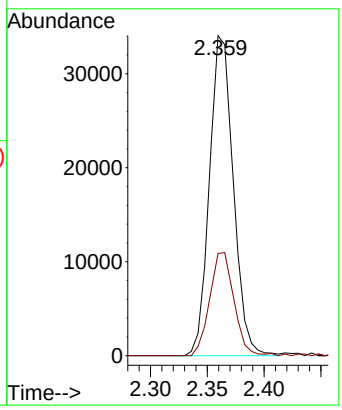




#3
Chloromethane
Concen: 20.137 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 50 Resp: 4977

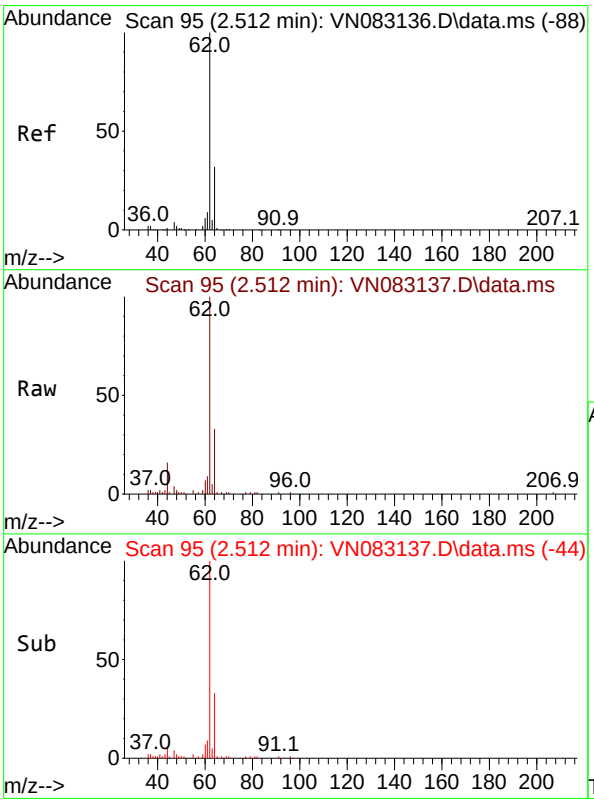
Ion	Ratio	Lower	Upper
50	100		
52	31.9	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

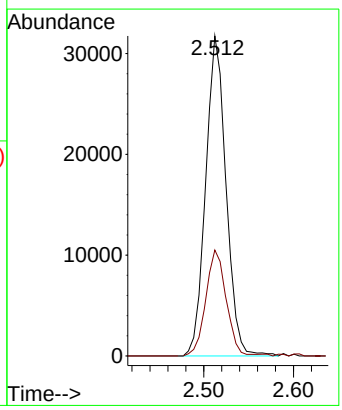
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

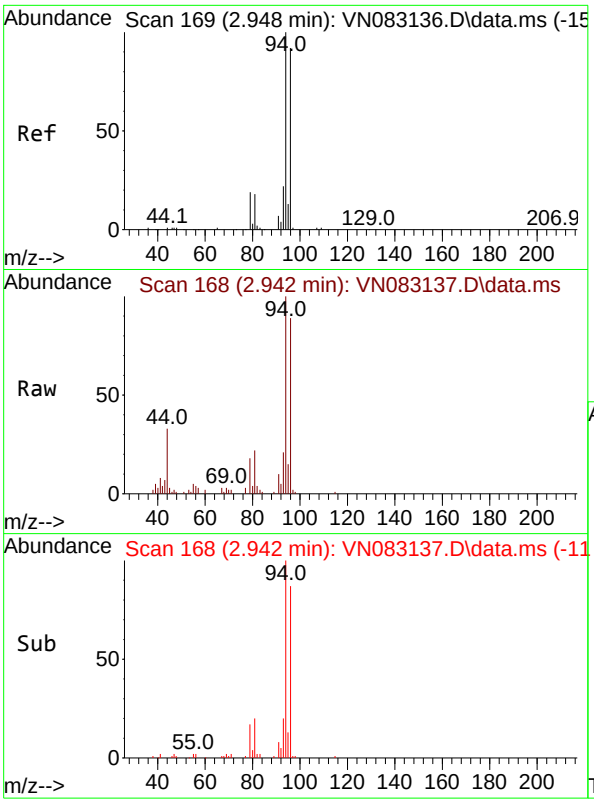


#4
Vinyl Chloride
Concen: 19.866 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 62 Resp: 50108

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.0	37.6





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

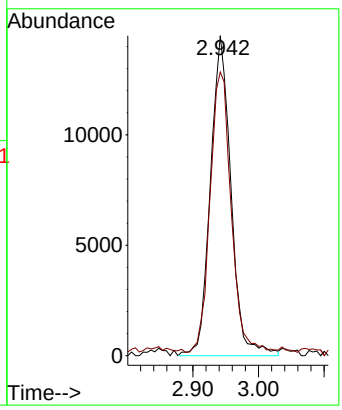
Tgt Ion: 94 Resp: 3152

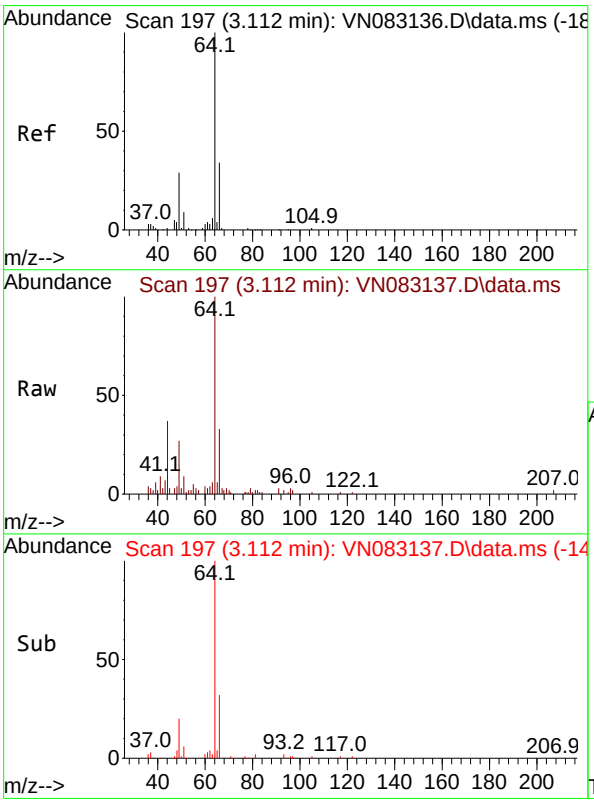
Ion	Ratio	Lower	Upper
94	100		
96	87.1	78.0	117.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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

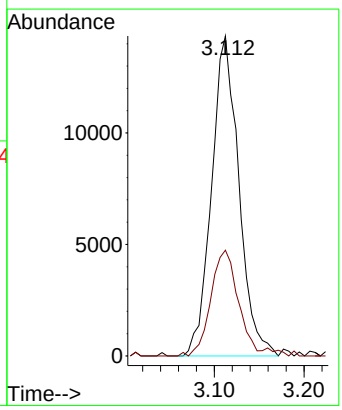


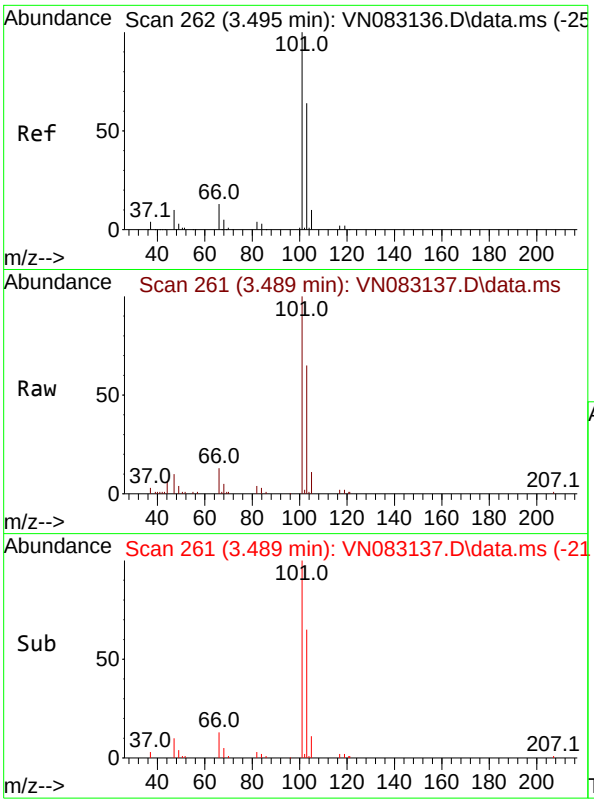


#6
Chloroethane
Concen: 19.221 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 64 Resp: 30331

Ion	Ratio	Lower	Upper
64	100		
66	33.0	26.6	40.0





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

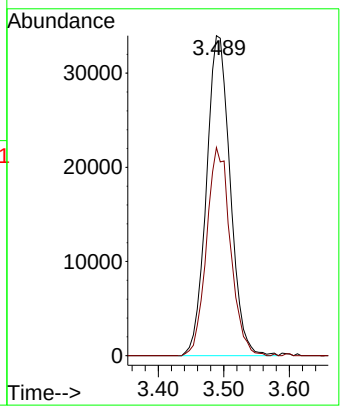
Tgt Ion:101 Resp: 8555

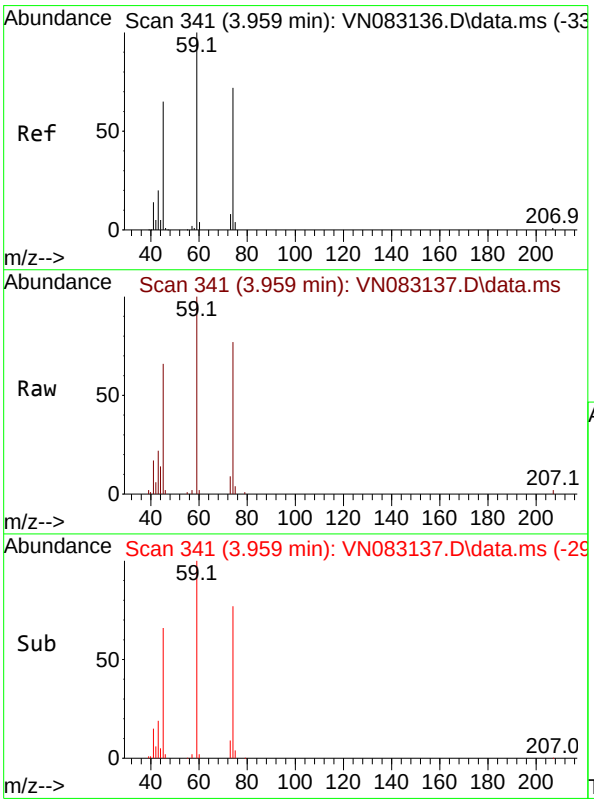
Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.7	79.1

Instrument :
MSVOA_N
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VSTDICC020

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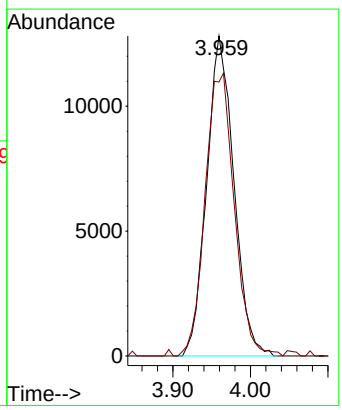


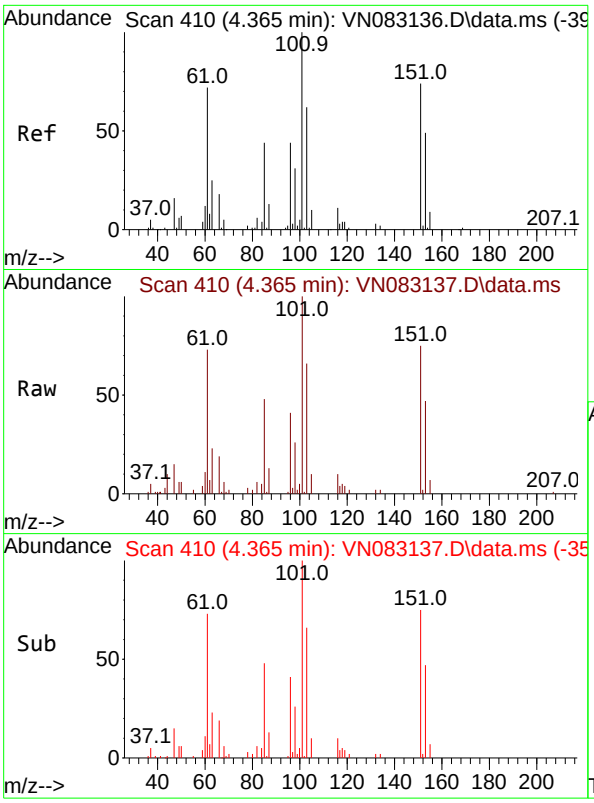


#8
Diethyl Ether
Concen: 20.158 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 74 Resp: 31256

Ion	Ratio	Lower	Upper
74	100		
45	94.8	55.5	166.3

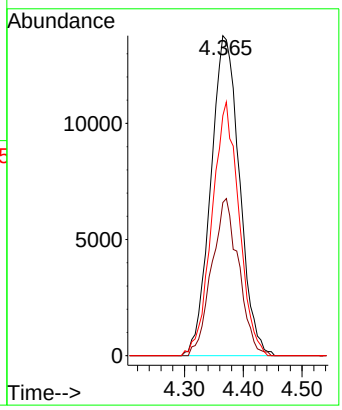




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.321 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:101 Resp: 4668

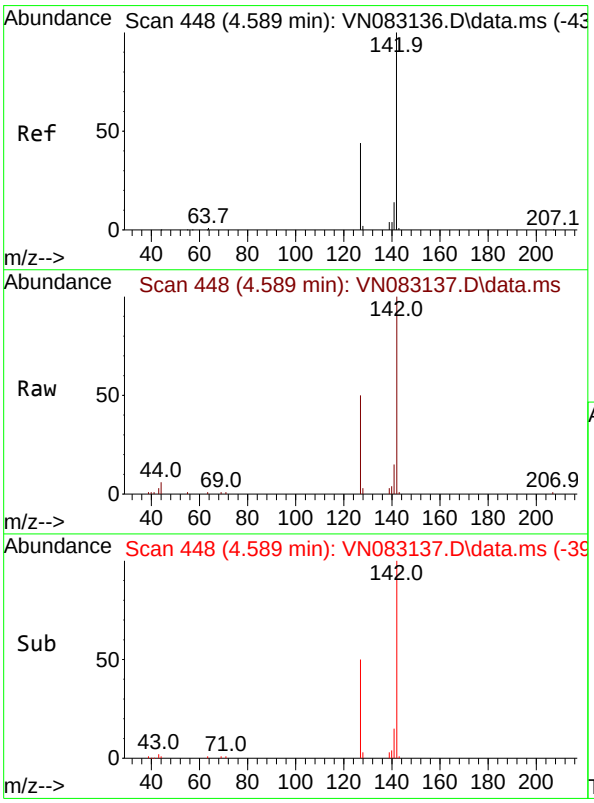
Ion	Ratio	Lower	Upper
101	100		
85	46.5	38.3	57.5
151	74.6	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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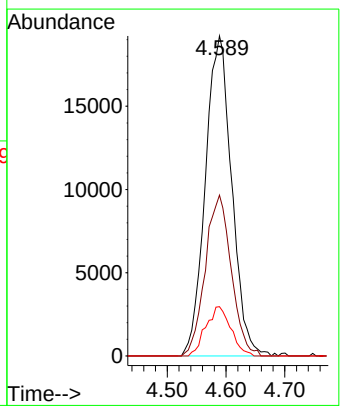
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

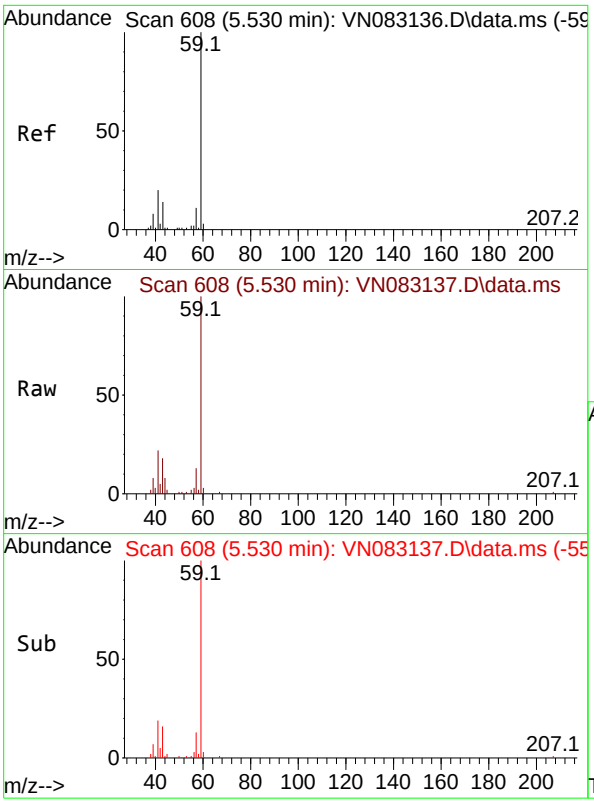


#10
Methyl Iodide
Concen: 19.810 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:142 Resp: 59865

Ion	Ratio	Lower	Upper
142	100		
127	50.3	37.5	56.3
141	15.4	13.1	19.7

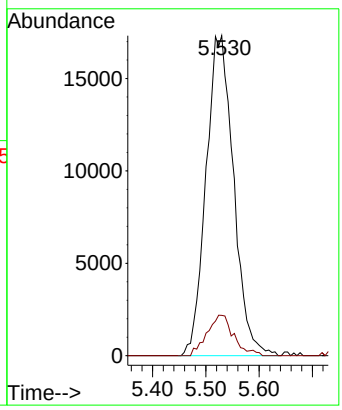




#11
Tert butyl alcohol
Concen: 98.946 ug/l
RT: 5.530 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 59 Resp: 6231

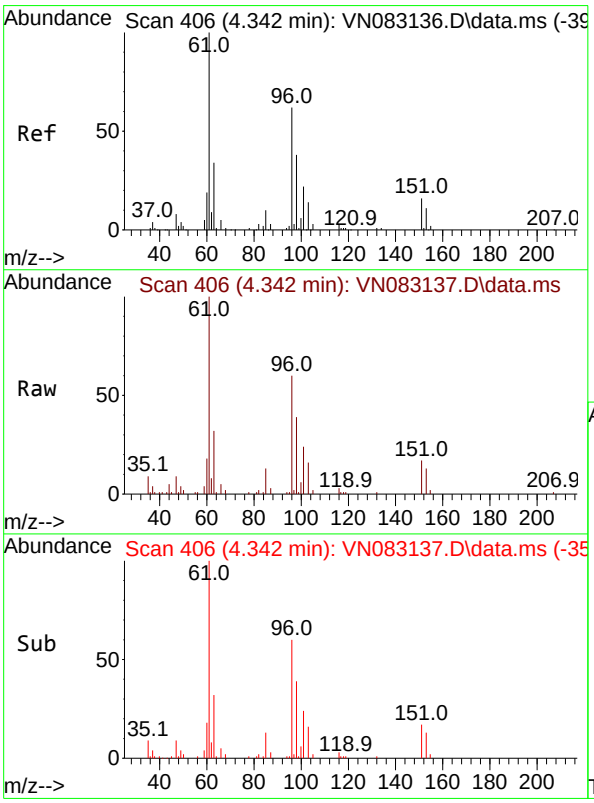
Ion	Ratio	Lower	Upper
59	100		
57	12.2	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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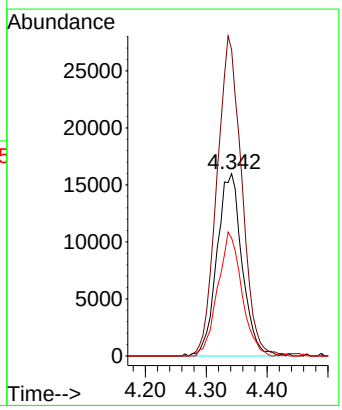
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

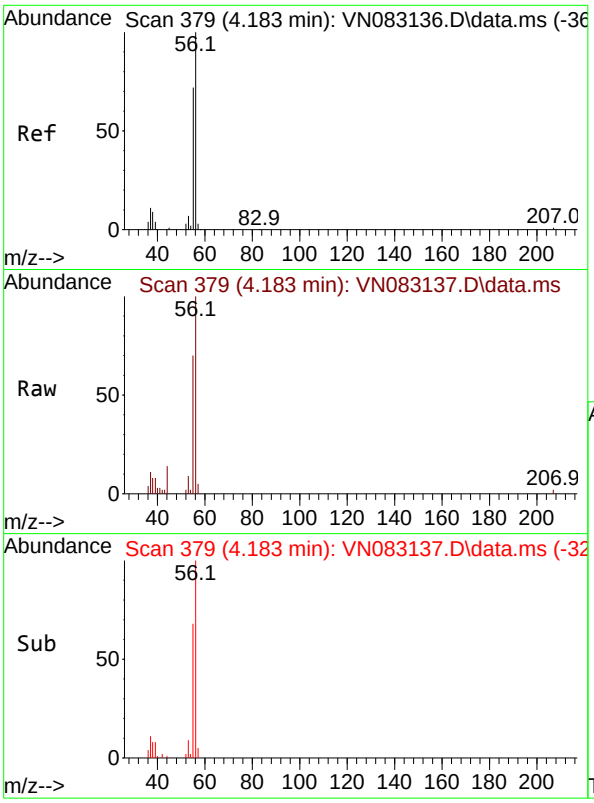


#12
1,1-Dichloroethene
Concen: 19.399 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 96 Resp: 45786

Ion	Ratio	Lower	Upper
96	100		
61	167.8	149.7	224.5
98	64.7	50.1	75.1

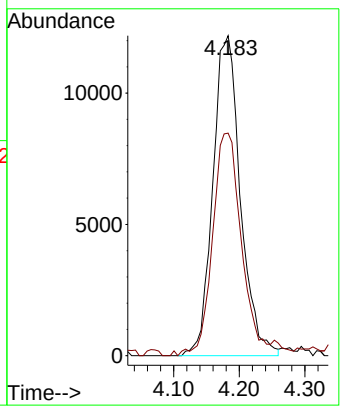




#13
Acrolein
Concen: 86.524 ug/l
RT: 4.183 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 56 Resp: 3551

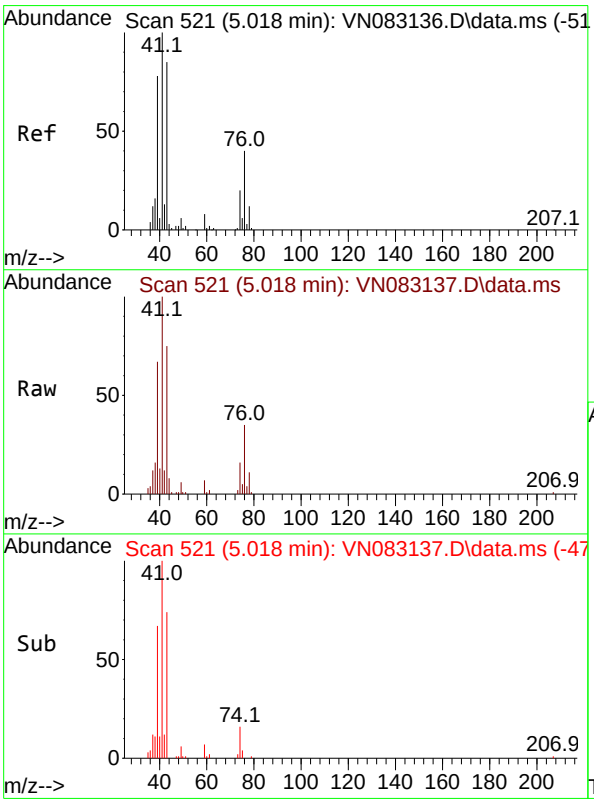
Ion	Ratio	Lower	Upper
56	100		
55	72.6	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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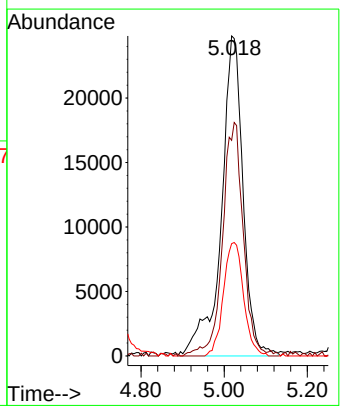
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

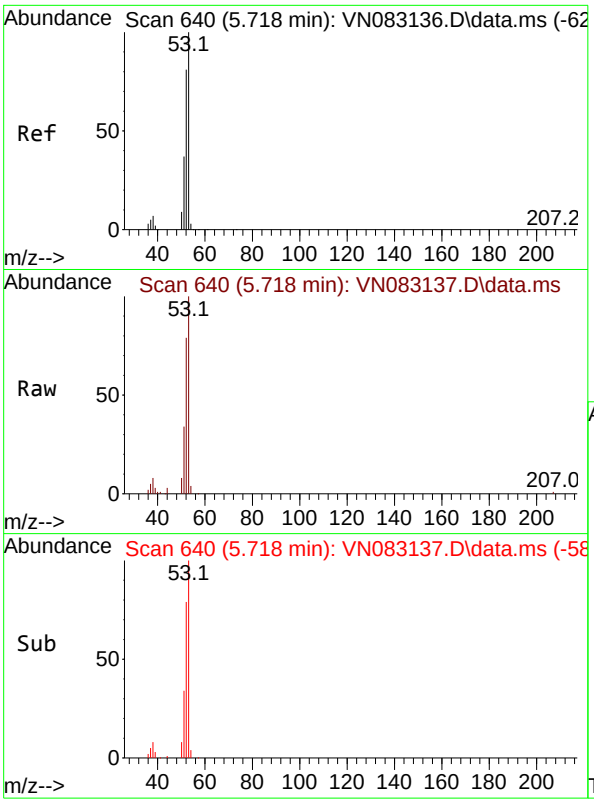


#14
Allyl chloride
Concen: 20.301 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 41 Resp: 90544

Ion	Ratio	Lower	Upper
41	100		
39	69.0	67.8	101.6
76	32.7	25.8	38.8





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

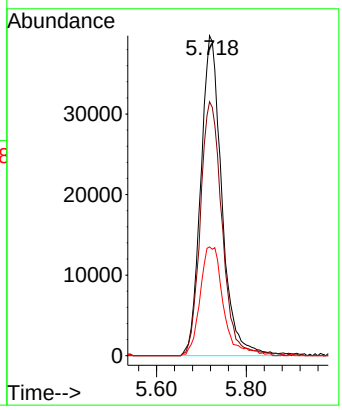
Tgt Ion: 53 Resp: 12931

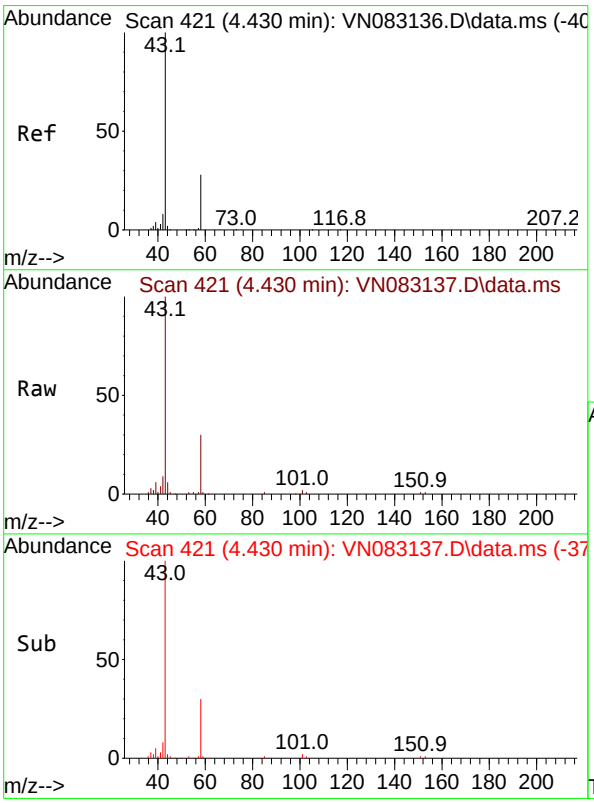
Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.6	100.0
51	37.7	30.1	45.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :John Carlone 08/08/2024
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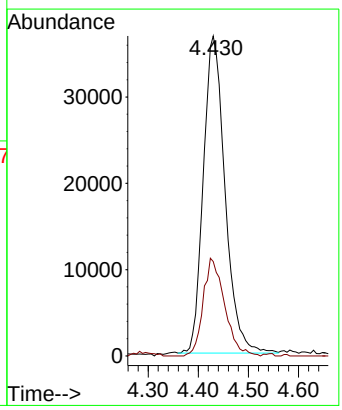


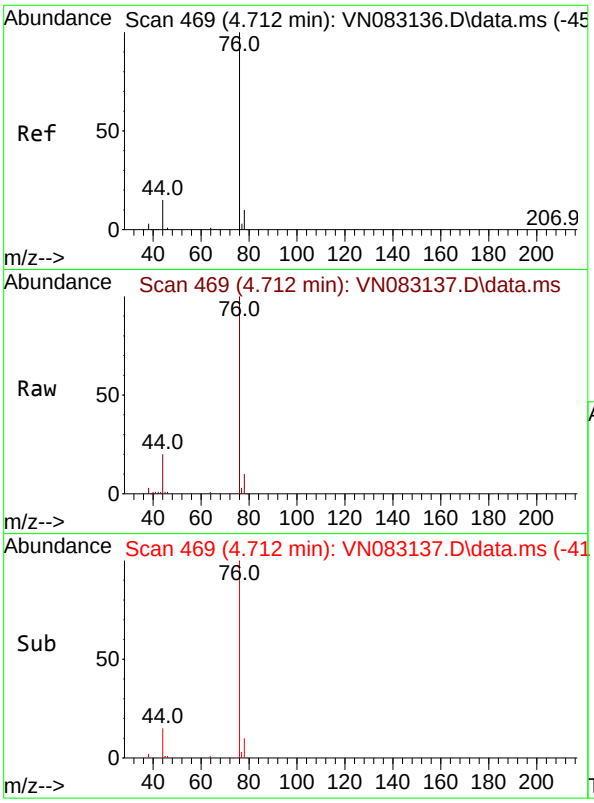


#16
Acetone
Concen: 93.330 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 110676

Ion	Ratio	Lower	Upper
43	100		
58	29.8	21.8	32.6

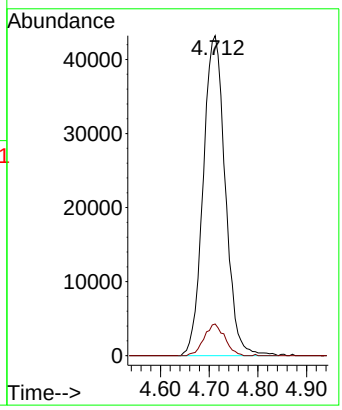




#17
Carbon Disulfide
Concen: 19.683 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 76 Resp: 13592

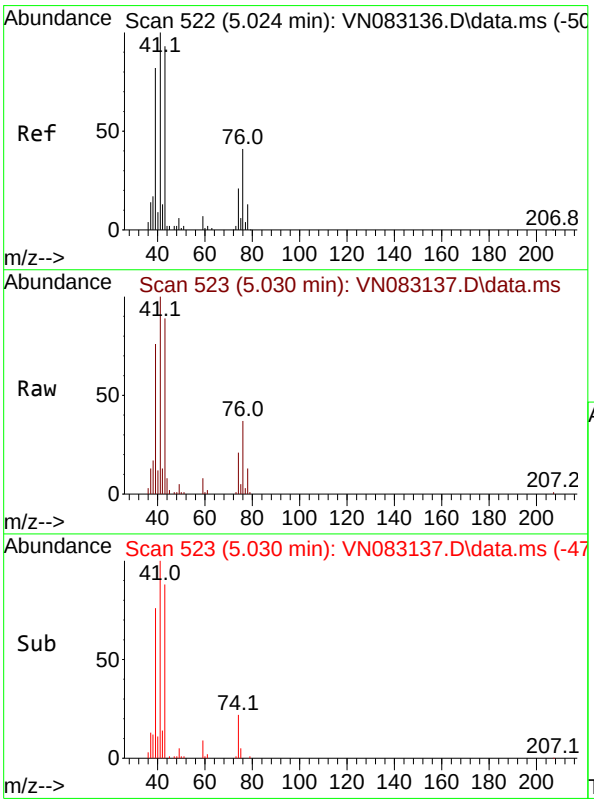
Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

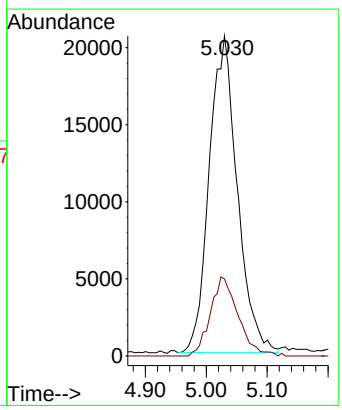
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

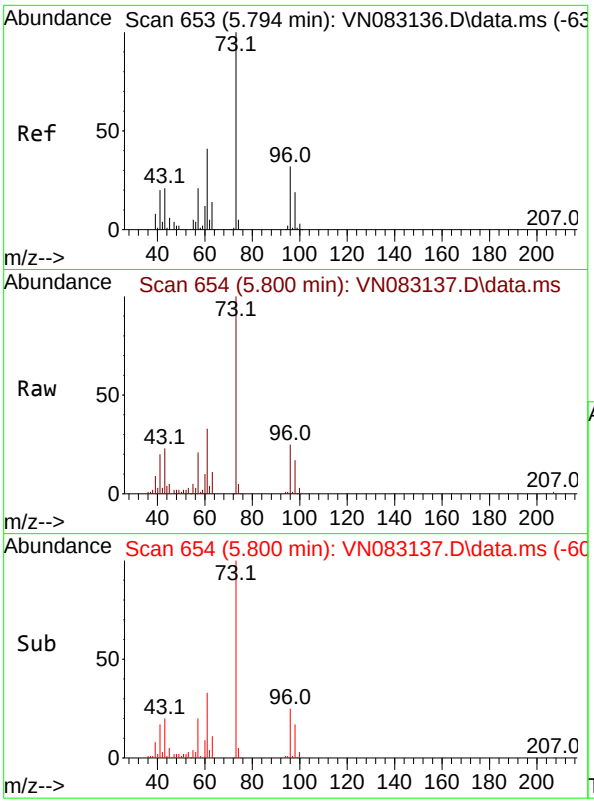


#18
Methyl Acetate
Concen: 18.644 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 65871

Ion	Ratio	Lower	Upper
43	100		
74	24.5	16.3	24.5#

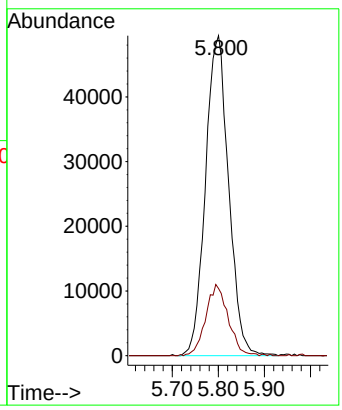




#19
Methyl tert-butyl Ether
Concen: 20.277 ug/l
RT: 5.800 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 73 Resp: 17274

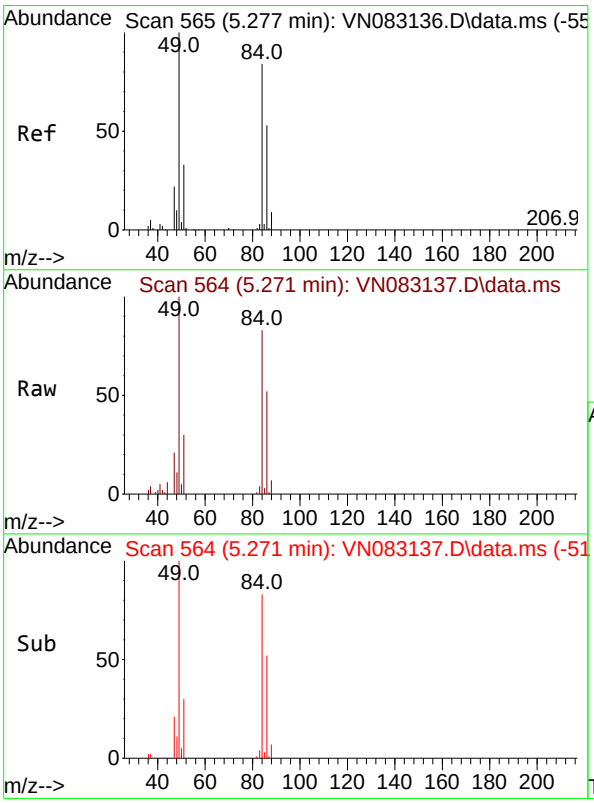
Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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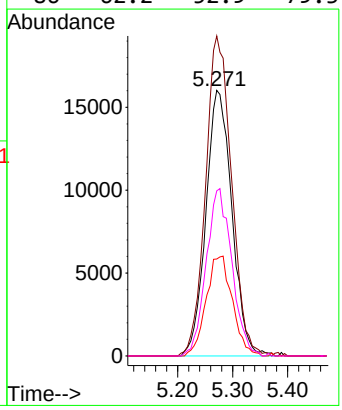
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

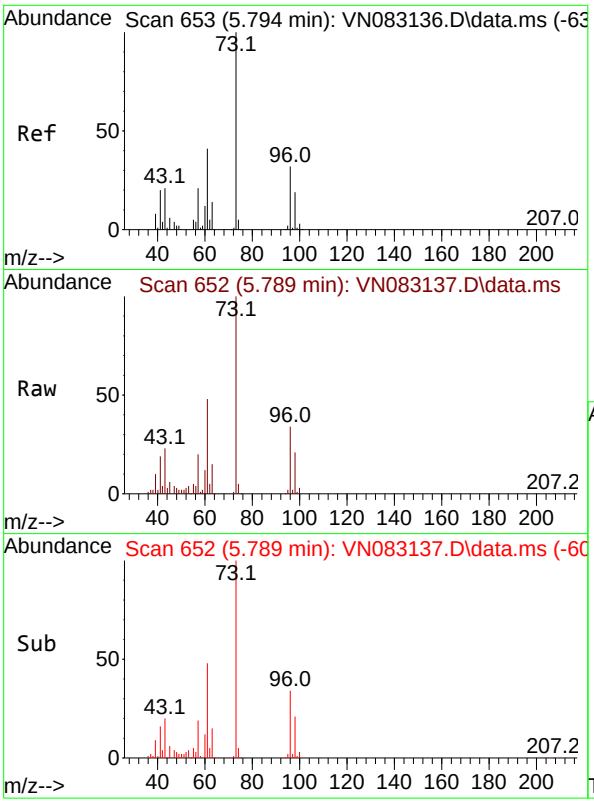


#20
Methylene Chloride
Concen: 19.316 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 84 Resp: 52716

Ion	Ratio	Lower	Upper
84	100		
49	120.5	119.6	179.4
51	36.5	34.8	52.2
86	62.2	52.9	79.3

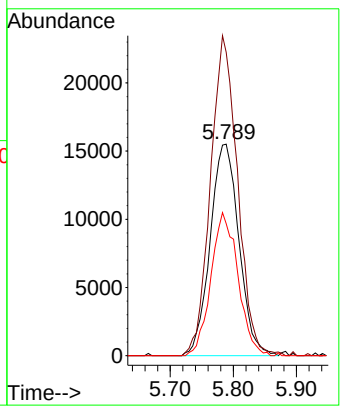




#21
trans-1,2-Dichloroethene
Concen: 20.137 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 96 Resp: 4912

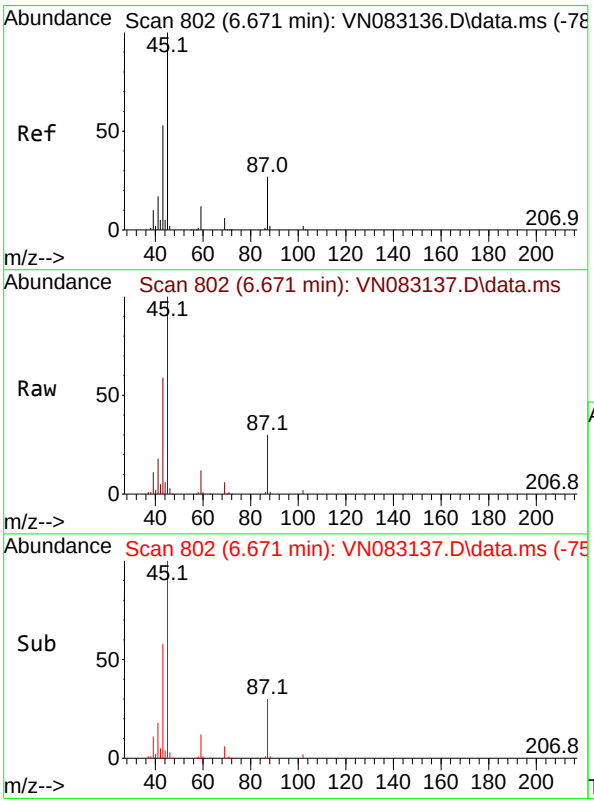
Ion	Ratio	Lower	Upper
96	100		
61	143.3	123.4	185.2
98	62.4	49.3	73.9



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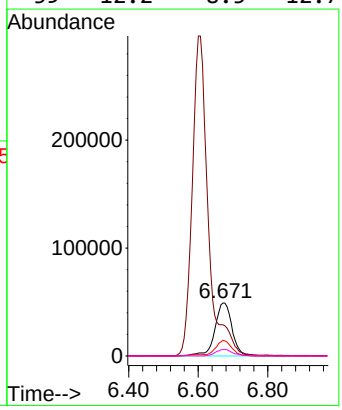
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

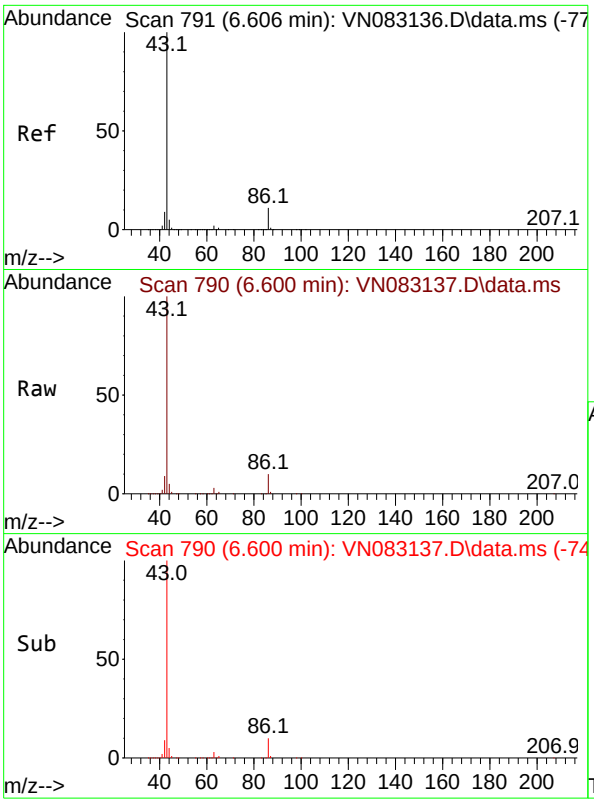


#22
Diisopropyl ether
Concen: 20.070 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 45 Resp: 168267

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

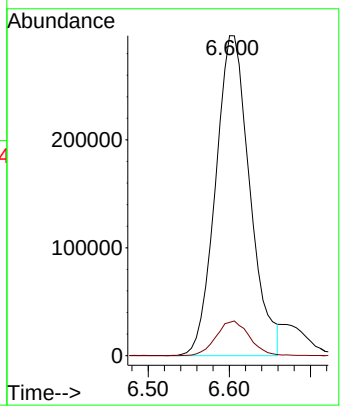




#23
Vinyl Acetate
Concen: 101.401 ug/l m
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 87121

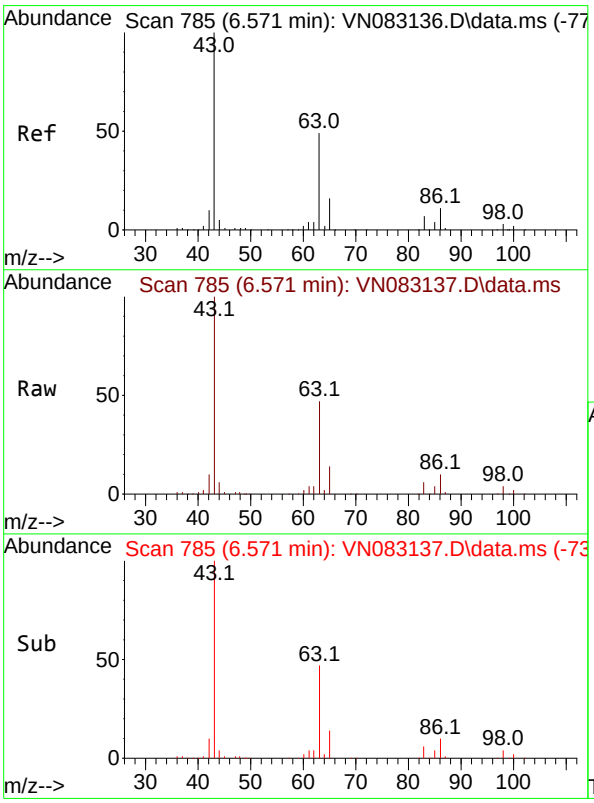
Ion	Ratio	Lower	Upper
43	100		
86	10.4	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

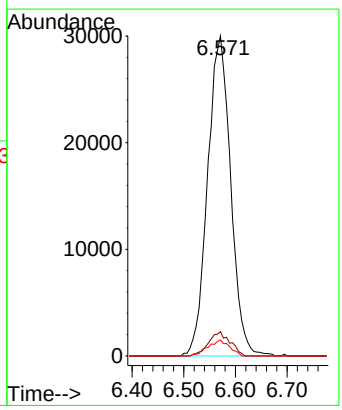
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

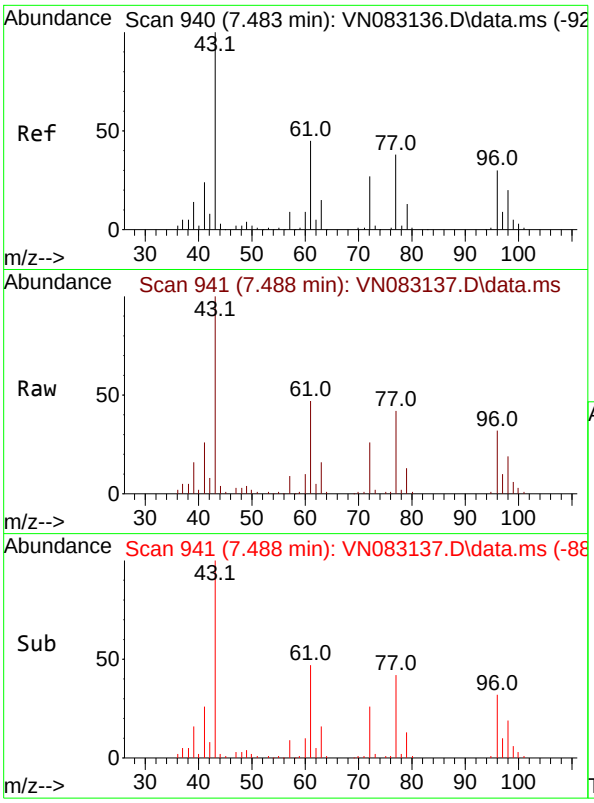


#24
1,1-Dichloroethane
Concen: 20.366 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 63 Resp: 93066

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.3	9.9
100	5.0	2.0	6.0

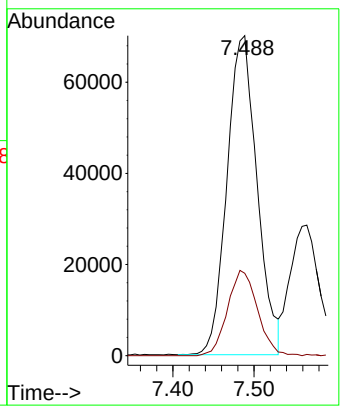




#25
2-Butanone
Concen: 99.107 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 18045

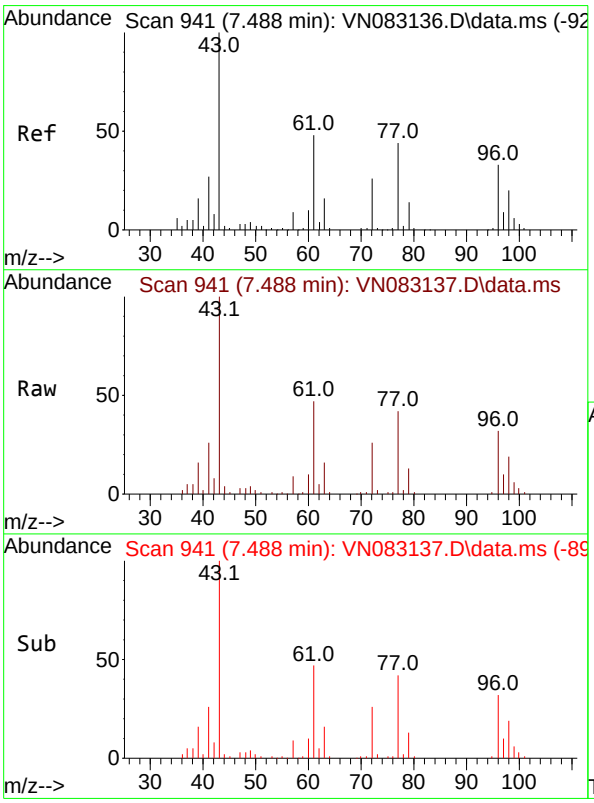
Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.2	27.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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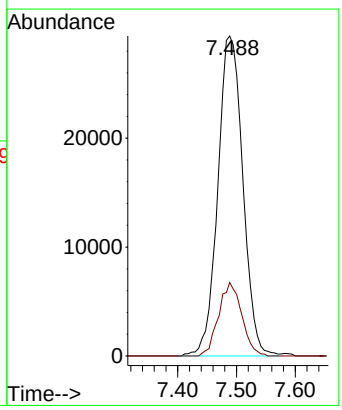
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

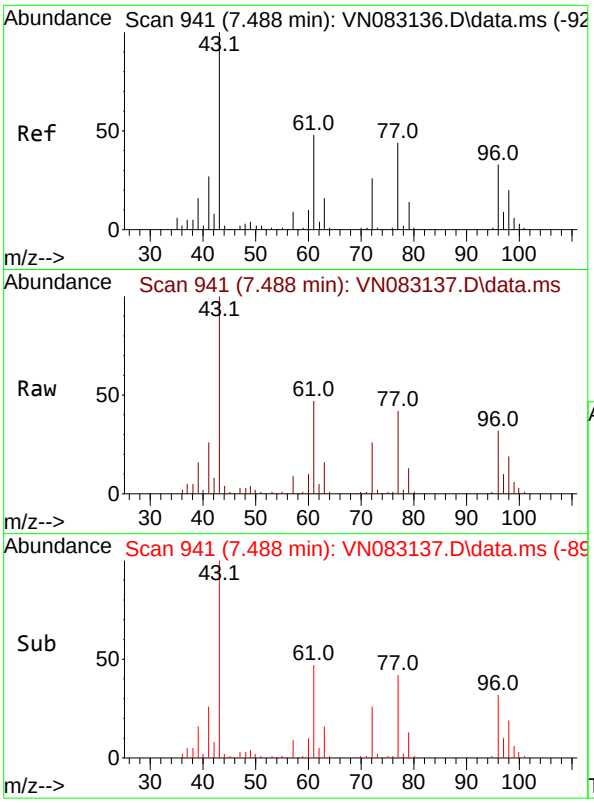


#26
2,2-Dichloropropane
Concen: 20.445 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 77 Resp: 86767

Ion	Ratio	Lower	Upper
77	100		
97	21.3	10.3	30.9

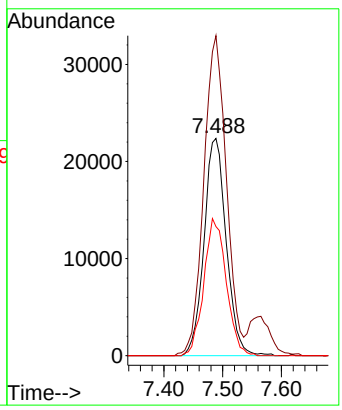




#27
cis-1,2-Dichloroethene
Concen: 19.993 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 96 Resp: 5885

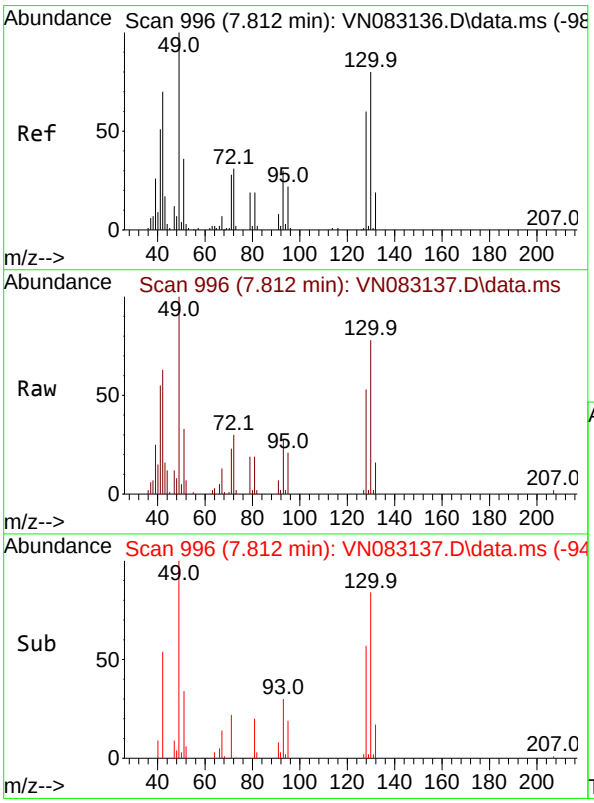
Ion	Ratio	Lower	Upper
96	100		
61	149.6	0.0	329.6
98	63.7	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

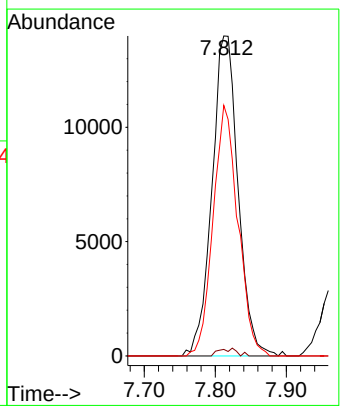
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

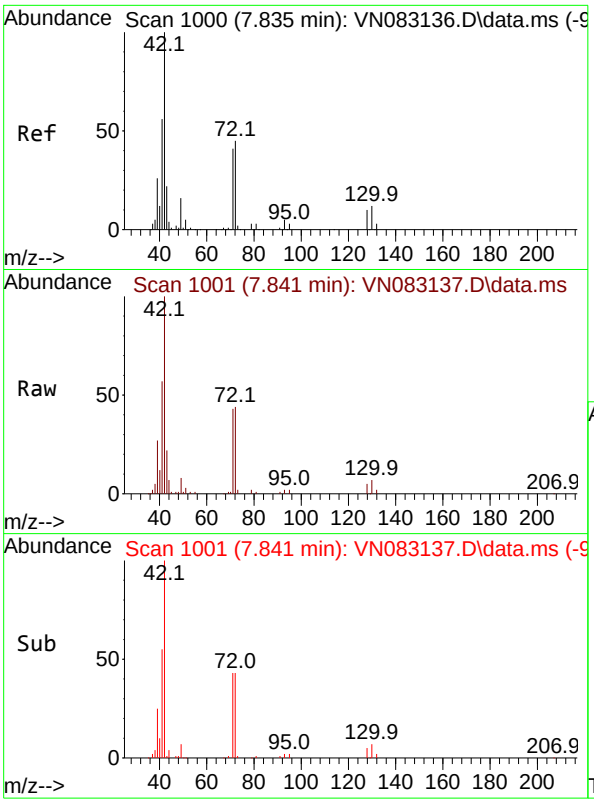


#28
Bromochloromethane
Concen: 19.153 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 49 Resp: 35768

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.8
130	74.4	50.5	75.7

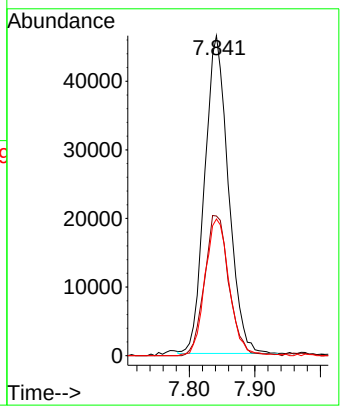




#29
Tetrahydrofuran
Concen: 98.399 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 42 Resp: 11582

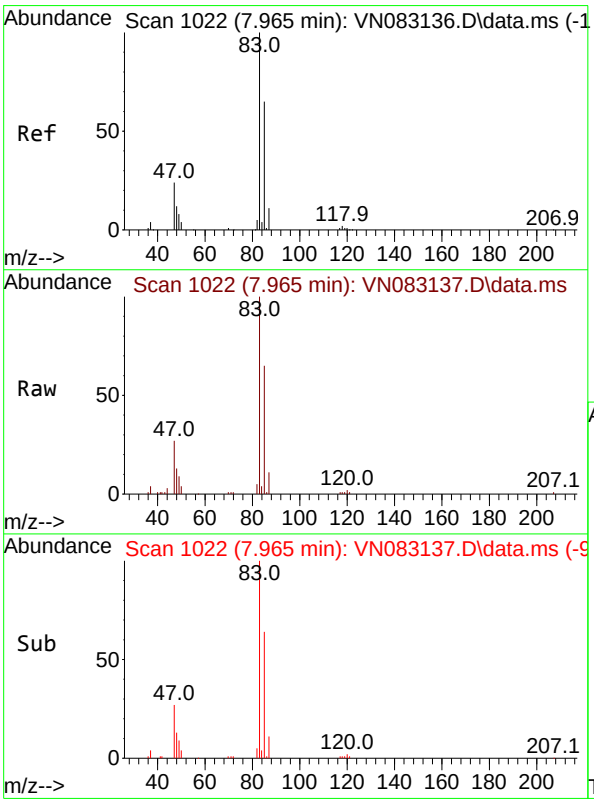
Ion	Ratio	Lower	Upper
42	100		
72	45.8	30.0	45.0#
71	44.0	28.3	42.5#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

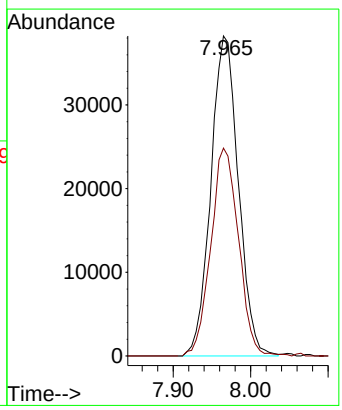
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

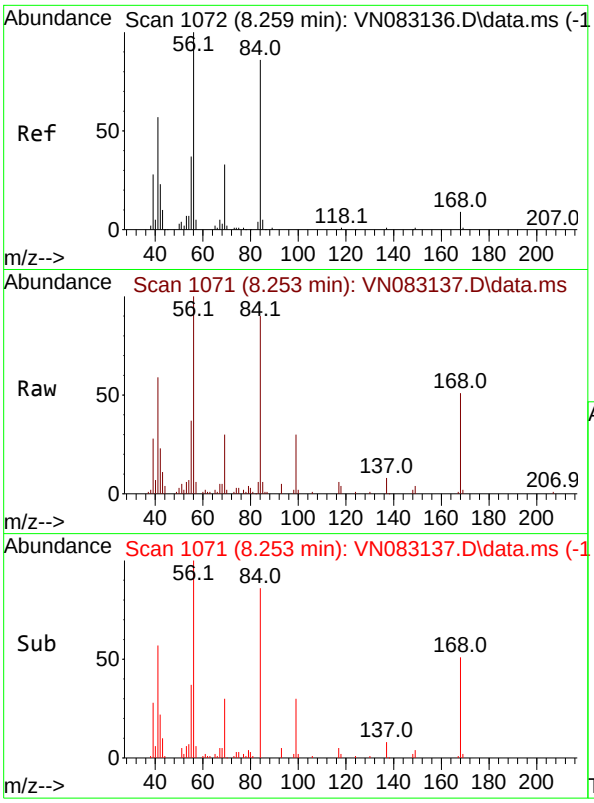


#30
Chloroform
Concen: 19.917 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 83 Resp: 94560

Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.9	76.3





#31
Cyclohexane
Concen: 19.144 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

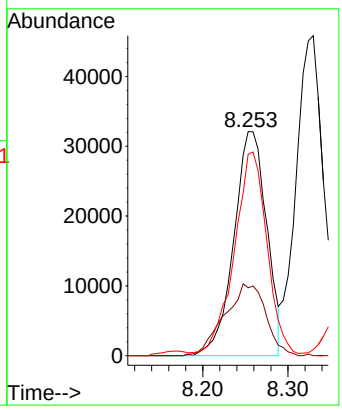
Tgt Ion: 56 Resp: 8597

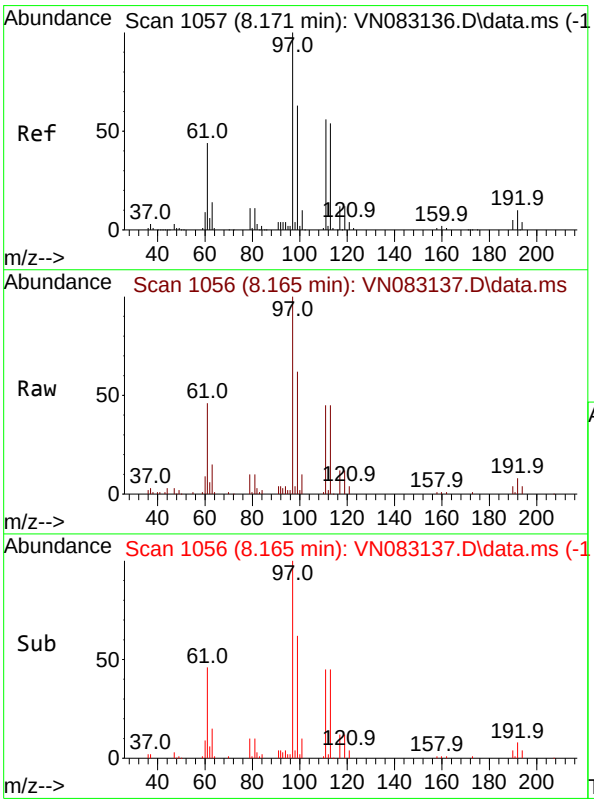
Ion	Ratio	Lower	Upper
56	100		
69	30.4	24.5	36.7
84	87.9	66.0	99.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

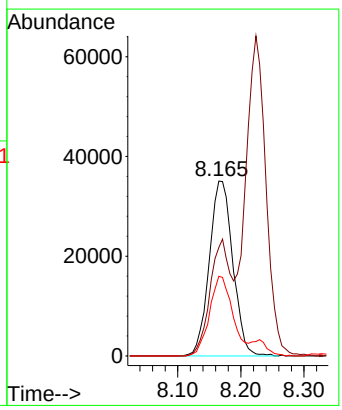


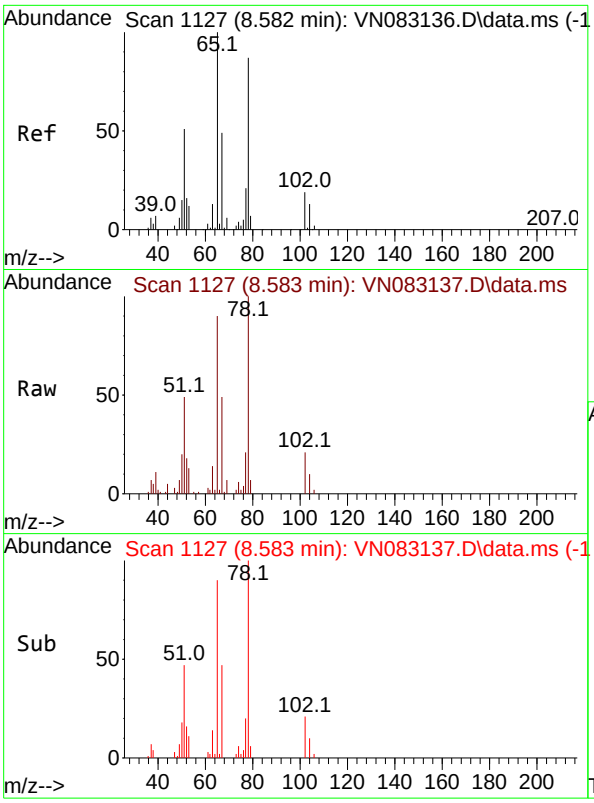


#32
1,1,1-Trichloroethane
Concen: 20.194 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 97 Resp: 90748

Ion	Ratio	Lower	Upper
97	100		
99	58.9	52.0	78.0
61	45.3	42.1	63.1

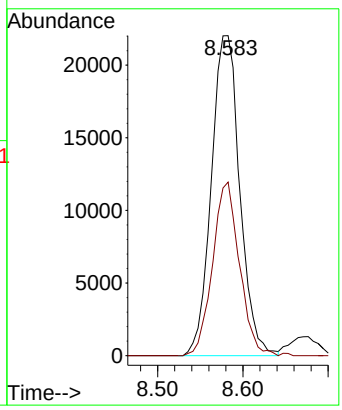




#33
1,2-Dichloroethane-d4
Concen: 16.881 ug/l
RT: 8.583 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 65 Resp: 5115

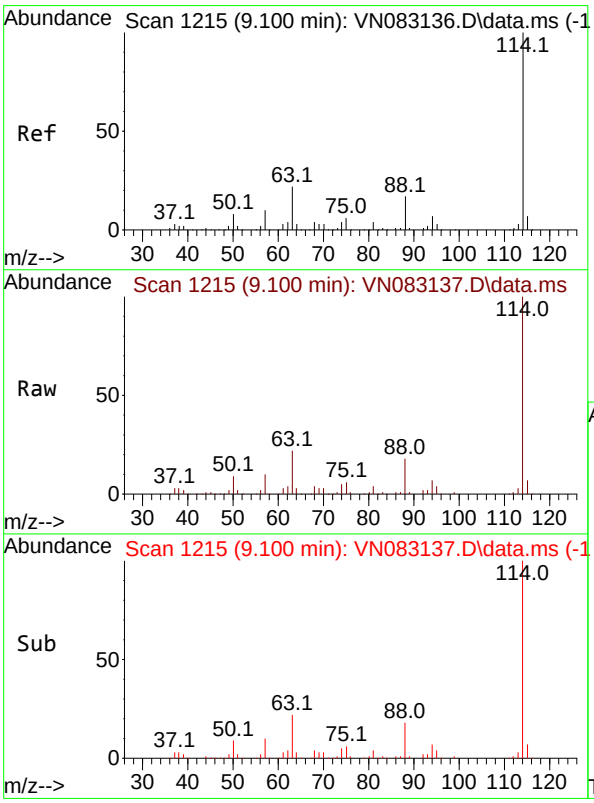
Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

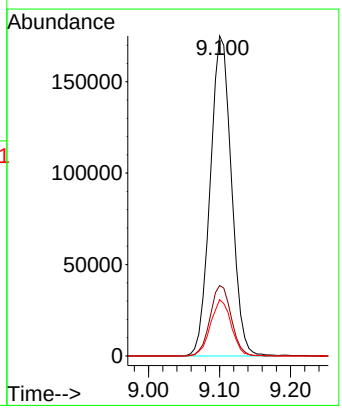
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

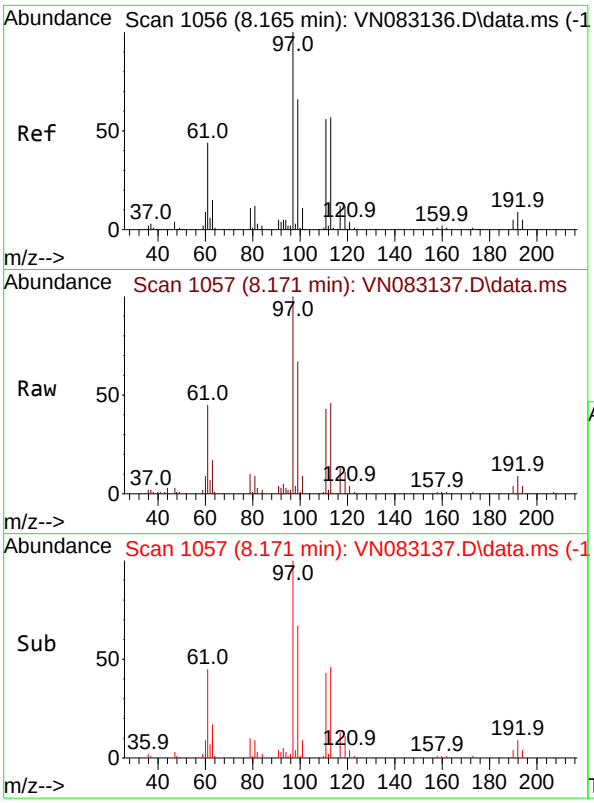


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:114 Resp: 362741

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.6
88	17.6	0.0	31.4

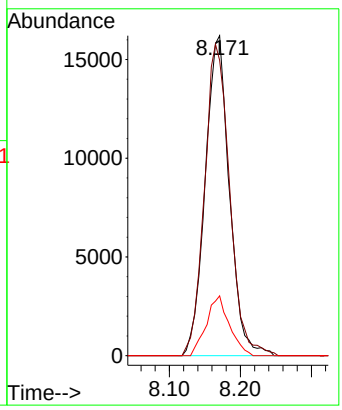




#35
Dibromofluoromethane
Concen: 16.940 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:113 Resp: 3835

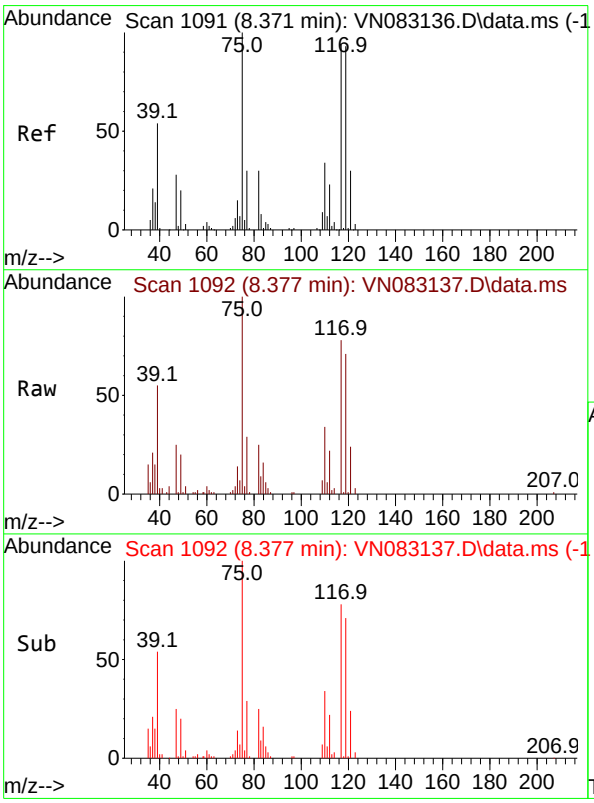
Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.4	123.6
192	17.8	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

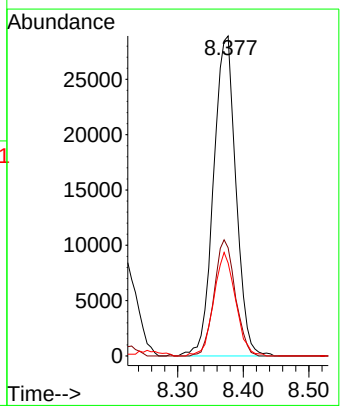
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

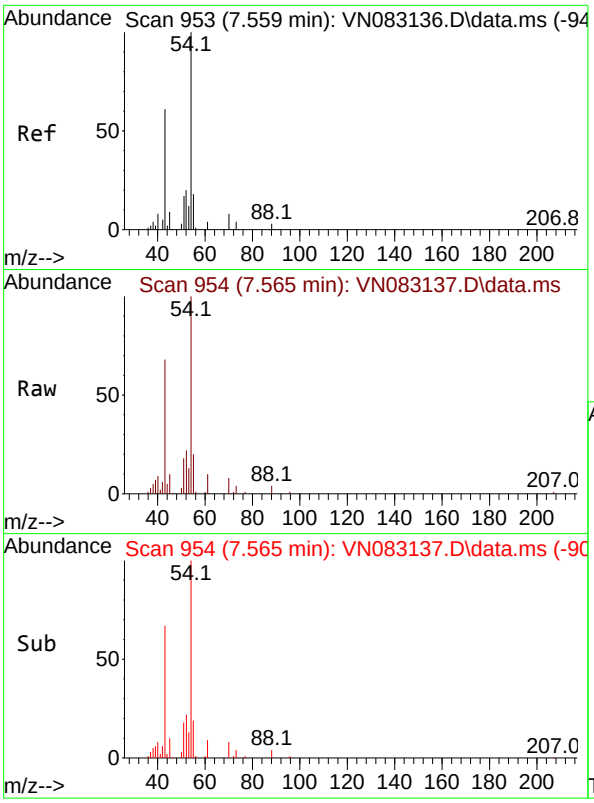


#36
1,1-Dichloropropene
Concen: 19.978 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 68425

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.3	48.9
77	31.3	24.6	37.0





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

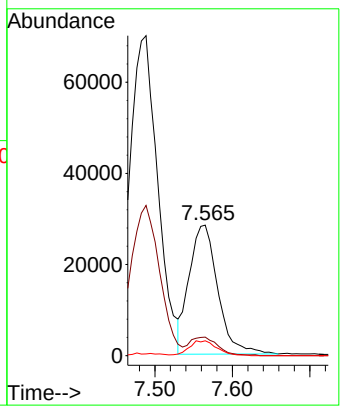
Tgt Ion: 43 Resp: 7280

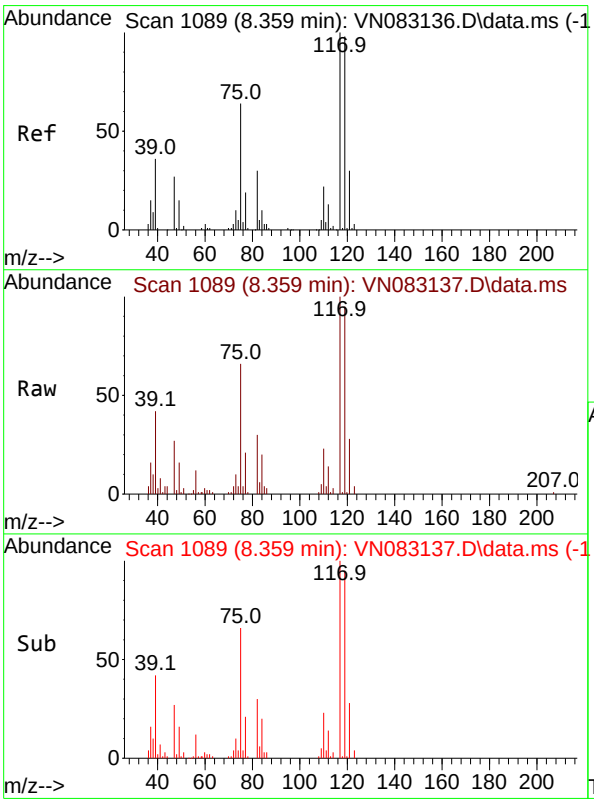
Ion	Ratio	Lower	Upper
43	100		
61	14.3	9.3	13.9#
70	11.2	7.0	10.6#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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

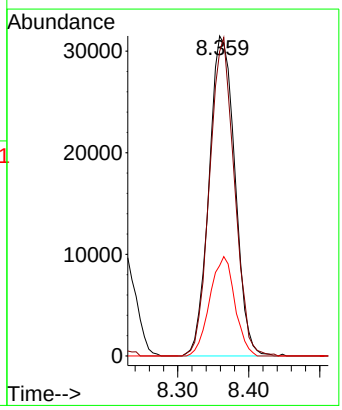


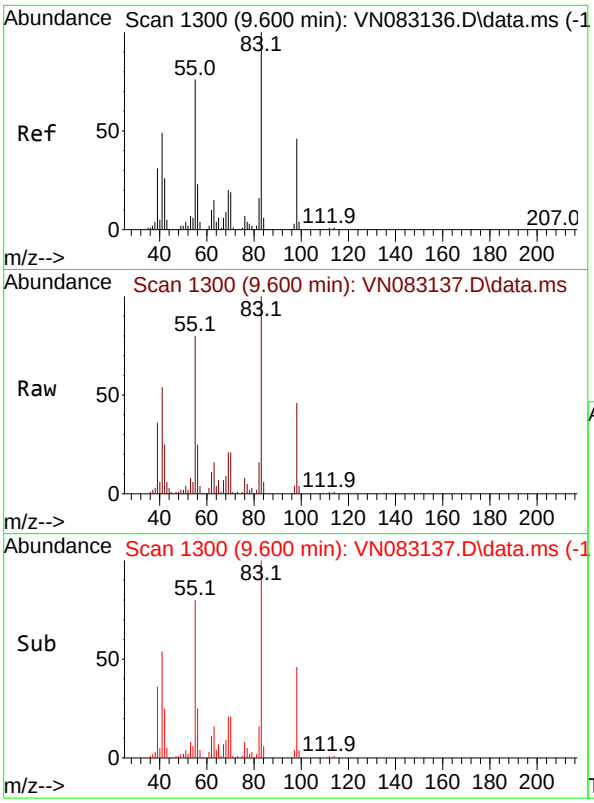


#38
Carbon Tetrachloride
Concen: 20.605 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:117 Resp: 79487

Ion	Ratio	Lower	Upper
117	100		
119	95.1	74.9	112.3
121	28.3	24.3	36.5

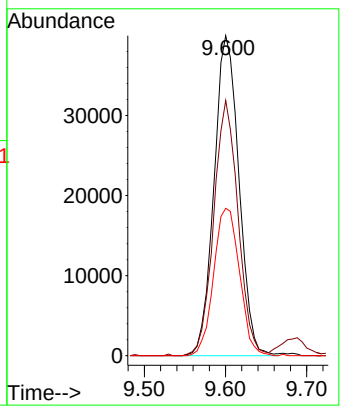




#39
Methylcyclohexane
Concen: 20.246 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 83 Resp: 8517

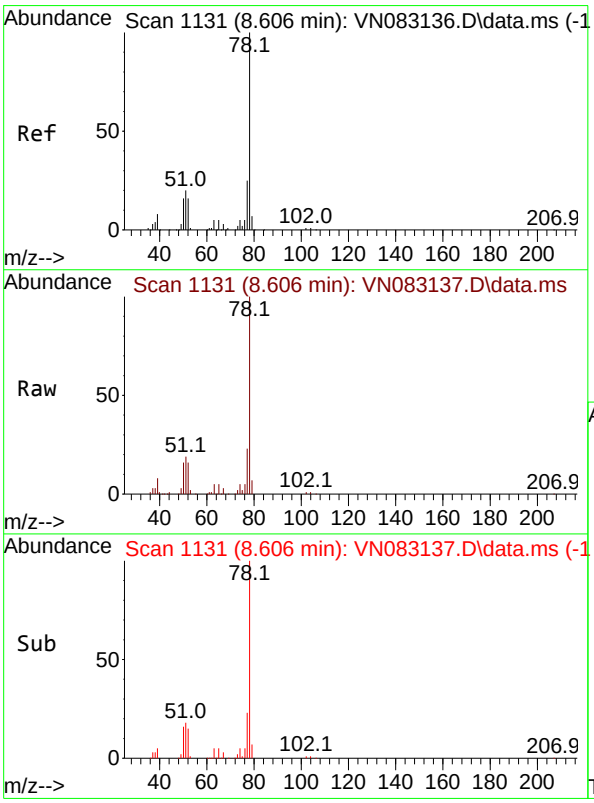
Ion	Ratio	Lower	Upper
83	100		
55	79.7	66.4	99.6
98	46.1	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

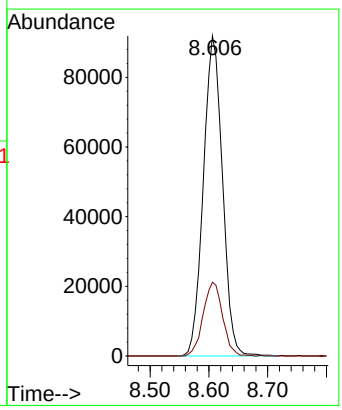
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

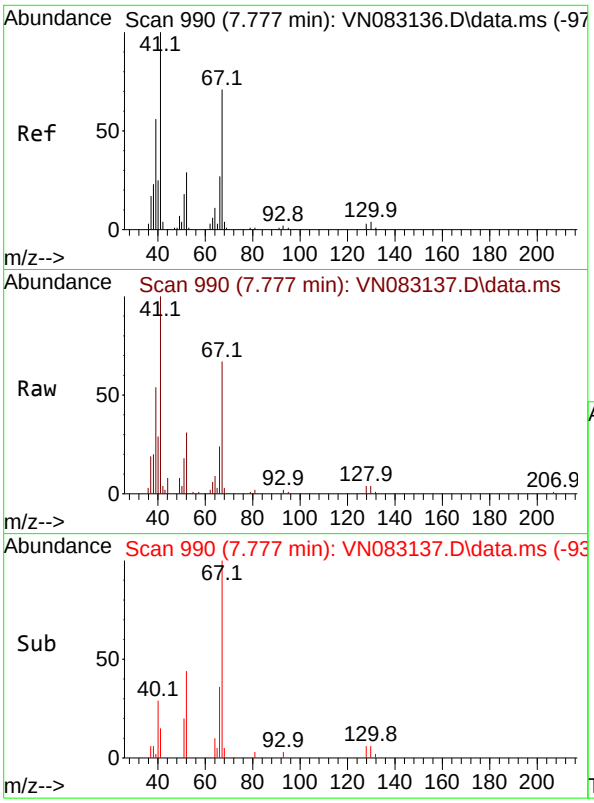


#40
Benzene
Concen: 20.345 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 78 Resp: 207581

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4

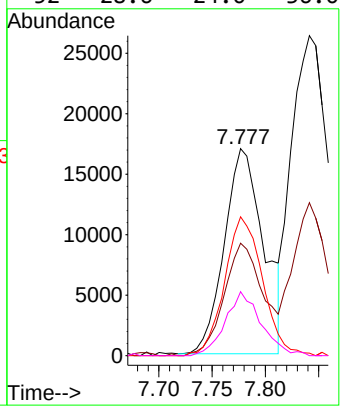




#41
Methacrylonitrile
Concen: 19.968 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 41 Resp: 4353

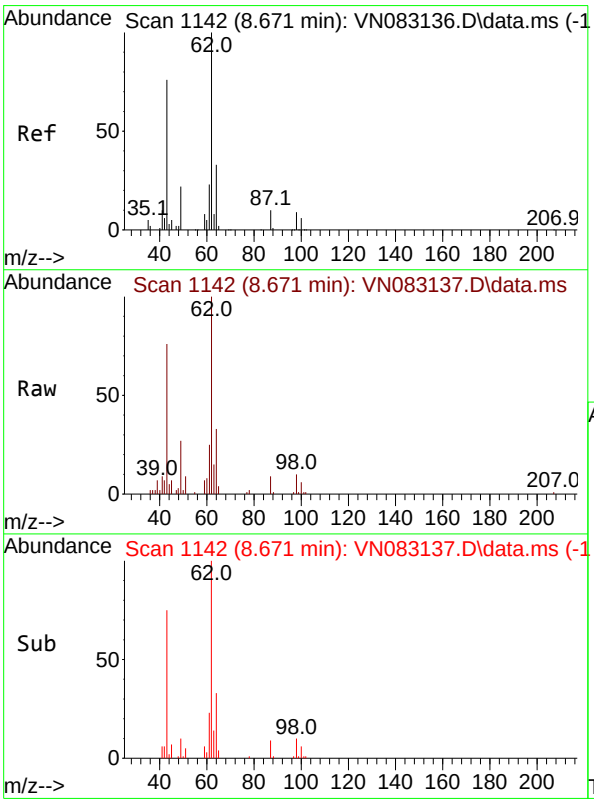
Ion	Ratio	Lower	Upper
41	100		
39	54.6	45.5	68.3
67	65.2	50.5	75.7
52	28.6	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

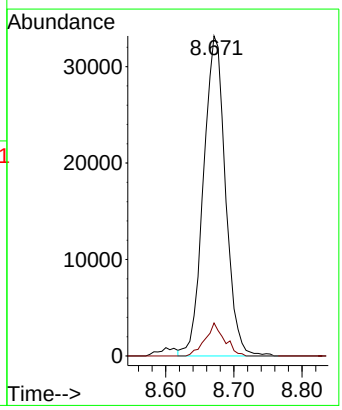
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

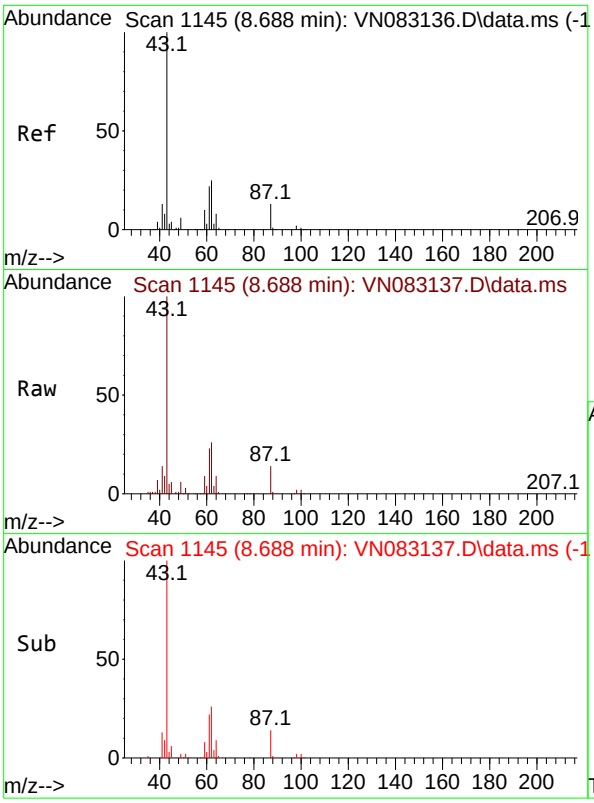


#42
1,2-Dichloroethane
Concen: 20.062 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 62 Resp: 74567

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	15.8





#43
Isopropyl Acetate
Concen: 19.459 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

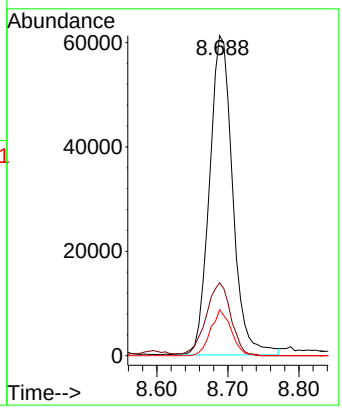
Tgt Ion: 43 Resp: 13871

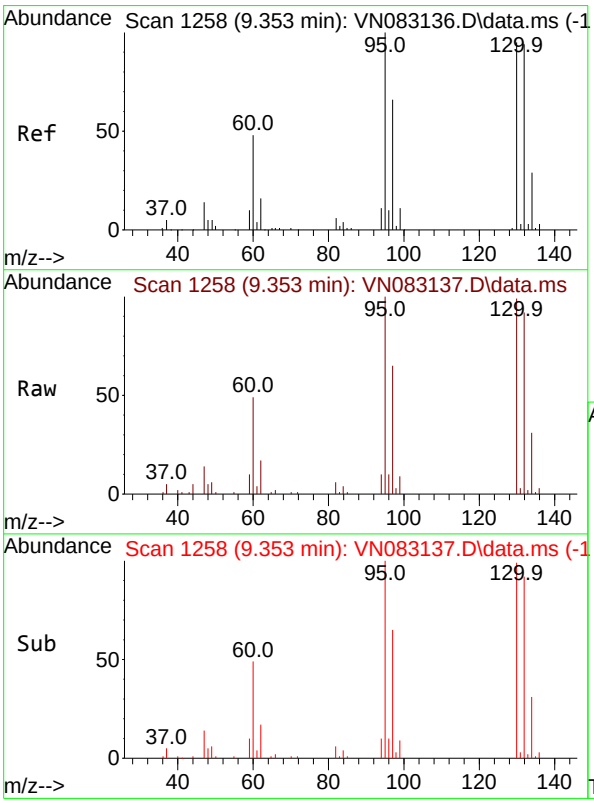
Ion	Ratio	Lower	Upper
43	100		
61	24.5	17.8	26.6
87	12.7	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

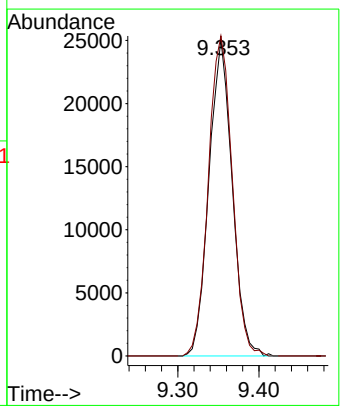


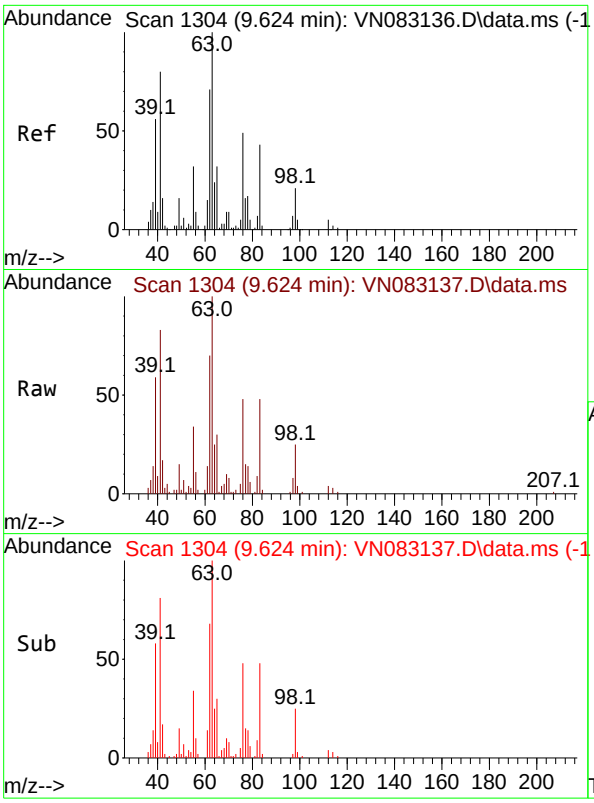


#44
Trichloroethene
Concen: 20.469 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:130 Resp: 49712

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	197.8

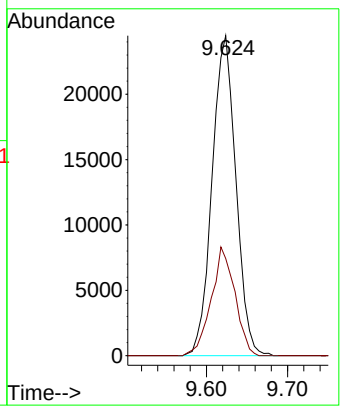




#45
1,2-Dichloropropane
Concen: 20.594 ug/l
RT: 9.624 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 63 Resp: 4987

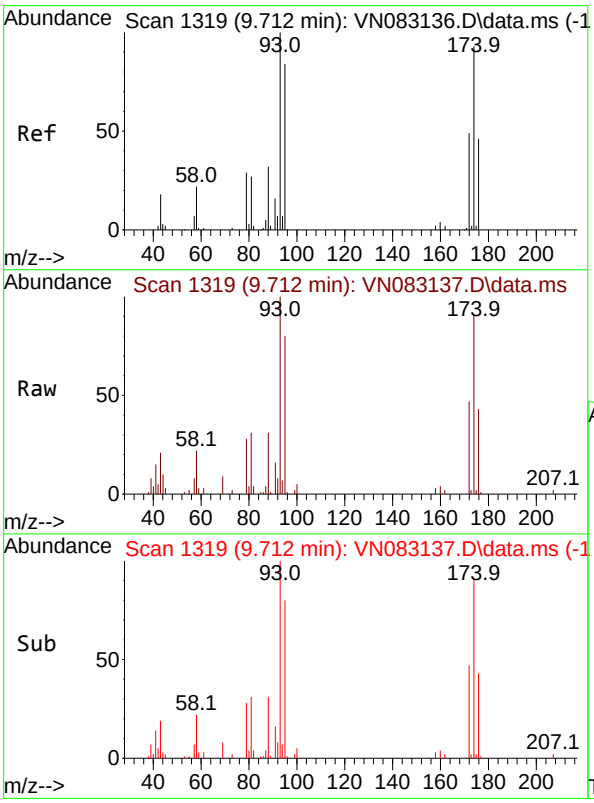
Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

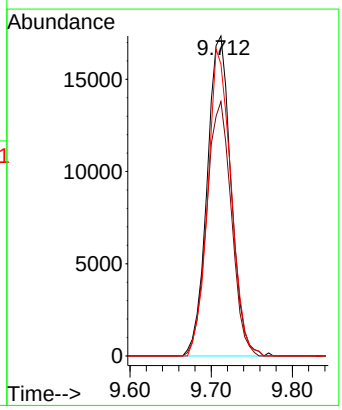
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

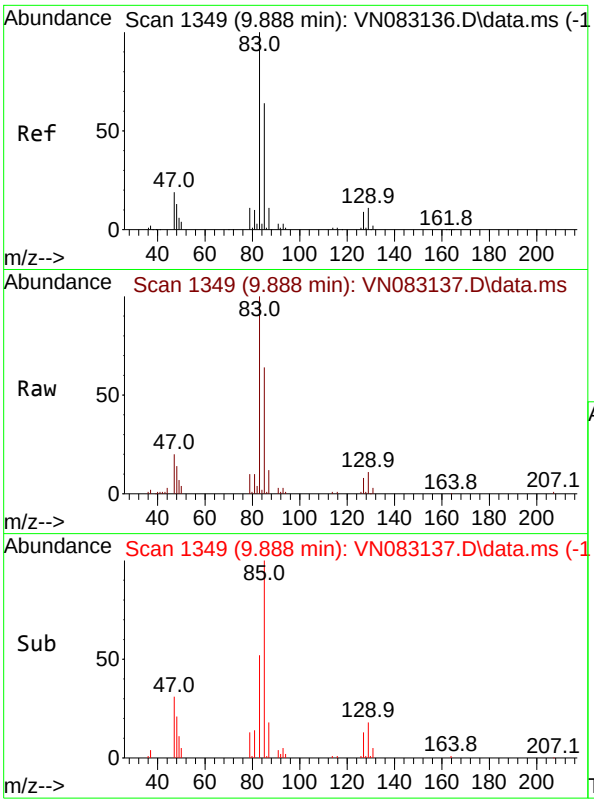


#46
Dibromomethane
Concen: 20.512 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 93 Resp: 35560

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.8	98.6
174	92.9	71.7	107.5

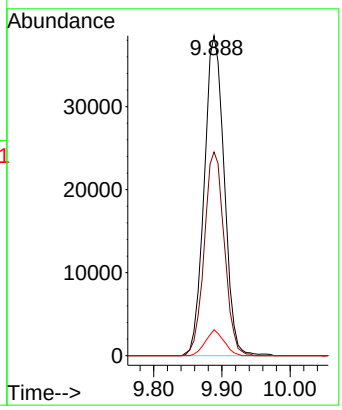




#47
Bromodichloromethane
Concen: 20.147 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 83 Resp: 7842

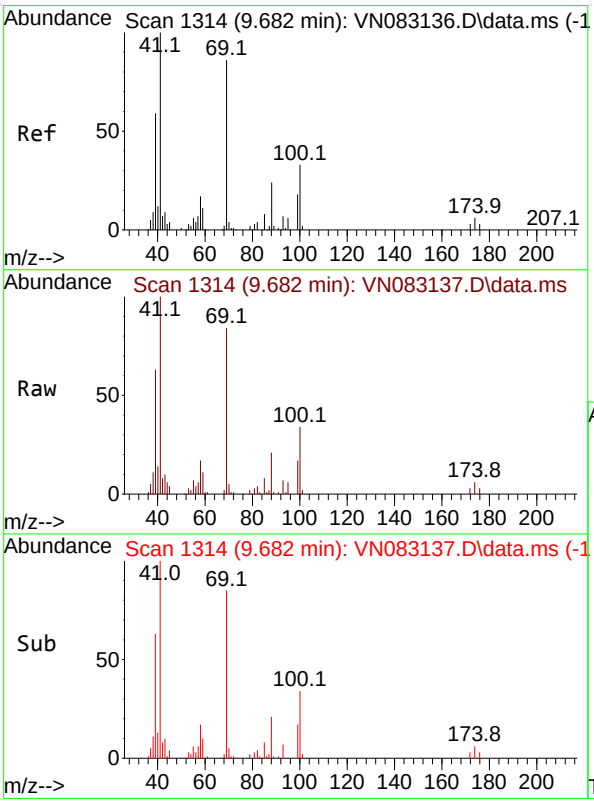
Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.1	76.7
127	8.1	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

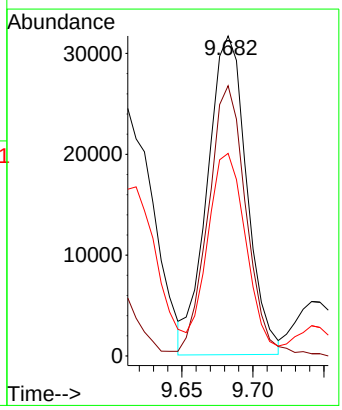
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

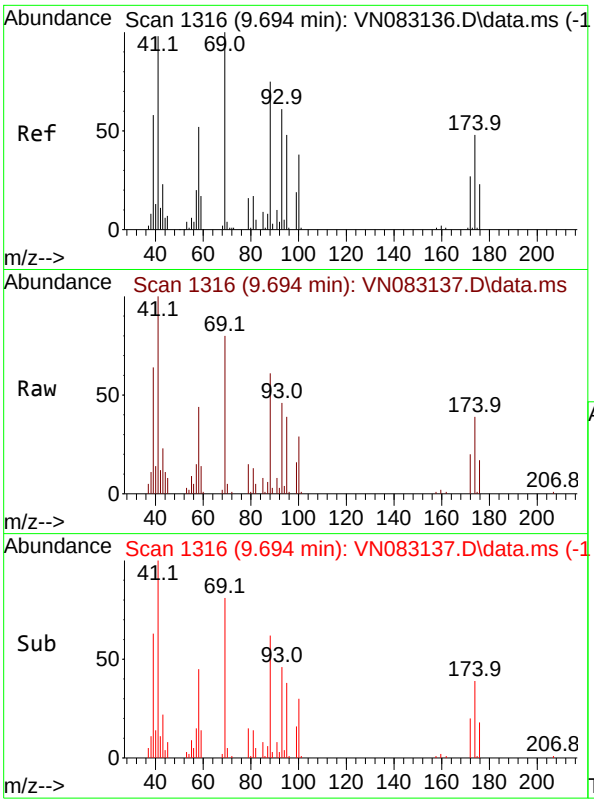


#48
Methyl methacrylate
Concen: 19.254 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 41 Resp: 61044

Ion	Ratio	Lower	Upper
41	100		
69	82.1	56.3	84.5
39	62.5	50.3	75.5

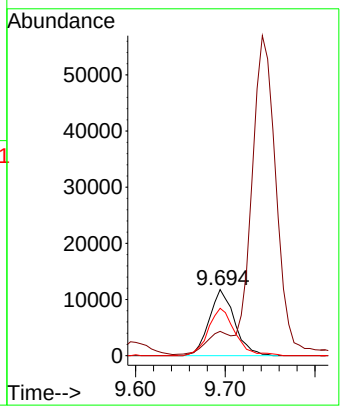




#49
1,4-Dioxane
Concen: 403.558 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 88 Resp: 2308

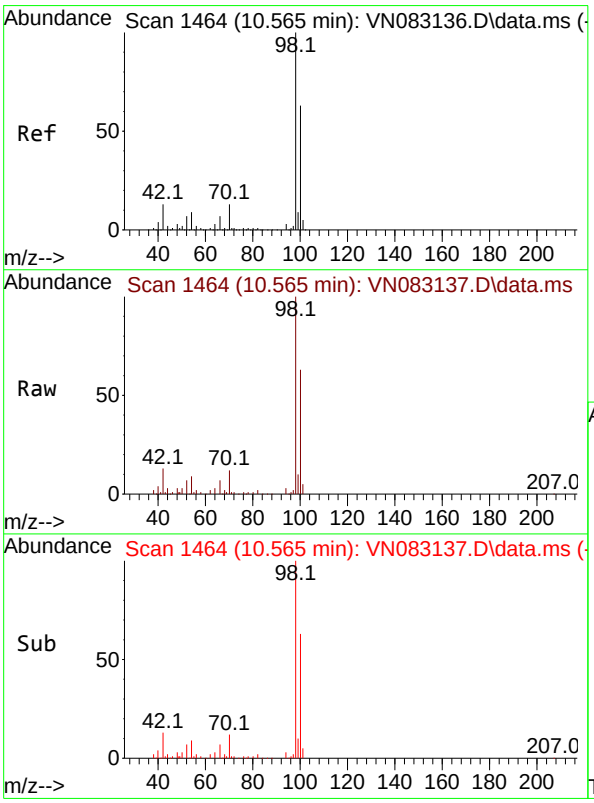
Ion	Ratio	Lower	Upper
88	100		
43	32.7	27.8	41.8
58	75.6	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

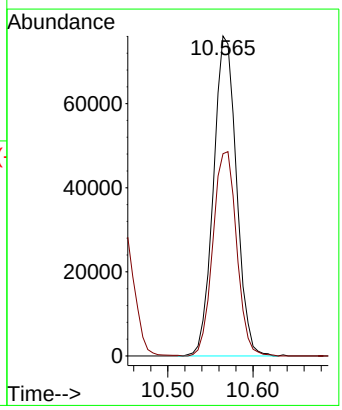
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

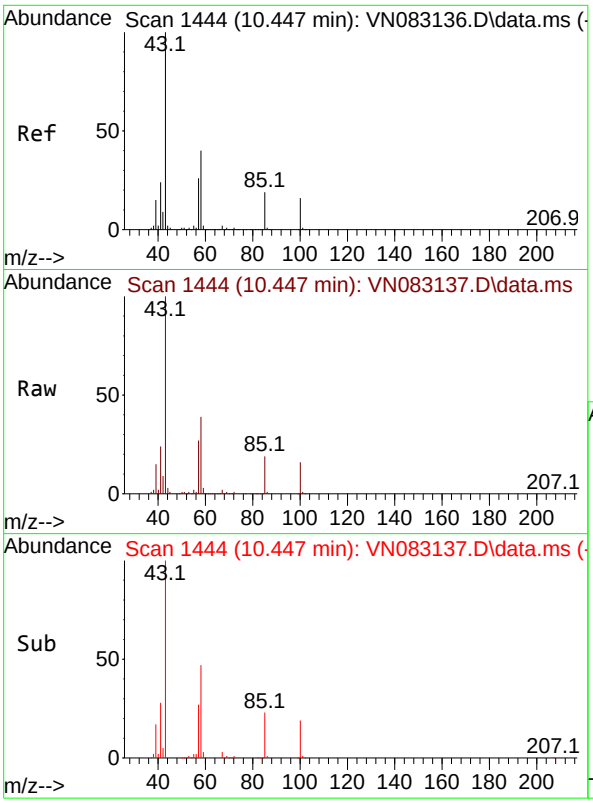


#50
Toluene-d8
Concen: 16.926 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 98 Resp: 142952

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.5	77.3

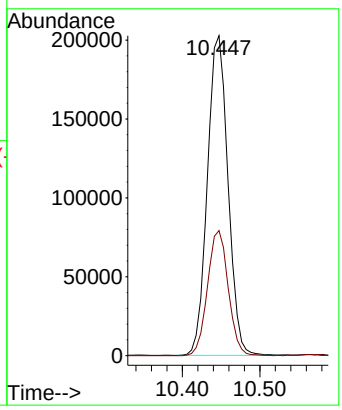




#51
4-Methyl-2-Pentanone
Concen: 103.224 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 37433

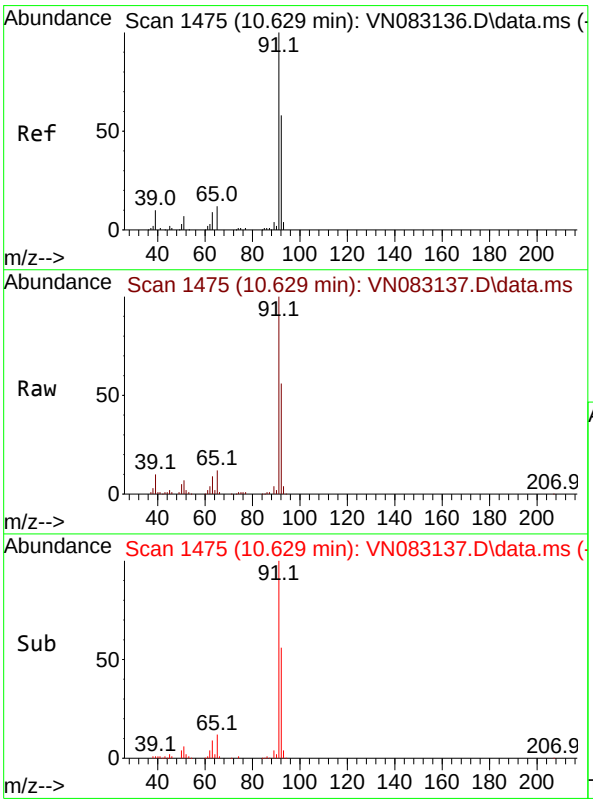
Ion	Ratio	Lower	Upper
43	100		
58	39.4	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

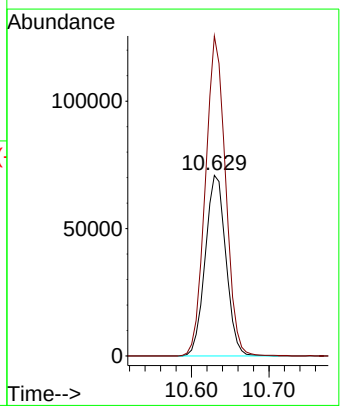
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

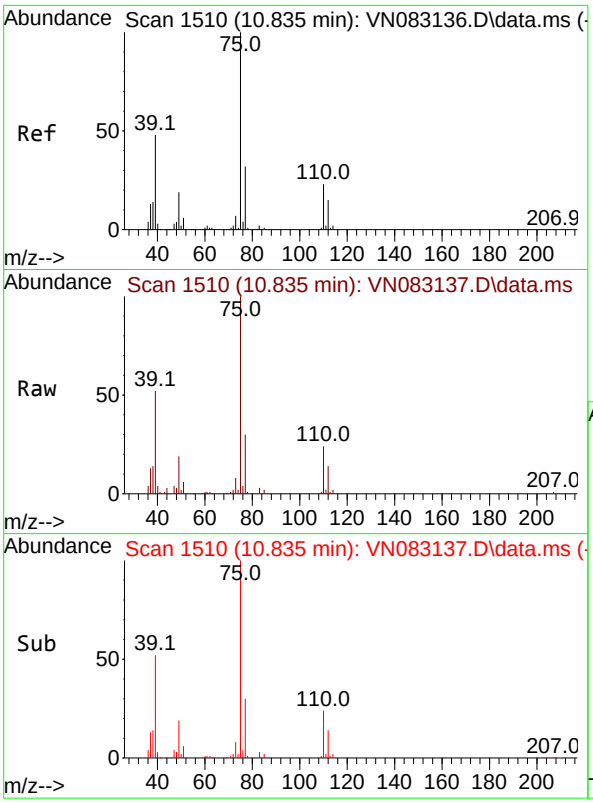


#52
Toluene
Concen: 20.358 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 92 Resp: 131247

Ion	Ratio	Lower	Upper
92	100		
91	173.0	139.4	209.0

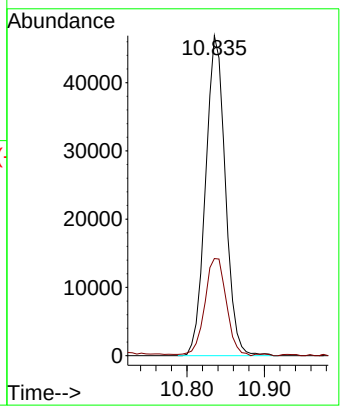




#53
t-1,3-Dichloropropene
Concen: 20.793 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 8313

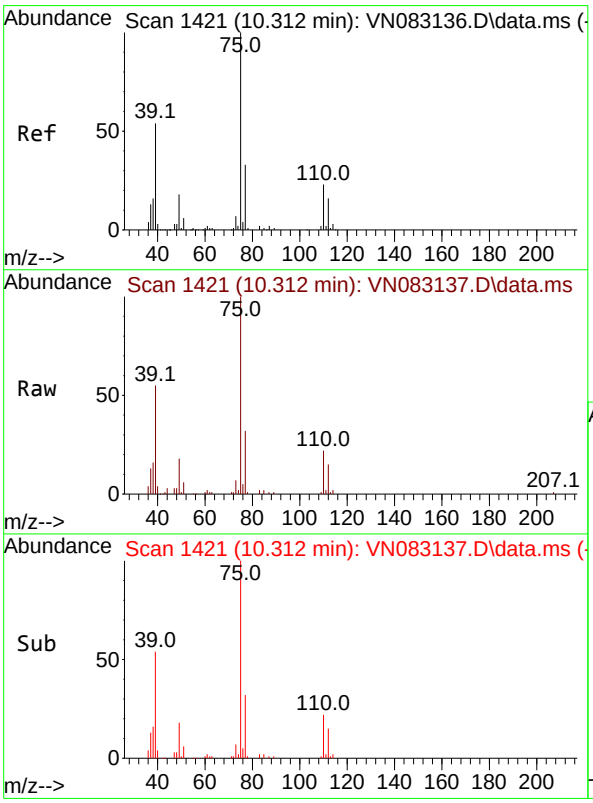
Ion	Ratio	Lower	Upper
75	100		
77	30.4	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

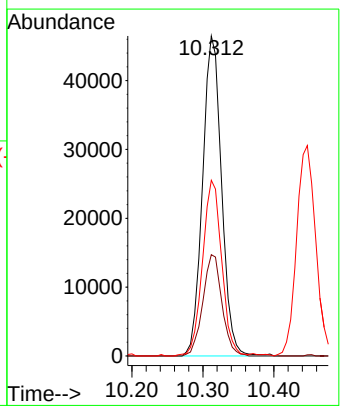
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

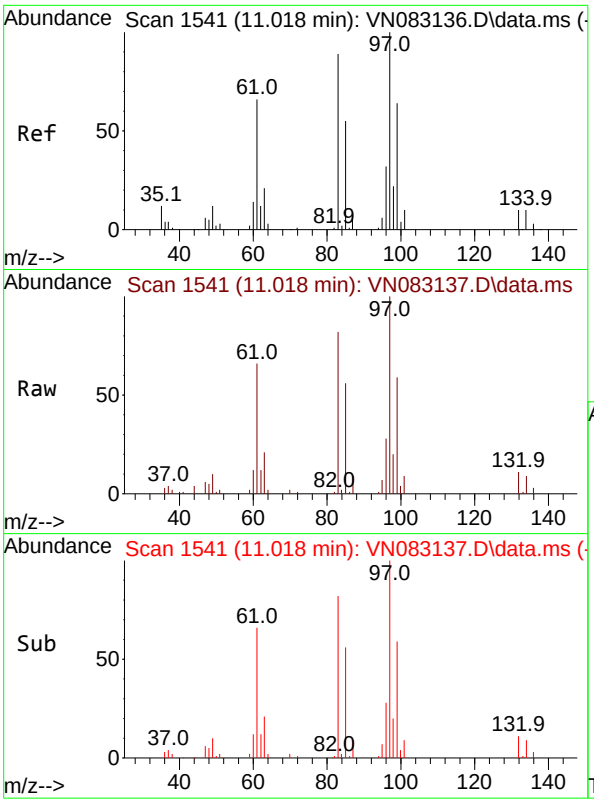


#54
cis-1,3-Dichloropropene
Concen: 20.351 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 86551

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.3	36.5
39	54.5	50.5	75.7

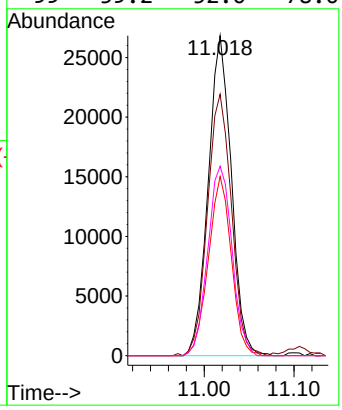




#55
1,1,2-Trichloroethane
Concen: 20.811 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 97 Resp: 4808

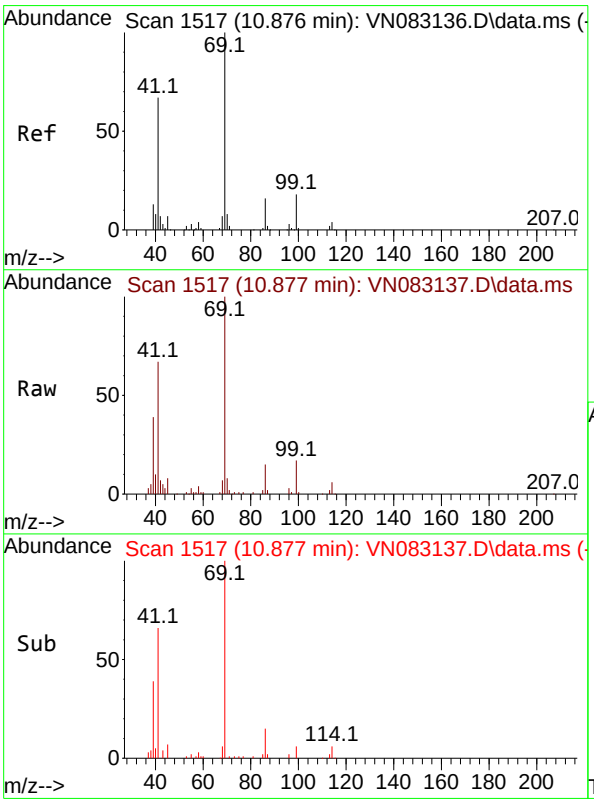
Ion	Ratio	Lower	Upper
97	100		
83	81.1	71.4	107.0
85	56.0	45.8	68.6
99	59.2	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

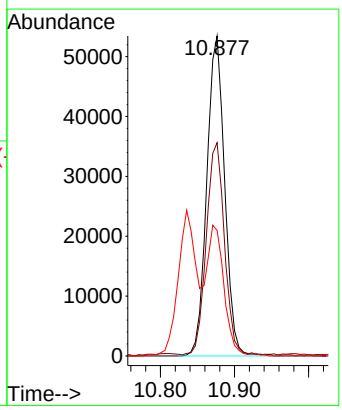
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

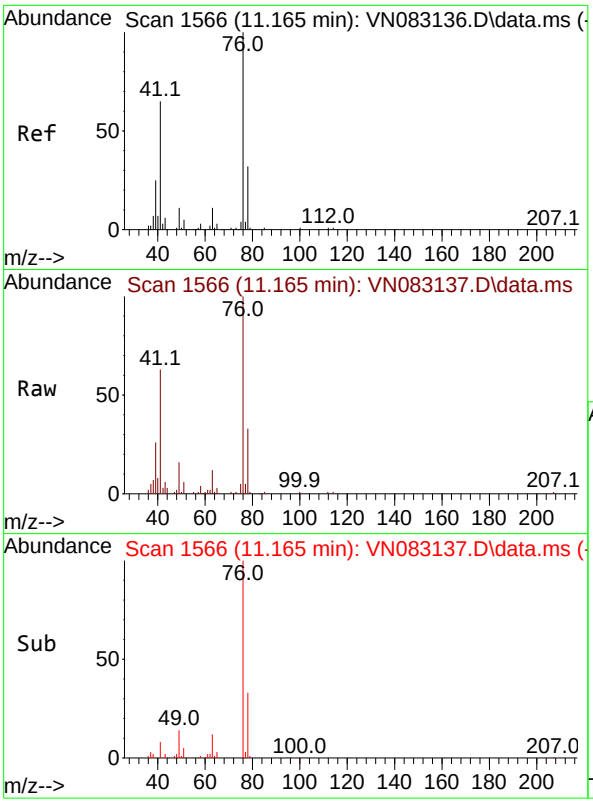


#56
Ethyl methacrylate
Concen: 20.550 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 69 Resp: 89503

Ion	Ratio	Lower	Upper
69	100		
41	67.5	63.4	95.2
39	41.2	37.4	56.0

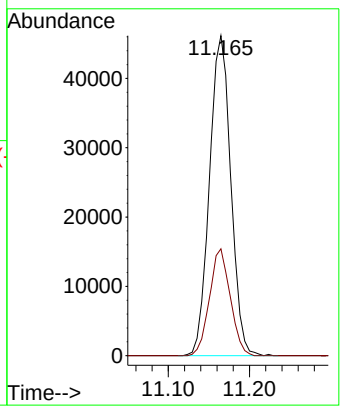




#57
1,3-Dichloropropane
Concen: 20.464 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 76 Resp: 8427

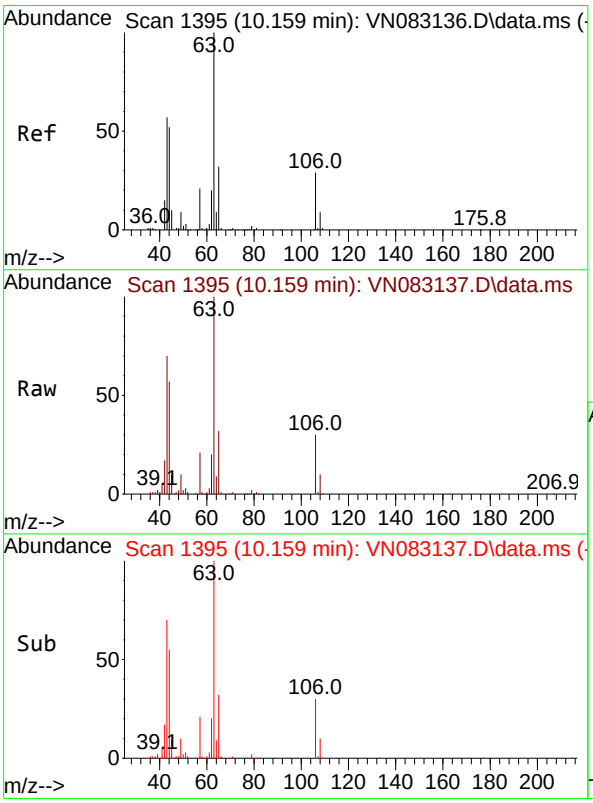
Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

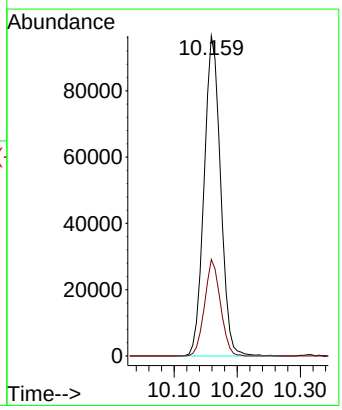
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

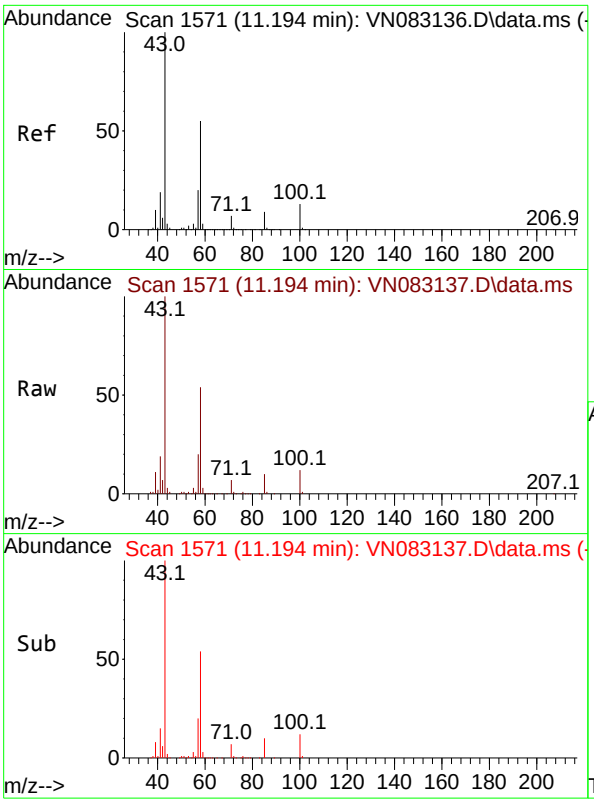


#58
2-Chloroethyl Vinyl ether
Concen: 95.242 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 63 Resp: 175345

Ion	Ratio	Lower	Upper
63	100		
106	28.9	21.4	32.0





#59
2-Hexanone
Concen: 102.020 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

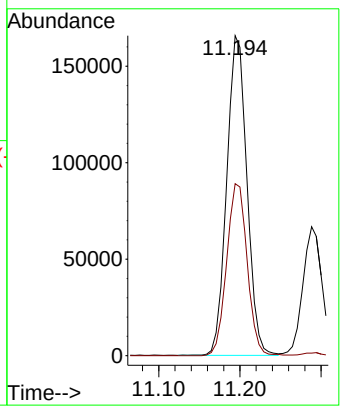
Tgt Ion: 43 Resp: 28622

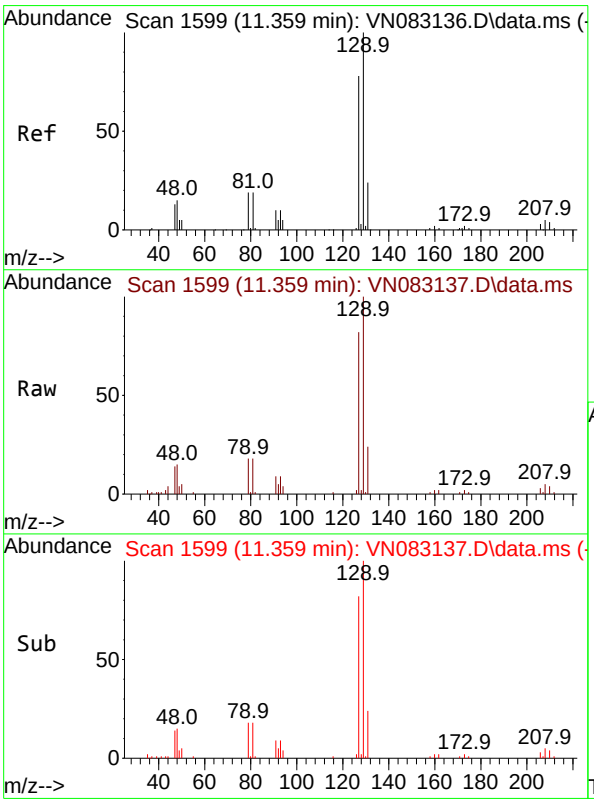
Ion	Ratio	Lower	Upper
43	100		
58	54.7	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

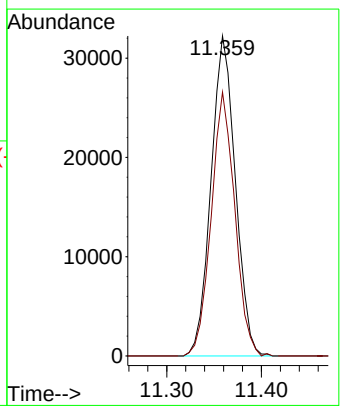


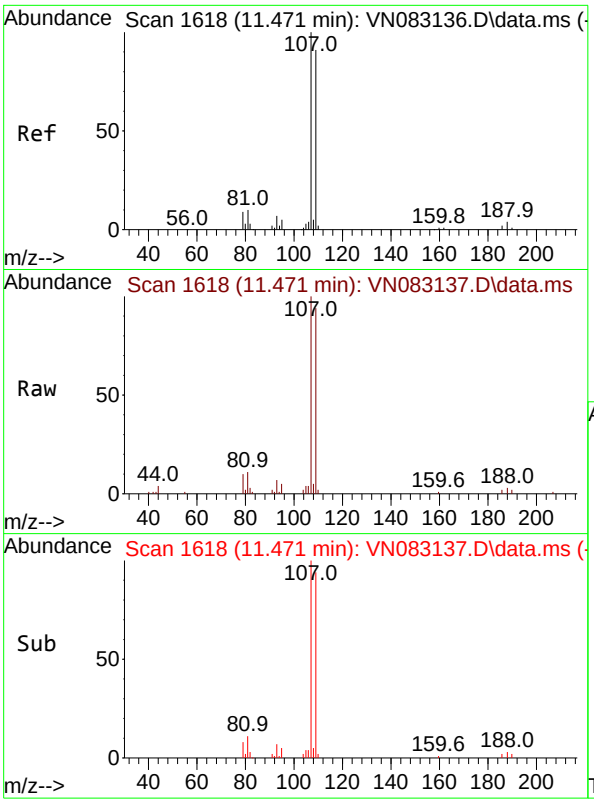


#60
Dibromochloromethane
Concen: 20.610 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:129 Resp: 57571

Ion	Ratio	Lower	Upper
129	100		
127	79.9	39.2	117.6





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

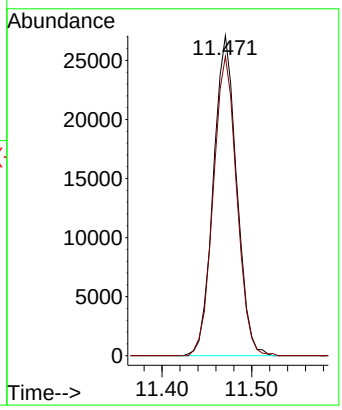
Tgt Ion:107 Resp: 4875

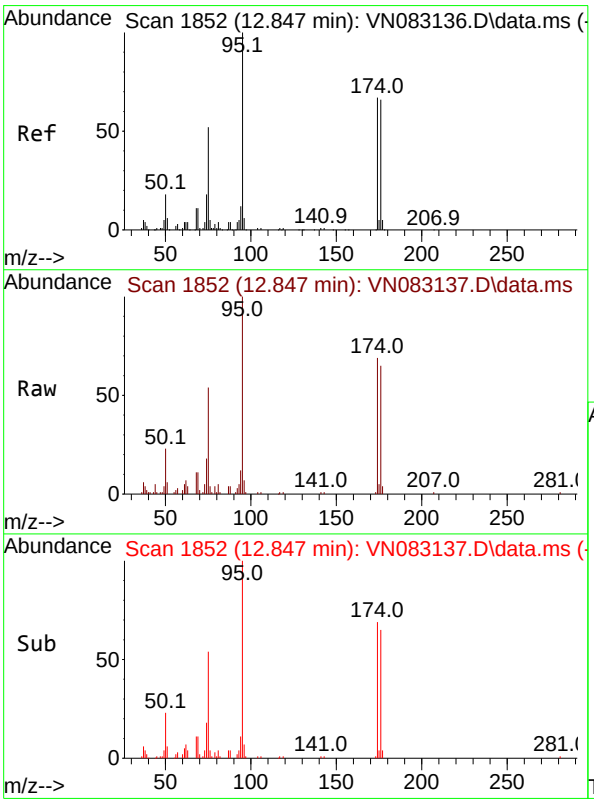
Ion	Ratio	Lower	Upper
107	100		
109	94.4	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

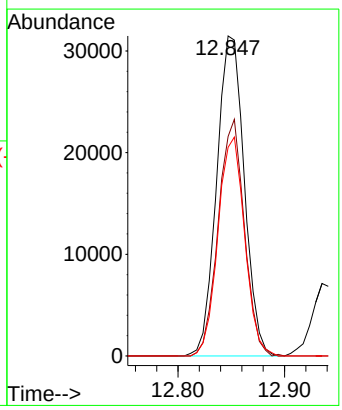


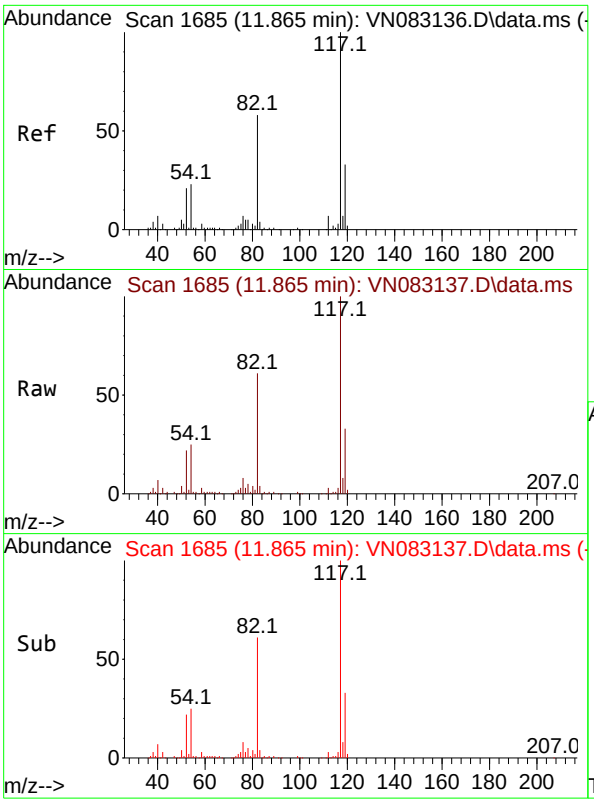


#62
4-Bromofluorobenzene
Concen: 17.179 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 95 Resp: 56566

Ion	Ratio	Lower	Upper
95	100		
174	69.8	0.0	159.2
176	66.2	0.0	147.6

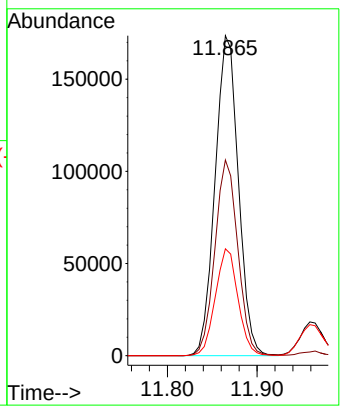




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:117 Resp: 31325

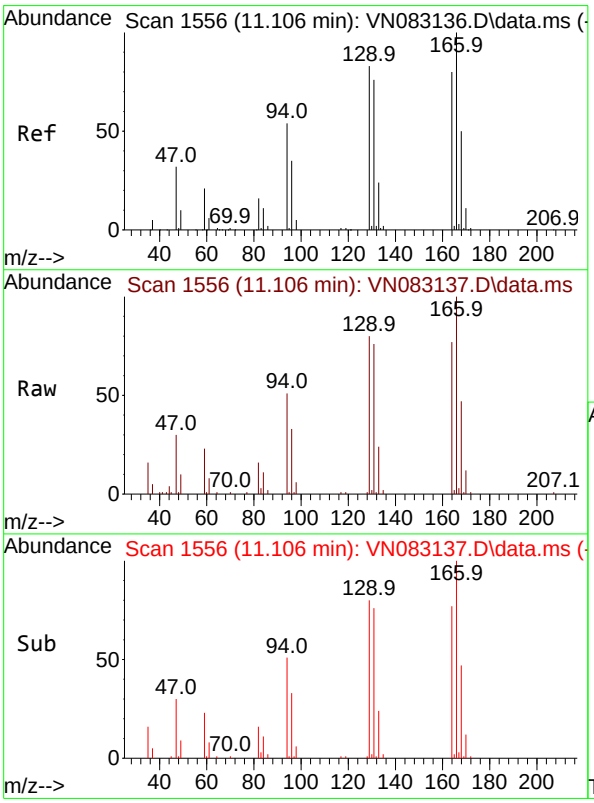
Ion	Ratio	Lower	Upper
117	100		
82	61.1	47.5	71.3
119	33.4	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

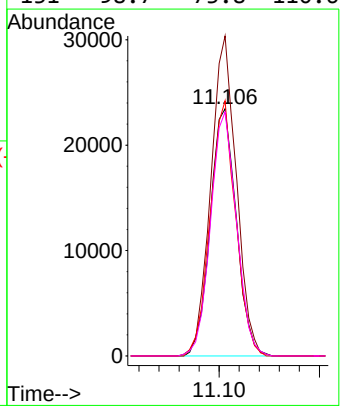
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

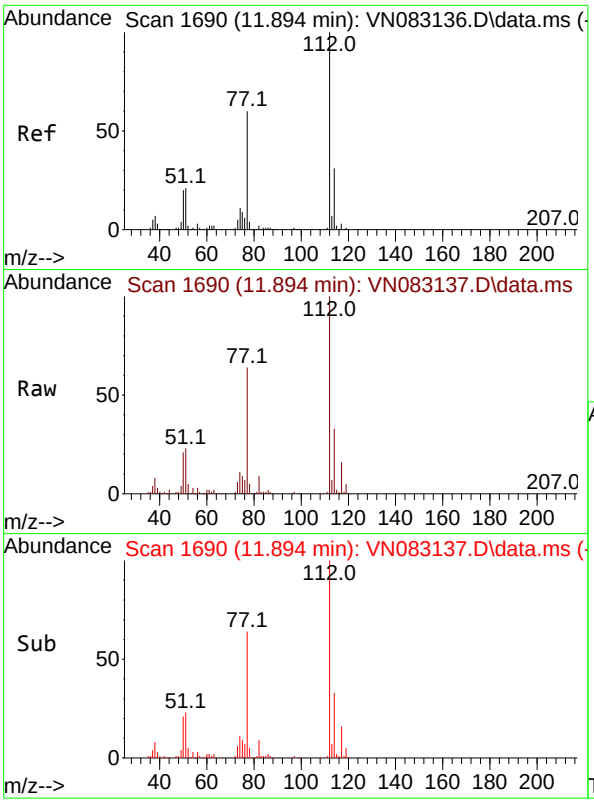


#64
Tetrachloroethene
Concen: 20.405 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:164 Resp: 42332

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

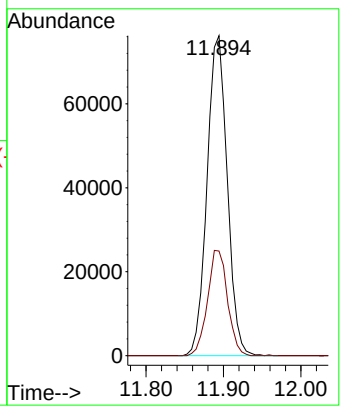




#65
Chlorobenzene
Concen: 19.933 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:112 Resp: 13798

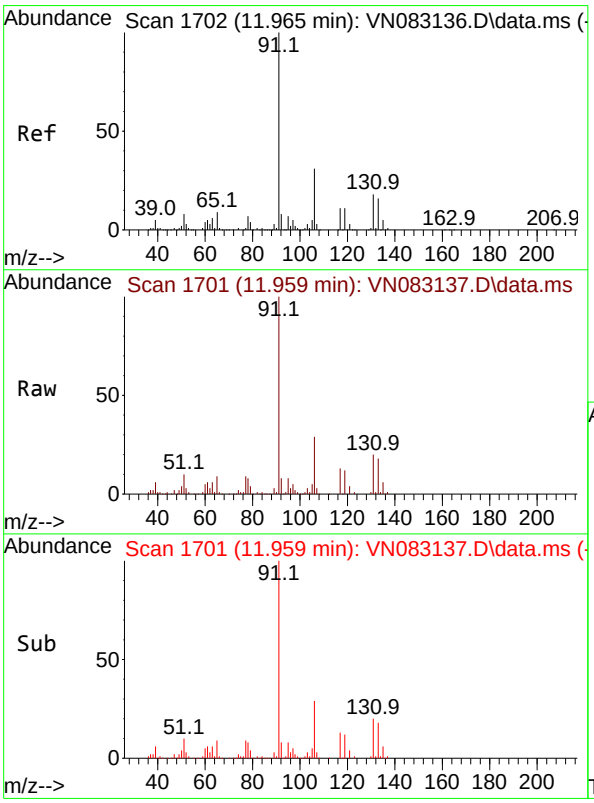
Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

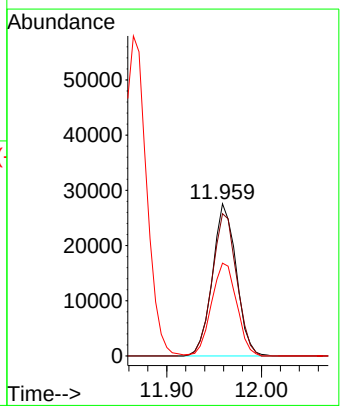
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

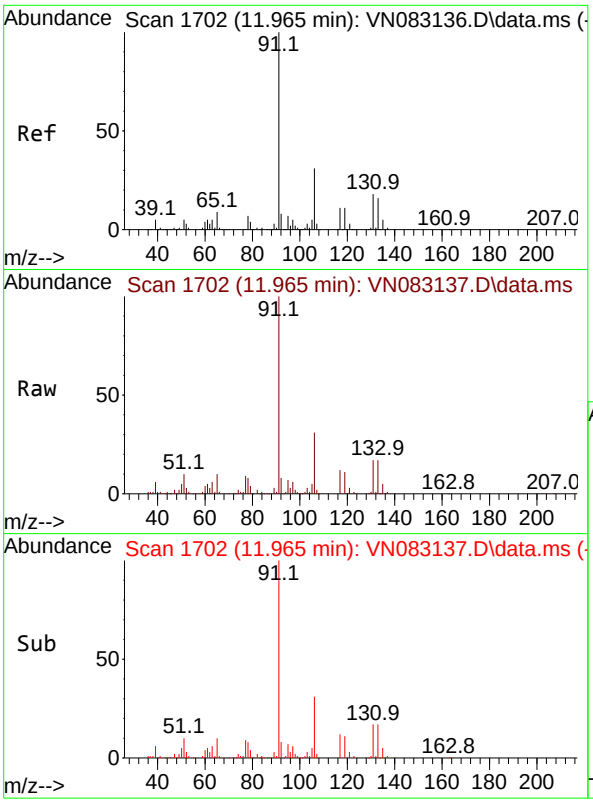


#66
1,1,1,2-Tetrachloroethane
Concen: 19.762 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:131 Resp: 48247

Ion	Ratio	Lower	Upper
131	100		
133	96.1	47.3	142.0
119	64.5	32.5	97.4

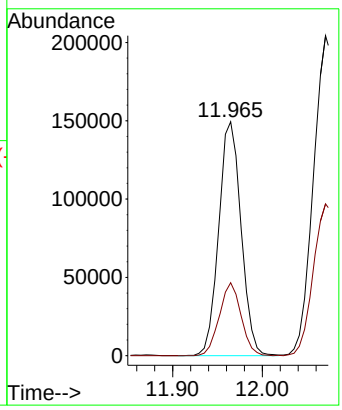




#67
Ethyl Benzene
Concen: 20.335 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 25823

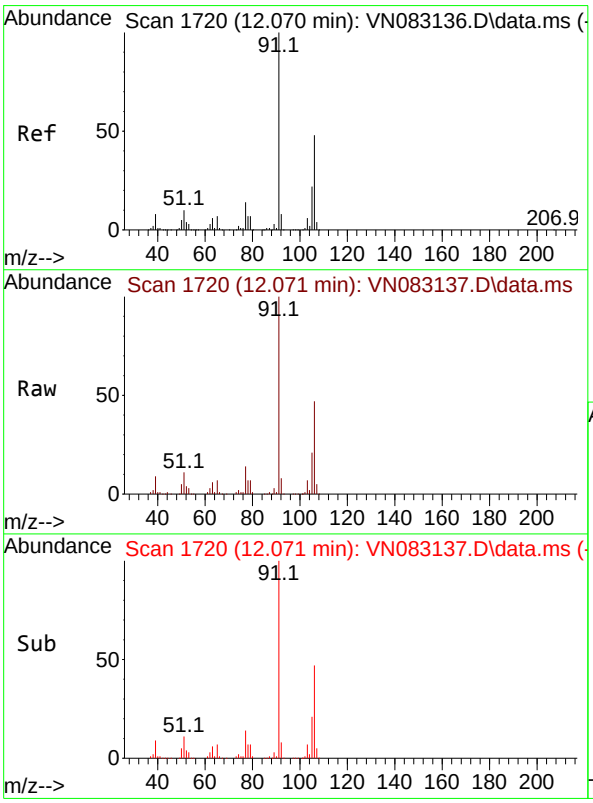
Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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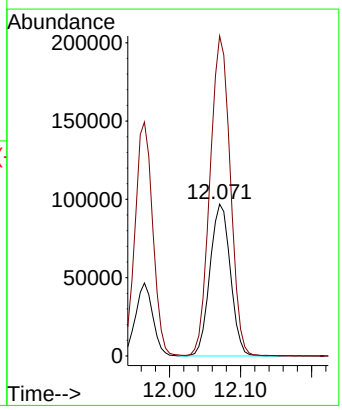
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

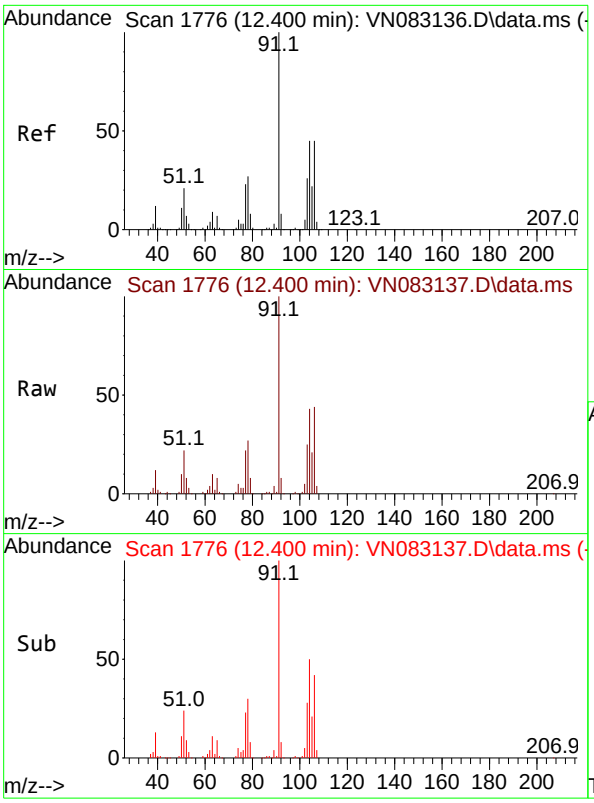


#68
m/p-Xylenes
Concen: 40.625 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:106 Resp: 193256

Ion	Ratio	Lower	Upper
106	100		
91	209.9	166.1	249.1





#69
o-Xylene
Concen: 20.281 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

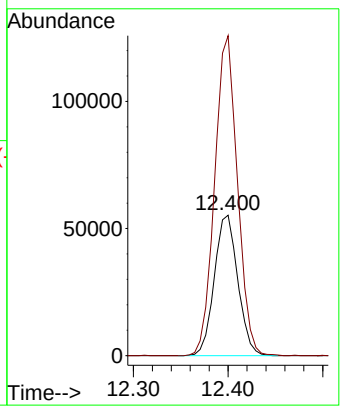
Tgt Ion:106 Resp: 9515

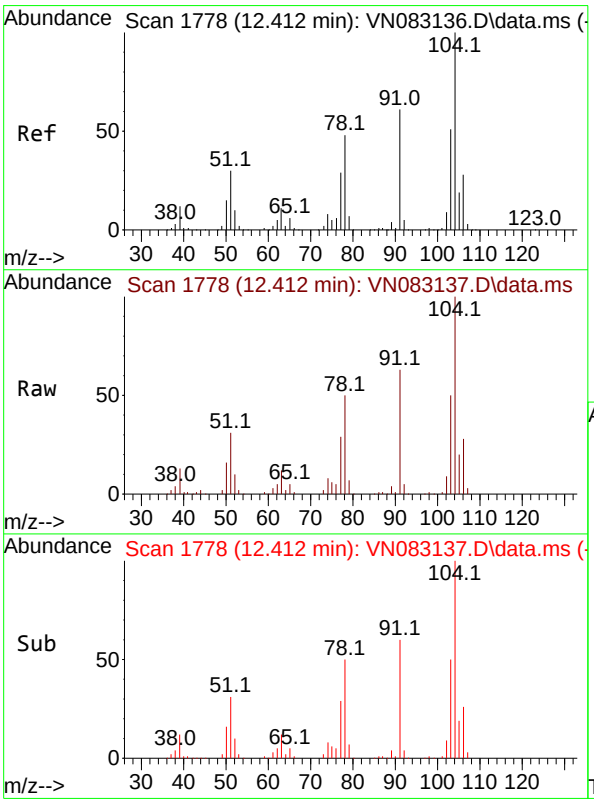
Ion	Ratio	Lower	Upper
106	100		
91	221.3	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

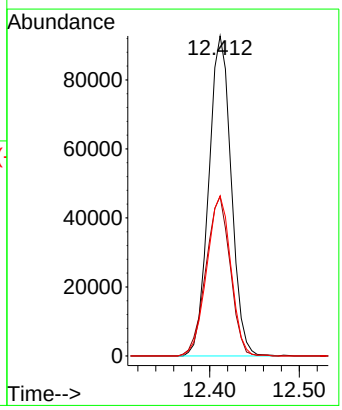


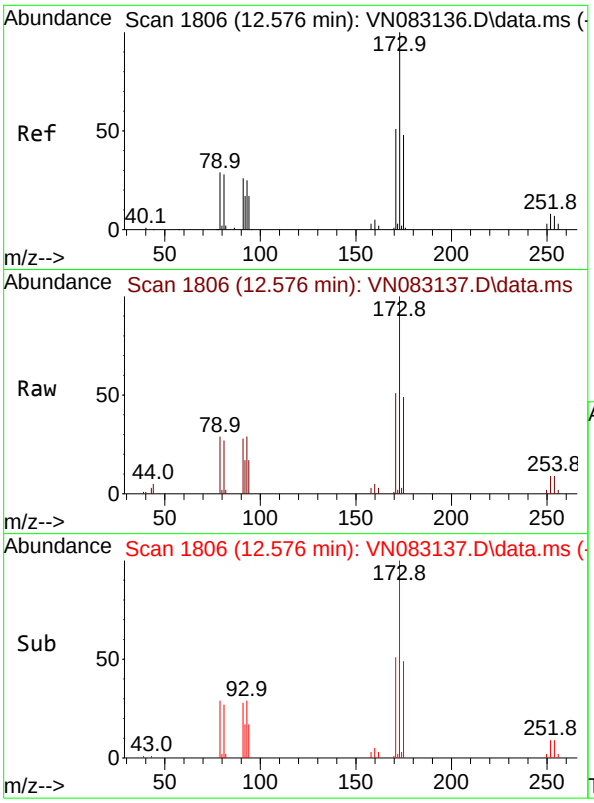


#70
Styrene
Concen: 20.475 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:104 Resp: 161342

Ion	Ratio	Lower	Upper
104	100		
78	53.7	41.6	62.4
103	53.8	44.0	66.0

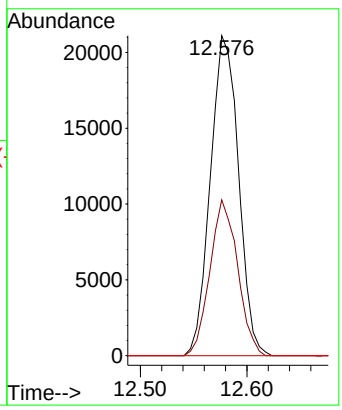




#71
Bromoform
Concen: 20.957 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:173 Resp: 3876

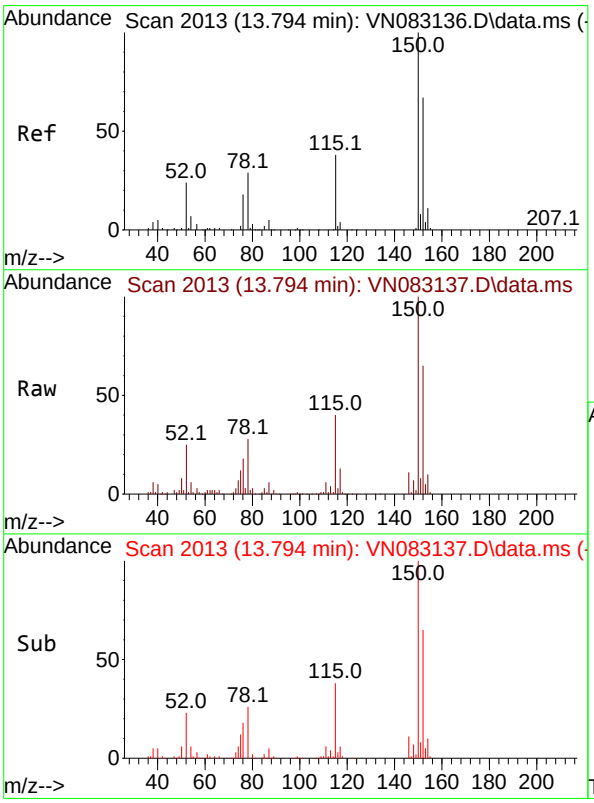
Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

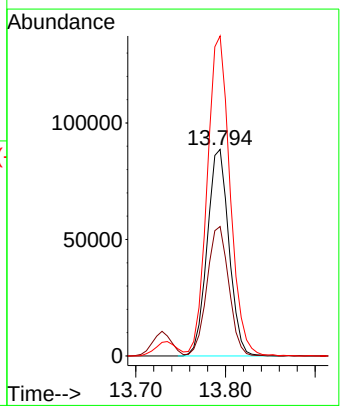
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

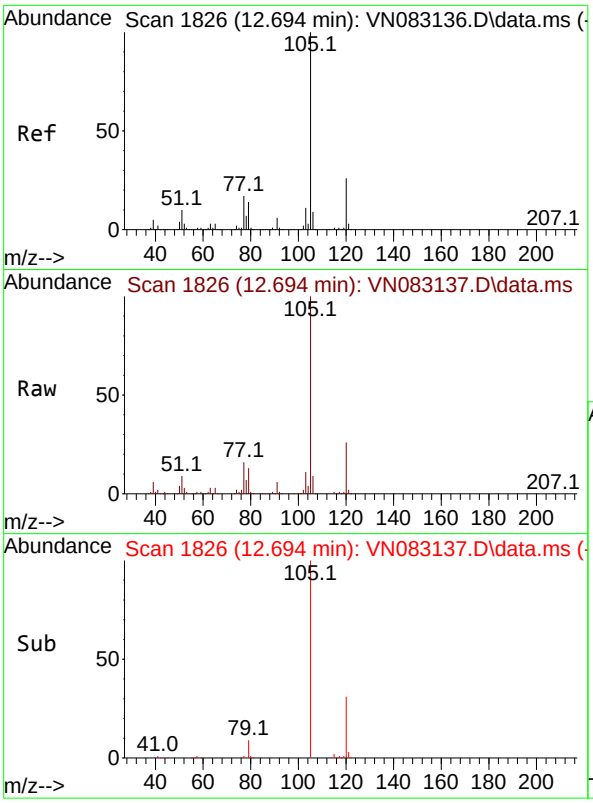


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:152 Resp: 149244

Ion	Ratio	Lower	Upper
152	100		
115	63.1	30.6	91.6
150	162.7	0.0	348.6

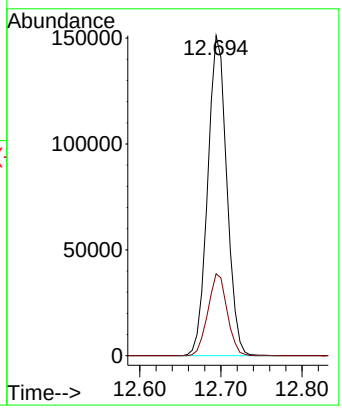




#73
Isopropylbenzene
Concen: 19.764 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:105 Resp: 24671

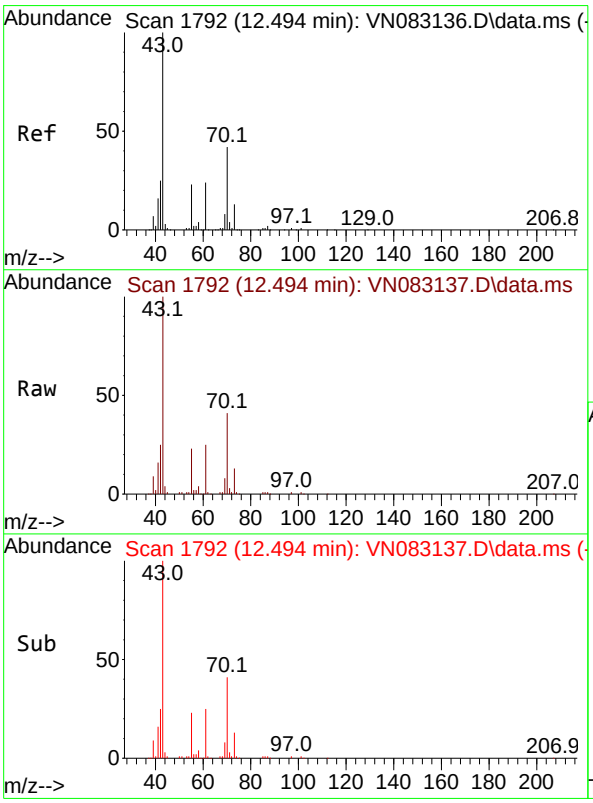
Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

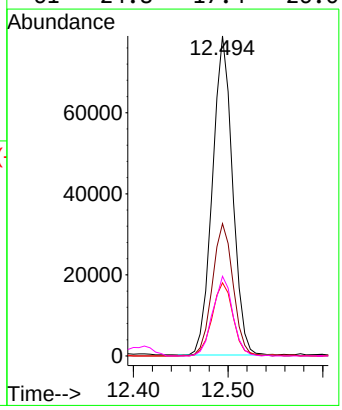
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

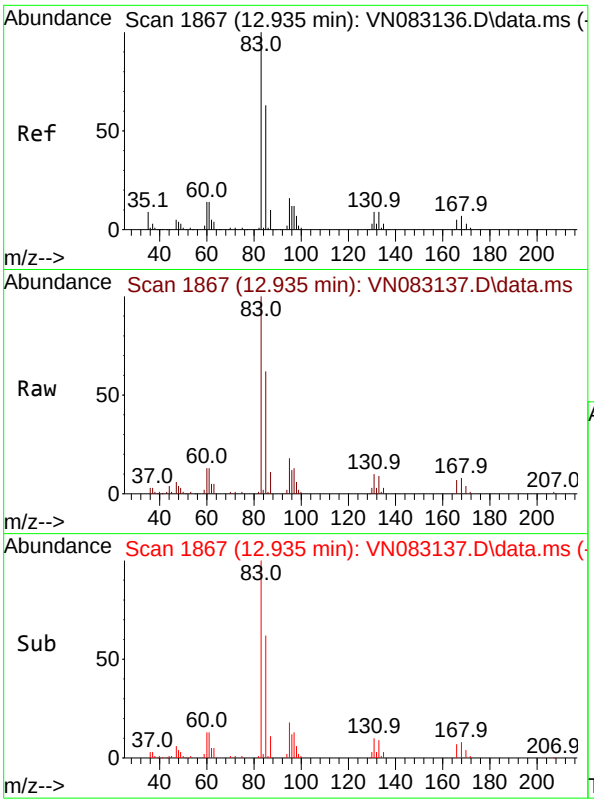


#74
N-amyl acetate
Concen: 19.014 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 116100

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

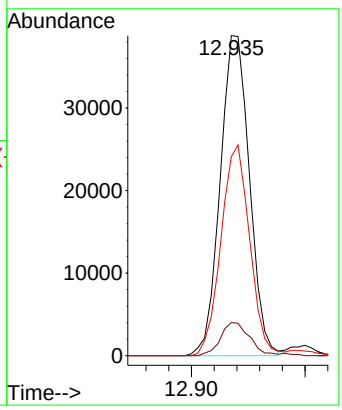




#75
1,1,2,2-Tetrachloroethane
Concen: 19.670 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 83 Resp: 6944

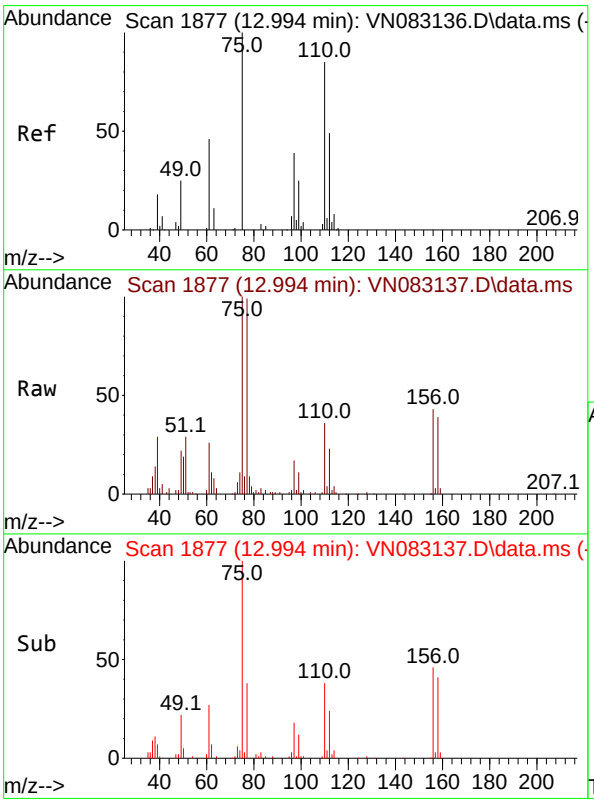
Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.0	14.9
85	64.6	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

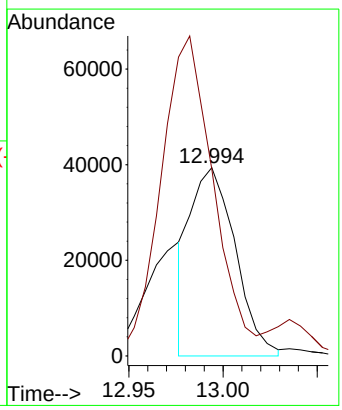
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

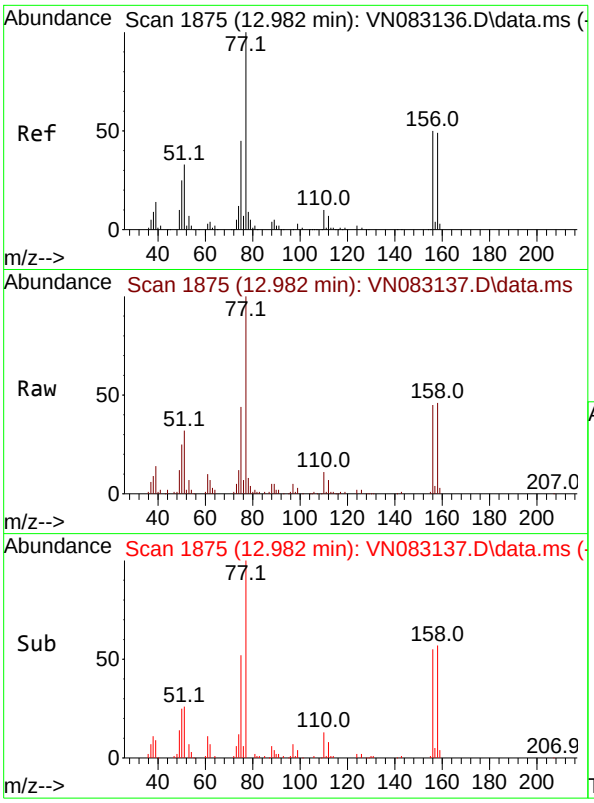


#76
1,2,3-Trichloropropane
Concen: 19.901 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 65295

Ion	Ratio	Lower	Upper
75	100		
77	199.0	110.9	332.6

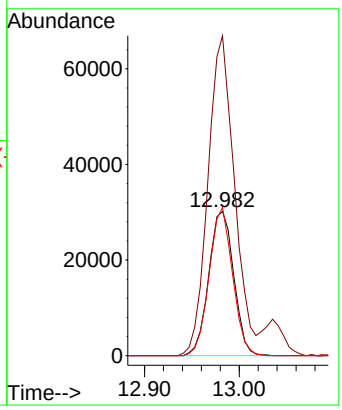




#77
Bromobenzene
Concen: 19.952 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:156 Resp: 5532

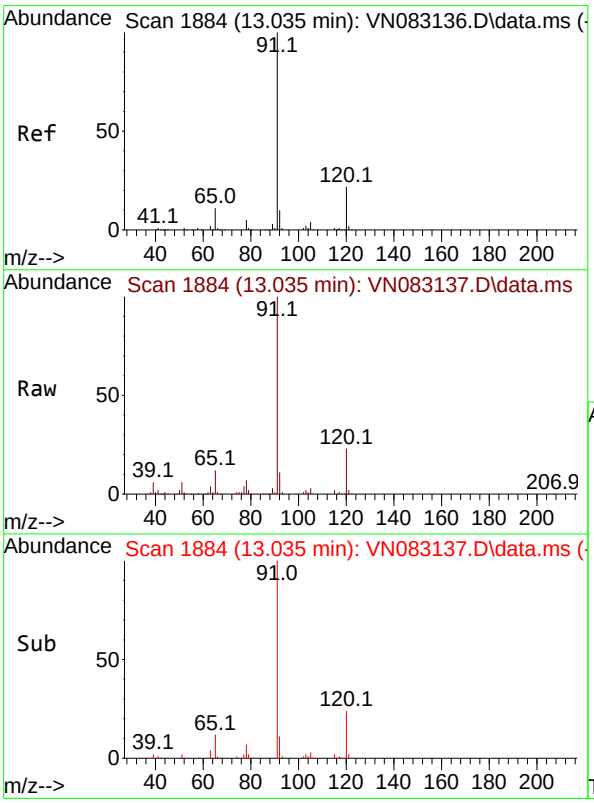
Ion	Ratio	Lower	Upper
156	100		
77	234.8	111.3	333.8
158	95.8	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

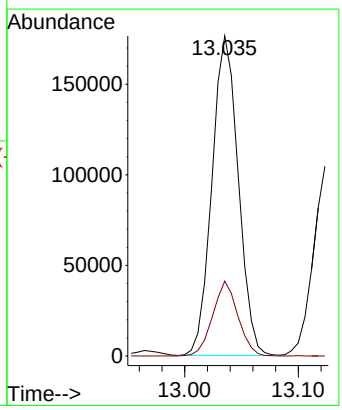
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

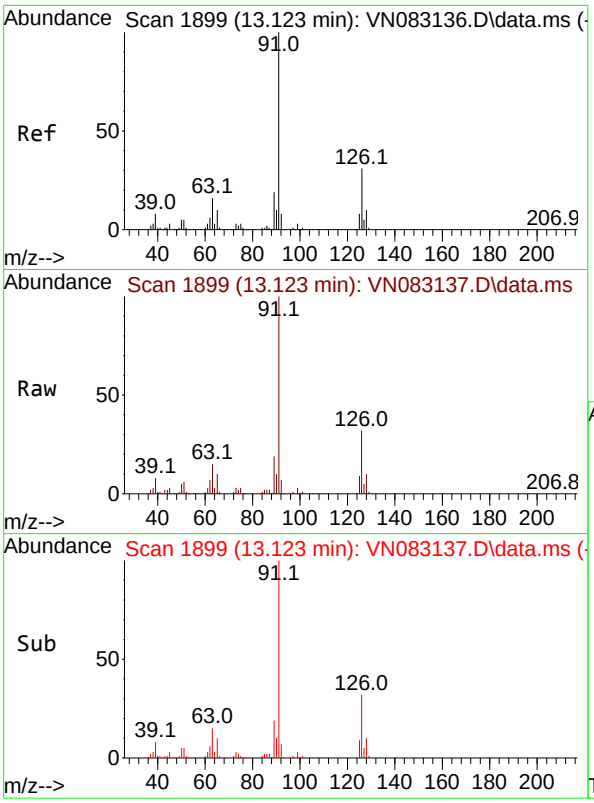


#78
n-propylbenzene
Concen: 19.740 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 283745

Ion	Ratio	Lower	Upper
91	100		
120	22.4	10.9	32.9

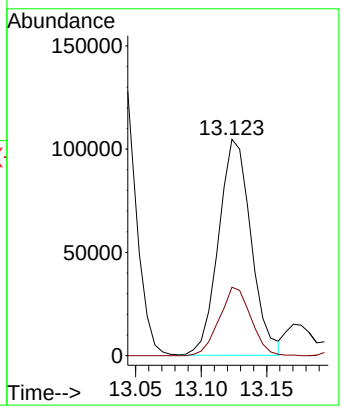




#79
2-Chlorotoluene
Concen: 19.827 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 18068

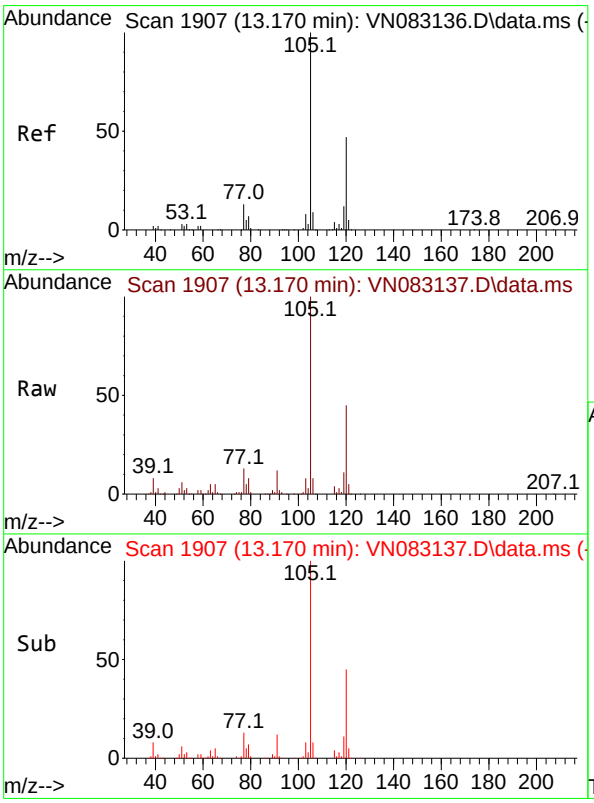
Ion	Ratio	Lower	Upper
91	100		
126	30.7	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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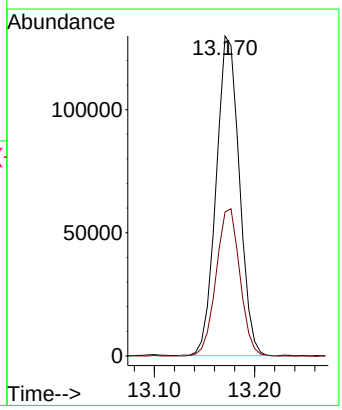
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

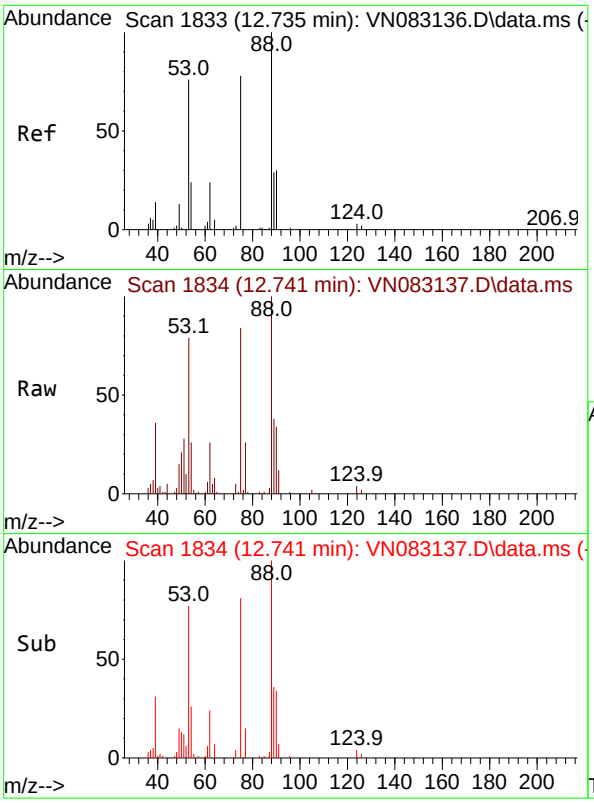


#80
1,3,5-Trimethylbenzene
Concen: 19.938 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:105 Resp: 208367

Ion	Ratio	Lower	Upper
105	100		
120	47.2	24.3	72.8





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

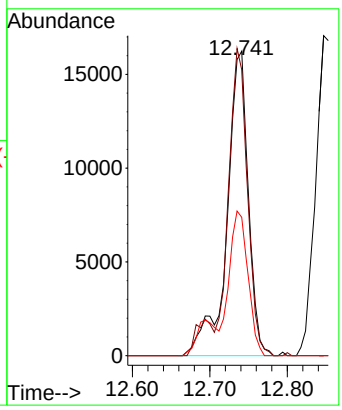
Tgt Ion: 75 Resp: 3126

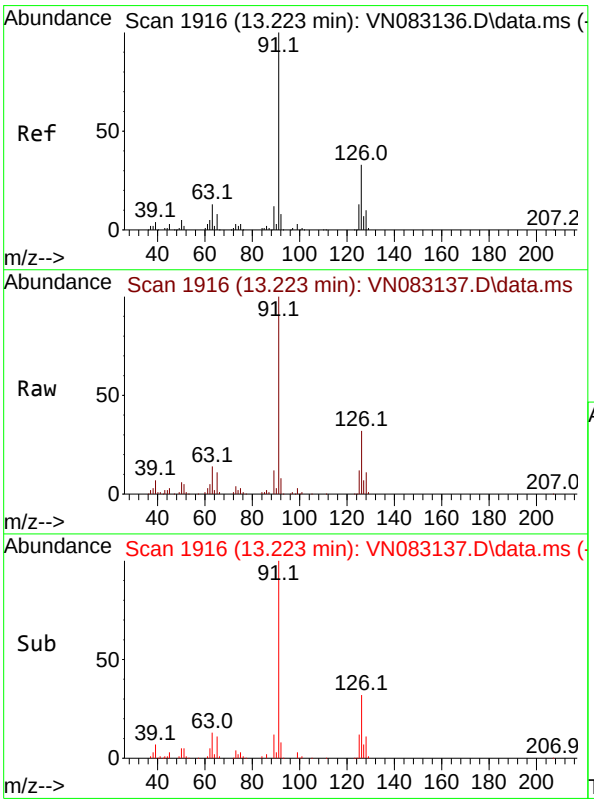
Ion	Ratio	Lower	Upper
75	100		
53	88.0	88.4	132.6
89	41.4	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

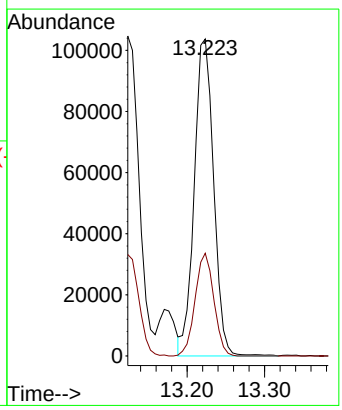


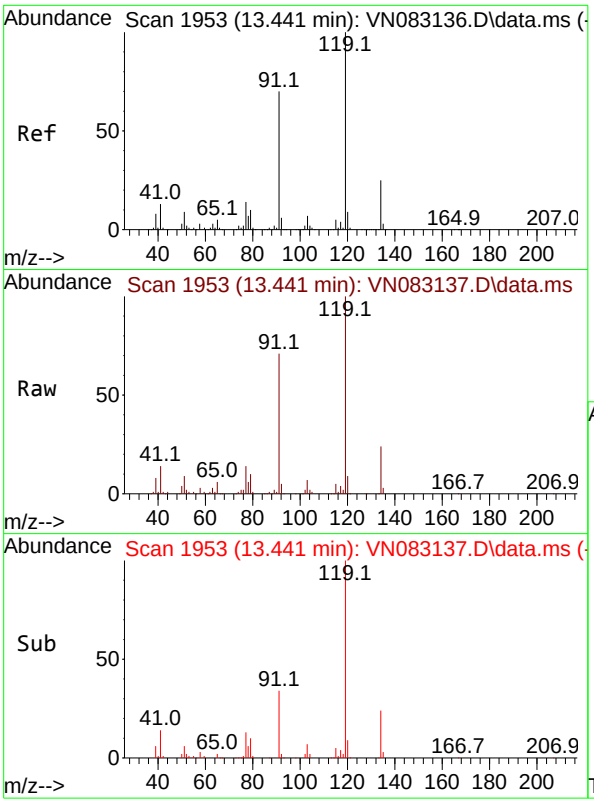


#82
4-Chlorotoluene
Concen: 19.684 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 179932

Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.2	48.6

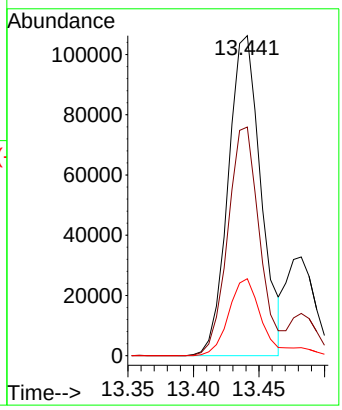




#83
tert-Butylbenzene
Concen: 19.985 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:119 Resp: 18496

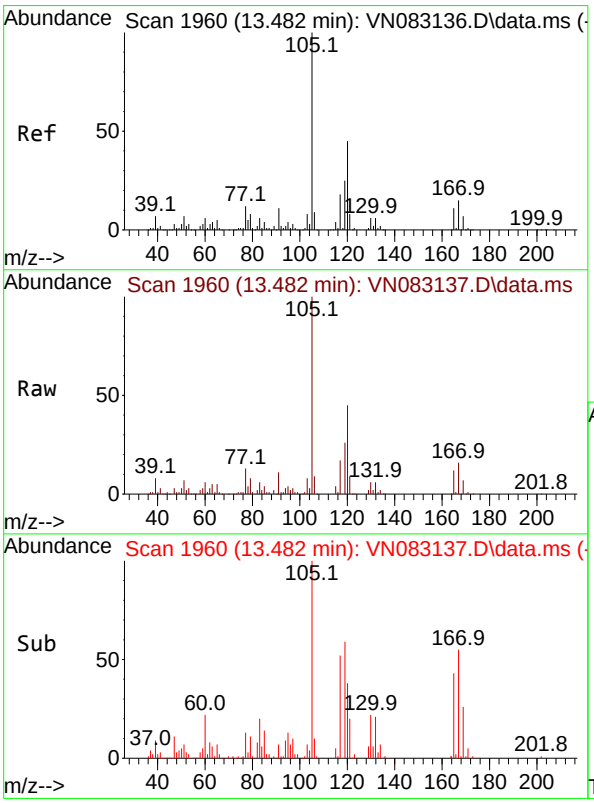
Ion	Ratio	Lower	Upper
119	100		
91	70.2	35.0	105.1
134	25.2	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

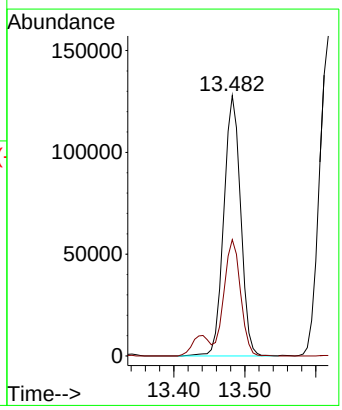
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

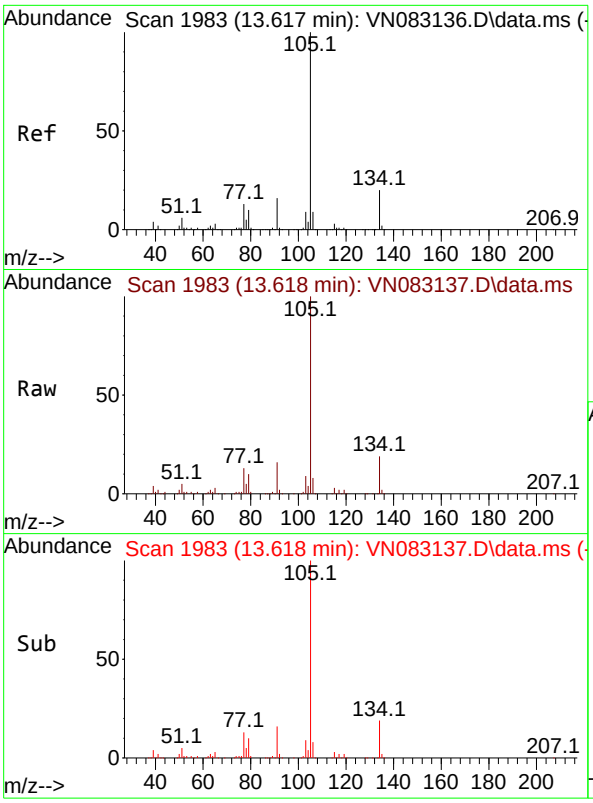


#84
1,2,4-Trimethylbenzene
Concen: 19.984 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:105 Resp: 210474

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.9	65.8





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

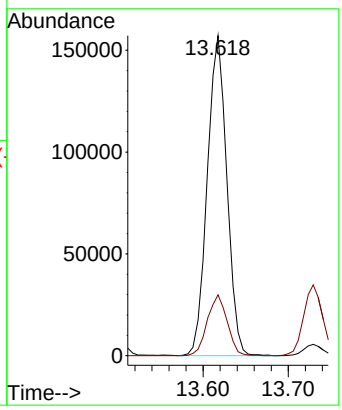
Tgt Ion:105 Resp: 25082

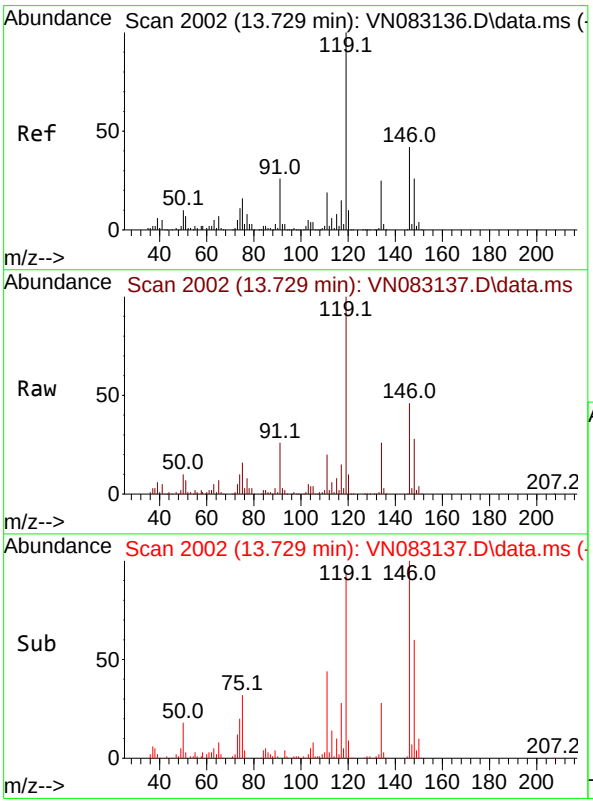
Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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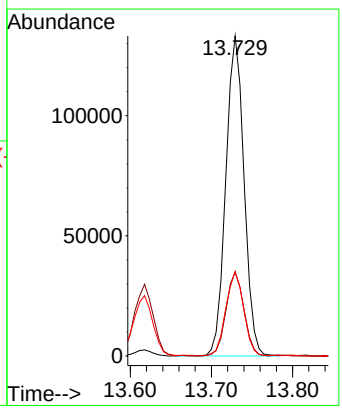


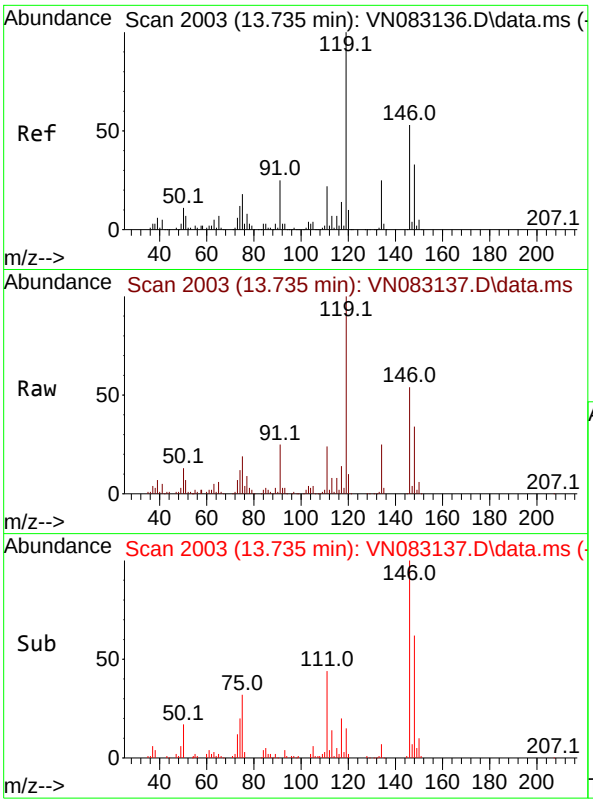


#86
p-Isopropyltoluene
Concen: 19.986 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:119 Resp: 208404

Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.0	39.0
91	25.8	12.3	36.9

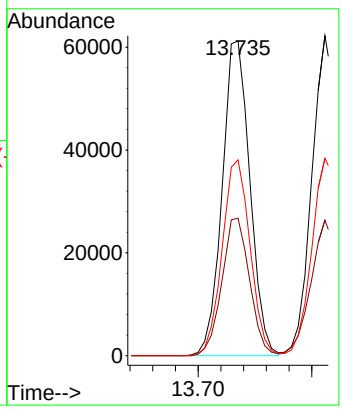




#87
1,3-Dichlorobenzene
Concen: 19.897 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:146 Resp: 10381

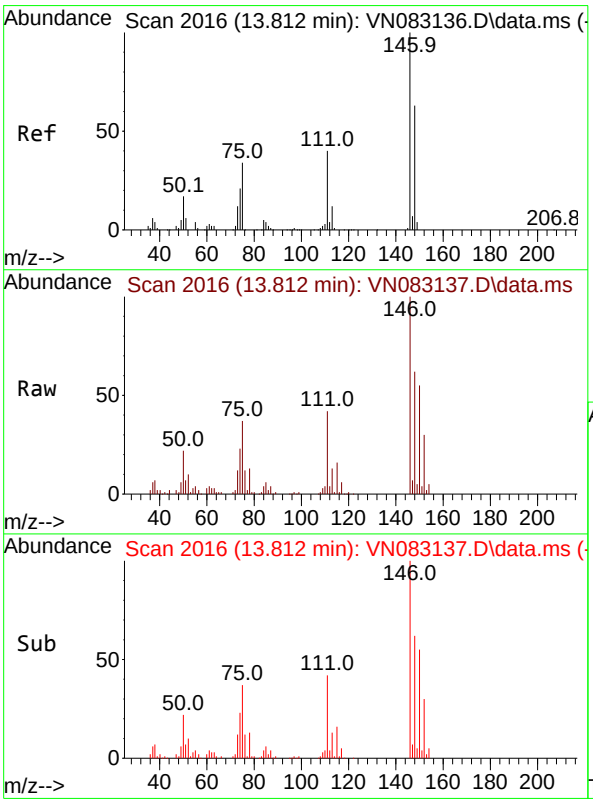
Ion	Ratio	Lower	Upper
146	100		
111	43.7	20.6	61.9
148	62.7	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

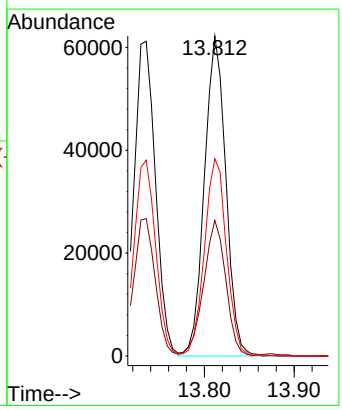
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

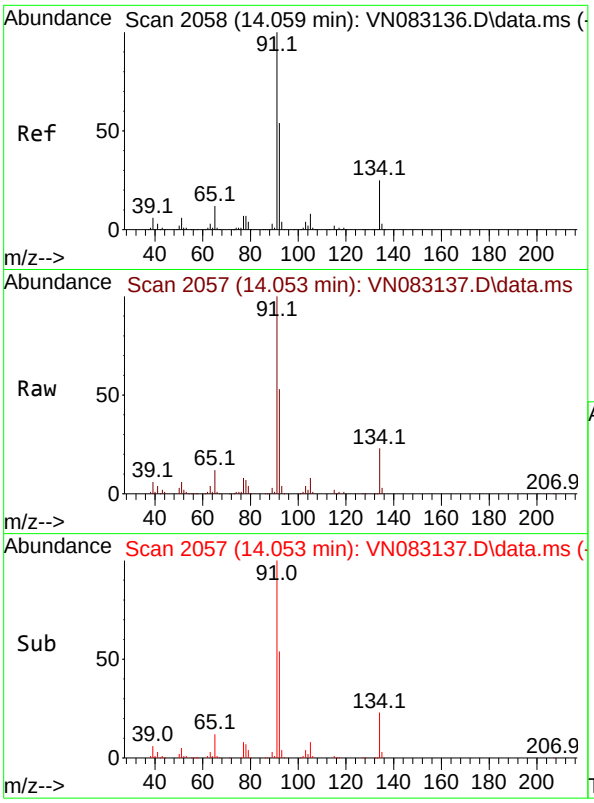


#88
1,4-Dichlorobenzene
Concen: 19.605 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:146 Resp: 103132

Ion	Ratio	Lower	Upper
146	100		
111	43.2	20.1	60.3
148	63.5	32.2	96.6





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

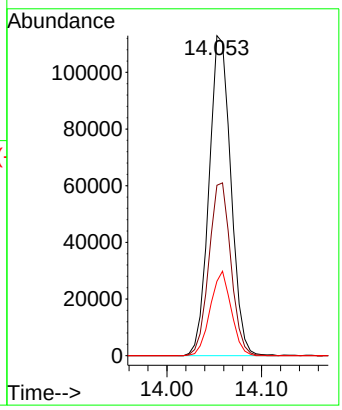
Tgt Ion: 91 Resp: 18048

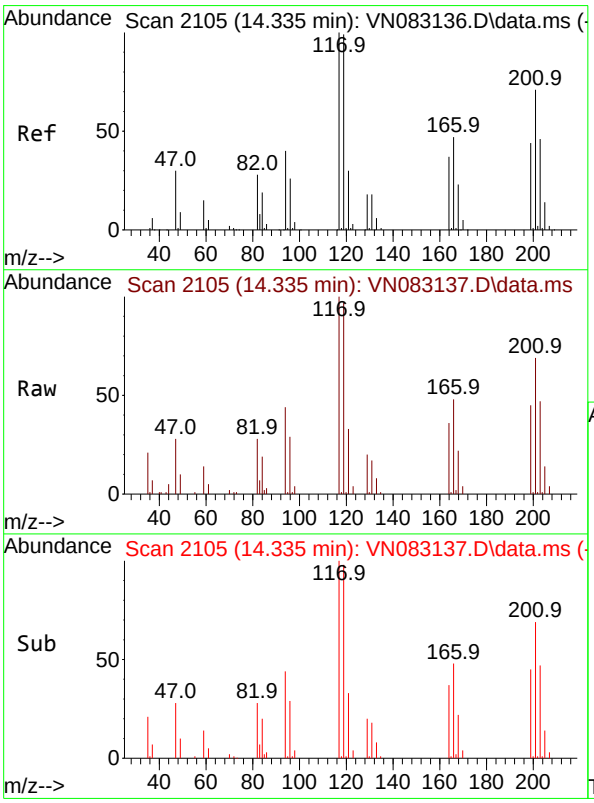
Ion	Ratio	Lower	Upper
91	100		
92	54.3	26.1	78.3
134	25.4	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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

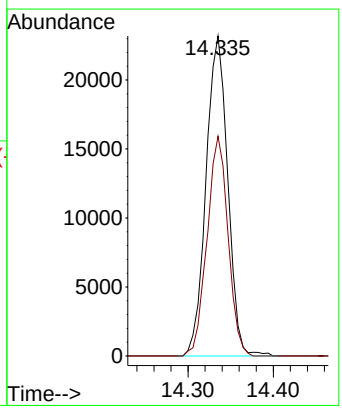


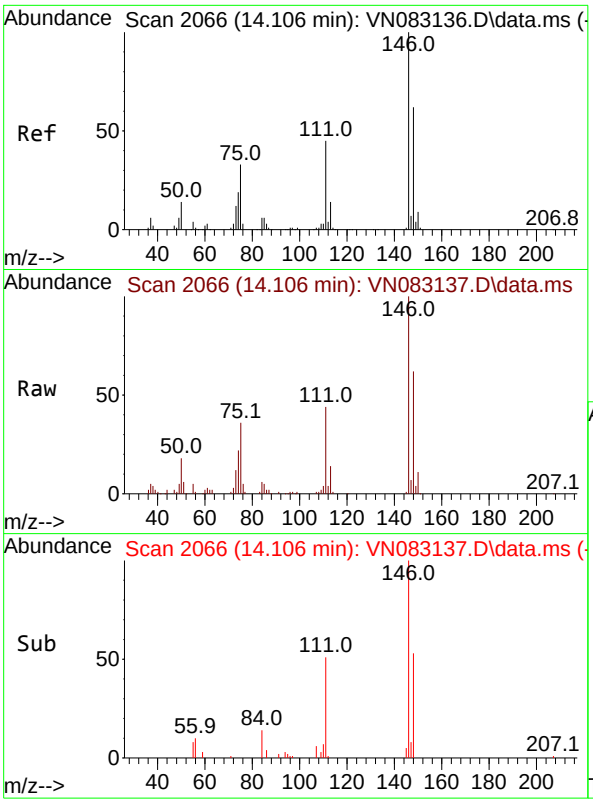


#90
Hexachloroethane
Concen: 20.343 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:117 Resp: 40982

Ion	Ratio	Lower	Upper
117	100		
201	66.5	35.8	107.3

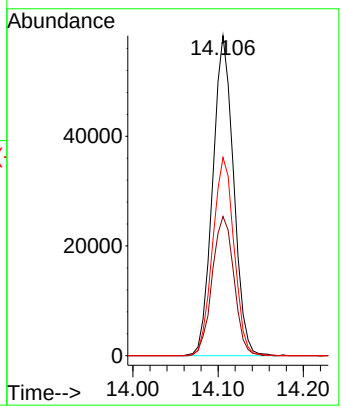




#91
1,2-Dichlorobenzene
Concen: 19.673 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:146 Resp: 9933

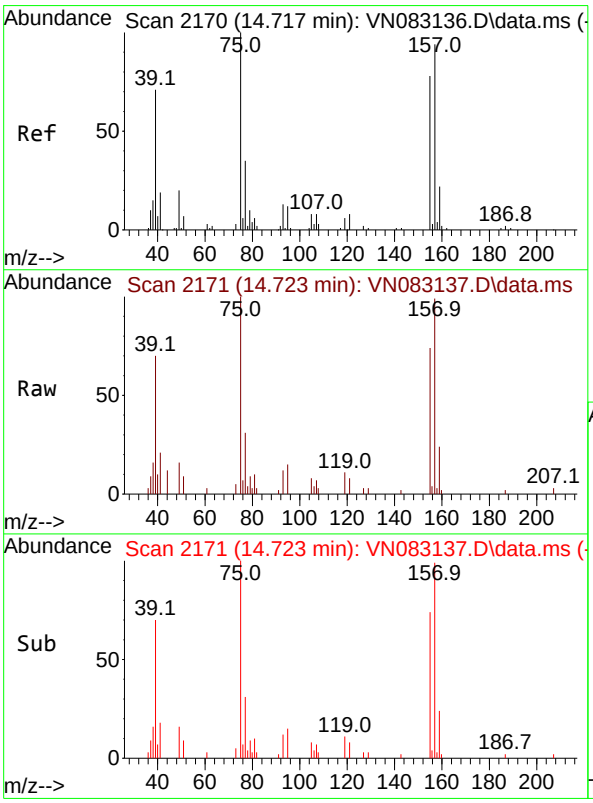
Ion	Ratio	Lower	Upper
146	100		
111	45.3	21.4	64.2
148	63.5	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

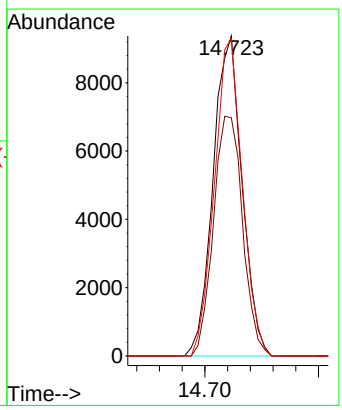
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

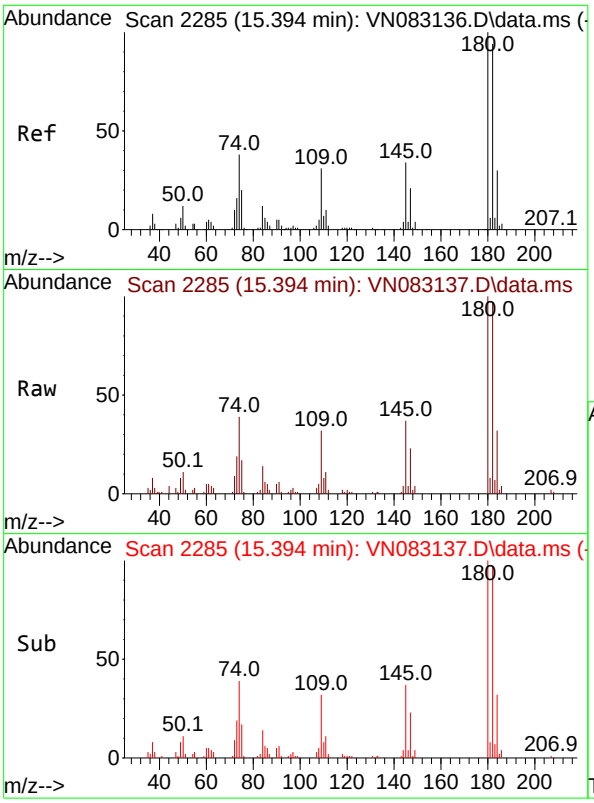


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.320 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 16552

Ion	Ratio	Lower	Upper
75	100		
155	75.5	36.6	109.8
157	95.6	46.9	140.6





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

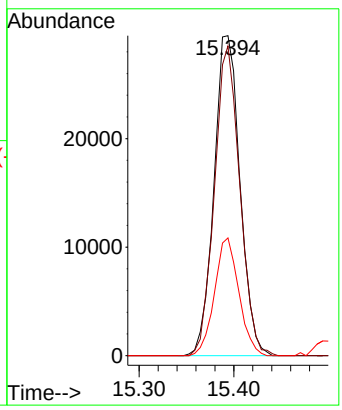
Tgt Ion:180 Resp: 5629

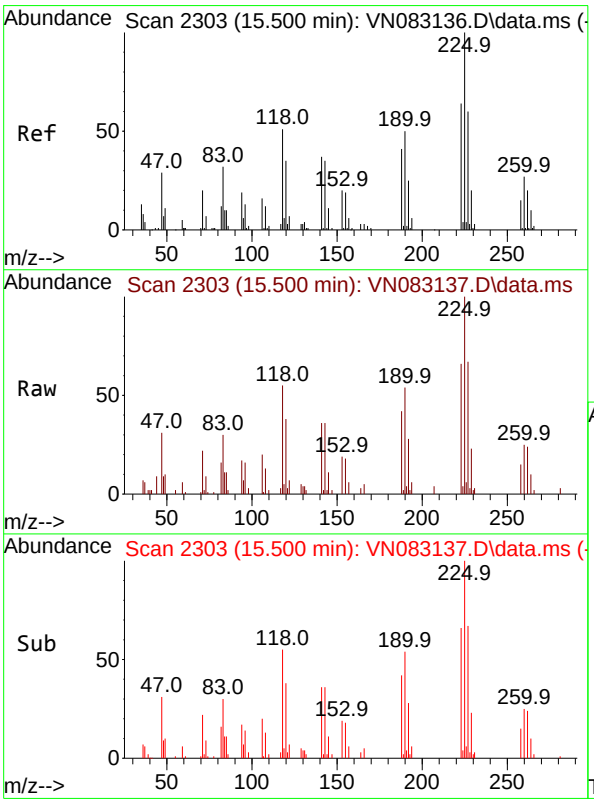
Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.3	141.8
145	34.5	15.7	47.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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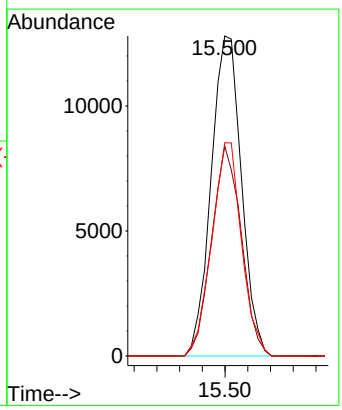


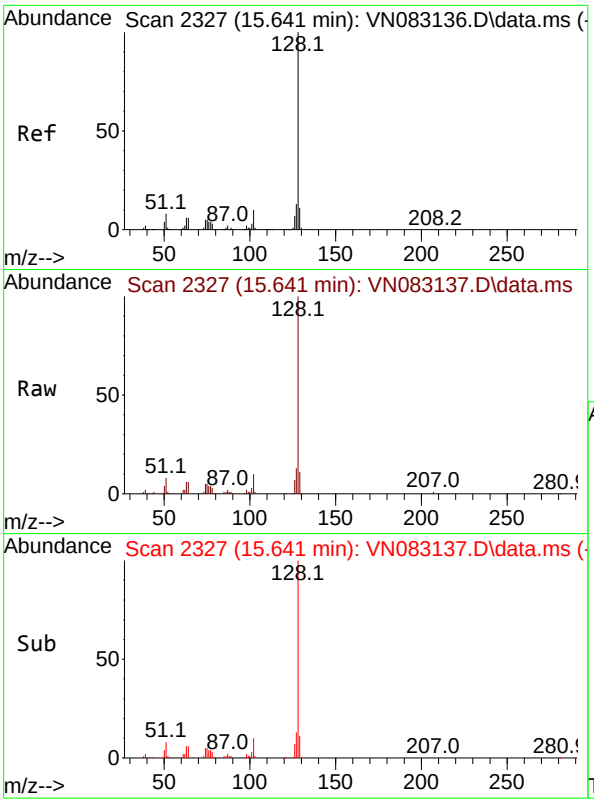


#94
Hexachlorobutadiene
Concen: 18.859 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:225 Resp: 23725

Ion	Ratio	Lower	Upper
225	100		
223	64.3	31.9	95.7
227	65.7	32.5	97.5

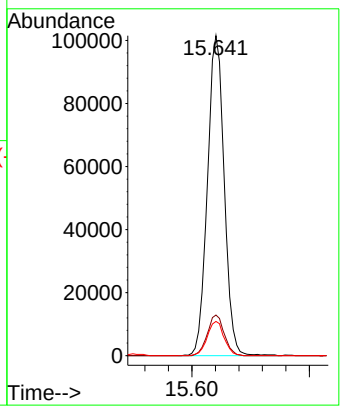




#95
Naphthalene
Concen: 20.047 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:128 Resp: 20087

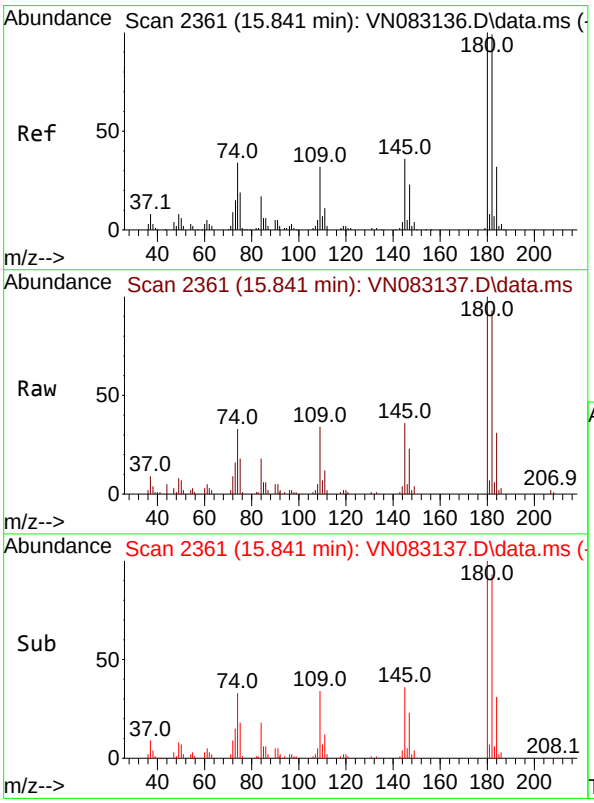
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

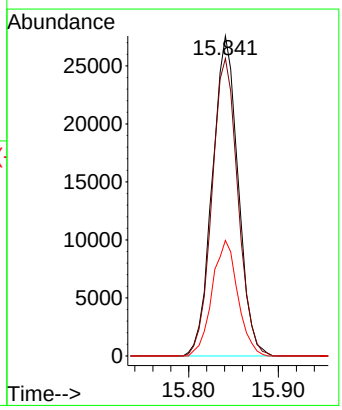
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



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

Tgt Ion:180 Resp: 54944

Ion	Ratio	Lower	Upper
180	100		
182	93.5	48.9	146.8
145	35.9	16.8	50.4



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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

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

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

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

ICAL Form

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

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

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

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

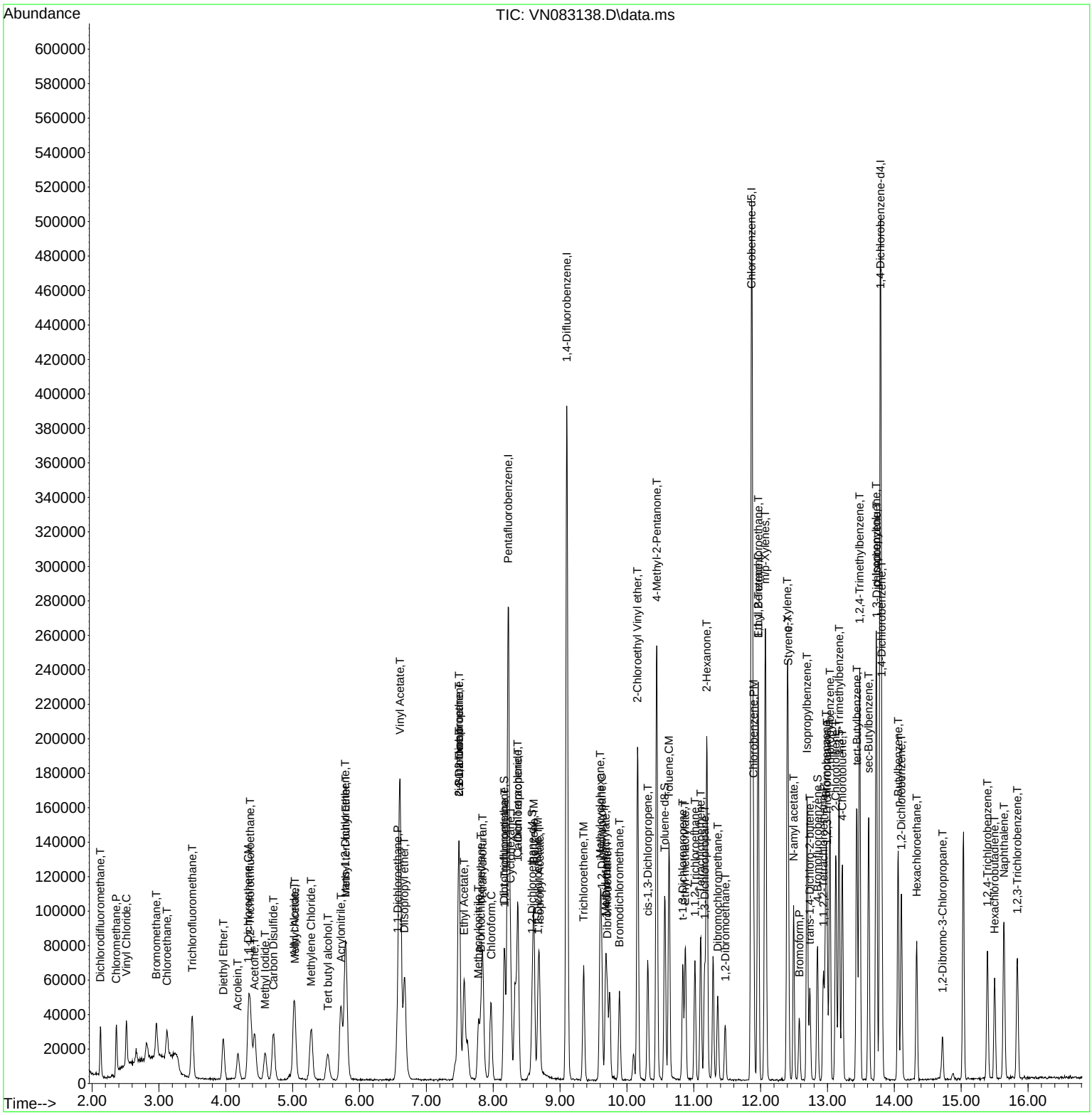
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Data File : VN083138.D
Acq On : 07 Aug 2024 11:46
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

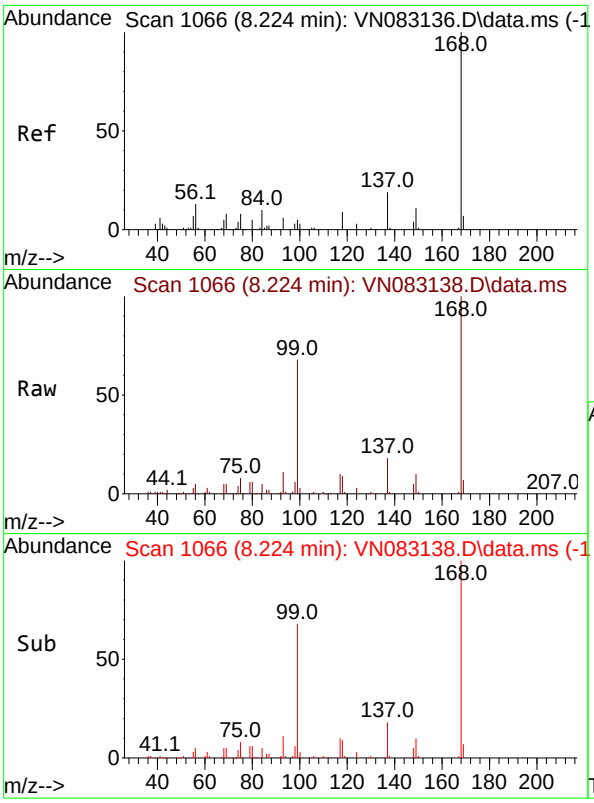
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
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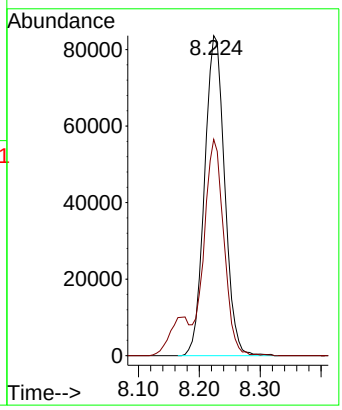




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:168 Resp: 19175

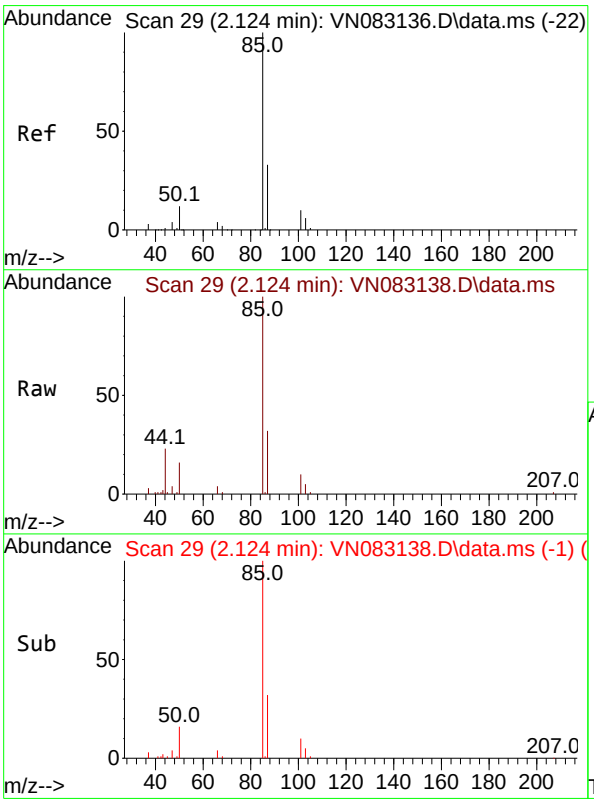
Ion	Ratio	Lower	Upper
168	100		
99	67.6	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

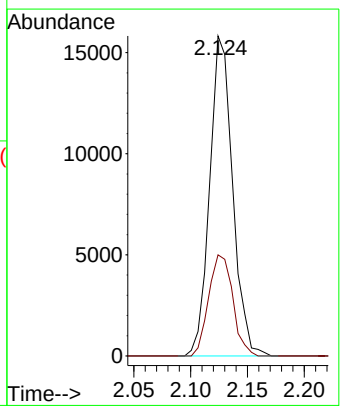
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

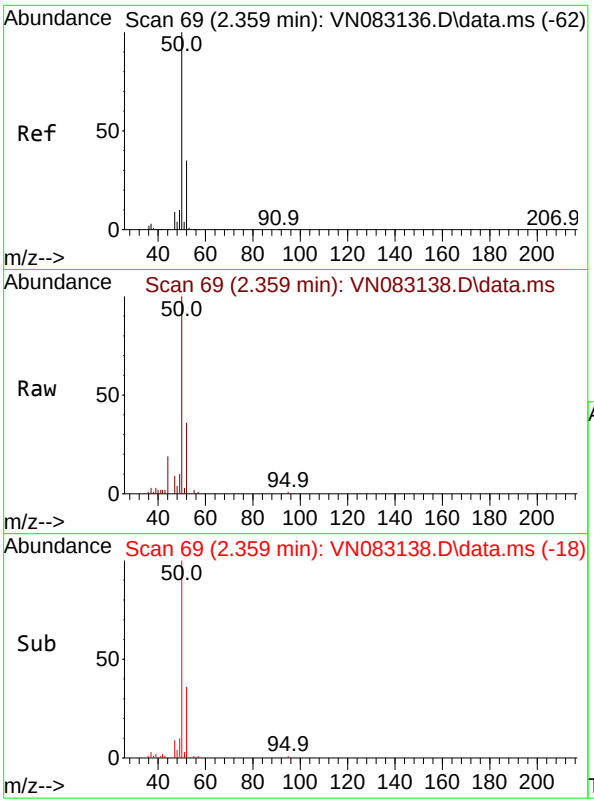


#2
Dichlorodifluoromethane
Concen: 10.212 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 85 Resp: 22206

Ion	Ratio	Lower	Upper
85	100		
87	31.6	15.7	47.0

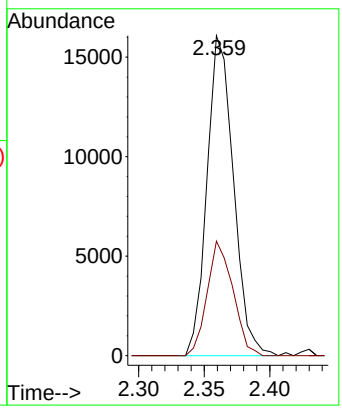




#3
Chloromethane
Concen: 10.150 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 50 Resp: 2259

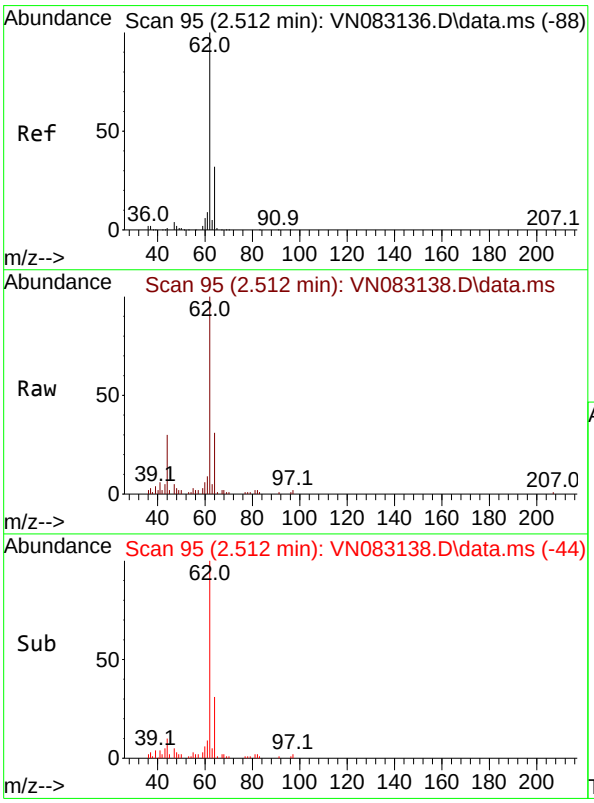
Ion	Ratio	Lower	Upper
50	100		
52	35.8	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

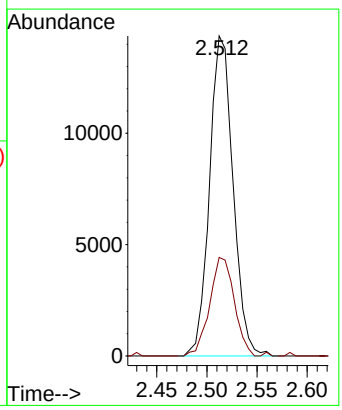
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

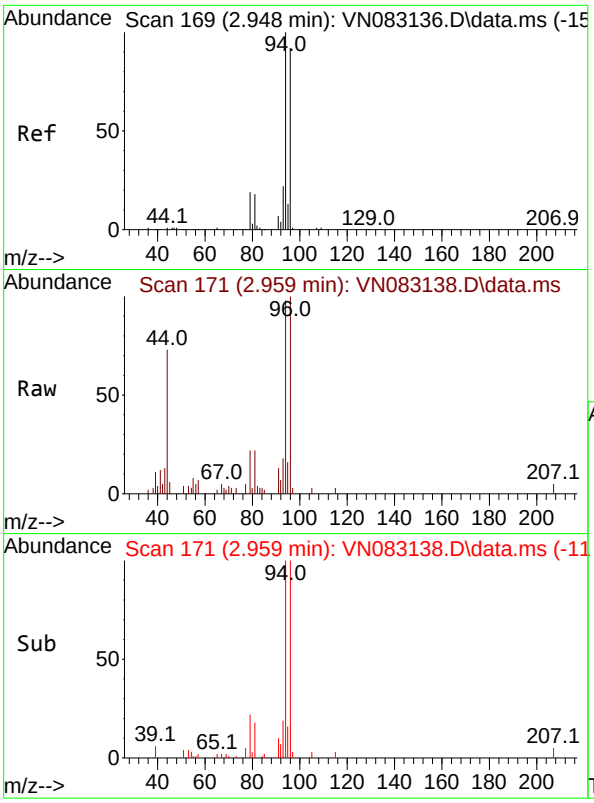


#4
Vinyl Chloride
Concen: 10.328 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 62 Resp: 23461

Ion	Ratio	Lower	Upper
62	100		
64	30.8	25.0	37.6

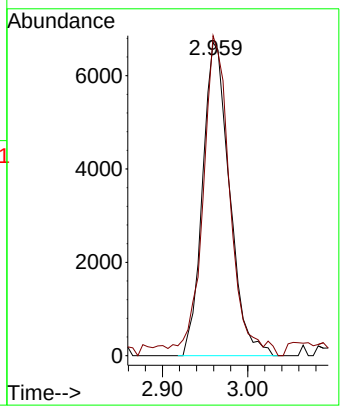




#5
Bromomethane
Concen: 10.488 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 94 Resp: 1478

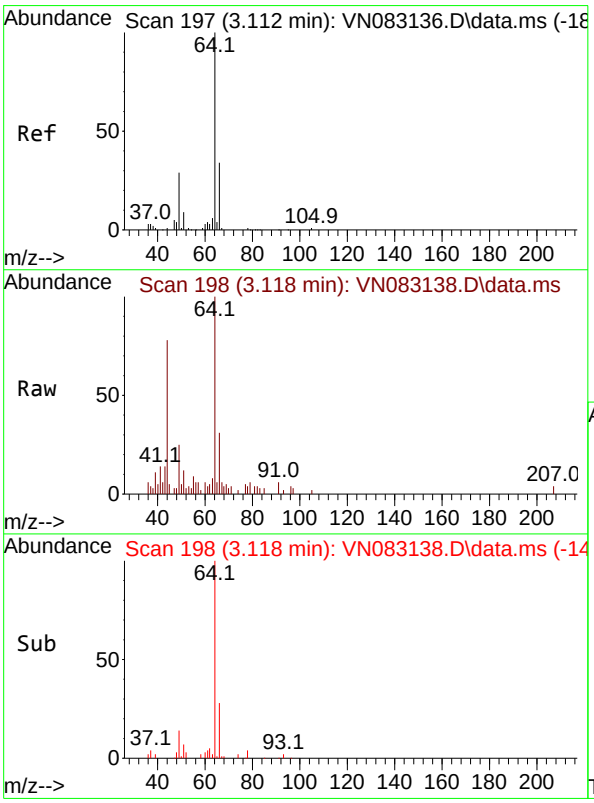
Ion	Ratio	Lower	Upper
94	100		
96	102.2	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

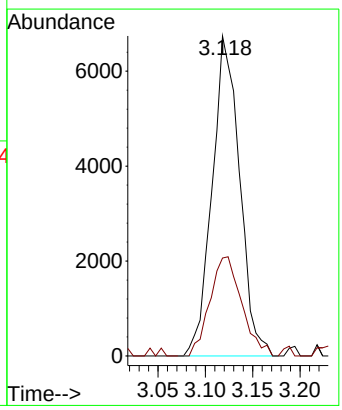
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

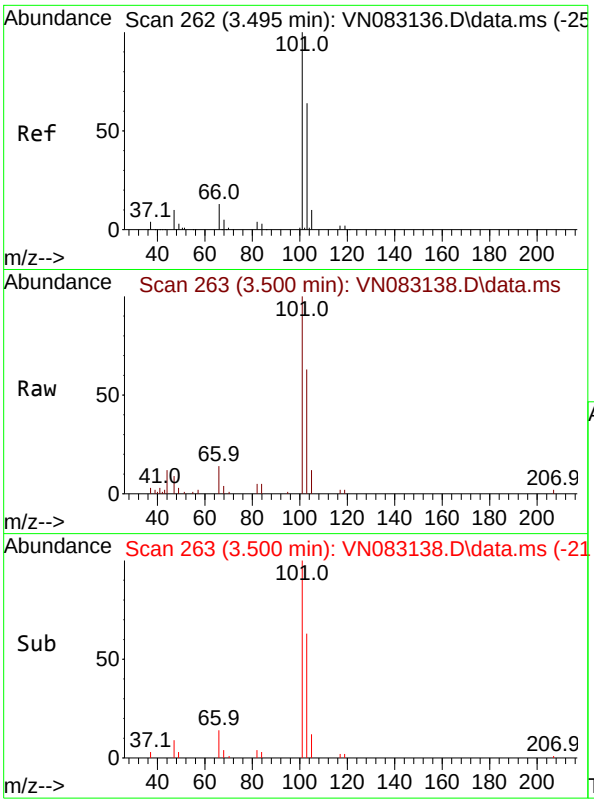


#6
Chloroethane
Concen: 9.581 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 64 Resp: 13616

Ion	Ratio	Lower	Upper
64	100		
66	30.6	26.6	40.0





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

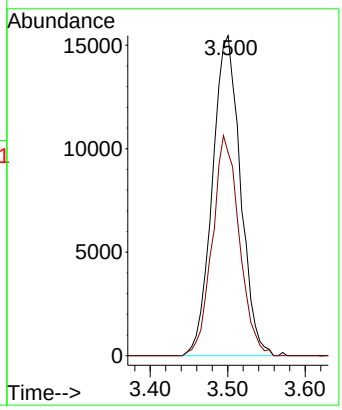
Tgt Ion:101 Resp: 3886

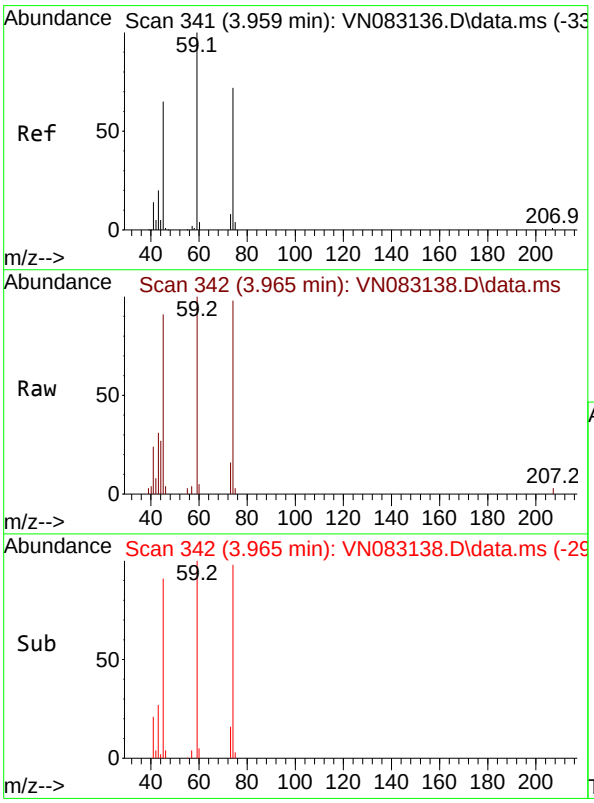
Ion	Ratio	Lower	Upper
101	100		
103	63.5	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

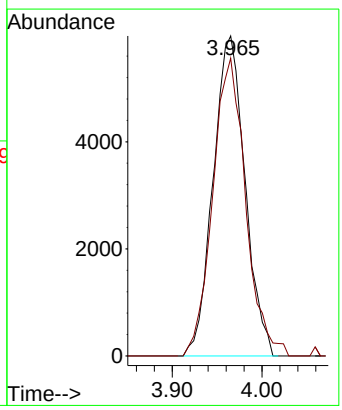


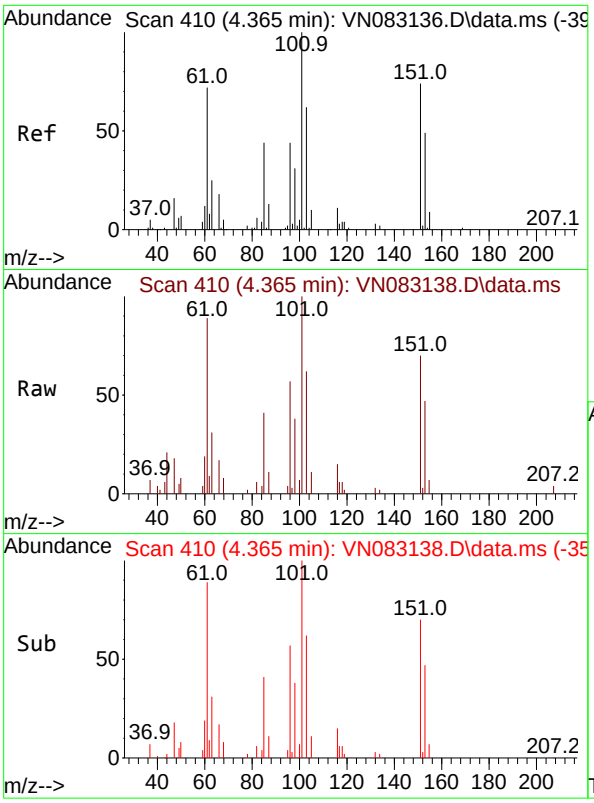


#8
Diethyl Ether
Concen: 10.571 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 74 Resp: 14761

Ion	Ratio	Lower	Upper
74	100		
45	95.9	55.5	166.3

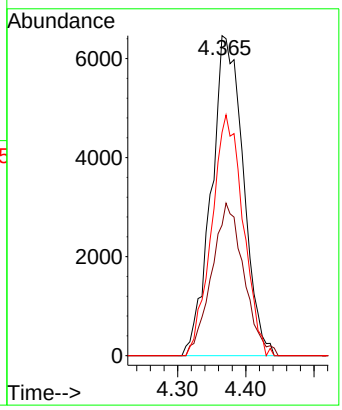




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.189 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:101 Resp: 2108

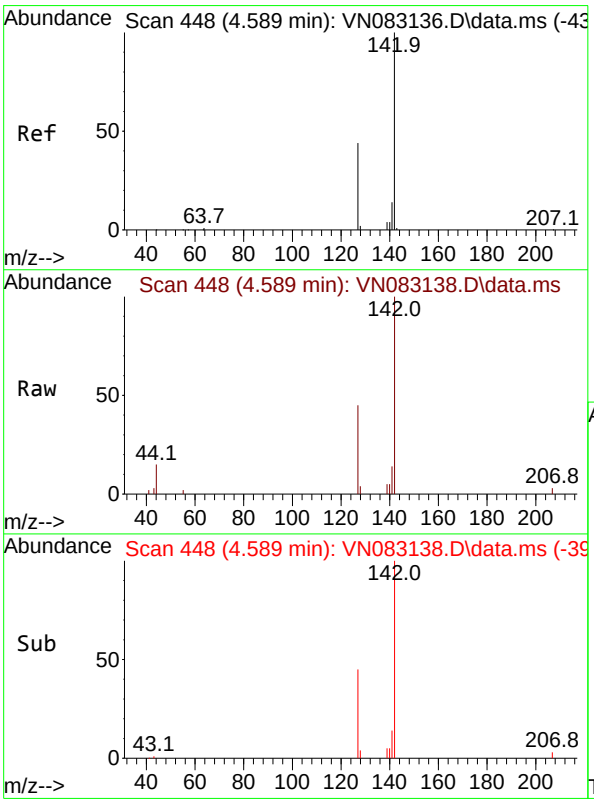
Ion	Ratio	Lower	Upper
101	100		
85	48.0	38.3	57.5
151	74.1	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

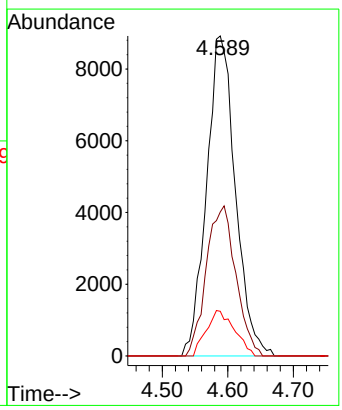
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

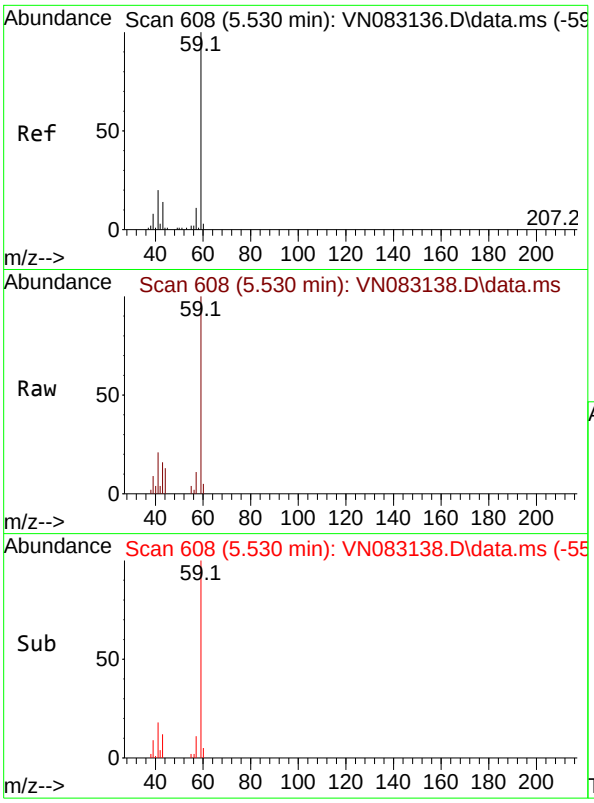


#10
Methyl Iodide
Concen: 10.005 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:142 Resp: 27229

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

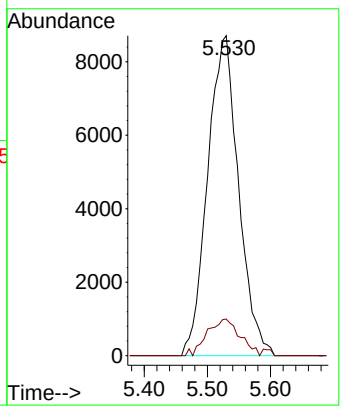




#11
Tert butyl alcohol
Concen: 52.299 ug/l
RT: 5.530 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 59 Resp: 2966

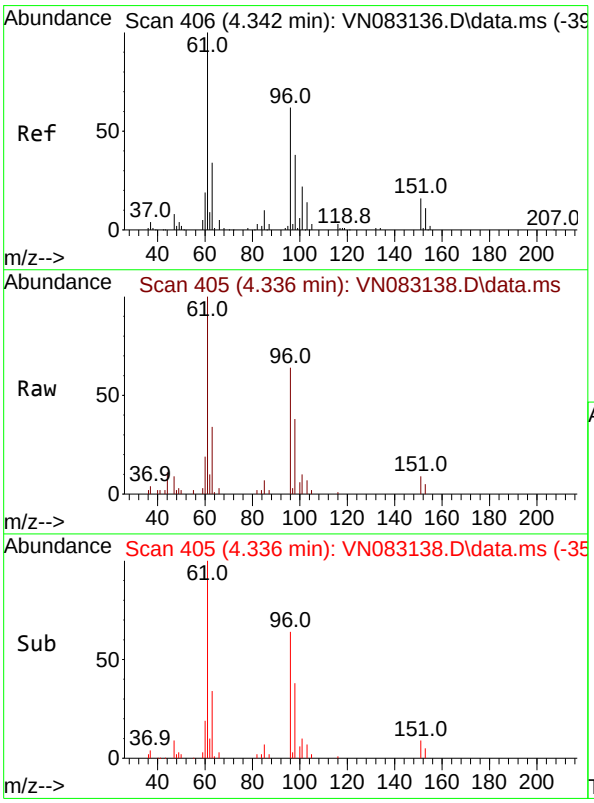
Ion	Ratio	Lower	Upper
59	100		
57	12.1	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

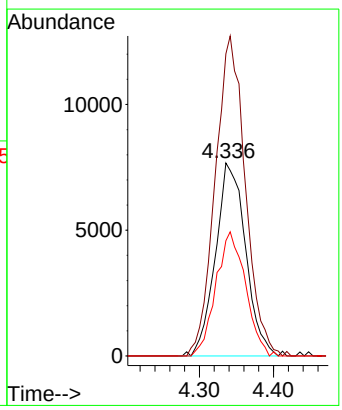
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

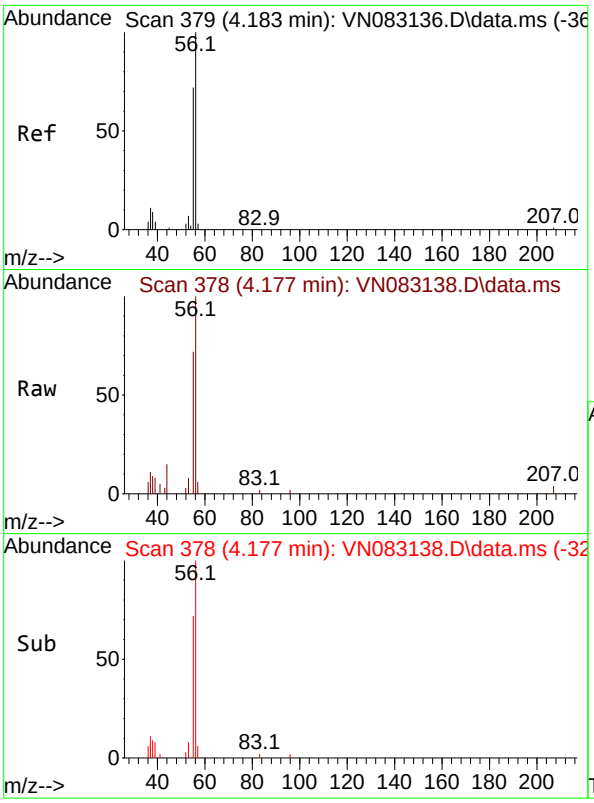


#12
1,1-Dichloroethene
Concen: 10.177 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 96 Resp: 21633

Ion	Ratio	Lower	Upper
96	100		
61	156.5	149.7	224.5
98	59.7	50.1	75.1

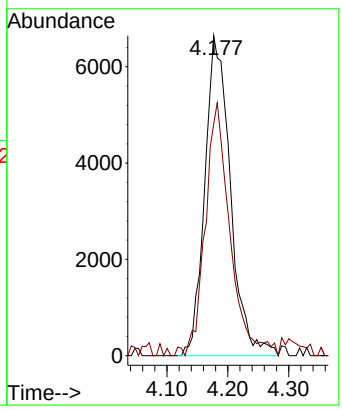




#13
Acrolein
Concen: 52.469 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 56 Resp: 1939

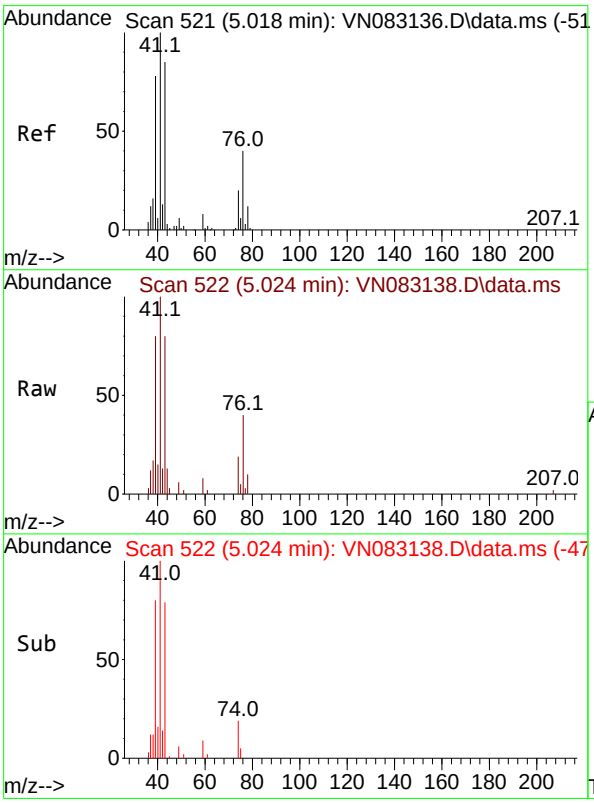
Ion	Ratio	Lower	Upper
56	100		
55	77.0	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

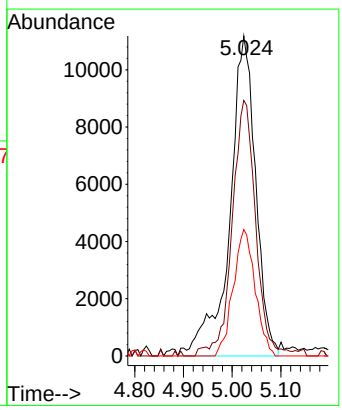
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

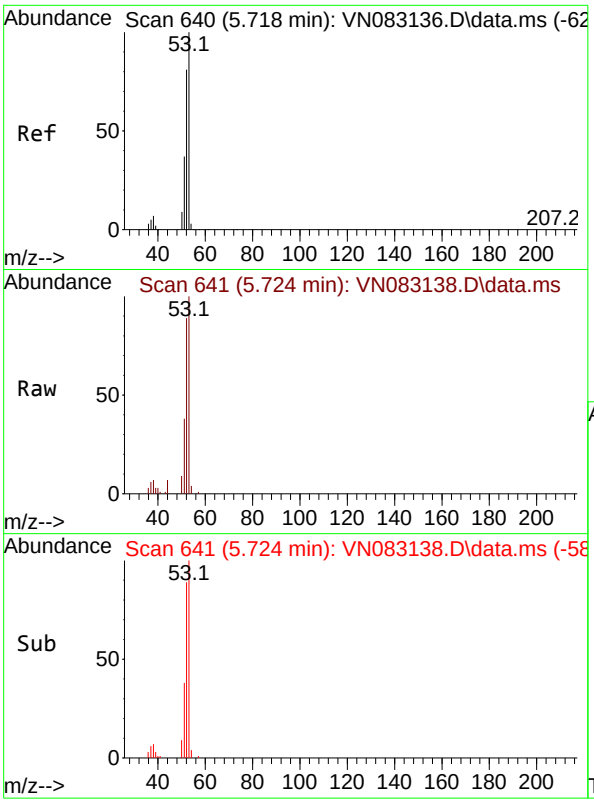


#14
Allyl chloride
Concen: 10.343 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 41 Resp: 41546

Ion	Ratio	Lower	Upper
41	100		
39	72.0	67.8	101.6
76	33.2	25.8	38.8

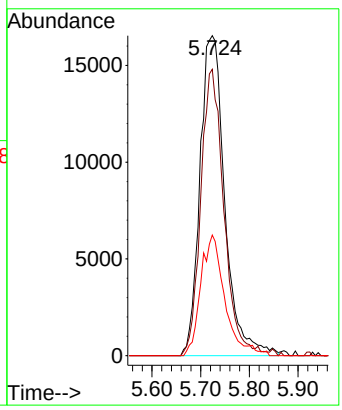




#15
Acrylonitrile
Concen: 50.248 ug/l
RT: 5.724 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 53 Resp: 5861

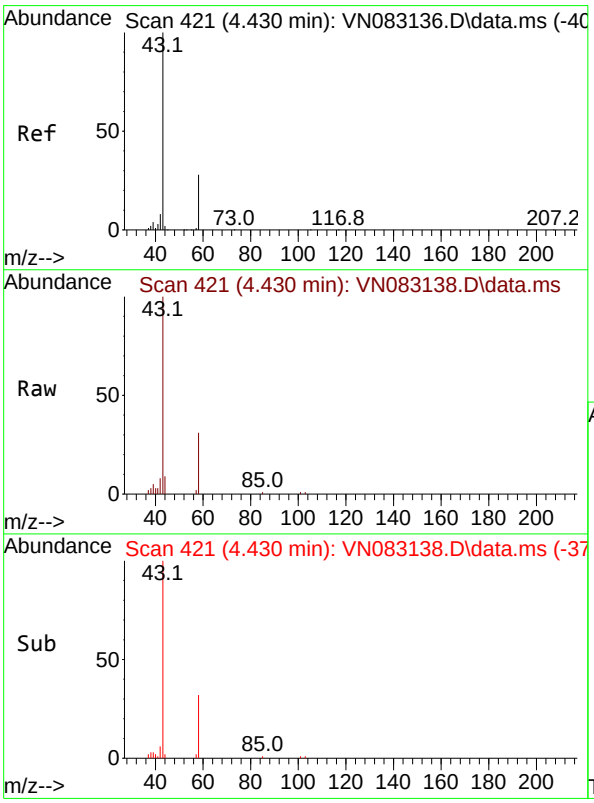
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.6	100.0
51	36.6	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

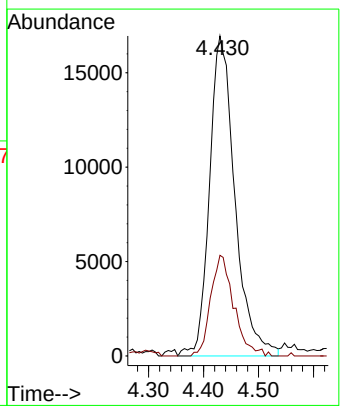
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

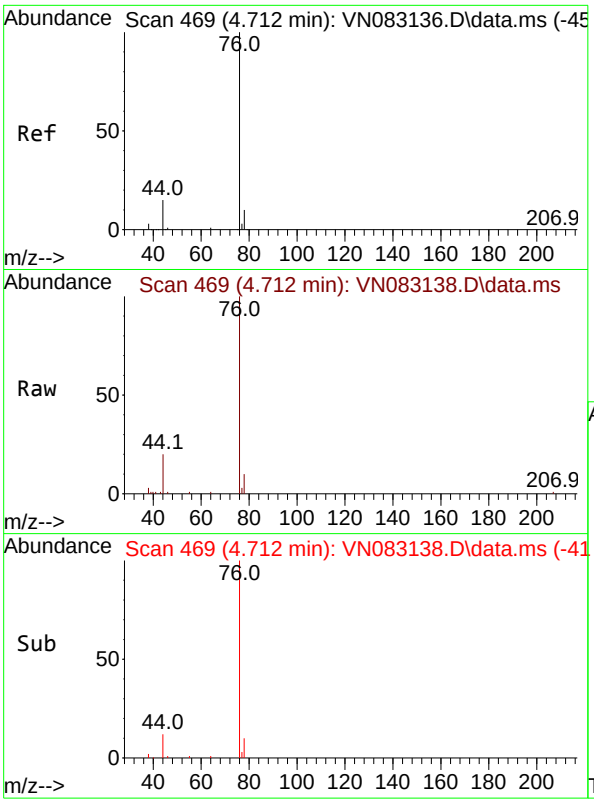


#16
Acetone
Concen: 50.933 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 54397

Ion	Ratio	Lower	Upper
43	100		
58	31.4	21.8	32.6

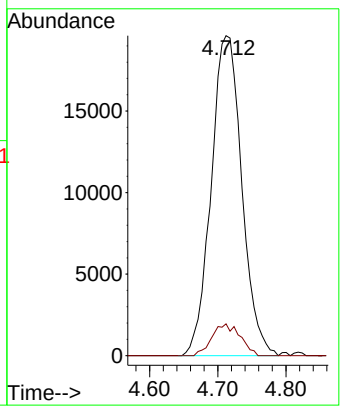




#17
Carbon Disulfide
Concen: 9.860 ug/l
RT: 4.712 min Scan# 4(
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 76 Resp: 6132

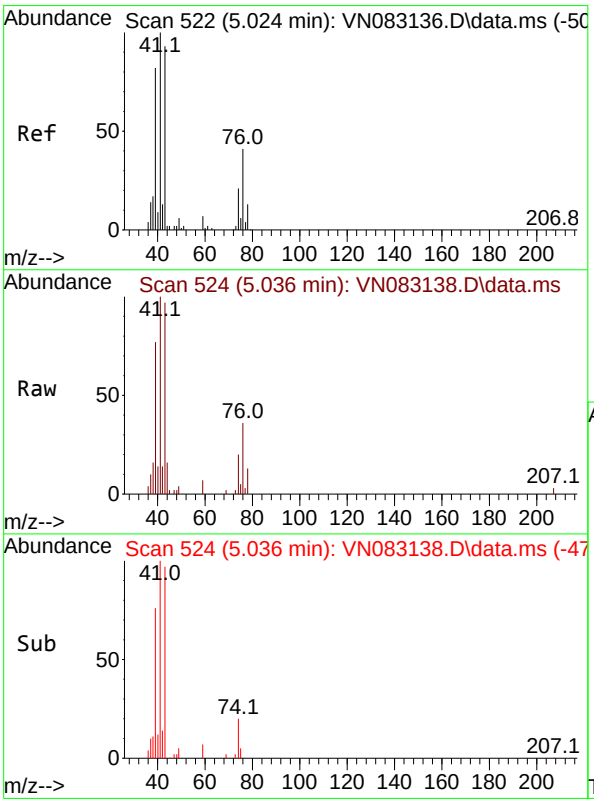
Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

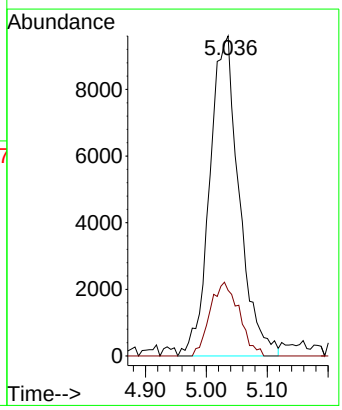
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

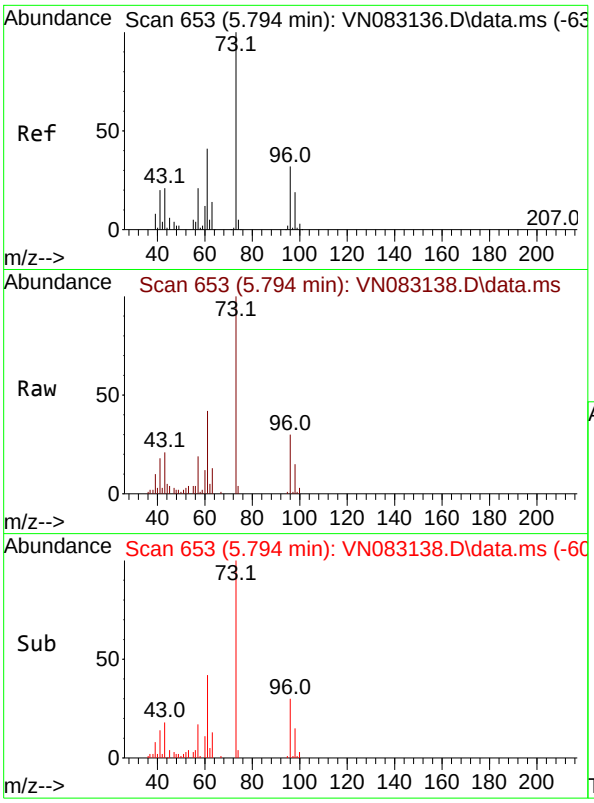


#18
Methyl Acetate
Concen: 10.145 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 32282

Ion	Ratio	Lower	Upper
43	100		
74	22.8	16.3	24.5

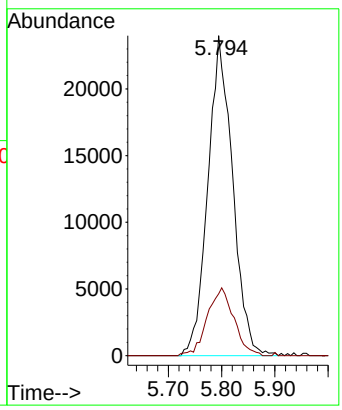




#19
Methyl tert-butyl Ether
Concen: 10.072 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 73 Resp: 7727

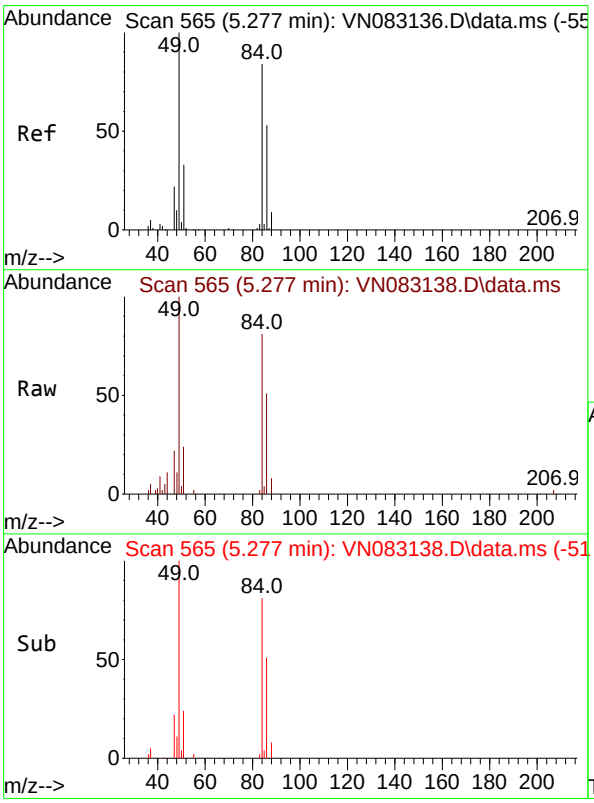
Ion	Ratio	Lower	Upper
73	100		
57	19.3	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

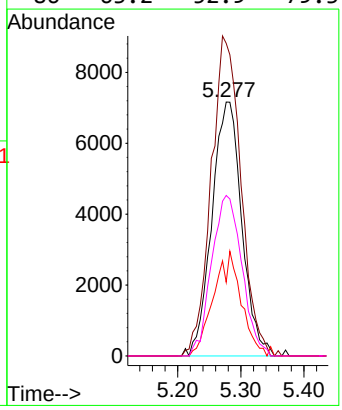
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

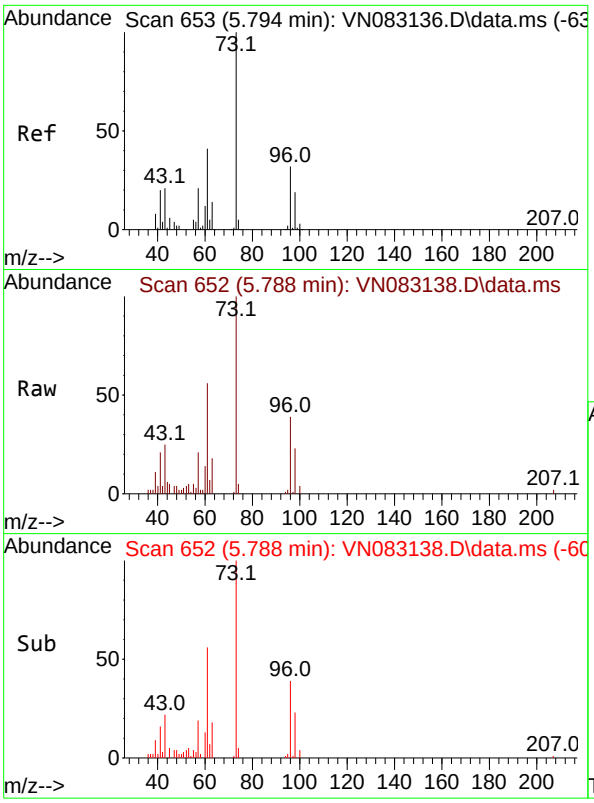


#20
Methylene Chloride
Concen: 9.582 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 84 Resp: 23553

Ion	Ratio	Lower	Upper
84	100		
49	123.1	119.6	179.4
51	29.0	34.8	52.2#
86	63.2	52.9	79.3

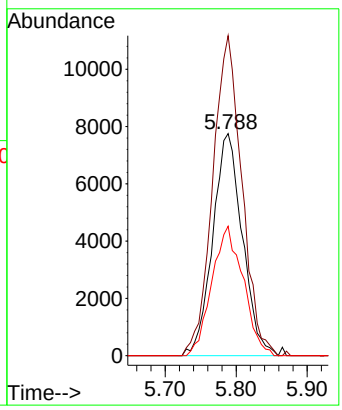




#21
trans-1,2-Dichloroethene
Concen: 10.229 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 96 Resp: 2247

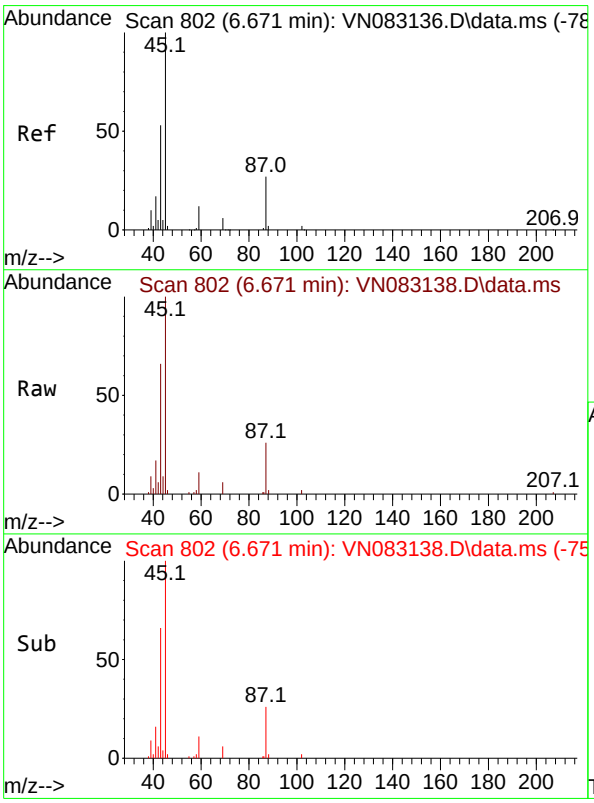
Ion	Ratio	Lower	Upper
96	100		
61	144.0	123.4	185.2
98	58.3	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

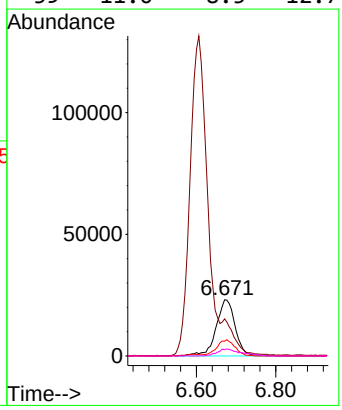
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

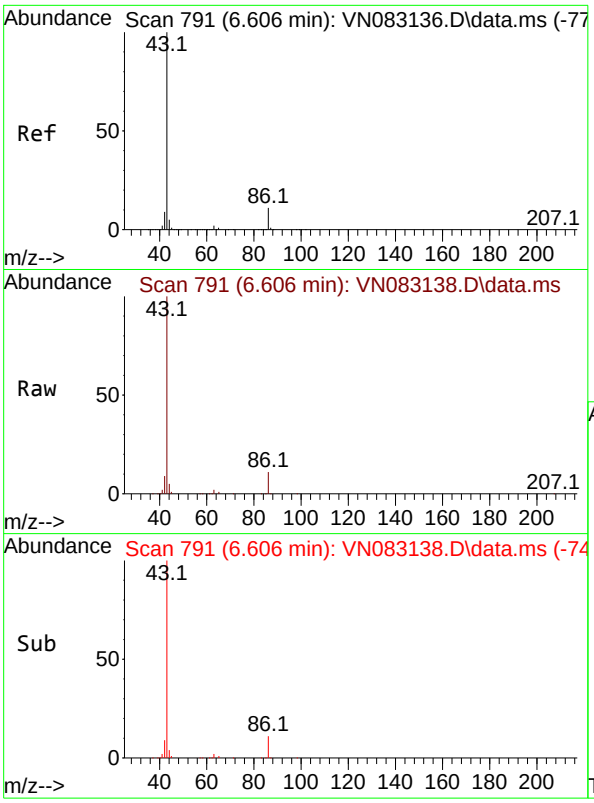


#22
Diisopropyl ether
Concen: 10.204 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 45 Resp: 77046

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





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

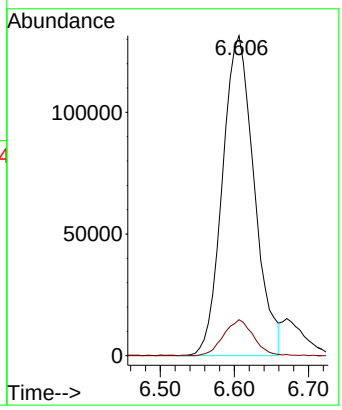
Tgt Ion: 43 Resp: 39115

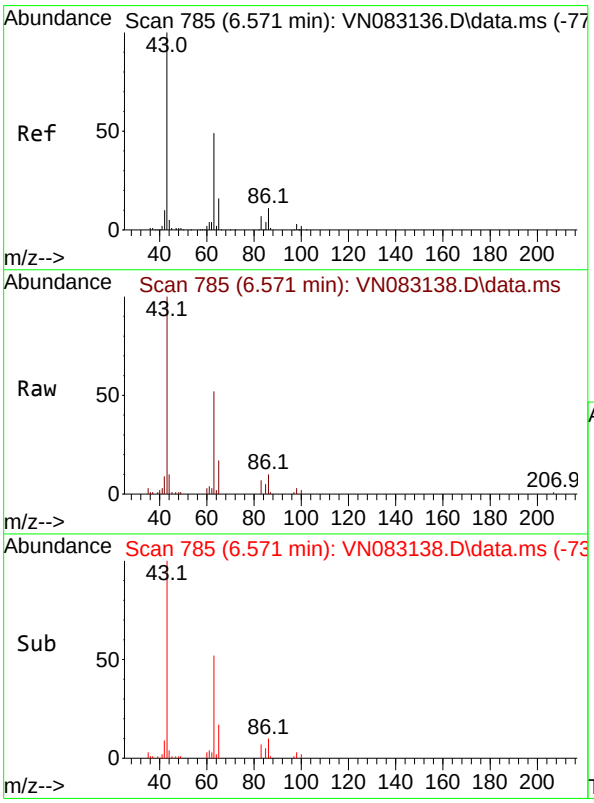
Ion	Ratio	Lower	Upper
43	100		
86	11.2	7.3	10.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

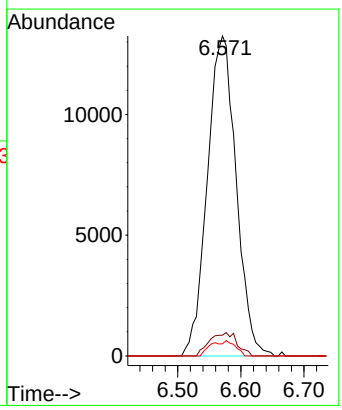


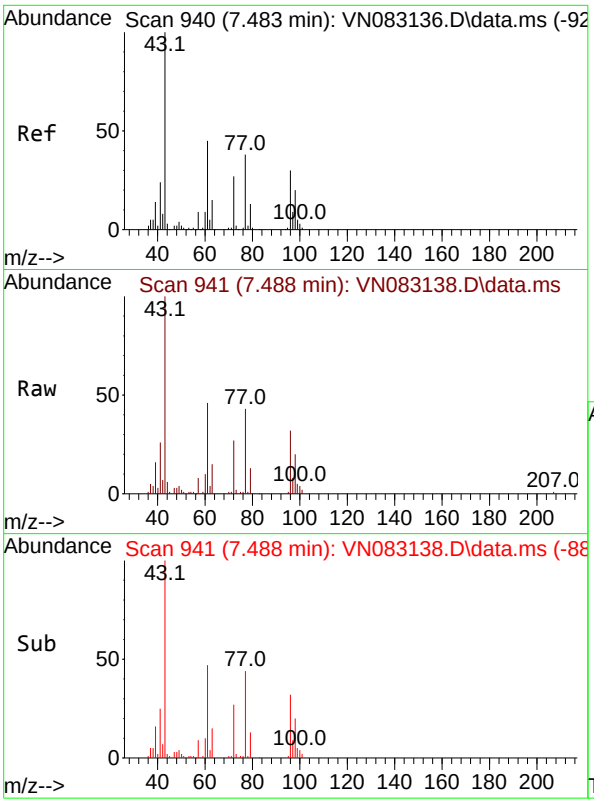


#24
1,1-Dichloroethane
Concen: 10.213 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 63 Resp: 42035

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.9
100	3.8	2.0	6.0





#25
2-Butanone
Concen: 50.278 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

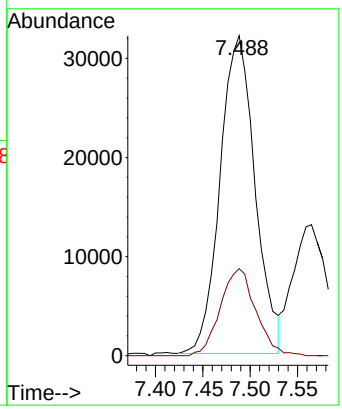
Tgt Ion: 43 Resp: 8245

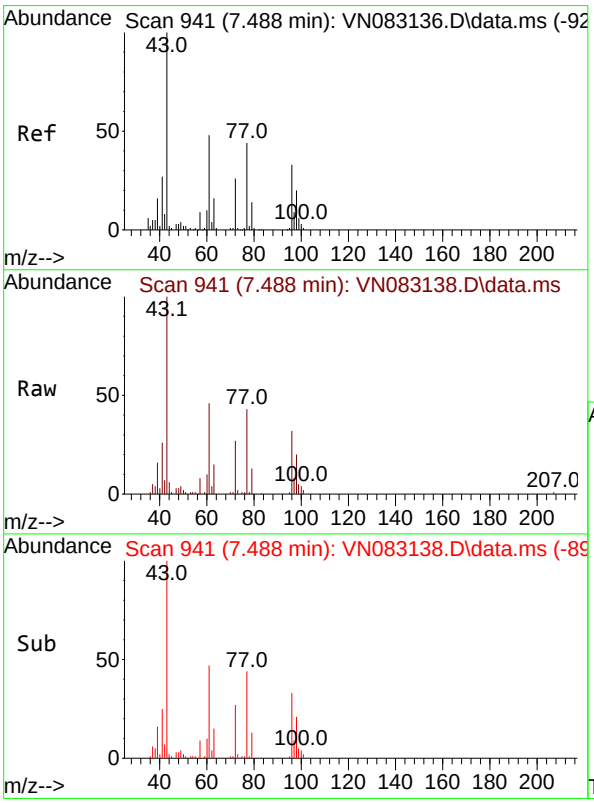
Ion	Ratio	Lower	Upper
43	100		
72	27.4	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

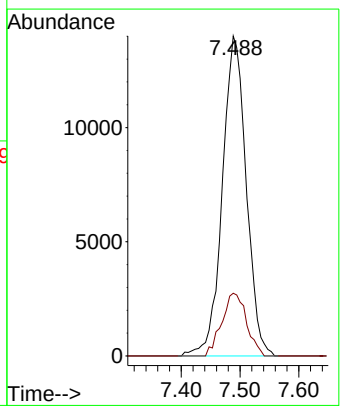


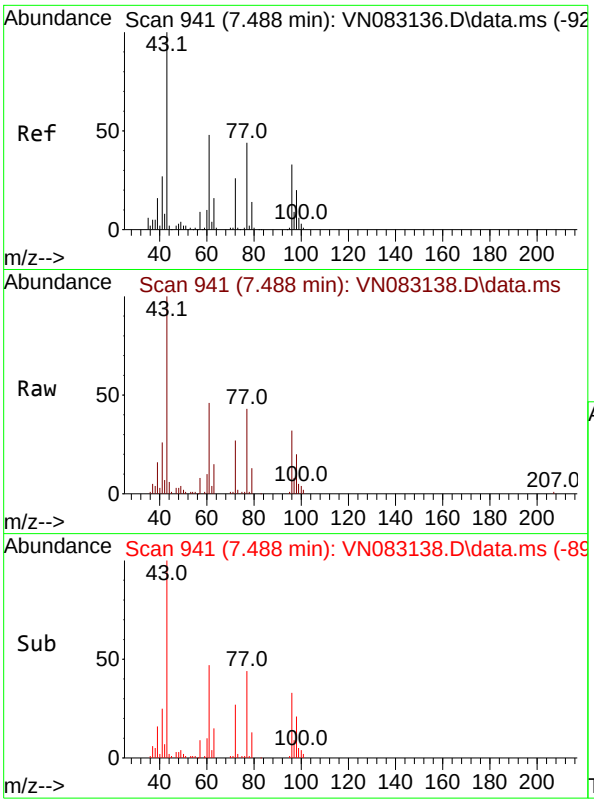


#26
2,2-Dichloropropane
Concen: 10.351 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 77 Resp: 39561

Ion	Ratio	Lower	Upper
77	100		
97	20.2	10.3	30.9

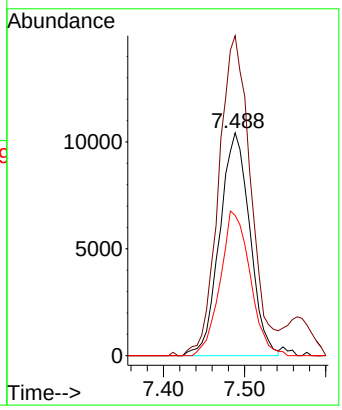




#27
cis-1,2-Dichloroethene
Concen: 10.148 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 96 Resp: 2690

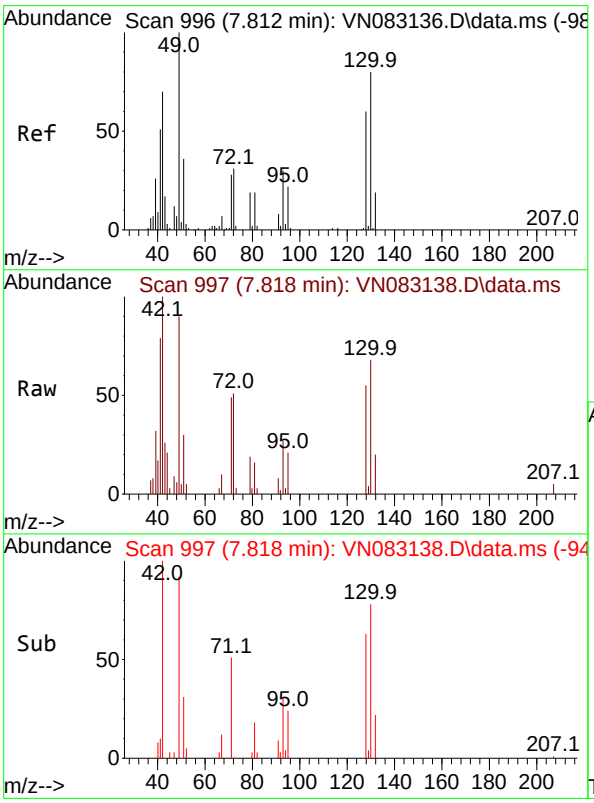
Ion	Ratio	Lower	Upper
96	100		
61	152.1	0.0	329.6
98	64.4	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

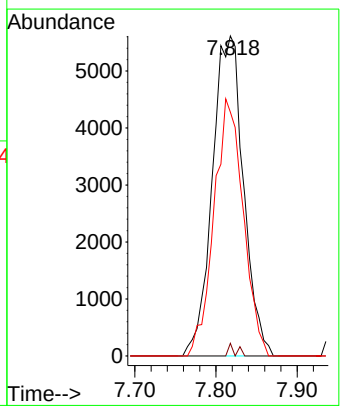
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

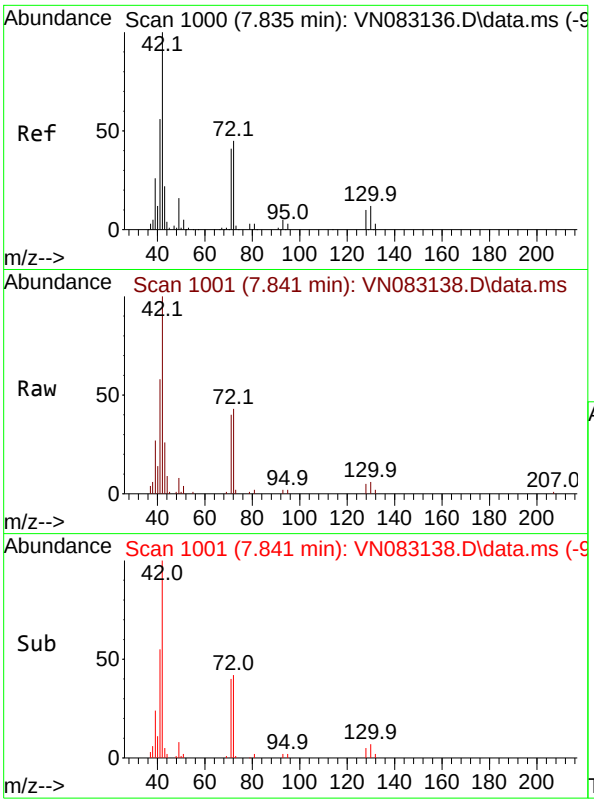


#28
Bromochloromethane
Concen: 8.916 ug/l
RT: 7.818 min Scan# 997
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 49 Resp: 14997

Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.8
130	75.4	50.5	75.7

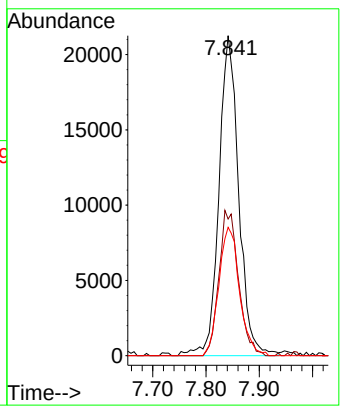




#29
Tetrahydrofuran
Concen: 51.708 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 42 Resp: 5481

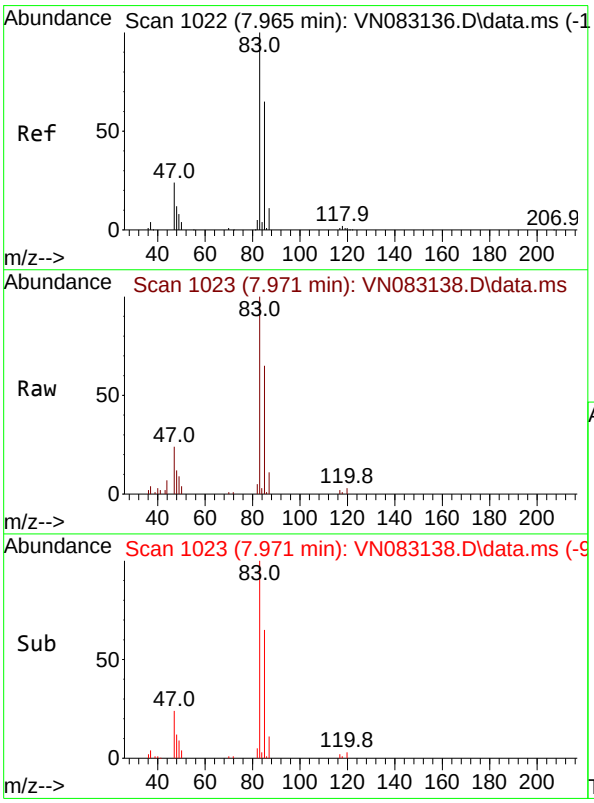
Ion	Ratio	Lower	Upper
42	100		
72	44.9	30.0	45.0
71	41.8	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

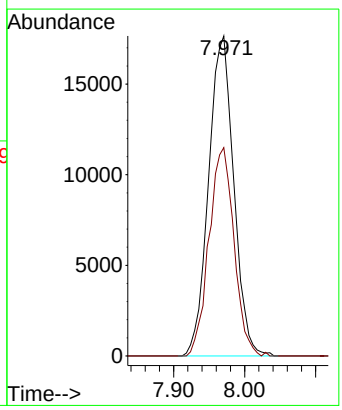
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

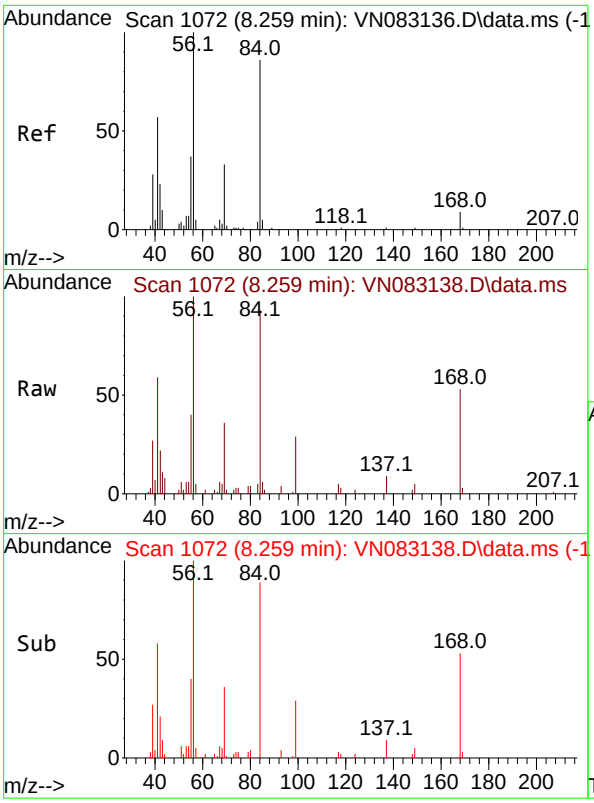


#30
Chloroform
Concen: 10.155 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 83 Resp: 43421

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.9	76.3

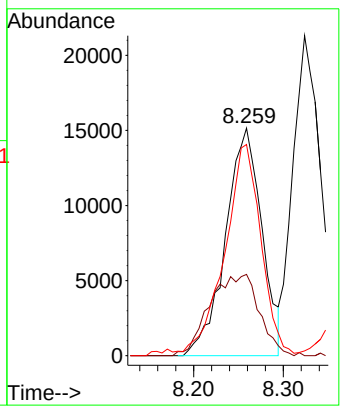




#31
Cyclohexane
Concen: 10.523 ug/l
RT: 8.259 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 56 Resp: 4256

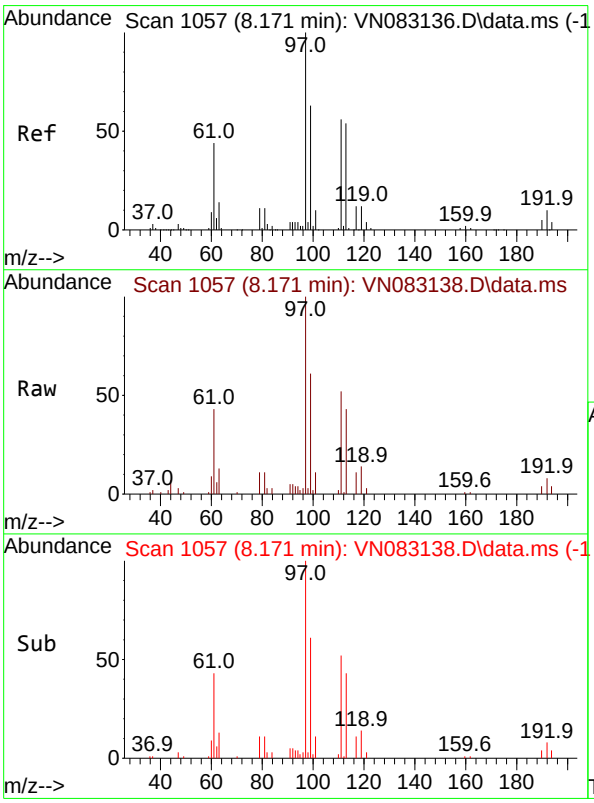
Ion	Ratio	Lower	Upper
56	100		
69	34.0	24.5	36.7
84	90.8	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

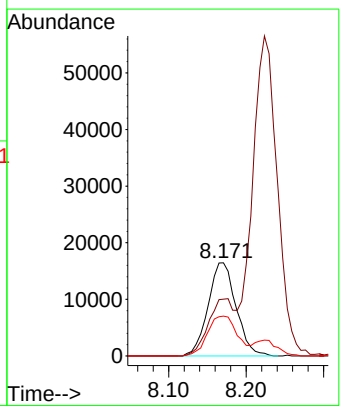
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

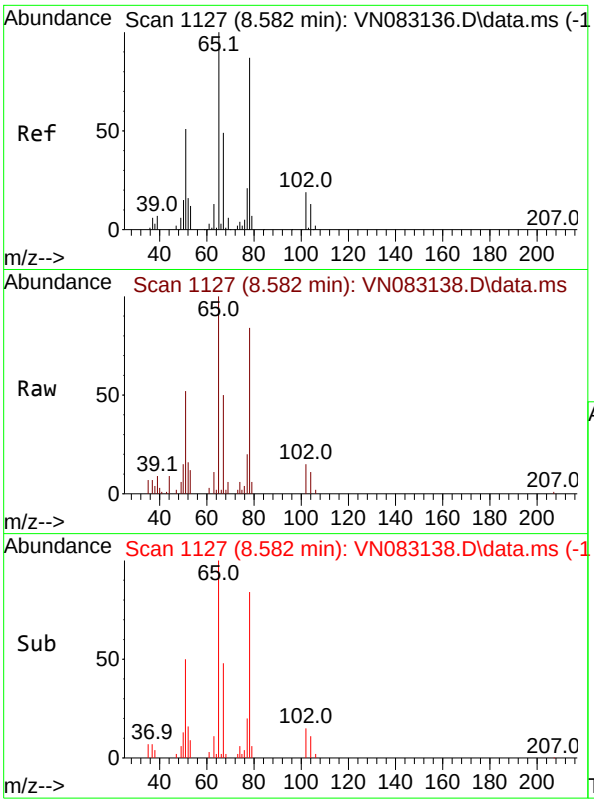


#32
1,1,1-Trichloroethane
Concen: 10.191 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 97 Resp: 41247

Ion	Ratio	Lower	Upper
97	100		
99	59.5	52.0	78.0
61	46.2	42.1	63.1

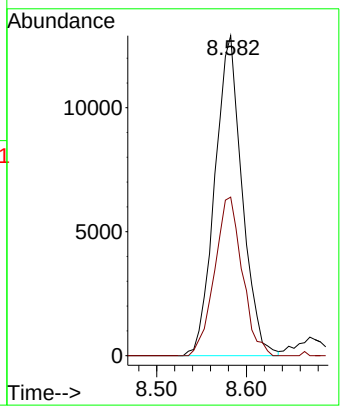




#33
1,2-Dichloroethane-d4
Concen: 9.974 ug/l
RT: 8.582 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 65 Resp: 2722

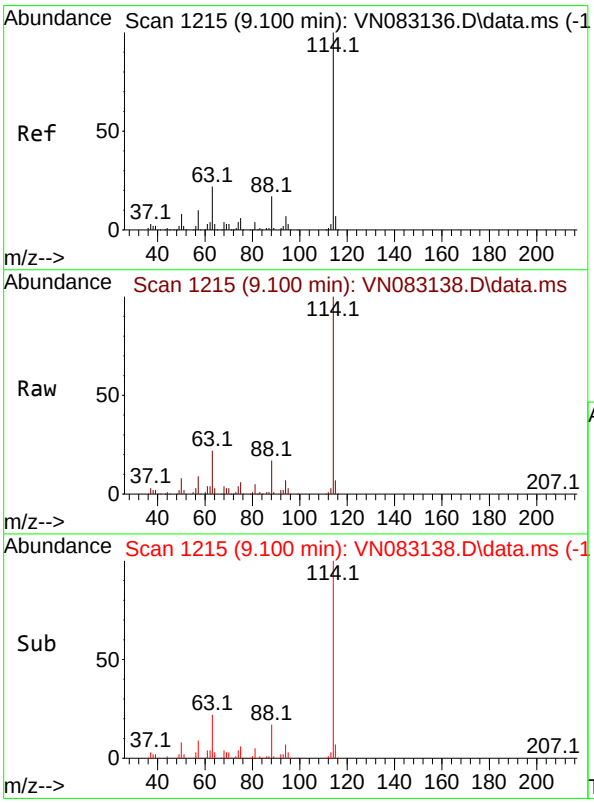
Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

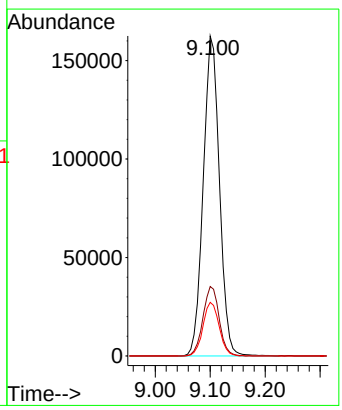
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

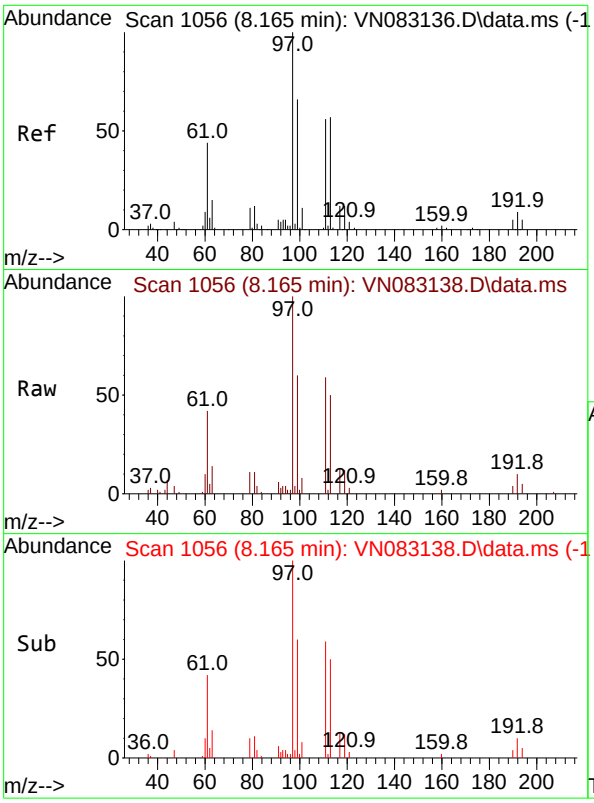


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:114 Resp: 332105

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	44.6
88	16.8	0.0	31.4

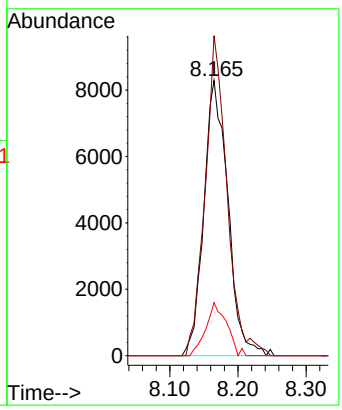




#35
Dibromofluoromethane
Concen: 9.832 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:113 Resp: 2038

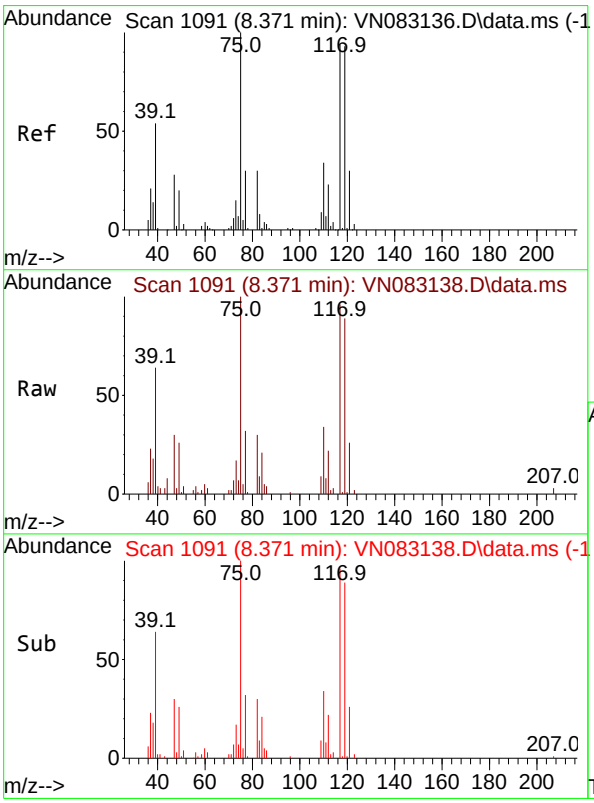
Ion	Ratio	Lower	Upper
113	100		
111	105.9	82.4	123.6
192	16.7	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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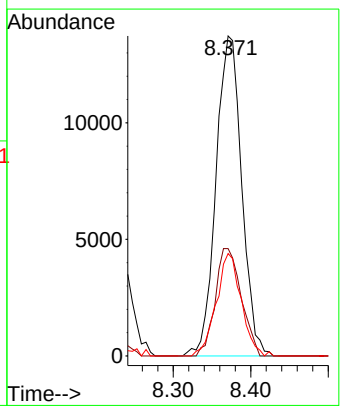
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

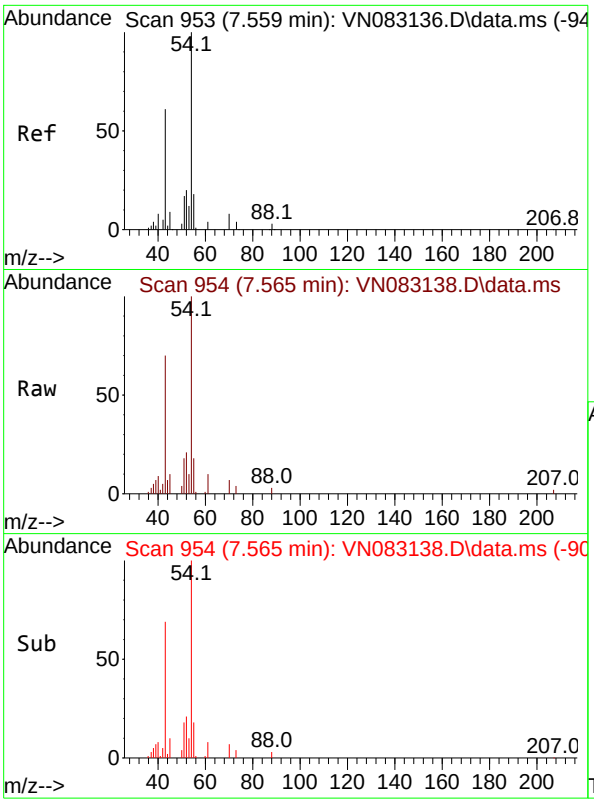


#36
1,1-Dichloropropene
Concen: 10.103 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 31681

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.3	48.9
77	31.1	24.6	37.0

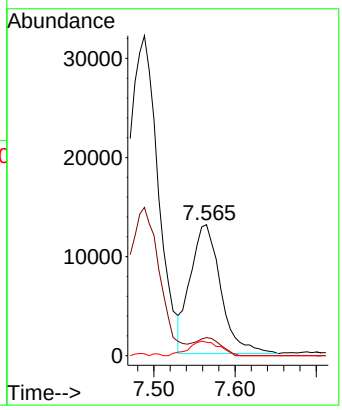




#37
Ethyl Acetate
Concen: 9.685 ug/l
RT: 7.565 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 3400

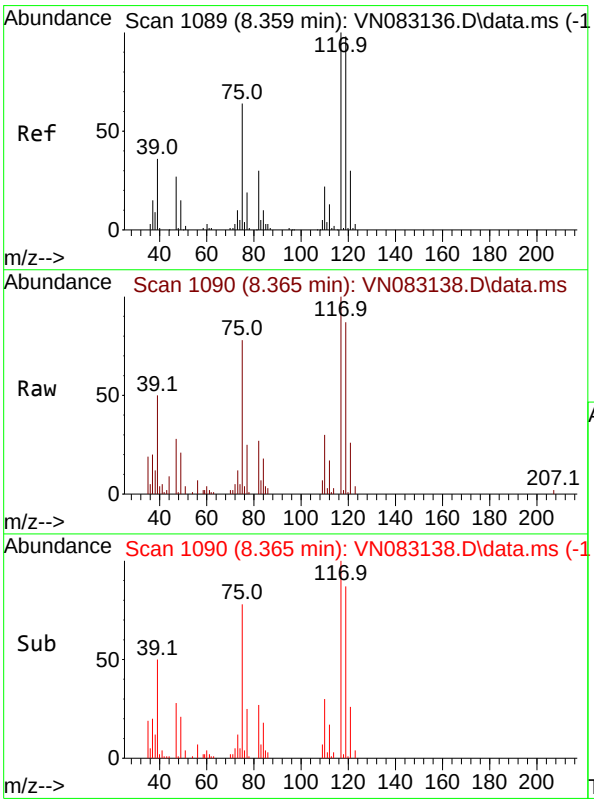
Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.3	13.9
70	11.4	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

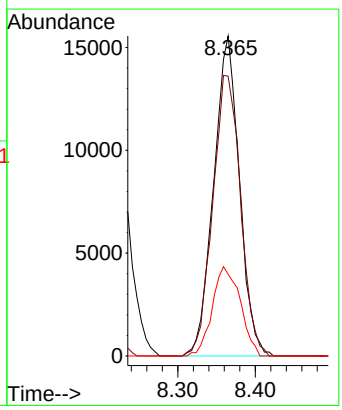
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

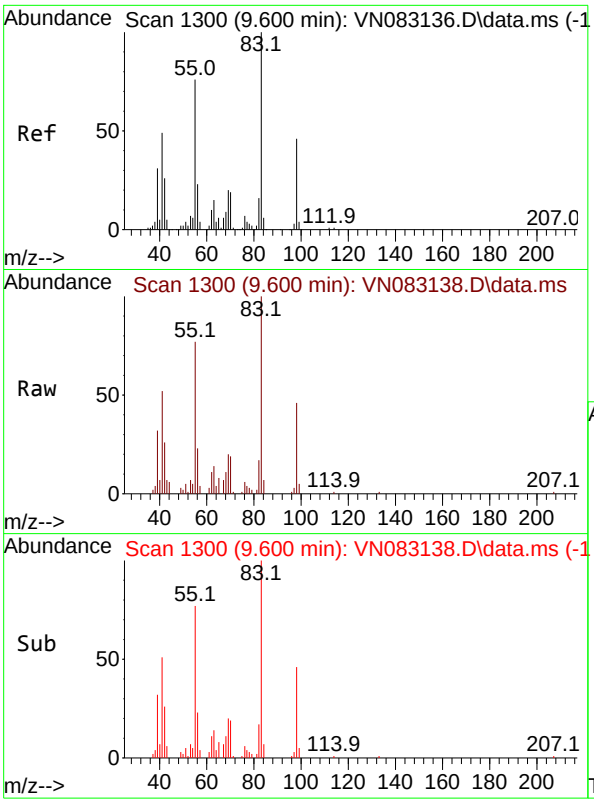


#38
Carbon Tetrachloride
Concen: 10.179 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:117 Resp: 35950

Ion	Ratio	Lower	Upper
117	100		
119	87.5	74.9	112.3
121	25.6	24.3	36.5





#39
Methylcyclohexane
Concen: 10.058 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

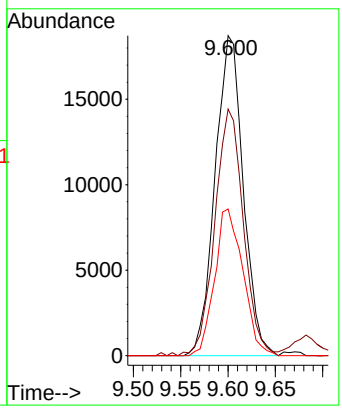
Tgt Ion: 83 Resp: 3873

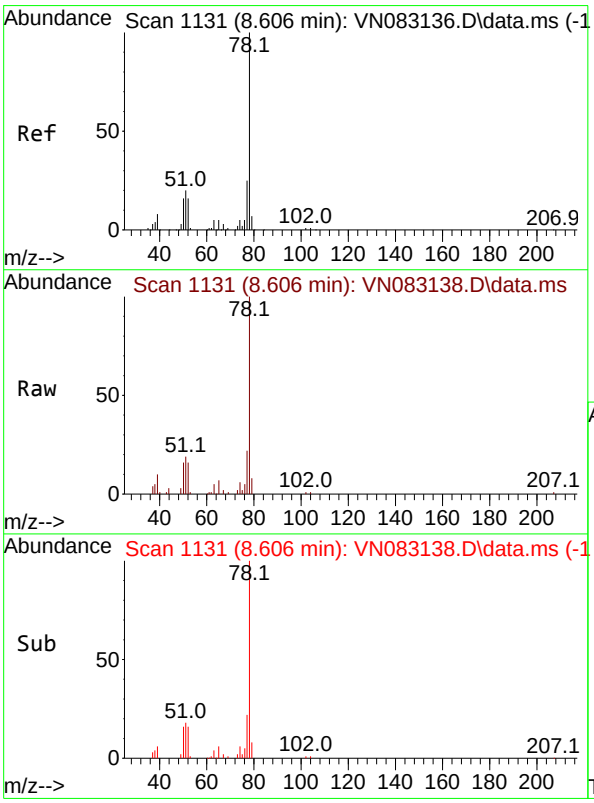
Ion	Ratio	Lower	Upper
83	100		
55	77.1	66.4	99.6
98	45.9	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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

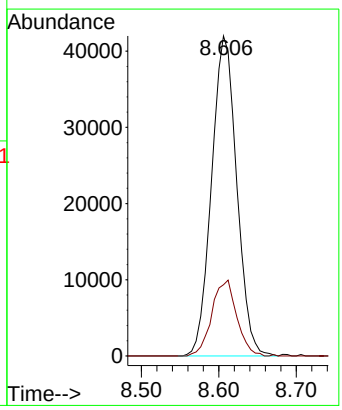


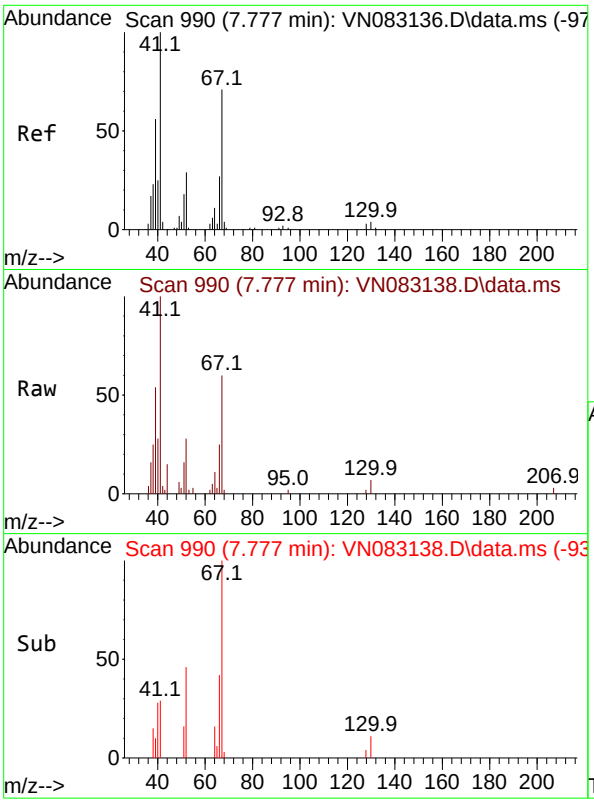


#40
Benzene
Concen: 10.157 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 78 Resp: 94885

Ion	Ratio	Lower	Upper
78	100		
77	22.2	19.0	28.4

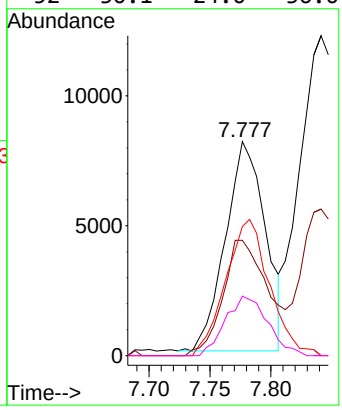




#41
Methacrylonitrile
Concen: 9.213 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 41 Resp: 1839

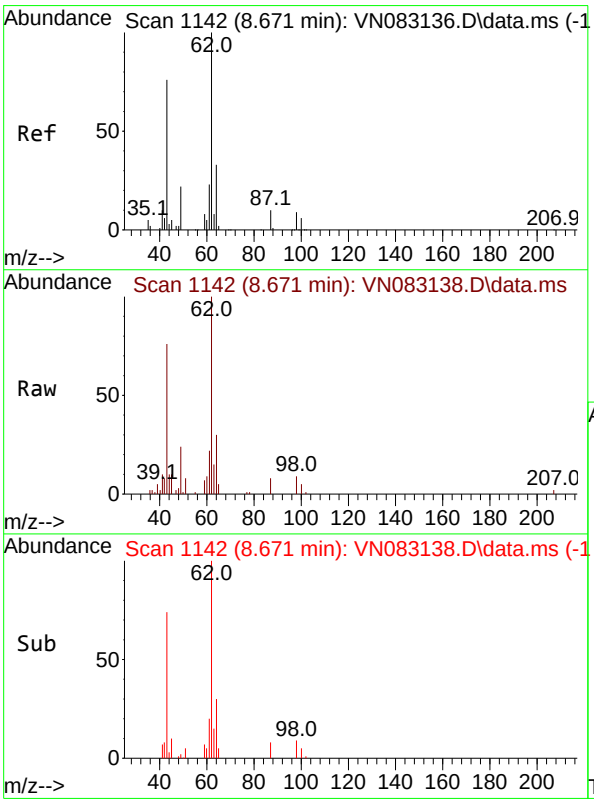
Ion	Ratio	Lower	Upper
41	100		
39	62.6	45.5	68.3
67	71.3	50.5	75.7
52	30.1	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

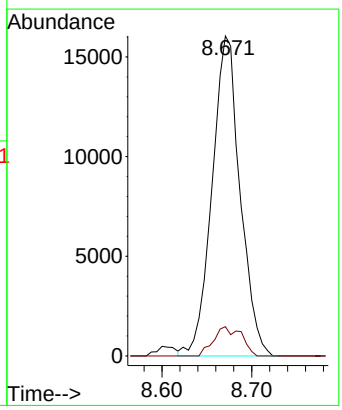
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

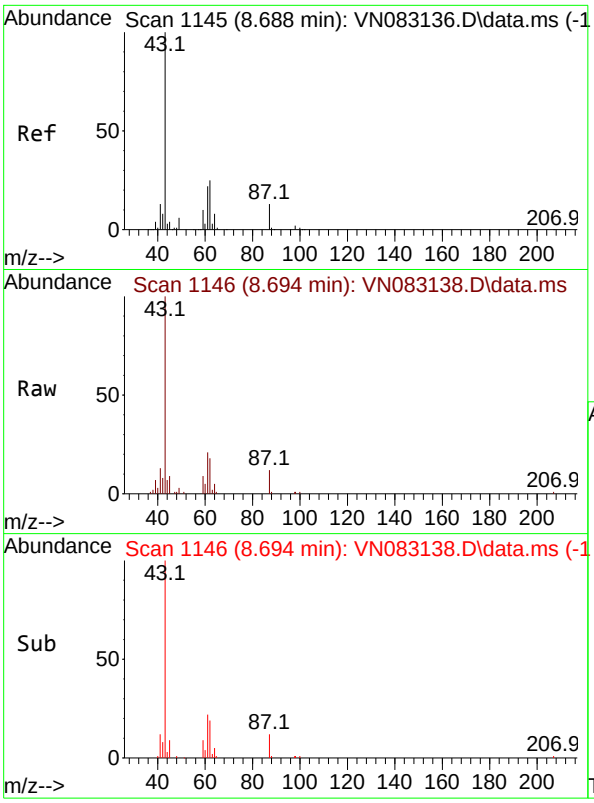


#42
1,2-Dichloroethane
Concen: 10.234 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 62 Resp: 34826

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8





#43
Isopropyl Acetate
Concen: 10.170 ug/l
RT: 8.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

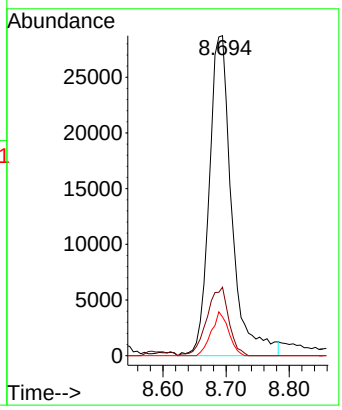
Tgt Ion: 43 Resp: 7142

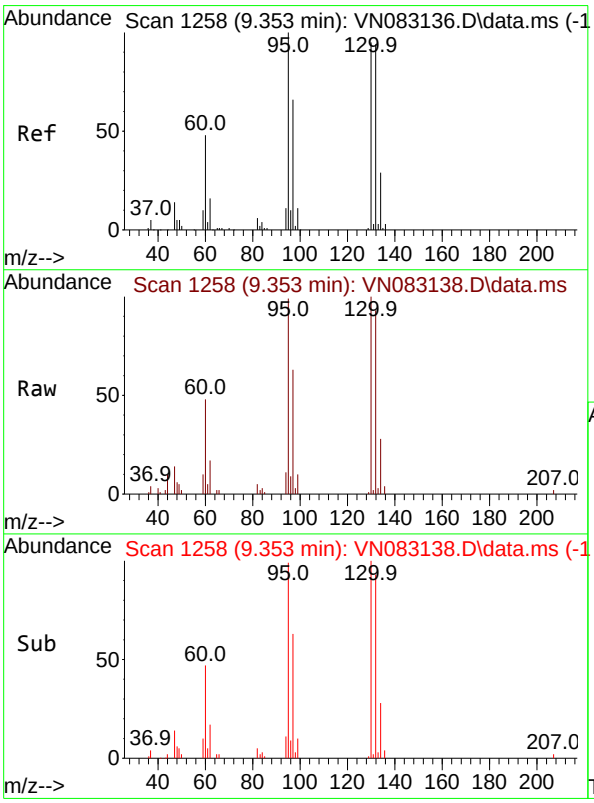
Ion	Ratio	Lower	Upper
43	100		
61	20.7	17.8	26.6
87	10.4	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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

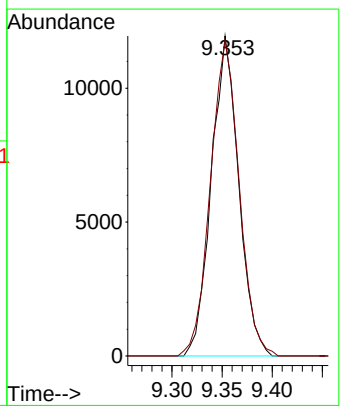


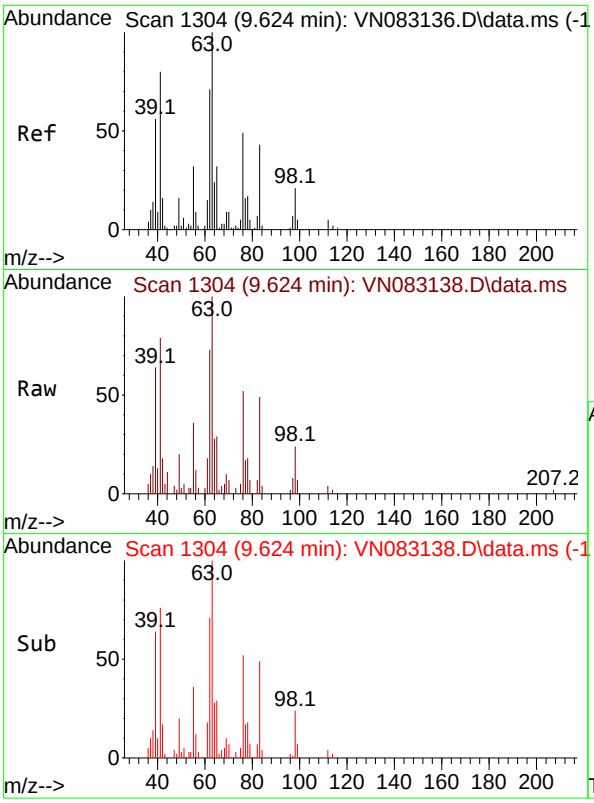


#44
Trichloroethene
Concen: 10.195 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:130 Resp: 22669

Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	197.8

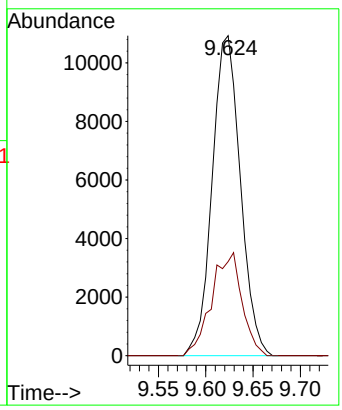




#45
1,2-Dichloropropane
Concen: 10.211 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 63 Resp: 2264

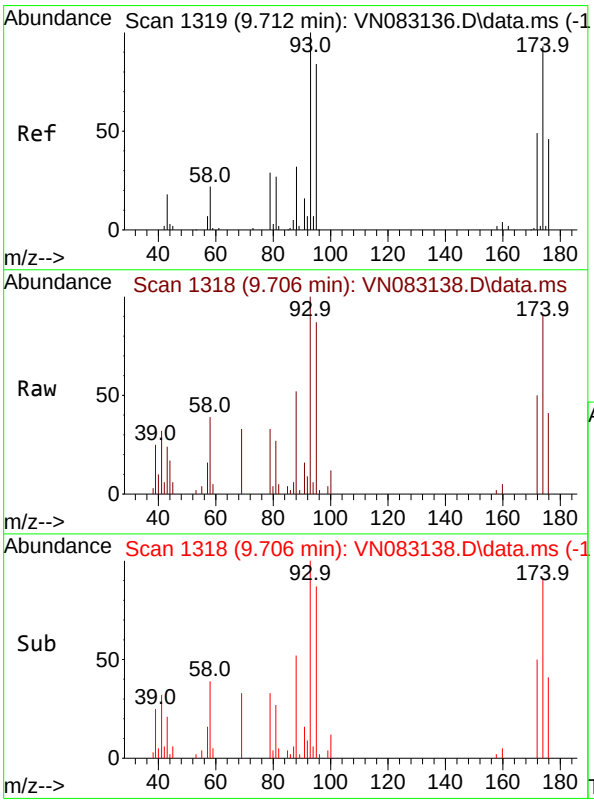
Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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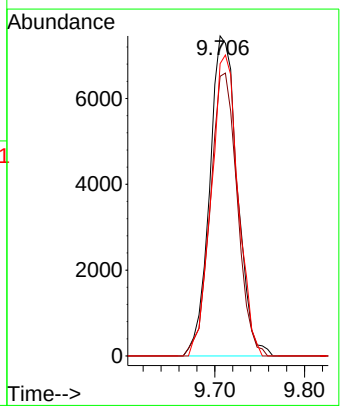
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

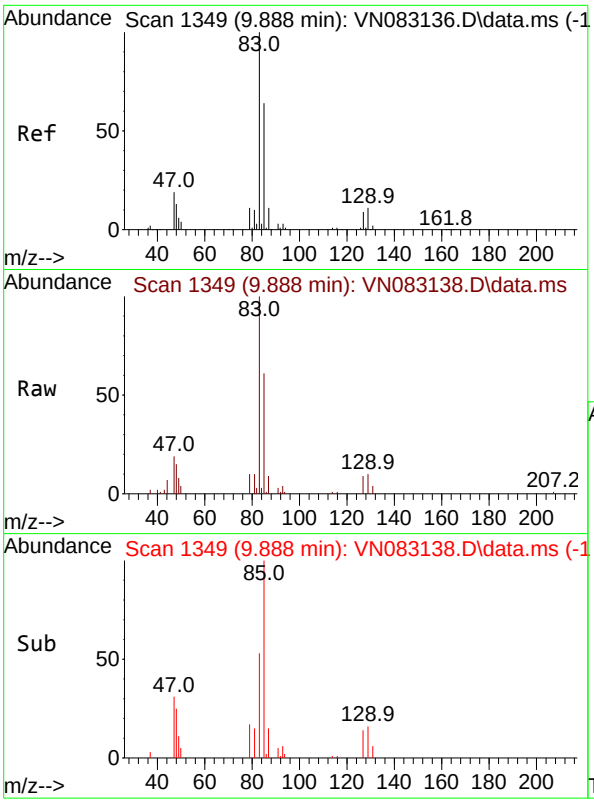


#46
Dibromomethane
Concen: 10.041 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 93 Resp: 15937

Ion	Ratio	Lower	Upper
93	100		
95	86.3	65.8	98.6
174	91.4	71.7	107.5

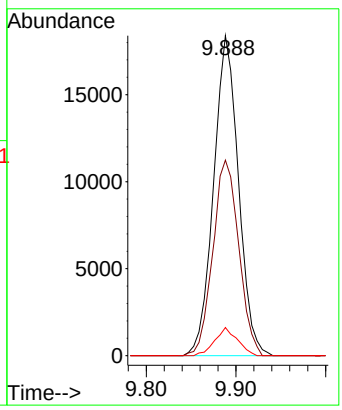




#47
Bromodichloromethane
Concen: 9.930 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 83 Resp: 3538

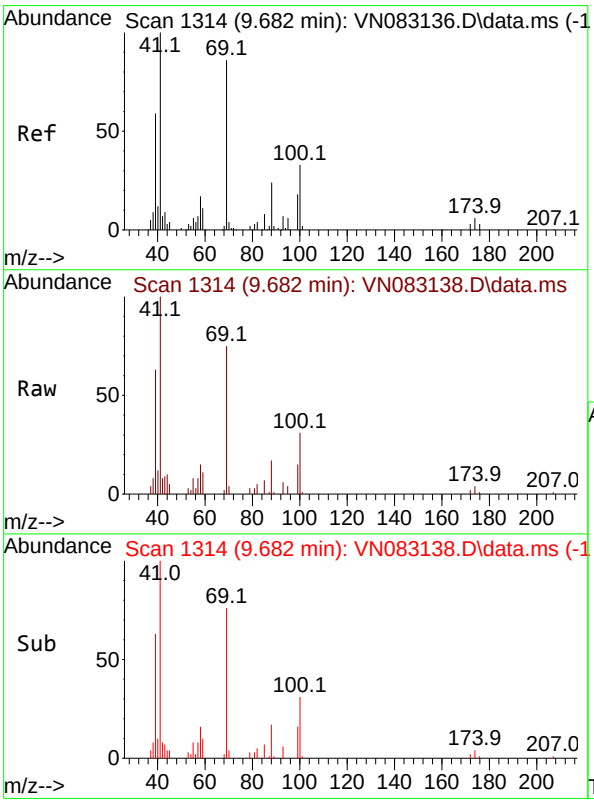
Ion	Ratio	Lower	Upper
83	100		
85	61.1	51.1	76.7
127	8.8	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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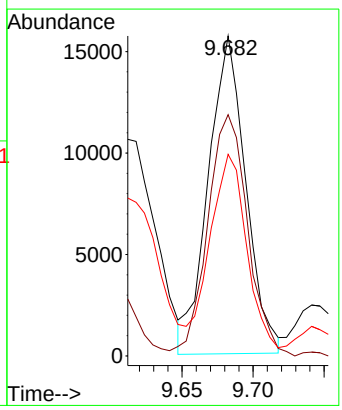
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

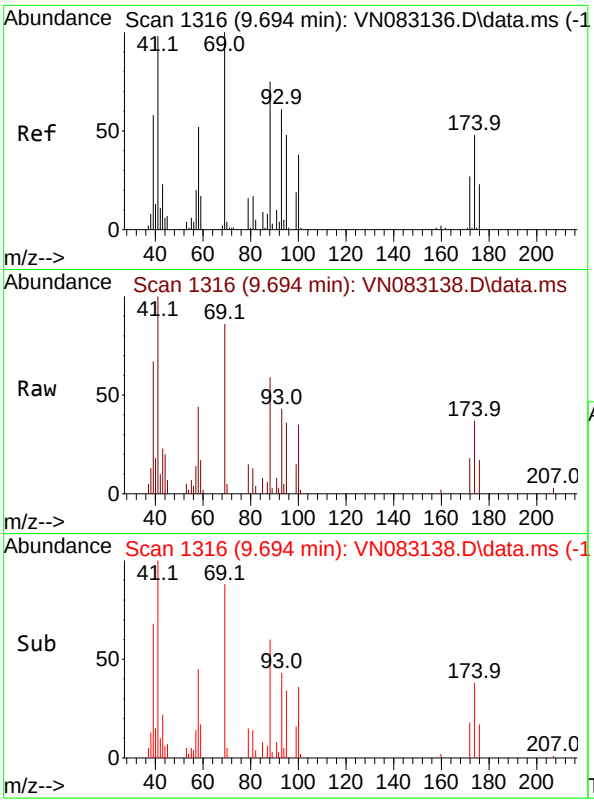


#48
Methyl methacrylate
Concen: 9.891 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 41 Resp: 28711

Ion	Ratio	Lower	Upper
41	100		
69	81.0	56.3	84.5
39	63.6	50.3	75.5





#49
1,4-Dioxane
Concen: 201.364 ug/l
RT: 9.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

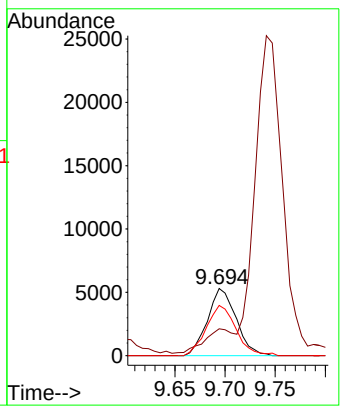
Tgt Ion: 88 Resp: 1054

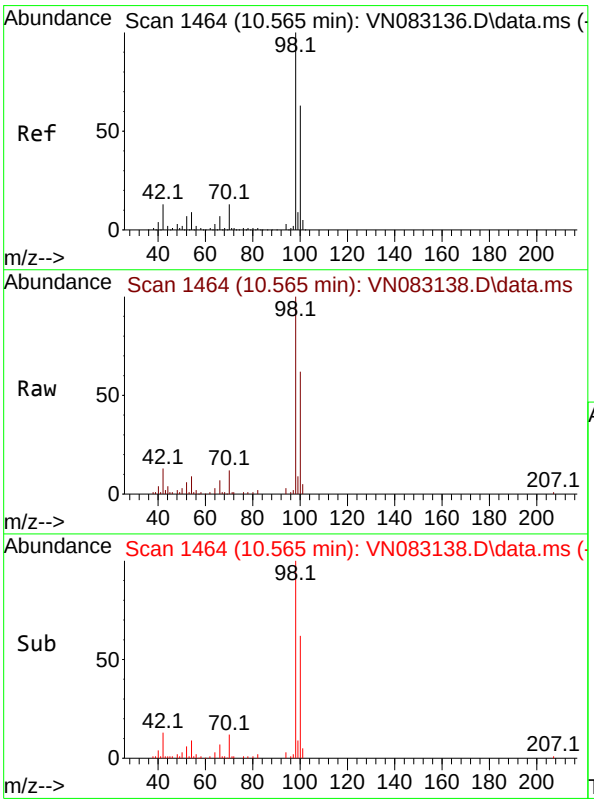
Ion	Ratio	Lower	Upper
88	100		
43	39.2	27.8	41.8
58	77.8	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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

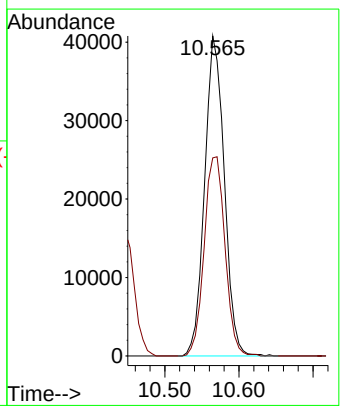


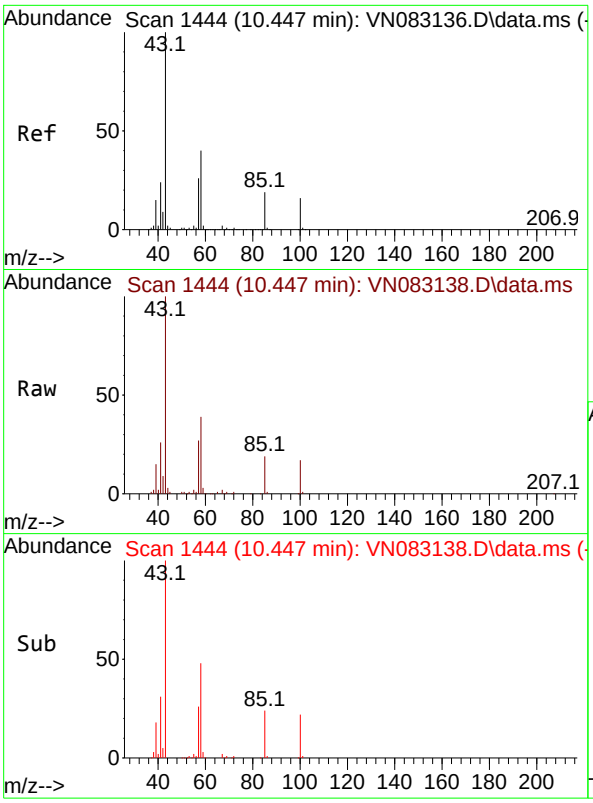


#50
Toluene-d8
Concen: 9.733 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 98 Resp: 75261

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 51.587 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

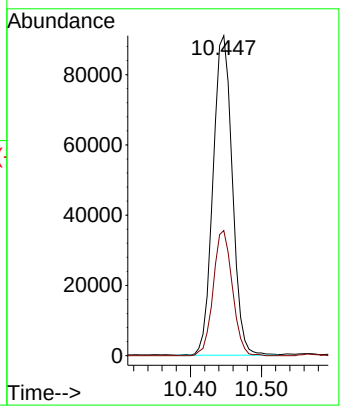
Tgt Ion: 43 Resp: 17127

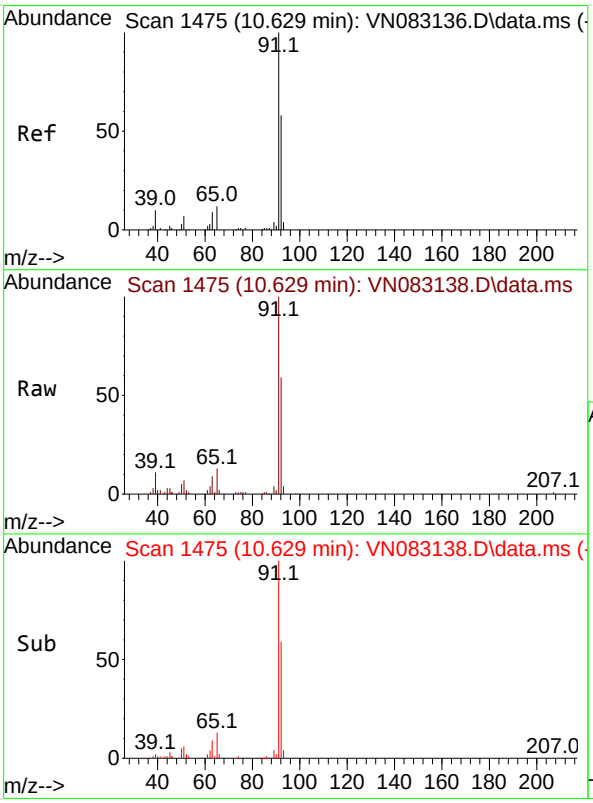
Ion	Ratio	Lower	Upper
43	100		
58	38.8	28.2	42.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

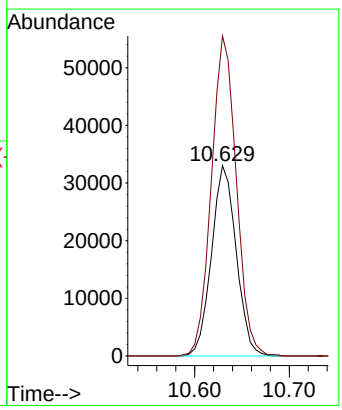


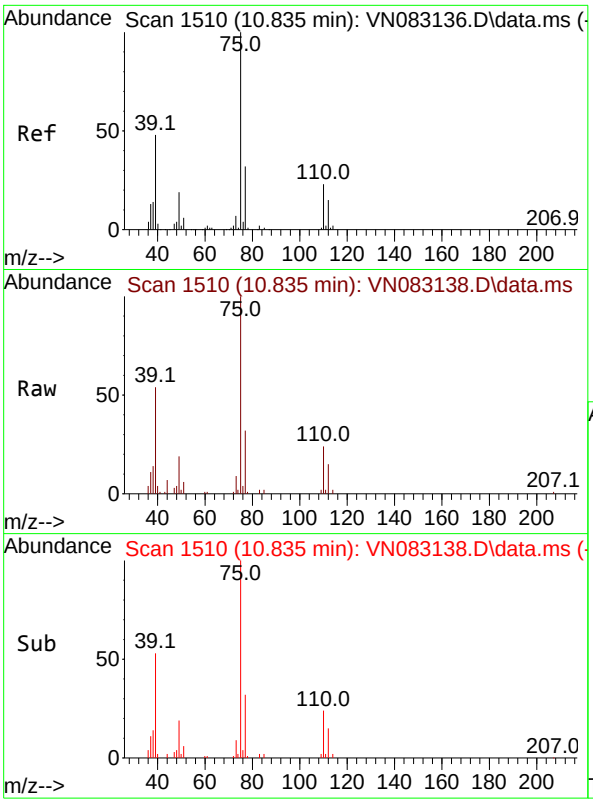


#52
Toluene
Concen: 10.129 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 92 Resp: 59784

Ion	Ratio	Lower	Upper
92	100		
91	170.0	139.4	209.0

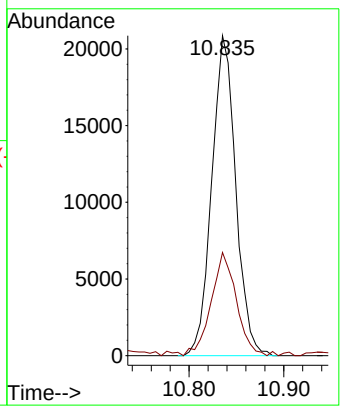




#53
t-1,3-Dichloropropene
Concen: 10.017 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 3667

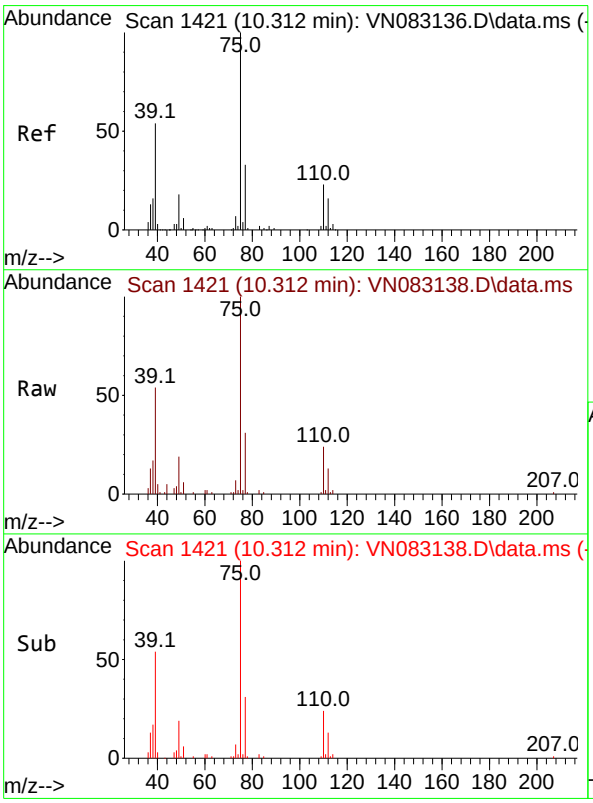
Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.7	38.5



Instrument :
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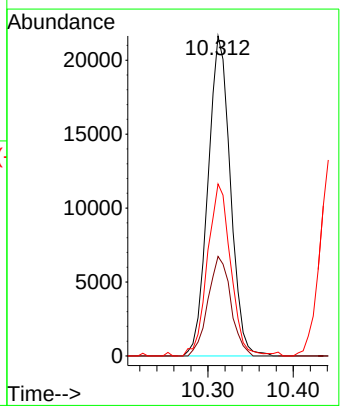
Reviewed By :John Carlone 08/08/2024
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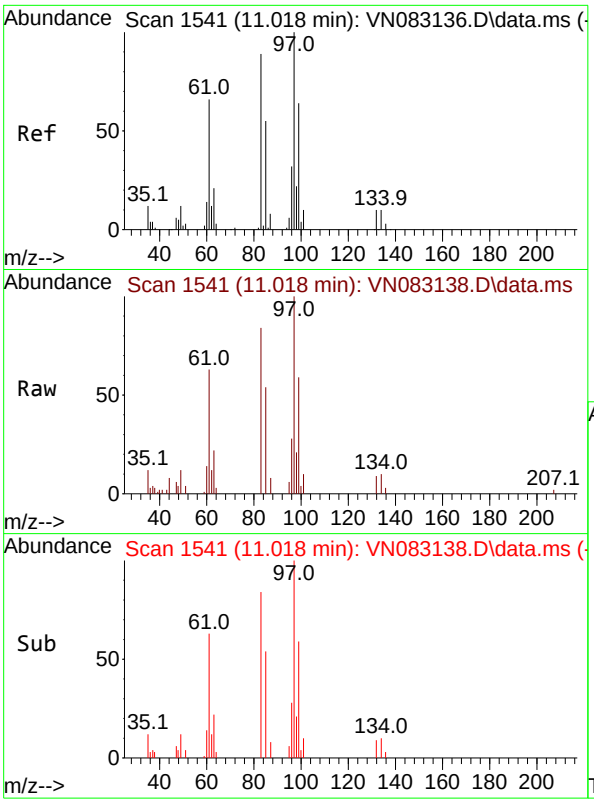


#54
cis-1,3-Dichloropropene
Concen: 10.145 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 39503

Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.3	36.5
39	53.8	50.5	75.7

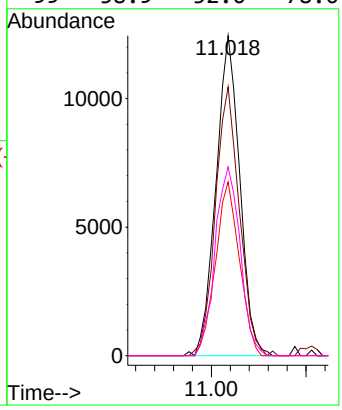




#55
1,1,2-Trichloroethane
Concen: 10.274 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 97 Resp: 2173

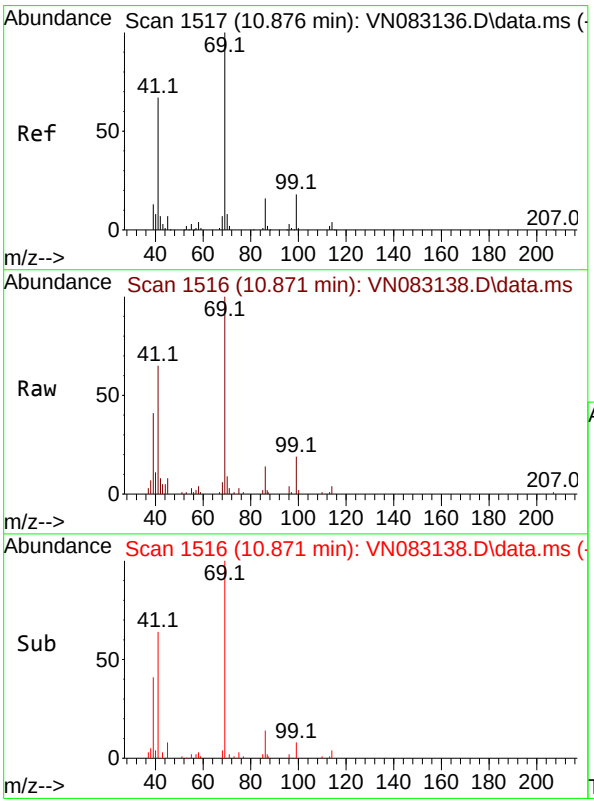
Ion	Ratio	Lower	Upper
97	100		
83	84.0	71.4	107.0
85	54.3	45.8	68.6
99	58.9	52.0	78.0



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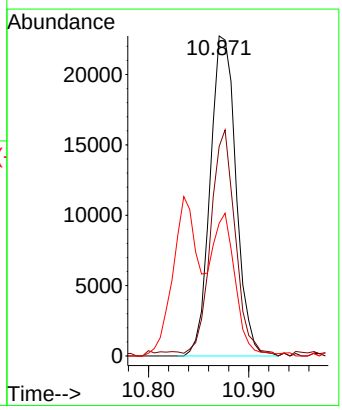
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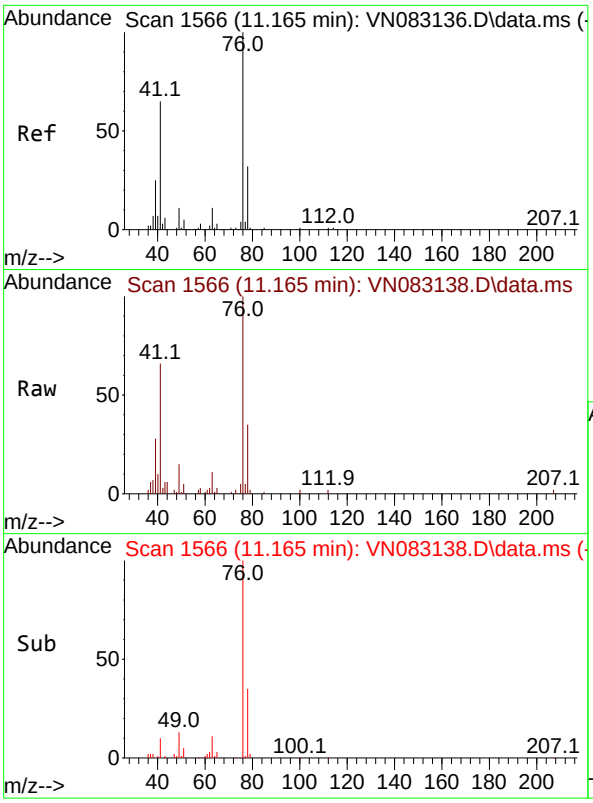


#56
Ethyl methacrylate
Concen: 10.201 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 69 Resp: 40676

Ion	Ratio	Lower	Upper
69	100		
41	67.9	63.4	95.2
39	36.8	37.4	56.0#

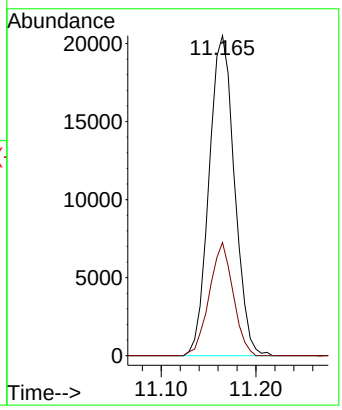




#57
1,3-Dichloropropane
Concen: 10.132 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 76 Resp: 3820

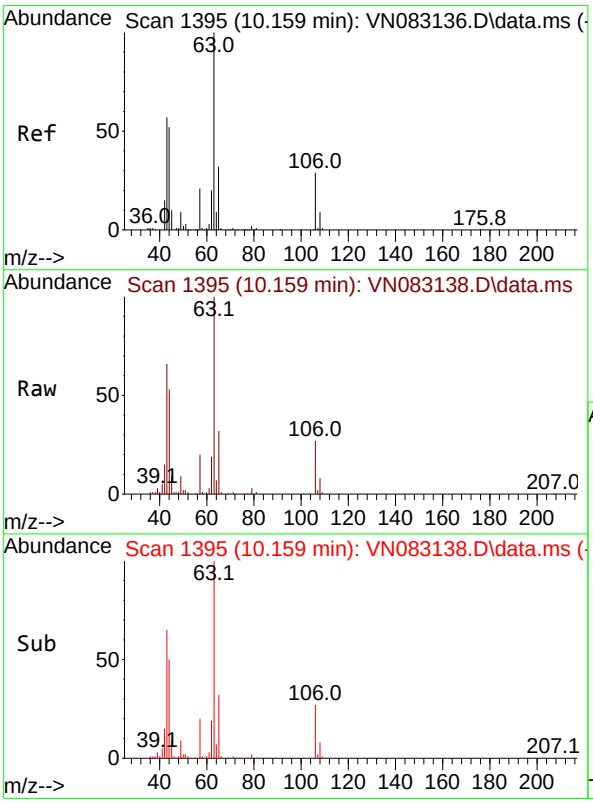
Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.6	38.4



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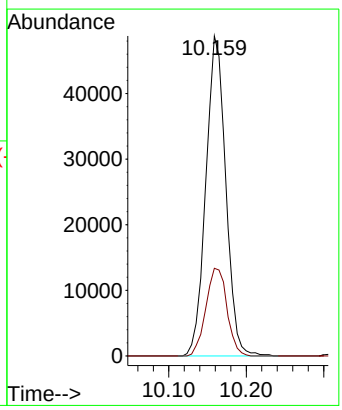
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

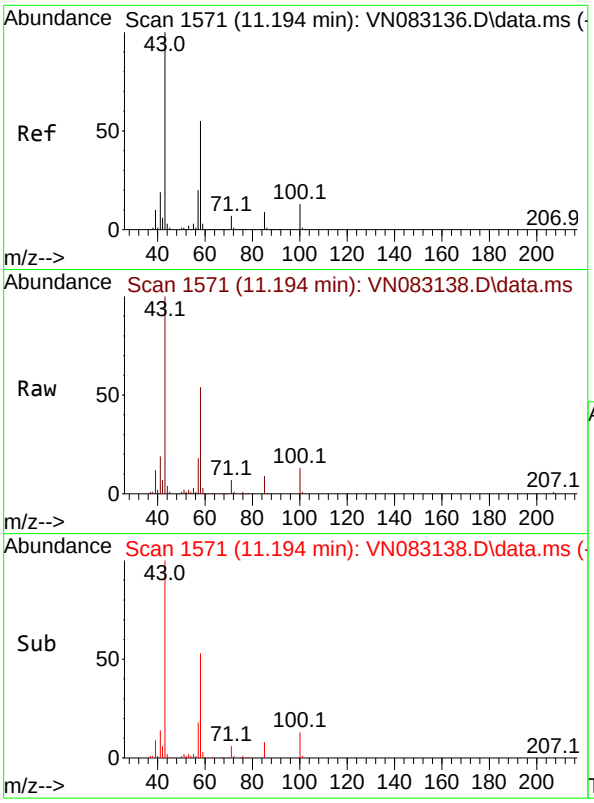


#58
2-Chloroethyl Vinyl ether
Concen: 51.698 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 63 Resp: 87140

Ion	Ratio	Lower	Upper
63	100		
106	28.9	21.4	32.0





#59
2-Hexanone
Concen: 50.312 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

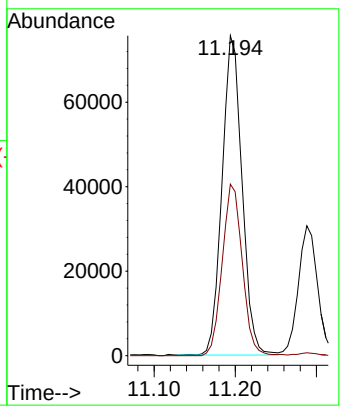
Tgt Ion: 43 Resp: 12923

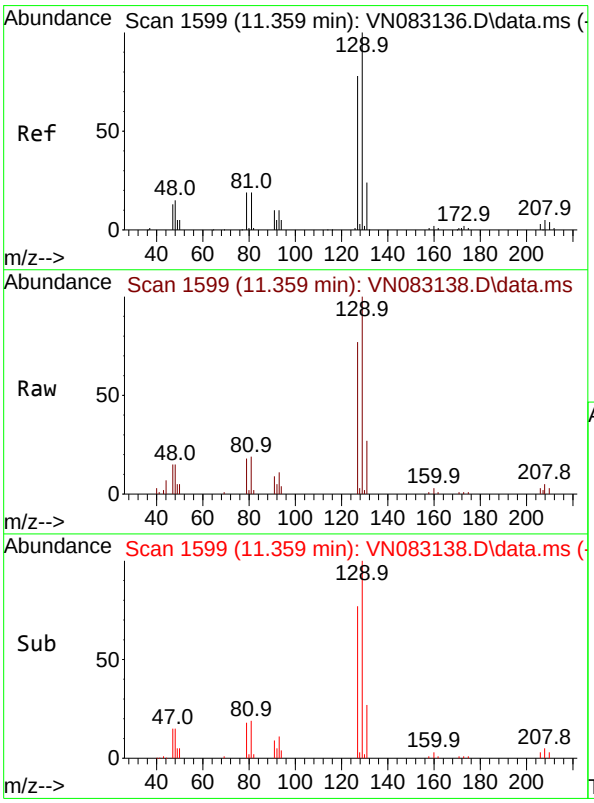
Ion	Ratio	Lower	Upper
43	100		
58	54.0	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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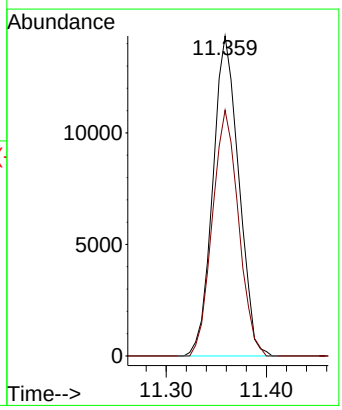


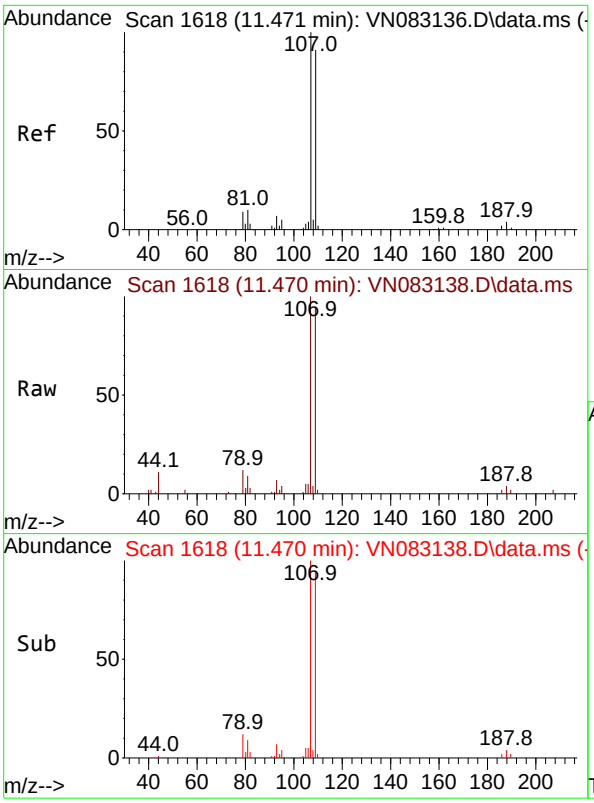


#60
Dibromochloromethane
Concen: 10.088 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:129 Resp: 25798

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.2	117.6





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

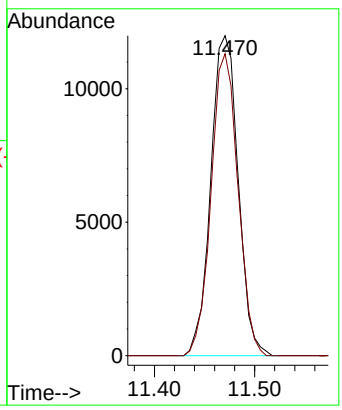
Tgt Ion:107 Resp: 2270

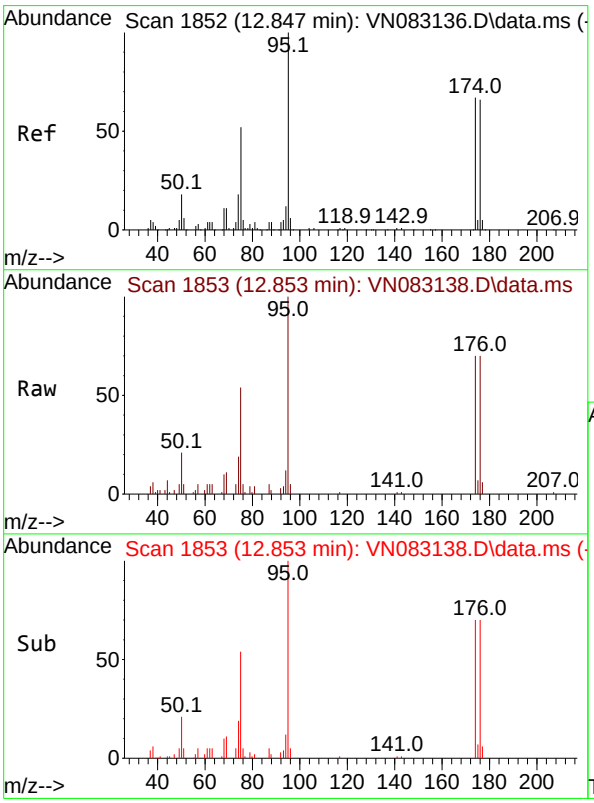
Ion	Ratio	Lower	Upper
107	100		
109	92.7	73.7	110.5

Instrument :
MSVOA_N
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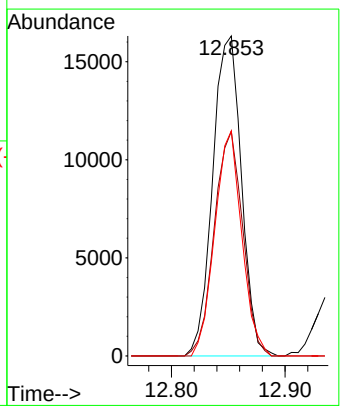


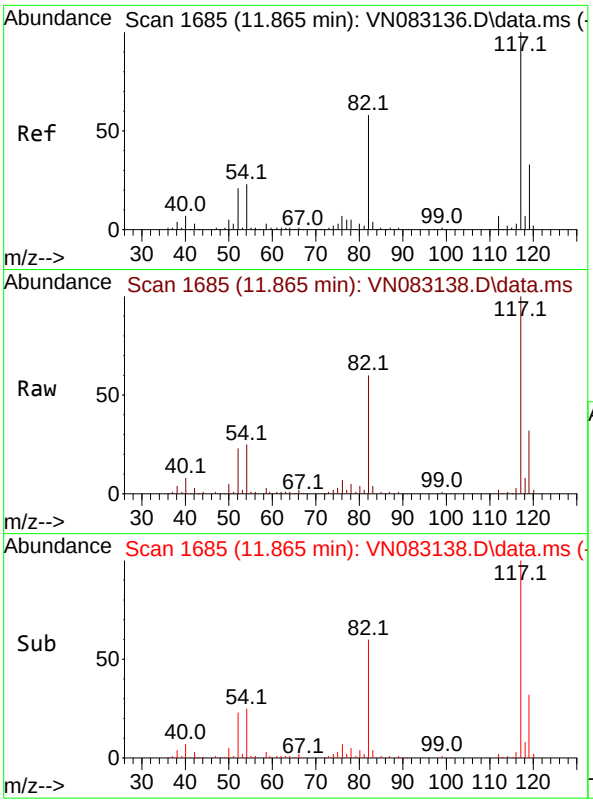


#62
4-Bromofluorobenzene
Concen: 9.517 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 95 Resp: 28691

Ion	Ratio	Lower	Upper
95	100		
174	69.5	0.0	159.2
176	66.2	0.0	147.6

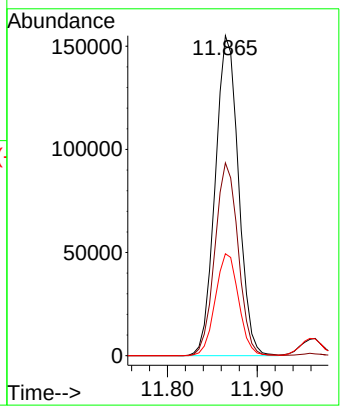




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:117 Resp: 27940

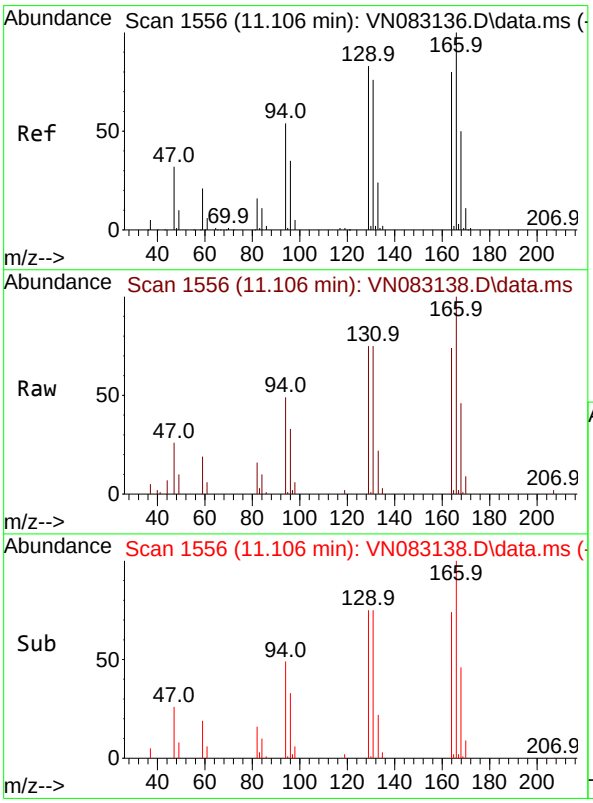
Ion	Ratio	Lower	Upper
117	100		
82	60.2	47.5	71.3
119	31.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
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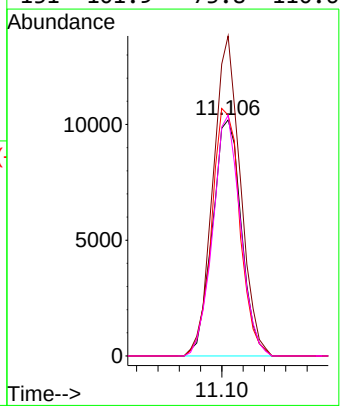
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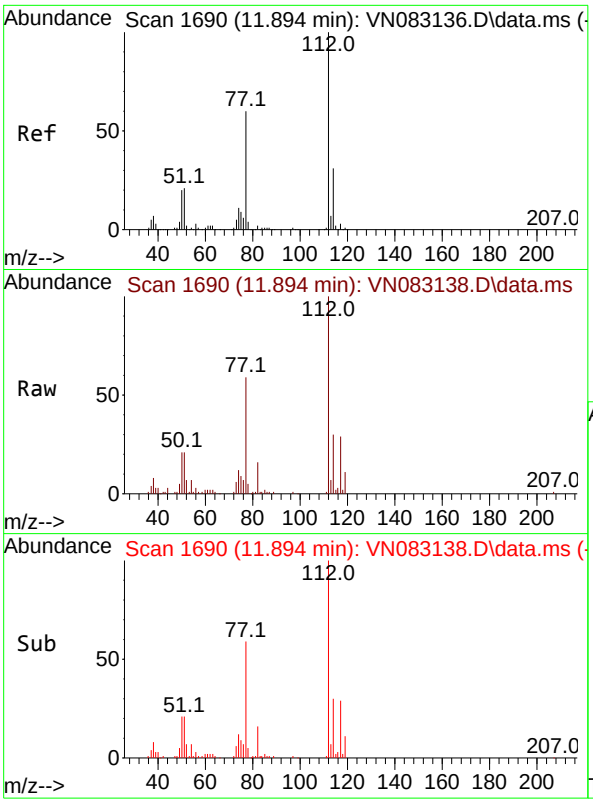


#64
Tetrachloroethene
Concen: 10.362 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:164 Resp: 19174

Ion	Ratio	Lower	Upper
164	100		
166	135.5	101.4	152.0
129	102.0	75.7	113.5
131	101.9	73.8	110.6

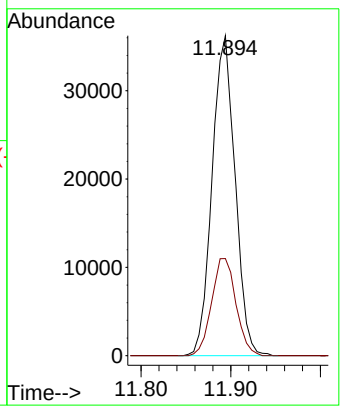




#65
Chlorobenzene
Concen: 10.437 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:112 Resp: 6444

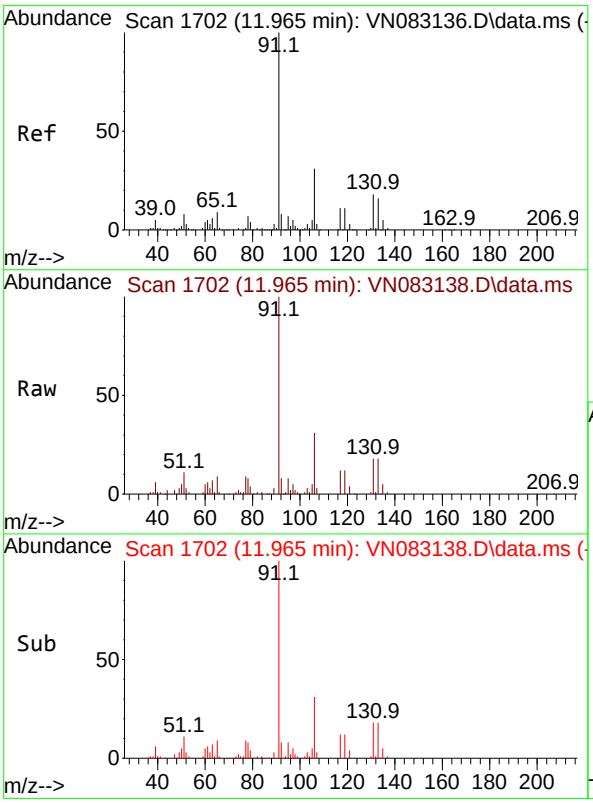
Ion	Ratio	Lower	Upper
112	100		
114	30.4	26.2	39.2



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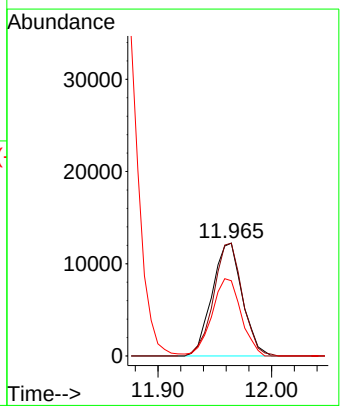
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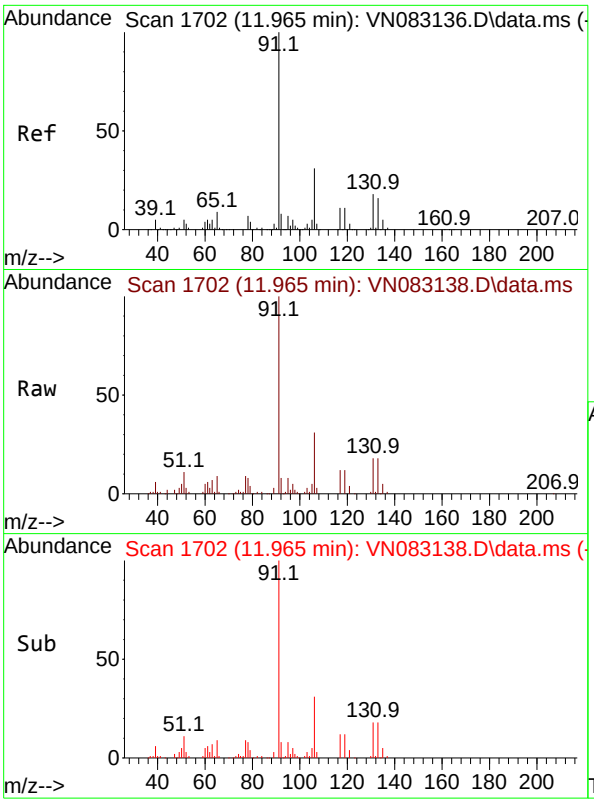


#66
1,1,1,2-Tetrachloroethane
Concen: 10.331 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:131 Resp: 22498

Ion	Ratio	Lower	Upper
131	100		
133	95.7	47.3	142.0
119	66.5	32.5	97.4





#67
Ethyl Benzene
Concen: 10.211 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

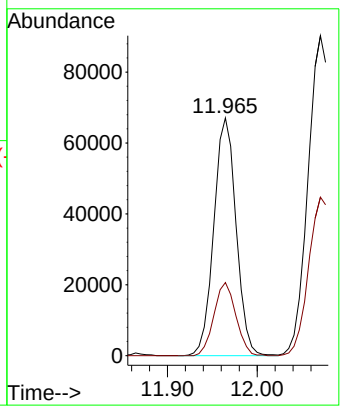
Tgt Ion: 91 Resp: 11566

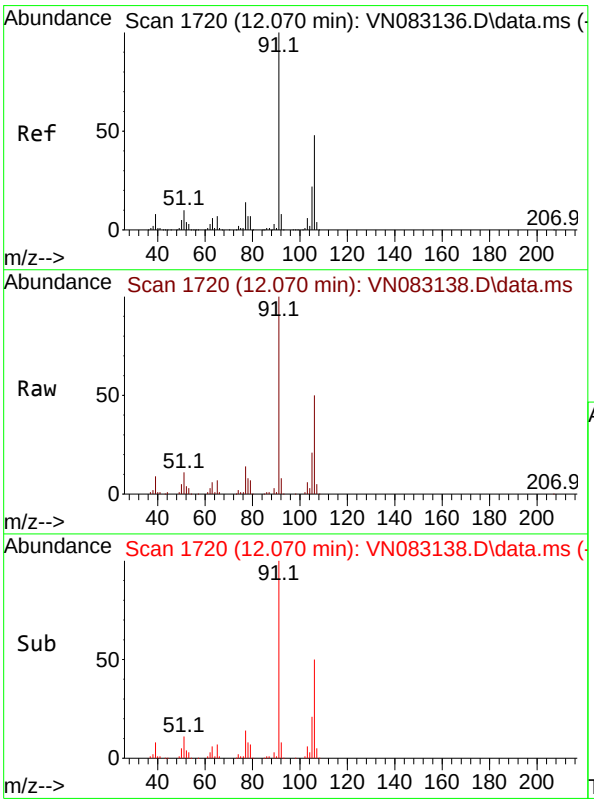
Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.0	36.0

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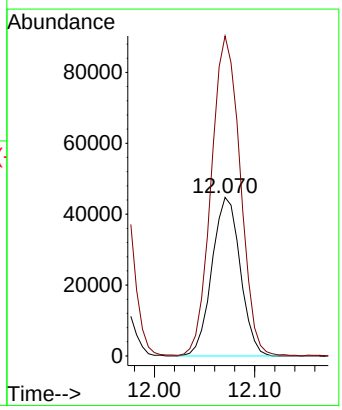


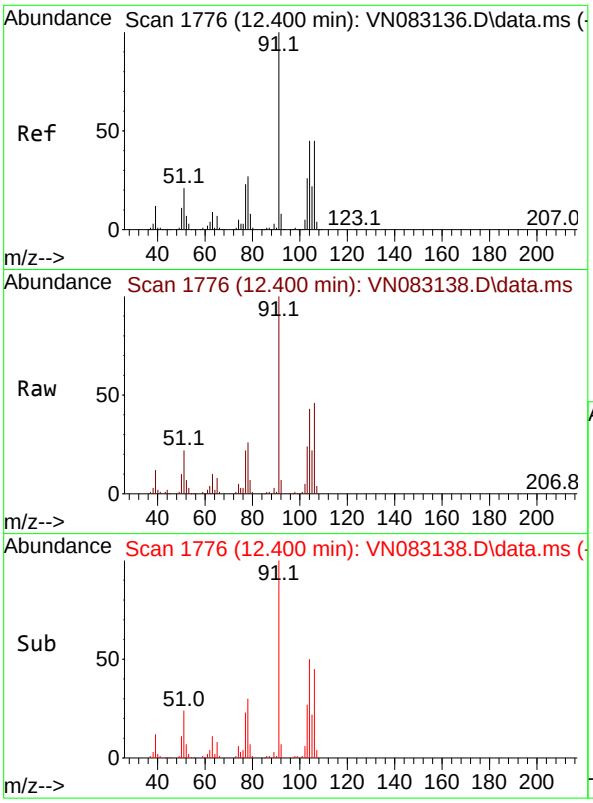


#68
m/p-Xylenes
Concen: 20.687 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:106 Resp: 87775

Ion	Ratio	Lower	Upper
106	100		
91	206.9	166.1	249.1





#69
o-Xylene
Concen: 10.327 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

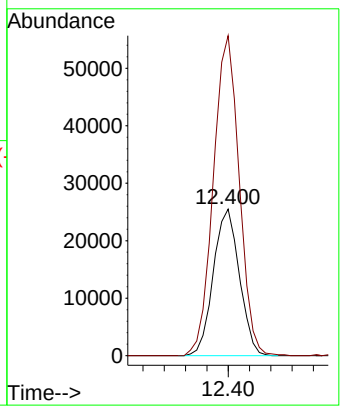
Tgt Ion:106 Resp: 4321

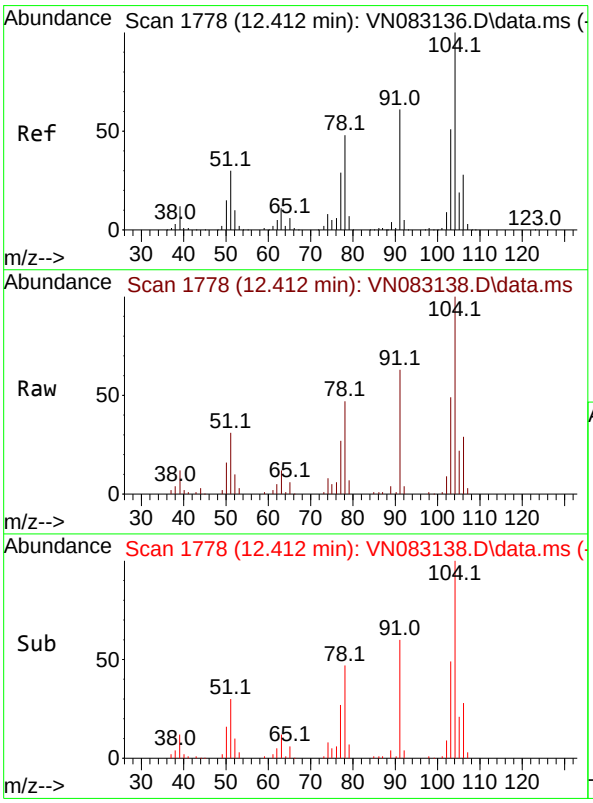
Ion	Ratio	Lower	Upper
106	100		
91	217.0	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
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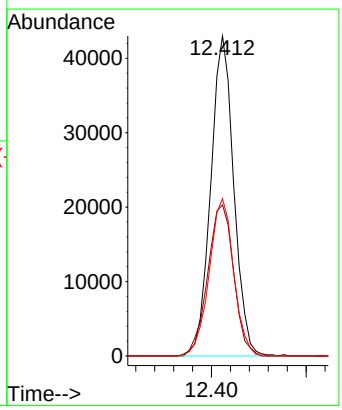


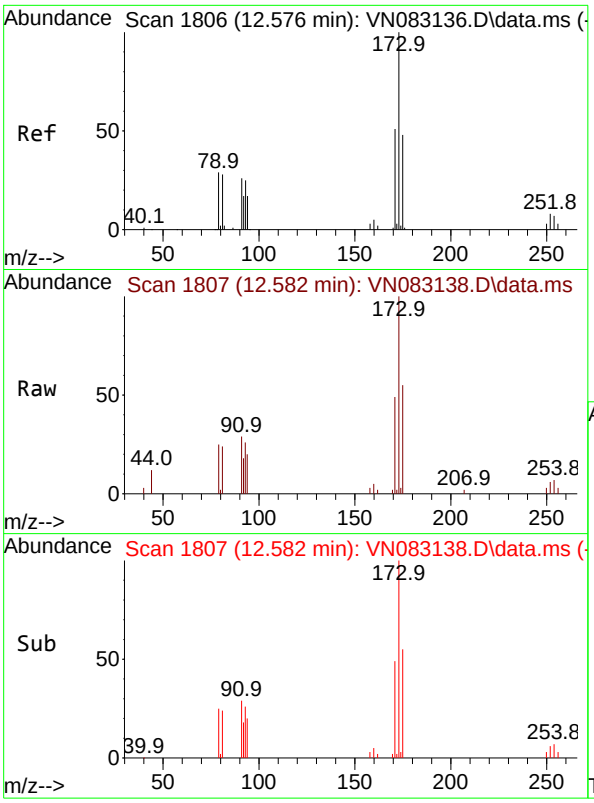


#70
Styrene
Concen: 10.335 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:104 Resp: 72641

Ion	Ratio	Lower	Upper
104	100		
78	53.1	41.6	62.4
103	52.2	44.0	66.0

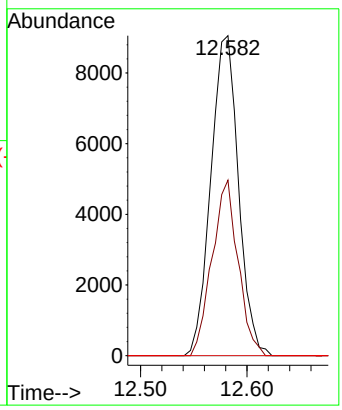




#71
Bromoform
Concen: 9.893 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:173 Resp: 1632

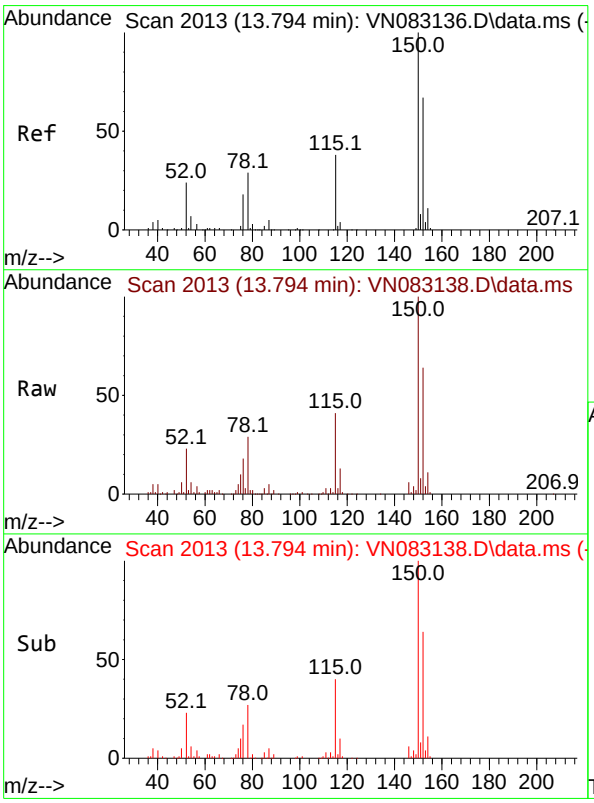
Ion	Ratio	Lower	Upper
173	100		
175	51.7	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

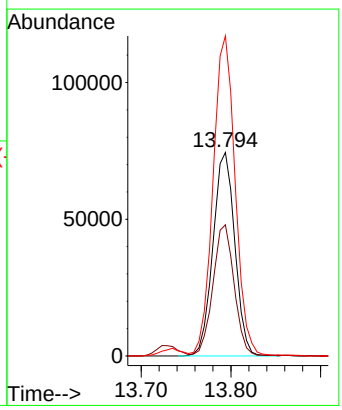
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

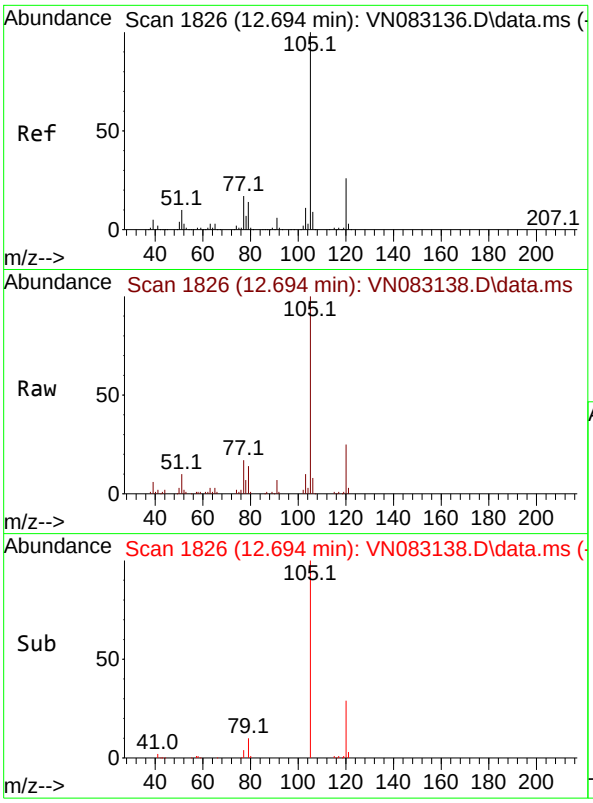


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:152 Resp: 125725

Ion	Ratio	Lower	Upper
152	100		
115	62.4	30.6	91.6
150	158.1	0.0	348.6

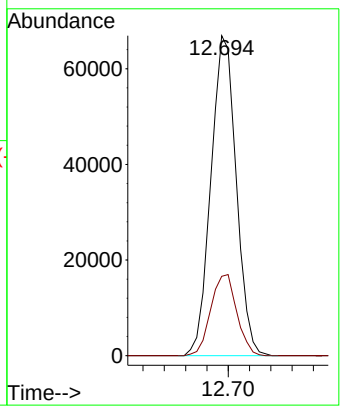




#73
Isopropylbenzene
Concen: 10.487 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:105 Resp: 11027

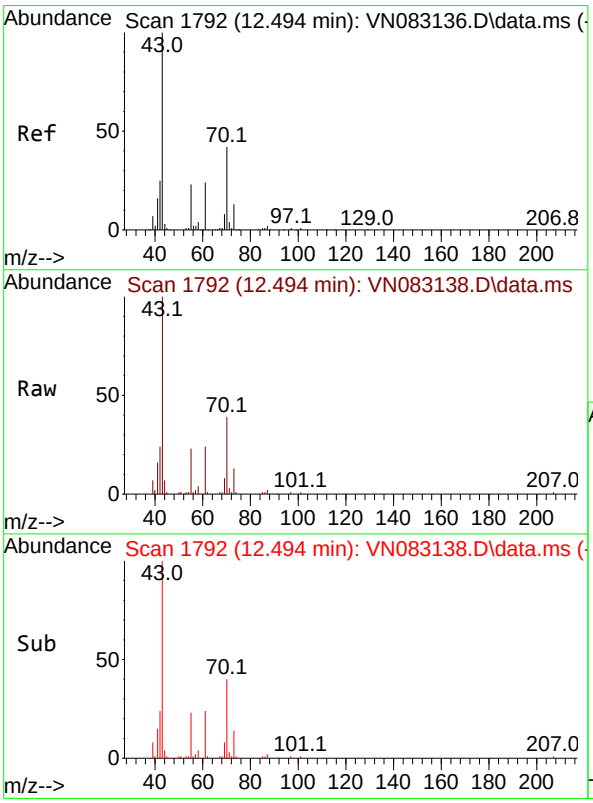
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

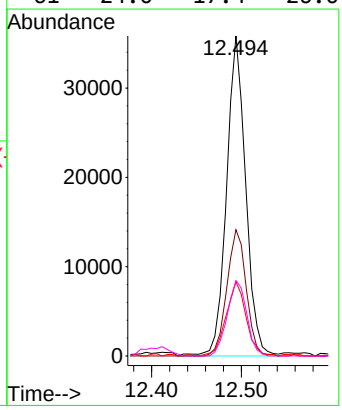
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

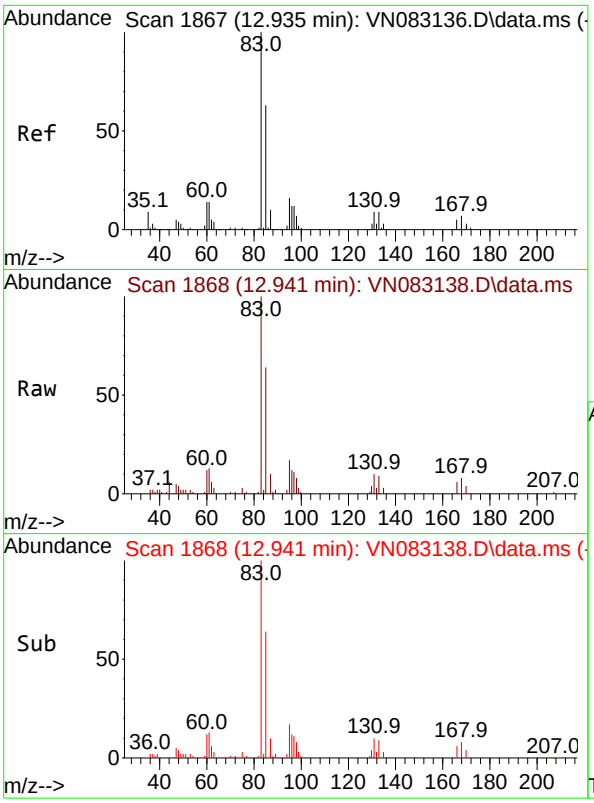


#74
N-amyl acetate
Concen: 10.303 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 52998

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





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

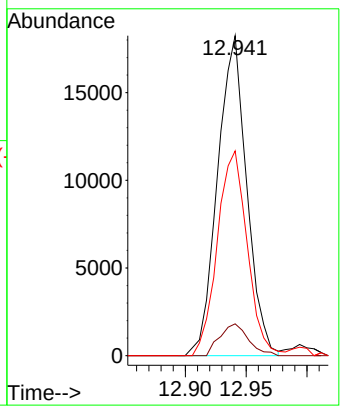
Tgt Ion: 83 Resp: 3043

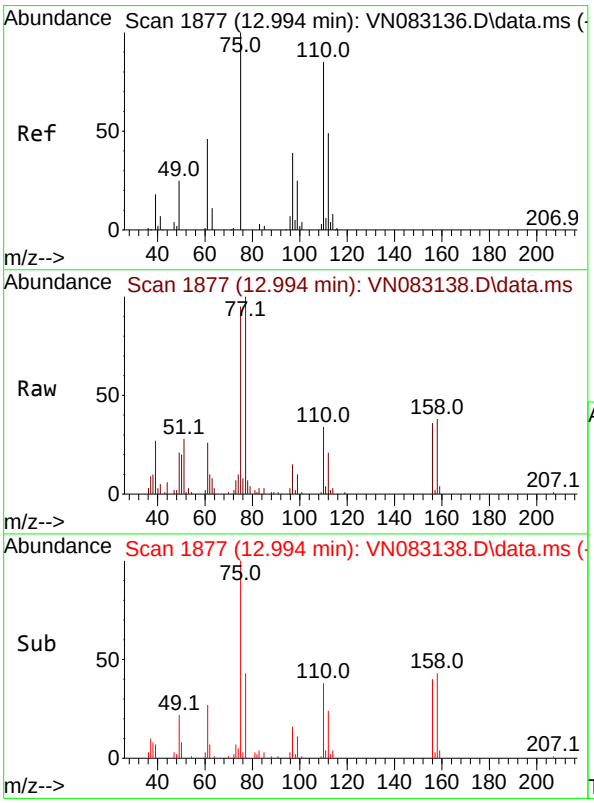
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	65.6	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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

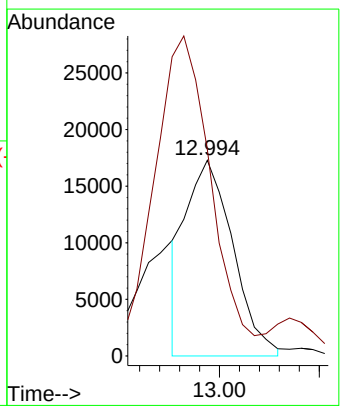


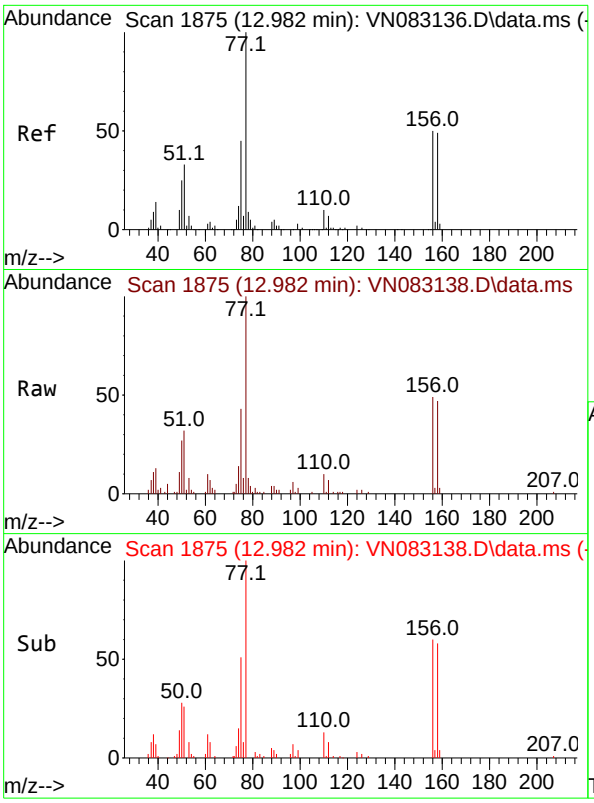


#76
1,2,3-Trichloropropane
Concen: 10.261 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 28359

Ion	Ratio	Lower	Upper
75	100		
77	197.9	110.9	332.6

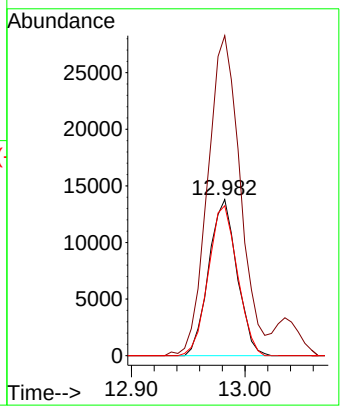




#77
Bromobenzene
Concen: 10.180 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:156 Resp: 2378

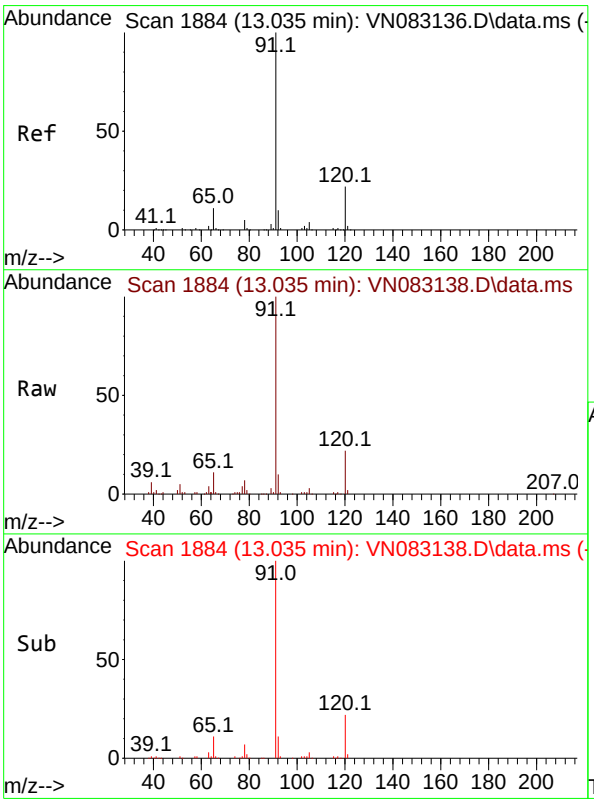
Ion	Ratio	Lower	Upper
156	100		
77	236.0	111.3	333.8
158	98.9	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

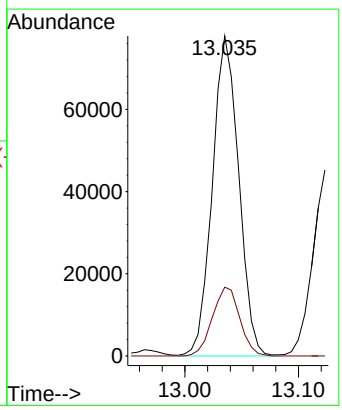
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

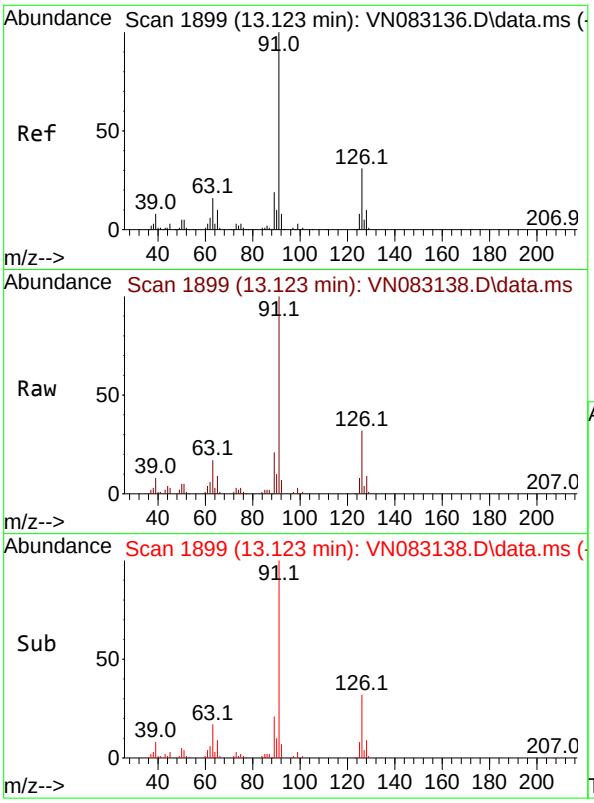


#78
n-propylbenzene
Concen: 10.379 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 91 Resp: 125678

Ion	Ratio	Lower	Upper
91	100		
120	22.2	10.9	32.9





#79
2-Chlorotoluene
Concen: 10.429 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

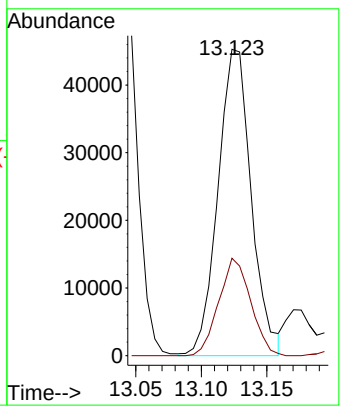
Tgt Ion: 91 Resp: 8006

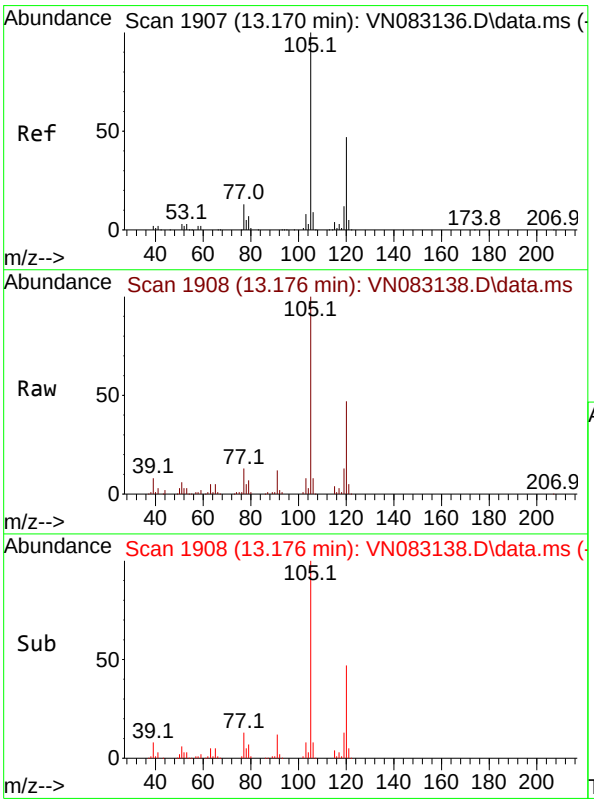
Ion	Ratio	Lower	Upper
91	100		
126	30.4	16.2	48.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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

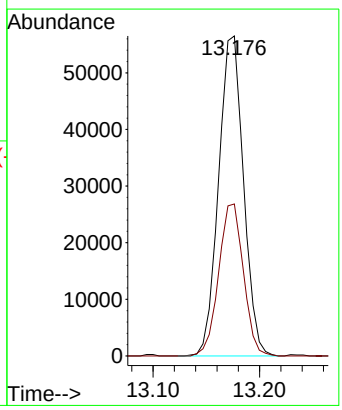


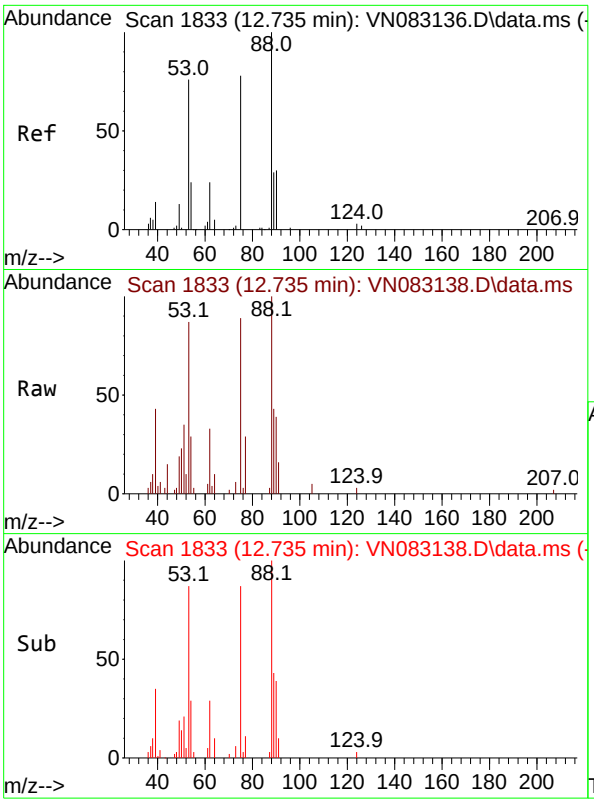


#80
1,3,5-Trimethylbenzene
Concen: 10.400 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:105 Resp: 91559

Ion	Ratio	Lower	Upper
105	100		
120	47.3	24.3	72.8





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

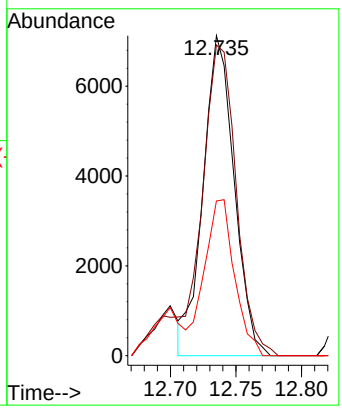
Tgt Ion: 75 Resp: 1176

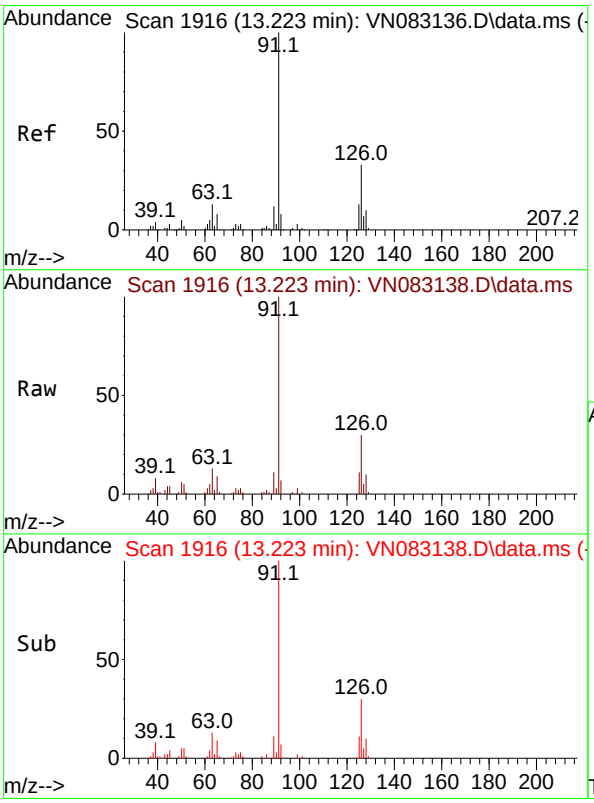
Ion	Ratio	Lower	Upper
75	100		
53	116.7	88.4	132.6
89	47.3	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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

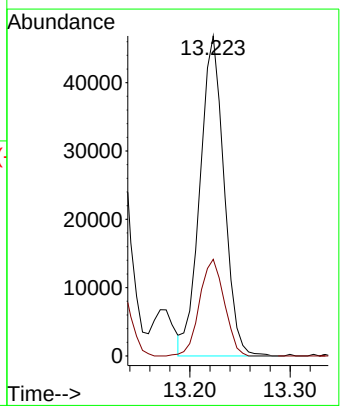


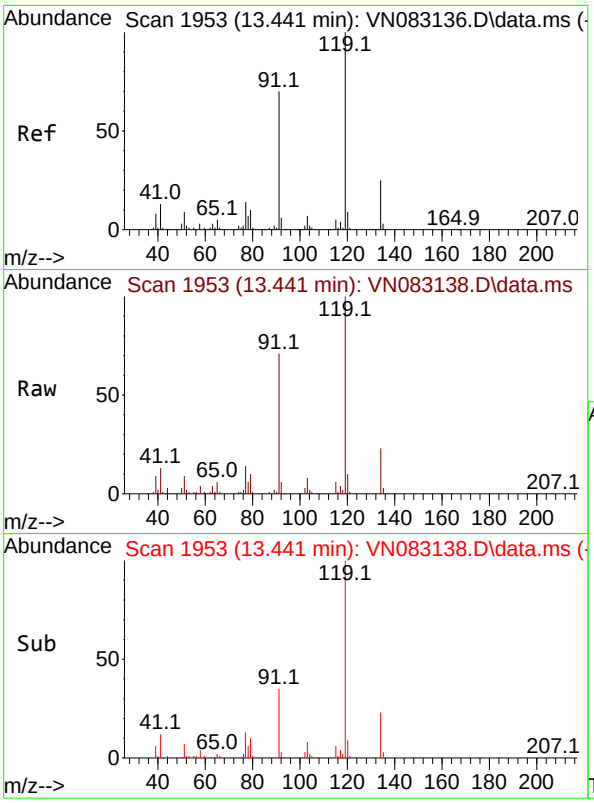


#82
4-Chlorotoluene
Concen: 10.174 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 91 Resp: 78348

Ion	Ratio	Lower	Upper
91	100		
126	31.0	16.2	48.6

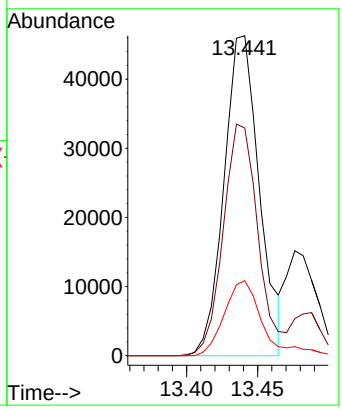




#83
tert-Butylbenzene
Concen: 10.294 ug/l
RT: 13.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:119 Resp: 8026

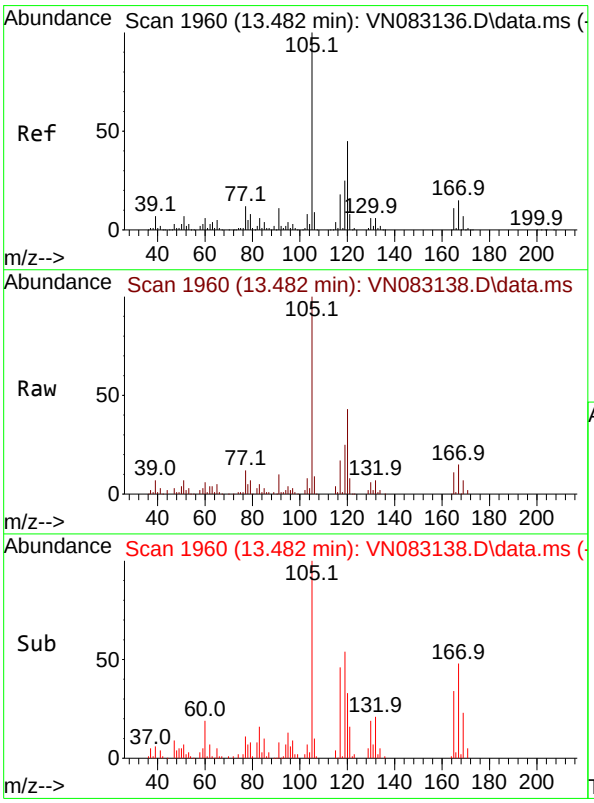
Ion	Ratio	Lower	Upper
119	100		
91	71.7	35.0	105.1
134	25.3	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

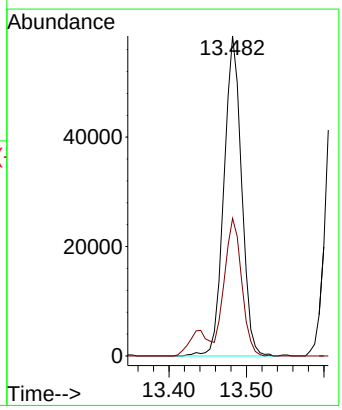
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

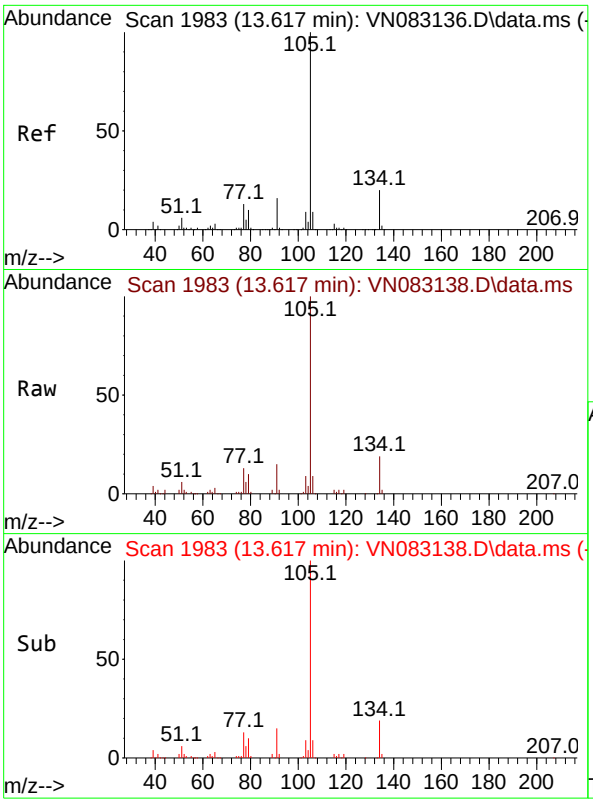


#84
1,2,4-Trimethylbenzene
Concen: 10.426 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:105 Resp: 92502

Ion	Ratio	Lower	Upper
105	100		
120	42.1	21.9	65.8





#85
sec-Butylbenzene
Concen: 10.221 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

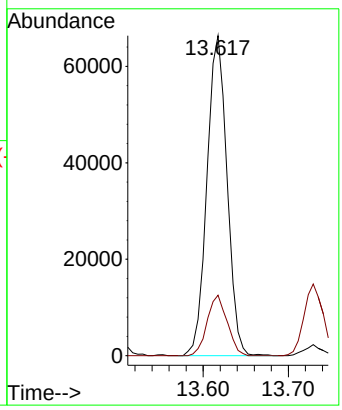
Tgt Ion:105 Resp: 10874

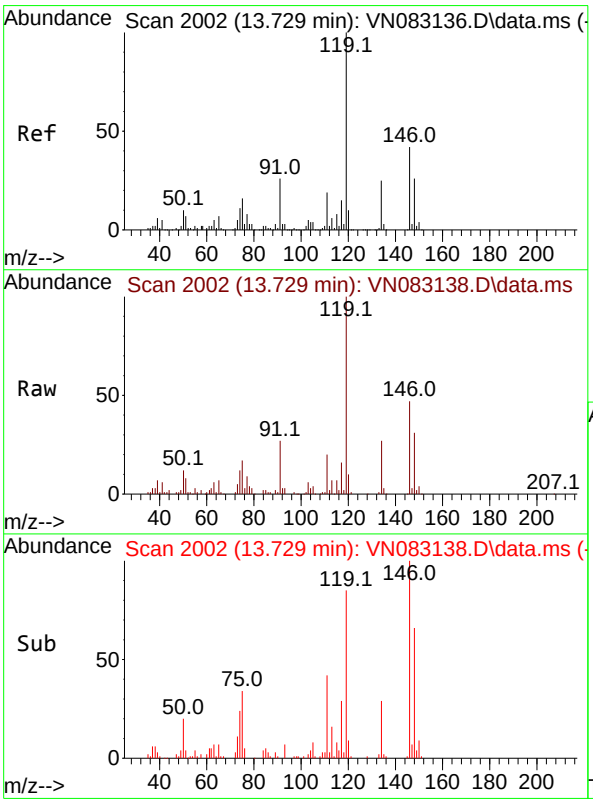
Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

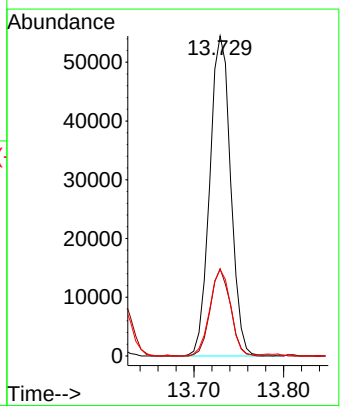


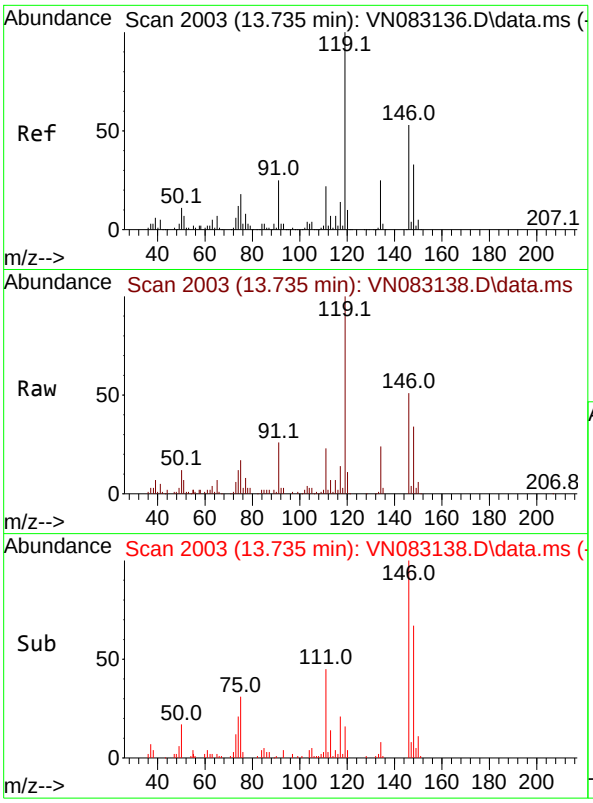


#86
p-Isopropyltoluene
Concen: 10.047 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:119 Resp: 88256

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.0	39.0
91	27.0	12.3	36.9





#87
1,3-Dichlorobenzene
Concen: 10.048 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

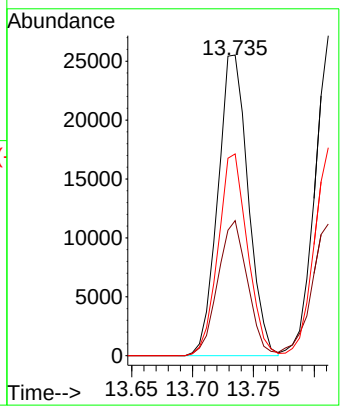
Tgt Ion:146 Resp: 4416

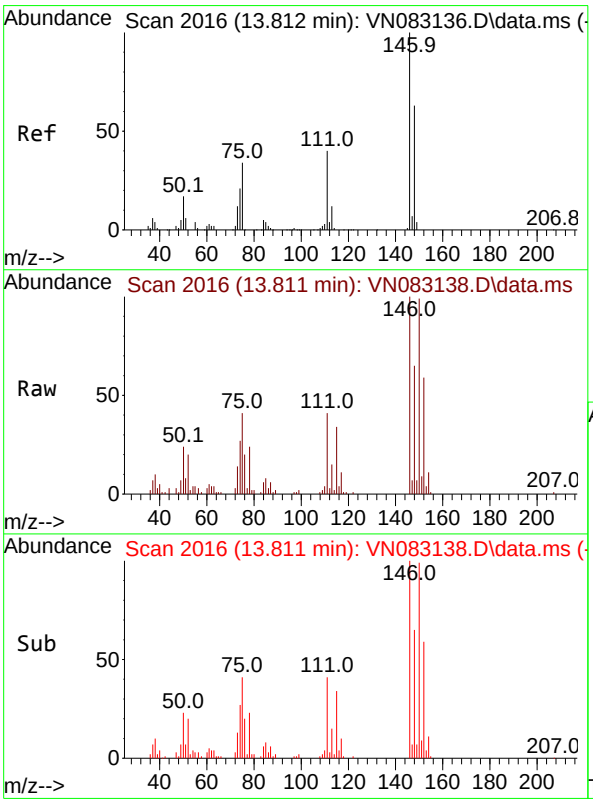
Ion	Ratio	Lower	Upper
146	100		
111	44.1	20.6	61.9
148	65.1	31.8	95.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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

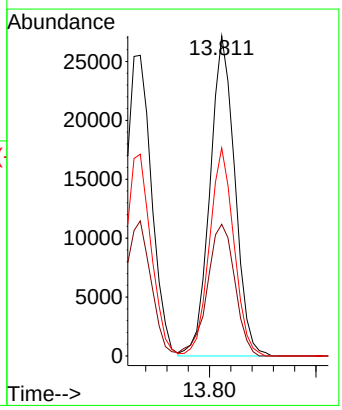


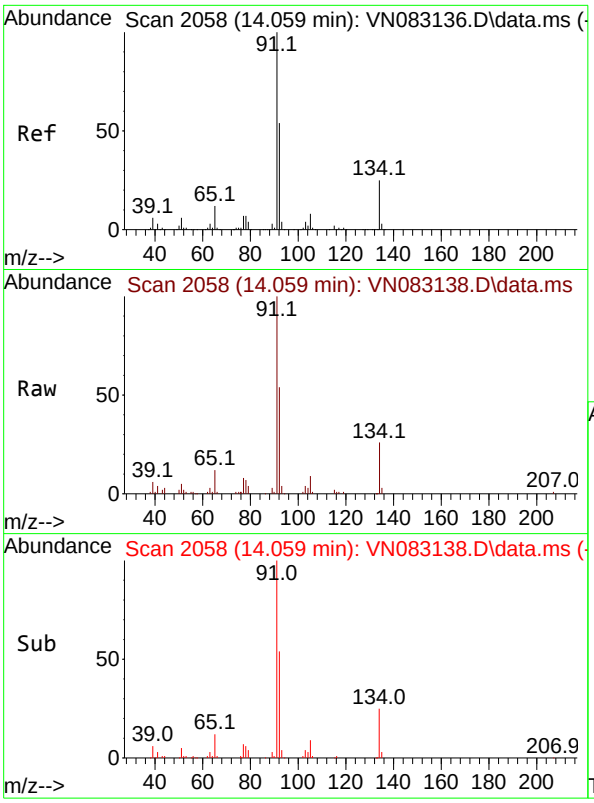


#88
1,4-Dichlorobenzene
Concen: 9.937 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:146 Resp: 44036

Ion	Ratio	Lower	Upper
146	100		
111	45.6	20.1	60.3
148	64.0	32.2	96.6





#89
n-Butylbenzene
Concen: 10.060 ug/l
RT: 14.059 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

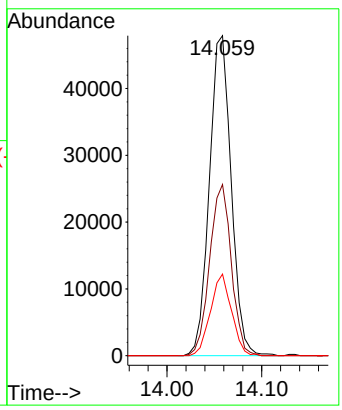
Tgt Ion: 91 Resp: 7656

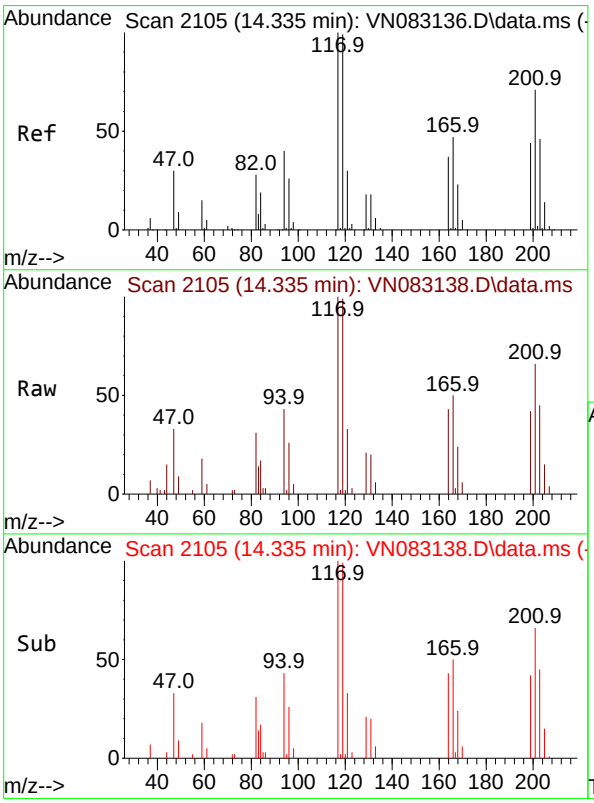
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.1	78.3
134	24.7	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

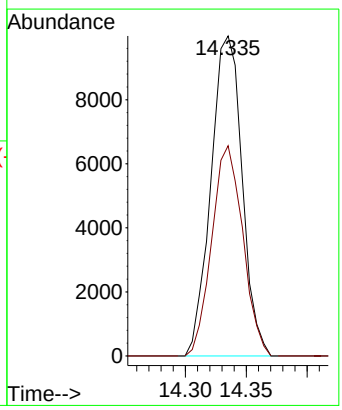


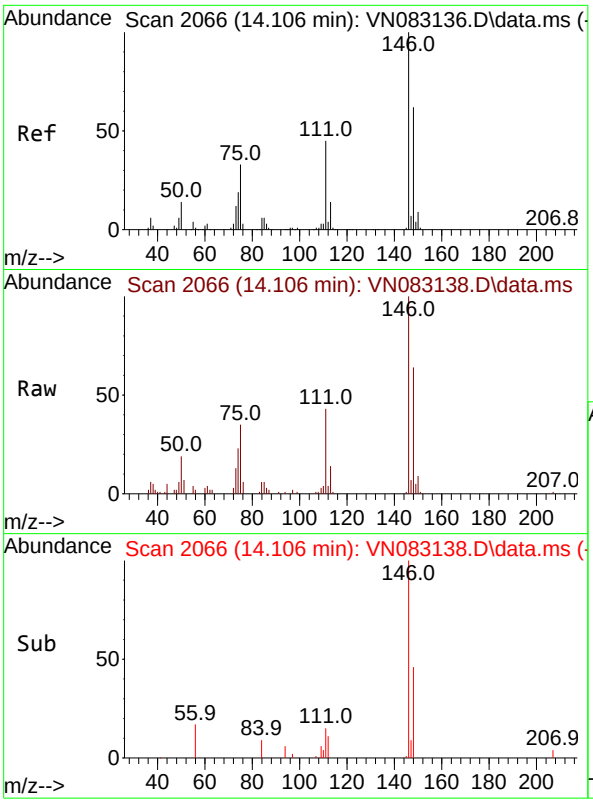


#90
Hexachloroethane
Concen: 10.487 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:117 Resp: 17798

Ion	Ratio	Lower	Upper
117	100		
201	65.3	35.8	107.3

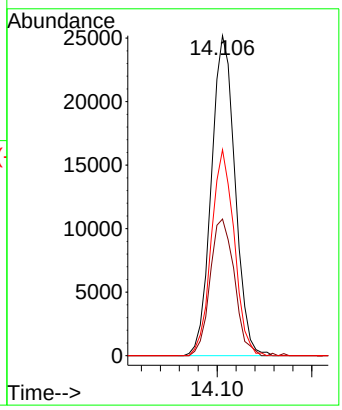




#91
1,2-Dichlorobenzene
Concen: 10.282 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:146 Resp: 4373

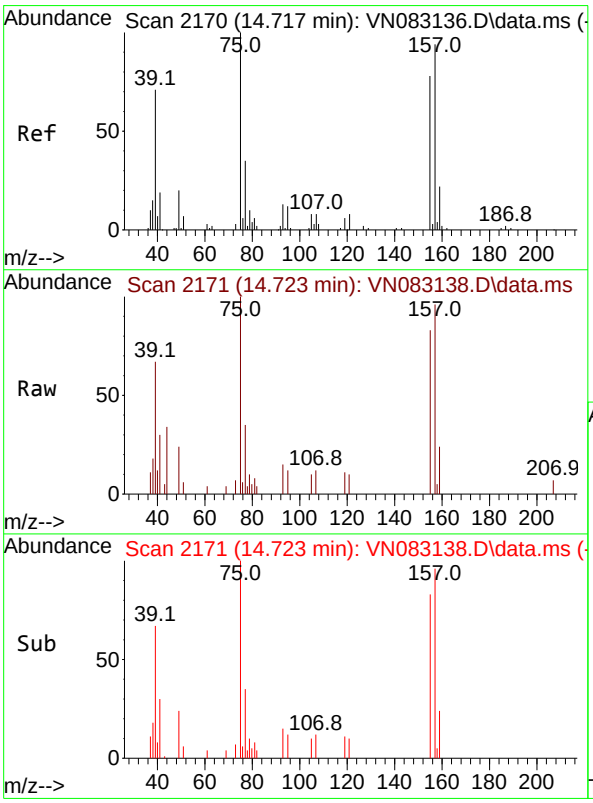
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.4	64.2
148	62.3	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

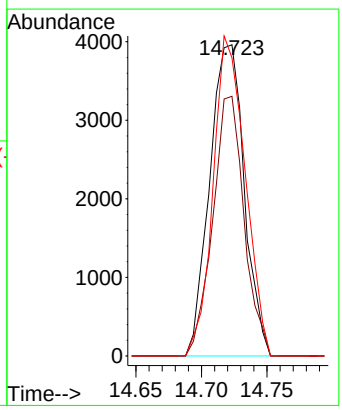
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

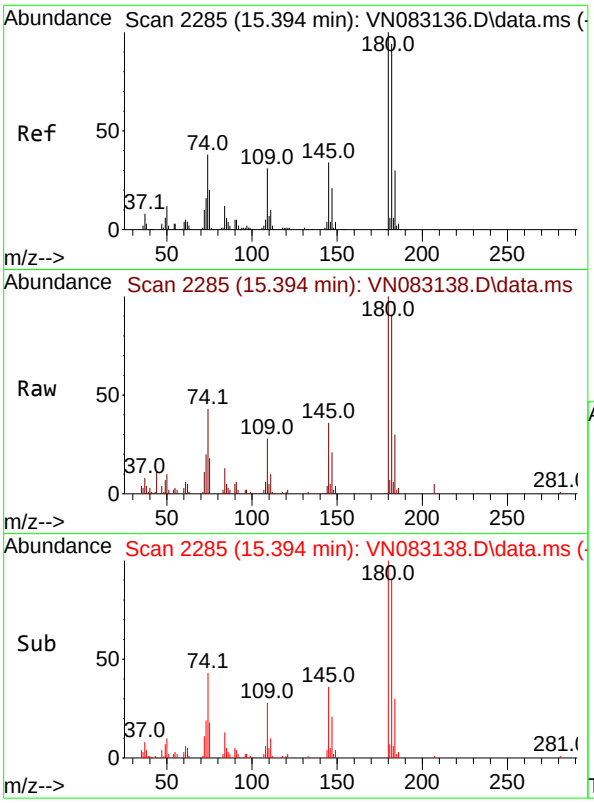


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.056 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 7258

Ion	Ratio	Lower	Upper
75	100		
155	75.6	36.6	109.8
157	95.2	46.9	140.6

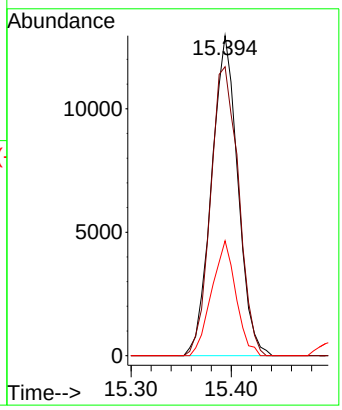




#93
1,2,4-Trichlorobenzene
Concen: 9.895 ug/l
RT: 15.394 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:180 Resp: 2358

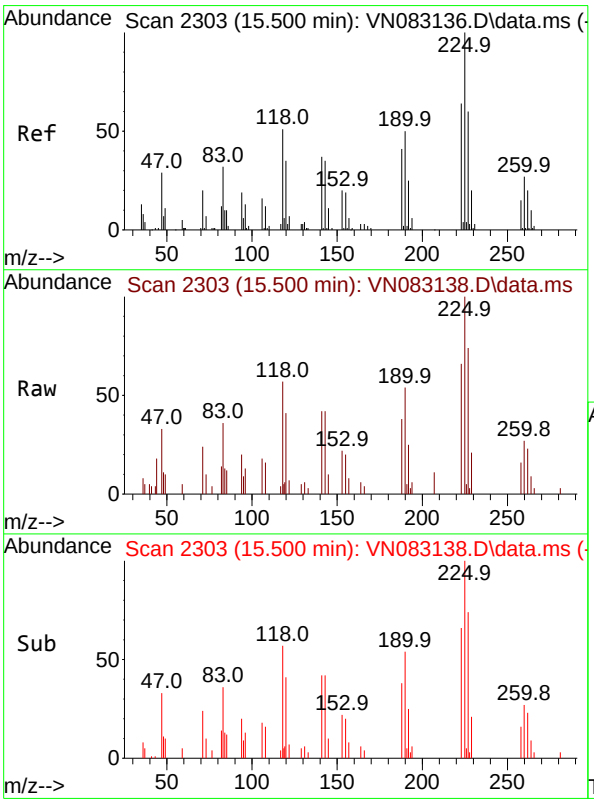
Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.3	141.8
145	33.2	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

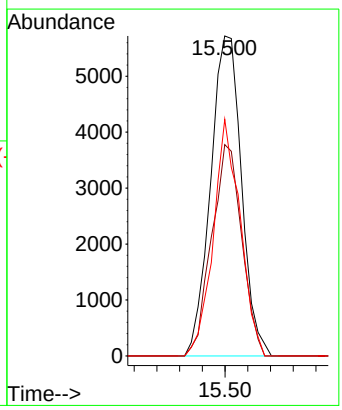
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

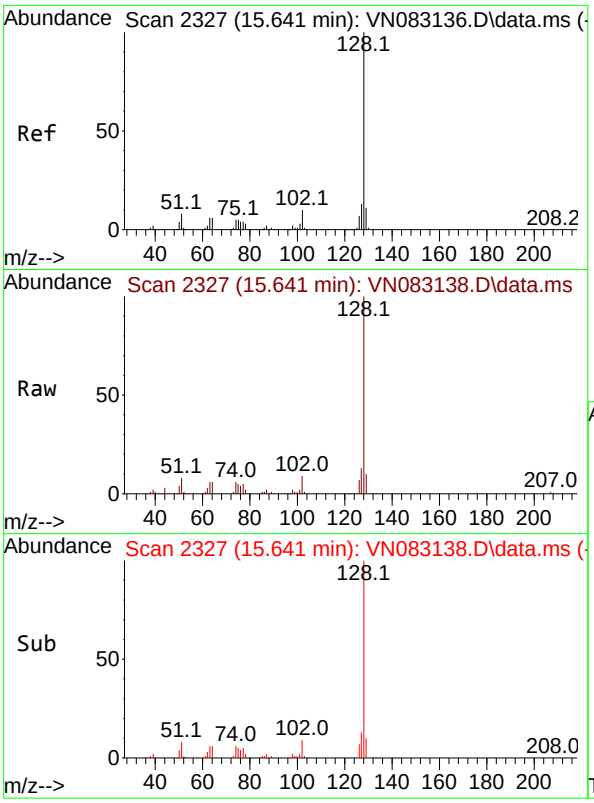


#94
Hexachlorobutadiene
Concen: 10.179 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:225 Resp: 10788

Ion	Ratio	Lower	Upper
225	100		
223	64.4	31.9	95.7
227	64.4	32.5	97.5

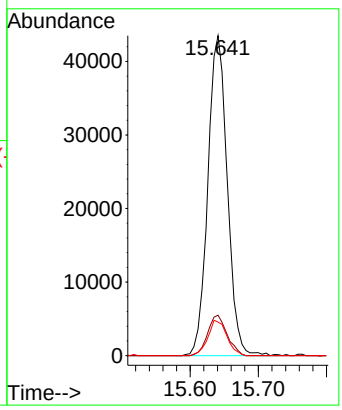




#95
Naphthalene
Concen: 10.232 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:128 Resp: 8637

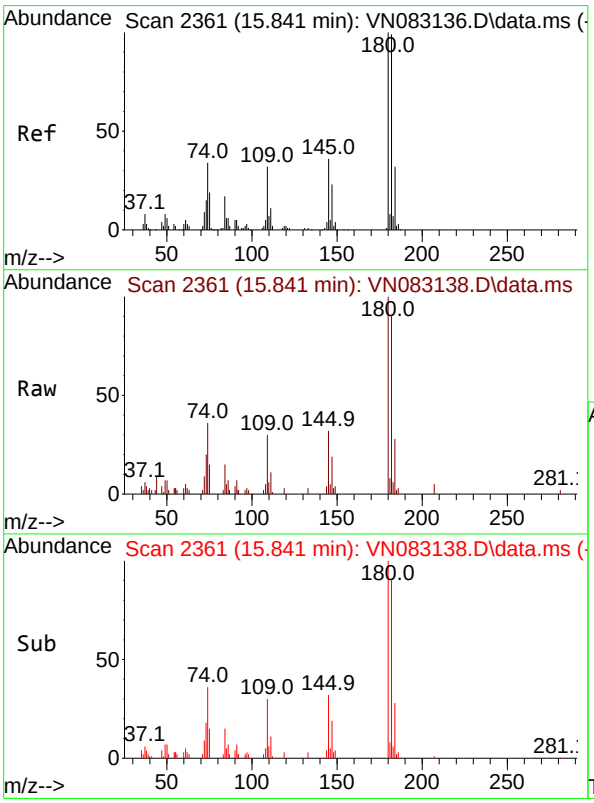
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

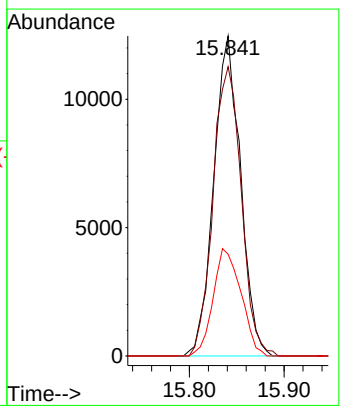
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



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

Tgt Ion:180 Resp: 24492

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



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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

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

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

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

ICAL Form

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

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

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

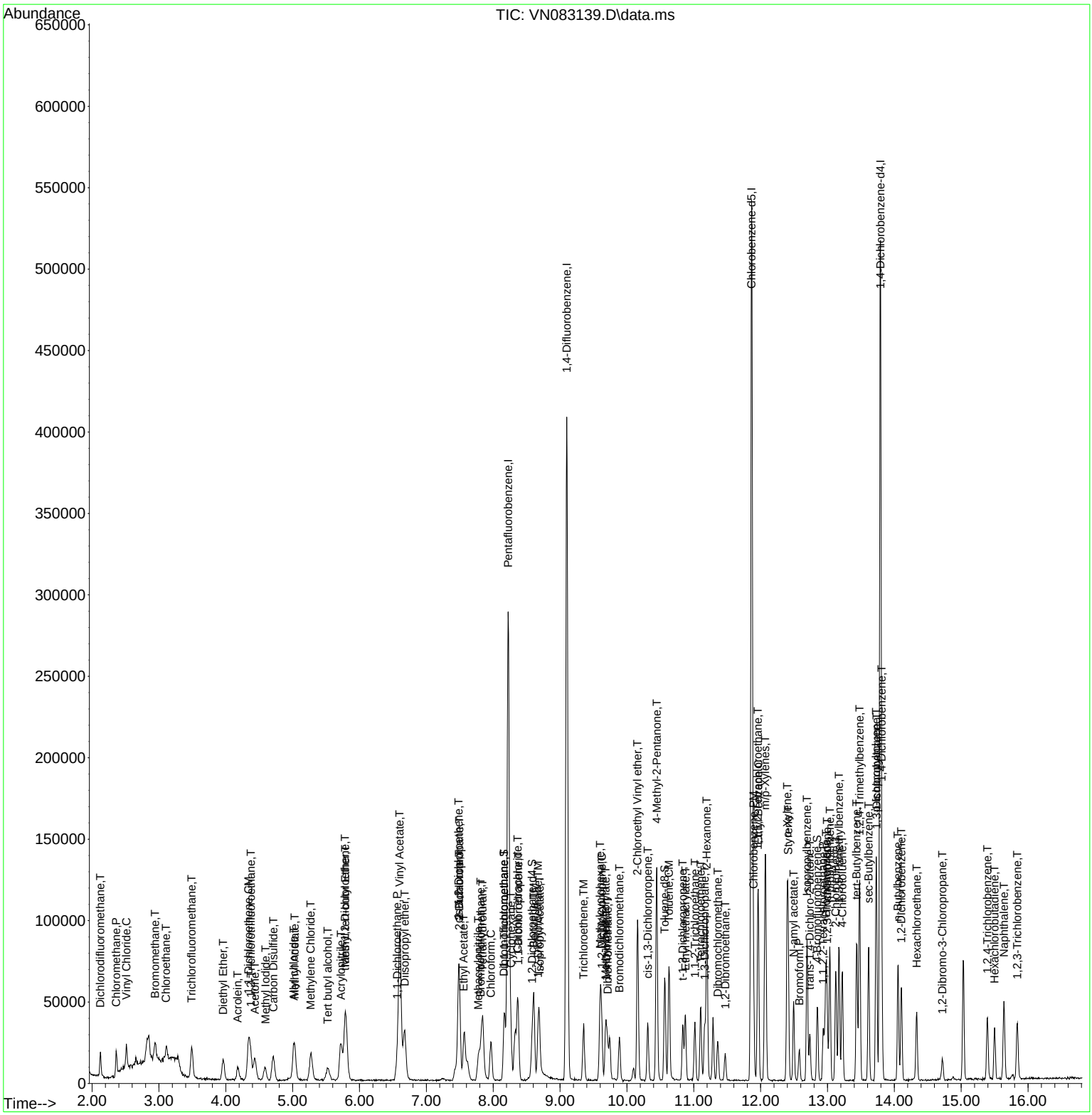
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083139.D
Acq On : 07 Aug 2024 12:10
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

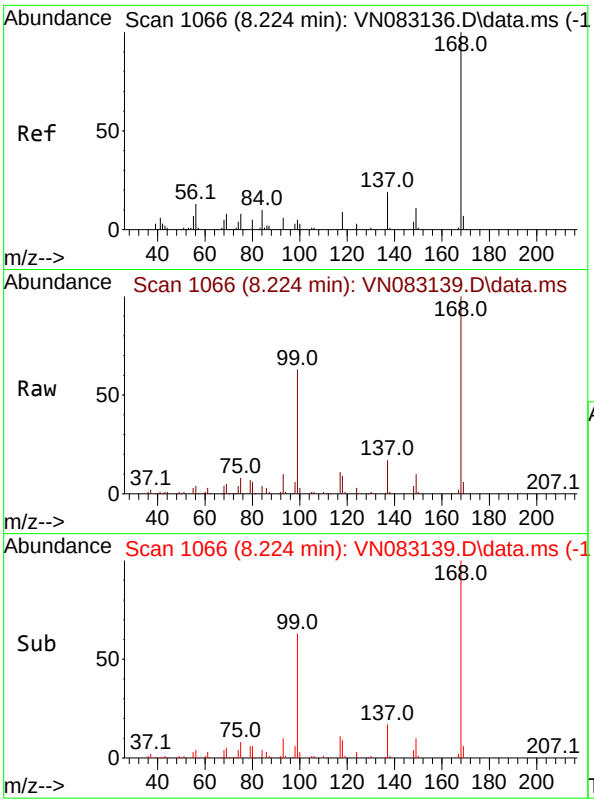
Quant Time: Aug 08 06:18:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

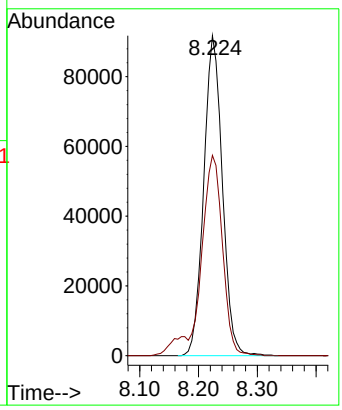




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:168 Resp: 20185

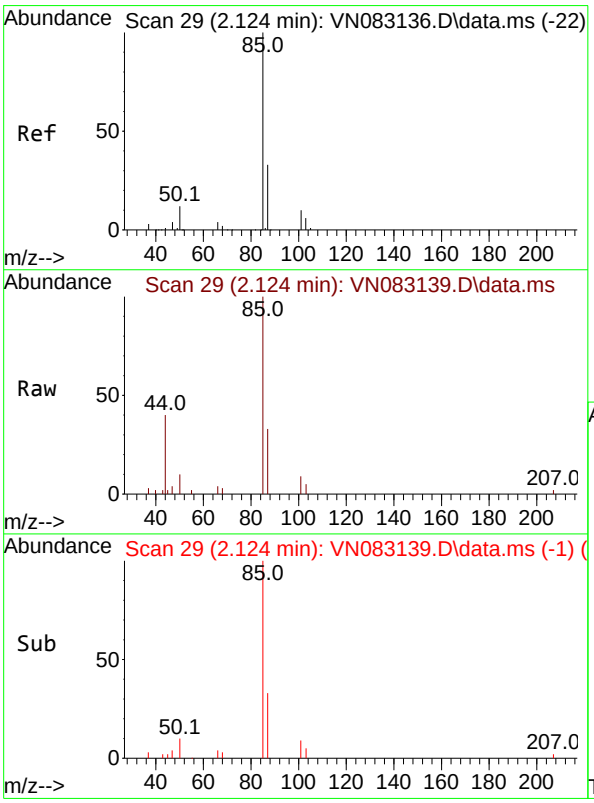
Ion	Ratio	Lower	Upper
168	100		
99	62.6	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

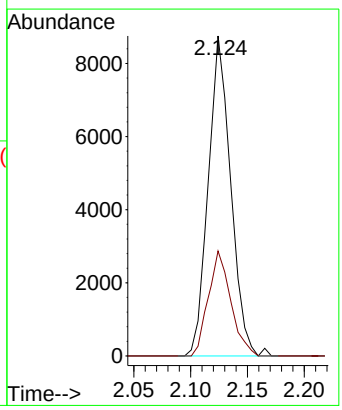
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

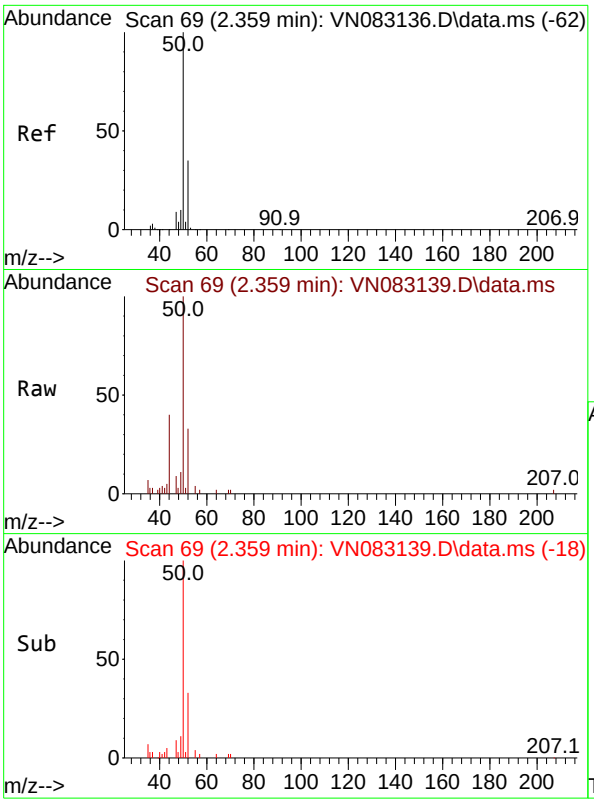


#2
Dichlorodifluoromethane
Concen: 5.262 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 85 Resp: 12045

Ion	Ratio	Lower	Upper
85	100		
87	32.8	15.7	47.0

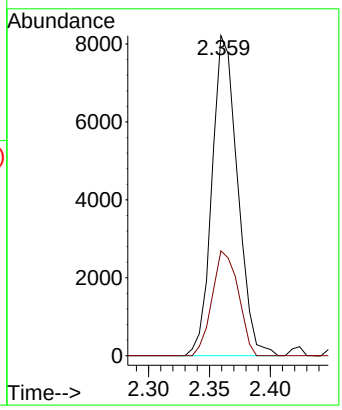




#3
Chloromethane
Concen: 5.128 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 50 Resp: 1201

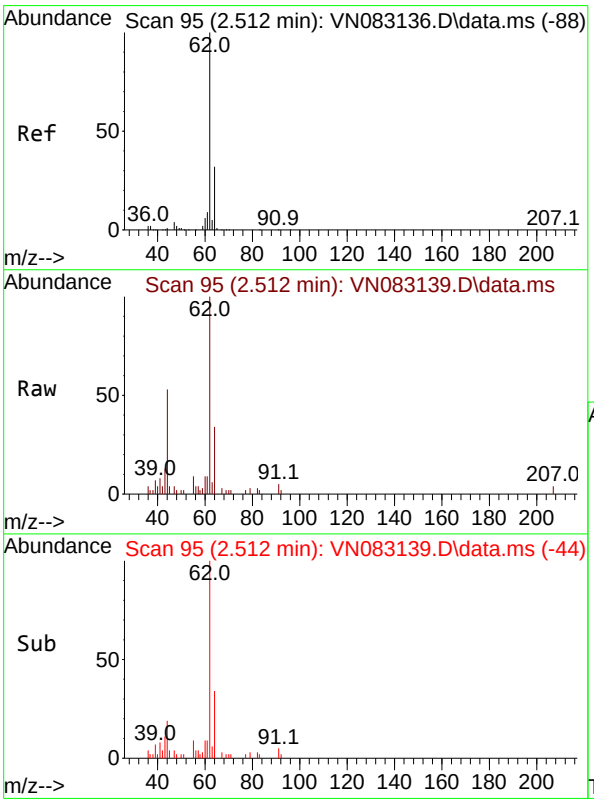
Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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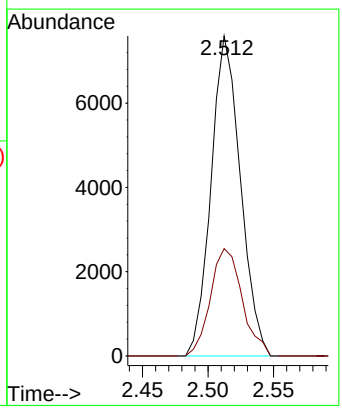
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

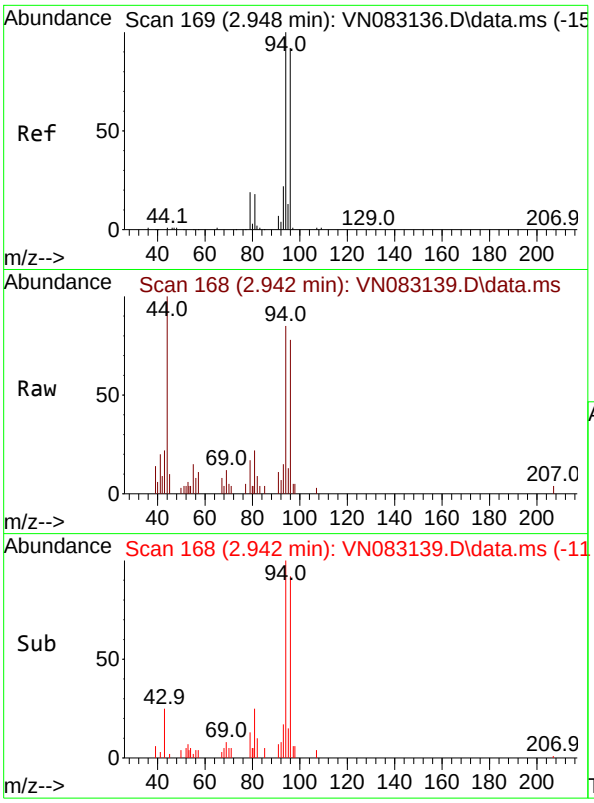


#4
Vinyl Chloride
Concen: 4.950 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 62 Resp: 11837

Ion	Ratio	Lower	Upper
62	100		
64	33.6	25.0	37.6





#5
Bromomethane
Concen: 5.612 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

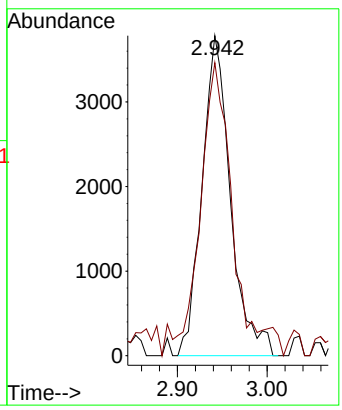
Tgt Ion: 94 Resp: 832

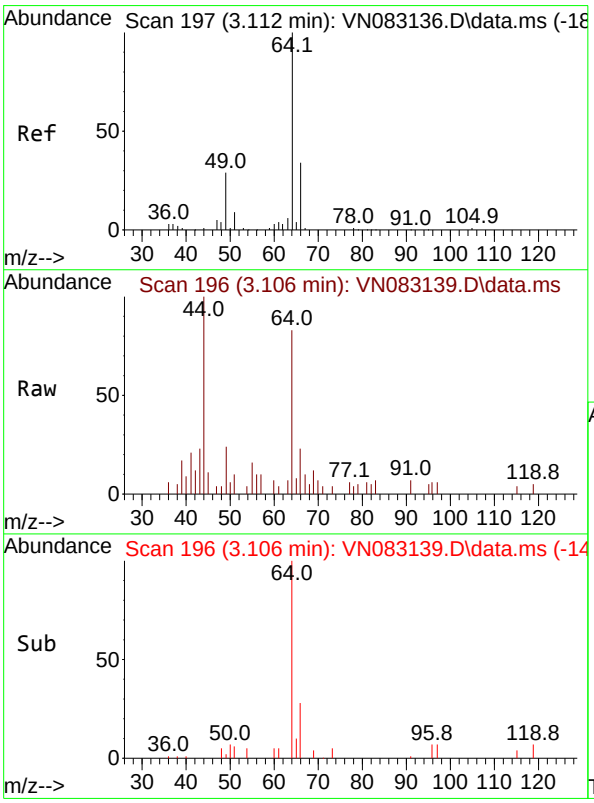
Ion	Ratio	Lower	Upper
94	100		
96	85.3	78.0	117.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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

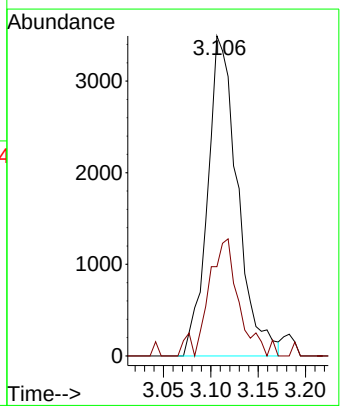


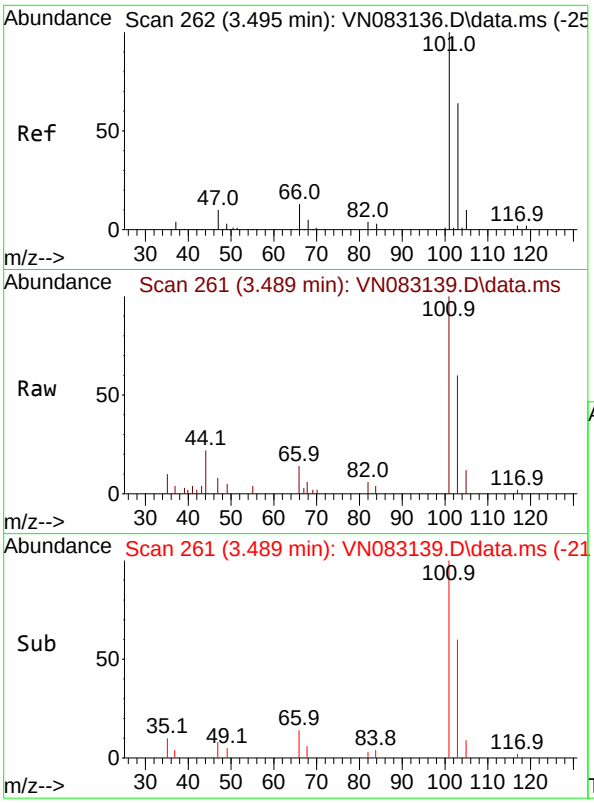


#6
Chloroethane
Concen: 5.139 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 64 Resp: 7688

Ion	Ratio	Lower	Upper
64	100		
66	27.9	26.6	40.0





#7
Trichlorofluoromethane
Concen: 5.124 ug/l
RT: 3.489 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

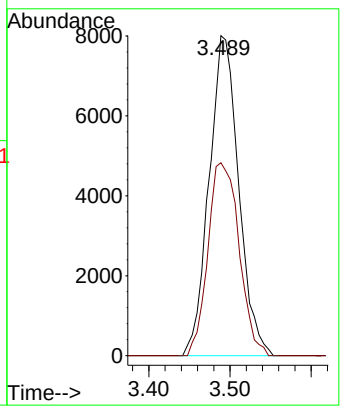
Tgt Ion:101 Resp: 2024

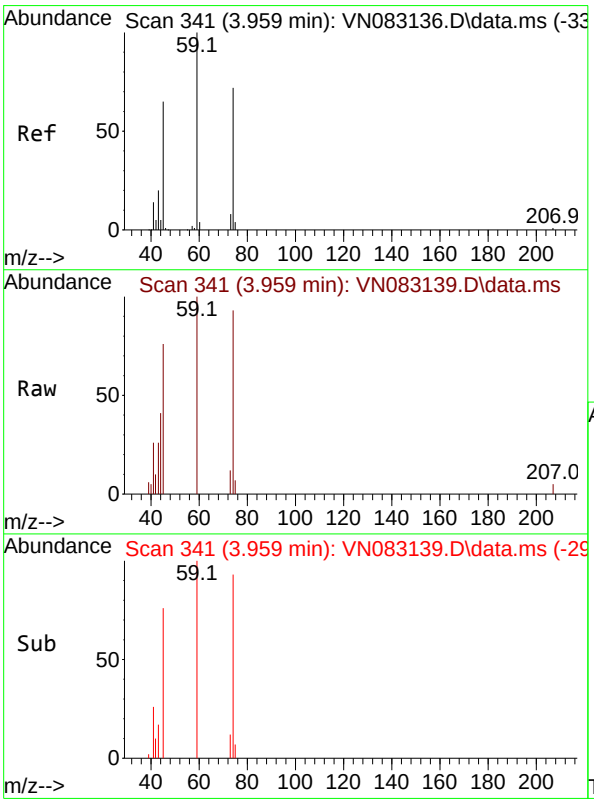
Ion	Ratio	Lower	Upper
101	100		
103	60.3	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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

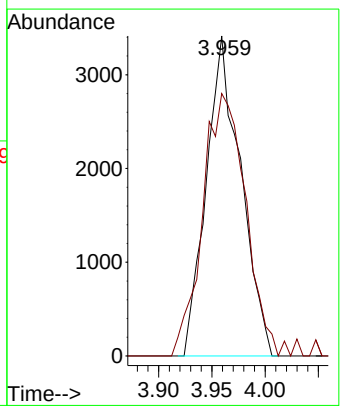


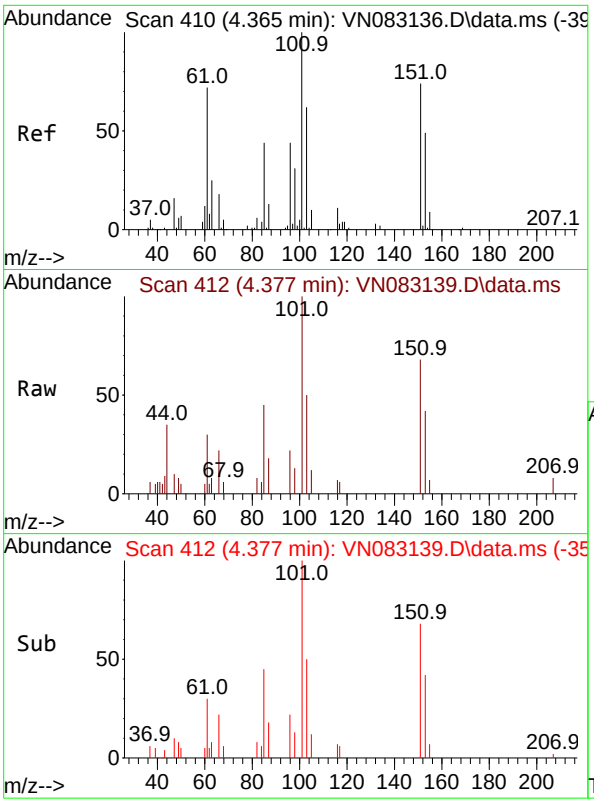


#8
Diethyl Ether
Concen: 5.220 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 74 Resp: 7674

Ion	Ratio	Lower	Upper
74	100		
45	101.8	55.5	166.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.170 ug/l
RT: 4.377 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

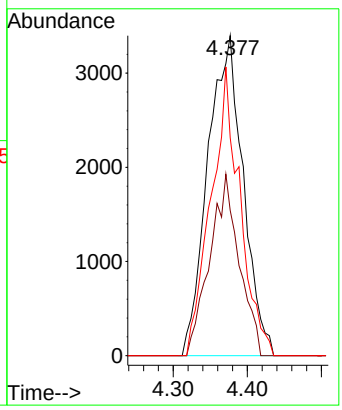
Tgt Ion:101 Resp: 1126

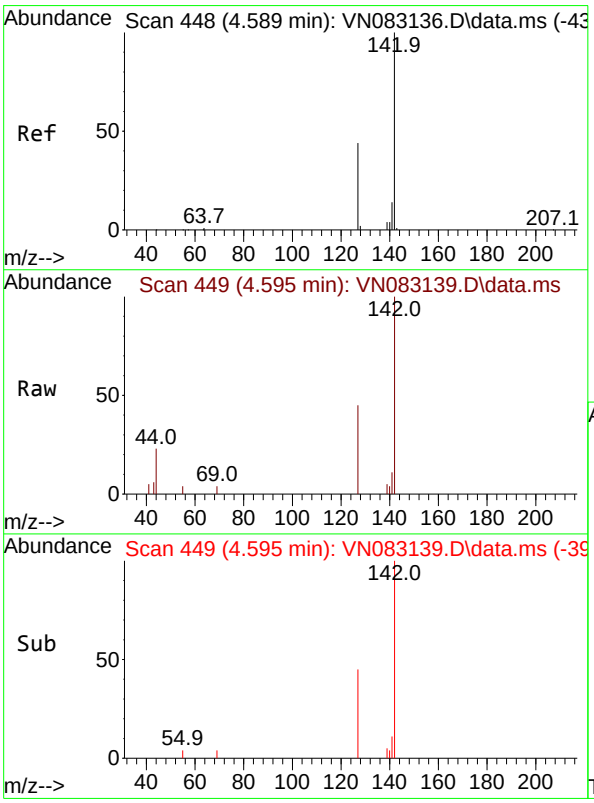
Ion	Ratio	Lower	Upper
101	100		
85	47.2	38.3	57.5
151	74.4	59.3	88.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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

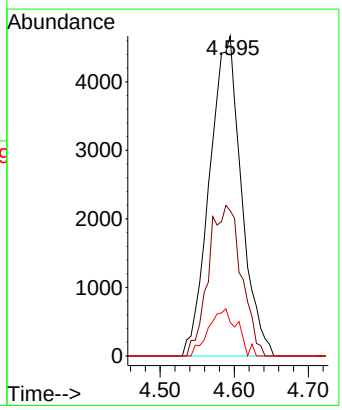


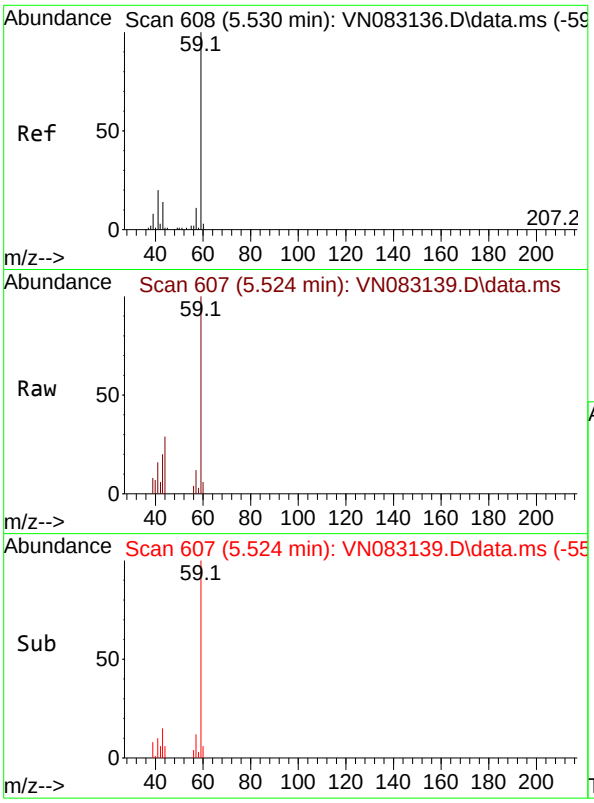


#10
Methyl Iodide
Concen: 4.844 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:142 Resp: 13878

Ion	Ratio	Lower	Upper
142	100		
127	45.4	37.5	56.3
141	10.5	13.1	19.7#

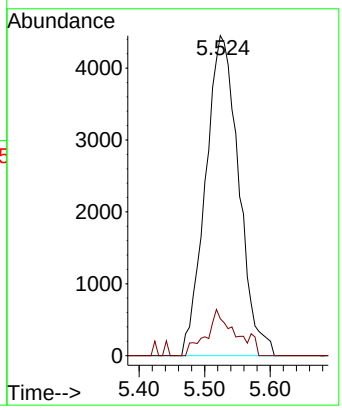




#11
Tert butyl alcohol
Concen: 26.268 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 59 Resp: 1568

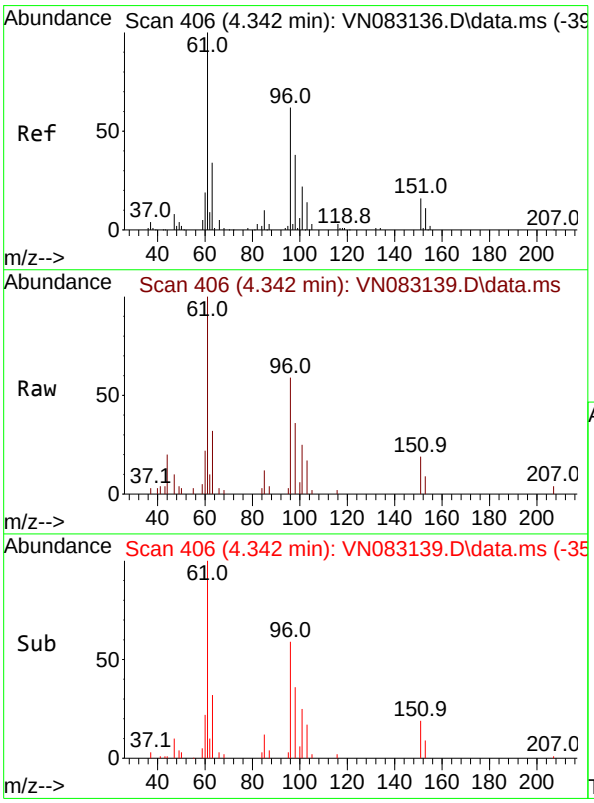
Ion	Ratio	Lower	Upper
59	100		
57	11.4	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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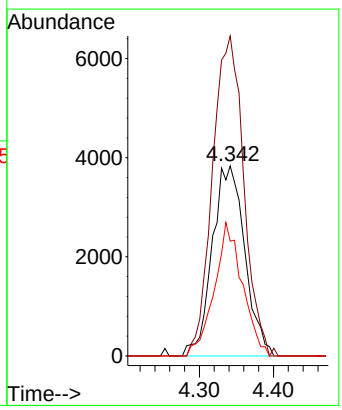
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

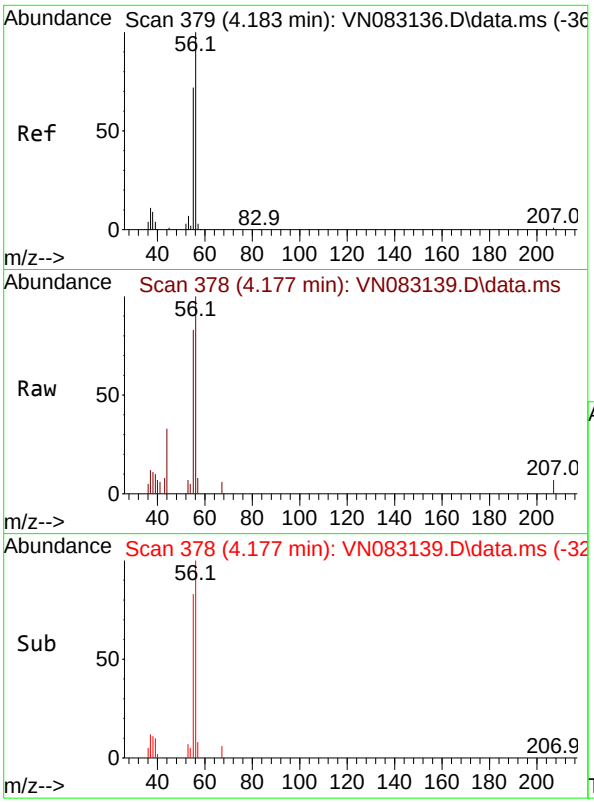


#12
1,1-Dichloroethene
Concen: 5.237 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 96 Resp: 11718

Ion	Ratio	Lower	Upper
96	100		
61	168.3	149.7	224.5
98	60.4	50.1	75.1

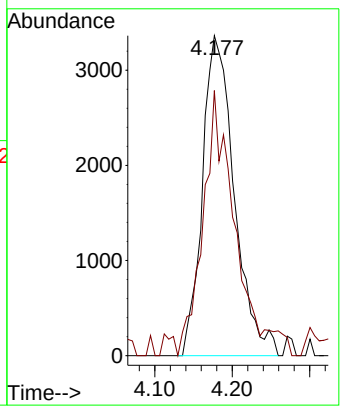




#13
Acrolein
Concen: 24.707 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 56 Resp: 961

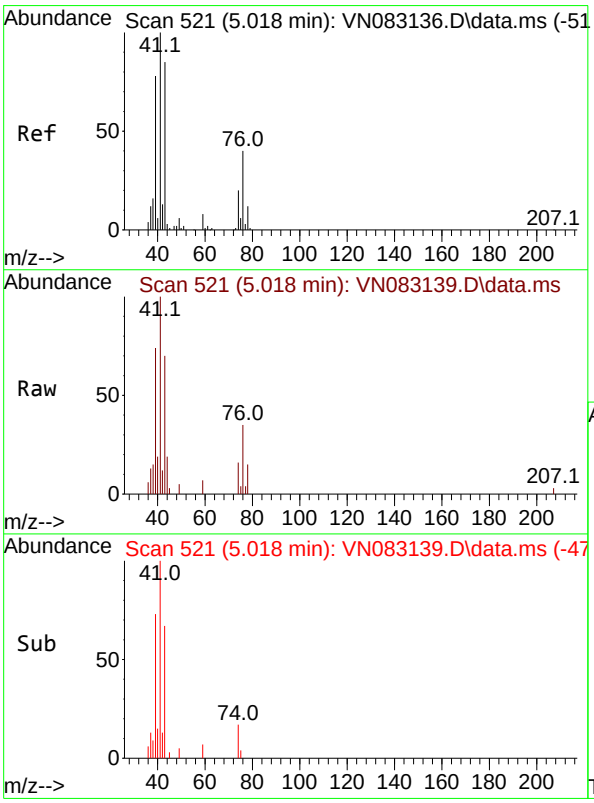
Ion	Ratio	Lower	Upper
56	100		
55	80.0	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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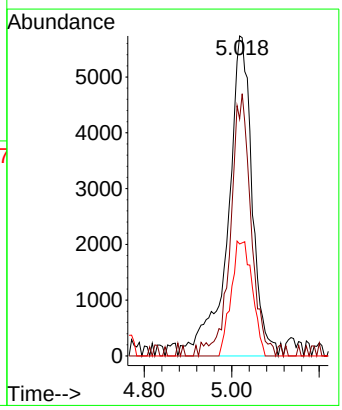
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

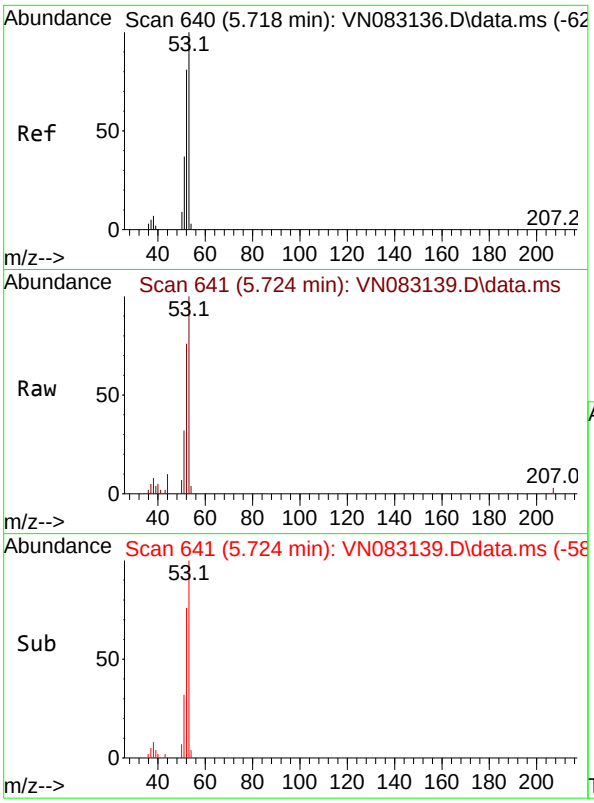


#14
Allyl chloride
Concen: 5.246 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 41 Resp: 22183

Ion	Ratio	Lower	Upper
41	100		
39	69.3	67.8	101.6
76	31.2	25.8	38.8

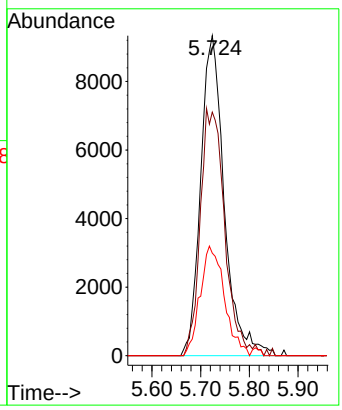




#15
Acrylonitrile
Concen: 25.534 ug/l
RT: 5.724 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 53 Resp: 3135

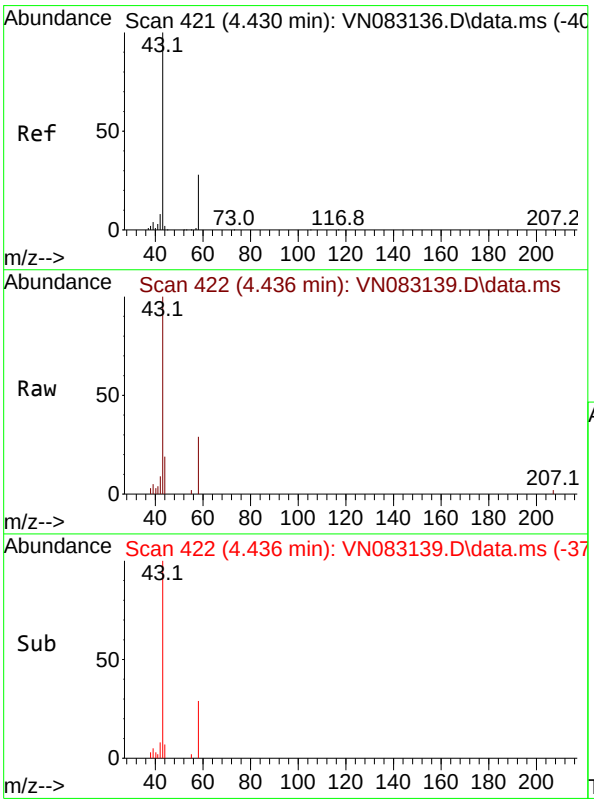
Ion	Ratio	Lower	Upper
53	100		
52	79.9	66.6	100.0
51	35.3	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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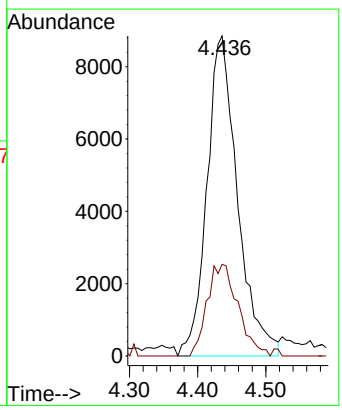
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

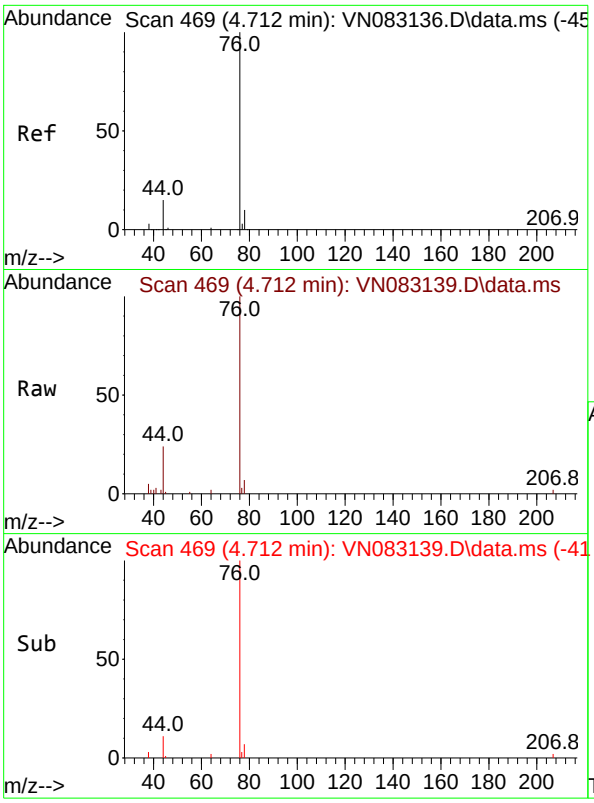


#16
Acetone
Concen: 24.581 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 27636

Ion	Ratio	Lower	Upper
43	100		
58	28.6	21.8	32.6

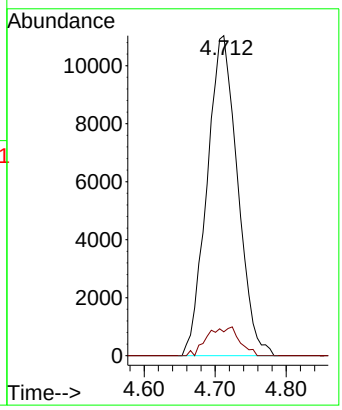




#17
Carbon Disulfide
Concen: 5.026 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 76 Resp: 3290

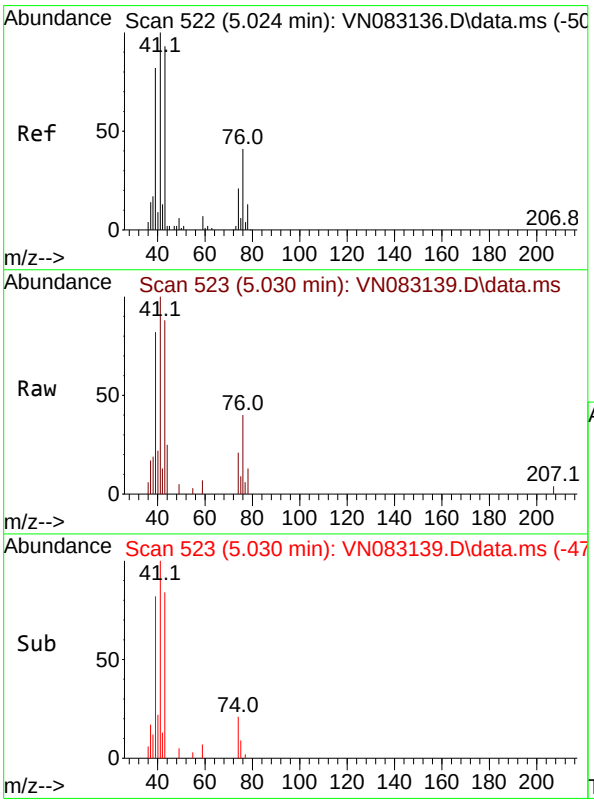
Ion	Ratio	Lower	Upper
76	100		
78	7.4	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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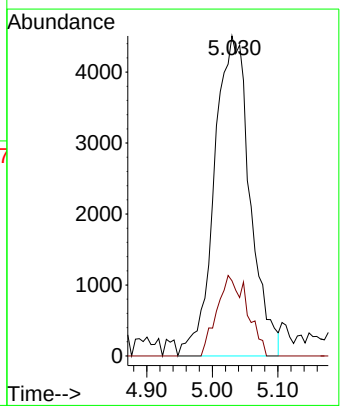
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

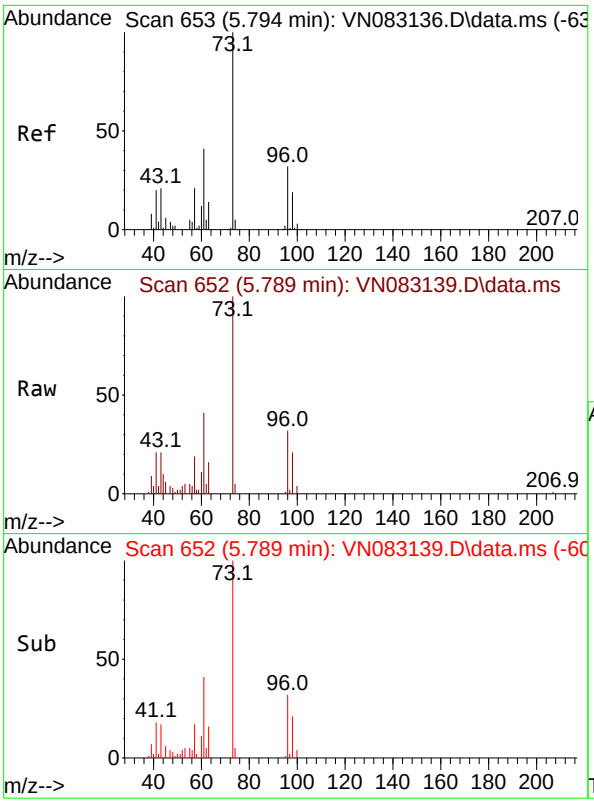


#18
Methyl Acetate
Concen: 5.084 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 17029

Ion	Ratio	Lower	Upper
43	100		
74	21.4	16.3	24.5

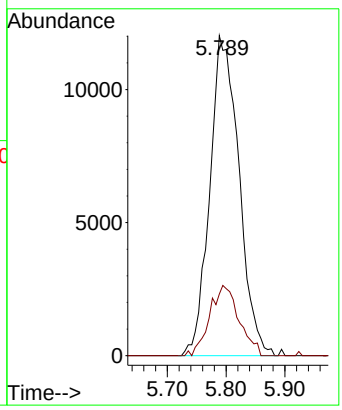




#19
Methyl tert-butyl Ether
Concen: 5.131 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 73 Resp: 4143

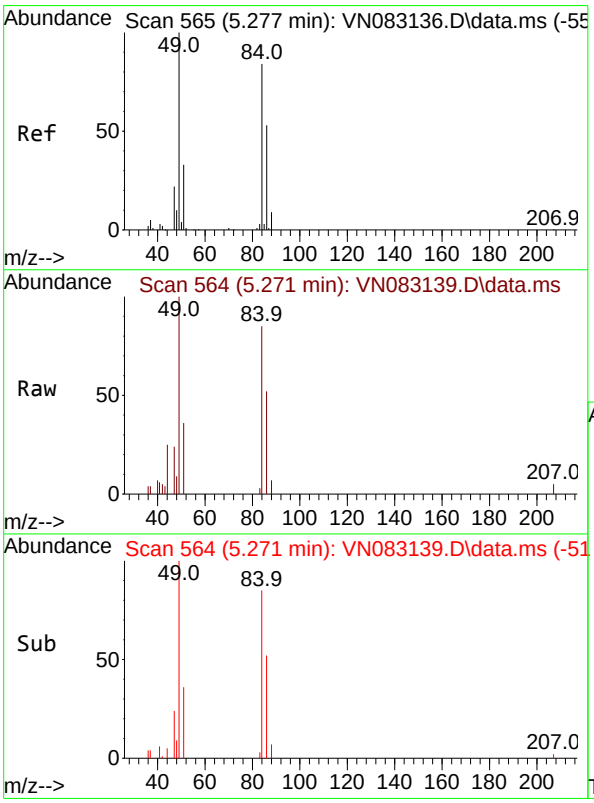
Ion	Ratio	Lower	Upper
73	100		
57	19.2	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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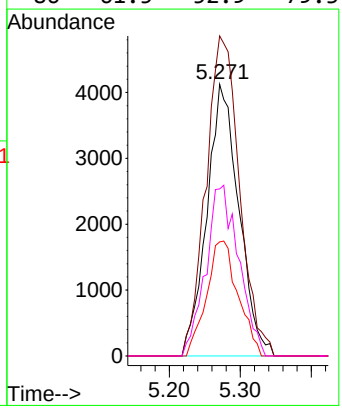
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

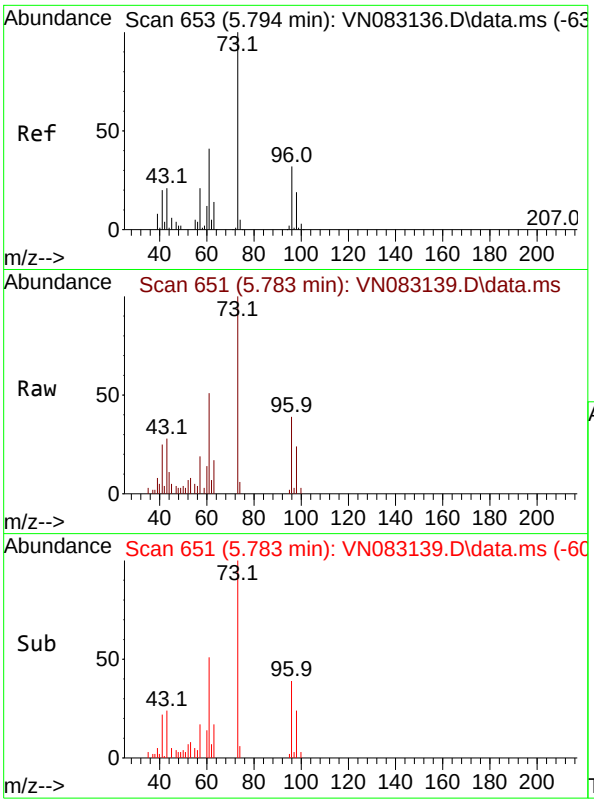


#20
Methylene Chloride
Concen: 4.991 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 84 Resp: 12913

Ion	Ratio	Lower	Upper
84	100		
49	117.8	119.6	179.4#
51	42.0	34.8	52.2
86	61.5	52.9	79.3

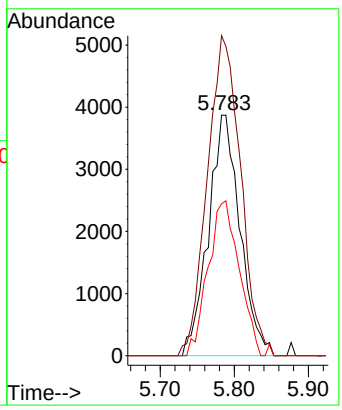




#21
trans-1,2-Dichloroethene
Concen: 4.957 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 96 Resp: 1146

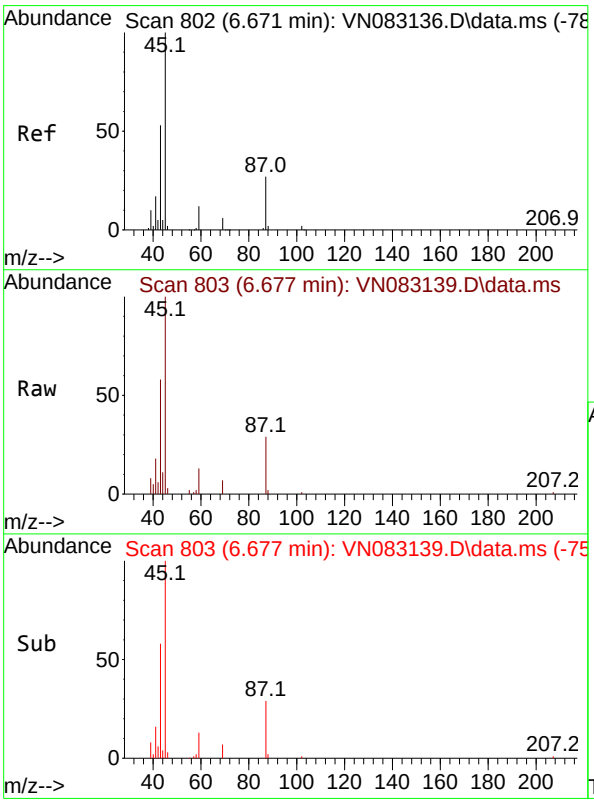
Ion	Ratio	Lower	Upper
96	100		
61	133.0	123.4	185.2
98	63.1	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

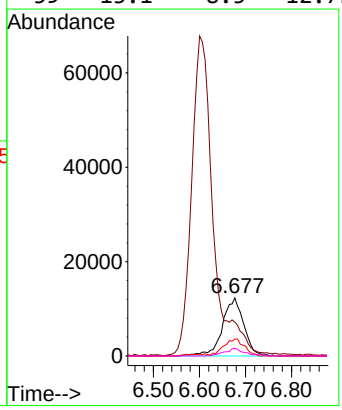
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

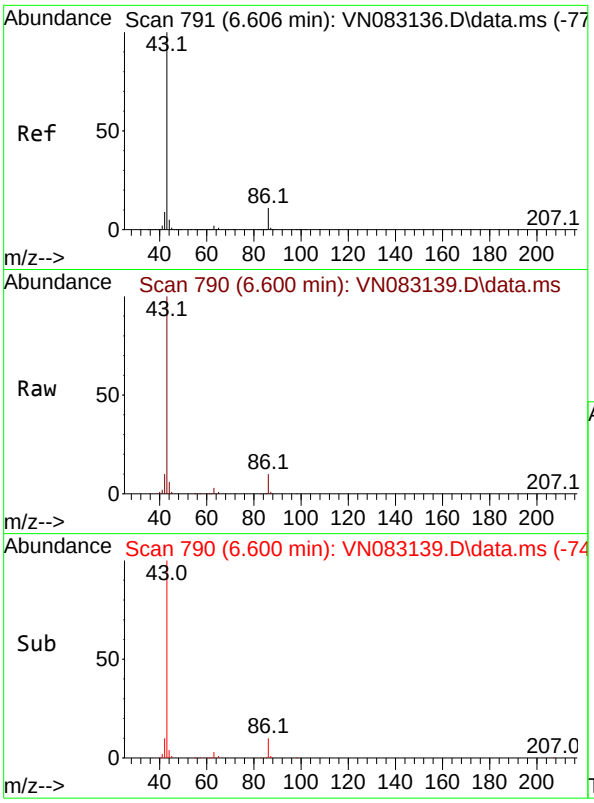


#22
Diisopropyl ether
Concen: 4.993 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 45 Resp: 39688

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

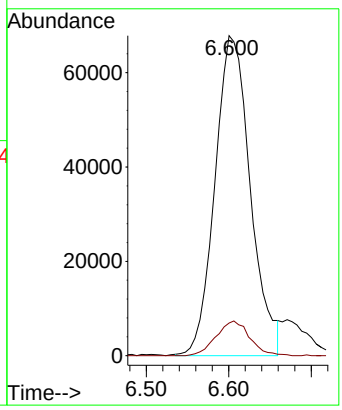




#23
Vinyl Acetate
Concen: 24.856 ug/l m
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 20247

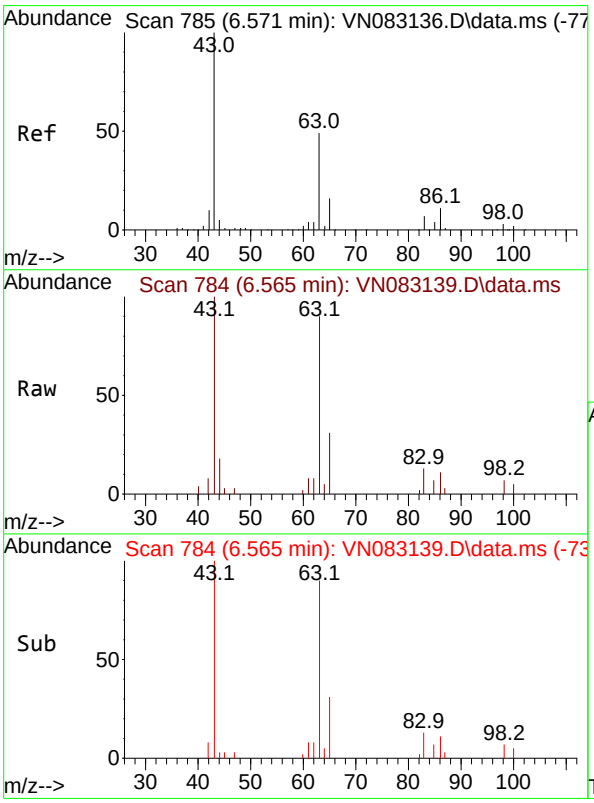
Ion	Ratio	Lower	Upper
43	100		
86	10.2	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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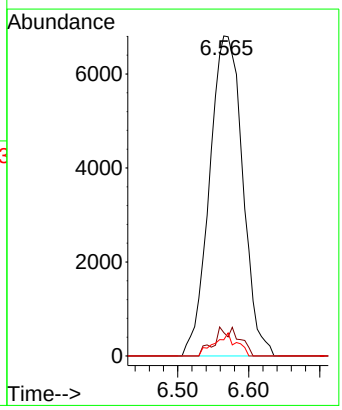
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

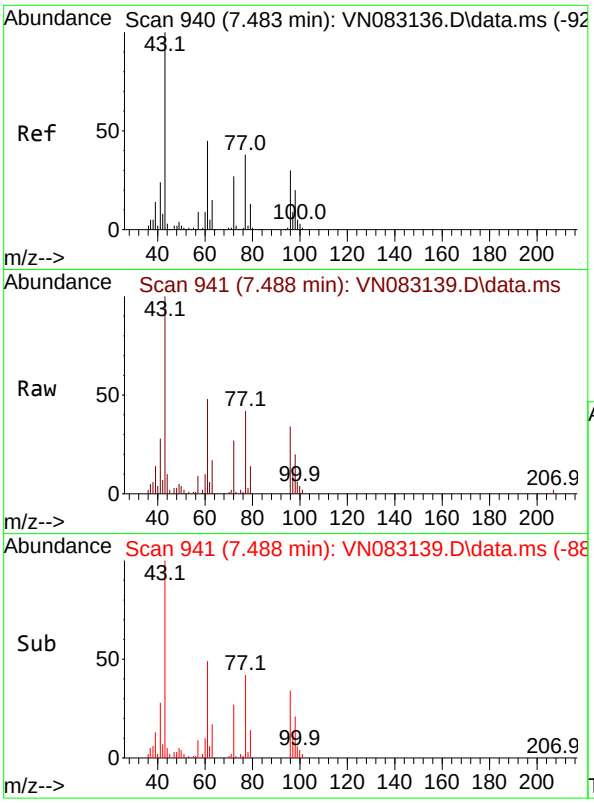


#24
1,1-Dichloroethane
Concen: 5.091 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 63 Resp: 22058

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.3	9.9
100	5.0	2.0	6.0





#25
2-Butanone
Concen: 24.185 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

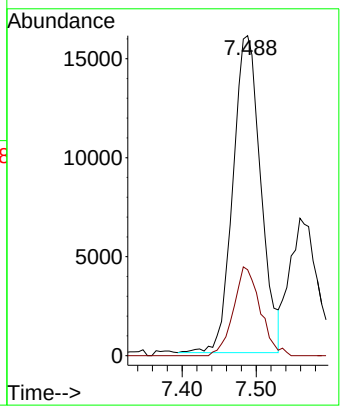
Tgt Ion: 43 Resp: 4175

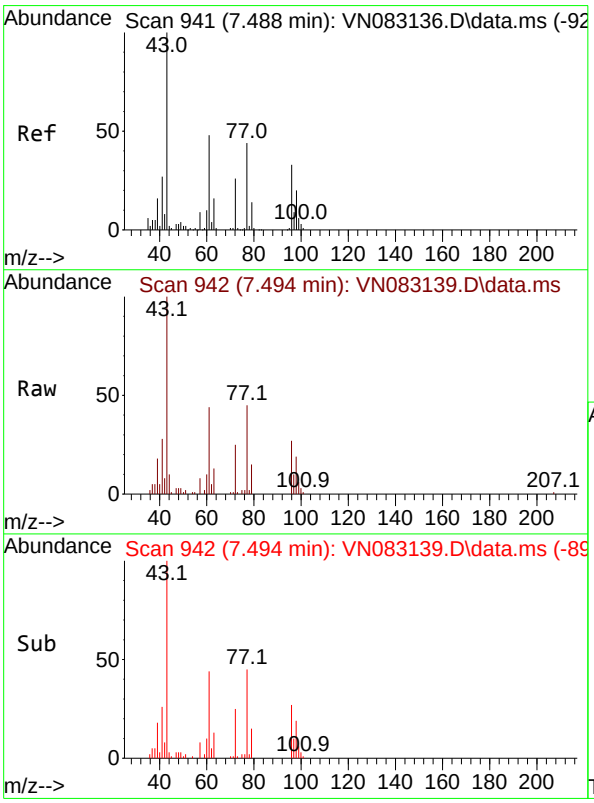
Ion	Ratio	Lower	Upper
43	100		
72	27.1	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

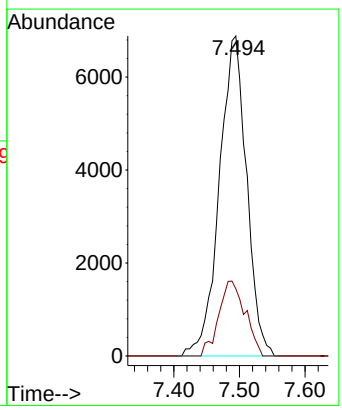


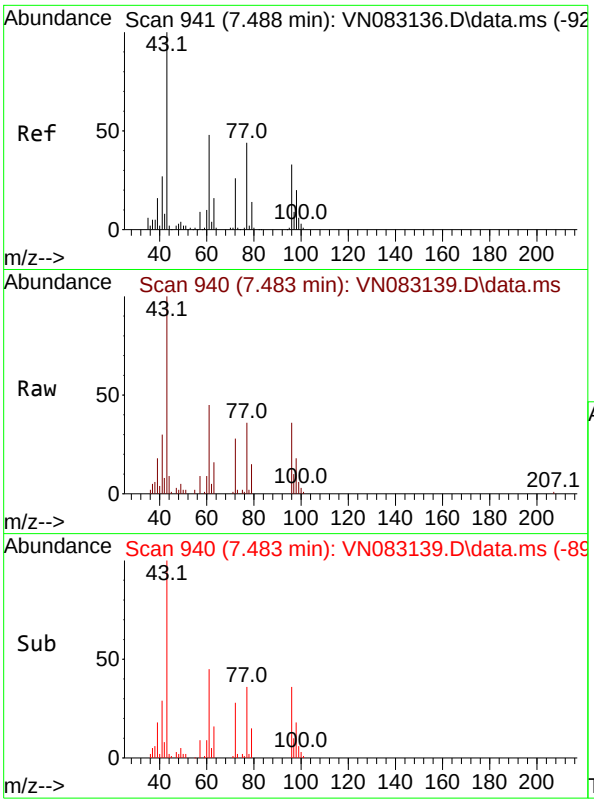


#26
2,2-Dichloropropane
Concen: 4.937 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 77 Resp: 19864

Ion	Ratio	Lower	Upper
77	100		
97	22.7	10.3	30.9

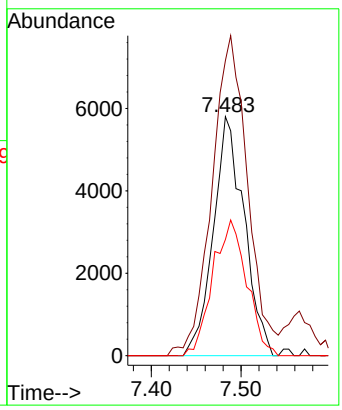




#27
cis-1,2-Dichloroethene
Concen: 4.967 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 96 Resp: 1386

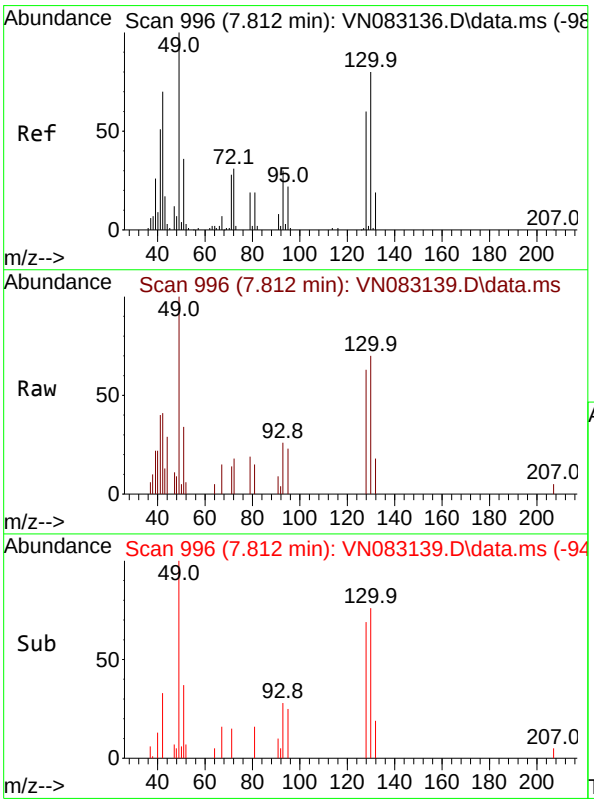
Ion	Ratio	Lower	Upper
96	100		
61	154.7	0.0	329.6
98	62.6	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

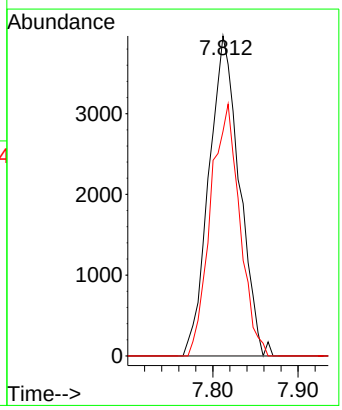
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

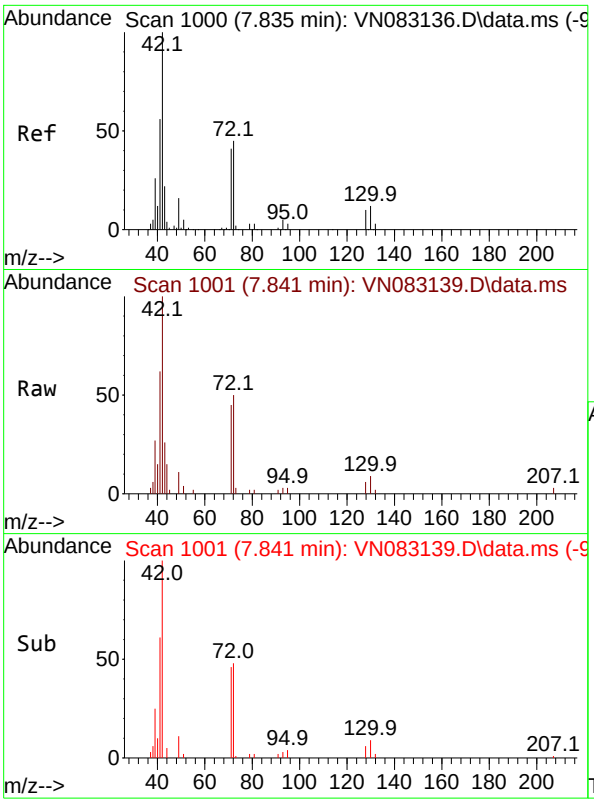


#28
Bromochloromethane
Concen: 5.577 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 49 Resp: 9874

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	75.2	50.5	75.7

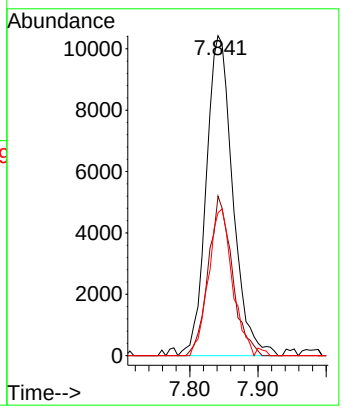




#29
Tetrahydrofuran
Concen: 25.324 ug/l
RT: 7.841 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 42 Resp: 2826(

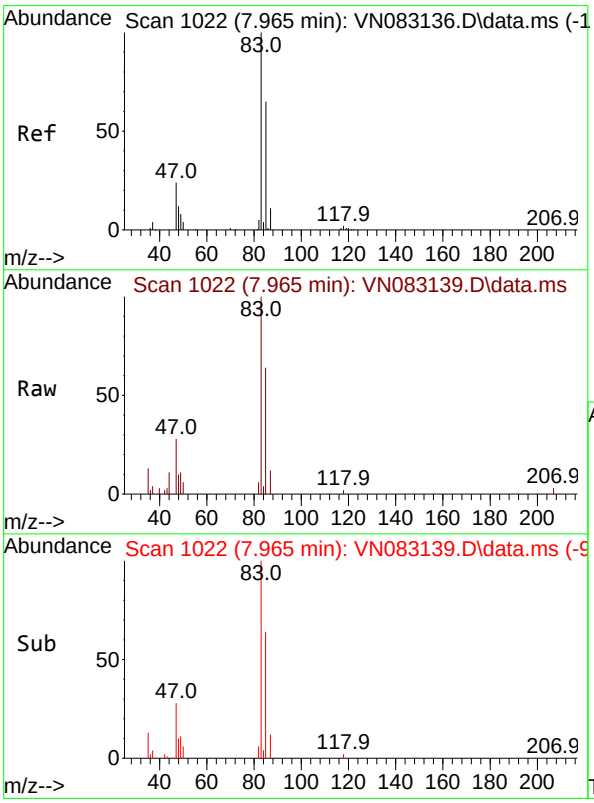
Ion	Ratio	Lower	Upper
42	100		
72	44.9	30.0	45.0
71	41.3	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

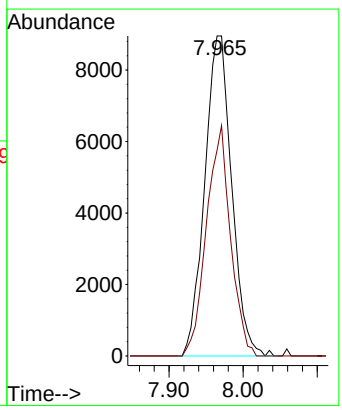
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

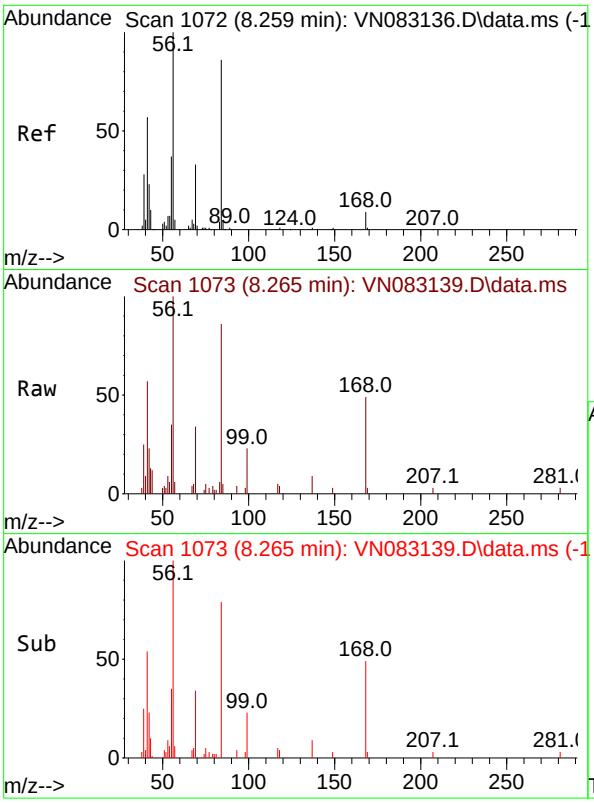


#30
Chloroform
Concen: 5.032 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 83 Resp: 22650

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.9	76.3

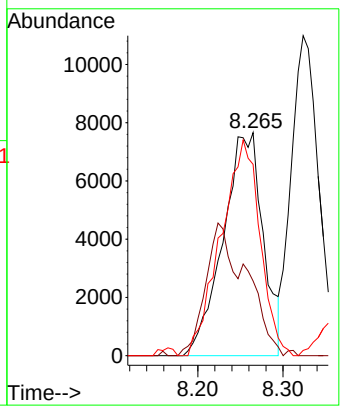




#31
Cyclohexane
Concen: 5.871 ug/l
RT: 8.265 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 56 Resp: 2499

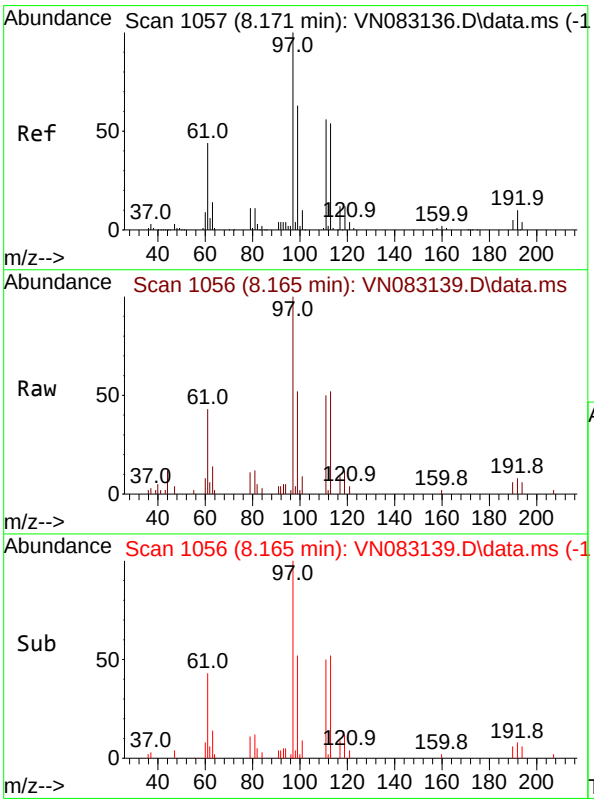
Ion	Ratio	Lower	Upper
56	100		
69	33.5	24.5	36.7
84	85.8	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

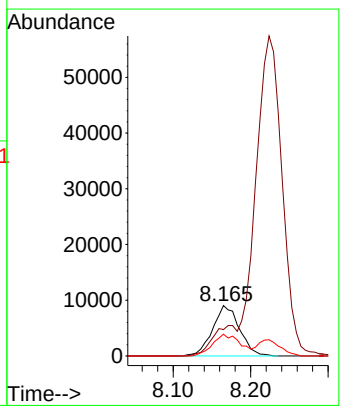
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

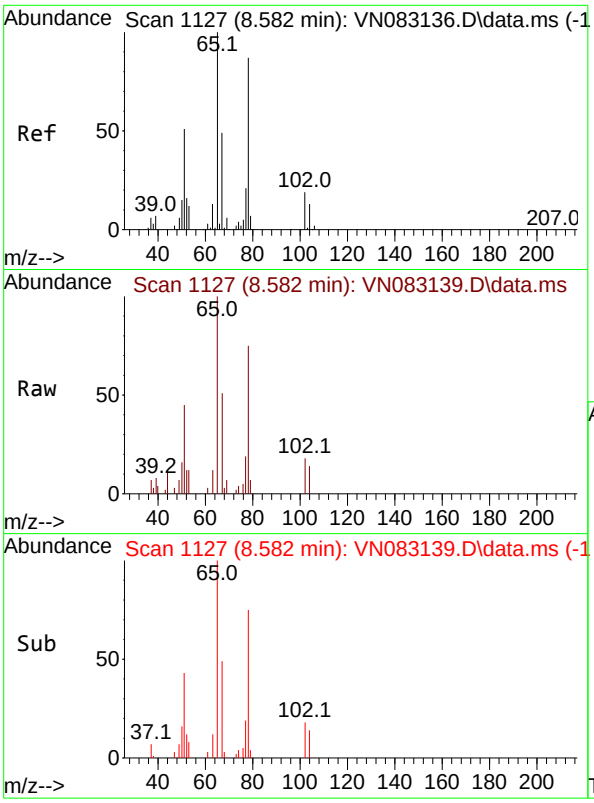


#32
1,1,1-Trichloroethane
Concen: 5.123 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 97 Resp: 21825

Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.0	78.0#
61	44.1	42.1	63.1

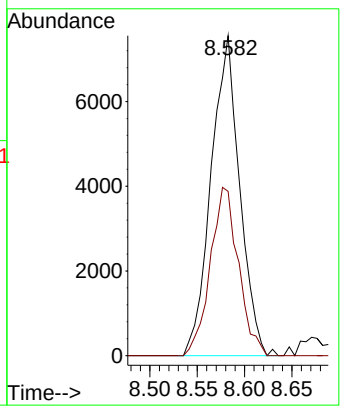




#33
1,2-Dichloroethane-d4
Concen: 5.522 ug/l
RT: 8.582 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 65 Resp: 1586

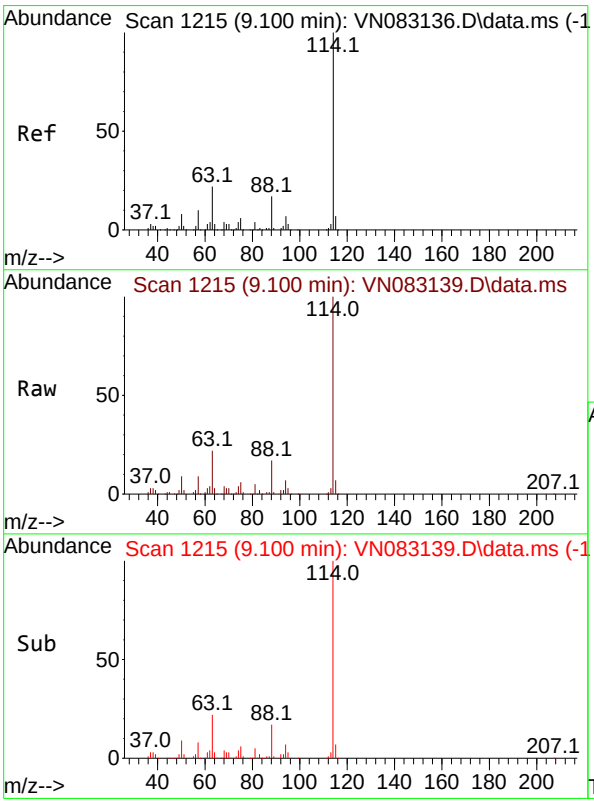
Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

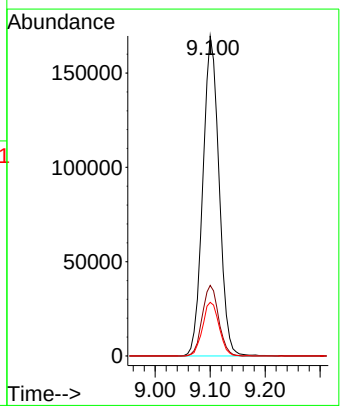
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

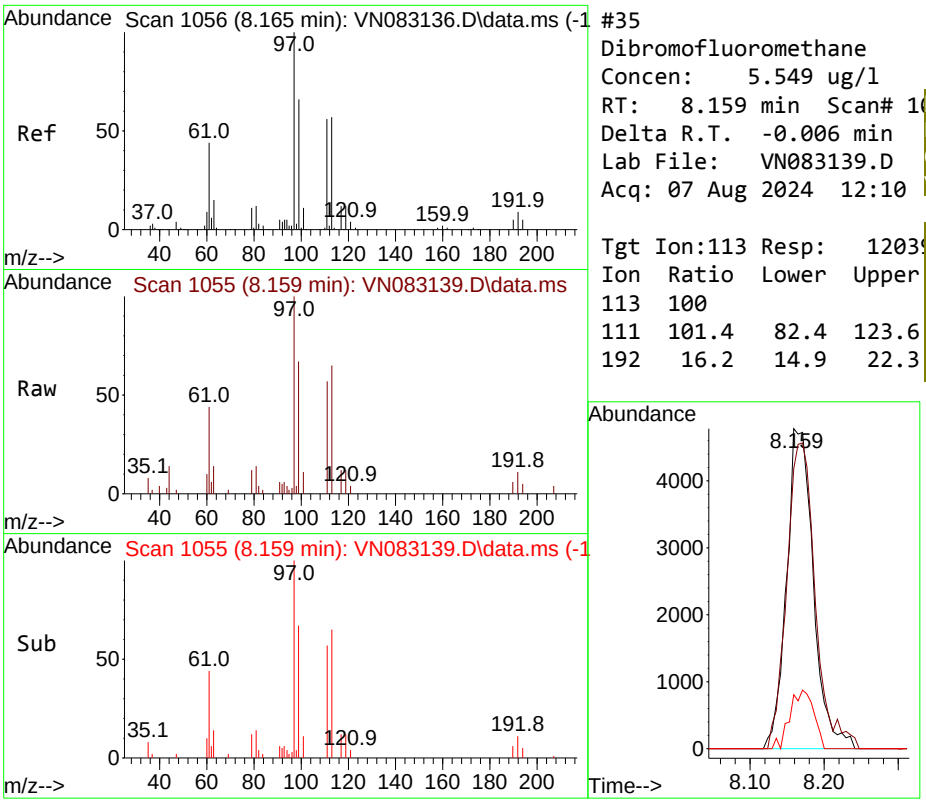


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:114 Resp: 347562

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.6
88	16.8	0.0	31.4





#35
Dibromofluoromethane
Concen: 5.549 ug/l
RT: 8.159 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

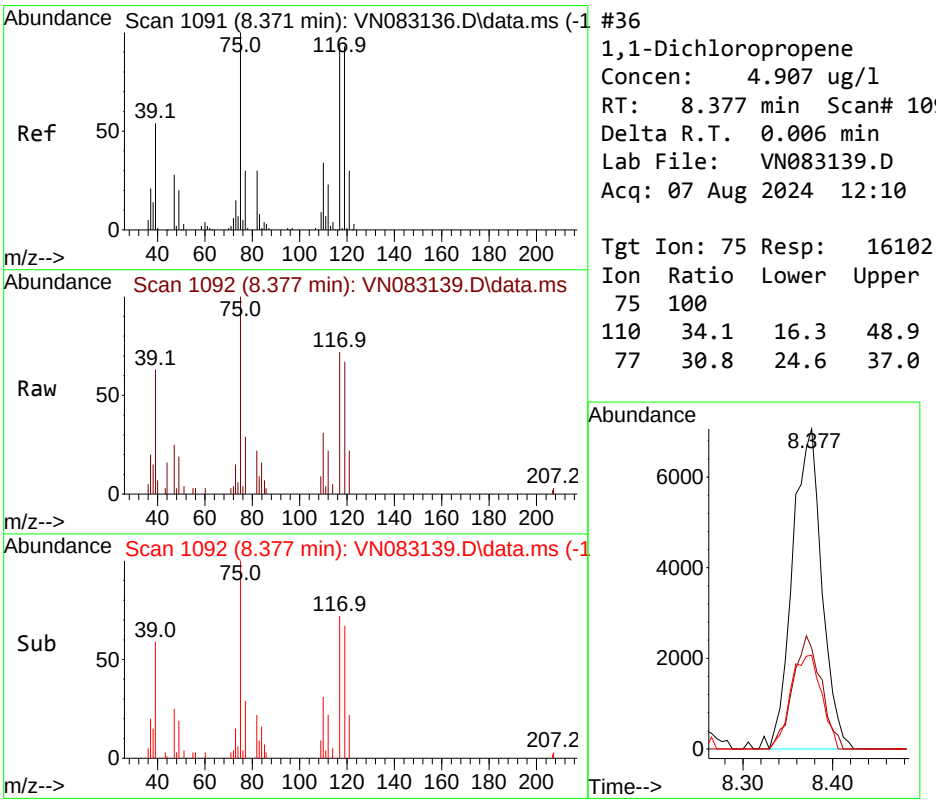
Tgt Ion:113 Resp: 1203

Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.4	123.6
192	16.2	14.9	22.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

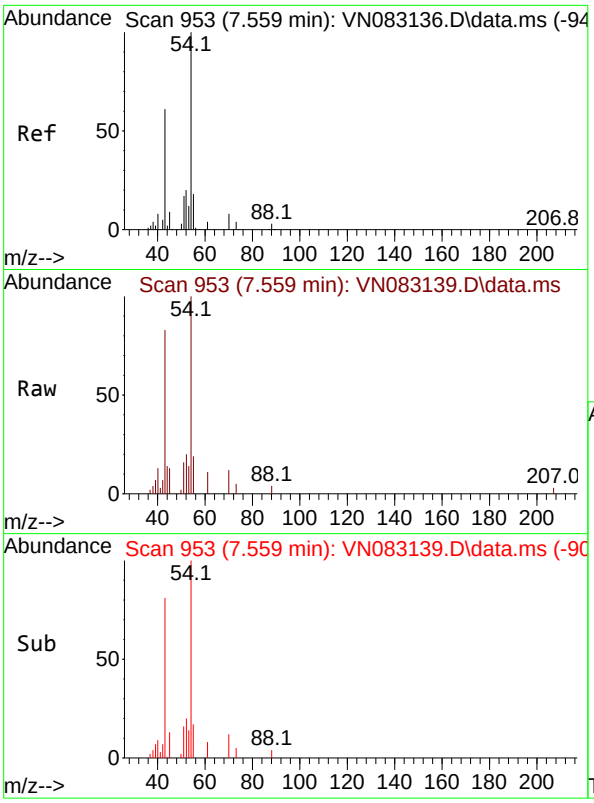
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#36
1,1-Dichloropropene
Concen: 4.907 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 16102

Ion	Ratio	Lower	Upper
75	100		
110	34.1	16.3	48.9
77	30.8	24.6	37.0



#37
Ethyl Acetate
Concen: 4.874 ug/l
RT: 7.559 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

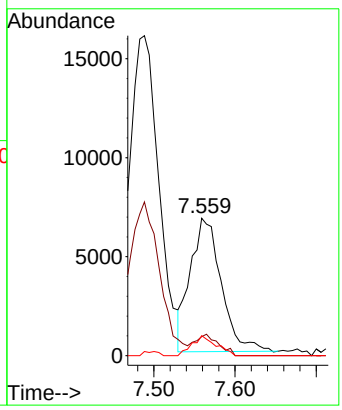
Tgt Ion: 43 Resp: 1790

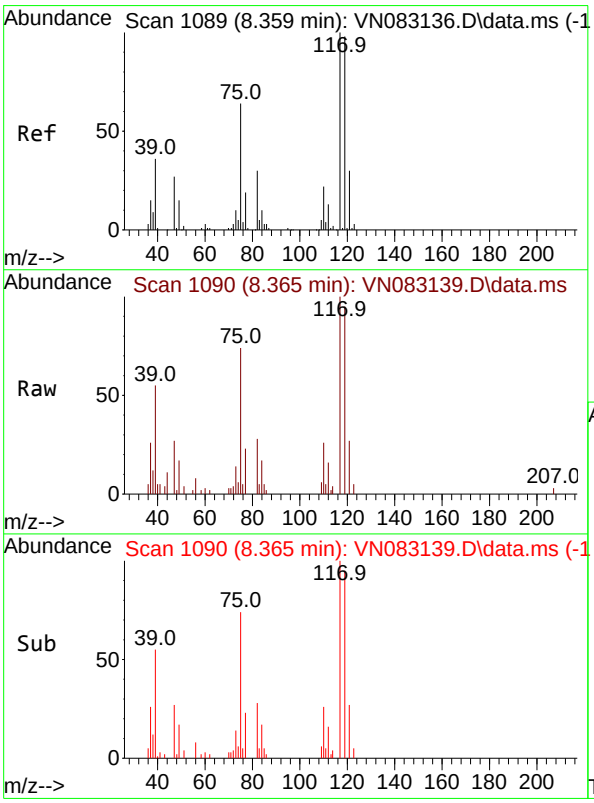
Ion	Ratio	Lower	Upper
43	100		
61	12.1	9.3	13.9
70	11.6	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

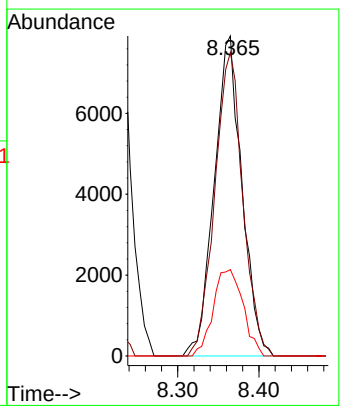


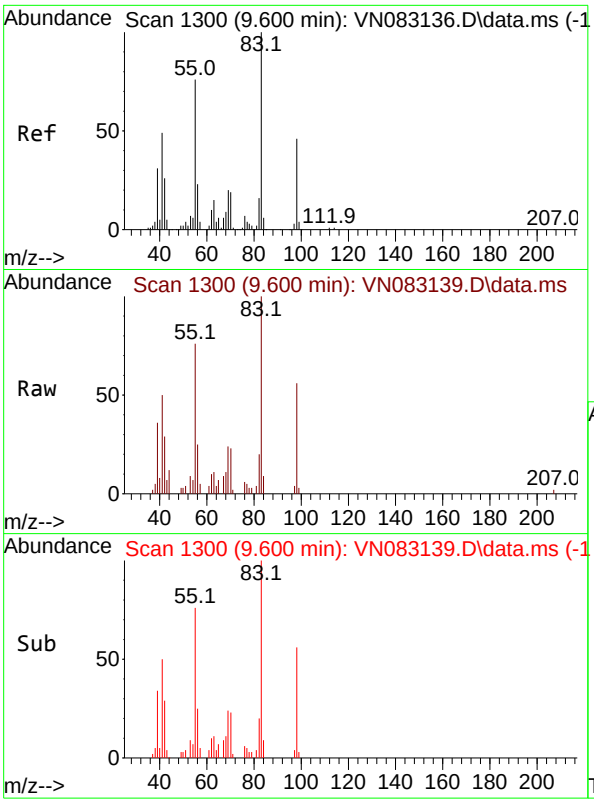


#38
Carbon Tetrachloride
Concen: 5.067 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:117 Resp: 18728

Ion	Ratio	Lower	Upper
117	100		
119	94.8	74.9	112.3
121	27.0	24.3	36.5

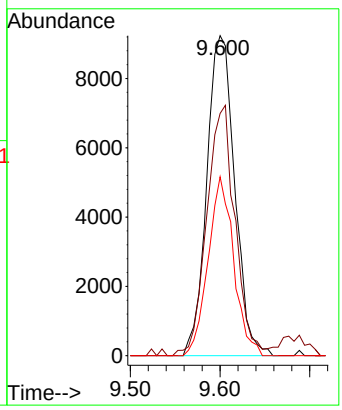




#39
Methylcyclohexane
Concen: 4.957 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 83 Resp: 1998

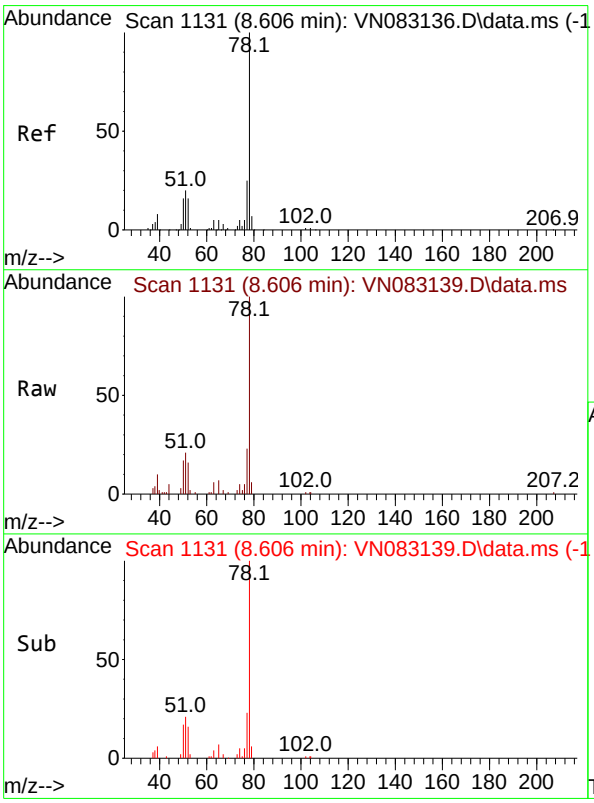
Ion	Ratio	Lower	Upper
83	100		
55	74.1	66.4	99.6
98	55.9	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

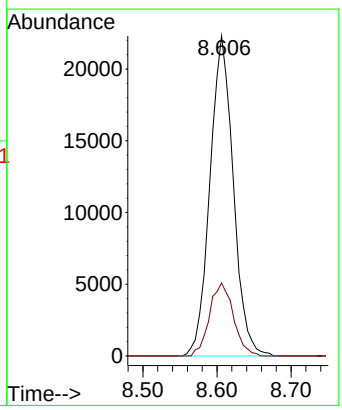
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

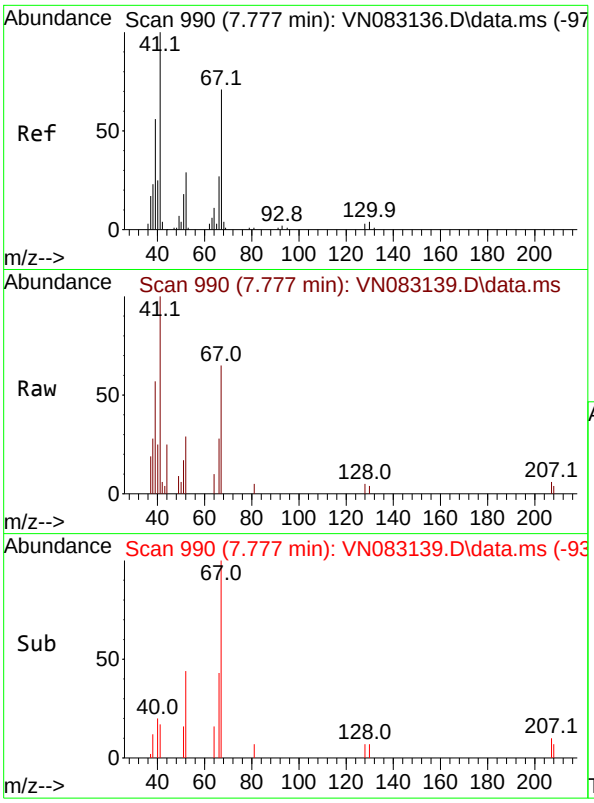


#40
Benzene
Concen: 4.988 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 78 Resp: 48765

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.0	28.4

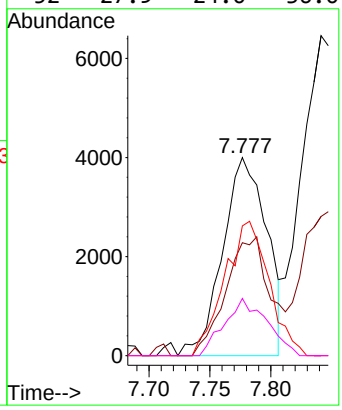




#41
Methacrylonitrile
Concen: 4.828 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 41 Resp: 1008

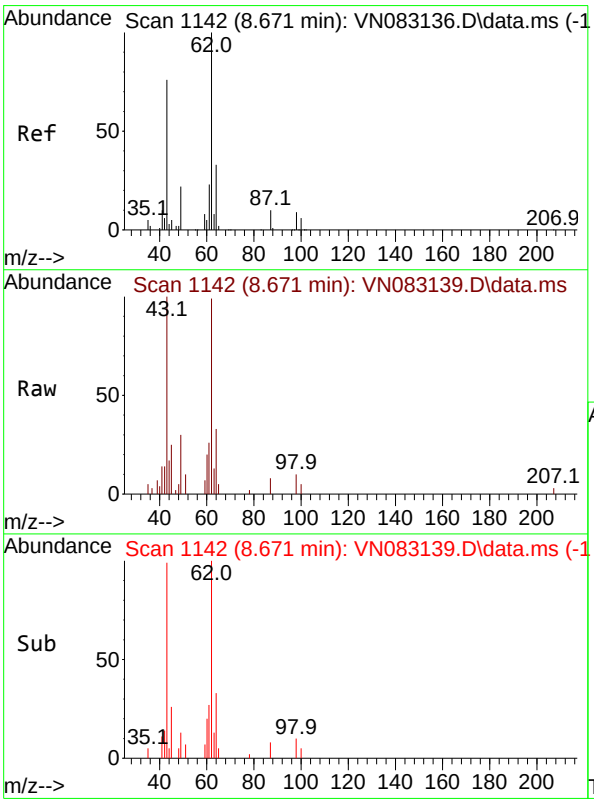
Ion	Ratio	Lower	Upper
41	100		
39	60.2	45.5	68.3
67	68.2	50.5	75.7
52	27.9	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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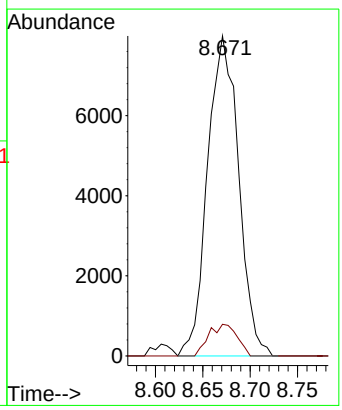
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

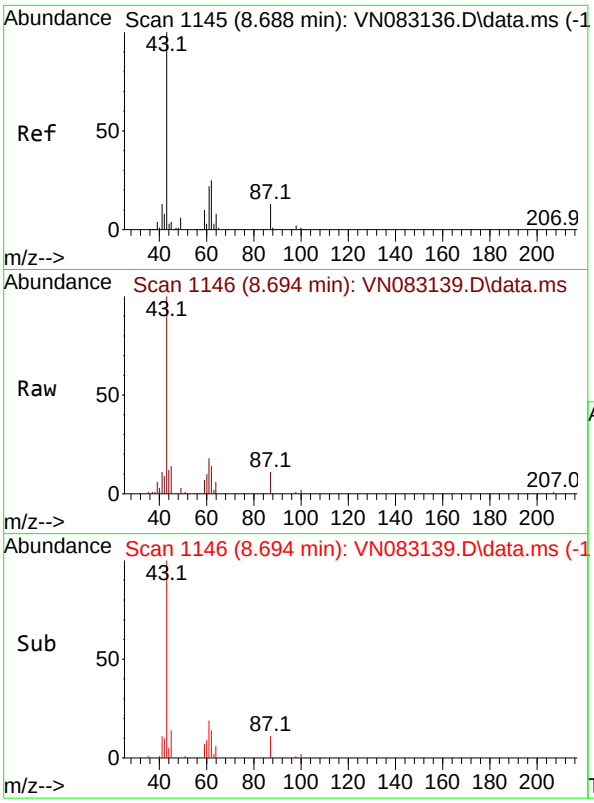


#42
1,2-Dichloroethane
Concen: 5.116 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 62 Resp: 18219

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	15.8





#43
Isopropyl Acetate
Concen: 5.438 ug/l
RT: 8.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

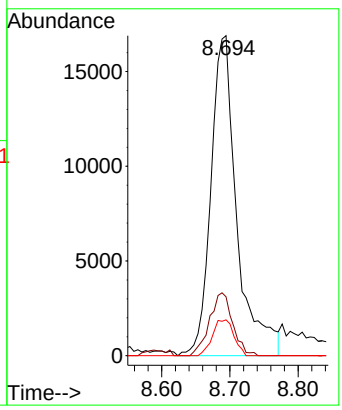
Tgt Ion: 43 Resp: 4481

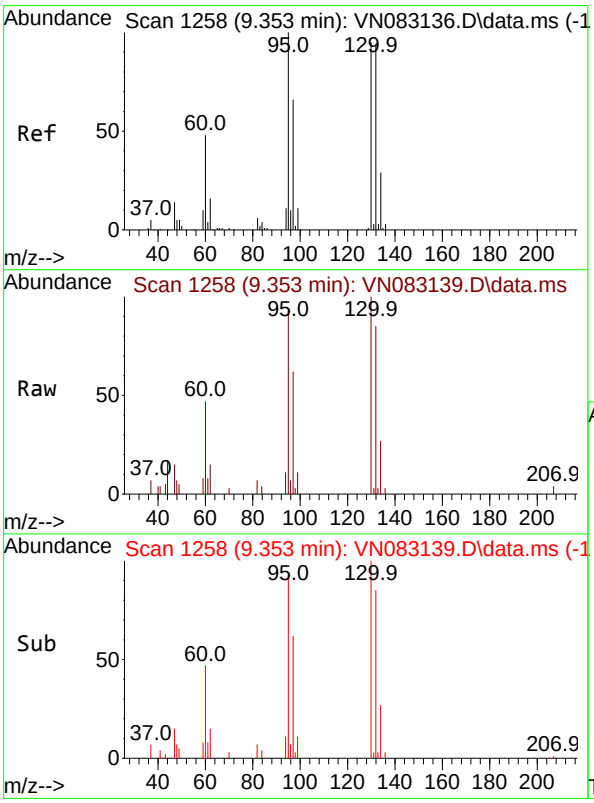
Ion	Ratio	Lower	Upper
43	100		
61	17.5	17.8	26.6
87	9.2	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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

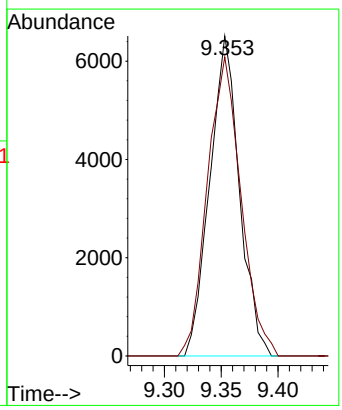


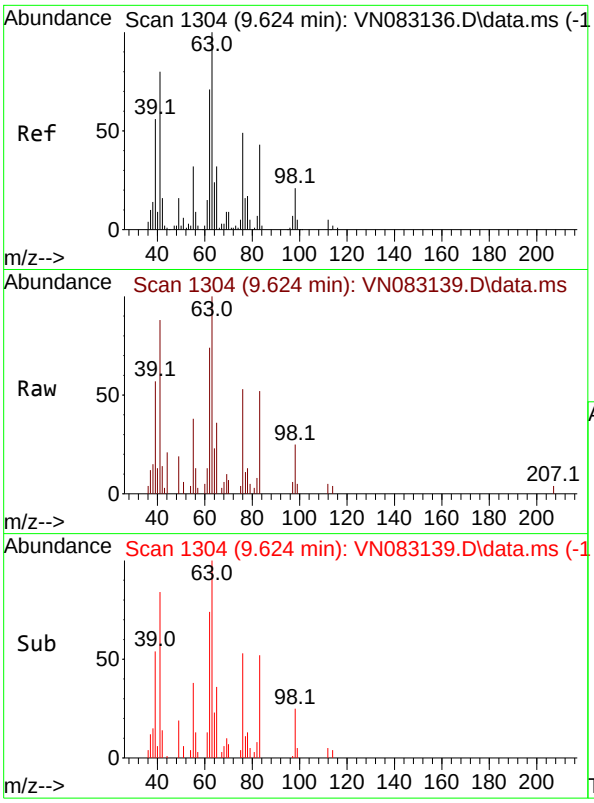


#44
Trichloroethene
Concen: 5.084 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:130 Resp: 11830

Ion	Ratio	Lower	Upper
130	100		
95	93.4	0.0	197.8

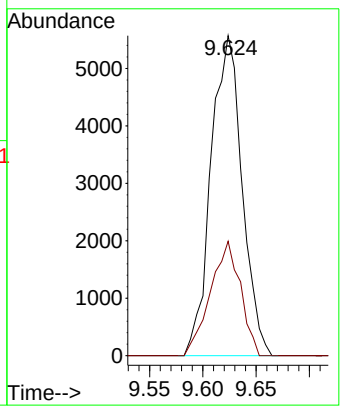




#45
1,2-Dichloropropane
Concen: 4.878 ug/l
RT: 9.624 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 63 Resp: 1132

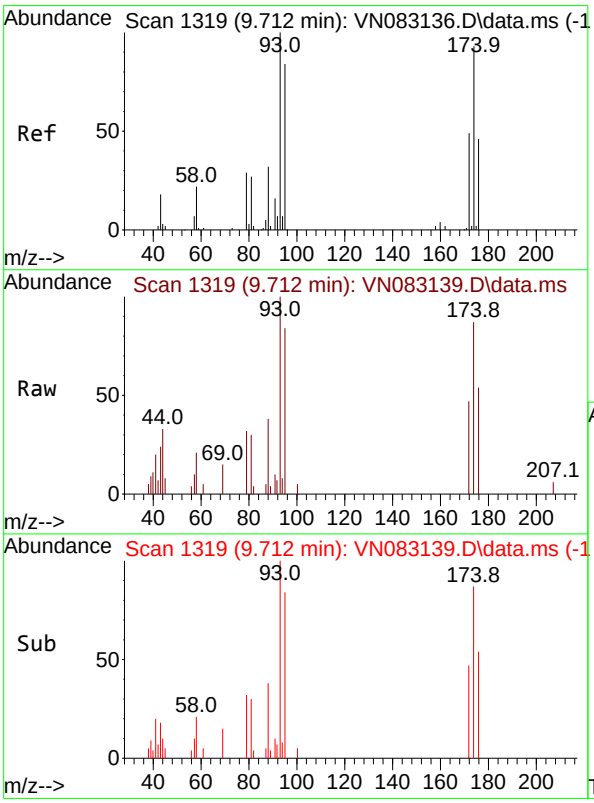
Ion	Ratio	Lower	Upper
63	100		
65	35.7	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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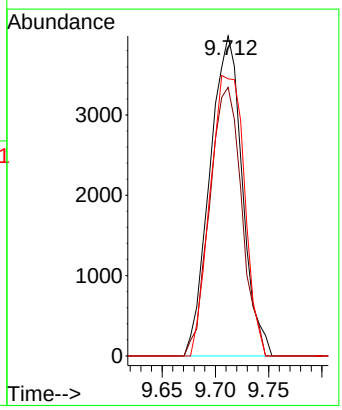
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

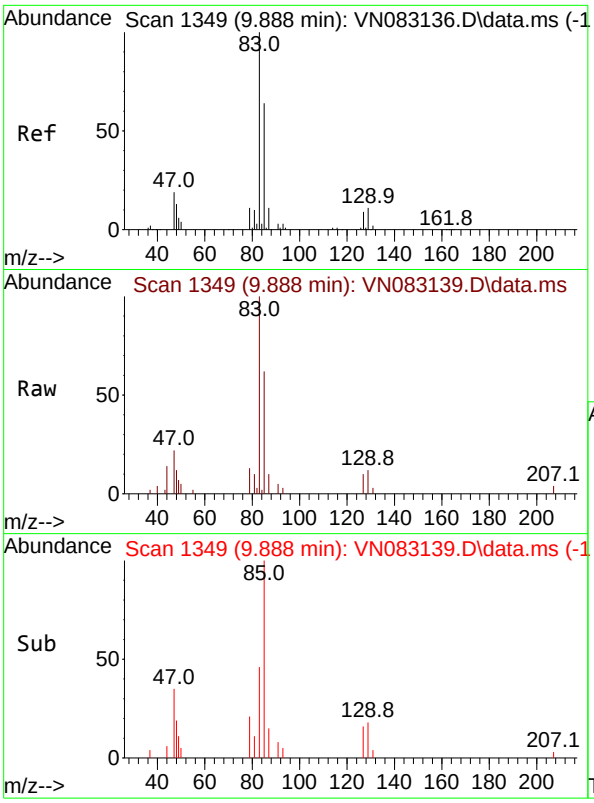


#46
Dibromomethane
Concen: 5.079 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 93 Resp: 8436

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.8	98.6
174	92.2	71.7	107.5





#47
Bromodichloromethane
Concen: 5.040 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

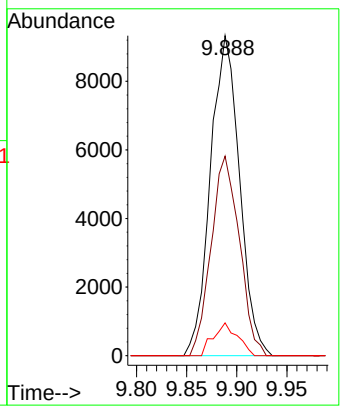
Tgt Ion: 83 Resp: 1879

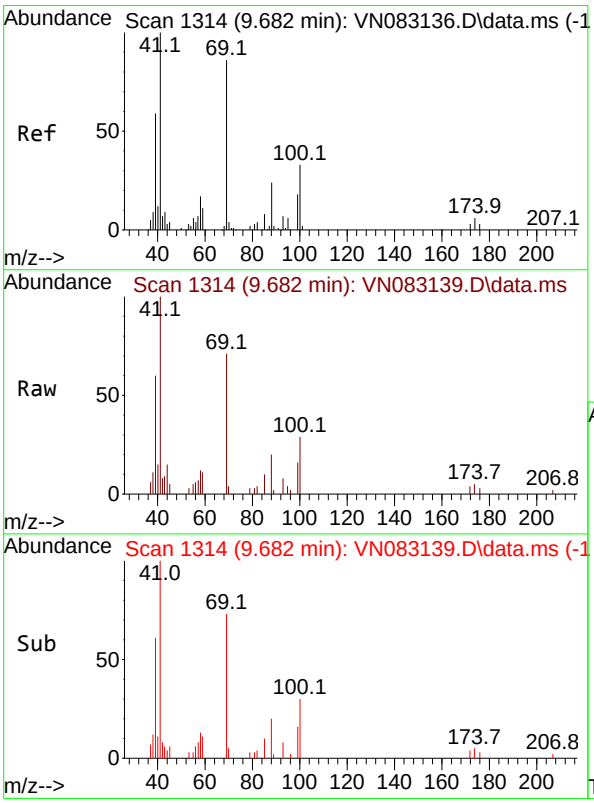
Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.1	76.7
127	10.3	7.2	10.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

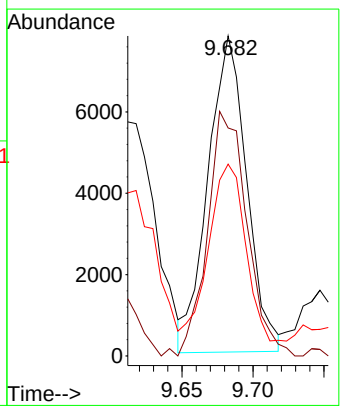


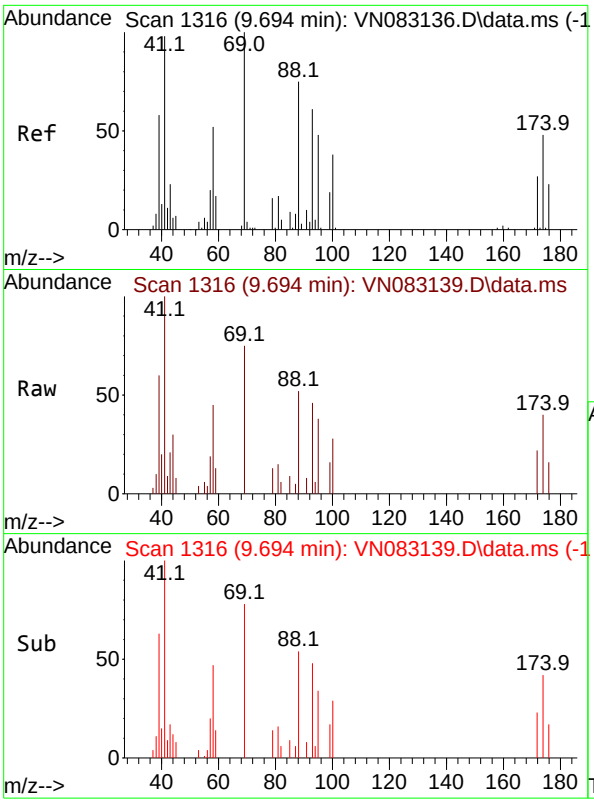


#48
Methyl methacrylate
Concen: 4.840 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 41 Resp: 14704

Ion	Ratio	Lower	Upper
41	100		
69	79.2	56.3	84.5
39	63.9	50.3	75.5

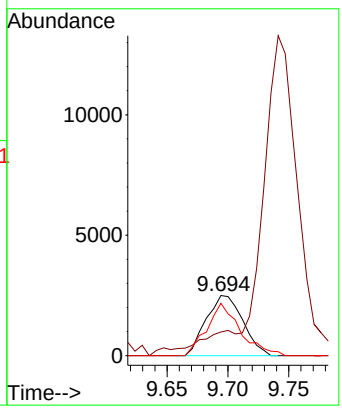




#49
1,4-Dioxane
Concen: 95.593 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 88 Resp: 523

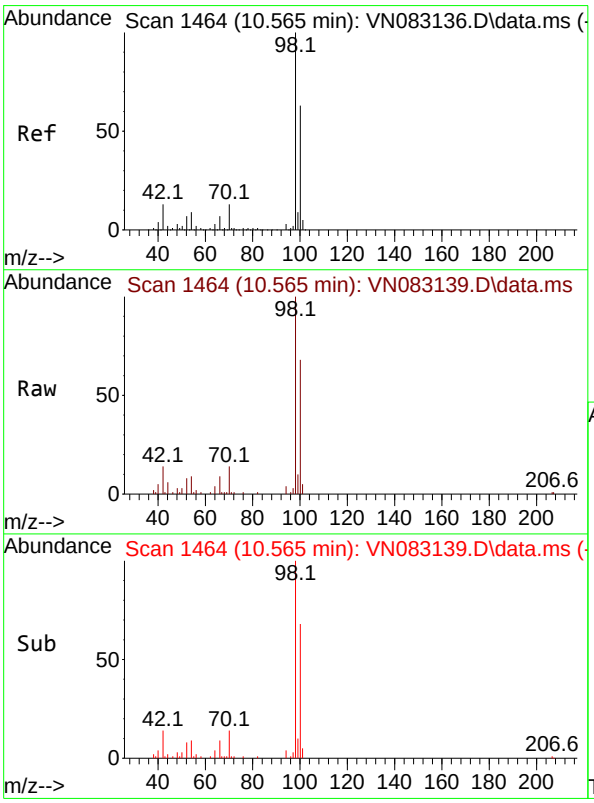
Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.8
58	79.3	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

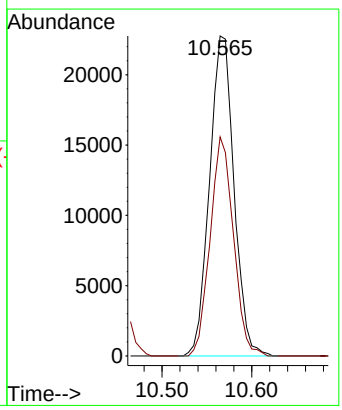
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

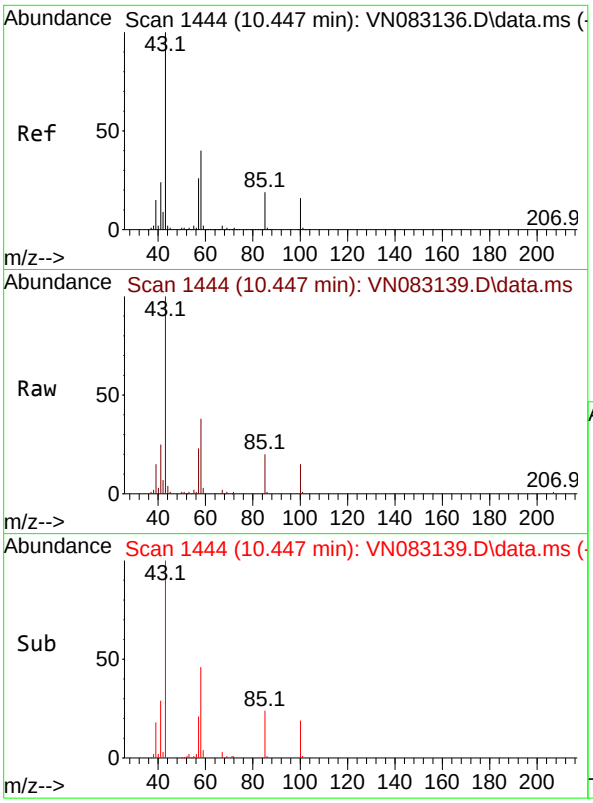


#50
Toluene-d8
Concen: 5.326 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 98 Resp: 43104

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.5	77.3

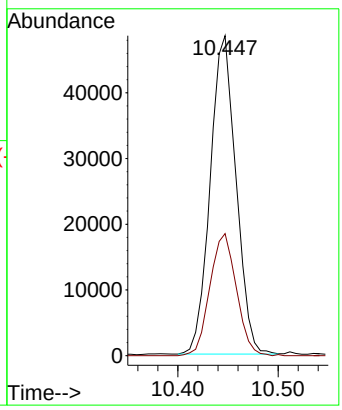




#51
4-Methyl-2-Pentanone
Concen: 24.946 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 8667

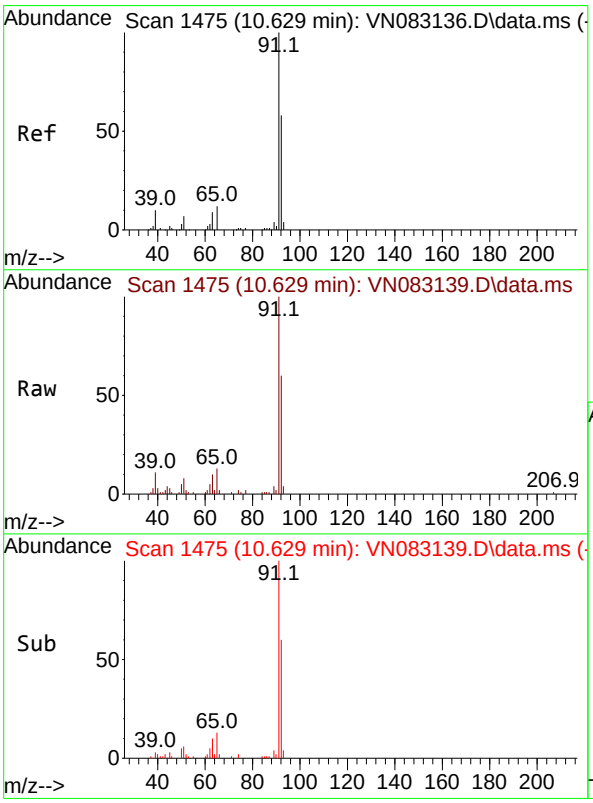
Ion	Ratio	Lower	Upper
43	100		
58	39.3	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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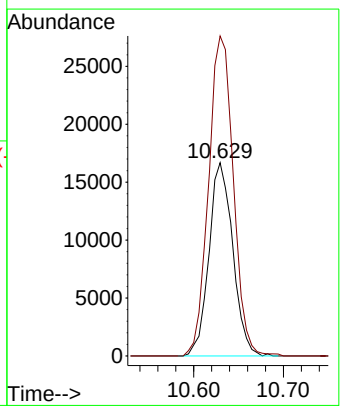
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

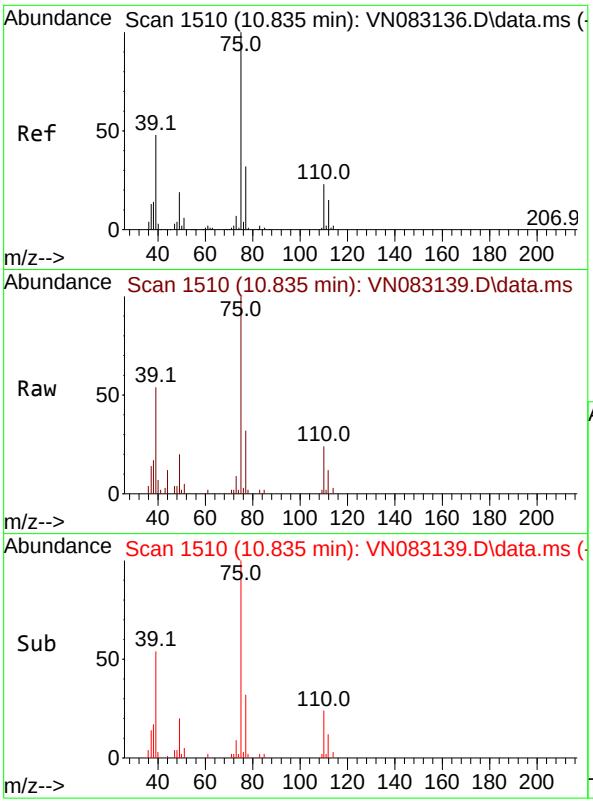


#52
Toluene
Concen: 4.981 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 92 Resp: 30769

Ion	Ratio	Lower	Upper
92	100		
91	172.3	139.4	209.0

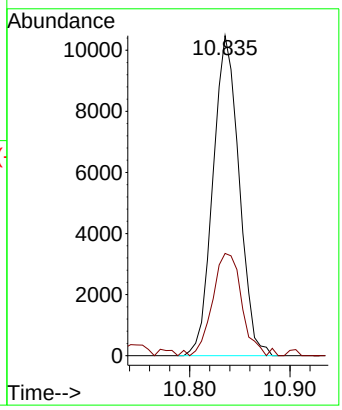




#53
t-1,3-Dichloropropene
Concen: 4.950 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 1896

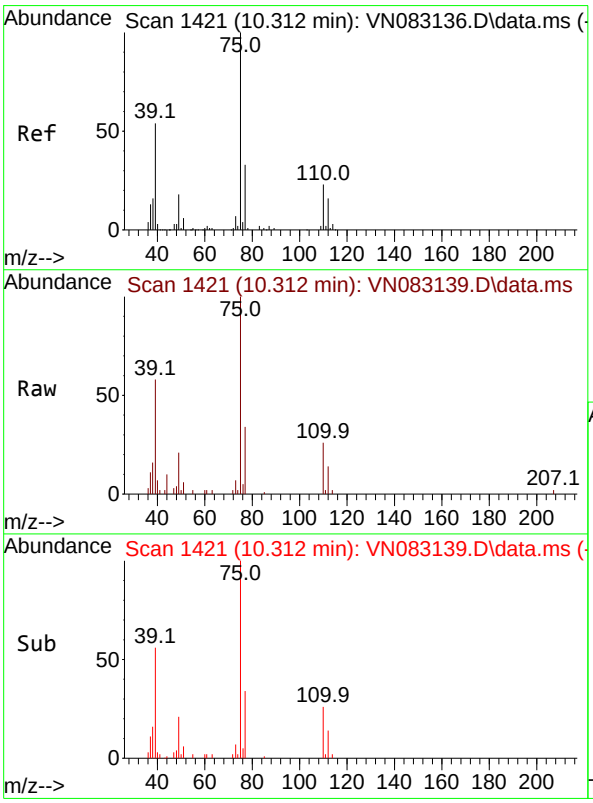
Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

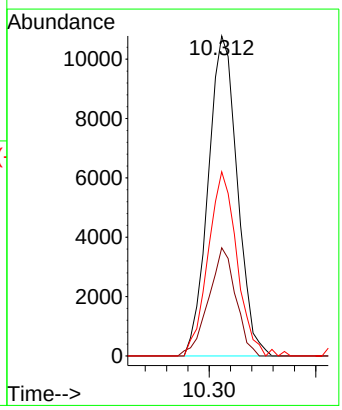
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

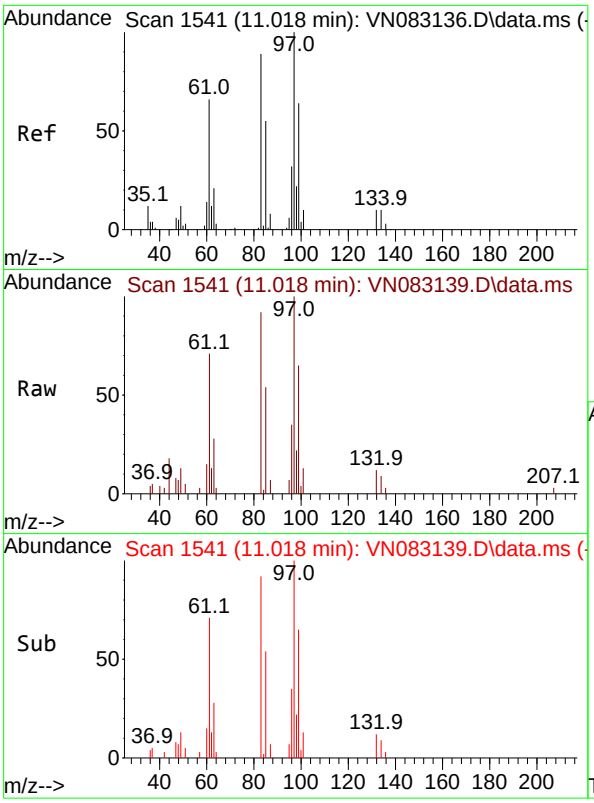


#54
cis-1,3-Dichloropropene
Concen: 5.014 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 20431

Ion	Ratio	Lower	Upper
75	100		
77	33.8	24.3	36.5
39	57.5	50.5	75.7

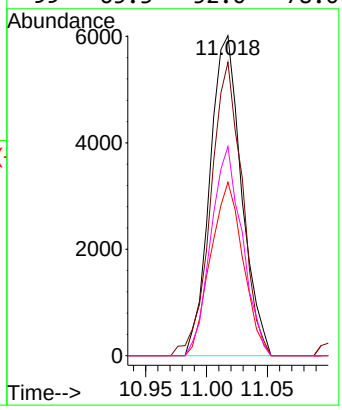




#55
1,1,2-Trichloroethane
Concen: 4.930 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 97 Resp: 1091

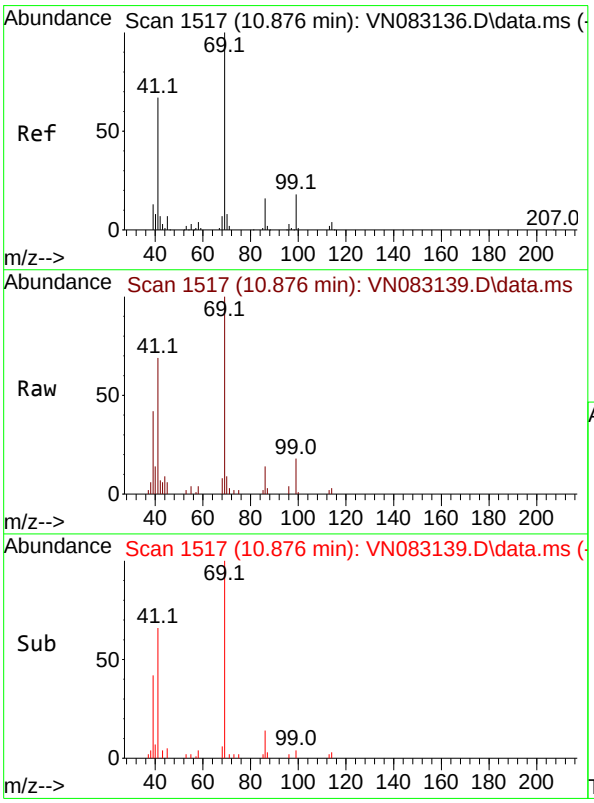
Ion	Ratio	Lower	Upper
97	100		
83	91.7	71.4	107.0
85	54.2	45.8	68.6
99	65.3	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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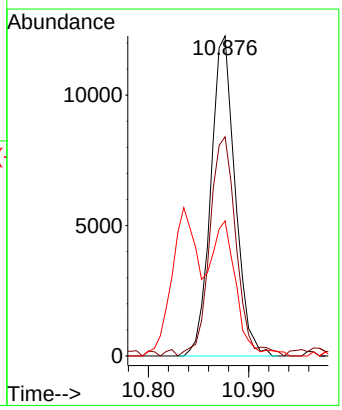
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

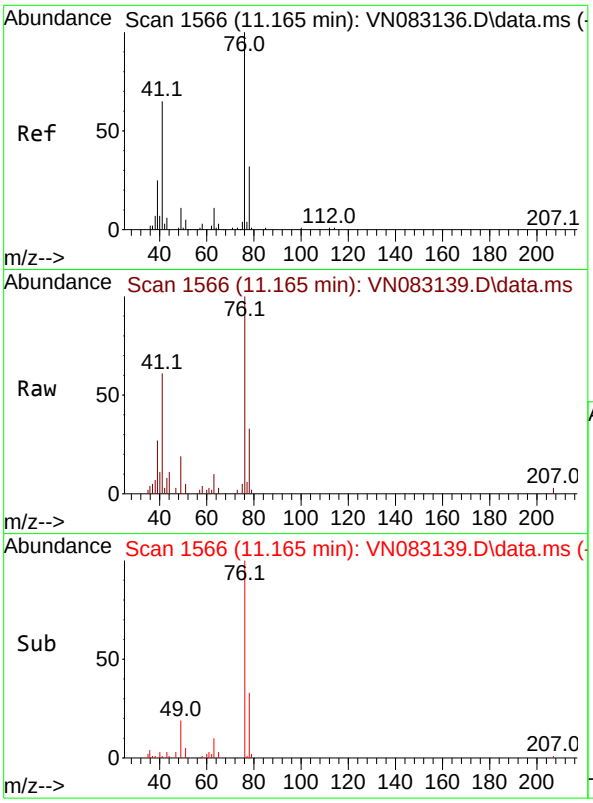


#56
Ethyl methacrylate
Concen: 4.951 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 69 Resp: 20661

Ion	Ratio	Lower	Upper
69	100		
41	74.3	63.4	95.2
39	39.8	37.4	56.0

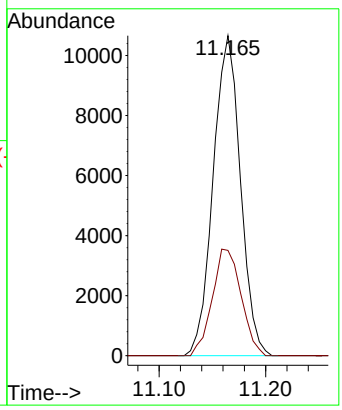




#57
1,3-Dichloropropane
Concen: 4.799 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 76 Resp: 1893

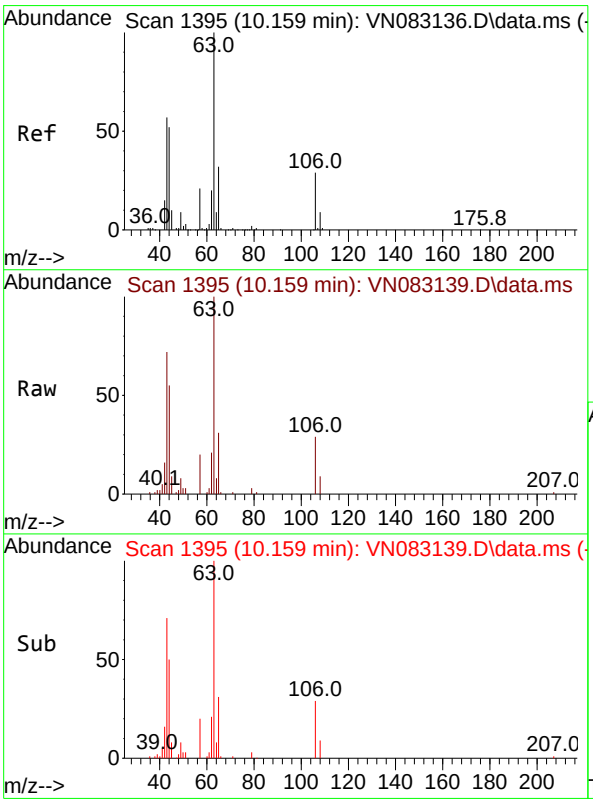
Ion	Ratio	Lower	Upper
76	100		
78	35.3	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

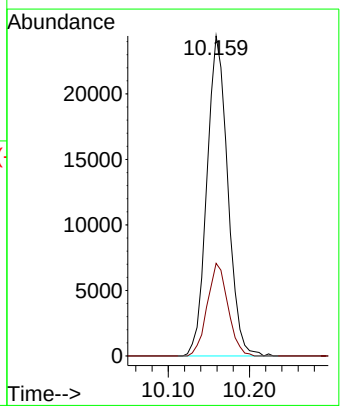
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

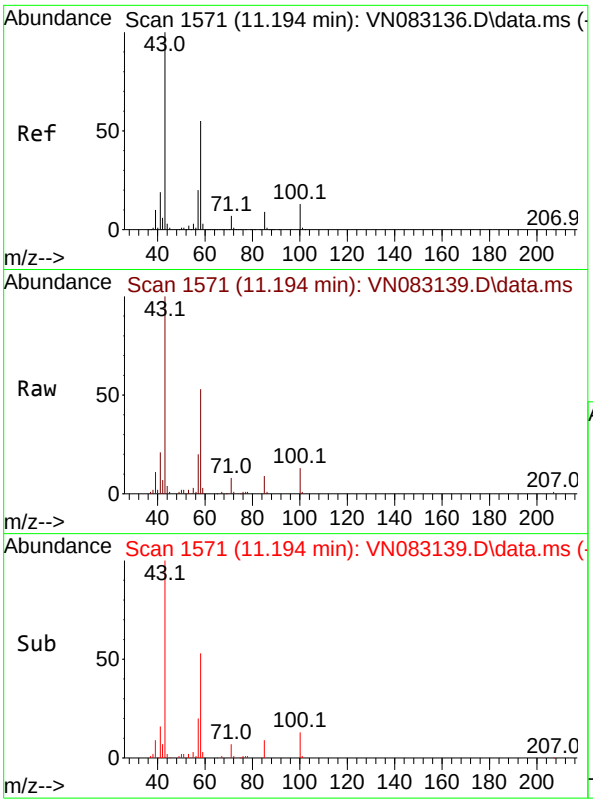


#58
2-Chloroethyl Vinyl ether
Concen: 24.676 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 63 Resp: 43528

Ion	Ratio	Lower	Upper
63	100		
106	28.8	21.4	32.0





#59
2-Hexanone
Concen: 24.870 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

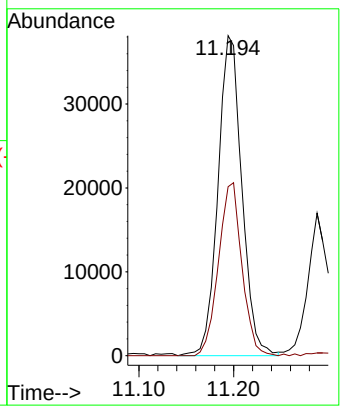
Tgt Ion: 43 Resp: 6685

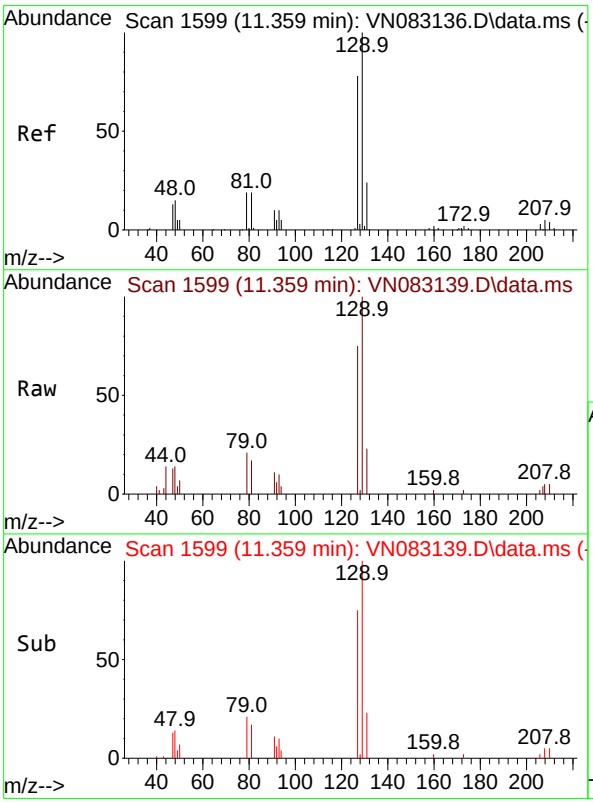
Ion	Ratio	Lower	Upper
43	100		
58	52.9	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

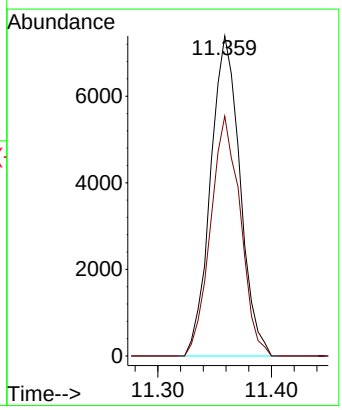


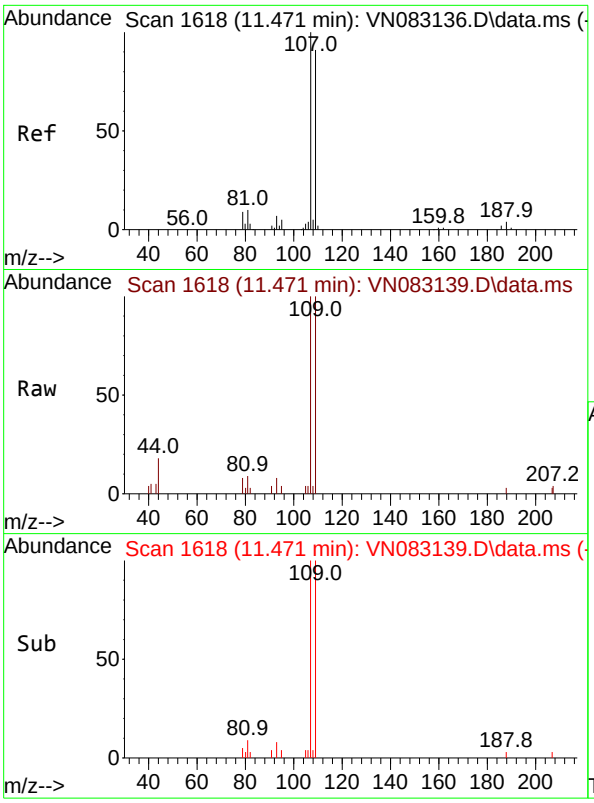


#60
Dibromochloromethane
Concen: 4.972 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:129 Resp: 13307

Ion	Ratio	Lower	Upper
129	100		
127	75.6	39.2	117.6





#61
1,2-Dibromoethane
Concen: 4.955 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

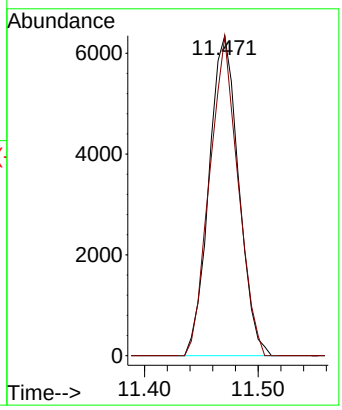
Tgt Ion:107 Resp: 1152

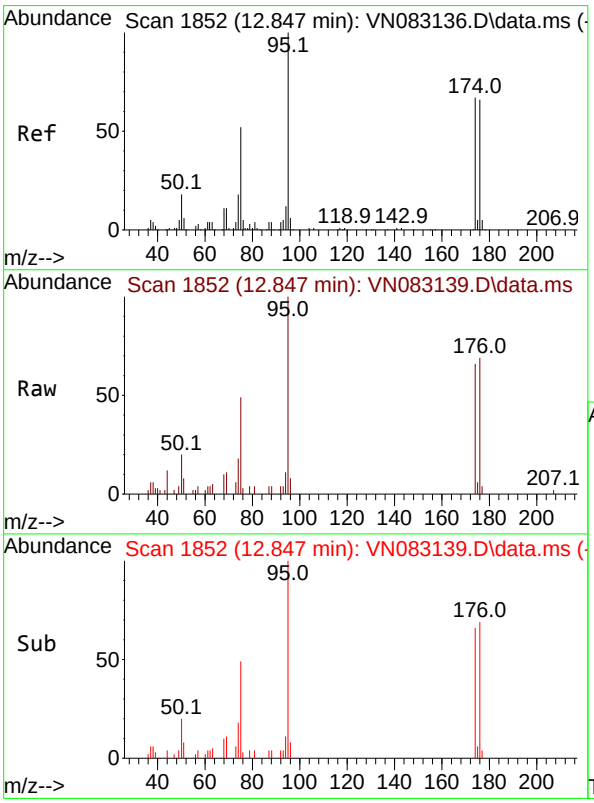
Ion	Ratio	Lower	Upper
107	100		
109	95.9	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

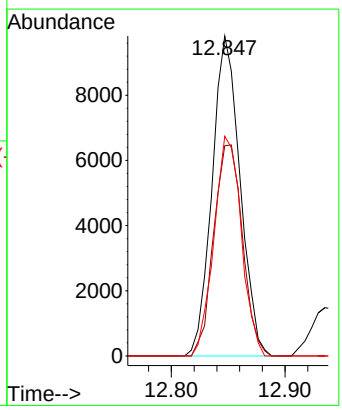


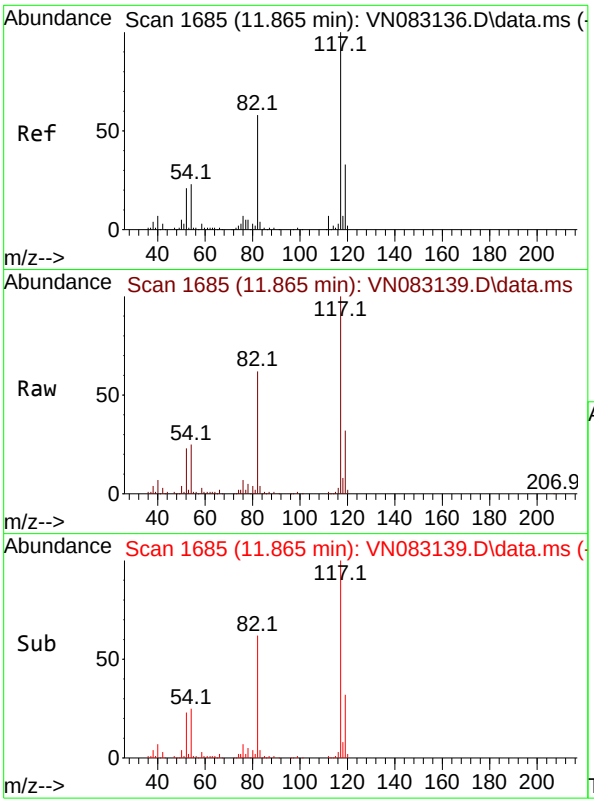


#62
4-Bromofluorobenzene
Concen: 5.317 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 95 Resp: 16776

Ion	Ratio	Lower	Upper
95	100		
174	68.1	0.0	159.2
176	67.0	0.0	147.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

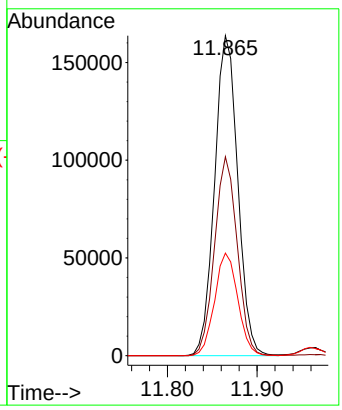
Tgt Ion:117 Resp: 29351

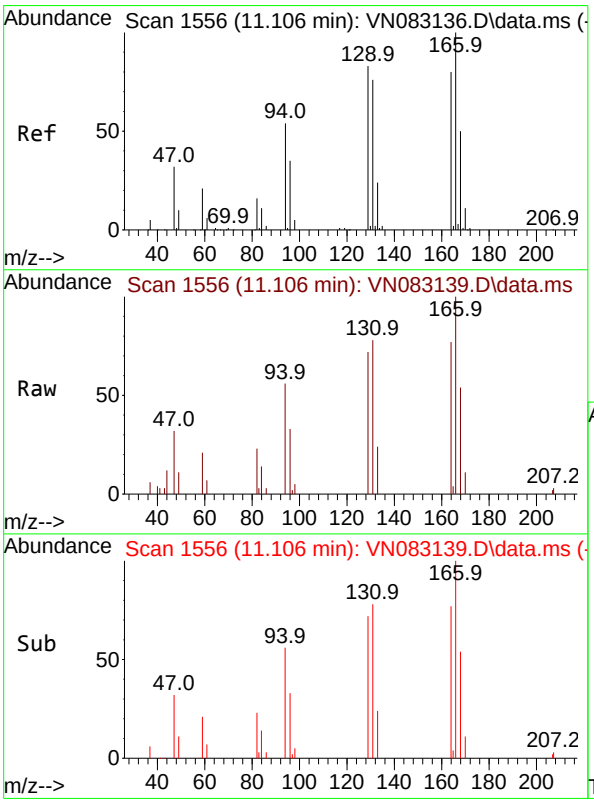
Ion	Ratio	Lower	Upper
117	100		
82	62.1	47.5	71.3
119	32.0	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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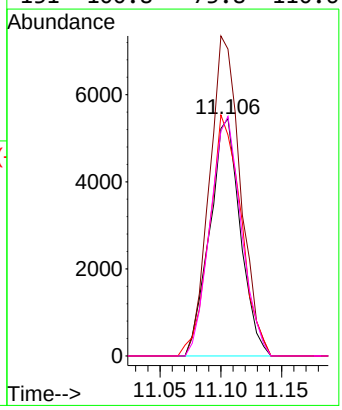


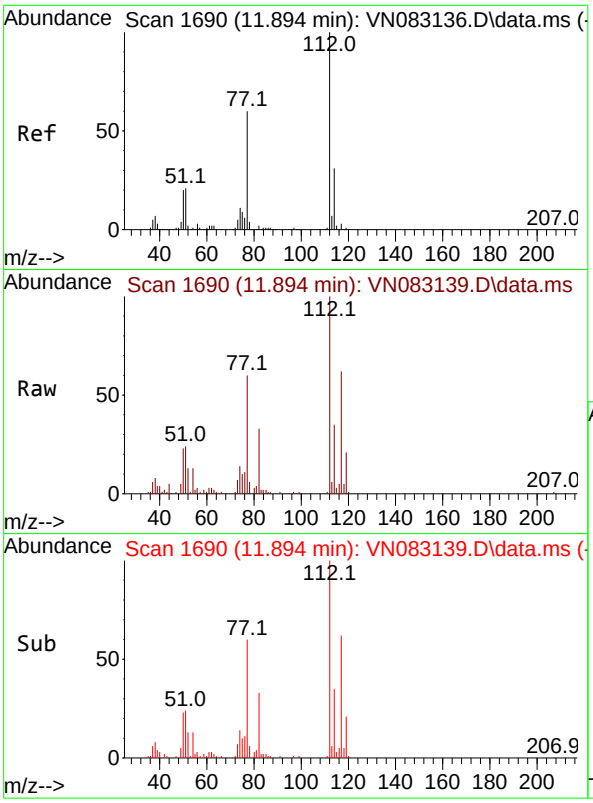


#64
Tetrachloroethene
Concen: 4.896 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:164 Resp: 9517

Ion	Ratio	Lower	Upper
164	100		
166	129.2	101.4	152.0
129	93.1	75.7	113.5
131	100.8	73.8	110.6

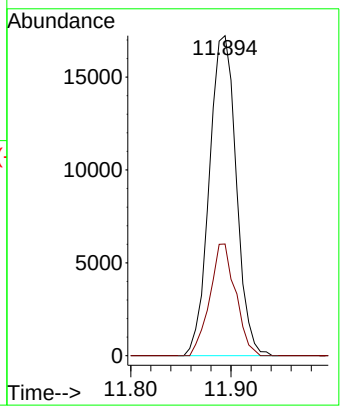




#65
Chlorobenzene
Concen: 4.951 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:112 Resp: 3211

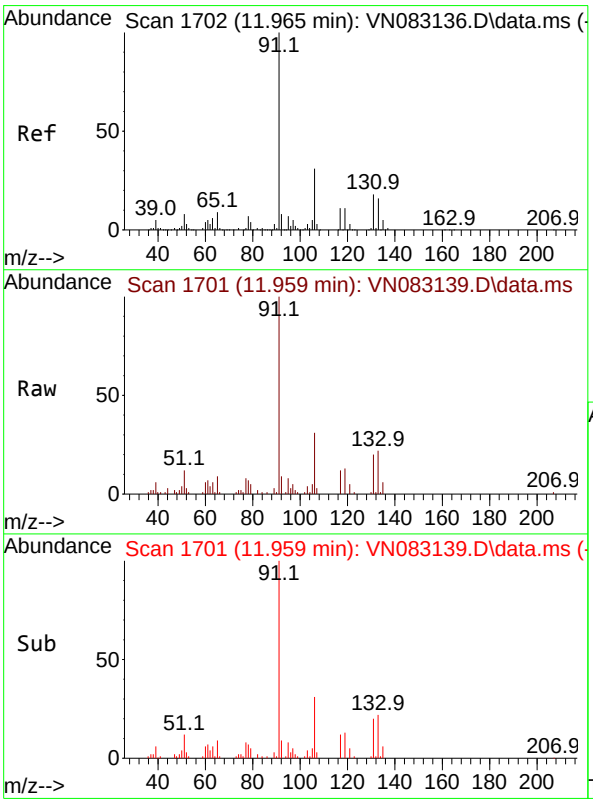
Ion	Ratio	Lower	Upper
112	100		
114	34.9	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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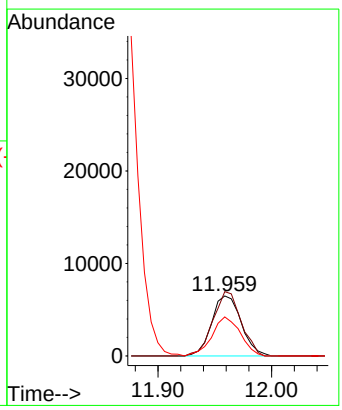
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

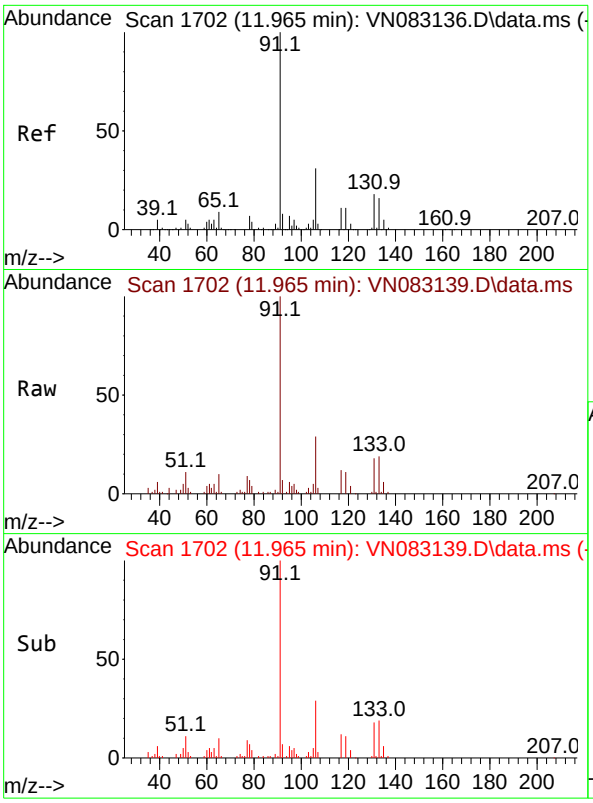


#66
1,1,1,2-Tetrachloroethane
Concen: 5.140 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:131 Resp: 11758

Ion	Ratio	Lower	Upper
131	100		
133	101.6	47.3	142.0
119	62.2	32.5	97.4





#67
Ethyl Benzene
Concen: 5.013 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

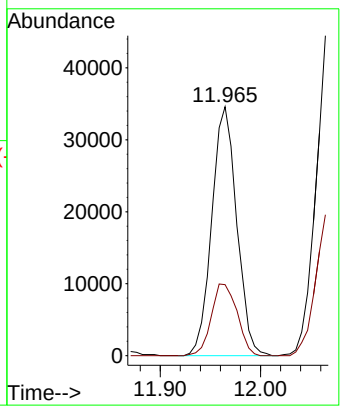
Tgt Ion: 91 Resp: 5964

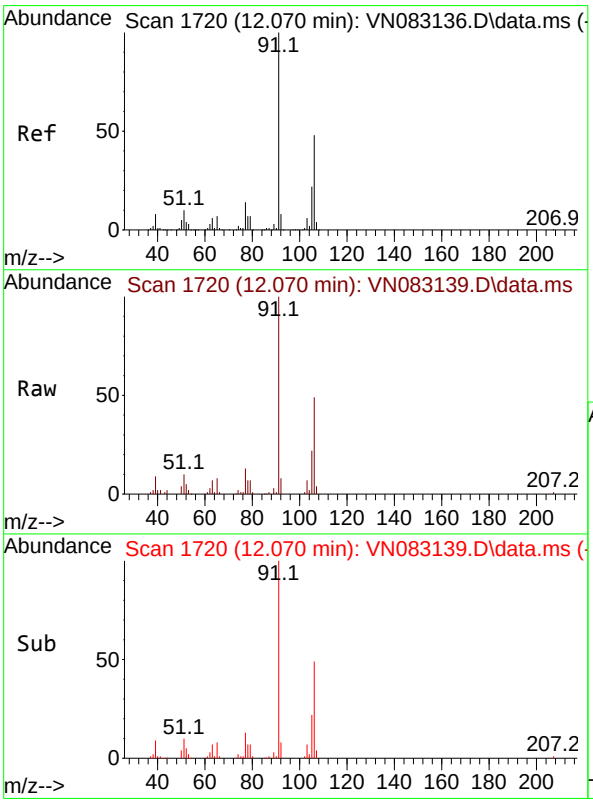
Ion	Ratio	Lower	Upper
91	100		
106	28.6	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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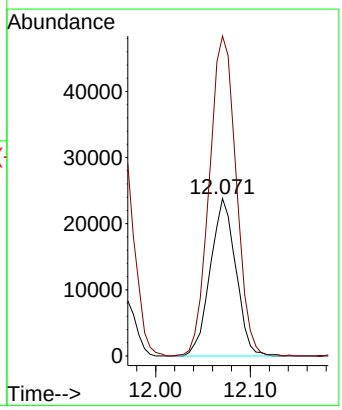


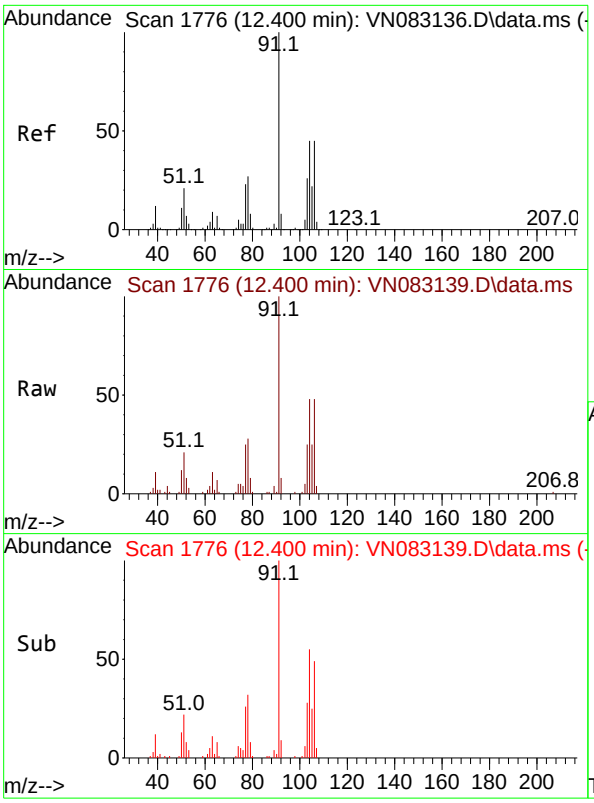


#68
m/p-Xylenes
Concen: 10.000 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:106 Resp: 44572

Ion	Ratio	Lower	Upper
106	100		
91	214.3	166.1	249.1





#69
o-Xylene
Concen: 5.005 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

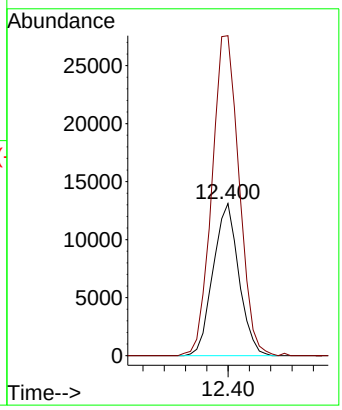
Tgt Ion:106 Resp: 2200

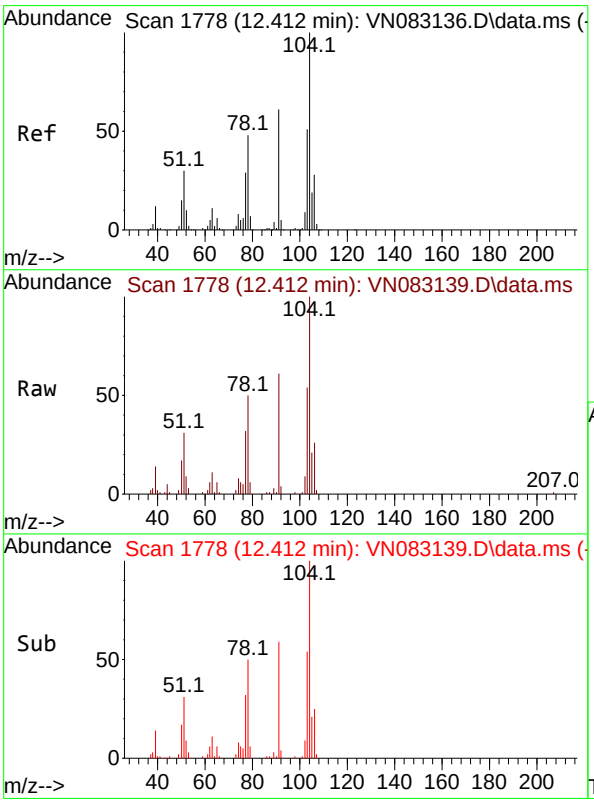
Ion	Ratio	Lower	Upper
106	100		
91	221.7	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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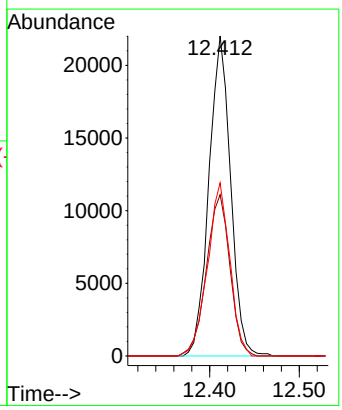


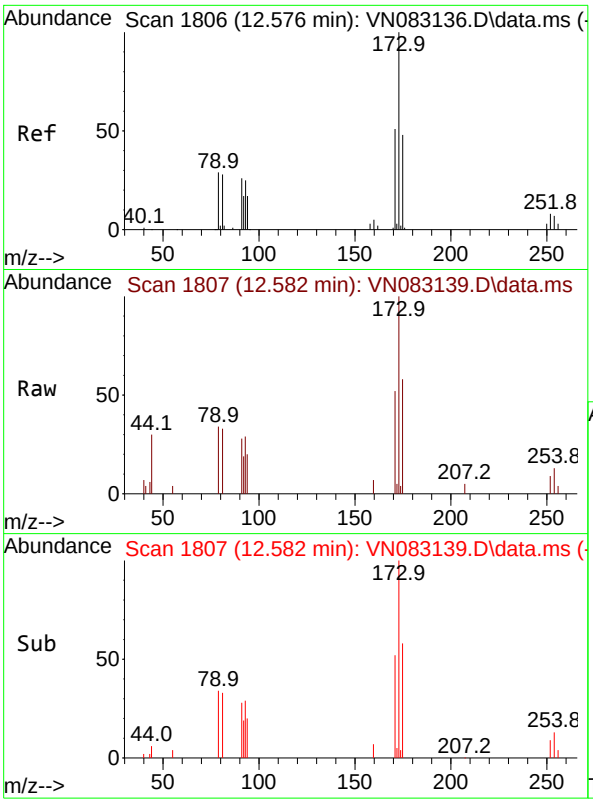


#70
Styrene
Concen: 5.014 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:104 Resp: 37023

Ion	Ratio	Lower	Upper
104	100		
78	54.3	41.6	62.4
103	55.4	44.0	66.0





#71
Bromoform
Concen: 4.665 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

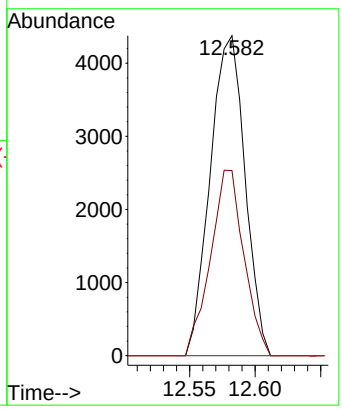
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

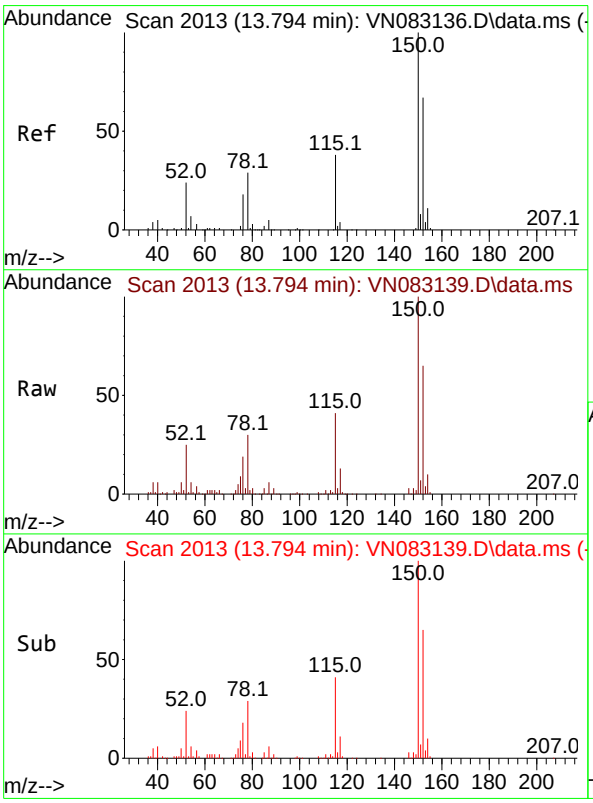
Tgt Ion:173 Resp: 808

Ion	Ratio	Lower	Upper
173	100		
175	55.6	24.0	72.0
254	0.0	0.0	0.0

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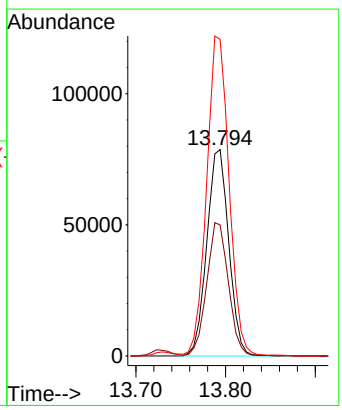


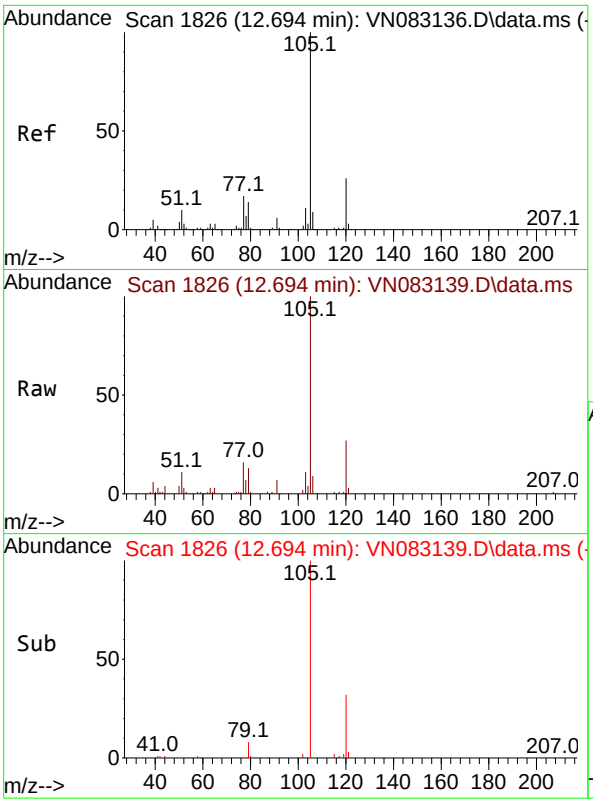


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:152 Resp: 133537

Ion	Ratio	Lower	Upper
152	100		
115	64.0	30.6	91.6
150	158.4	0.0	348.6





#73
Isopropylbenzene
Concen: 5.080 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

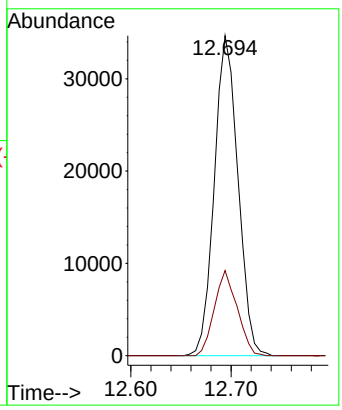
Tgt Ion:105 Resp: 5674

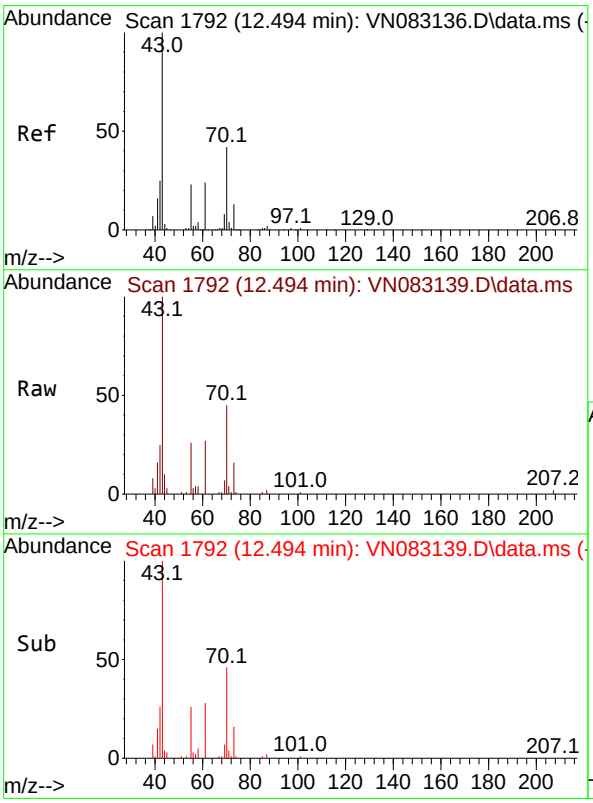
Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.9	38.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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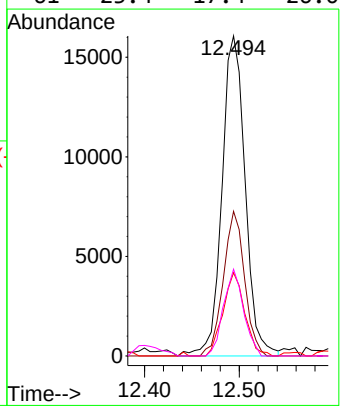


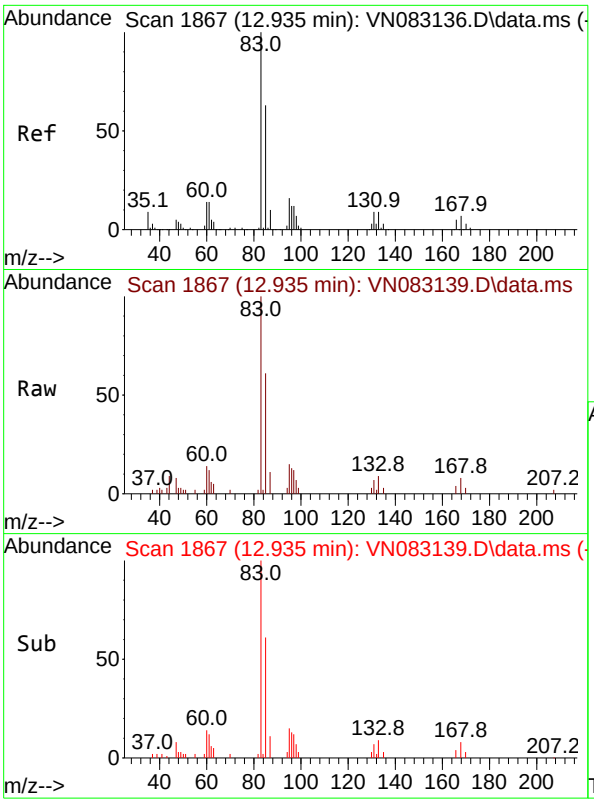


#74
N-amyl acetate
Concen: 5.014 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 27393

Ion	Ratio	Lower	Upper
43	100		
70	41.4	29.8	44.6
55	24.3	18.7	28.1
61	23.4	17.4	26.0

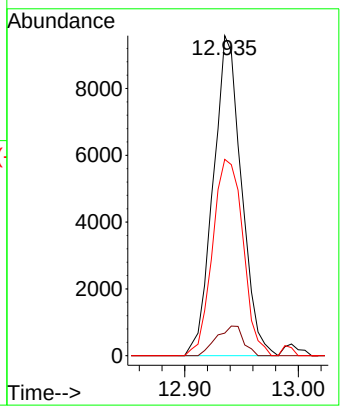




#75
1,1,2,2-Tetrachloroethane
Concen: 5.227 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 83 Resp: 1651

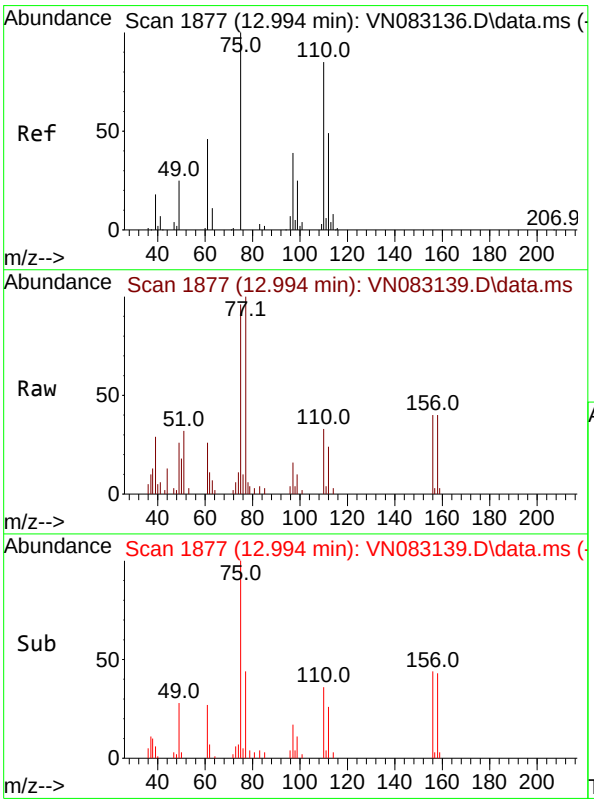
Ion	Ratio	Lower	Upper
83	100		
131	8.8	5.0	14.9
85	66.4	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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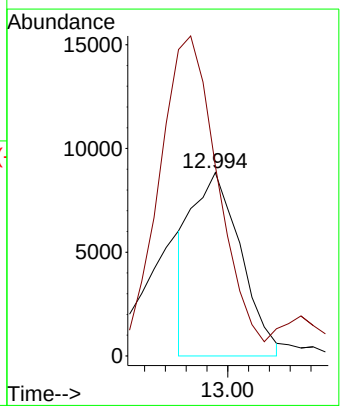
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

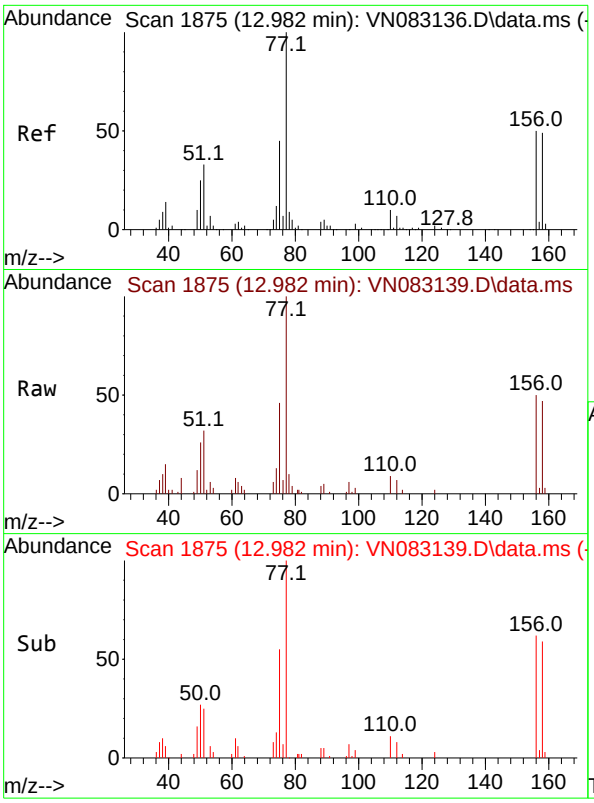


#76
1,2,3-Trichloropropane
Concen: 4.927 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 14463

Ion	Ratio	Lower	Upper
75	100		
77	212.4	110.9	332.6

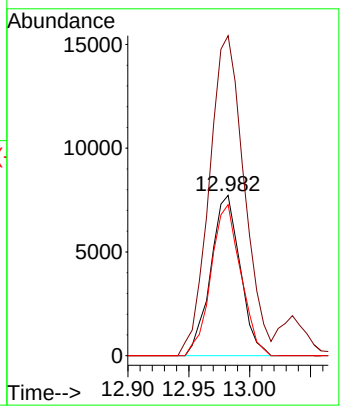




#77
Bromobenzene
Concen: 5.249 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:156 Resp: 1302

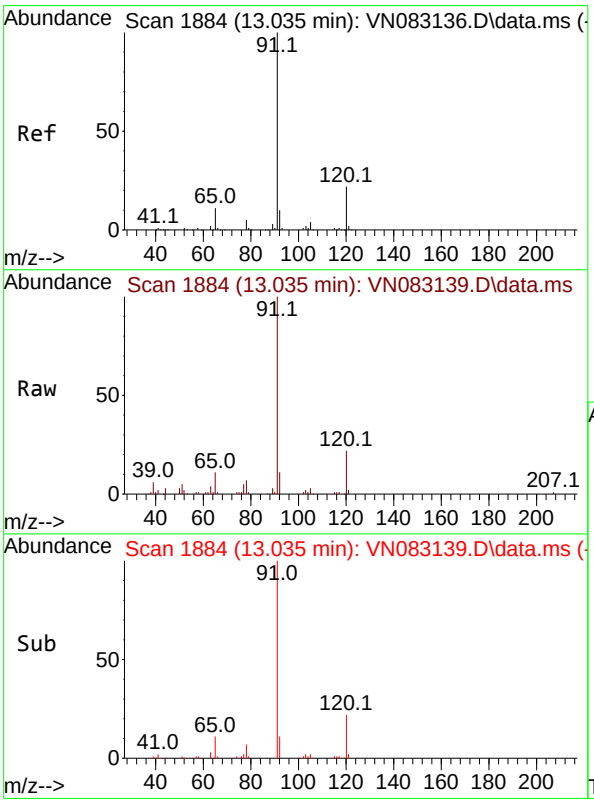
Ion	Ratio	Lower	Upper
156	100		
77	235.8	111.3	333.8
158	95.0	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

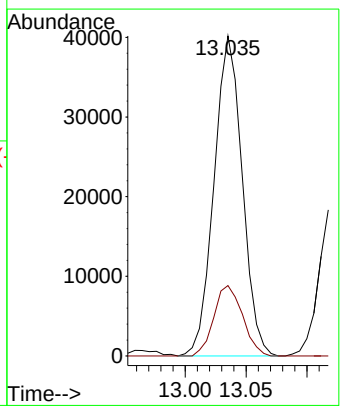
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

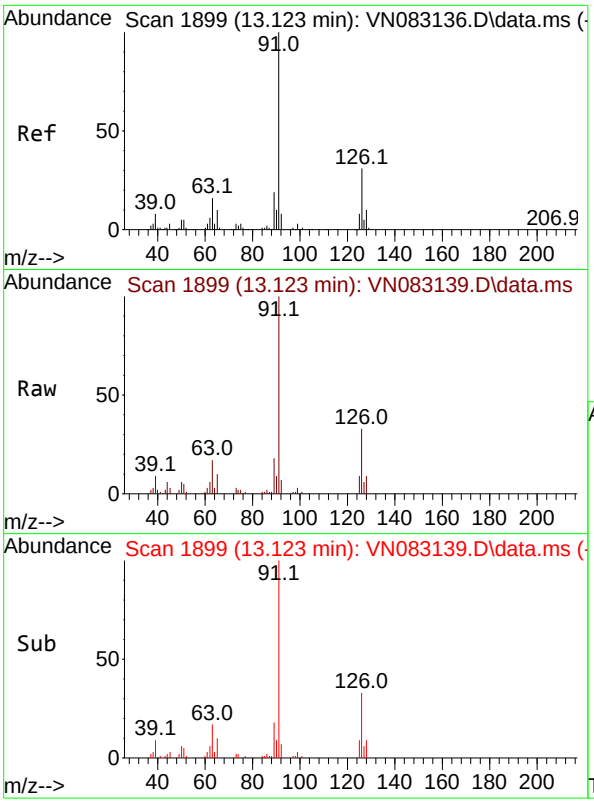


#78
n-propylbenzene
Concen: 5.035 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 91 Resp: 64751

Ion	Ratio	Lower	Upper
91	100		
120	22.4	10.9	32.9

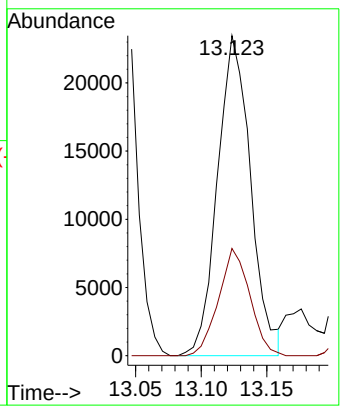




#79
2-Chlorotoluene
Concen: 5.050 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 91 Resp: 4117

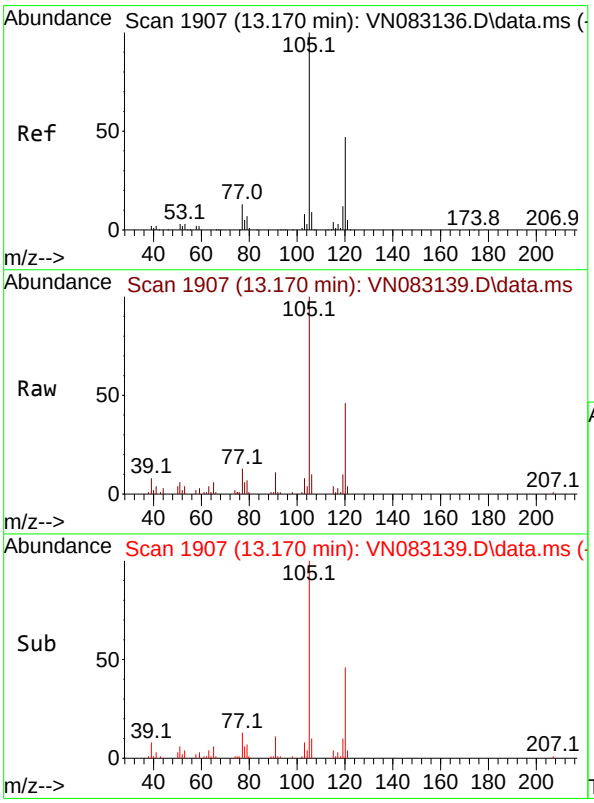
Ion	Ratio	Lower	Upper
91	100		
126	31.6	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

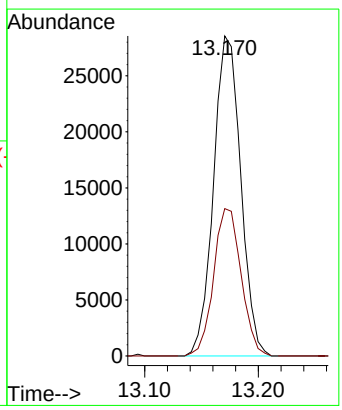
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

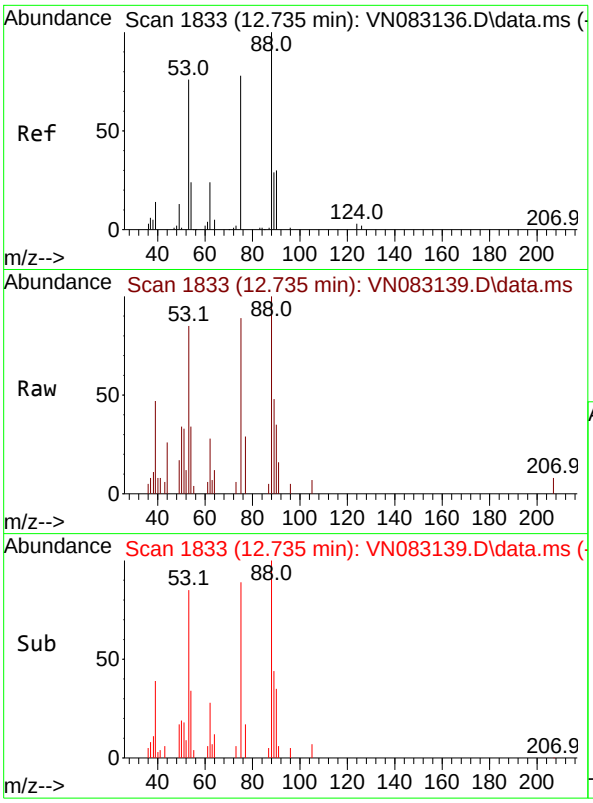


#80
1,3,5-Trimethylbenzene
Concen: 5.088 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:105 Resp: 47581

Ion	Ratio	Lower	Upper
105	100		
120	46.5	24.3	72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 5.254 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

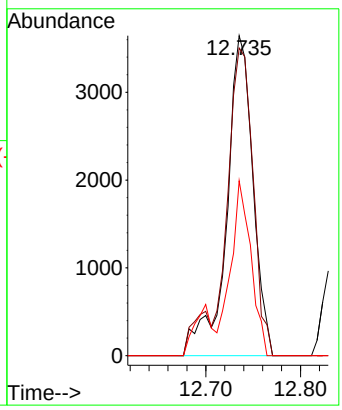
Tgt Ion: 75 Resp: 707

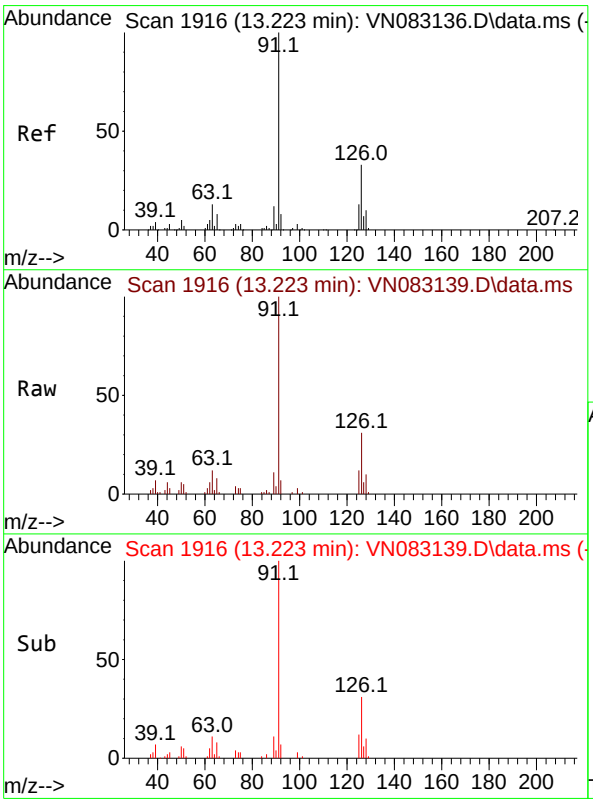
Ion	Ratio	Lower	Upper
75	100		
53	100.6	88.4	132.6
89	41.6	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

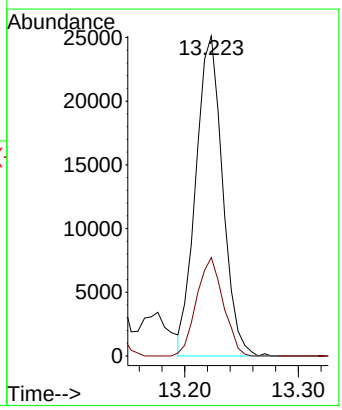


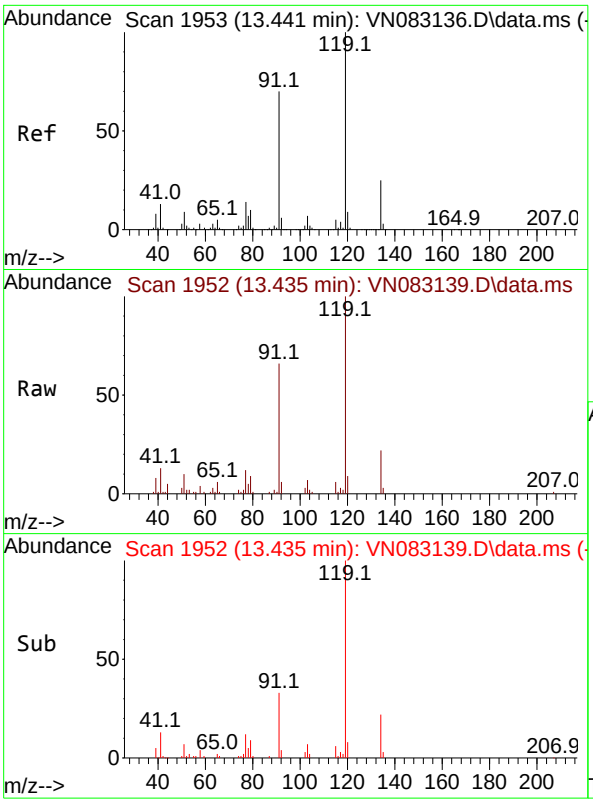


#82
4-Chlorotoluene
Concen: 5.030 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 91 Resp: 41137

Ion	Ratio	Lower	Upper
91	100		
126	30.6	16.2	48.6

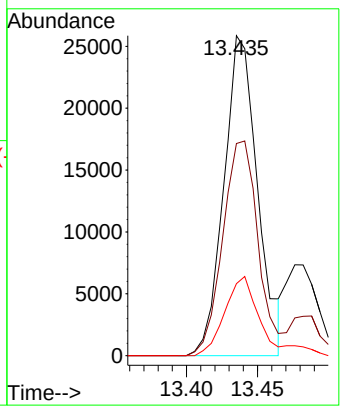




#83
tert-Butylbenzene
Concen: 5.159 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:119 Resp: 4272

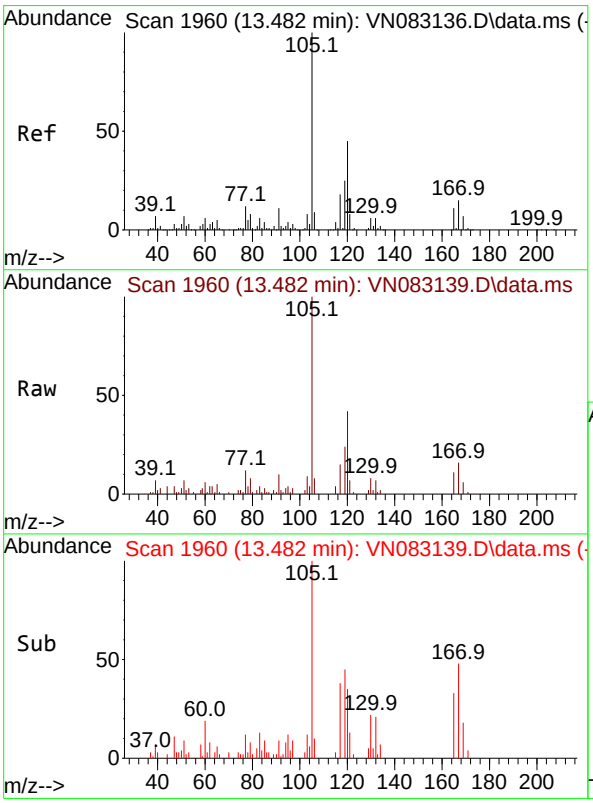
Ion	Ratio	Lower	Upper
119	100		
91	70.0	35.0	105.1
134	26.6	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

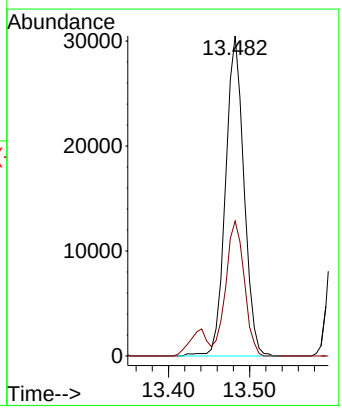
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

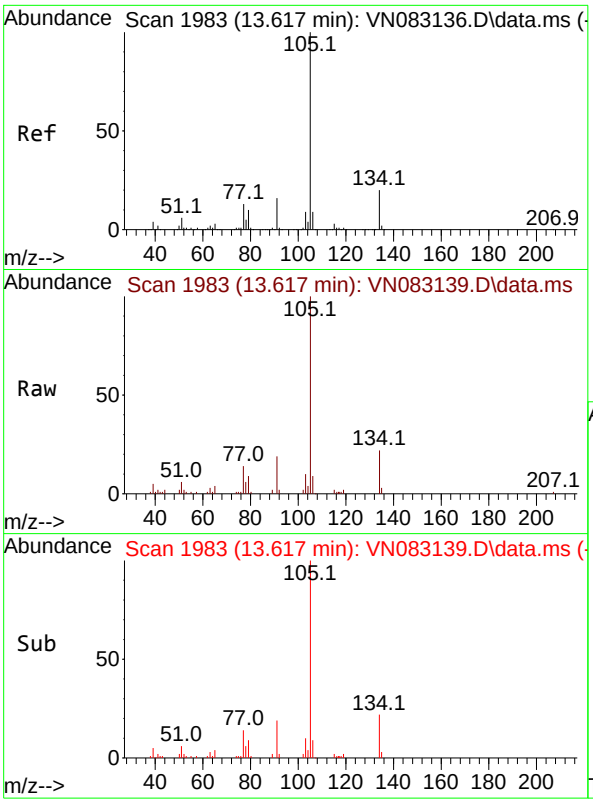


#84
1,2,4-Trimethylbenzene
Concen: 5.090 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:105 Resp: 47965

Ion	Ratio	Lower	Upper
105	100		
120	42.3	21.9	65.8





#85
sec-Butylbenzene
Concen: 5.040 ug/l
RT: 13.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

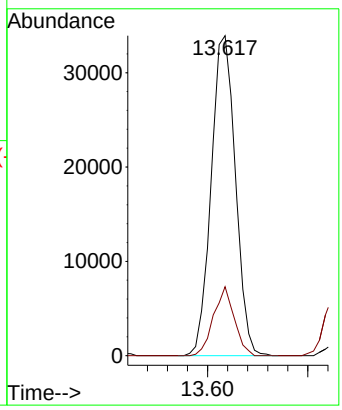
Tgt Ion:105 Resp: 5694

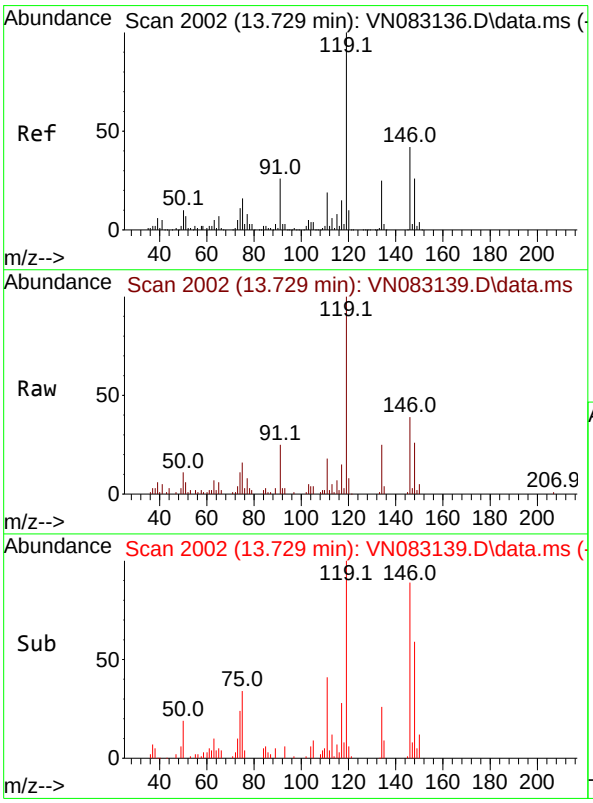
Ion	Ratio	Lower	Upper
105	100		
134	18.5	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

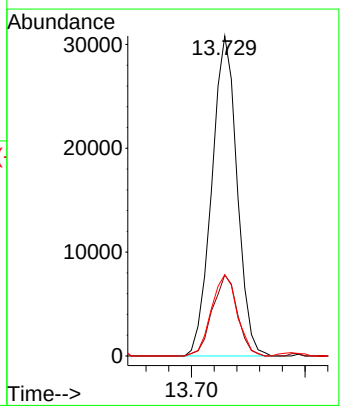


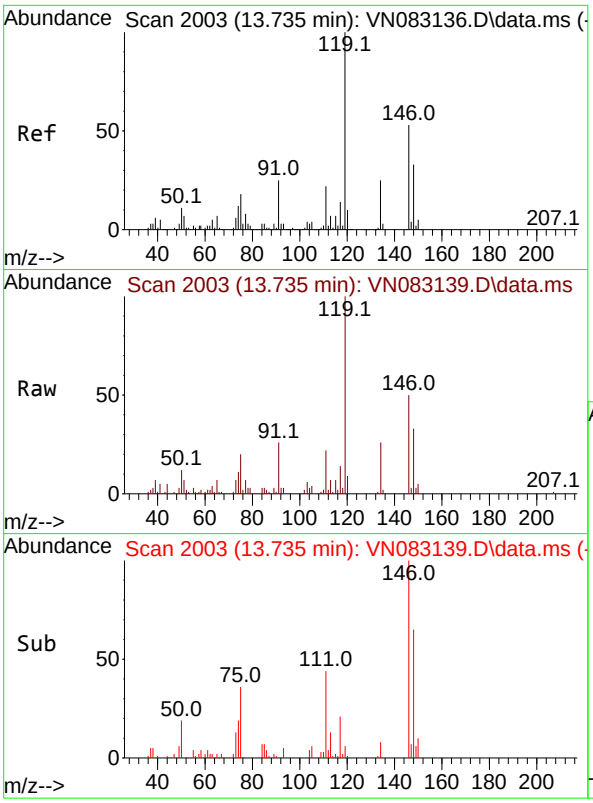


#86
p-Isopropyltoluene
Concen: 5.108 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:119 Resp: 47654

Ion	Ratio	Lower	Upper
119	100		
134	24.9	13.0	39.0
91	26.0	12.3	36.9

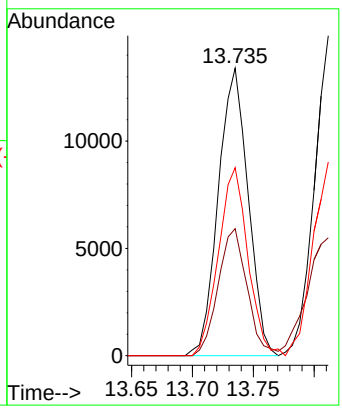




#87
1,3-Dichlorobenzene
Concen: 4.887 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:146 Resp: 2281

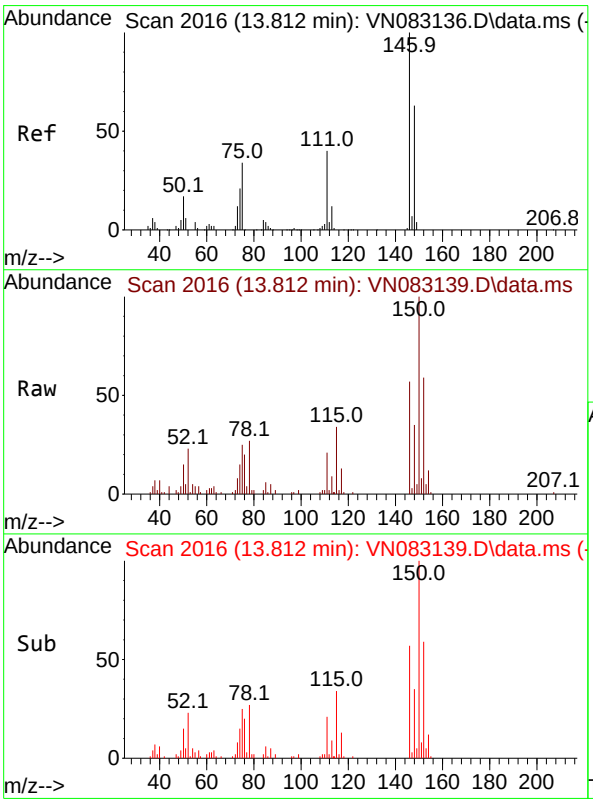
Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.6	61.9
148	64.7	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

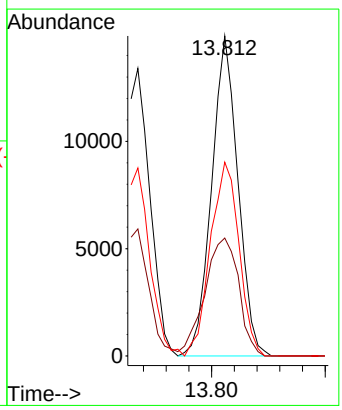
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

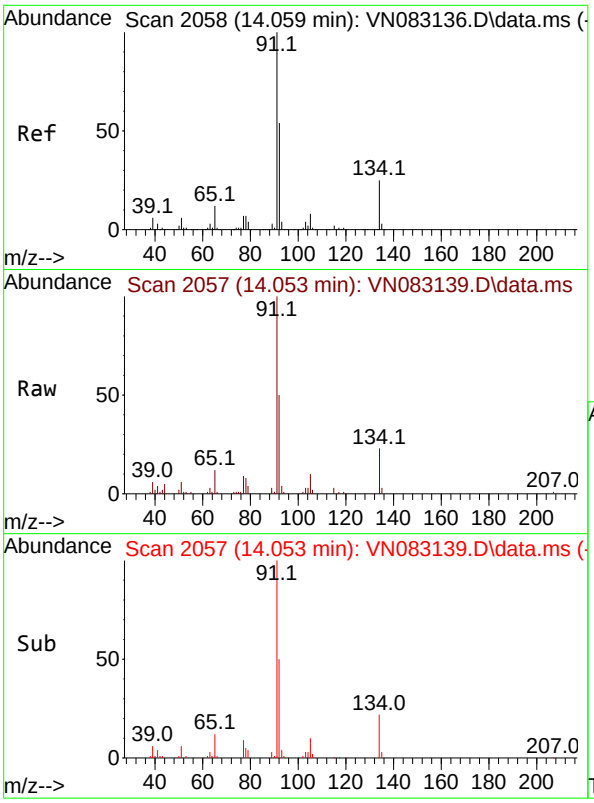


#88
1,4-Dichlorobenzene
Concen: 5.093 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:146 Resp: 23971

Ion	Ratio	Lower	Upper
146	100		
111	47.6	20.1	60.3
148	65.9	32.2	96.6





#89
n-Butylbenzene
Concen: 4.983 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

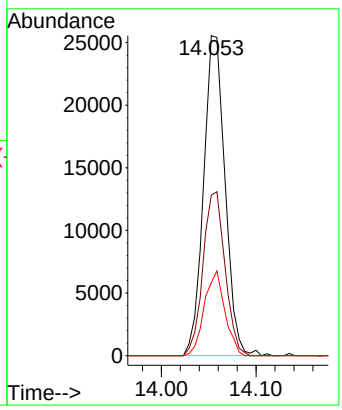
Tgt Ion: 91 Resp: 4028

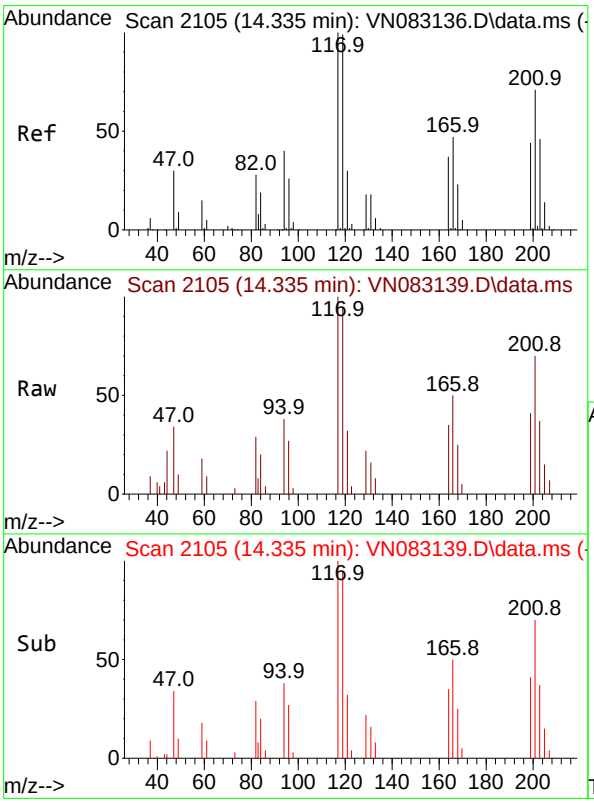
Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.1	78.3
134	25.3	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

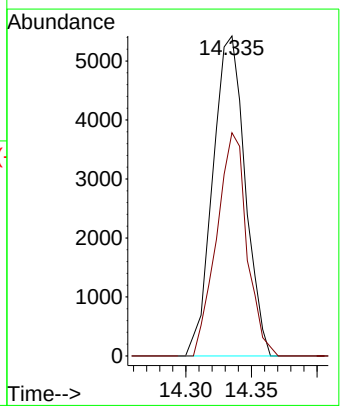


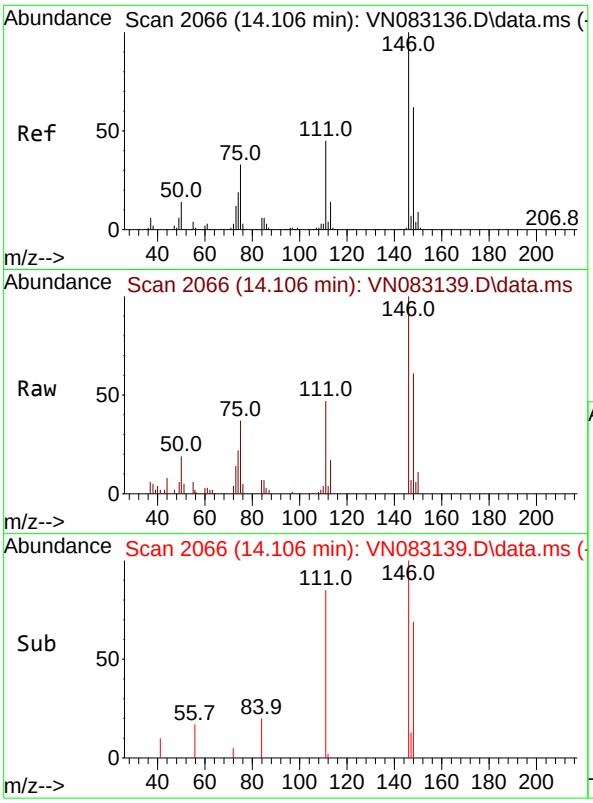


#90
Hexachloroethane
Concen: 5.158 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:117 Resp: 9298

Ion	Ratio	Lower	Upper
117	100		
201	65.4	35.8	107.3

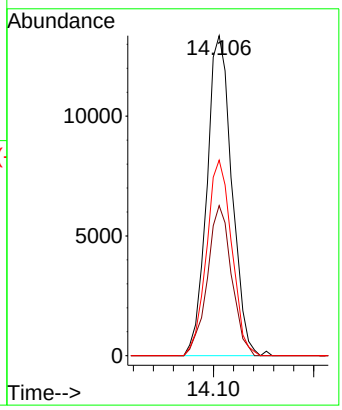




#91
1,2-Dichlorobenzene
Concen: 5.117 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:146 Resp: 2311

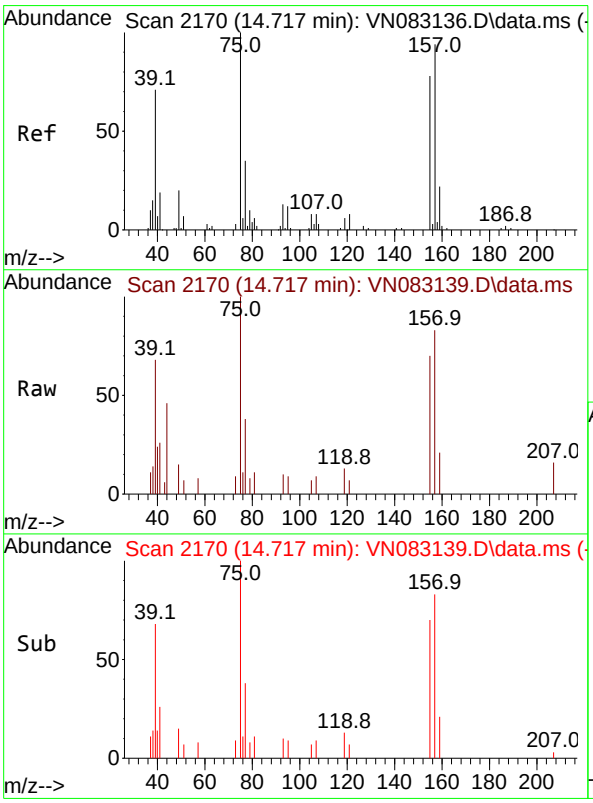
Ion	Ratio	Lower	Upper
146	100		
111	45.5	21.4	64.2
148	61.5	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

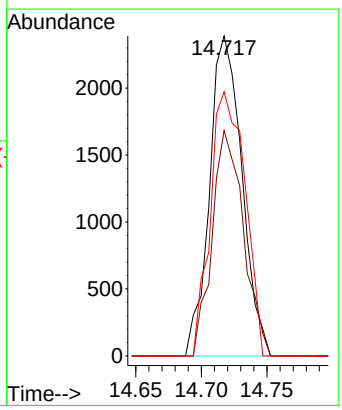
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

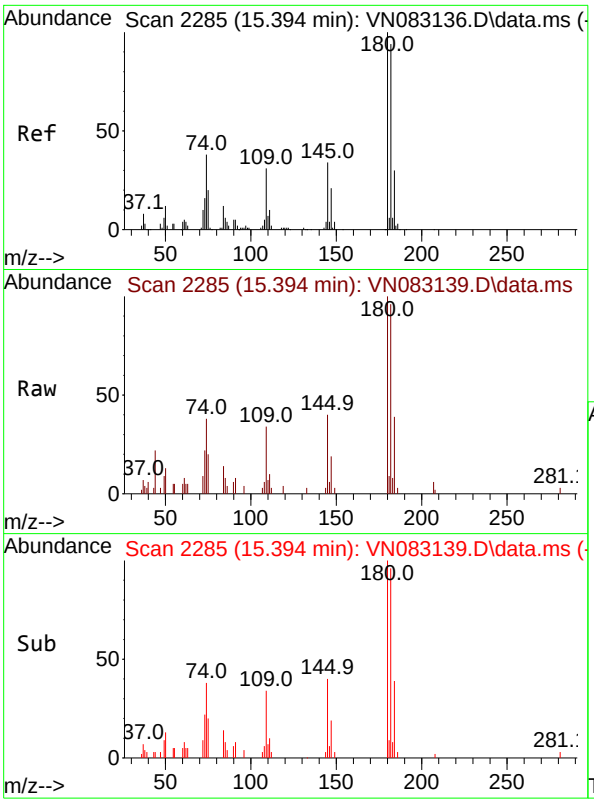


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.345 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 4097

Ion	Ratio	Lower	Upper
75	100		
155	68.1	36.6	109.8
157	88.3	46.9	140.6

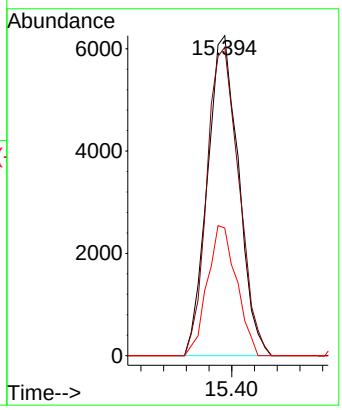




#93
1,2,4-Trichlorobenzene
Concen: 4.710 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:180 Resp: 1192

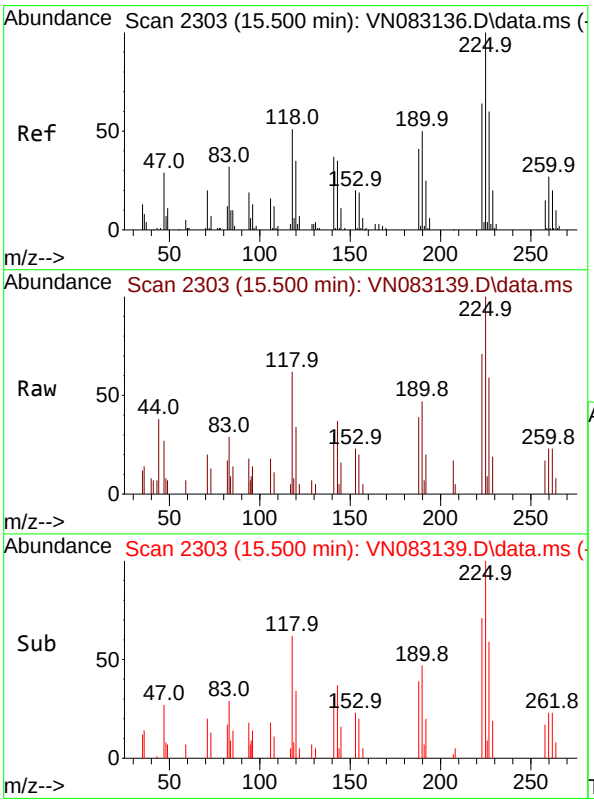
Ion	Ratio	Lower	Upper
180	100		
182	98.9	47.3	141.8
145	38.1	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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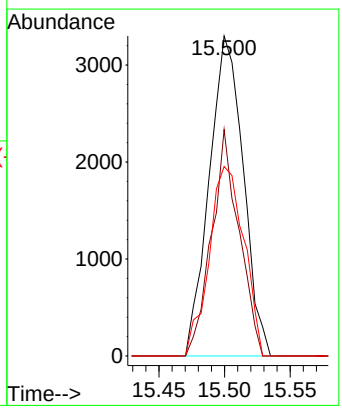
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

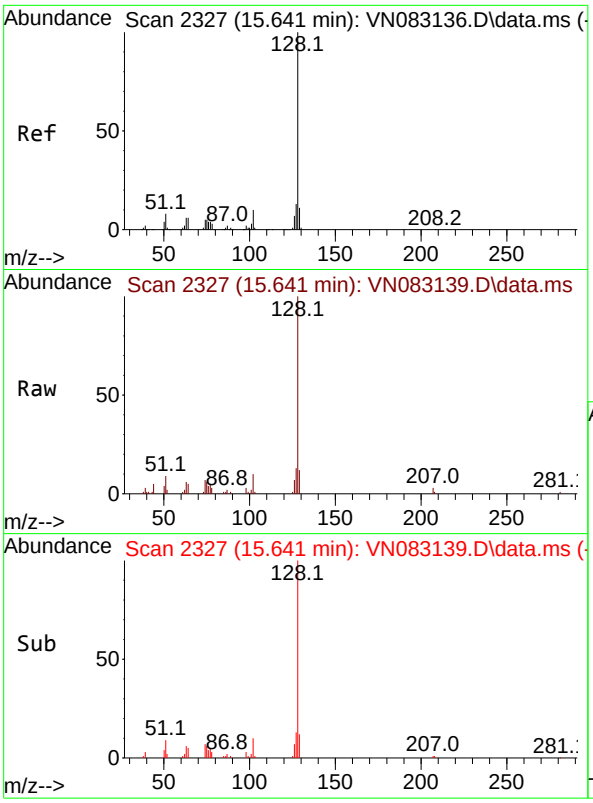


#94
Hexachlorobutadiene
Concen: 5.282 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:225 Resp: 5946

Ion	Ratio	Lower	Upper
225	100		
223	57.3	31.9	95.7
227	60.5	32.5	97.5

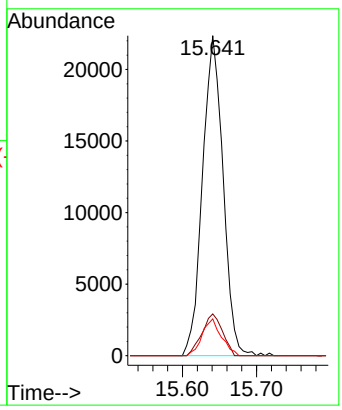




#95
Naphthalene
Concen: 4.811 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:128 Resp: 4313

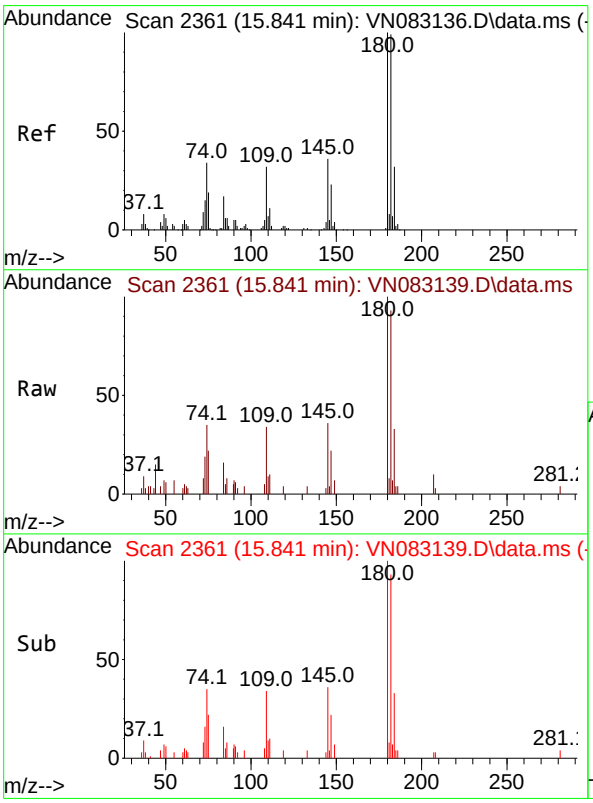
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

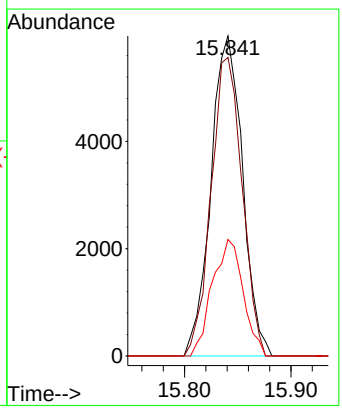
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 4.905 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:180 Resp: 12285

Ion	Ratio	Lower	Upper
180	100		
182	91.5	48.9	146.8
145	35.5	16.8	50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083140.D
Acq On : 07 Aug 2024 12:34
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:19:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	202290	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	347394	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	292647	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	122922	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 64 - 133		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	2193	0.956	ug/l		84
3) Chloromethane	2.365	50	2331	0.993	ug/l		96
4) Vinyl Chloride	2.512	62	2457	1.025	ug/l		94
6) Chloroethane	3.124	64	1763	1.176	ug/l	#	54
7) Trichlorofluoromethane	3.495	101	3645	0.921	ug/l		88
8) Diethyl Ether	3.965	74	1368	0.929	ug/l		95
9) 1,1,2-Trichlorotrifluo...	4.371	101	2064	0.946	ug/l	#	88
12) 1,1-Dichloroethene	4.342	96	2328	1.038	ug/l	#	72
14) Allyl chloride	5.018	41	4894	1.155	ug/l	#	75
15) Acrylonitrile	5.724	53	6198	5.036	ug/l		94
16) Acetone	4.442	43	5369	4.765	ug/l		95
17) Carbon Disulfide	4.718	76	7603	1.159	ug/l		99
18) Methyl Acetate	5.036	43	3987	1.188	ug/l	#	89
19) Methyl tert-butyl Ether	5.795	73	7900	0.976	ug/l		96
20) Methylene Chloride	5.283	84	3255	1.255	ug/l	#	63
21) trans-1,2-Dichloroethene	5.783	96	2425	1.046	ug/l	#	75
22) Diisopropyl ether	6.677	45	7871	0.988	ug/l		94
23) Vinyl Acetate	6.606	43	39044	4.783	ug/l	#	94
24) 1,1-Dichloroethane	6.571	63	4189	0.965	ug/l	#	83
25) 2-Butanone	7.495	43	9164	5.297	ug/l		93
26) 2,2-Dichloropropane	7.489	77	3741	0.928	ug/l		95
27) cis-1,2-Dichloroethene	7.495	96	2919	1.044	ug/l		90
28) Bromochloromethane	7.812	49	1883	1.061	ug/l	#	92
29) Tetrahydrofuran	7.842	42	5490	4.909	ug/l	#	87
30) Chloroform	7.971	83	4457	0.988	ug/l		95
32) 1,1,1-Trichloroethane	8.171	97	4076	0.955	ug/l	#	49
36) 1,1-Dichloropropene	8.377	75	3393	1.034	ug/l		97
37) Ethyl Acetate	7.565	43	4617	1.257	ug/l	#	90
38) Carbon Tetrachloride	8.359	117	3422	0.926	ug/l	#	84
39) Methylcyclohexane	9.600	83	3974	0.986	ug/l		87
40) Benzene	8.606	78	9334	0.955	ug/l		99
41) Methacrylonitrile	7.783	41	2618	1.254	ug/l	#	85
42) 1,2-Dichloroethane	8.677	62	3457	0.971	ug/l		82
43) Isopropyl Acetate	8.689	43	14981	0.753	ug/l	#	80
44) Trichloroethene	9.359	130	2151	0.925	ug/l		98
45) 1,2-Dichloropropane	9.618	63	2194	0.946	ug/l		93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083140.D
Acq On : 07 Aug 2024 12:34
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 08 06:19:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	9.700	93	1513	0.911	ug/l		95
47) Bromodichloromethane	9.894	83	3783	1.015	ug/l	#	83
48) Methyl methacrylate	9.683	41	3518	1.159	ug/l		96
49) 1,4-Dioxane	9.700	88	1089	19.880	ug/l	#	77
51) 4-Methyl-2-Pentanone	10.447	43	15872	4.570	ug/l		90
52) Toluene	10.630	92	5723	0.927	ug/l		97
53) t-1,3-Dichloropropene	10.835	75	3260	0.851	ug/l		100
54) cis-1,3-Dichloropropene	10.312	75	3797	0.932	ug/l	#	87
55) 1,1,2-Trichloroethane	11.018	97	1963	0.887	ug/l		96
56) Ethyl methacrylate	10.871	69	3843	0.921	ug/l	#	90
57) 1,3-Dichloropropane	11.165	76	3837	0.973	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	8453	4.794	ug/l		93
59) 2-Hexanone	11.200	43	12761	4.749	ug/l		100
60) Dibromochloromethane	11.353	129	2283	0.853	ug/l		99
61) 1,2-Dibromoethane	11.465	107	2200	0.947	ug/l		98
64) Tetrachloroethene	11.106	164	1872	0.966	ug/l		93
65) Chlorobenzene	11.888	112	6259	0.968	ug/l		93
66) 1,1,1,2-Tetrachloroethane	11.965	131	2168	0.951	ug/l	#	63
67) Ethyl Benzene	11.965	91	11455	0.966	ug/l		98
68) m/p-Xylenes	12.065	106	8266	1.860	ug/l		94
69) o-Xylene	12.400	106	4113	0.938	ug/l		98
70) Styrene	12.412	104	6441	0.875	ug/l		90
71) Bromoform	12.577	173	1561	0.903	ug/l	#	88
73) Isopropylbenzene	12.694	105	10459	1.017	ug/l		99
74) N-amyl acetate	12.494	43	5755	1.144	ug/l	#	92
75) 1,1,2,2-Tetrachloroethane	12.941	83	3034	1.043	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	3031m	1.122	ug/l		
77) Bromobenzene	12.977	156	2212	0.969	ug/l		86
78) n-propylbenzene	13.029	91	11800	0.997	ug/l		99
79) 2-Chlorotoluene	13.124	91	7735	1.031	ug/l		90
80) 1,3,5-Trimethylbenzene	13.176	105	8552	0.994	ug/l		95
82) 4-Chlorotoluene	13.224	91	8018	1.065	ug/l		93
83) tert-Butylbenzene	13.435	119	7628	1.001	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	8397	0.968	ug/l		100
85) sec-Butylbenzene	13.618	105	10411	1.001	ug/l		96
86) p-Isopropyltoluene	13.735	119	8247	0.960	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	4598	1.070	ug/l		97
88) 1,4-Dichlorobenzene	13.812	146	4578m	1.057	ug/l		
89) n-Butylbenzene	14.053	91	7008	0.942	ug/l		100
90) Hexachloroethane	14.335	117	1524	0.918	ug/l		93
91) 1,2-Dichlorobenzene	14.106	146	4279	1.029	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	14.718	75	763	1.081	ug/l		78
93) 1,2,4-Trichlorobenzene	15.394	180	2493	1.070	ug/l		97
94) Hexachlorobutadiene	15.512	225	1181	1.140	ug/l		92
95) Naphthalene	15.641	128	8430	1.021	ug/l	#	96
96) 1,2,3-Trichlorobenzene	15.835	180	2389	1.036	ug/l		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

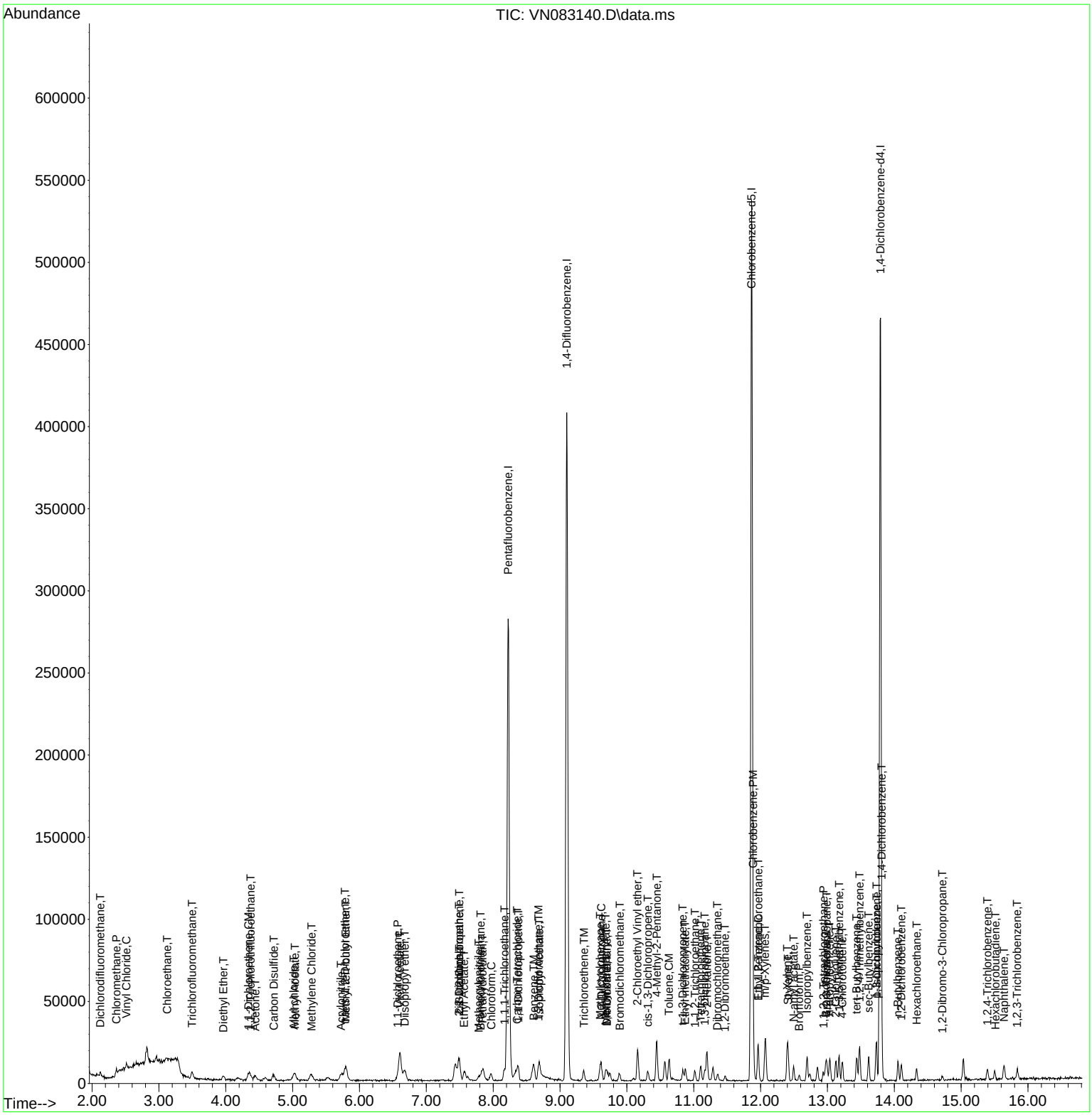
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Data File : VN083140.D
Acq On : 07 Aug 2024 12:34
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

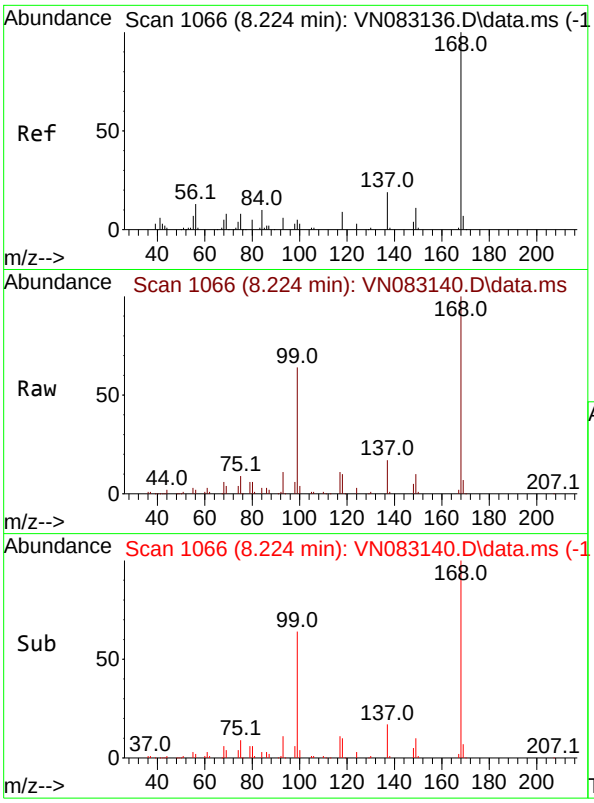
Quant Time: Aug 08 06:19:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

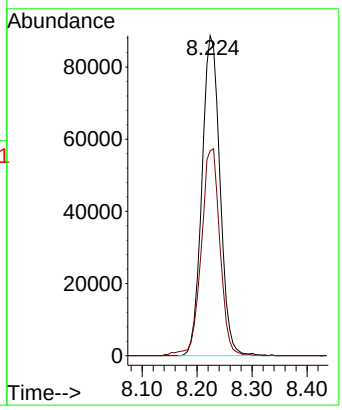




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:168 Resp: 20229

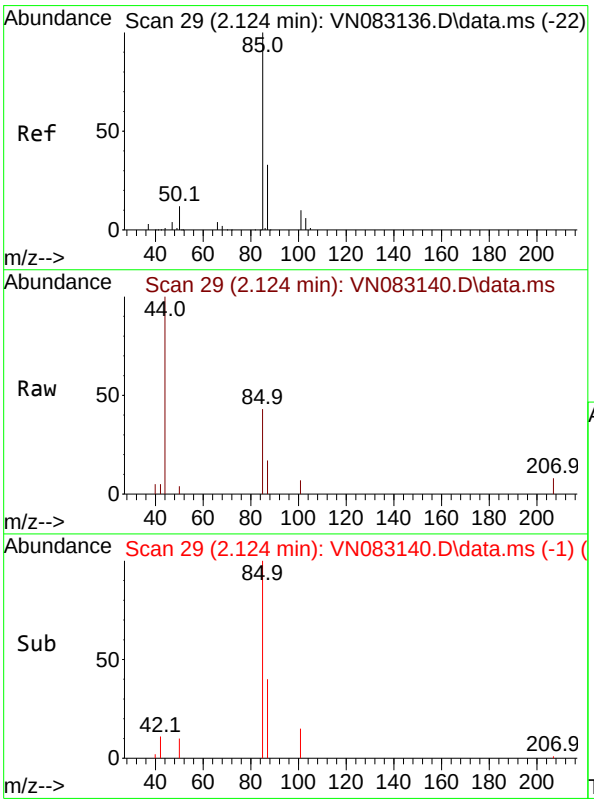
Ion	Ratio	Lower	Upper
168	100		
99	64.1	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

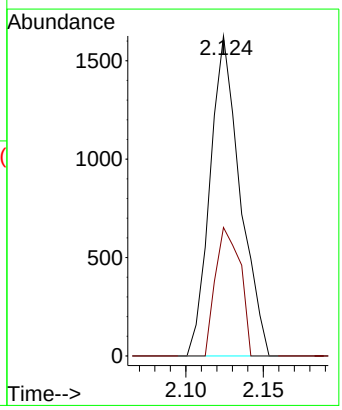
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

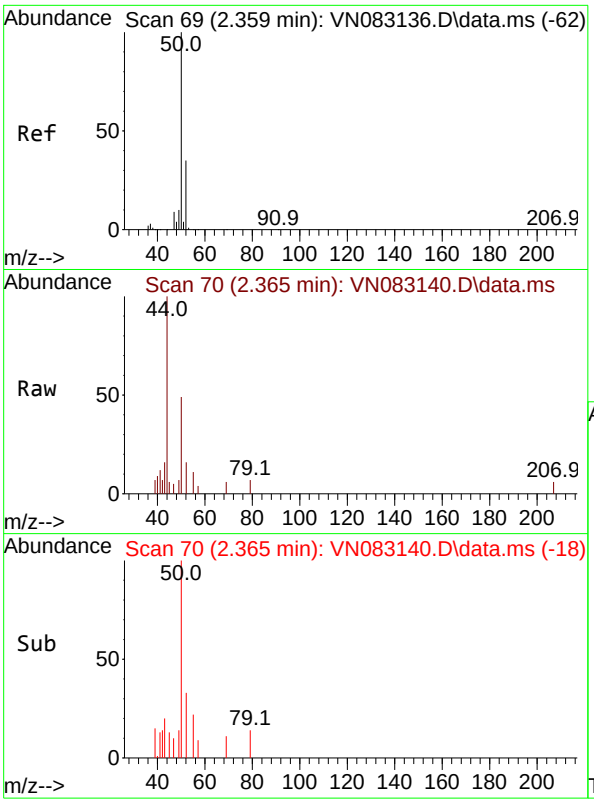


#2
Dichlorodifluoromethane
Concen: 0.956 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 85 Resp: 2193

Ion	Ratio	Lower	Upper
85	100		
87	40.2	15.7	47.0

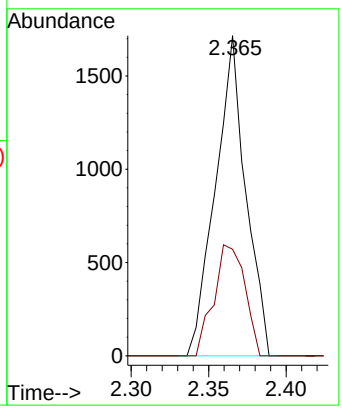




#3
Chloromethane
Concen: 0.993 ug/l
RT: 2.365 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 50 Resp: 233

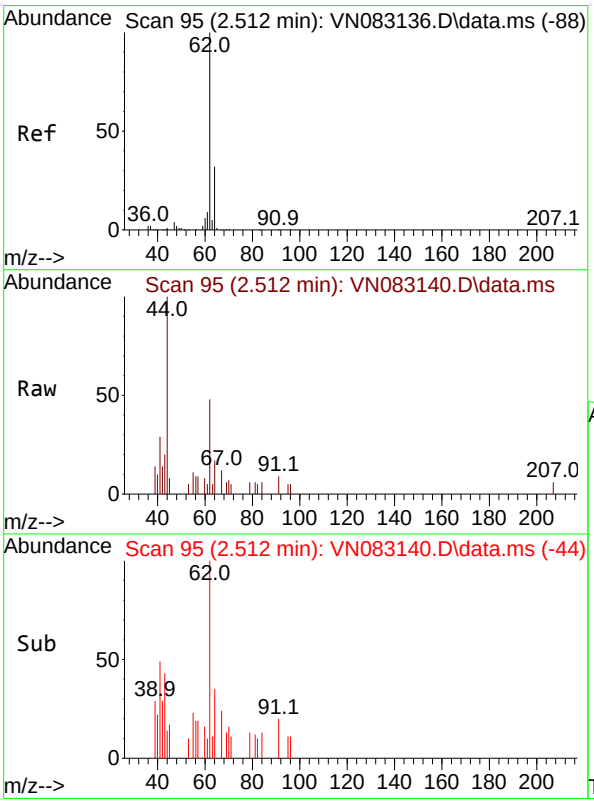
Ion	Ratio	Lower	Upper
50	100		
52	33.3	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

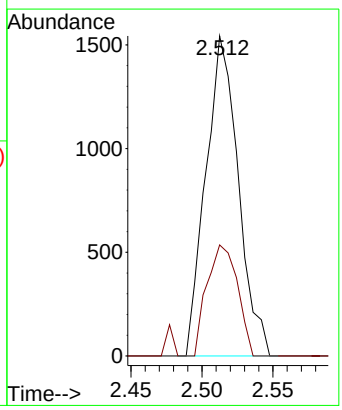
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

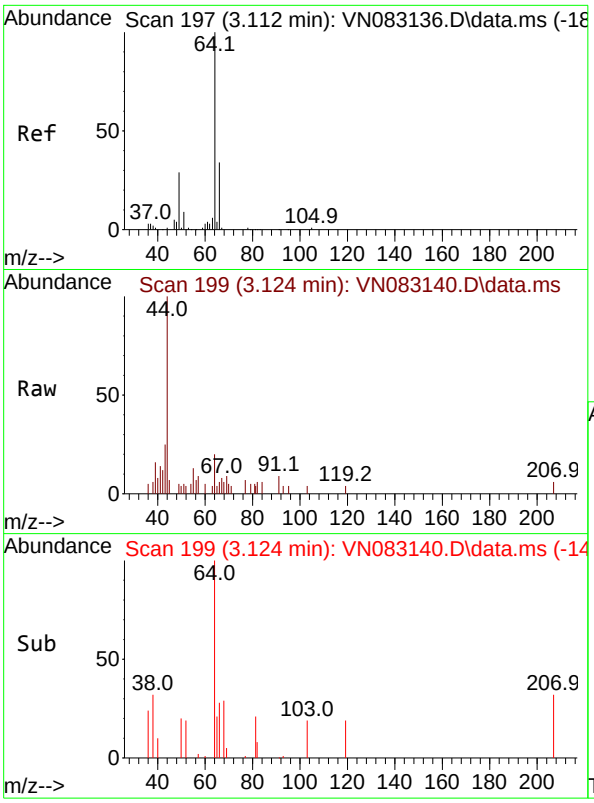


#4
Vinyl Chloride
Concen: 1.025 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 62 Resp: 2457

Ion	Ratio	Lower	Upper
62	100		
64	34.7	25.0	37.6

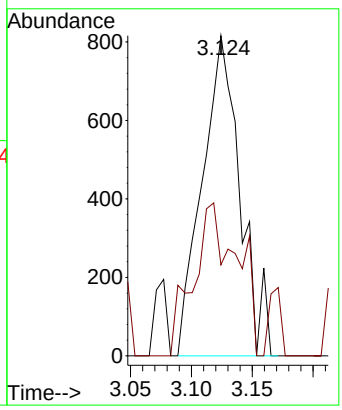




#6
Chloroethane
Concen: 1.176 ug/l
RT: 3.124 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 64 Resp: 176

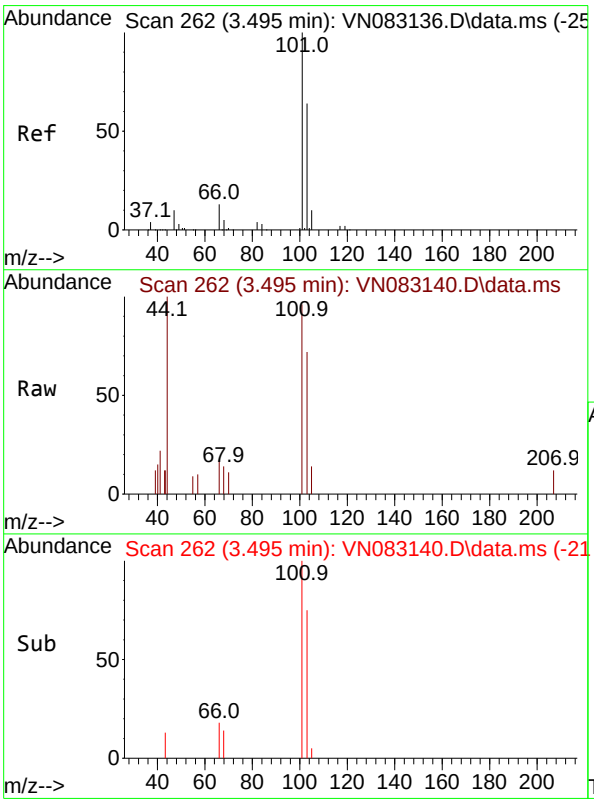
Ion	Ratio	Lower	Upper
64	100		
66	7.1	26.6	40.0#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

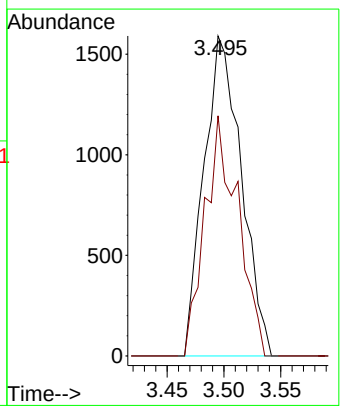
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

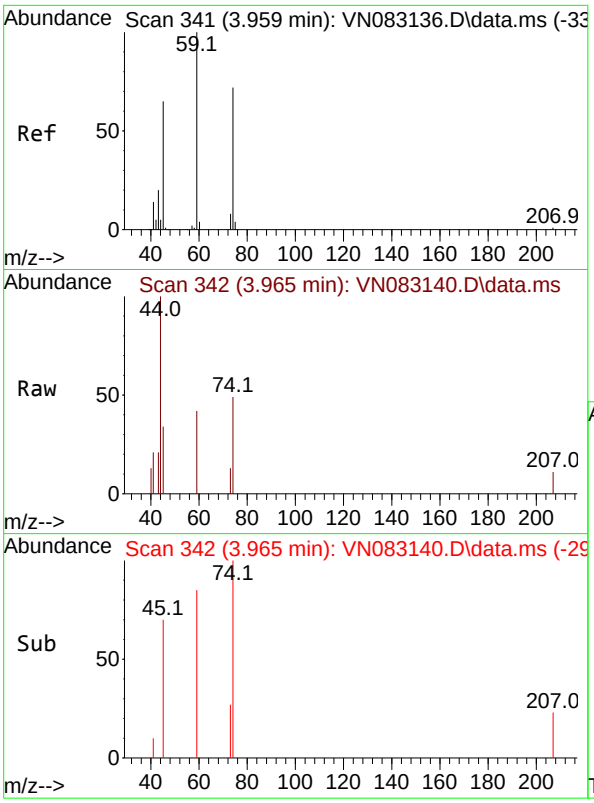


#7
Trichlorofluoromethane
Concen: 0.921 ug/l
RT: 3.495 min Scan# 262
Delta R.T. -0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:101 Resp: 3645

Ion	Ratio	Lower	Upper
101	100		
103	75.0	52.7	79.1





#8
Diethyl Ether
Concen: 0.929 ug/l
RT: 3.965 min Scan# 34
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

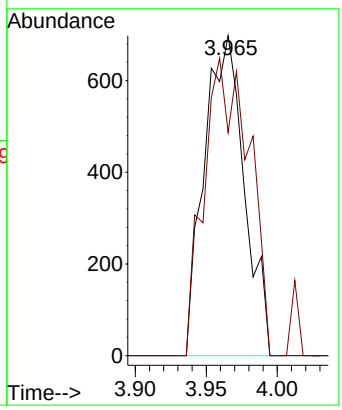
Tgt Ion: 74 Resp: 136

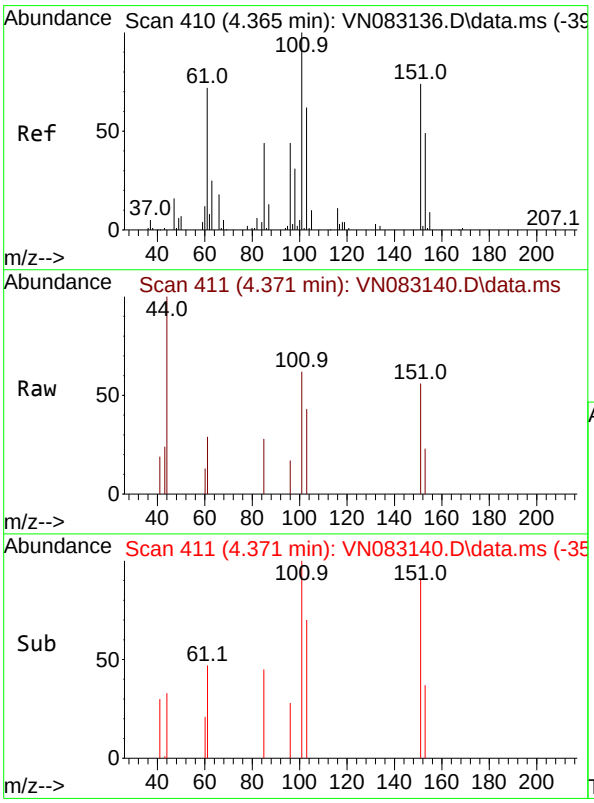
Ion	Ratio	Lower	Upper
74	100		
45	105.1	55.5	166.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

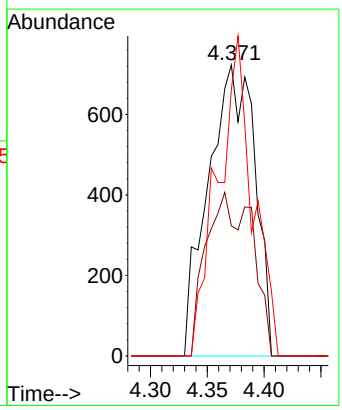


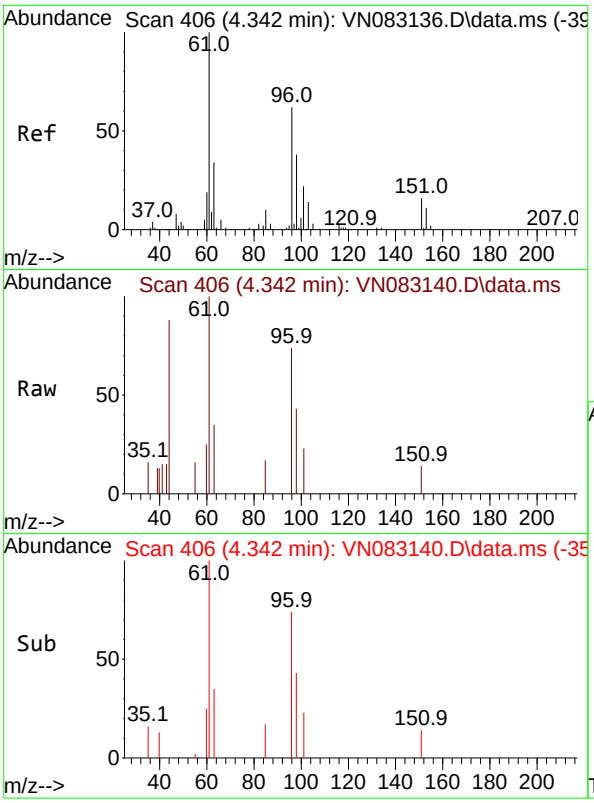


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.946 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:101 Resp: 2064

Ion	Ratio	Lower	Upper
101	100		
85	37.3	38.3	57.5#
151	82.8	59.3	88.9

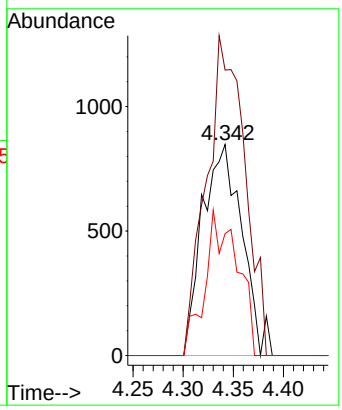




#12
1,1-Dichloroethene
Concen: 1.038 ug/l
RT: 4.342 min Scan# 4(
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 96 Resp: 232

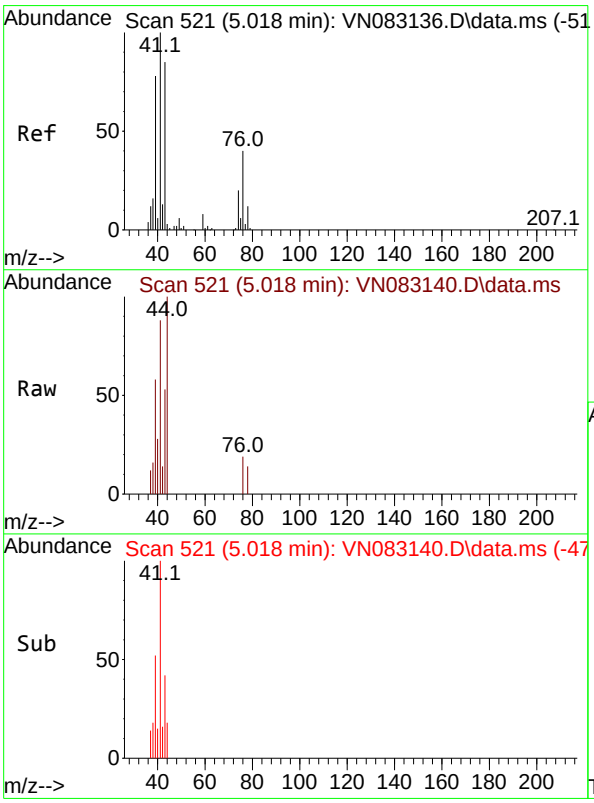
Ion	Ratio	Lower	Upper
96	100		
61	135.3	149.7	224.5#
98	57.8	50.1	75.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

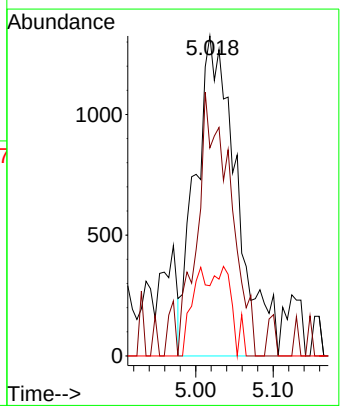
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

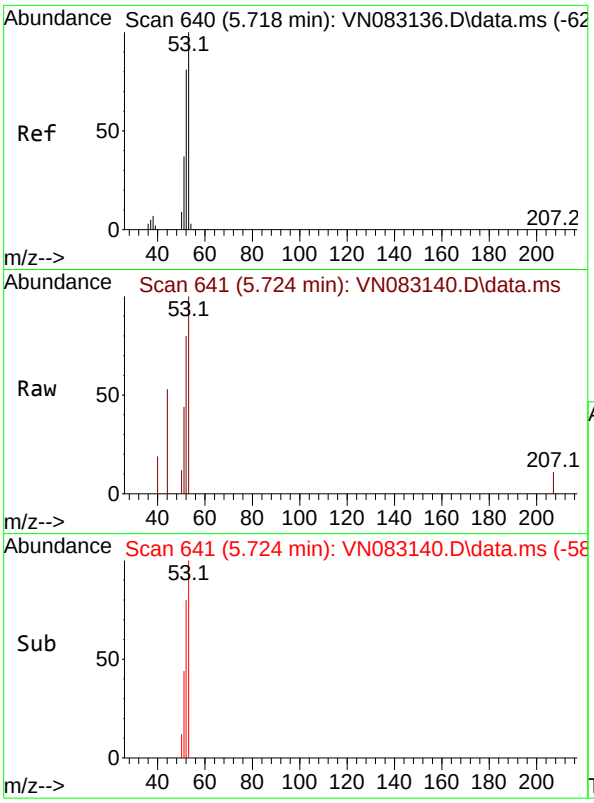


#14
Allyl chloride
Concen: 1.155 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 41 Resp: 4894

Ion	Ratio	Lower	Upper
41	100		
39	65.9	67.8	101.6#
76	11.9	25.8	38.8#





#15
Acrylonitrile
Concen: 5.036 ug/l
RT: 5.724 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

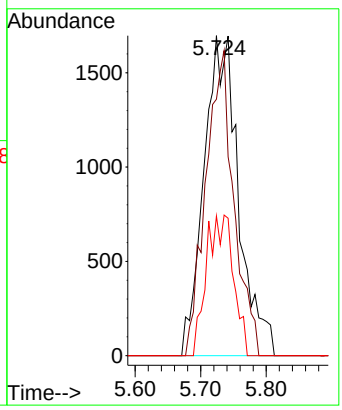
Tgt Ion: 53 Resp: 619

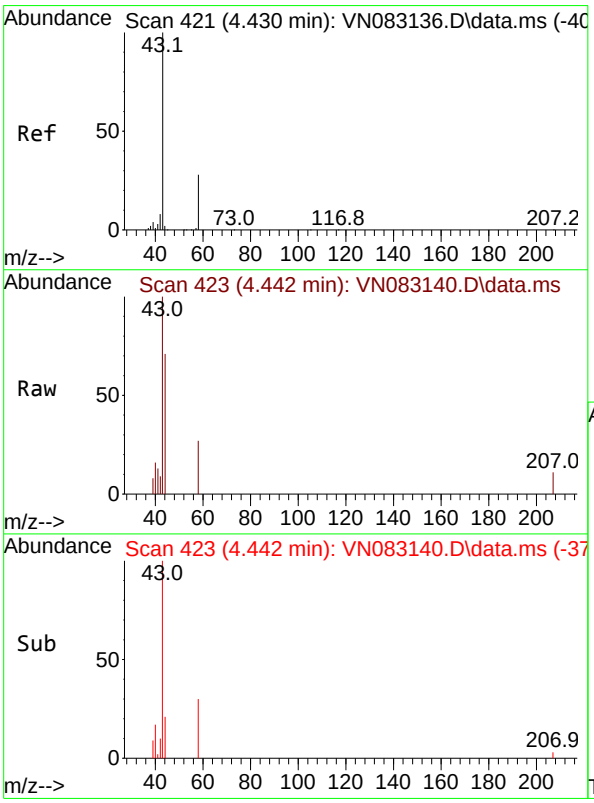
Ion	Ratio	Lower	Upper
53	100		
52	77.5	66.6	100.0
51	34.3	30.1	45.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

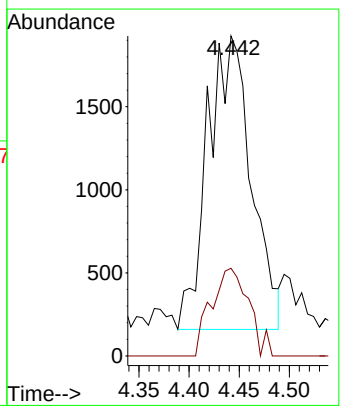


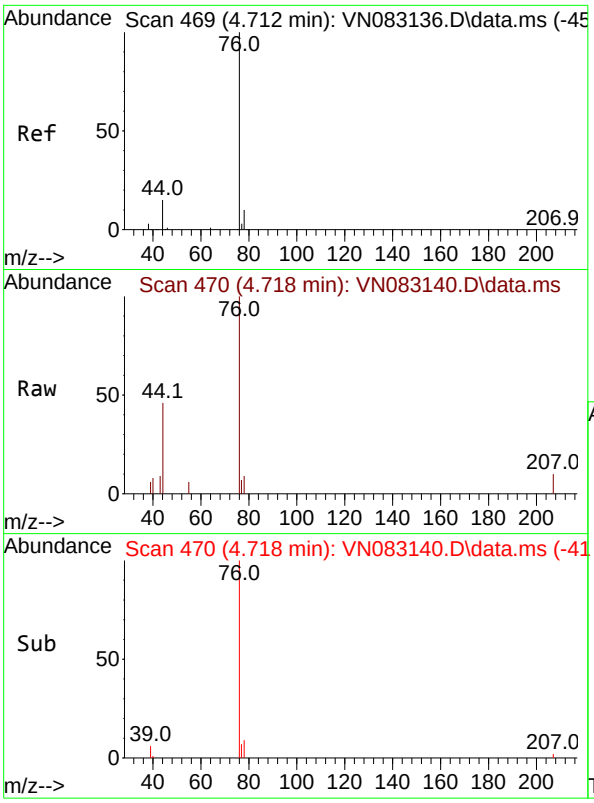


#16
Acetone
Concen: 4.765 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 5369

Ion	Ratio	Lower	Upper
43	100		
58	29.9	21.8	32.6

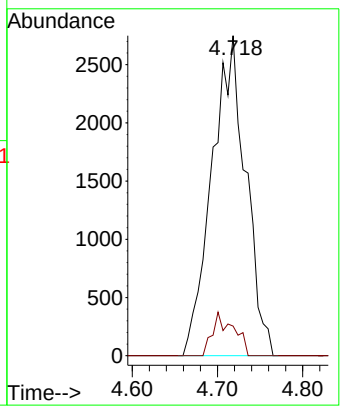




#17
Carbon Disulfide
Concen: 1.159 ug/l
RT: 4.718 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 76 Resp: 760

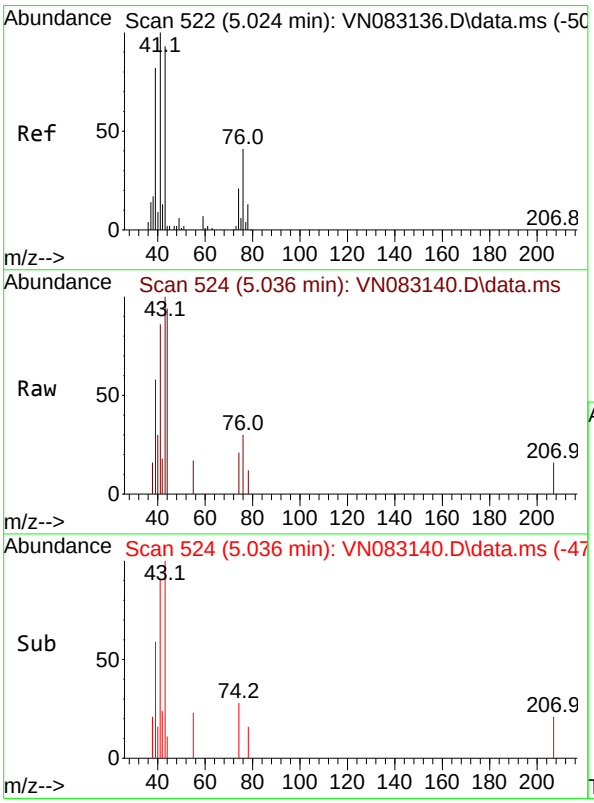
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
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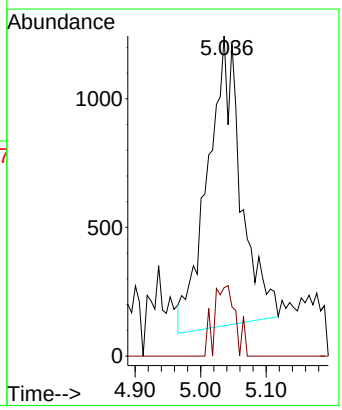
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

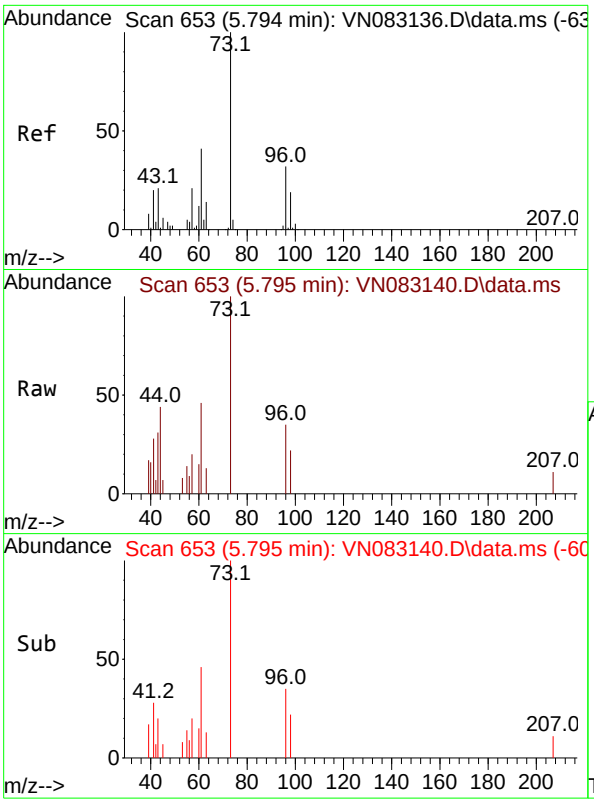


#18
Methyl Acetate
Concen: 1.188 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 3987

Ion	Ratio	Lower	Upper
43	100		
74	15.5	16.3	24.5#

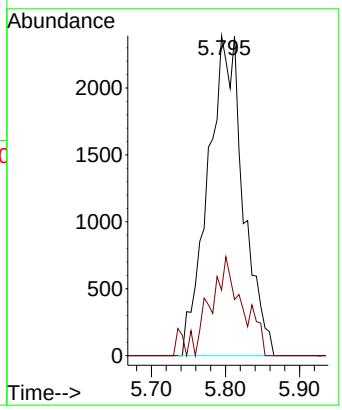




#19
Methyl tert-butyl Ether
Concen: 0.976 ug/l
RT: 5.795 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 73 Resp: 790

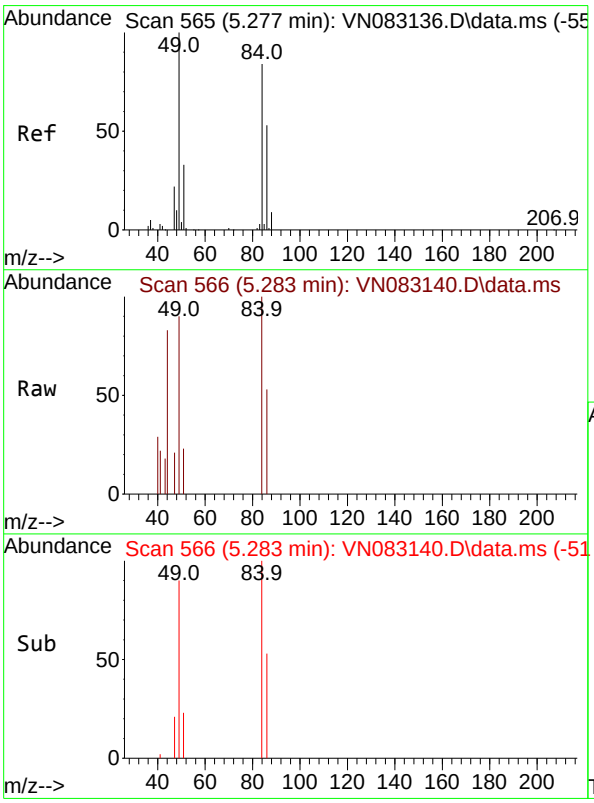
Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.9	26.9



Instrument :
MSVOA_N
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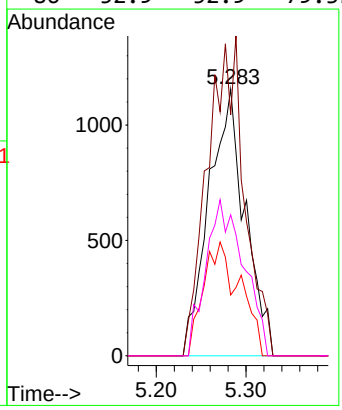
Reviewed By :John Carlone 08/08/2024
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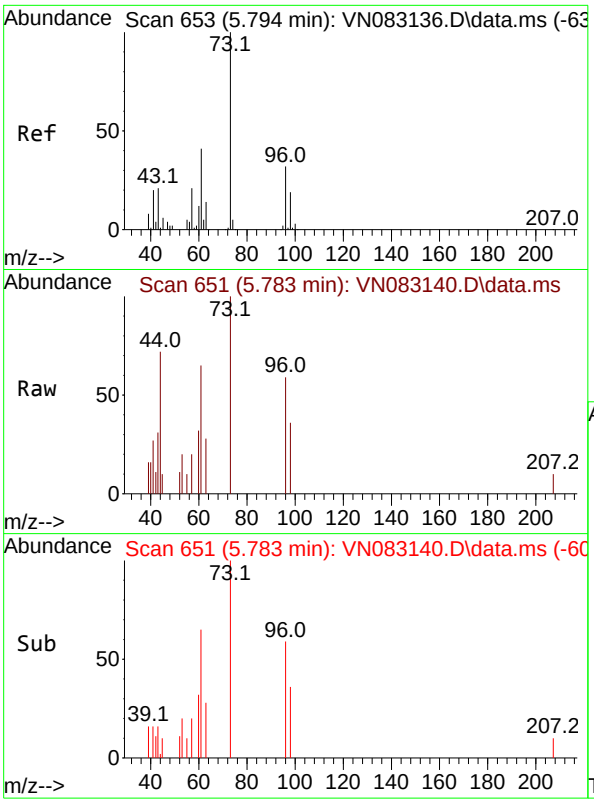


#20
Methylene Chloride
Concen: 1.255 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 84 Resp: 3255

Ion	Ratio	Lower	Upper
84	100		
49	90.3	119.6	179.4#
51	22.8	34.8	52.2#
86	52.9	52.9	79.3#

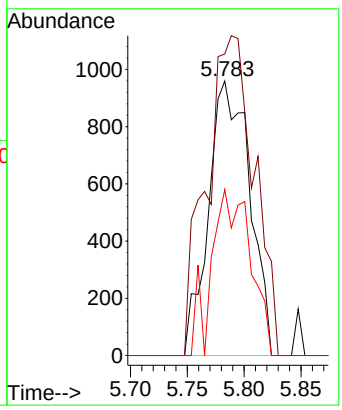




#21
trans-1,2-Dichloroethene
Concen: 1.046 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 96 Resp: 242

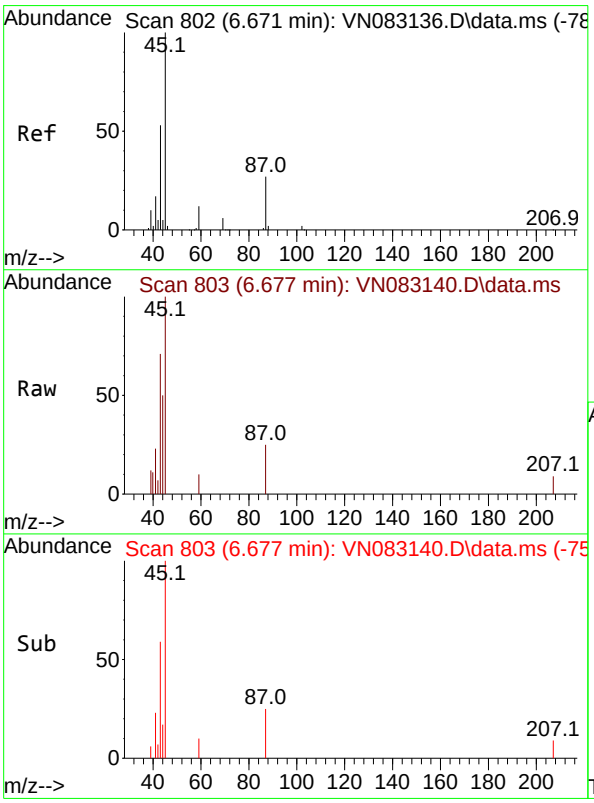
Ion	Ratio	Lower	Upper
96	100		
61	109.9	123.4	185.2
98	60.5	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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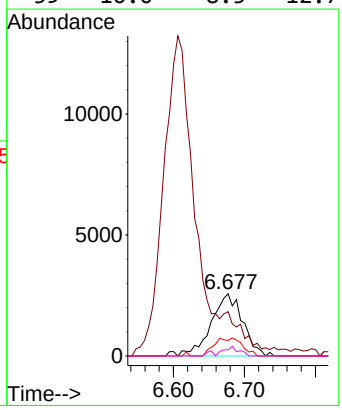
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

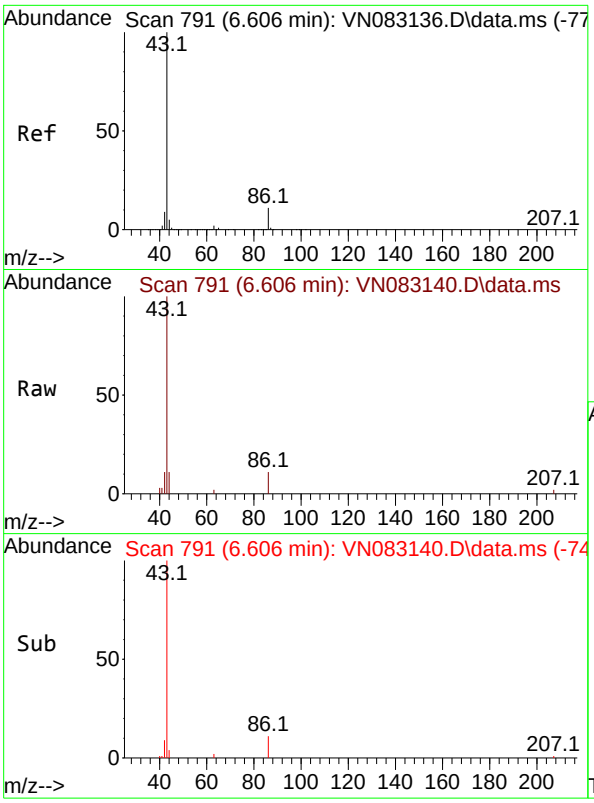


#22
Diisopropyl ether
Concen: 0.988 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 45 Resp: 7871

Ion	Ratio	Lower	Upper
45	100		
43	61.5	44.0	66.0
87	24.9	19.7	29.5
59	10.0	8.5	12.7





#23
Vinyl Acetate
Concen: 4.783 ug/l
RT: 6.606 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

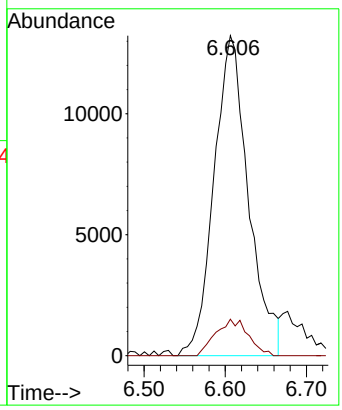
Tgt Ion: 43 Resp: 3904

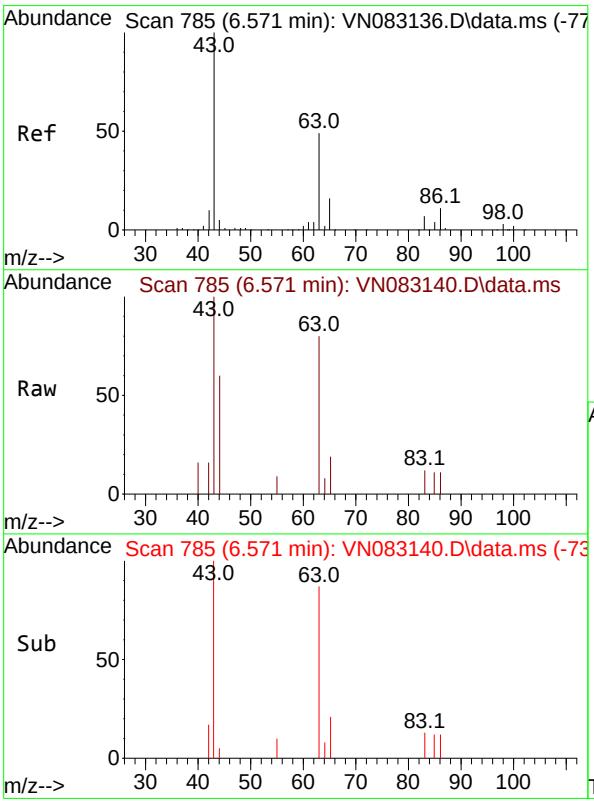
Ion	Ratio	Lower	Upper
43	100		
86	11.4	7.3	10.9#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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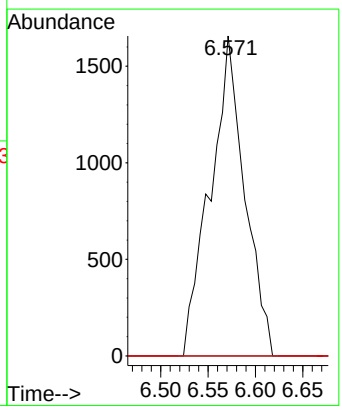


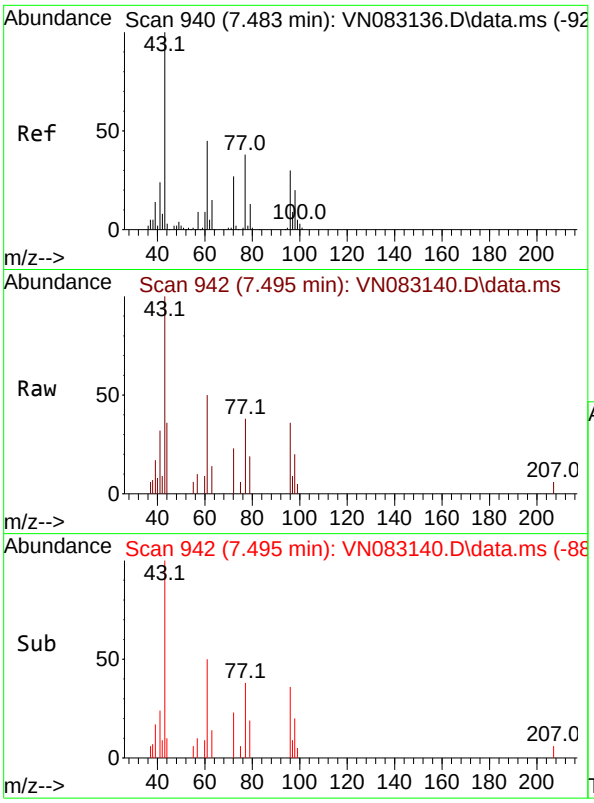


#24
1,1-Dichloroethane
Concen: 0.965 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 63 Resp: 4189

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.3	9.9#
100	0.0	2.0	6.0#

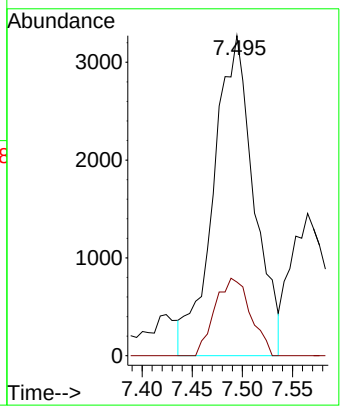




#25
2-Butanone
Concen: 5.297 ug/l
RT: 7.495 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 916

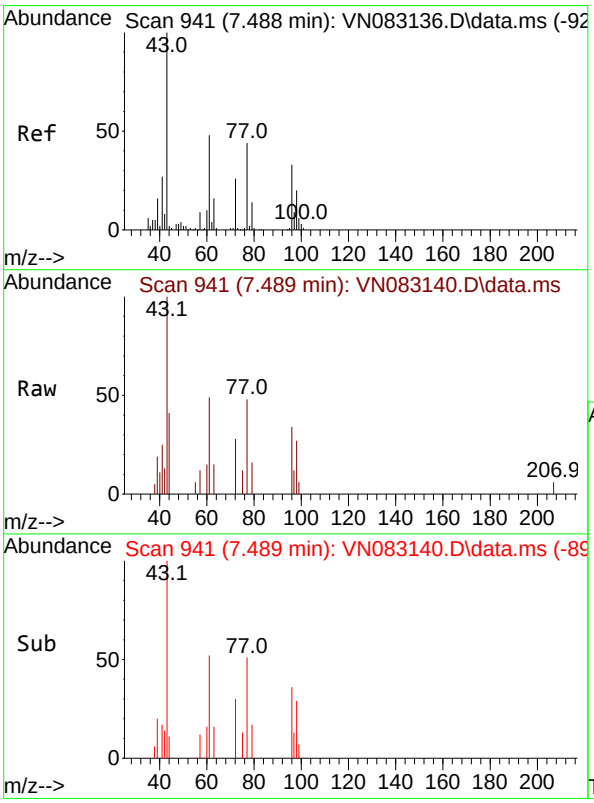
Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.2	27.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

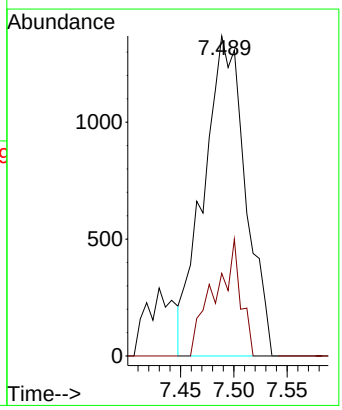
Reviewed By :John Carlone 08/08/2024
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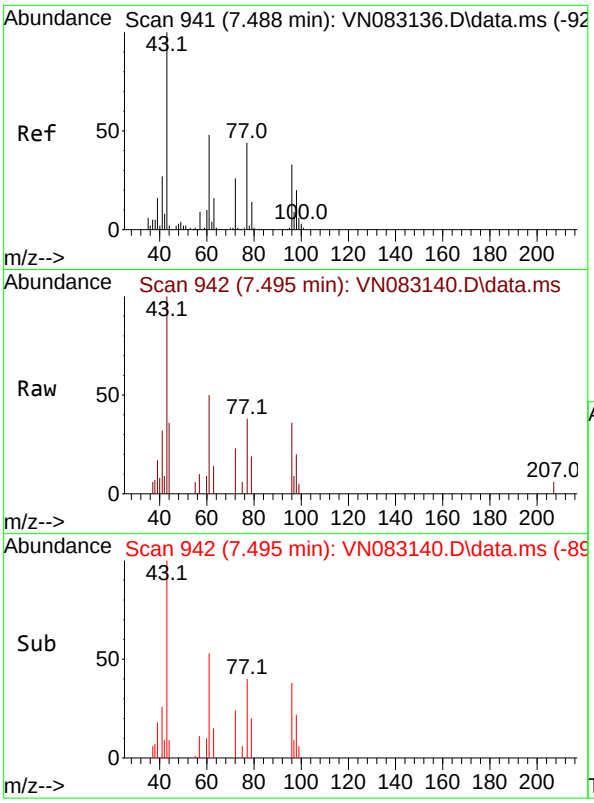


#26
2,2-Dichloropropane
Concen: 0.928 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 77 Resp: 3741

Ion	Ratio	Lower	Upper
77	100		
97	22.9	10.3	30.9

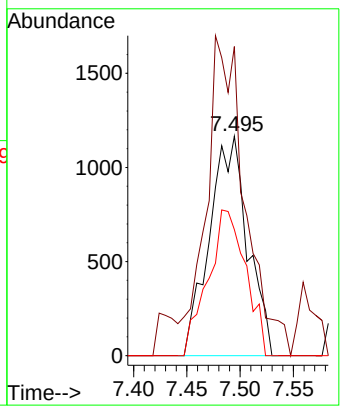




#27
cis-1,2-Dichloroethene
Concen: 1.044 ug/l
RT: 7.495 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 96 Resp: 291

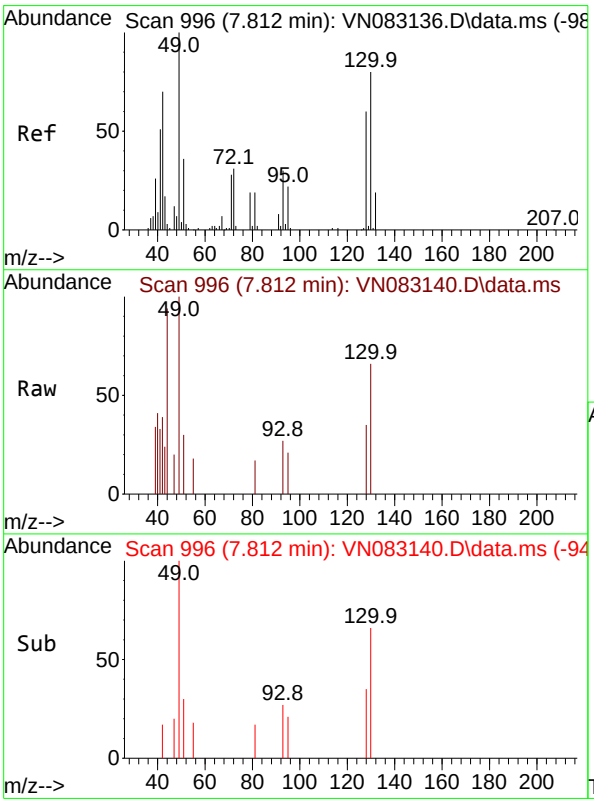
Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	329.6
98	65.4	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

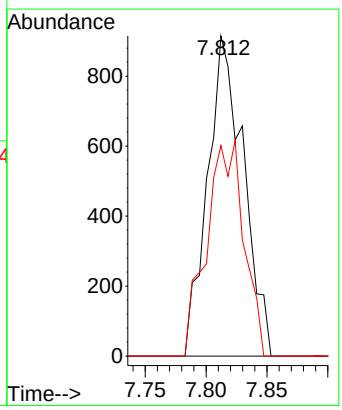
Reviewed By :John Carlone 08/08/2024
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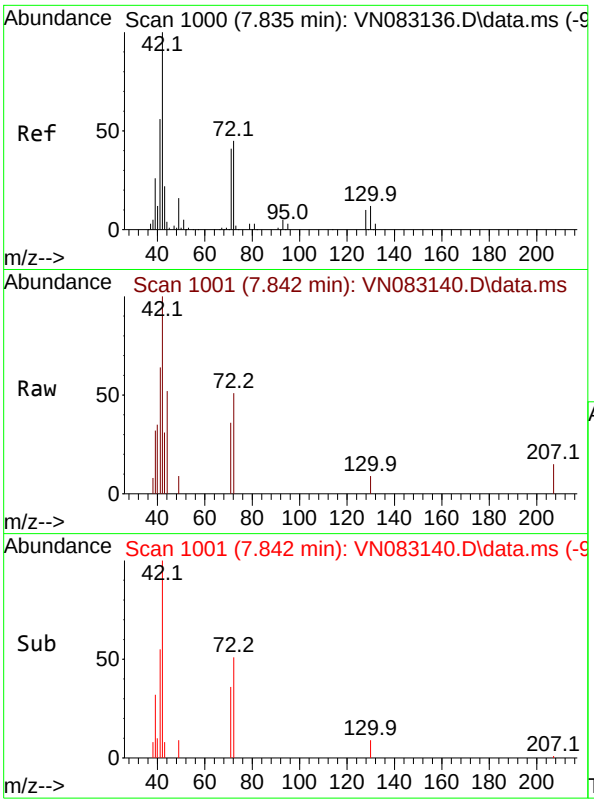


#28
Bromochloromethane
Concen: 1.061 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 49 Resp: 1883

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	69.5	50.5	75.7

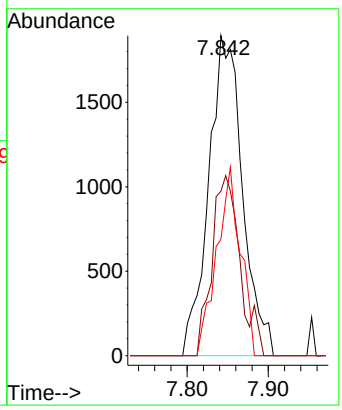




#29
Tetrahydrofuran
Concen: 4.909 ug/l
RT: 7.842 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 42 Resp: 549(

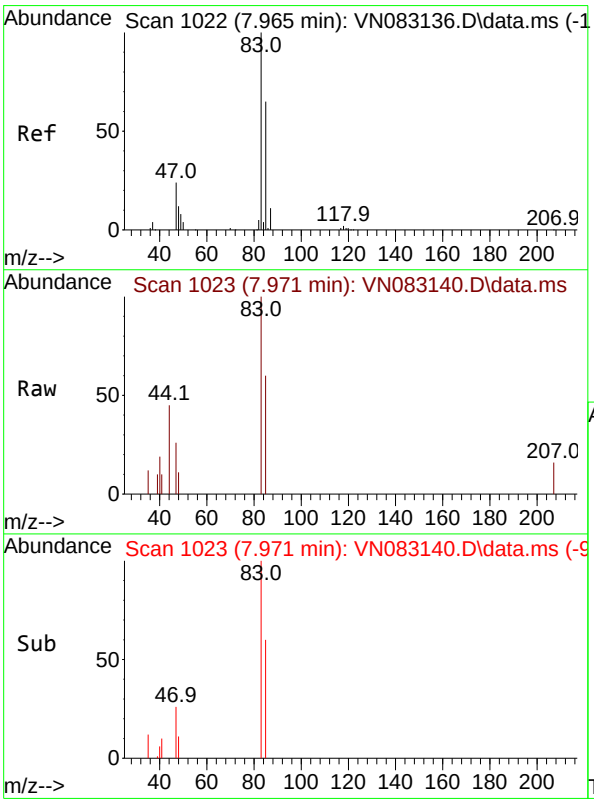
Ion	Ratio	Lower	Upper
42	100		
72	46.5	30.0	45.0#
71	41.2	28.3	42.5



Instrument :
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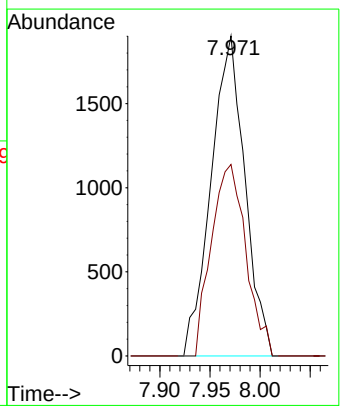
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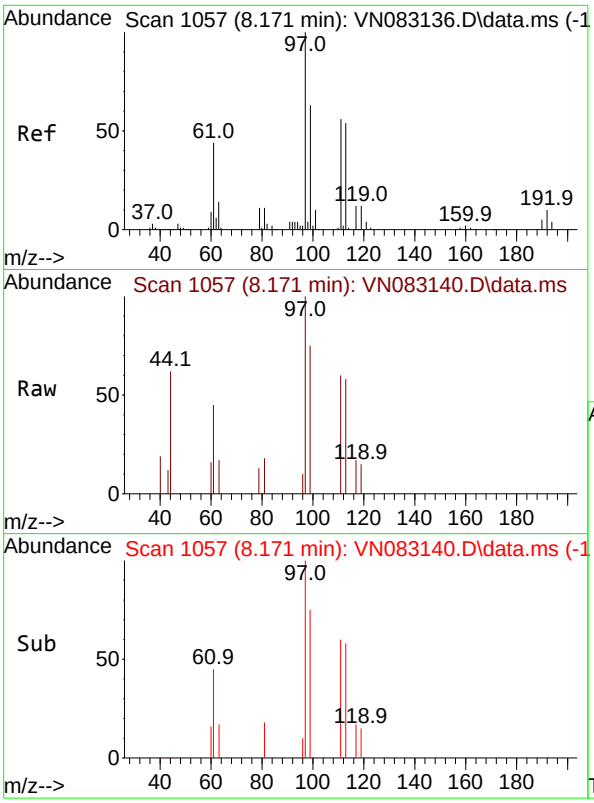


#30
Chloroform
Concen: 0.988 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 83 Resp: 4457

Ion	Ratio	Lower	Upper
83	100		
85	59.8	50.9	76.3





#32
1,1,1-Trichloroethane
Concen: 0.955 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

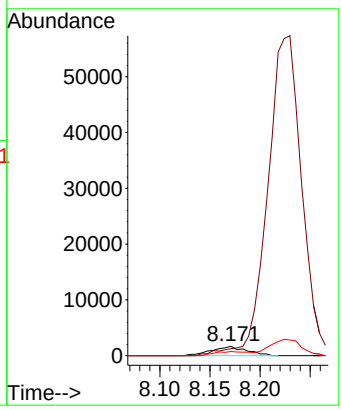
Tgt Ion: 97 Resp: 407

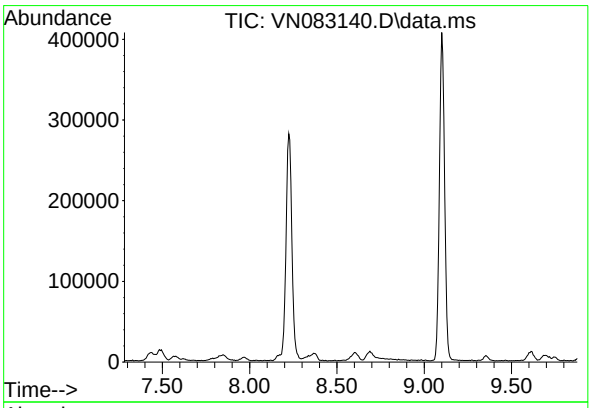
Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.0	78.0#
61	44.6	42.1	63.1

Instrument :
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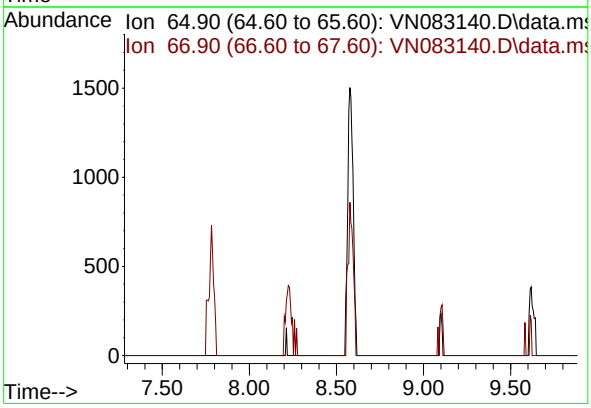


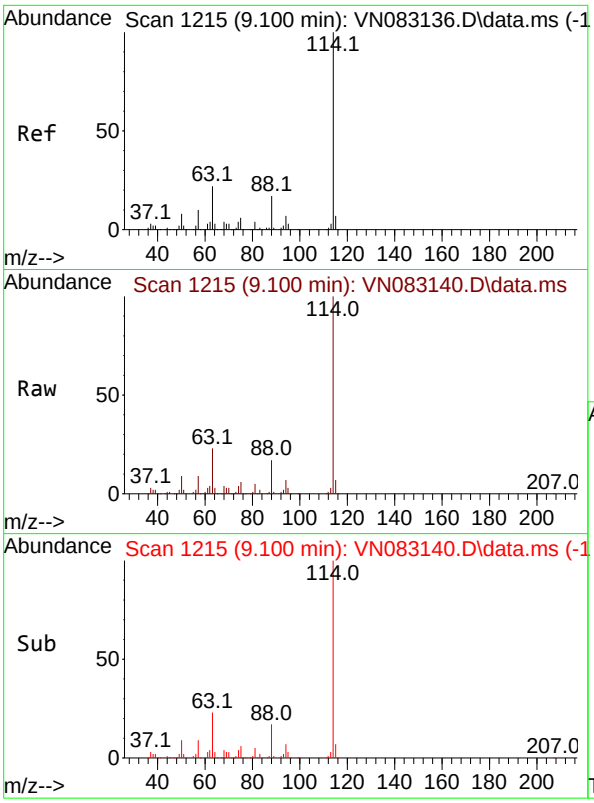
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.58 min

Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	52.2





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

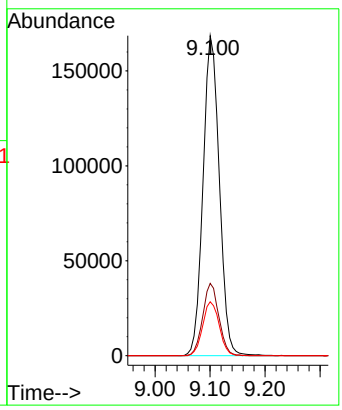
Tgt Ion:114 Resp: 34739

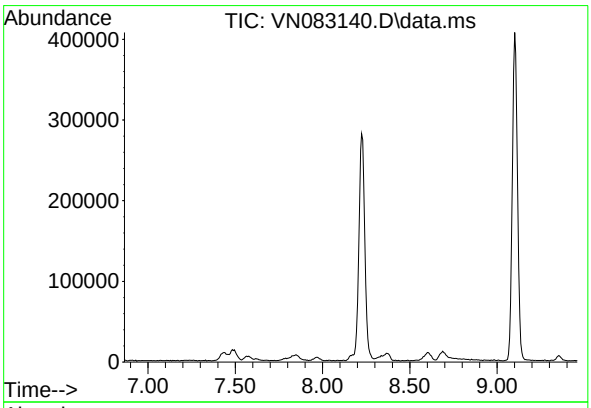
Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	44.6
88	16.9	0.0	31.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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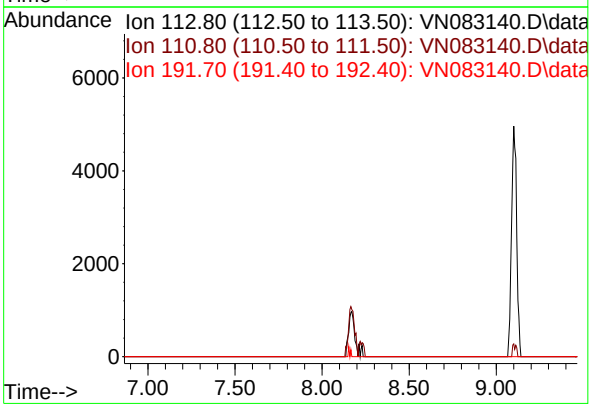


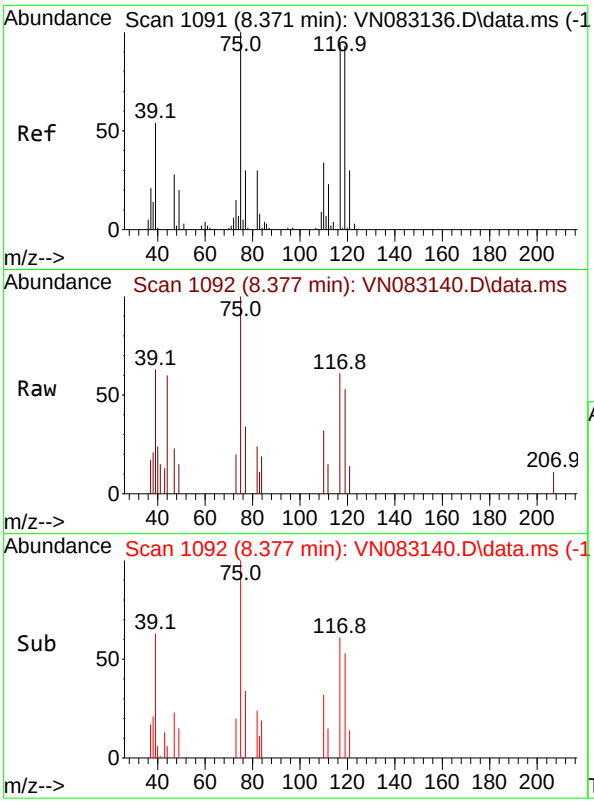
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 8.16 min

Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	103.0
192	18.6





#36
1,1-Dichloropropene
Concen: 1.034 ug/l
RT: 8.377 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

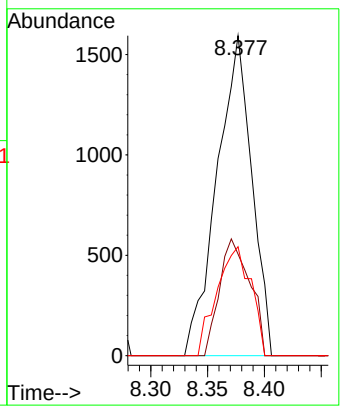
Tgt Ion: 75 Resp: 339

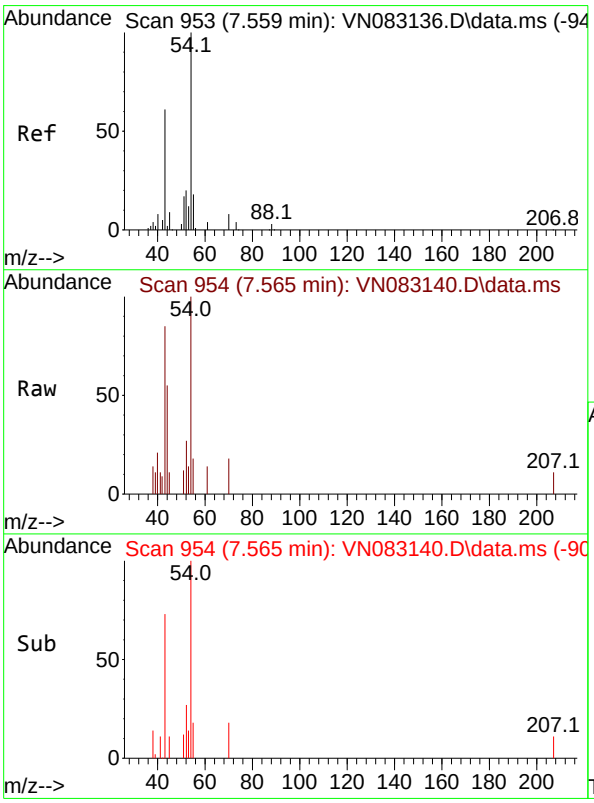
Ion	Ratio	Lower	Upper
75	100		
110	32.0	16.3	48.9
77	33.3	24.6	37.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

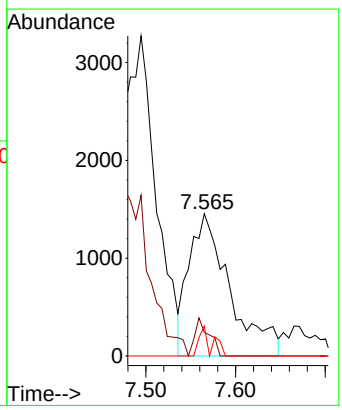


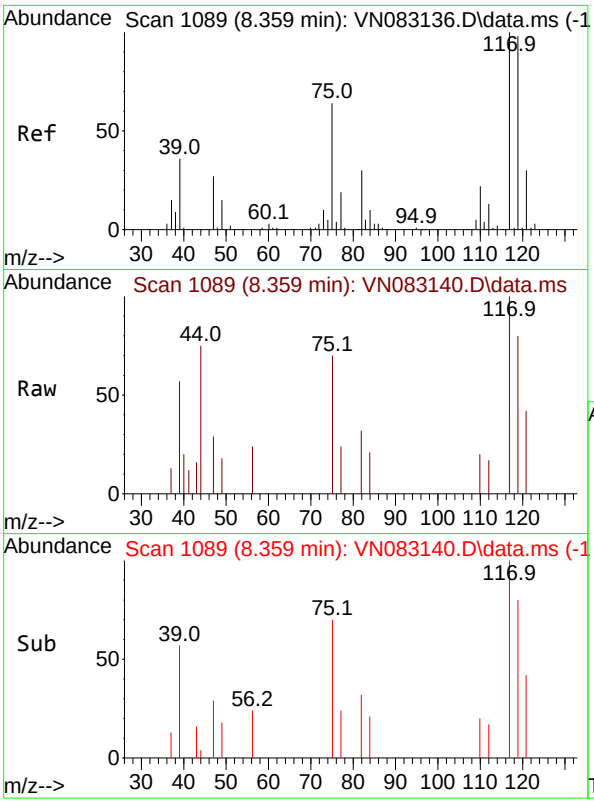


#37
Ethyl Acetate
Concen: 1.257 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 4617

Ion	Ratio	Lower	Upper
43	100		
61	9.2	9.3	13.9#
70	3.8	7.0	10.6#

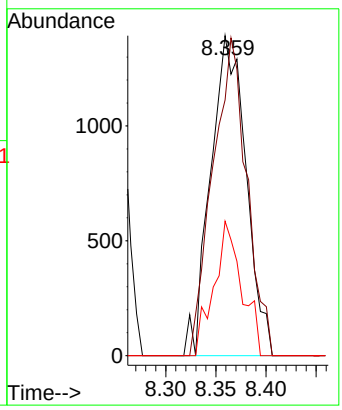




#38
Carbon Tetrachloride
Concen: 0.926 ug/l
RT: 8.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:117 Resp: 342

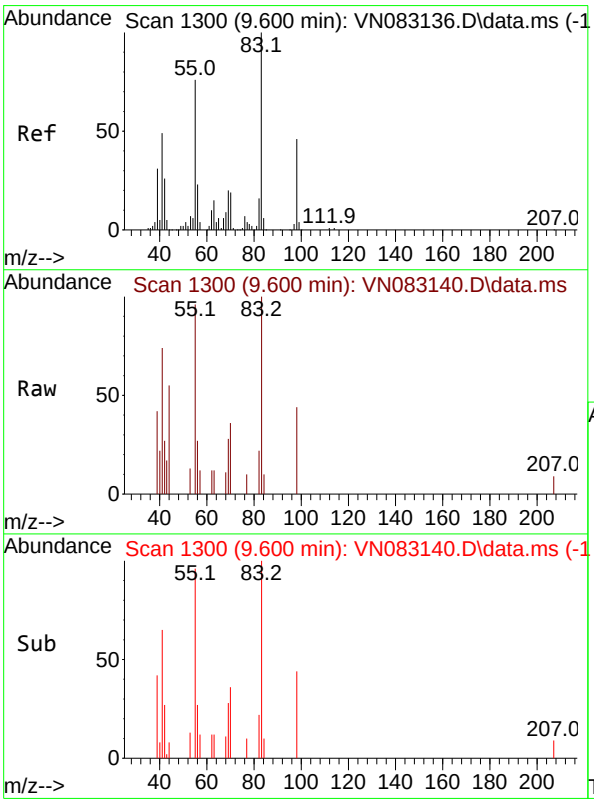
Ion	Ratio	Lower	Upper
117	100		
119	79.9	74.9	112.3
121	42.0	24.3	36.5#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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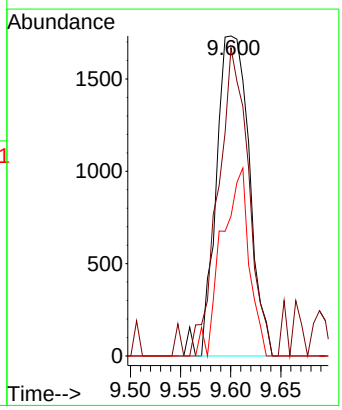
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

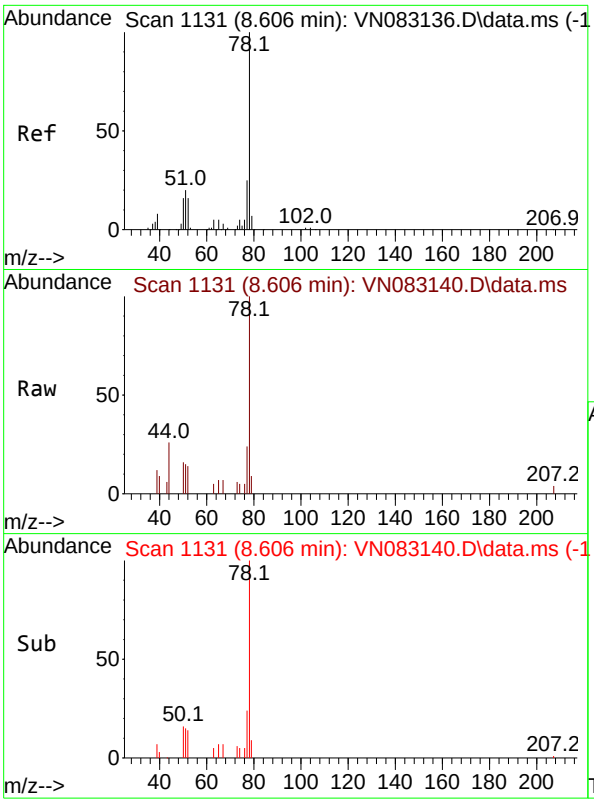


#39
Methylcyclohexane
Concen: 0.986 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 83 Resp: 3974

Ion	Ratio	Lower	Upper
83	100		
55	96.3	66.4	99.6
98	43.7	40.7	61.1

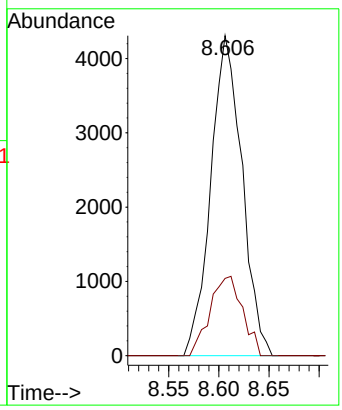




#40
Benzene
Concen: 0.955 ug/l
RT: 8.606 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 78 Resp: 933

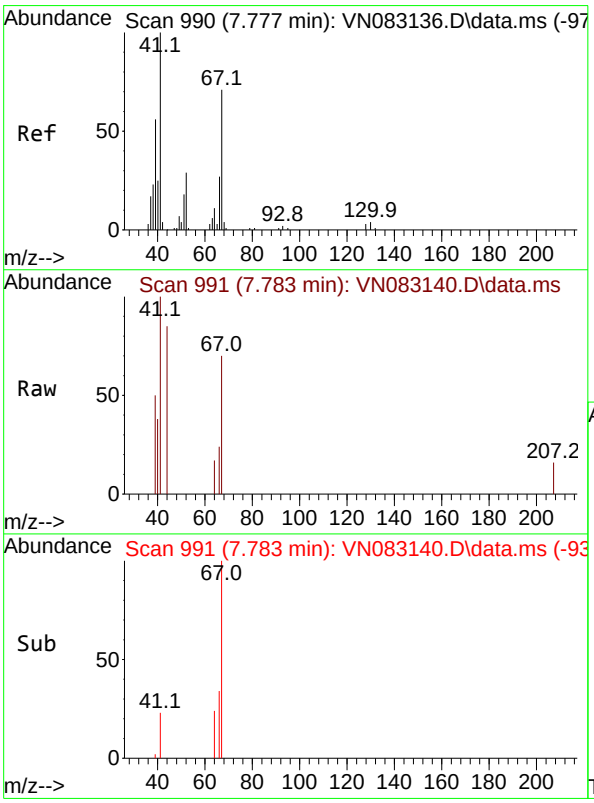
Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

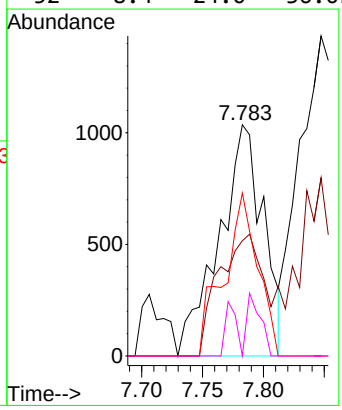
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

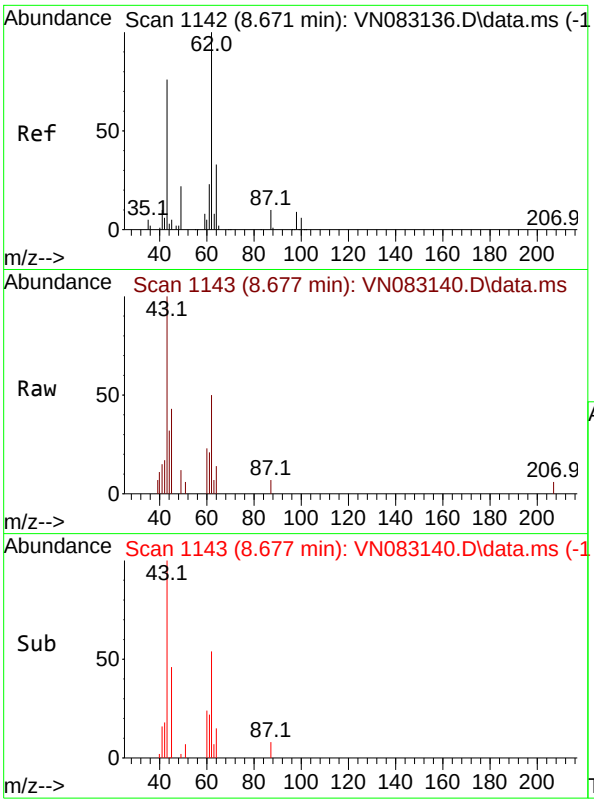


#41
Methacrylonitrile
Concen: 1.254 ug/l
RT: 7.783 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 41 Resp: 2618

Ion	Ratio	Lower	Upper
41	100		
39	52.4	45.5	68.3
67	54.2	50.5	75.7
52	8.4	24.0	36.0#

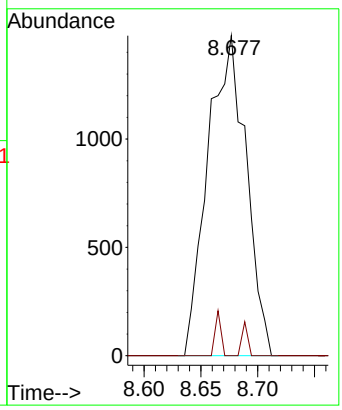




#42
1,2-Dichloroethane
Concen: 0.971 ug/l
RT: 8.677 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 62 Resp: 345

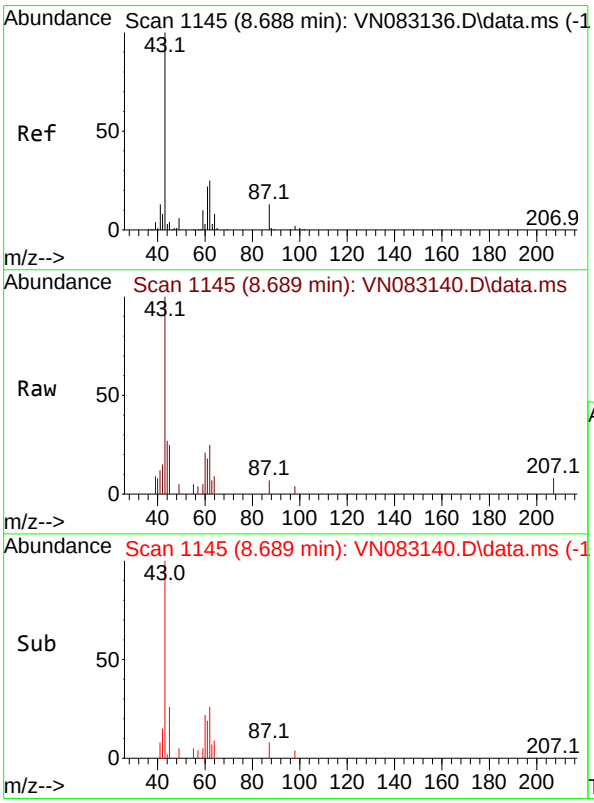
Ion	Ratio	Lower	Upper
62	100		
98	1.6	0.0	15.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

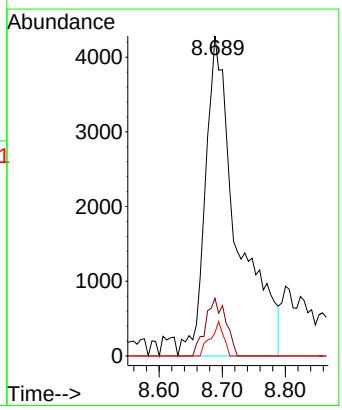
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

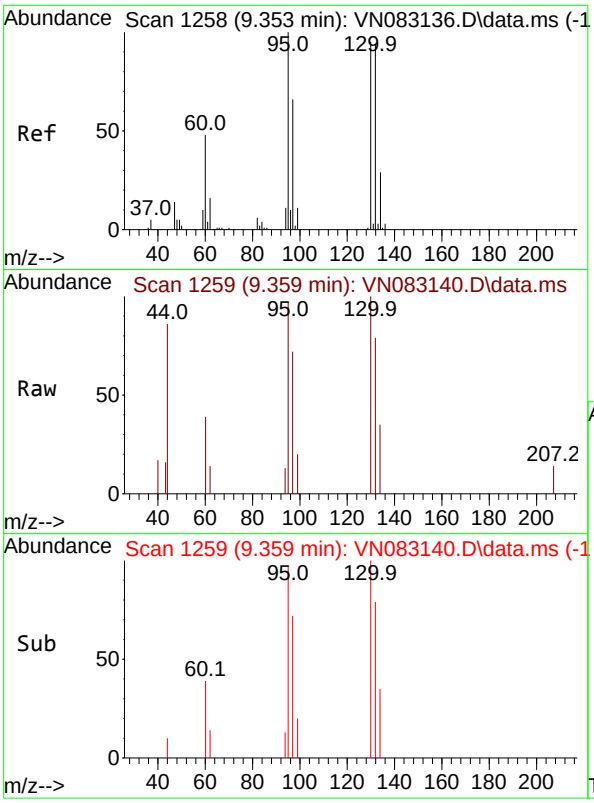


#43
Isopropyl Acetate
Concen: 0.753 ug/l
RT: 8.689 min Scan# 1145
Delta R.T. 0.001 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 14981

Ion	Ratio	Lower	Upper
43	100		
61	11.5	17.8	26.6#
87	4.4	8.2	12.2#

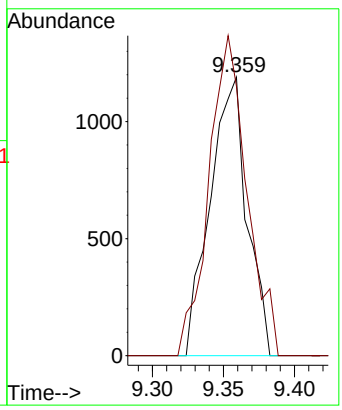




#44
Trichloroethene
Concen: 0.925 ug/l
RT: 9.359 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:130 Resp: 215

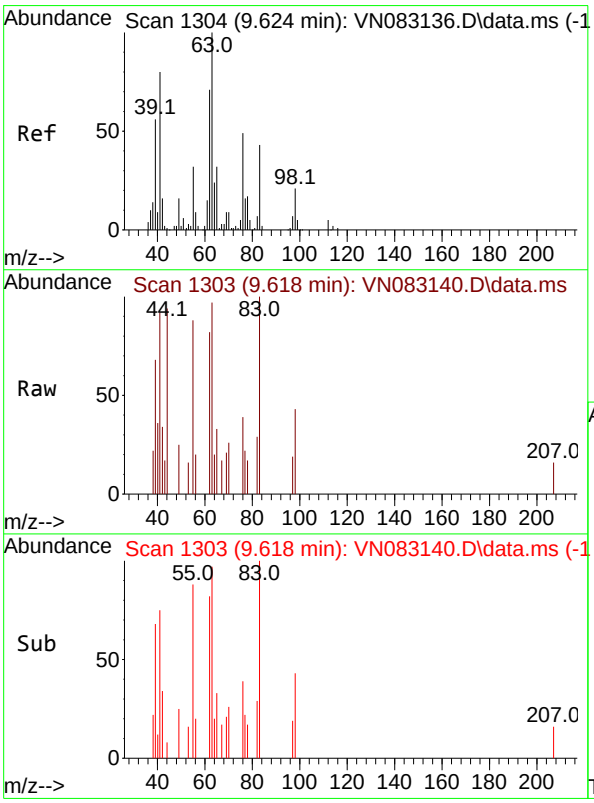
Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	197.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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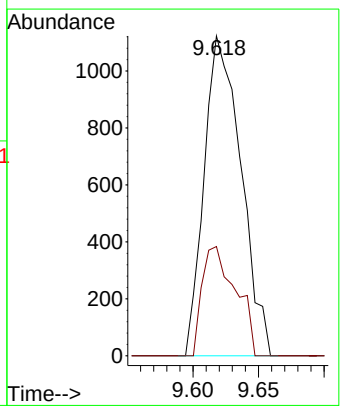
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

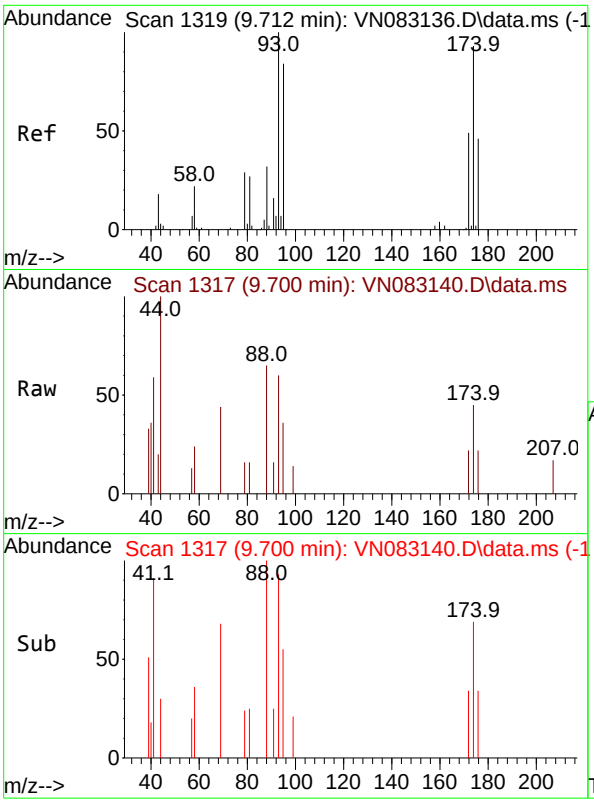


#45
1,2-Dichloropropane
Concen: 0.946 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 63 Resp: 2194

Ion	Ratio	Lower	Upper
63	100		
65	34.2	24.4	36.6

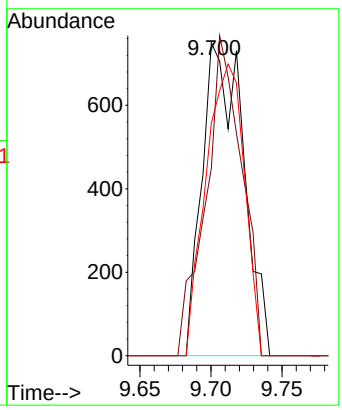




#46
Dibromomethane
Concen: 0.911 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 93 Resp: 151

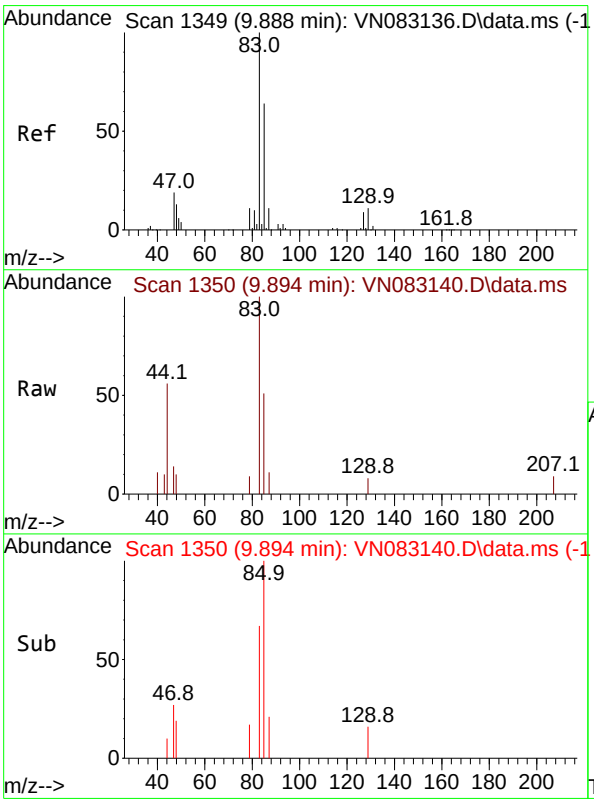
Ion	Ratio	Lower	Upper
93	100		
95	89.4	65.8	98.6
174	87.3	71.7	107.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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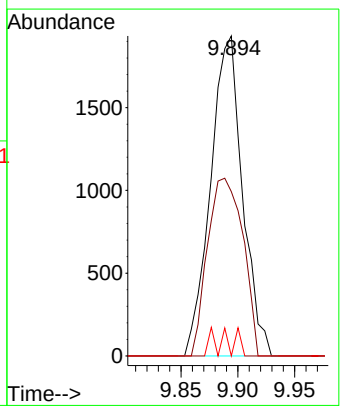
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

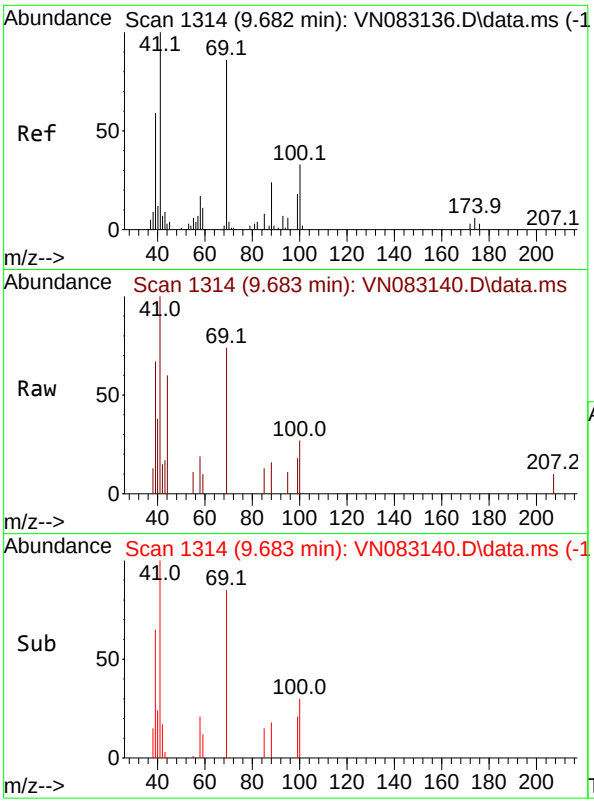


#47
Bromodichloromethane
Concen: 1.015 ug/l
RT: 9.894 min Scan# 1350
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 83 Resp: 3783

Ion	Ratio	Lower	Upper
83	100		
85	51.4	51.1	76.7
127	0.0	7.2	10.8#





#48
Methyl methacrylate
Concen: 1.159 ug/l
RT: 9.683 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

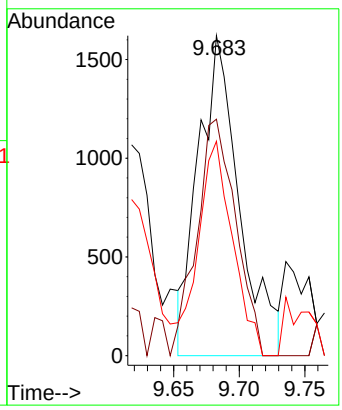
Tgt Ion: 41 Resp: 351

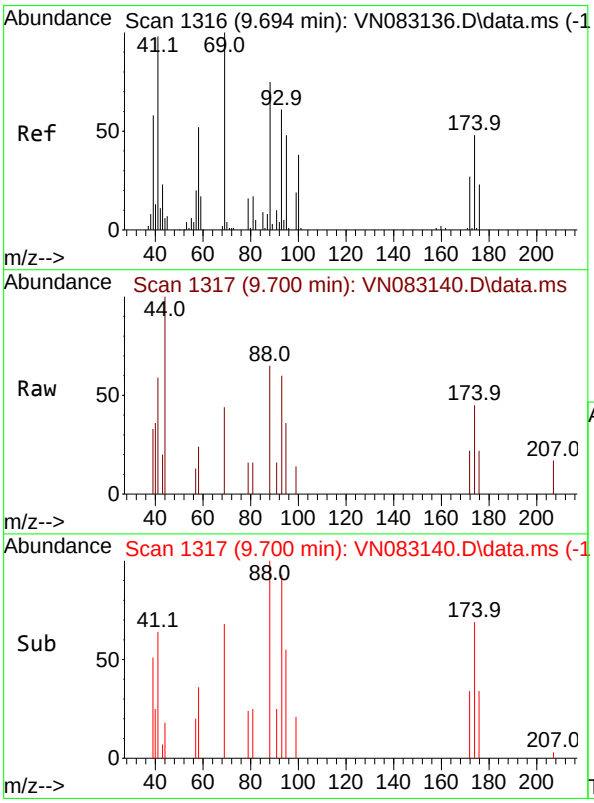
Ion	Ratio	Lower	Upper
41	100		
69	70.6	56.3	84.5
39	57.3	50.3	75.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

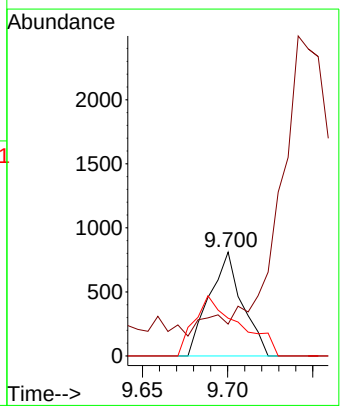


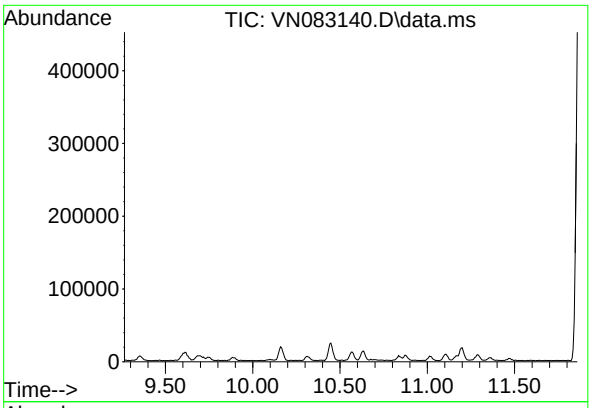


#49
1,4-Dioxane
Concen: 19.880 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 88 Resp: 1089

Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.8#
58	79.4	59.4	89.0





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.56 min

Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

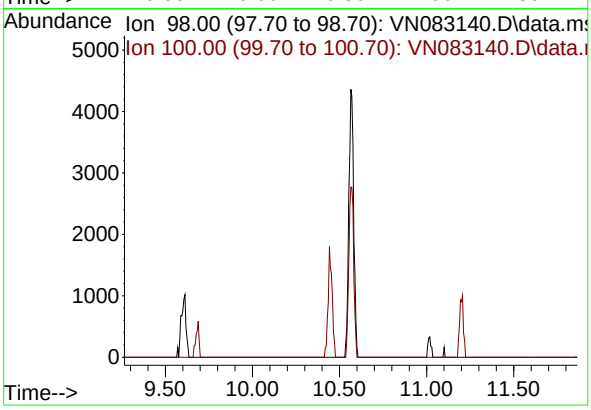
Tgt Ion: 98

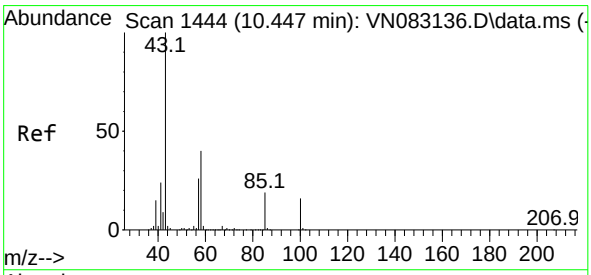
Sig	Exp Ratio
98	100
100	64.4

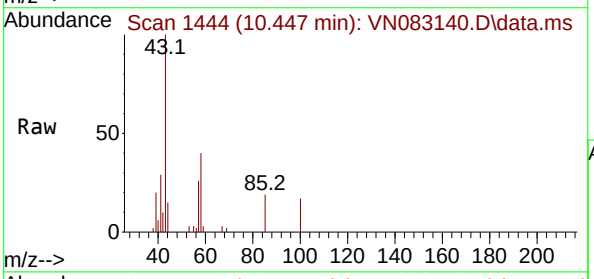
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

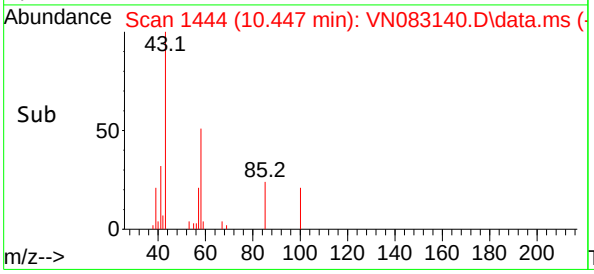
Manual Integrations
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Supervised By :Mahesh Dadoda 08/09/2024





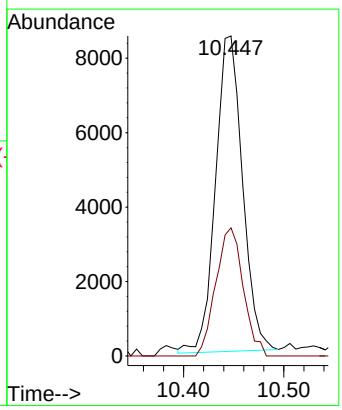


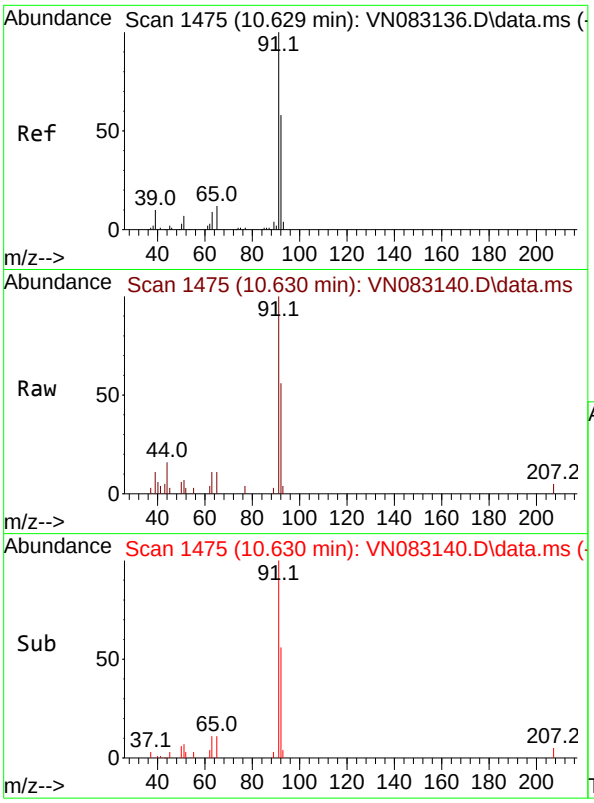


#51
4-Methyl-2-Pentanone
Concen: 4.570 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 15872

Ion	Ratio	Lower	Upper
43	100		
58	41.1	28.2	42.4





#52
Toluene
Concen: 0.927 ug/l
RT: 10.630 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

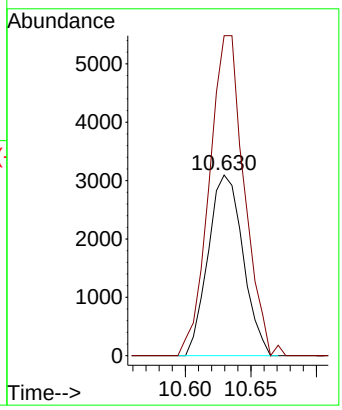
Tgt Ion: 92 Resp: 572

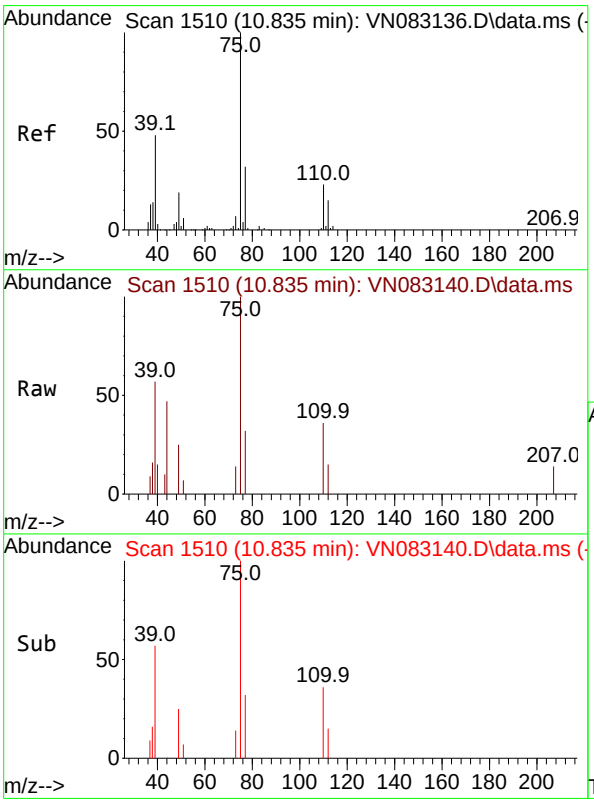
Ion	Ratio	Lower	Upper
92	100		
91	178.1	139.4	209.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

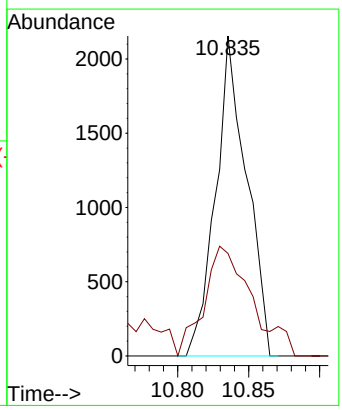


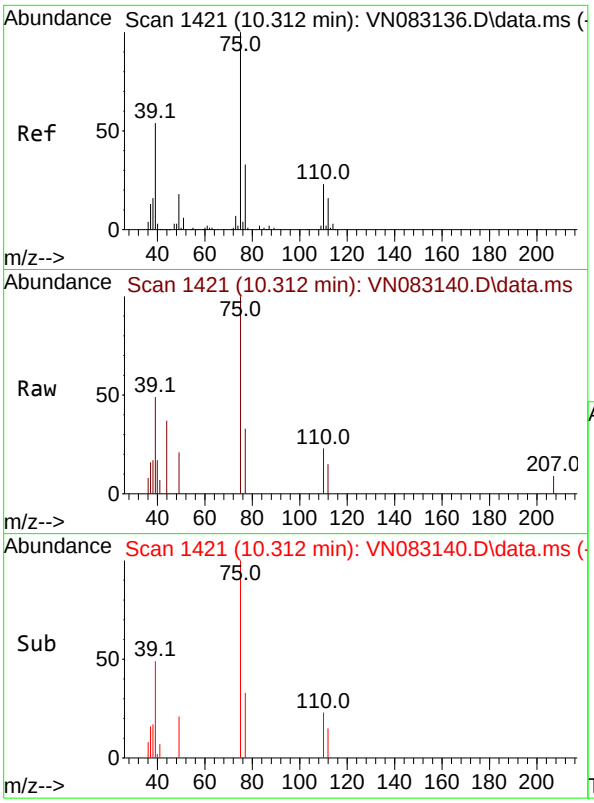


#53
t-1,3-Dichloropropene
Concen: 0.851 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 75 Resp: 3260

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.7	38.5

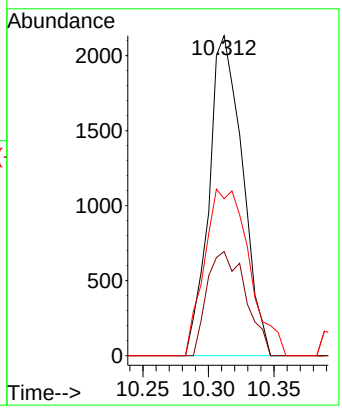




#54
cis-1,3-Dichloropropene
Concen: 0.932 ug/l
RT: 10.312 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 75 Resp: 379

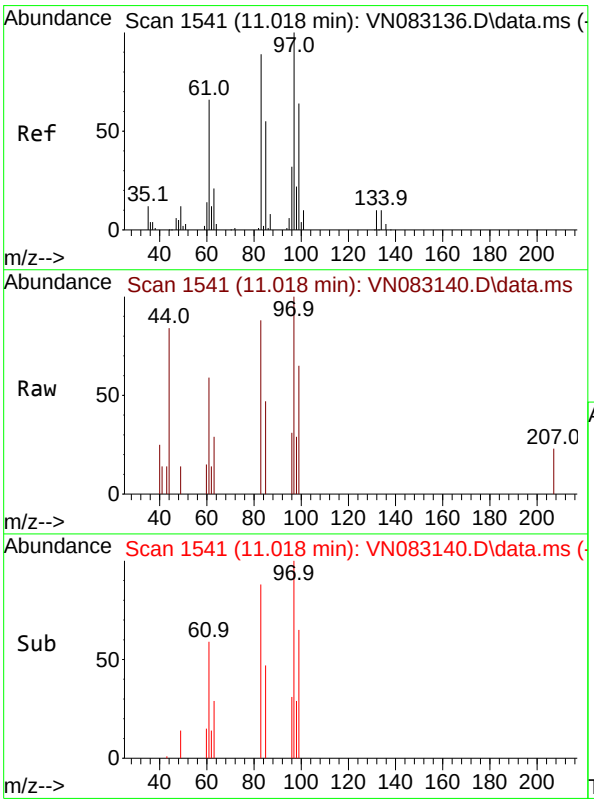
Ion	Ratio	Lower	Upper
75	100		
77	32.5	24.3	36.5
39	49.0	50.5	75.7#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

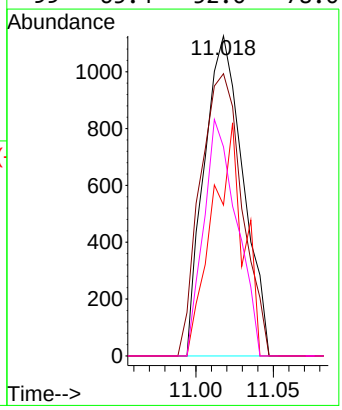
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

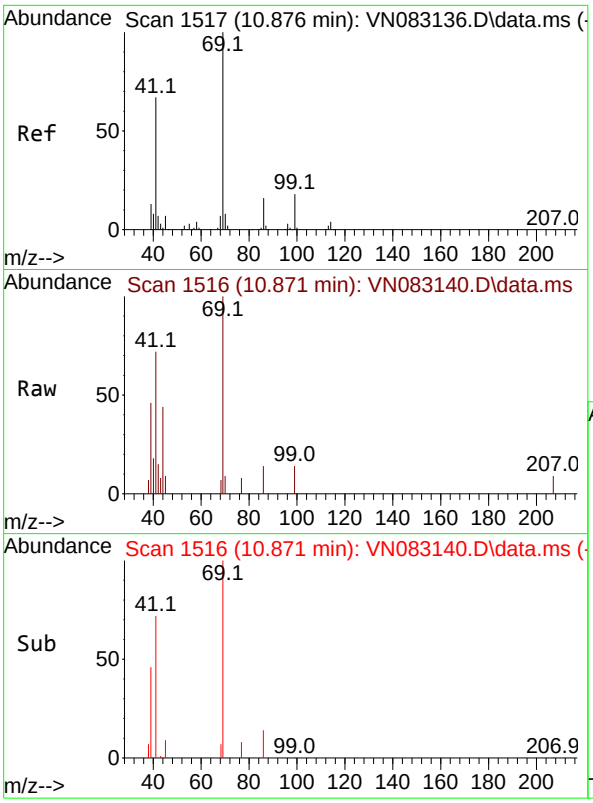


#55
1,1,2-Trichloroethane
Concen: 0.887 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 97 Resp: 1963

Ion	Ratio	Lower	Upper
97	100		
83	88.2	71.4	107.0
85	47.2	45.8	68.6
99	65.4	52.0	78.0

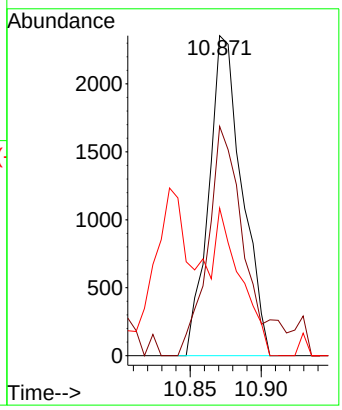




#56
Ethyl methacrylate
Concen: 0.921 ug/l
RT: 10.871 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 69 Resp: 384

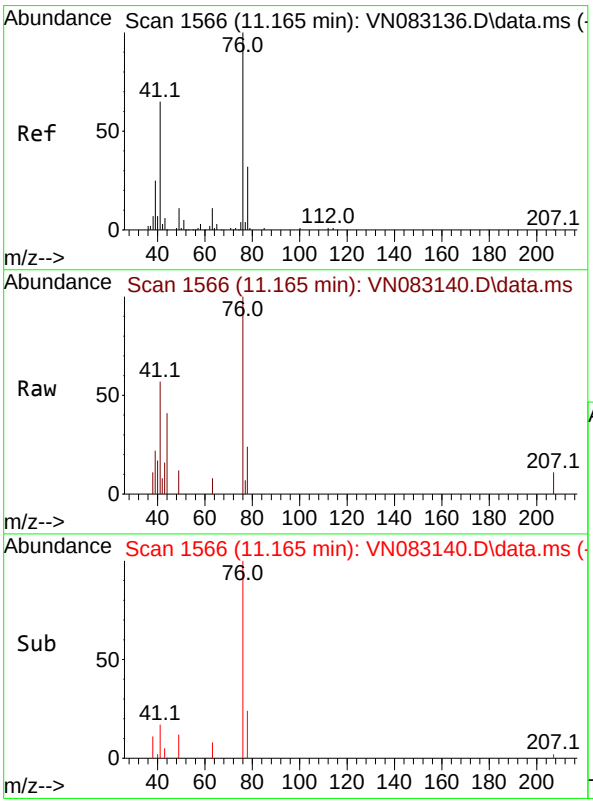
Ion	Ratio	Lower	Upper
69	100		
41	83.6	63.4	95.2
39	33.7	37.4	56.0#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

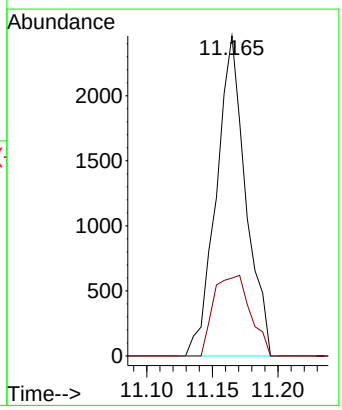
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

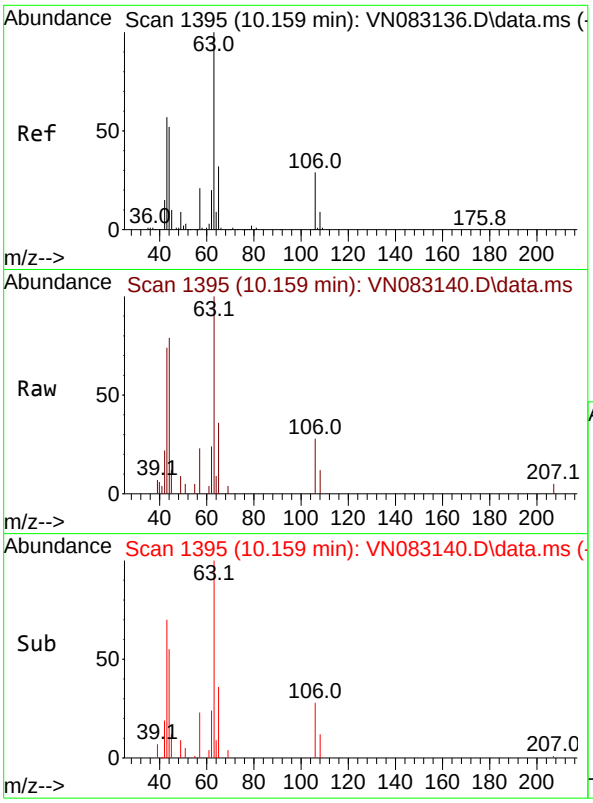


#57
1,3-Dichloropropane
Concen: 0.973 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 76 Resp: 3837

Ion	Ratio	Lower	Upper
76	100		
78	31.3	25.6	38.4





#58
2-Chloroethyl Vinyl ether
Concen: 4.794 ug/l
RT: 10.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

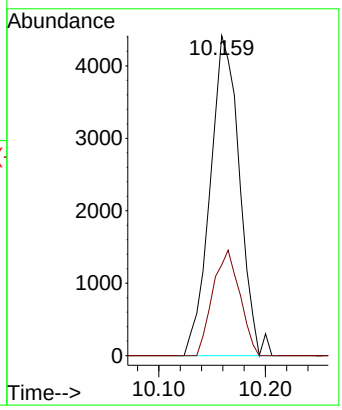
Tgt Ion: 63 Resp: 845

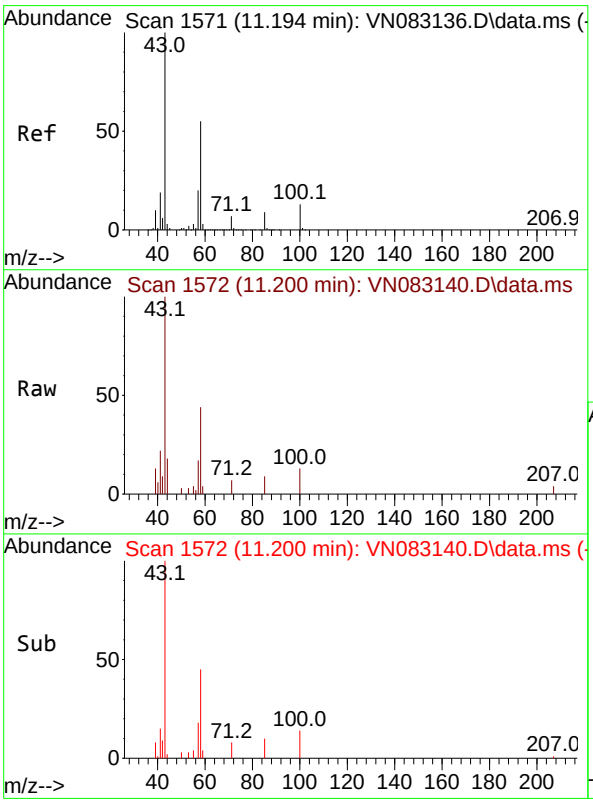
Ion	Ratio	Lower	Upper
63	100		
106	30.3	21.4	32.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

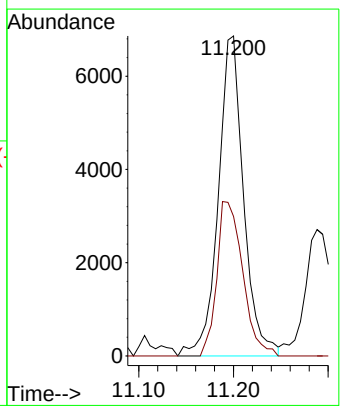


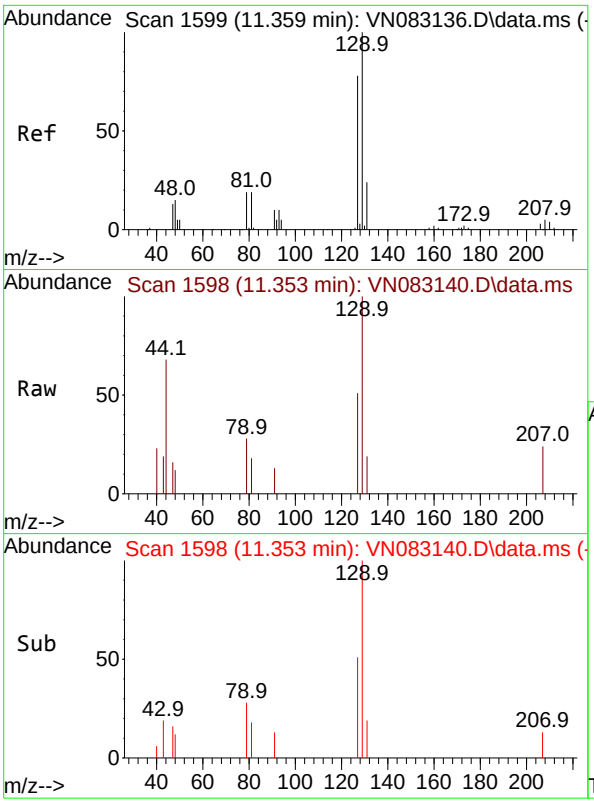


#59
2-Hexanone
Concen: 4.749 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 12761

Ion	Ratio	Lower	Upper
43	100		
58	49.3	24.6	73.8

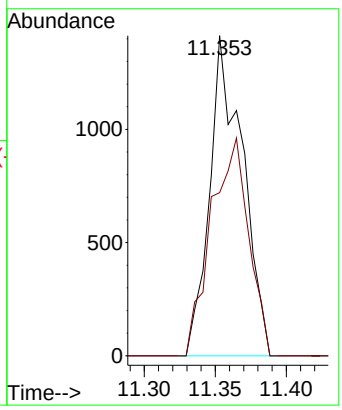




#60
Dibromochloromethane
Concen: 0.853 ug/l
RT: 11.353 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:129 Resp: 228

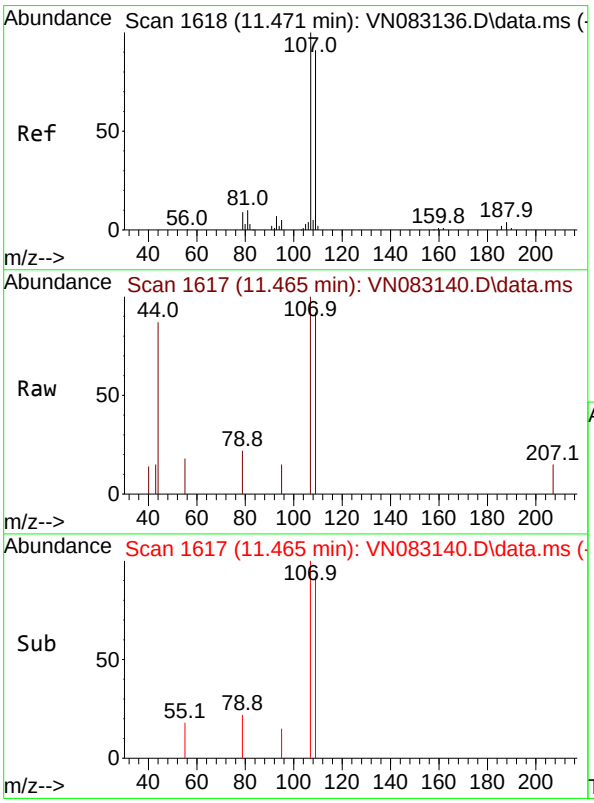
Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.2	117.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

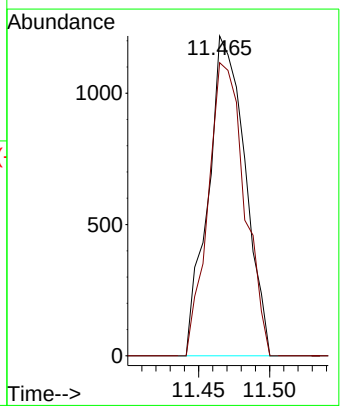
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

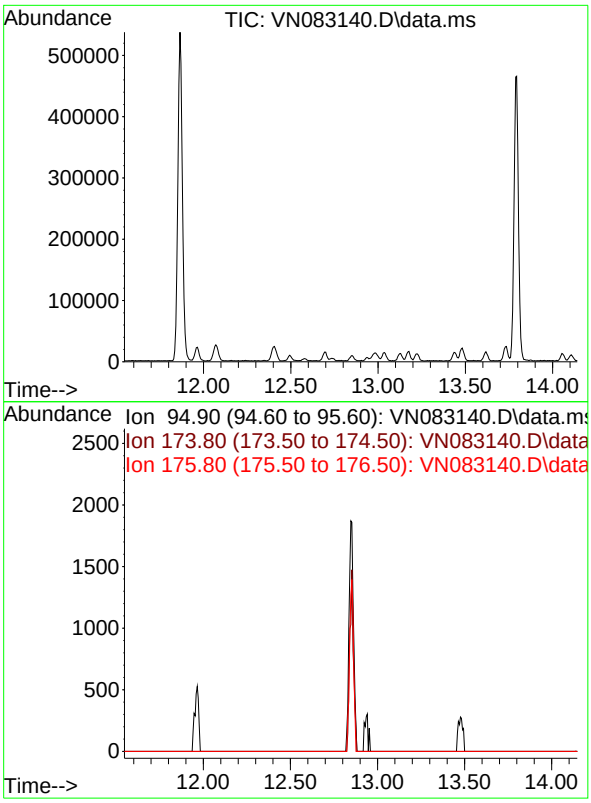


#61
1,2-Dibromoethane
Concen: 0.947 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:107 Resp: 2200

Ion	Ratio	Lower	Upper
107	100		
109	90.4	73.7	110.5





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.85 min

Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

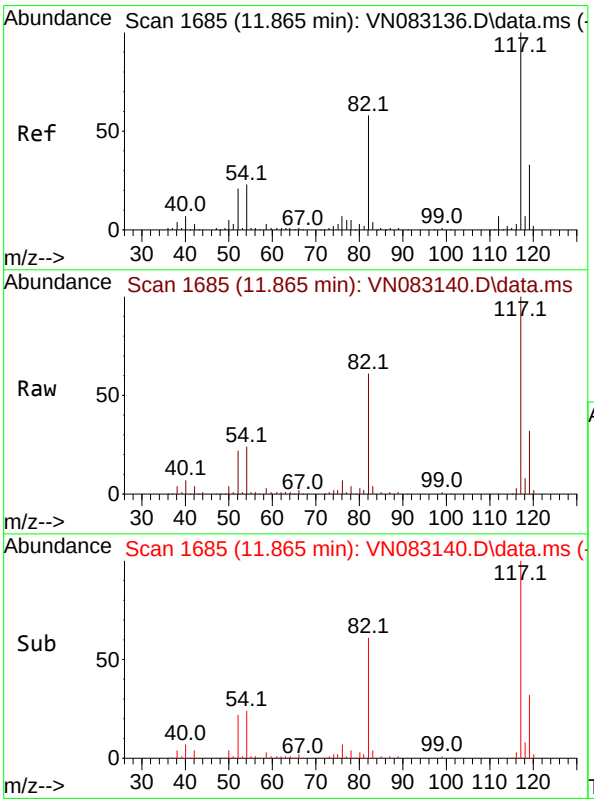
Tgt Ion: 95

Sig	Exp Ratio
95	100
174	79.6
176	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

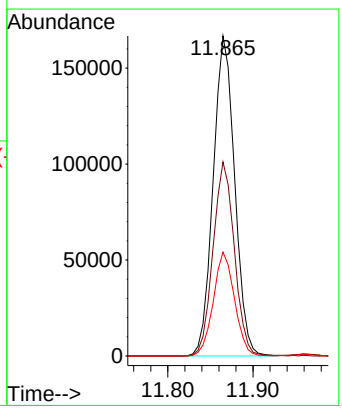
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

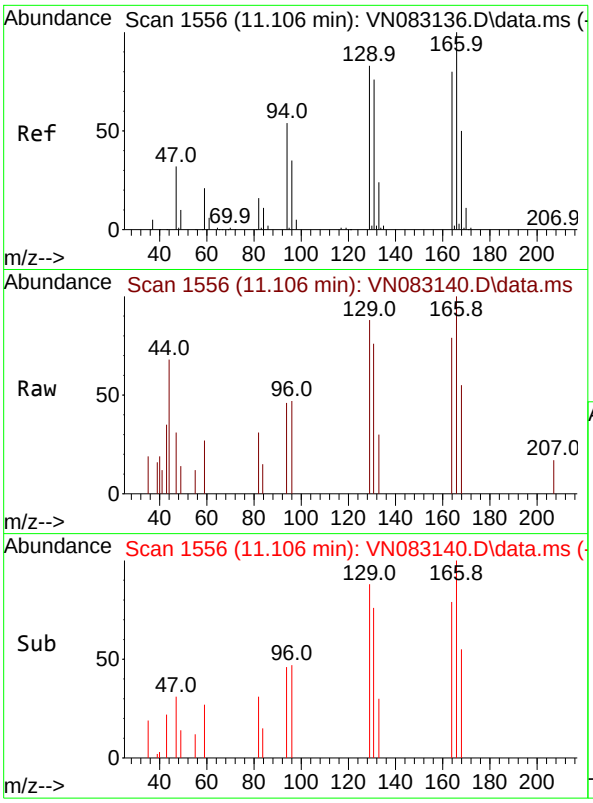


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:117 Resp: 292647

Ion	Ratio	Lower	Upper
117	100		
82	60.6	47.5	71.3
119	32.4	25.6	38.4

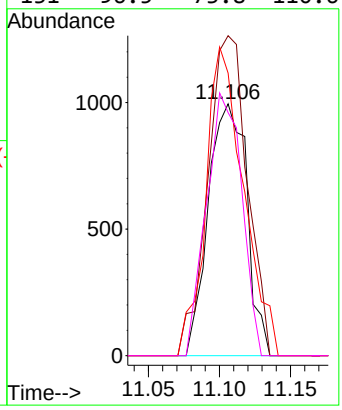




#64
Tetrachloroethene
Concen: 0.966 ug/l
RT: 11.106 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:164 Resp: 187

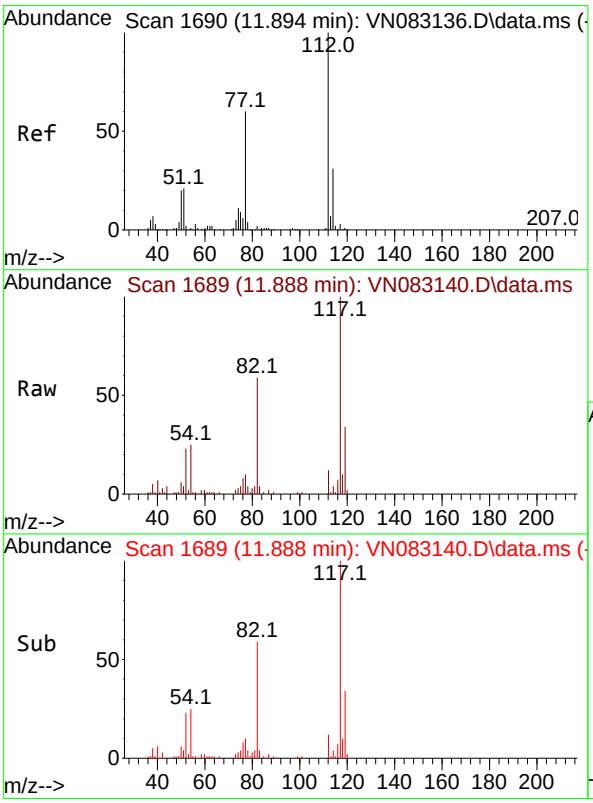
Ion	Ratio	Lower	Upper
164	100		
166	127.0	101.4	152.0
129	112.2	75.7	113.5
131	96.5	73.8	110.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

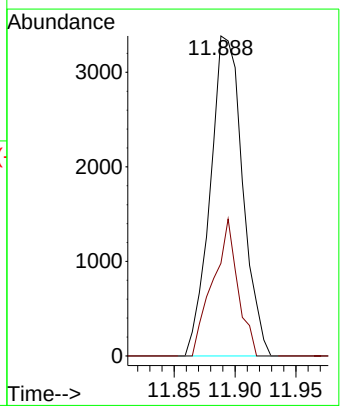
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

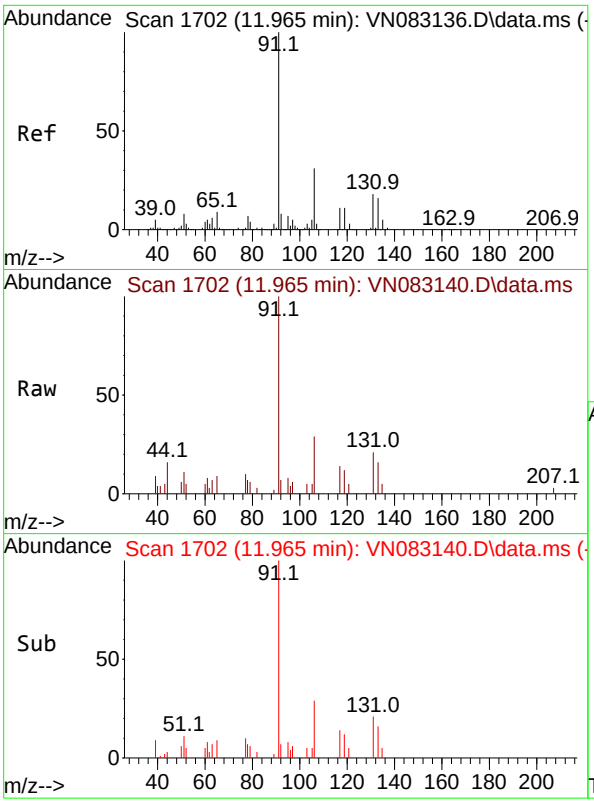


#65
Chlorobenzene
Concen: 0.968 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:112 Resp: 6259

Ion	Ratio	Lower	Upper
112	100		
114	29.0	26.2	39.2

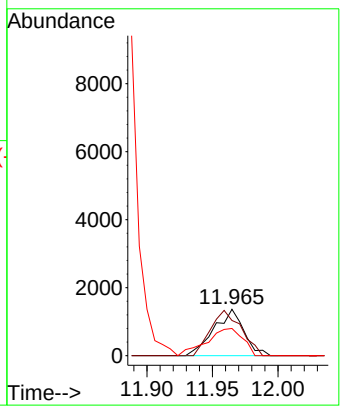




#66
1,1,1,2-Tetrachloroethane
Concen: 0.951 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:131 Resp: 216

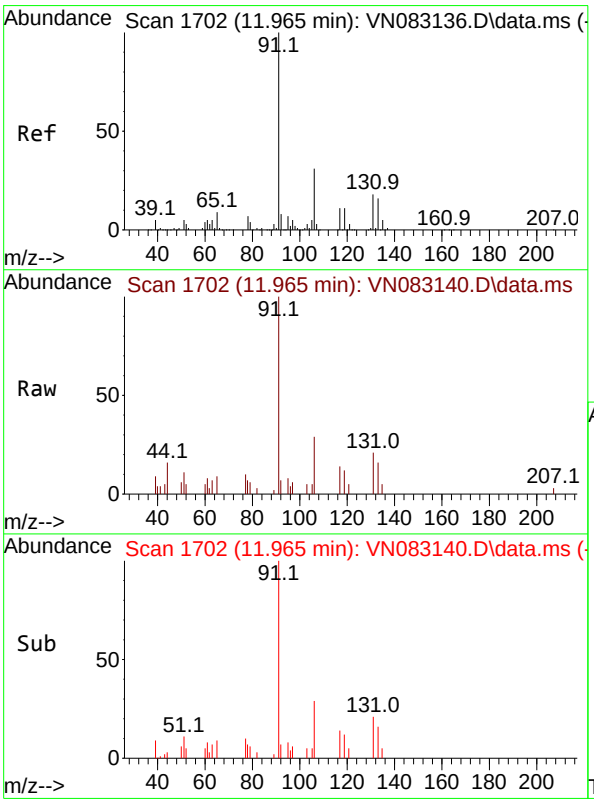
Ion	Ratio	Lower	Upper
131	100		
133	100.6	47.3	142.0
119	0.0	32.5	97.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

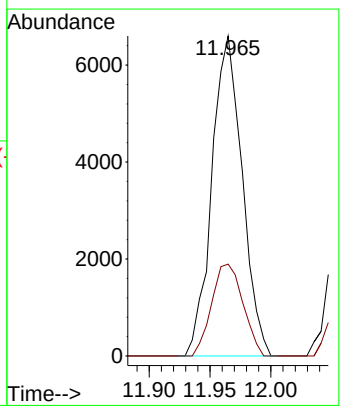
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

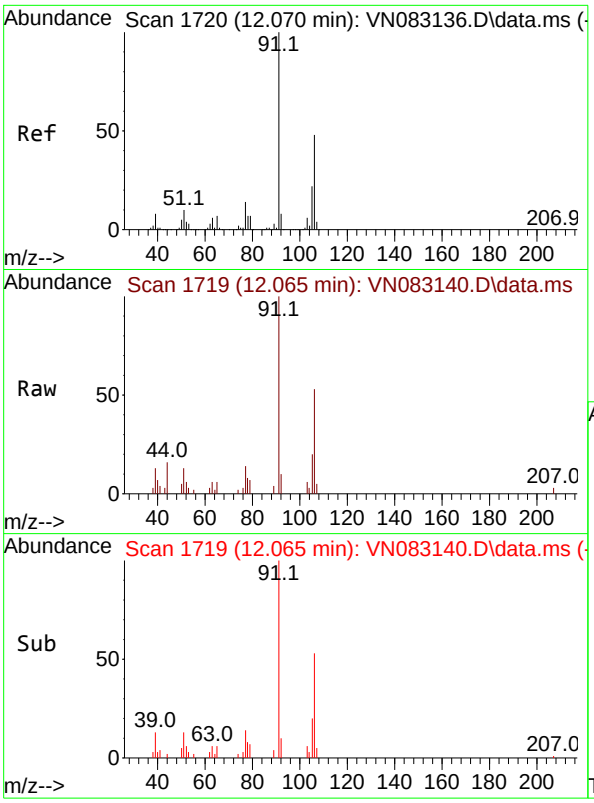


#67
Ethyl Benzene
Concen: 0.966 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 91 Resp: 11455

Ion	Ratio	Lower	Upper
91	100		
106	28.7	24.0	36.0

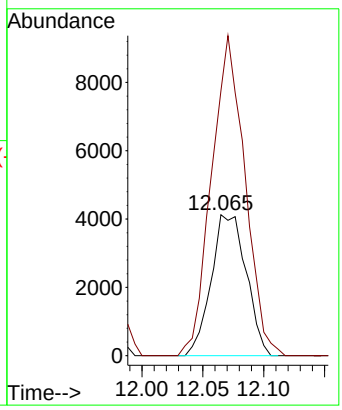




#68
m/p-Xylenes
Concen: 1.860 ug/l
RT: 12.065 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:106 Resp: 826

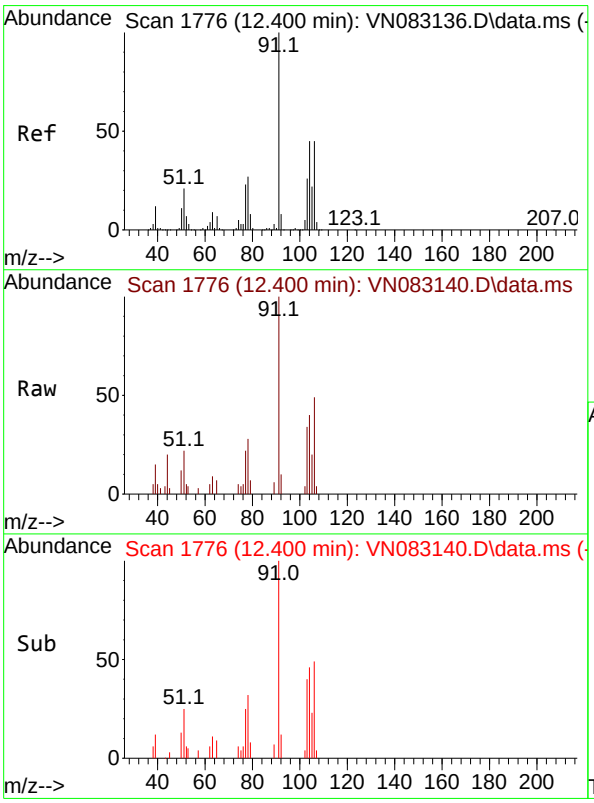
Ion	Ratio	Lower	Upper
106	100		
91	217.0	166.1	249.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

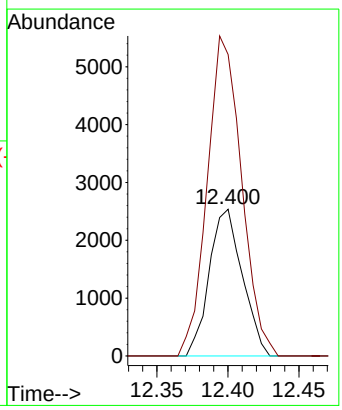
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

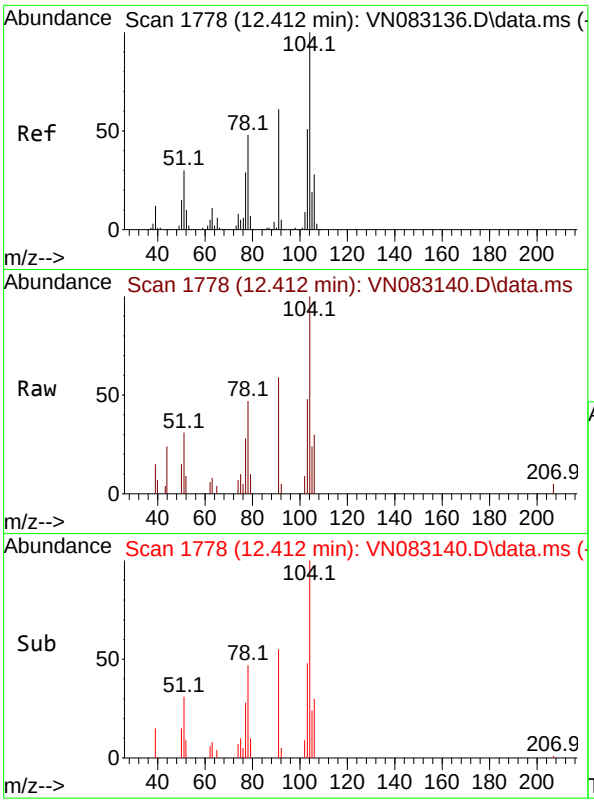


#69
o-Xylene
Concen: 0.938 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:106 Resp: 4113

Ion	Ratio	Lower	Upper
106	100		
91	226.2	111.3	333.9

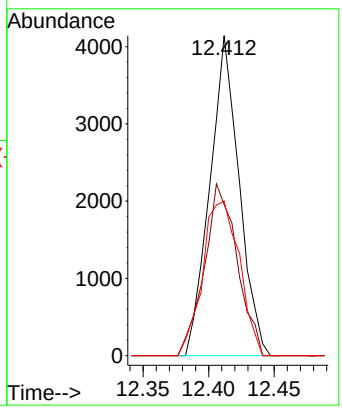




#70
Styrene
Concen: 0.875 ug/l
RT: 12.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:104 Resp: 641

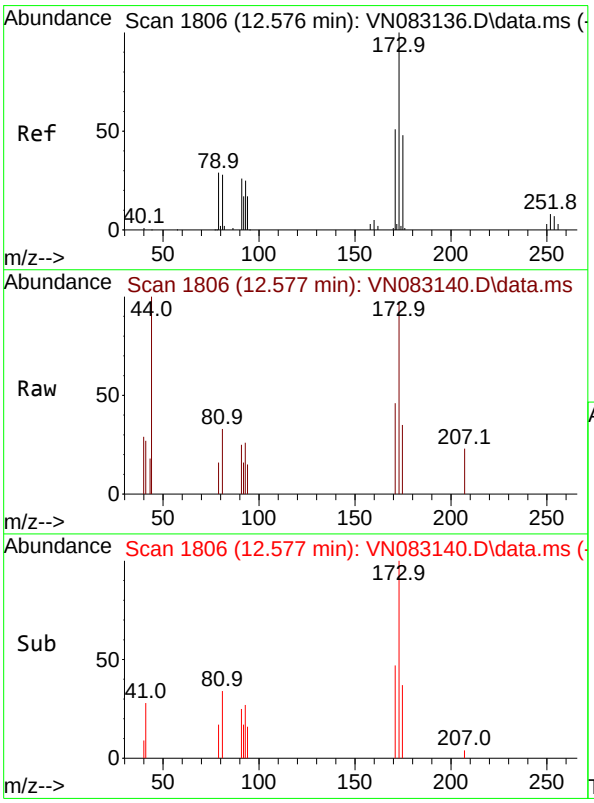
Ion	Ratio	Lower	Upper
104	100		
78	60.2	41.6	62.4
103	60.7	44.0	66.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

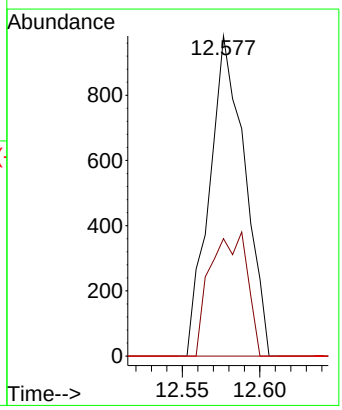
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

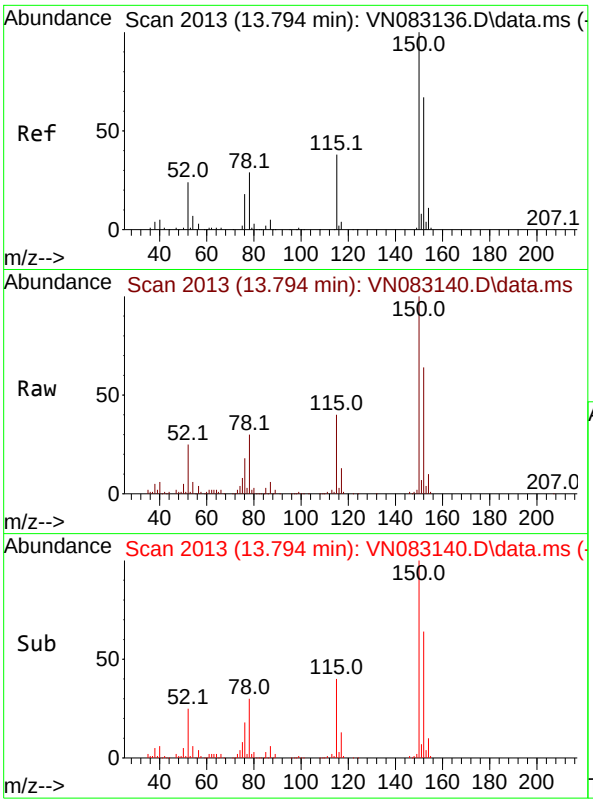


#71
Bromoform
Concen: 0.903 ug/l
RT: 12.577 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:173 Resp: 1561

Ion	Ratio	Lower	Upper
173	100		
175	40.2	24.0	72.0
254	0.0	0.0	0.0

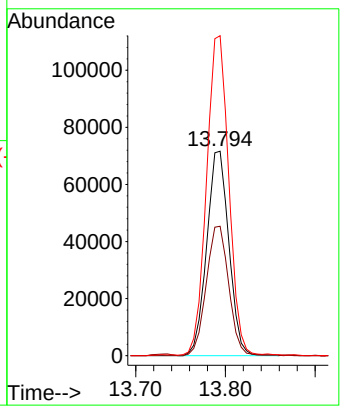




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:152 Resp: 12292

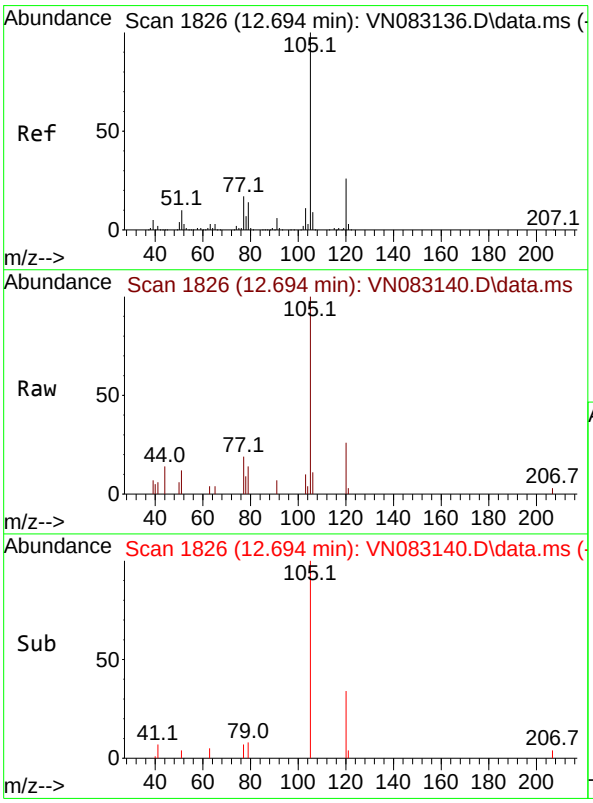
Ion	Ratio	Lower	Upper
152	100		
115	64.2	30.6	91.6
150	157.5	0.0	348.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

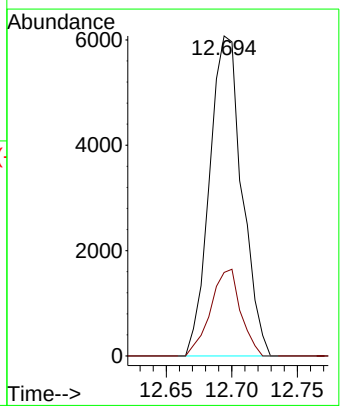
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

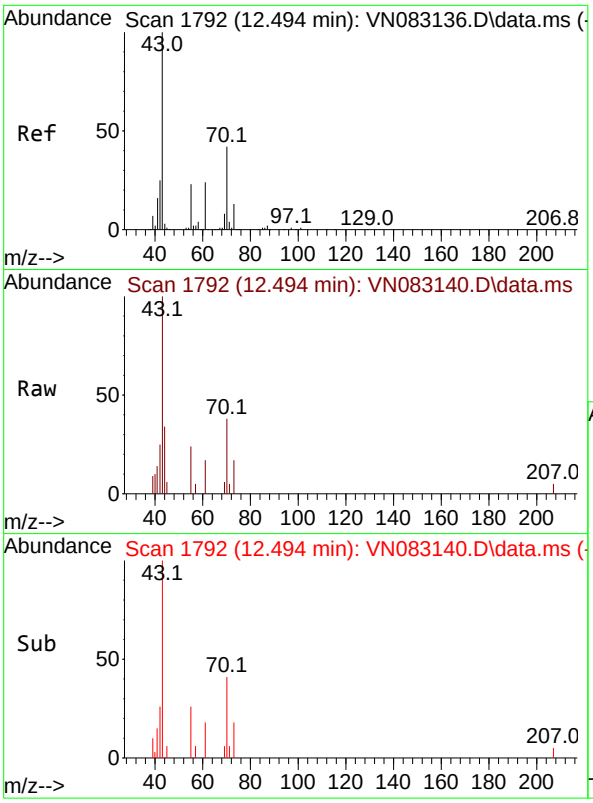


#73
Isopropylbenzene
Concen: 1.017 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:105 Resp: 10459

Ion	Ratio	Lower	Upper
105	100		
120	25.1	12.9	38.6

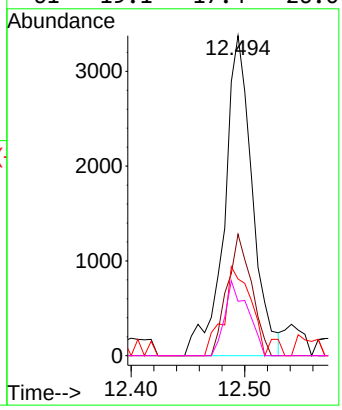




#74
N-amyl acetate
Concen: 1.144 ug/l
RT: 12.494 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 575

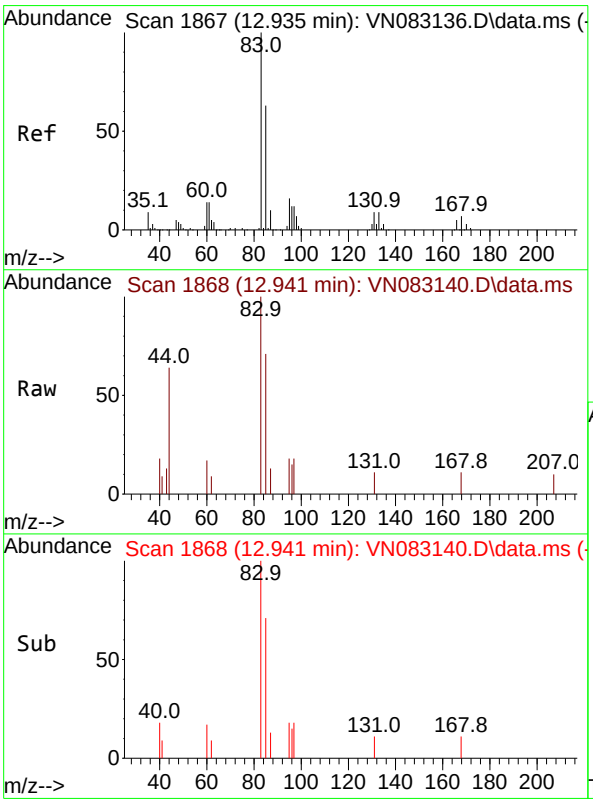
Ion	Ratio	Lower	Upper
43	100		
70	33.3	29.8	44.6
55	28.9	18.7	28.1
61	19.1	17.4	26.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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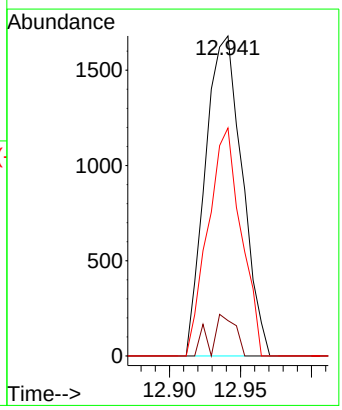
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

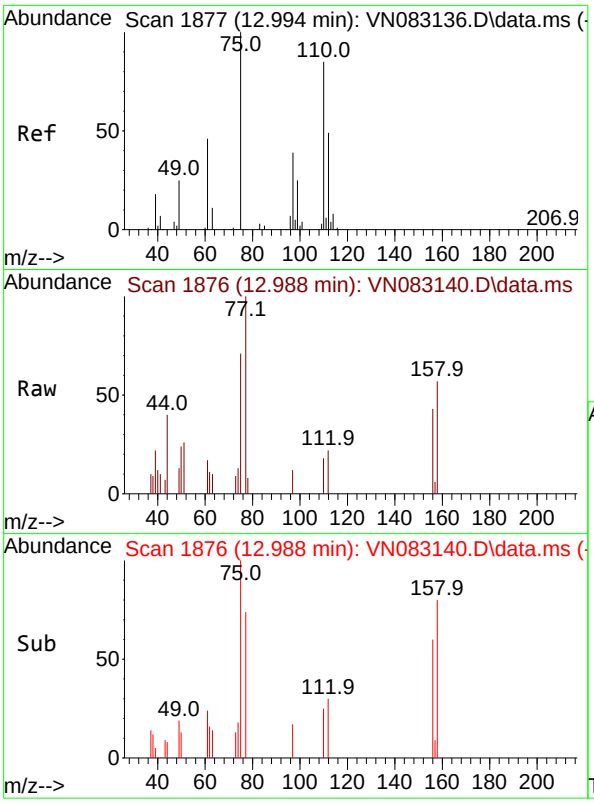


#75
1,1,2,2-Tetrachloroethane
Concen: 1.043 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 83 Resp: 3034

Ion	Ratio	Lower	Upper
83	100		
131	8.5	5.0	14.9
85	64.0	31.9	95.7

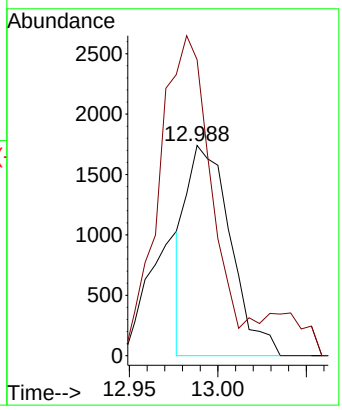




#76
1,2,3-Trichloropropane
Concen: 1.122 ug/l m
RT: 12.988 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 75 Resp: 303

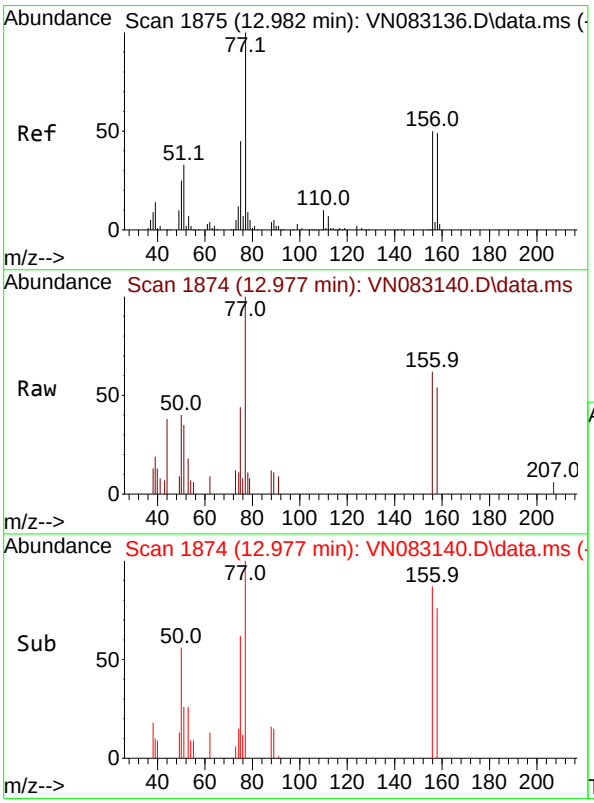
Ion	Ratio	Lower	Upper
75	100		
77	184.1	110.9	332.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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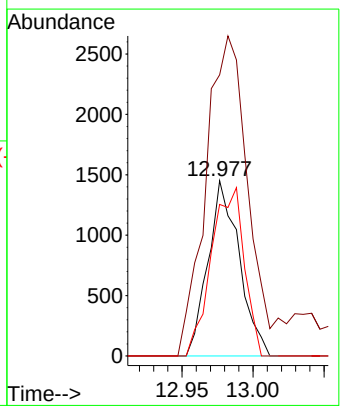
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

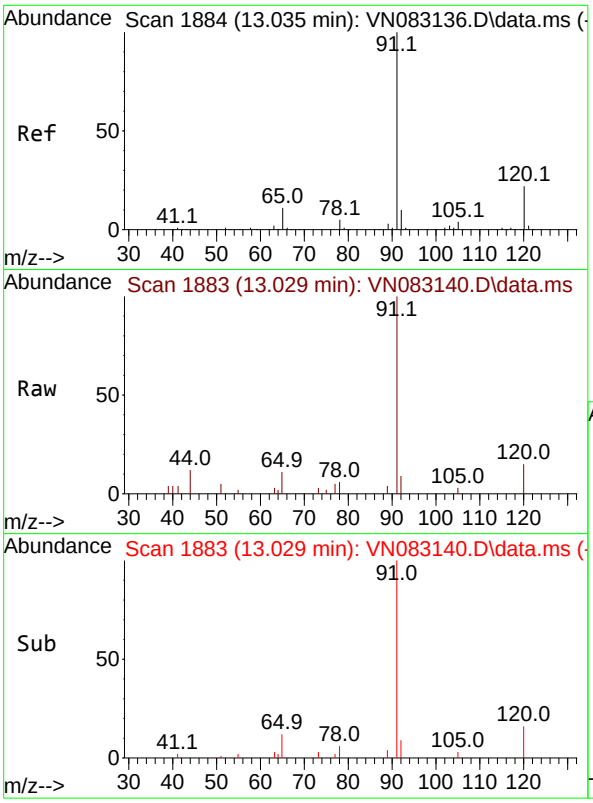


#77
Bromobenzene
Concen: 0.969 ug/l
RT: 12.977 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:156 Resp: 2212

Ion	Ratio	Lower	Upper
156	100		
77	252.2	111.3	333.8
158	101.5	48.3	144.9





#78
n-propylbenzene
Concen: 0.997 ug/l
RT: 13.029 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

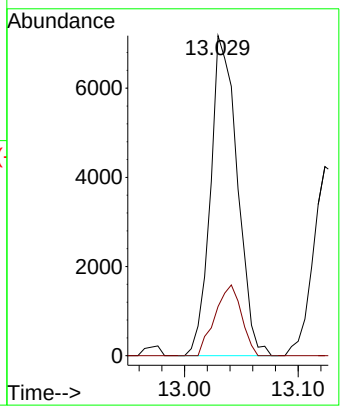
Tgt Ion: 91 Resp: 1180

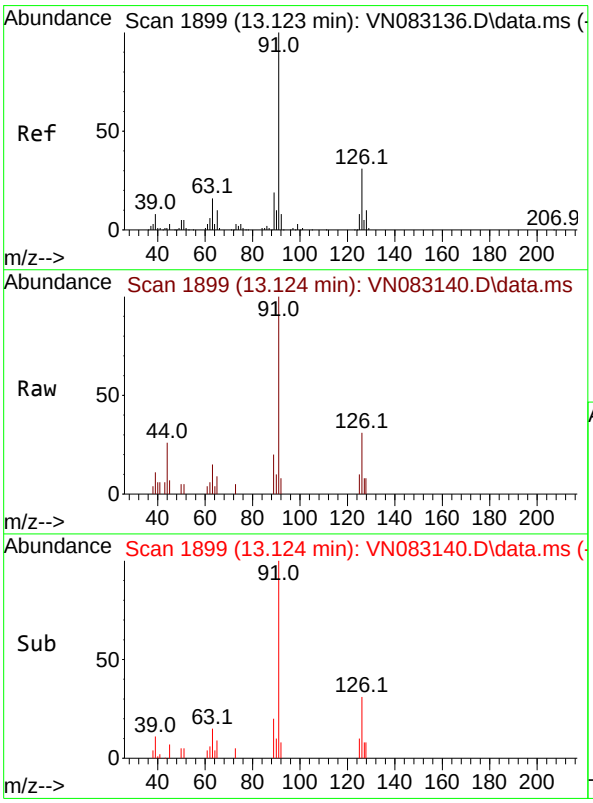
Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.9	32.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

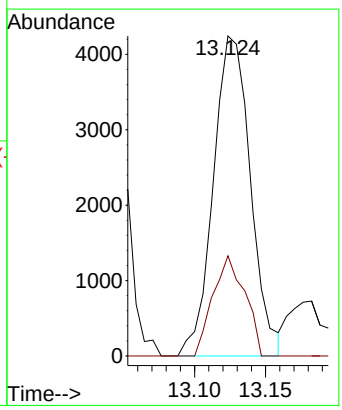


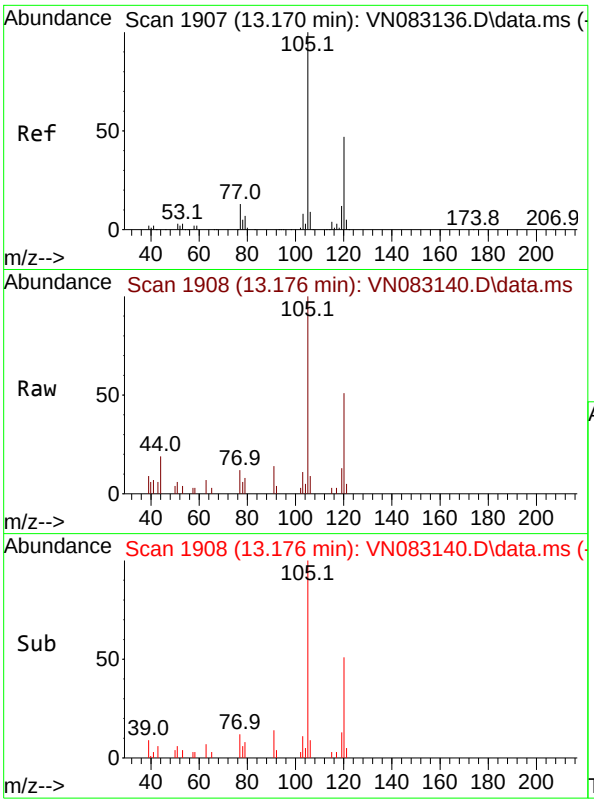


#79
2-Chlorotoluene
Concen: 1.031 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 91 Resp: 7735

Ion	Ratio	Lower	Upper
91	100		
126	26.9	16.2	48.6

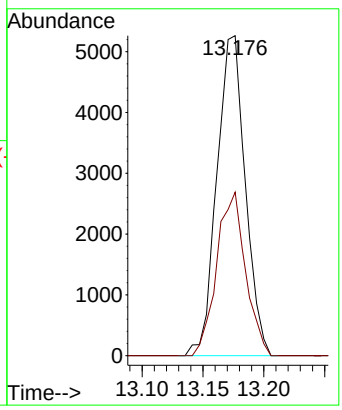




#80
1,3,5-Trimethylbenzene
Concen: 0.994 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:105 Resp: 855

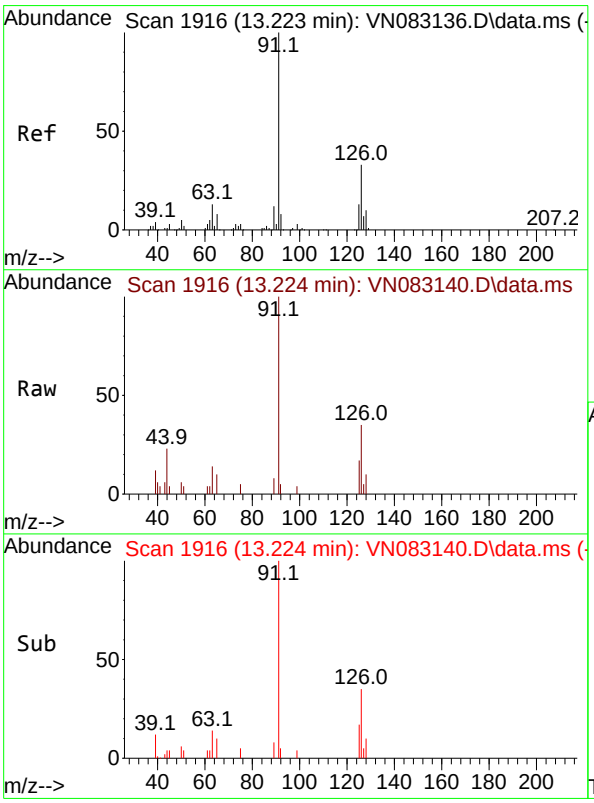
Ion	Ratio	Lower	Upper
105	100		
120	51.7	24.3	72.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

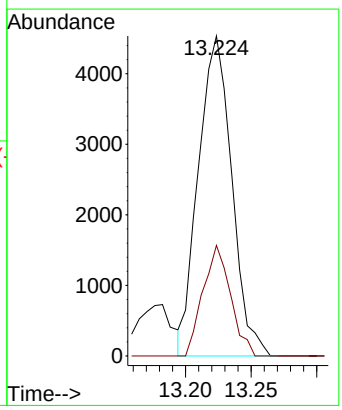
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

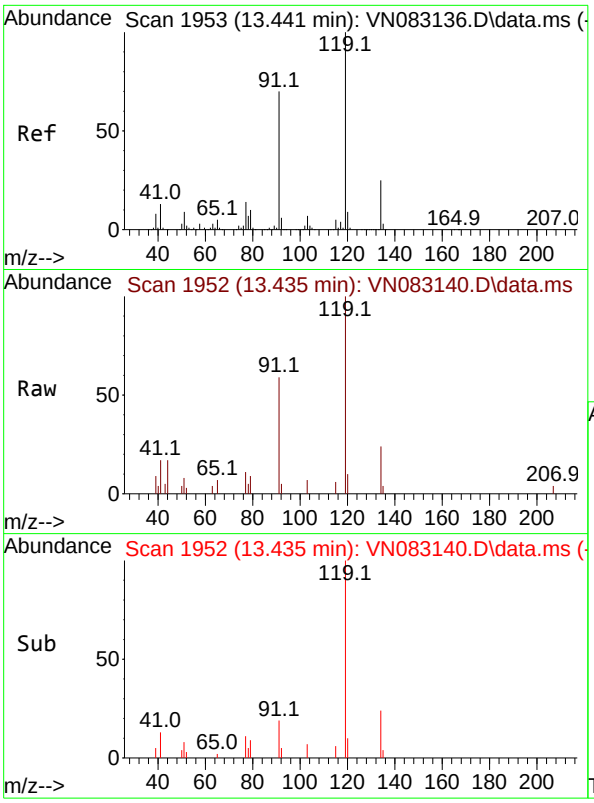


#82
4-Chlorotoluene
Concen: 1.065 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 91 Resp: 8018

Ion	Ratio	Lower	Upper
91	100		
126	28.6	16.2	48.6

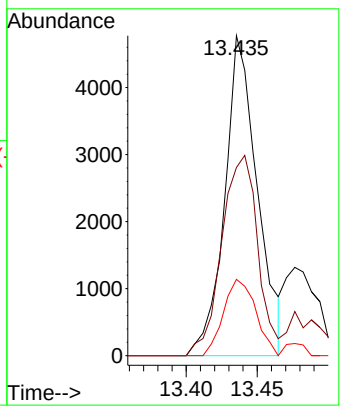




#83
tert-Butylbenzene
Concen: 1.001 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:119 Resp: 762

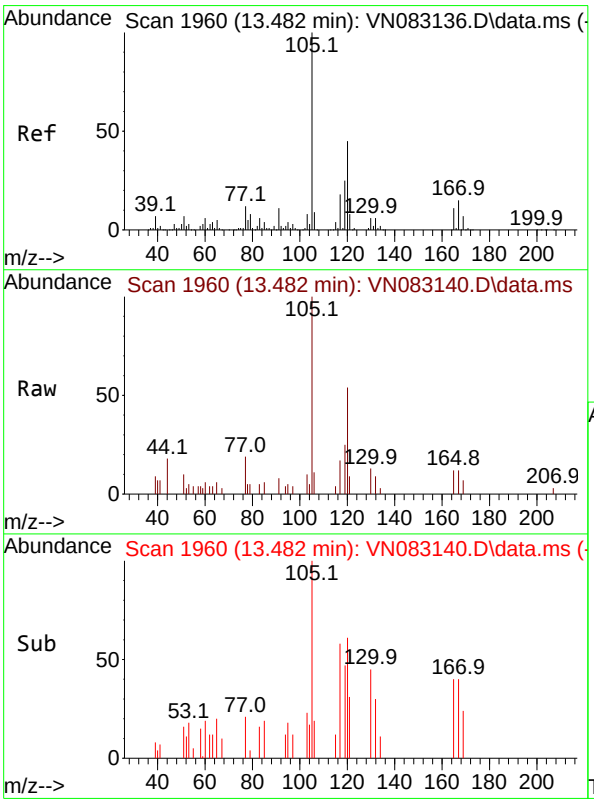
Ion	Ratio	Lower	Upper
119	100		
91	69.2	35.0	105.1
134	23.5	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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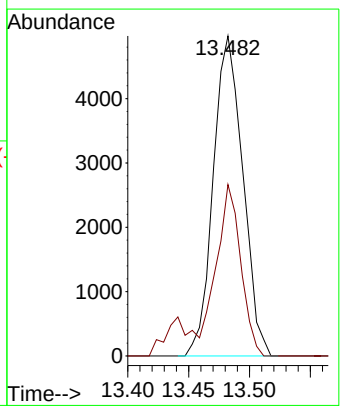
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

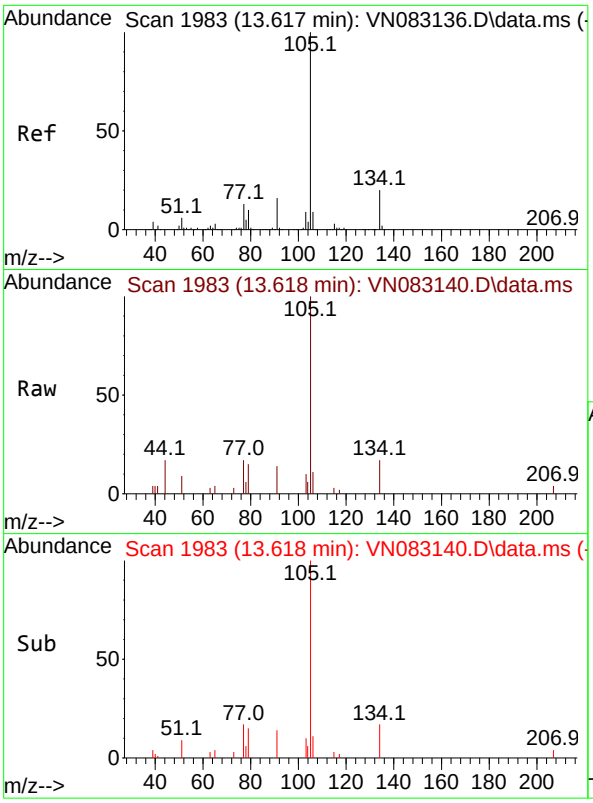


#84
1,2,4-Trimethylbenzene
Concen: 0.968 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:105 Resp: 8397

Ion	Ratio	Lower	Upper
105	100		
120	44.1	21.9	65.8





#85
sec-Butylbenzene
Concen: 1.001 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

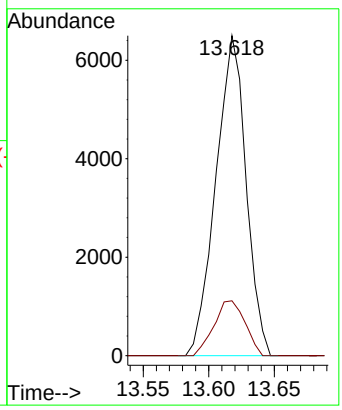
Tgt Ion:105 Resp: 1041

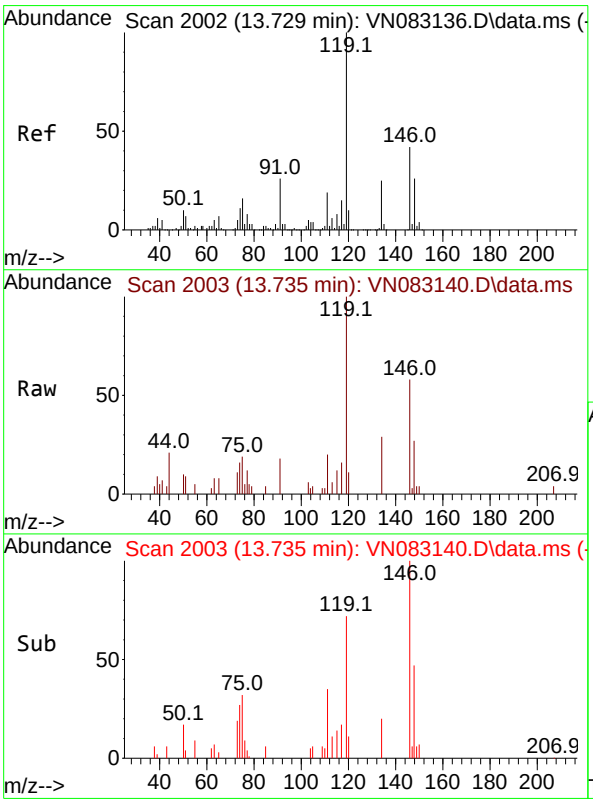
Ion	Ratio	Lower	Upper
105	100		
134	17.7	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

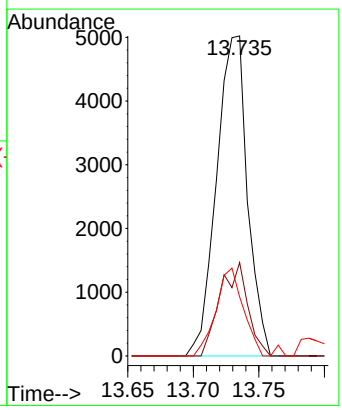


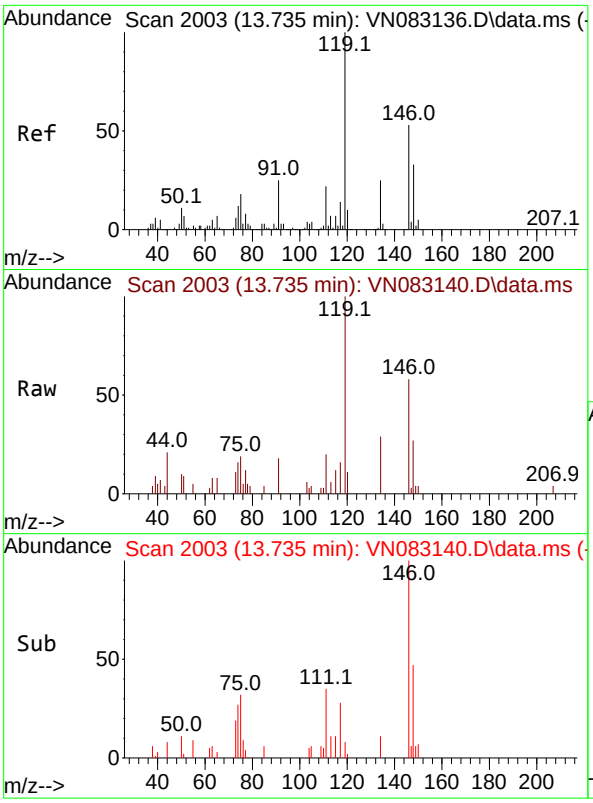


#86
p-Isopropyltoluene
Concen: 0.960 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:119 Resp: 8247

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.0	39.0
91	24.2	12.3	36.9

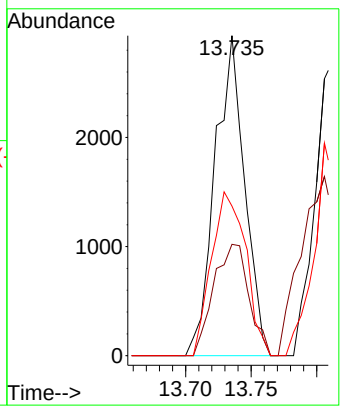




#87
1,3-Dichlorobenzene
Concen: 1.070 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:146 Resp: 459

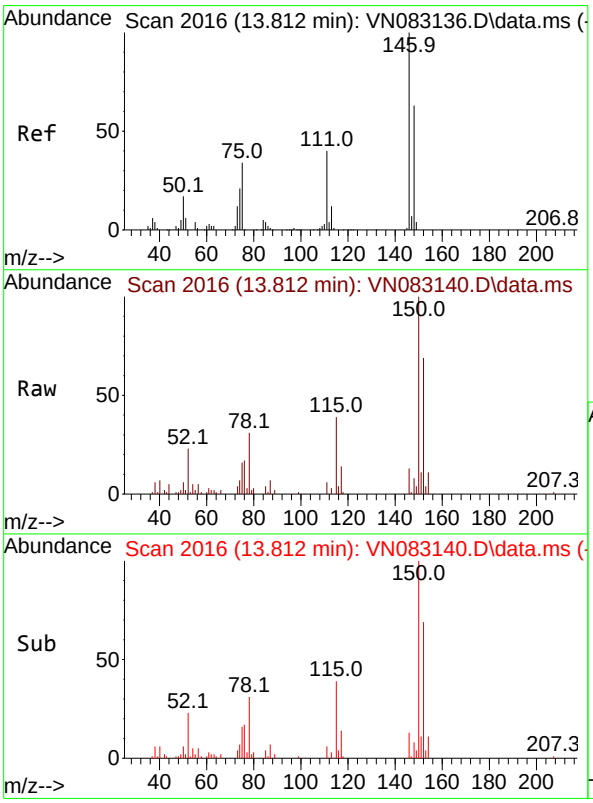
Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.6	61.9
148	59.5	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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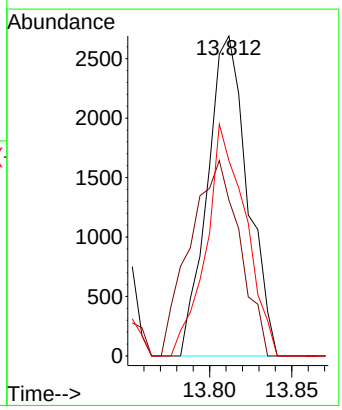
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

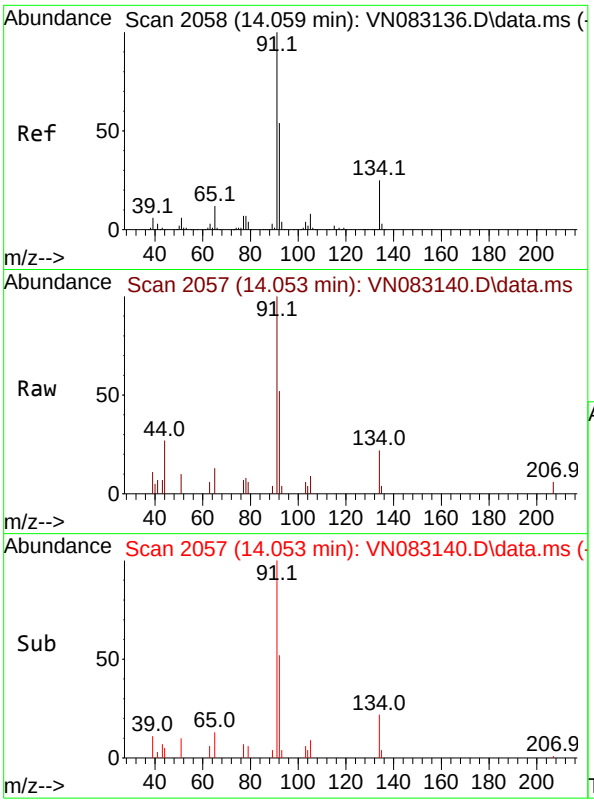


#88
1,4-Dichlorobenzene
Concen: 1.057 ug/l m
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:146 Resp: 4578

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.1	60.3
148	59.7	32.2	96.6





#89
n-Butylbenzene
Concen: 0.942 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

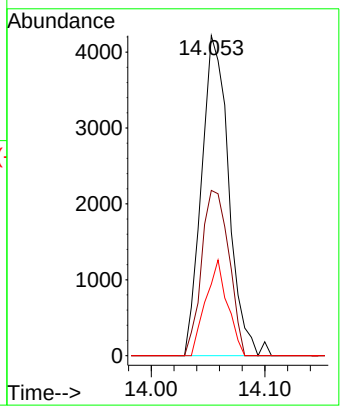
Tgt Ion: 91 Resp: 700

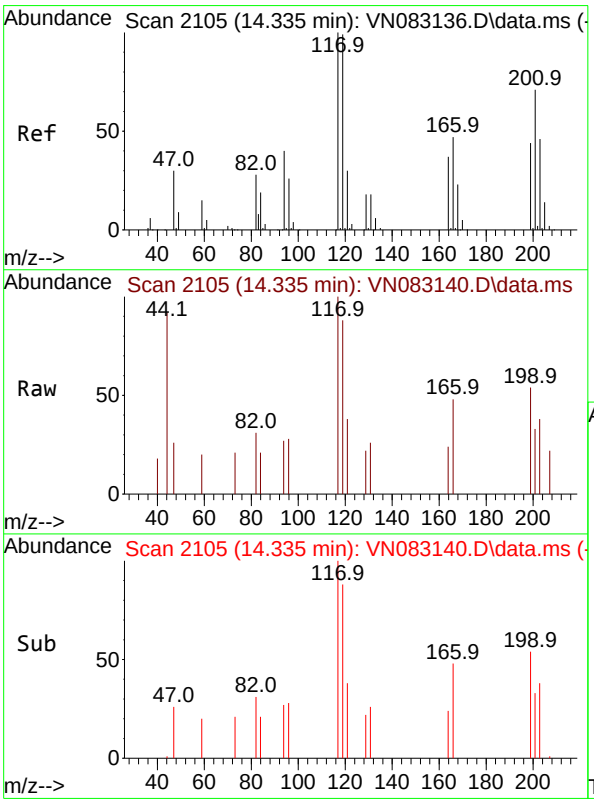
Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.1	78.3
134	24.1	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

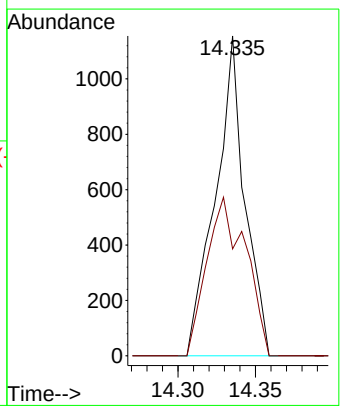


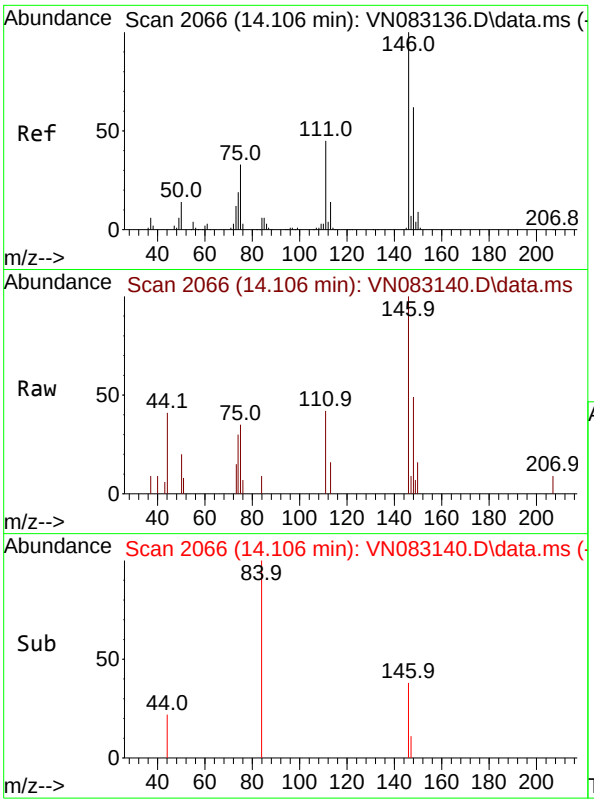


#90
Hexachloroethane
Concen: 0.918 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:117 Resp: 1524

Ion	Ratio	Lower	Upper
117	100		
201	65.7	35.8	107.3

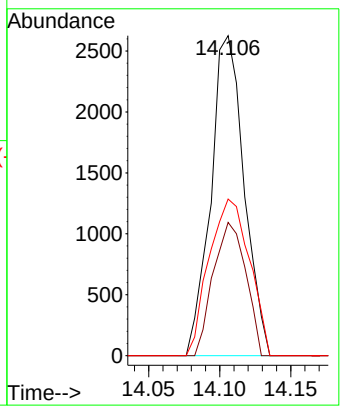




#91
1,2-Dichlorobenzene
Concen: 1.029 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:146 Resp: 427

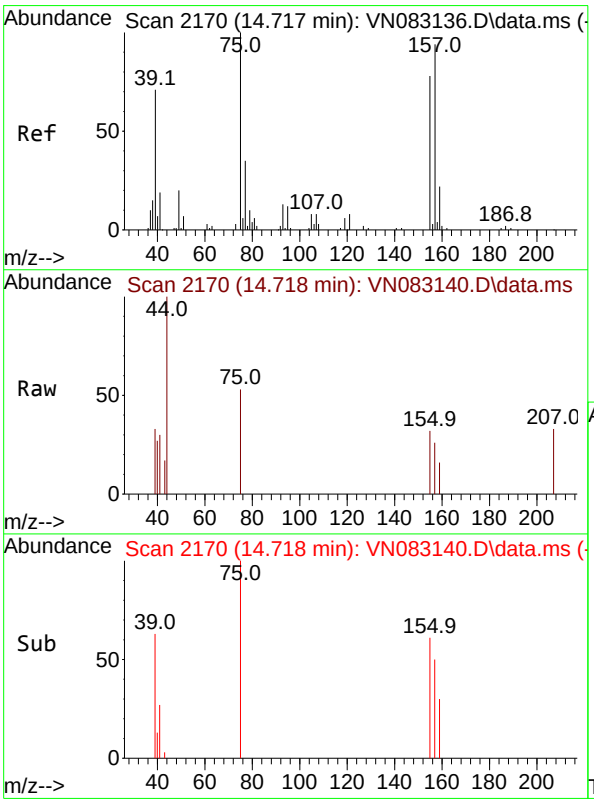
Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.4	64.2
148	59.6	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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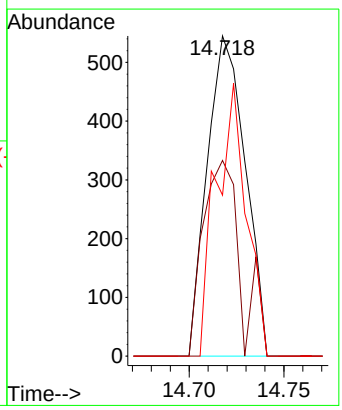
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

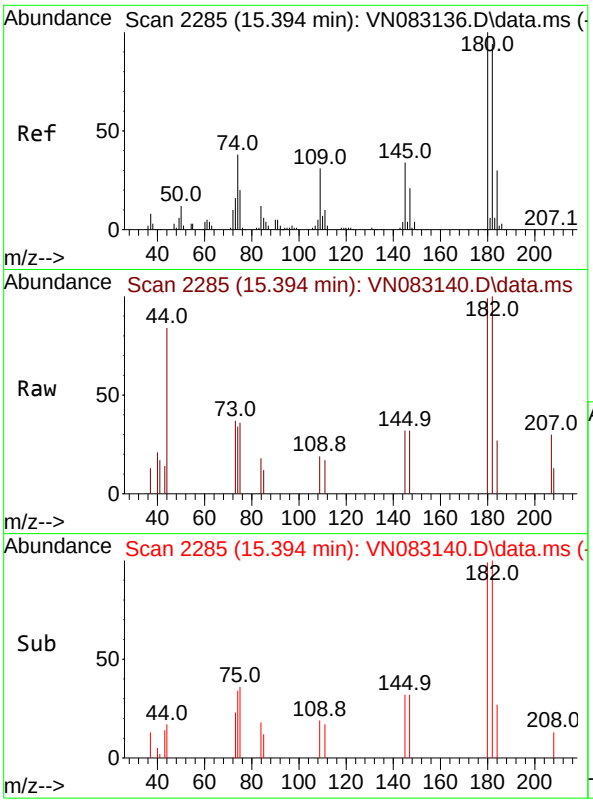


#92
1,2-Dibromo-3-Chloropropane
Concen: 1.081 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 75 Resp: 763

Ion	Ratio	Lower	Upper
75	100		
155	59.5	36.6	109.8
157	67.9	46.9	140.6





#93
1,2,4-Trichlorobenzene
Concen: 1.070 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

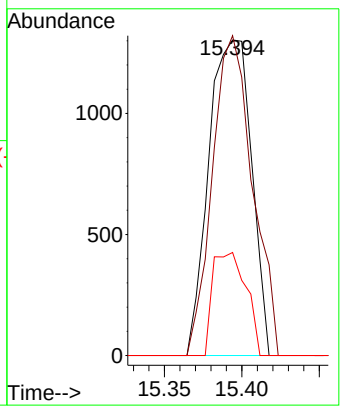
Tgt Ion:180 Resp: 249

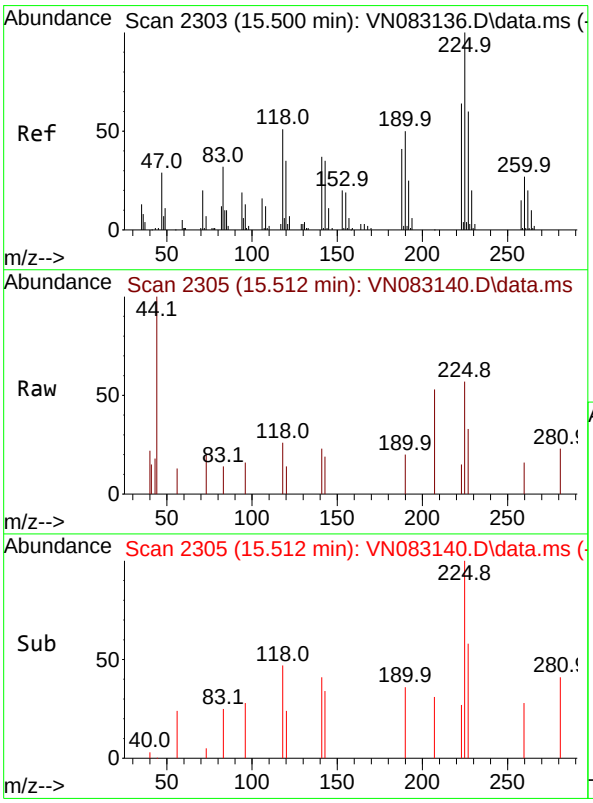
Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	141.8
145	25.6	15.7	47.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

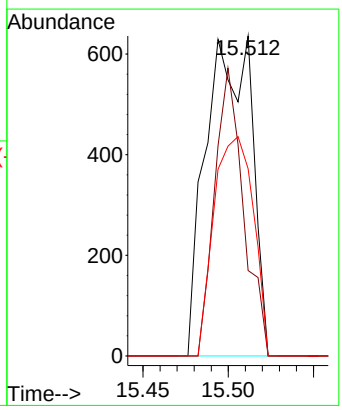


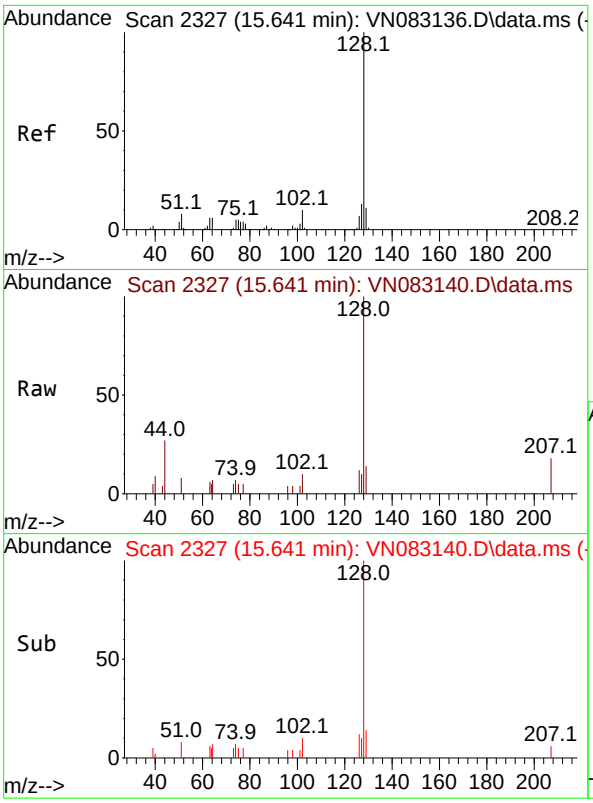


#94
Hexachlorobutadiene
Concen: 1.140 ug/l
RT: 15.512 min Scan# 2305
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:225 Resp: 1181

Ion	Ratio	Lower	Upper
225	100		
223	57.0	31.9	95.7
227	59.4	32.5	97.5

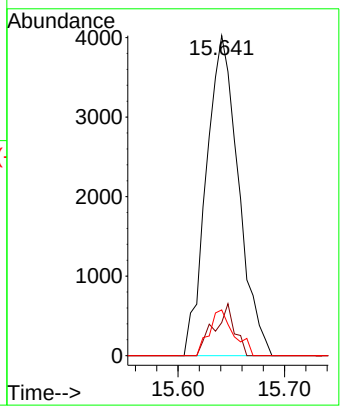




#95
Naphthalene
Concen: 1.021 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:128 Resp: 843

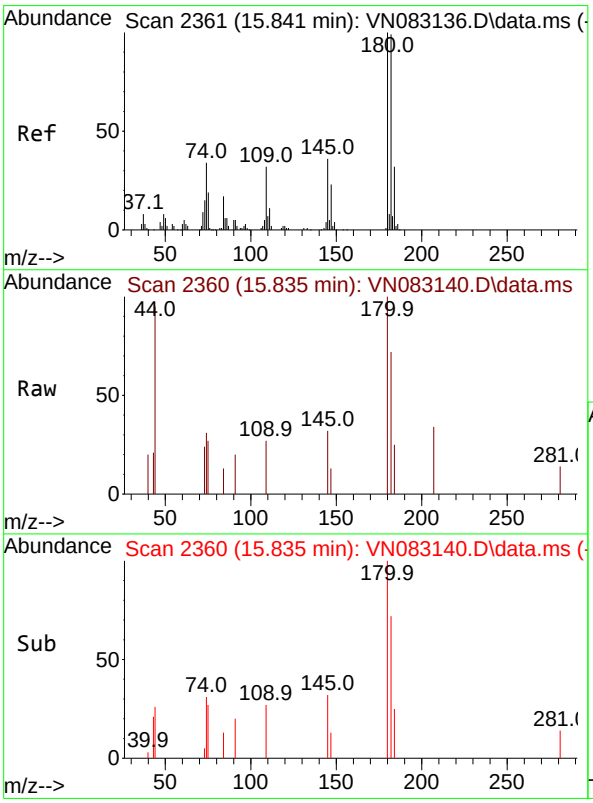
Ion	Ratio	Lower	Upper
128	100		
127	10.4	10.6	16.0
129	10.9	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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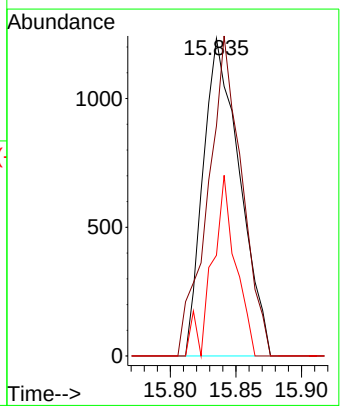
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 1.036 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:180 Resp: 2389

Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.9	146.8
145	36.6	16.8	50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	223686	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	380000	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330951	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	157193	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161051	50.583	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.160%			
35) Dibromofluoromethane	8.165	113	122268	51.549	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.100%			
50) Toluene-d8	10.565	98	461627	52.175	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.340%			
62) 4-Bromofluorobenzene	12.847	95	181344	52.574	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 105.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	119481	47.102	ug/l	99
3) Chloromethane	2.360	50	120081	46.238	ug/l	97
4) Vinyl Chloride	2.512	62	121730	45.937	ug/l	99
5) Bromomethane	2.948	94	70678	42.984	ug/l	99
6) Chloroethane	3.112	64	72491	43.725	ug/l	96
7) Trichlorofluoromethane	3.495	101	206291	47.124	ug/l	98
8) Diethyl Ether	3.959	74	75355	46.259	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.365	101	113860	47.176	ug/l	99
10) Methyl Iodide	4.589	142	150327	47.349	ug/l	97
11) Tert butyl alcohol	5.524	59	137718	208.135	ug/l	99
12) 1,1-Dichloroethene	4.336	96	112976	45.562	ug/l	93
13) Acrolein	4.177	56	93826	217.571	ug/l	97
14) Allyl chloride	5.018	41	192929	41.173	ug/l	94
15) Acrylonitrile	5.712	53	296594	217.950	ug/l	99
16) Acetone	4.424	43	262677	210.840	ug/l	97
17) Carbon Disulfide	4.712	76	316980	43.689	ug/l	100
18) Methyl Acetate	5.024	43	157374	42.397	ug/l #	91
19) Methyl tert-butyl Ether	5.795	73	418691	46.781	ug/l	97
20) Methylene Chloride	5.277	84	125142	43.645	ug/l #	82
21) trans-1,2-Dichloroethene	5.783	96	117045	45.671	ug/l	92
22) Diisopropyl ether	6.671	45	412931	46.881	ug/l	97
23) Vinyl Acetate	6.600	43	2125343	235.414	ug/l	95
24) 1,1-Dichloroethane	6.565	63	224136	46.685	ug/l	99
25) 2-Butanone	7.483	43	405134	211.782	ug/l	91
26) 2,2-Dichloropropane	7.489	77	213355	47.853	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	142606	46.113	ug/l	93
28) Bromochloromethane	7.812	49	90226	45.986	ug/l	86
29) Tetrahydrofuran	7.836	42	274710	222.147	ug/l	89
30) Chloroform	7.965	83	236359	47.387	ug/l	97
31) Cyclohexane	8.253	56	205124	43.474	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	222538	47.135	ug/l	96
36) 1,1-Dichloropropene	8.371	75	171262	47.732	ug/l	99
37) Ethyl Acetate	7.559	43	173246	43.124	ug/l #	96
38) Carbon Tetrachloride	8.365	117	193592	47.904	ug/l	100
39) Methylcyclohexane	9.600	83	210745	47.821	ug/l	98
40) Benzene	8.606	78	509159	47.635	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED
Reviewed By :John Carlone 08/08/2024
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	98251	43.013	ug/l		95
42) 1,2-Dichloroethane	8.671	62	184210	47.310	ug/l		98
43) Isopropyl Acetate	8.689	43	319540	45.577	ug/l	#	95
44) Trichloroethene	9.353	130	122105	47.994	ug/l		99
45) 1,2-Dichloropropane	9.624	63	122313	48.208	ug/l		99
46) Dibromomethane	9.712	93	85581	47.124	ug/l		99
47) Bromodichloromethane	9.888	83	191842	47.047	ug/l		98
48) Methyl methacrylate	9.683	41	148161	44.609	ug/l		92
49) 1,4-Dioxane	9.694	88	53042	885.211	ug/l		96
51) 4-Methyl-2-Pentanone	10.441	43	877246	230.917	ug/l		94
52) Toluene	10.630	92	327682	48.520	ug/l		98
53) t-1,3-Dichloropropene	10.835	75	208495	49.776	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	216020	48.487	ug/l		93
55) 1,1,2-Trichloroethane	11.018	97	117023	48.351	ug/l		99
56) Ethyl methacrylate	10.871	69	216248	47.395	ug/l		88
57) 1,3-Dichloropropane	11.165	76	204441	47.391	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	472357	244.918	ug/l		96
59) 2-Hexanone	11.194	43	661033	224.916	ug/l		92
60) Dibromochloromethane	11.359	129	144886	49.513	ug/l		99
61) 1,2-Dibromoethane	11.471	107	119834	47.133	ug/l		98
64) Tetrachloroethene	11.106	164	105591	48.175	ug/l		97
65) Chlorobenzene	11.888	112	347560	47.522	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.959	131	120826	46.843	ug/l		98
67) Ethyl Benzene	11.965	91	640827	47.764	ug/l		99
68) m/p-Xylenes	12.071	106	484653	96.434	ug/l		98
69) o-Xylene	12.400	106	231292	46.662	ug/l		97
70) Styrene	12.412	104	403657	48.487	ug/l		98
71) Bromoform	12.577	173	93397	47.797	ug/l	#	99
73) Isopropylbenzene	12.694	105	616544	46.893	ug/l		99
74) N-amyl acetate	12.494	43	281352	43.748	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.941	83	159962	43.016	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	145309m	42.119	ug/l		
77) Bromobenzene	12.982	156	136249	46.649	ug/l		97
78) n-propylbenzene	13.035	91	721825	47.678	ug/l		99
79) 2-Chlorotoluene	13.124	91	445353	46.398	ug/l		98
80) 1,3,5-Trimethylbenzene	13.171	105	524769	47.673	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.735	75	74654	47.070	ug/l		84
82) 4-Chlorotoluene	13.224	91	447810	46.512	ug/l		98
83) tert-Butylbenzene	13.435	119	450104	46.173	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	515759	46.493	ug/l		99
85) sec-Butylbenzene	13.618	105	625404	47.018	ug/l		100
86) p-Isopropyltoluene	13.729	119	522411	47.566	ug/l		98
87) 1,3-Dichlorobenzene	13.735	146	252579	45.959	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	252088	45.499	ug/l		98
89) n-Butylbenzene	14.059	91	461440	48.489	ug/l		98
90) Hexachloroethane	14.335	117	99176	46.741	ug/l		95
91) 1,2-Dichlorobenzene	14.106	146	240673	45.255	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	37677	41.753	ug/l		99
93) 1,2,4-Trichlorobenzene	15.394	180	137214	46.054	ug/l		96
94) Hexachlorobutadiene	15.500	225	57394	43.315	ug/l		98
95) Naphthalene	15.641	128	471674	44.692	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	133315	45.221	ug/l		95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

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Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

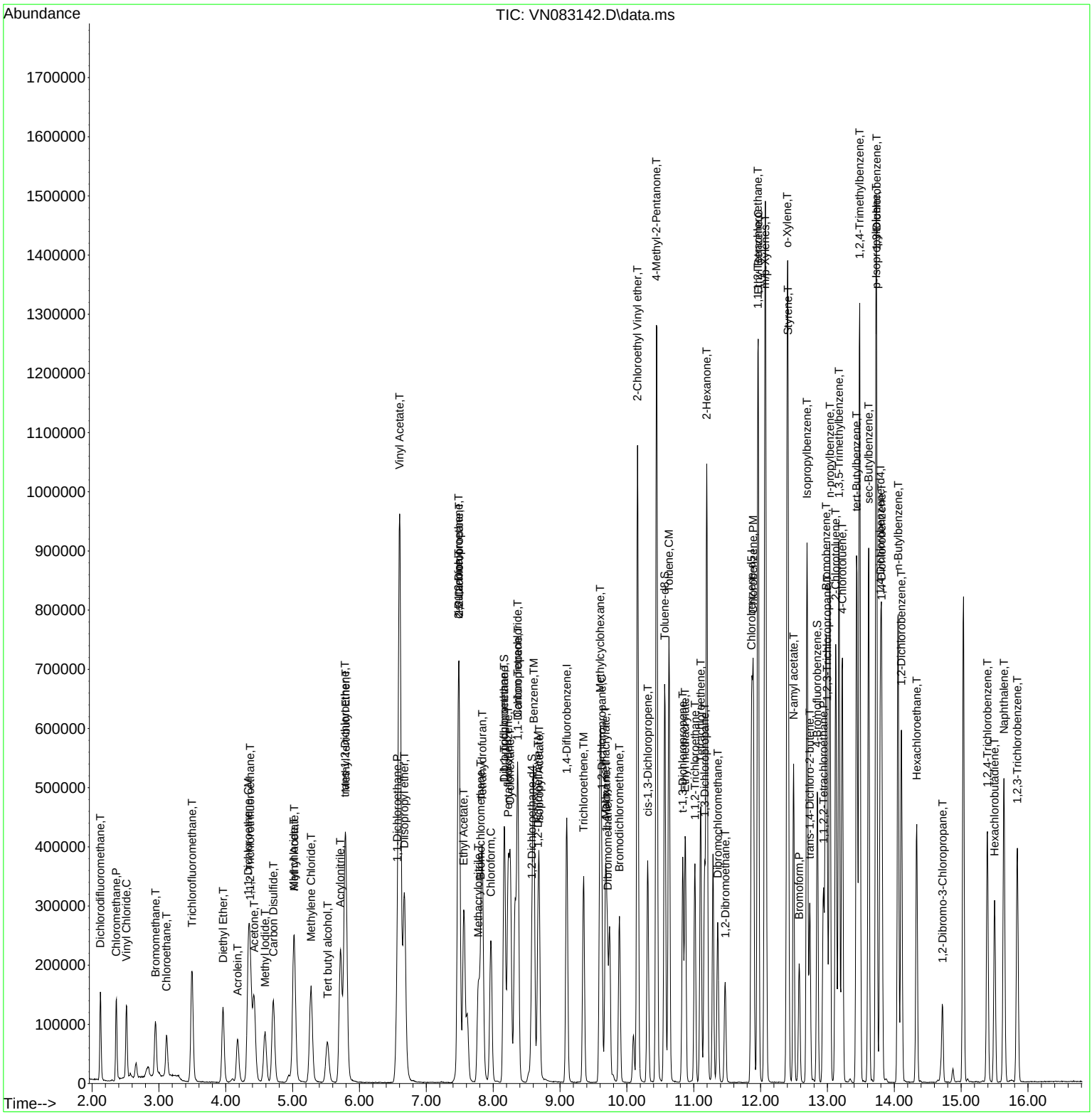
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Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

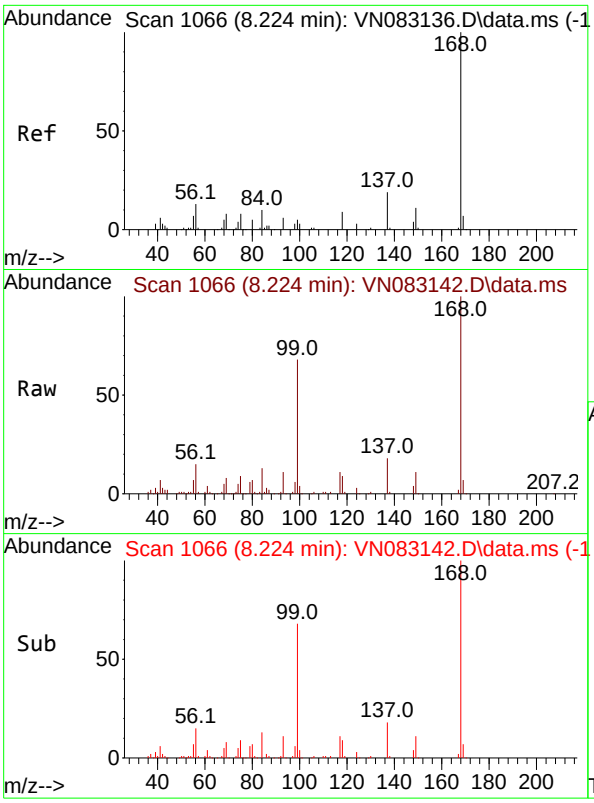
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
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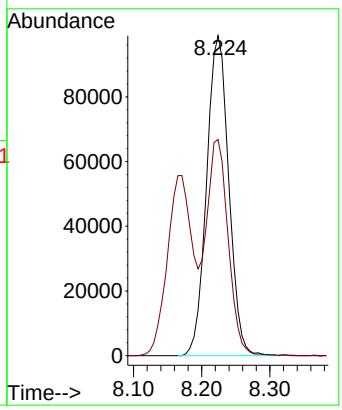




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:168 Resp: 22368

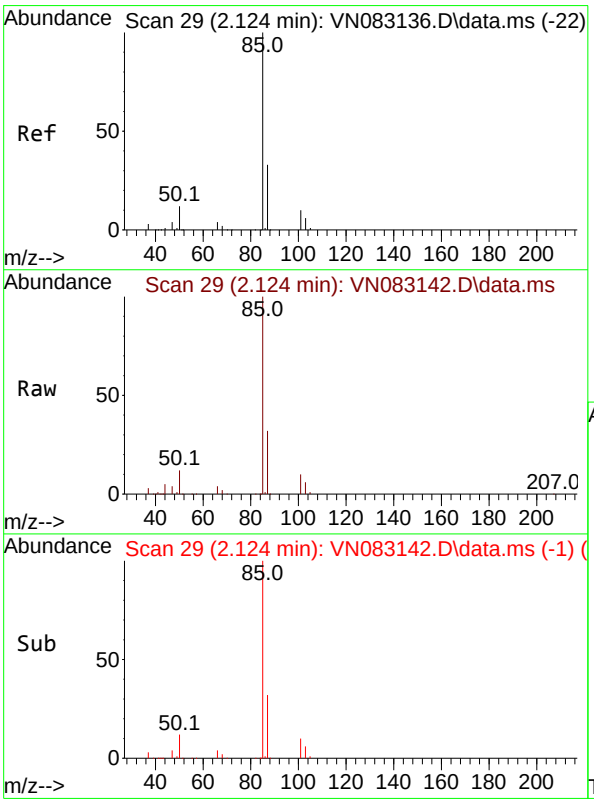
Ion	Ratio	Lower	Upper
168	100		
99	67.4	48.2	72.4



Instrument :
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ClientSampleId :
ICVVN080724

Manual Integrations
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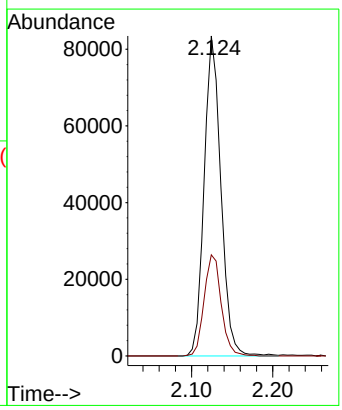
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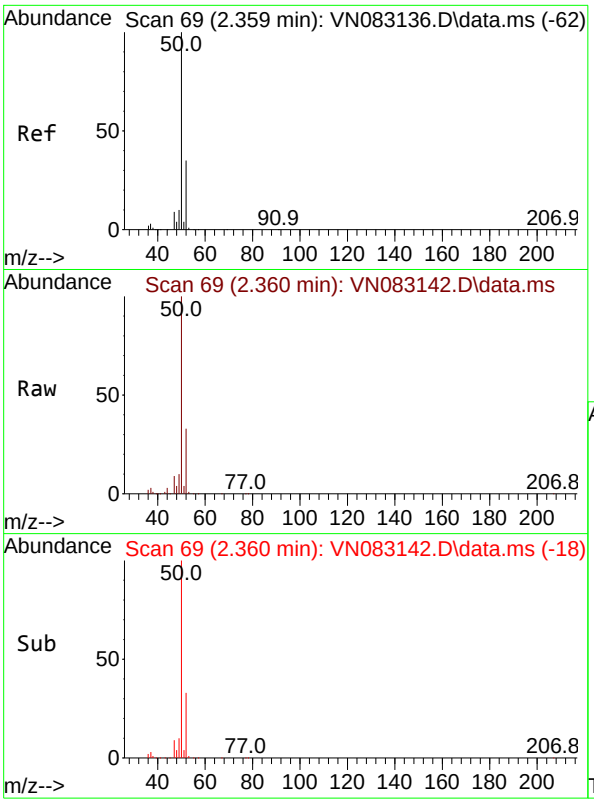


#2
Dichlorodifluoromethane
Concen: 47.102 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 85 Resp: 119481

Ion	Ratio	Lower	Upper
85	100		
87	31.6	15.7	47.0

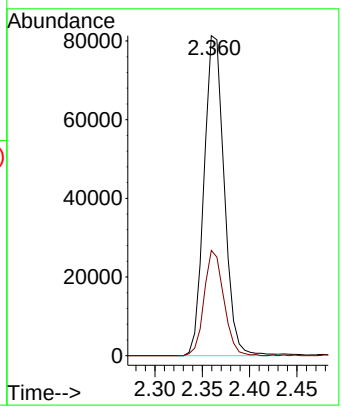




#3
Chloromethane
Concen: 46.238 ug/l
RT: 2.360 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 50 Resp: 12008

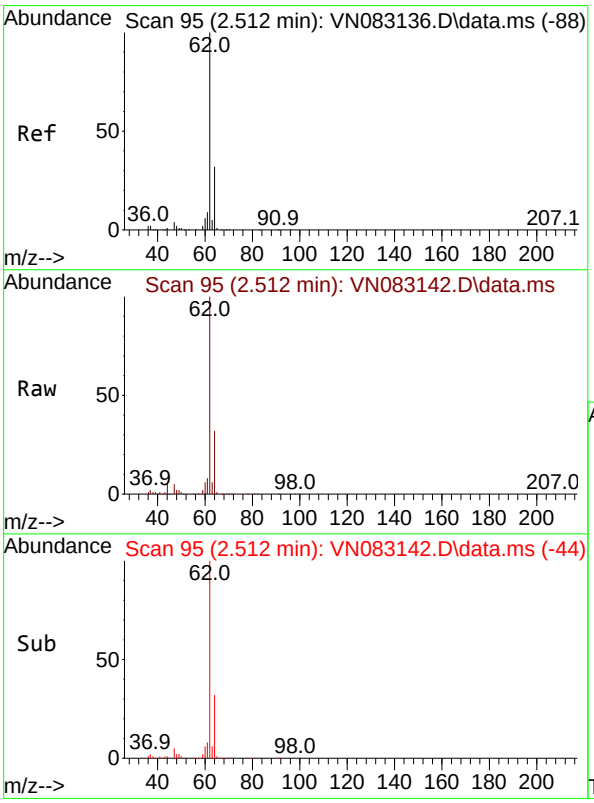
Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.0	37.4



Instrument :
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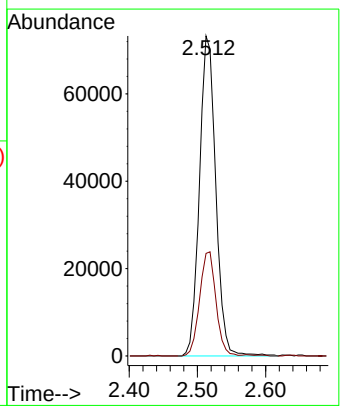
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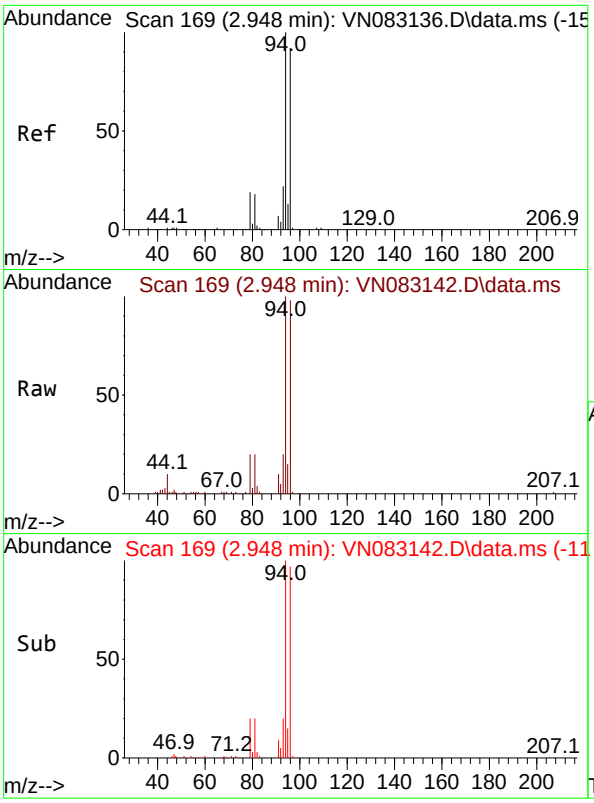


#4
Vinyl Chloride
Concen: 45.937 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 62 Resp: 121730

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.0	37.6

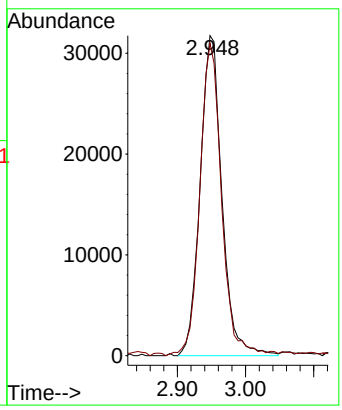




#5
Bromomethane
Concen: 42.984 ug/l
RT: 2.948 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 94 Resp: 7067

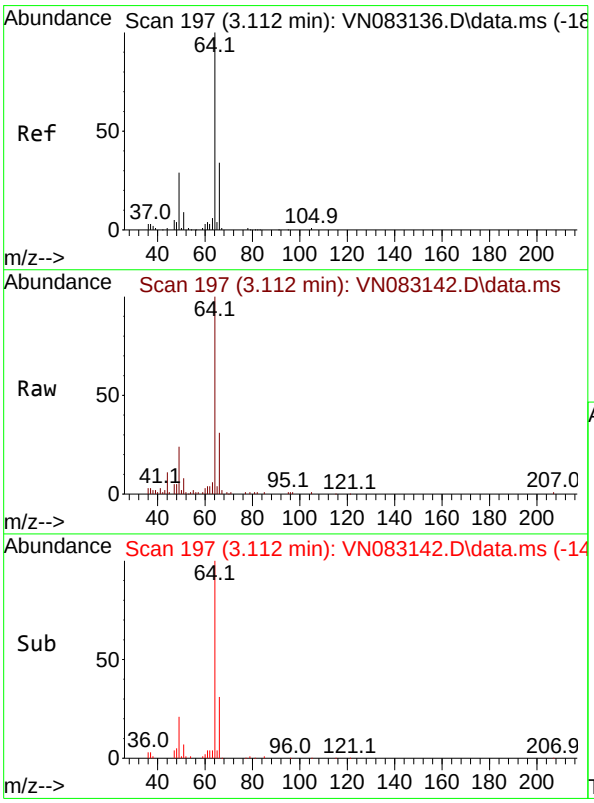
Ion	Ratio	Lower	Upper
94	100		
96	96.9	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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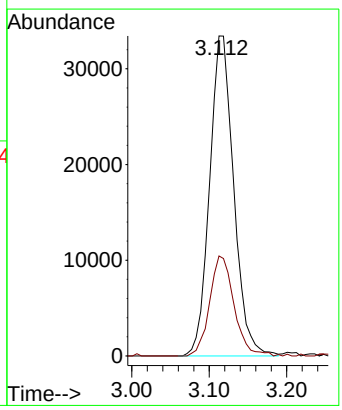
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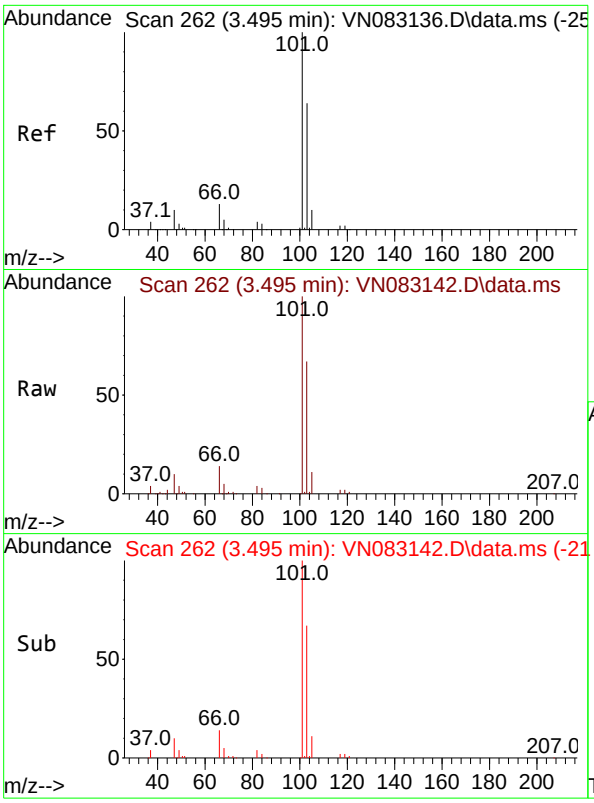


#6
Chloroethane
Concen: 43.725 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 64 Resp: 72491

Ion	Ratio	Lower	Upper
64	100		
66	31.3	26.6	40.0





#7
Trichlorofluoromethane
Concen: 47.124 ug/l
RT: 3.495 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

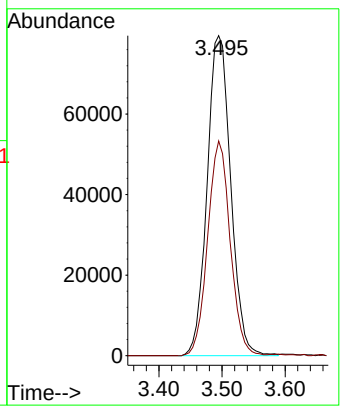
Tgt Ion:101 Resp: 20629

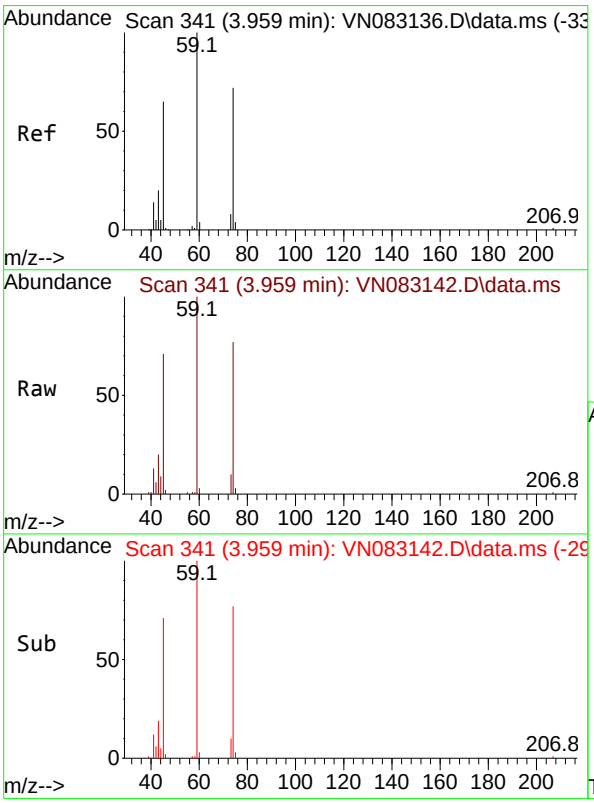
Ion	Ratio	Lower	Upper
101	100		
103	67.1	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

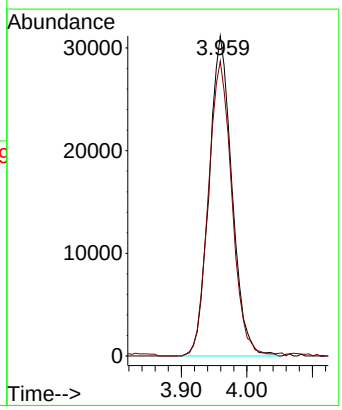


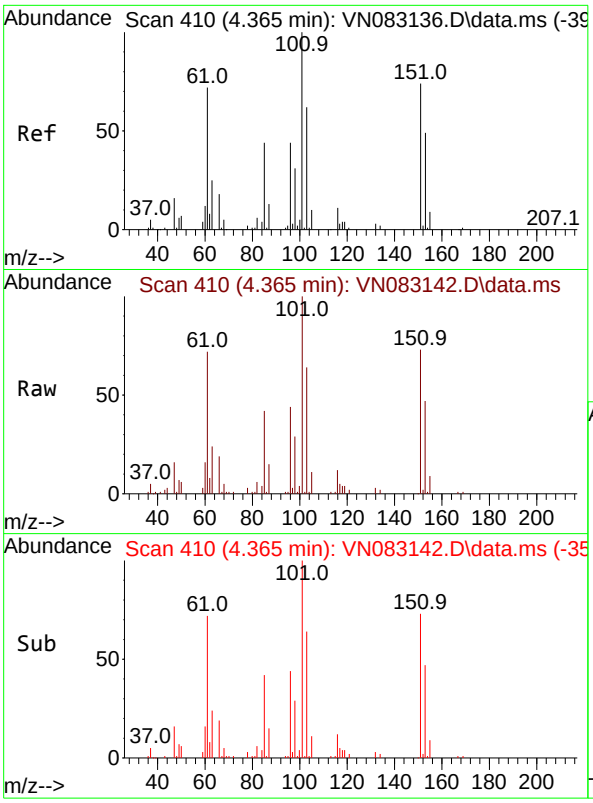


#8
Diethyl Ether
Concen: 46.259 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 74 Resp: 75355

Ion	Ratio	Lower	Upper
74	100		
45	94.7	55.5	166.3

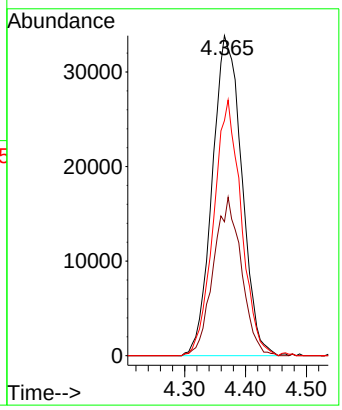




#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.176 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:101 Resp: 11386

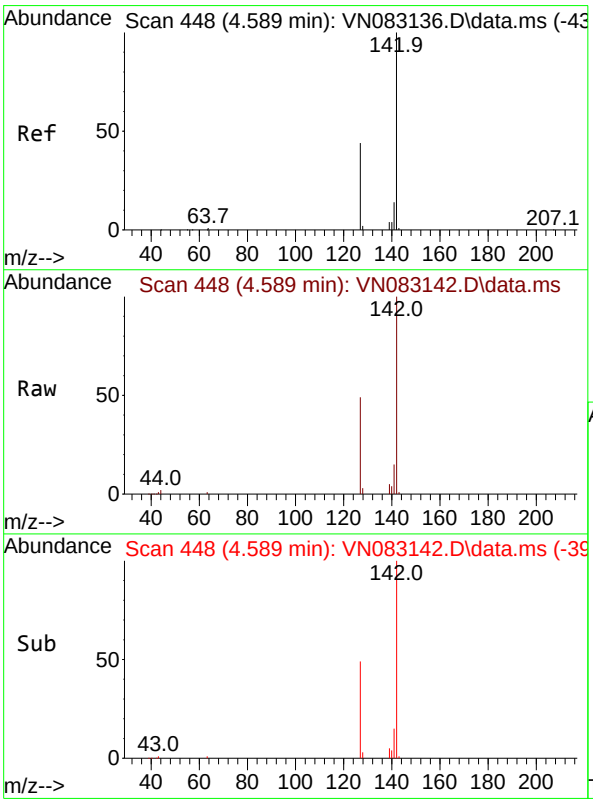
Ion	Ratio	Lower	Upper
101	100		
85	47.0	38.3	57.5
151	75.1	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

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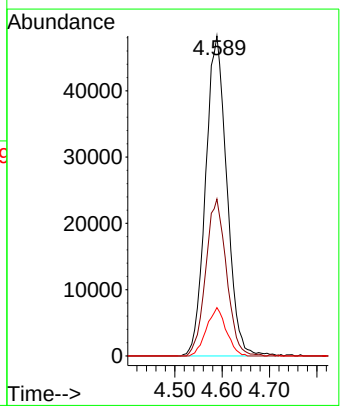
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

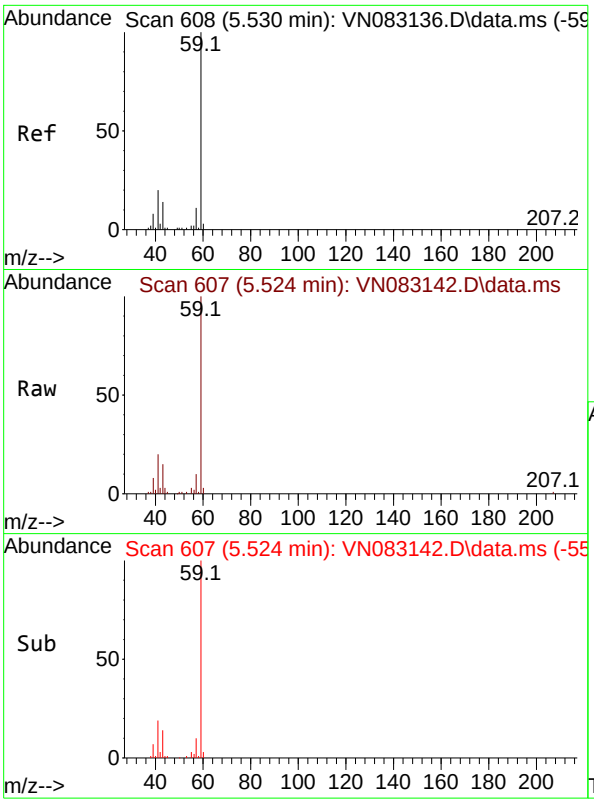


#10
Methyl Iodide
Concen: 47.349 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:142 Resp: 150327

Ion	Ratio	Lower	Upper
142	100		
127	49.1	37.5	56.3
141	15.1	13.1	19.7

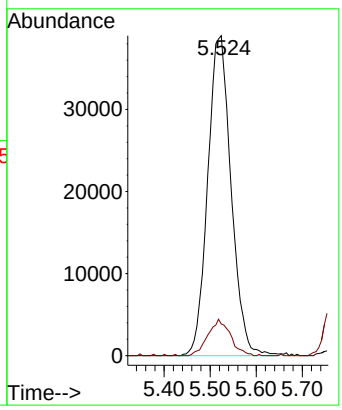




#11
Tert butyl alcohol
Concen: 208.135 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 59 Resp: 13771

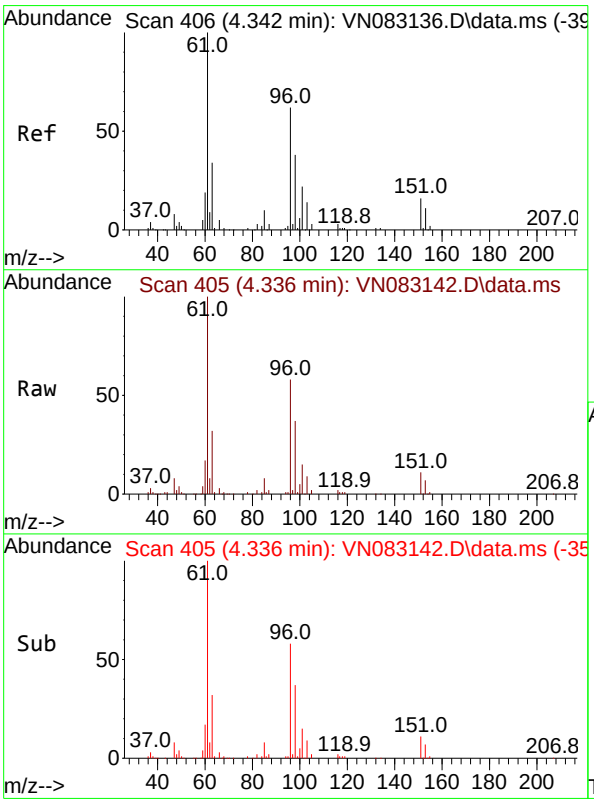
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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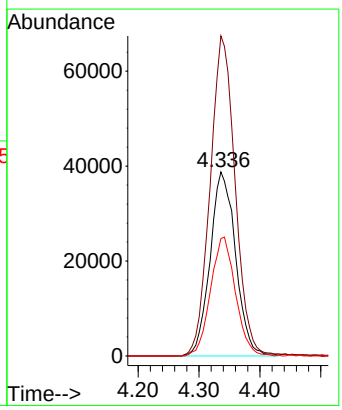
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

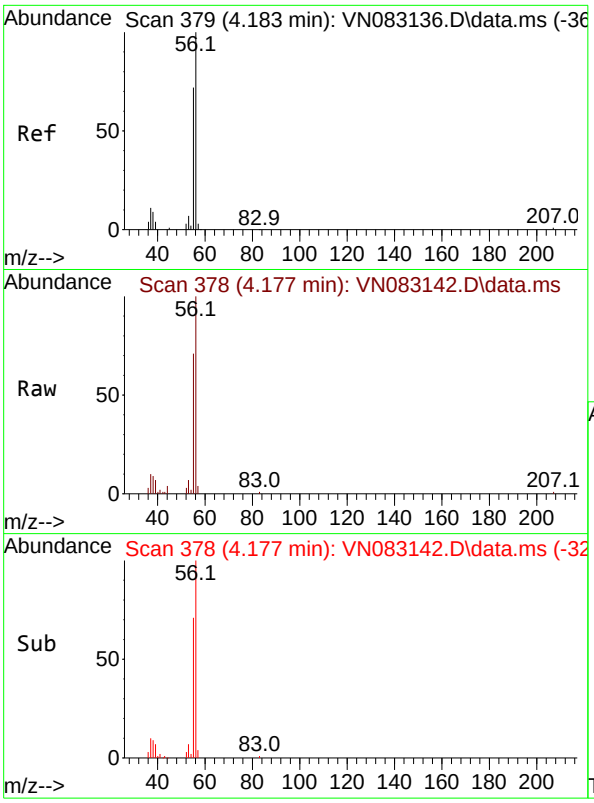


#12
1,1-Dichloroethene
Concen: 45.562 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 96 Resp: 112976

Ion	Ratio	Lower	Upper
96	100		
61	173.9	149.7	224.5
98	63.8	50.1	75.1

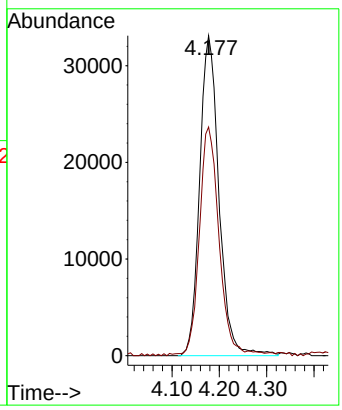




#13
Acrolein
Concen: 217.571 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 56 Resp: 9382

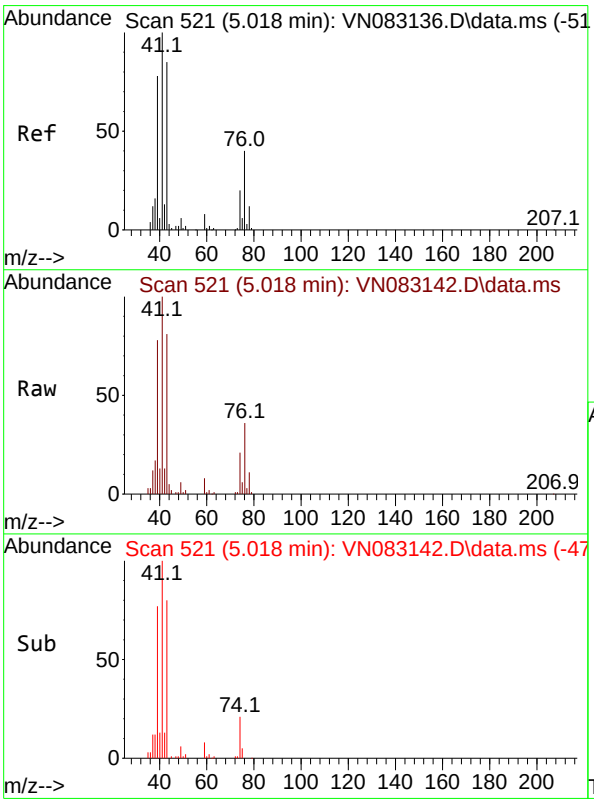
Ion	Ratio	Lower	Upper
56	100		
55	73.1	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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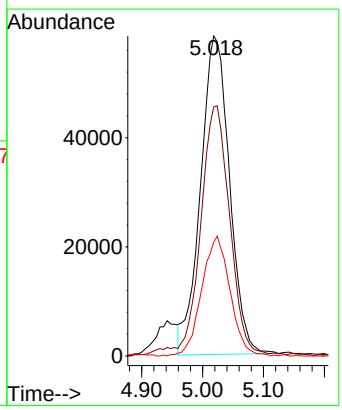
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

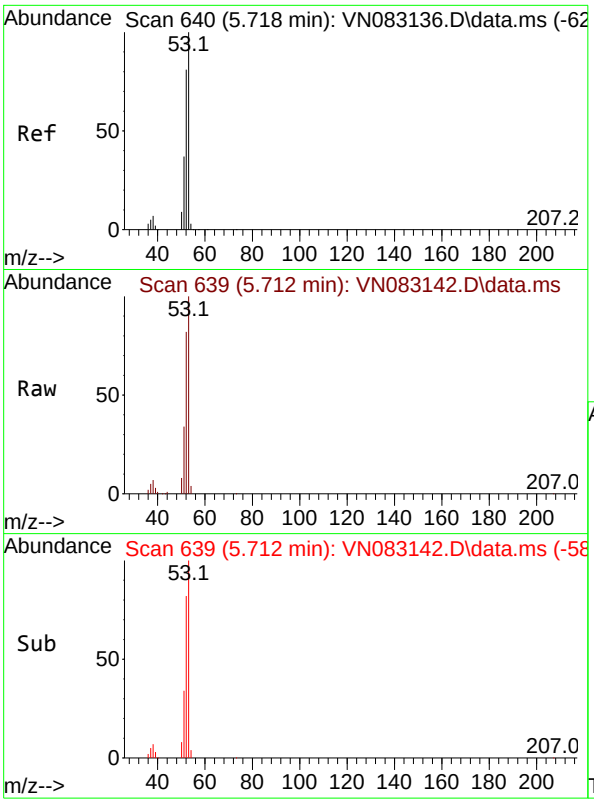


#14
Allyl chloride
Concen: 41.173 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 41 Resp: 192929

Ion	Ratio	Lower	Upper
41	100		
39	79.9	67.8	101.6
76	36.7	25.8	38.8

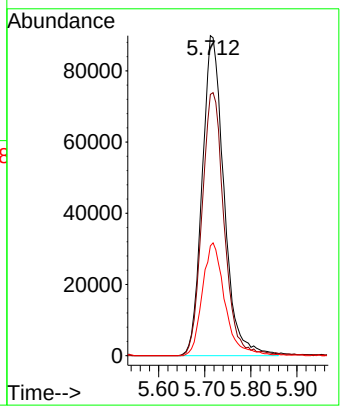




#15
Acrylonitrile
Concen: 217.950 ug/l
RT: 5.712 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 53 Resp: 29659

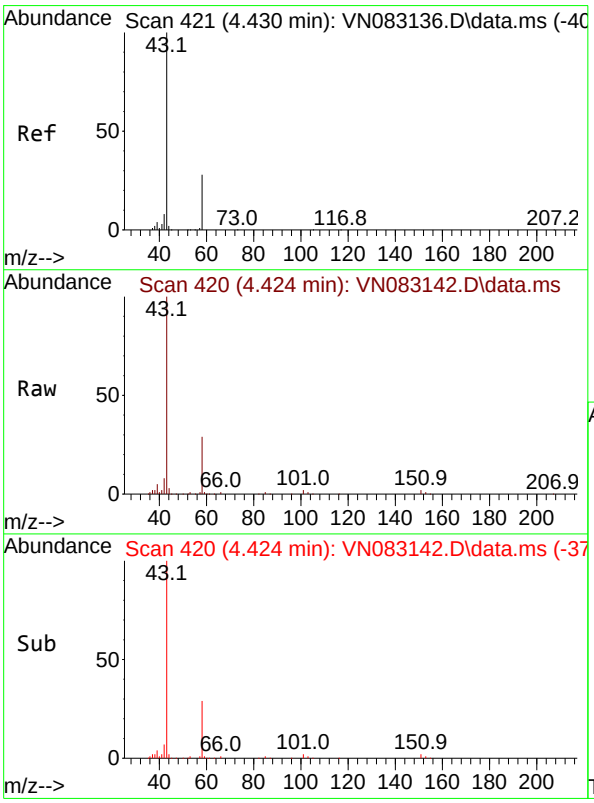
Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.6	100.0
51	36.5	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

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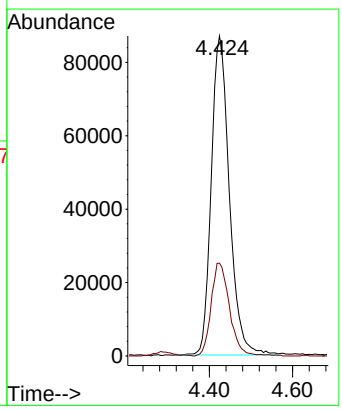
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

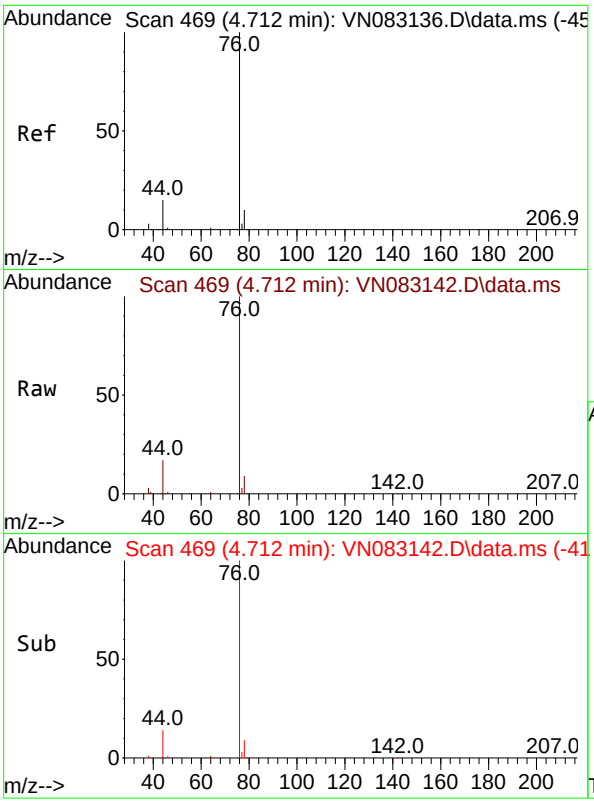


#16
Acetone
Concen: 210.840 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 262677

Ion	Ratio	Lower	Upper
43	100		
58	28.9	21.8	32.6





#17
Carbon Disulfide
Concen: 43.689 ug/l
RT: 4.712 min Scan# 4(
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

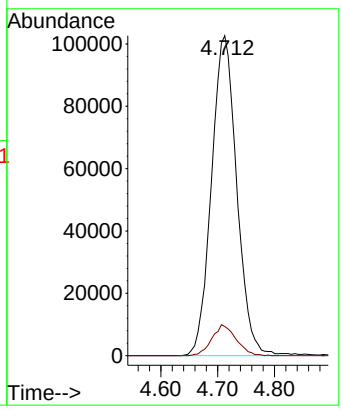
Tgt Ion: 76 Resp: 31698(

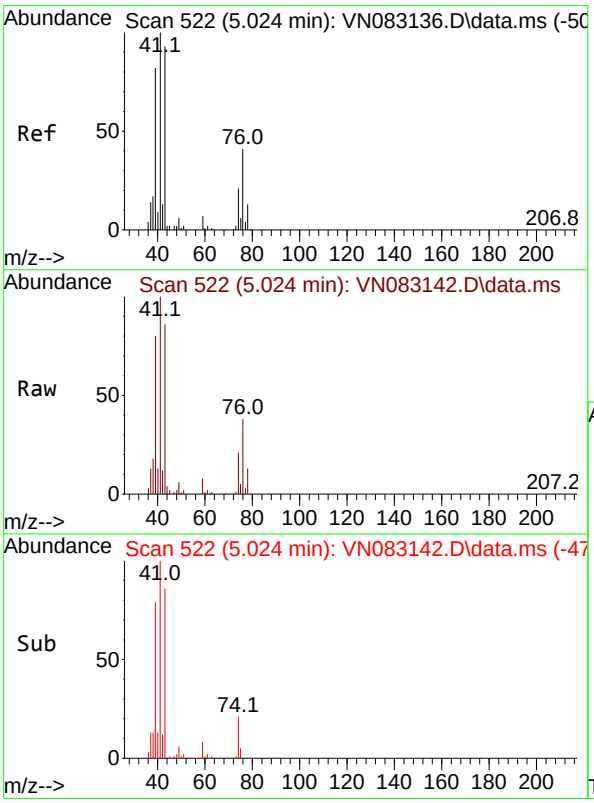
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

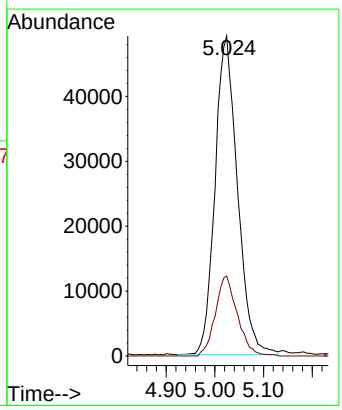


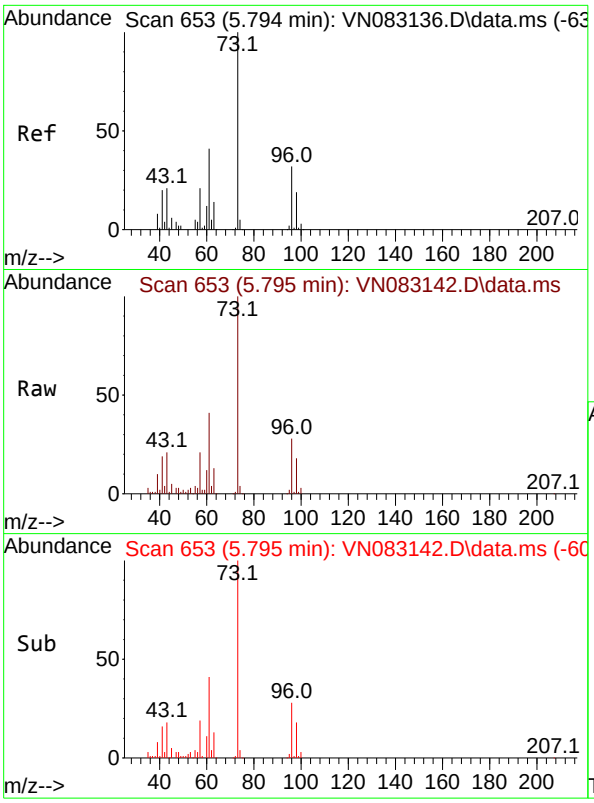


#18
Methyl Acetate
Concen: 42.397 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 157374

Ion	Ratio	Lower	Upper
43	100		
74	24.6	16.3	24.5#

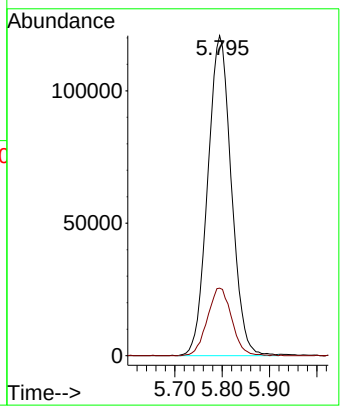




#19
Methyl tert-butyl Ether
Concen: 46.781 ug/l
RT: 5.795 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 73 Resp: 41869

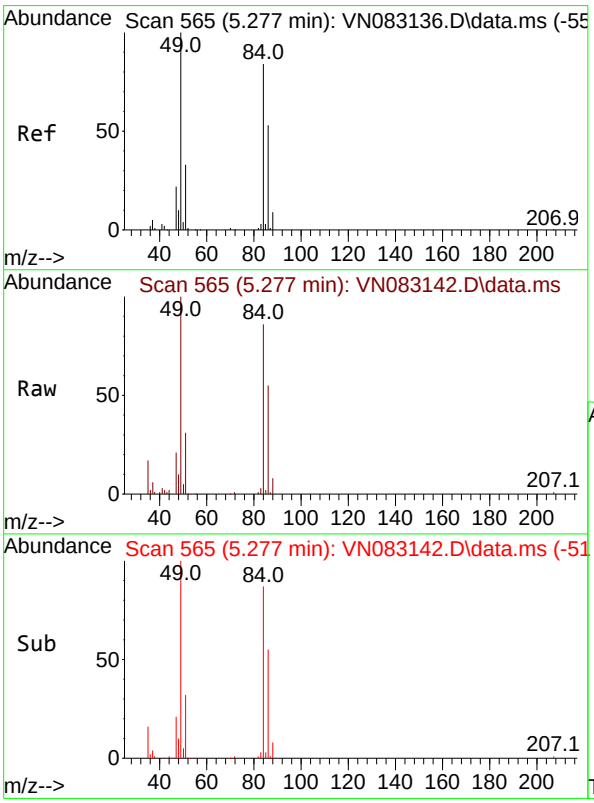
Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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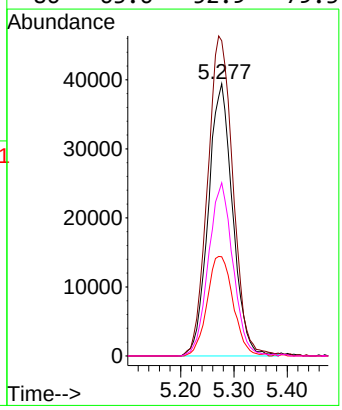
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

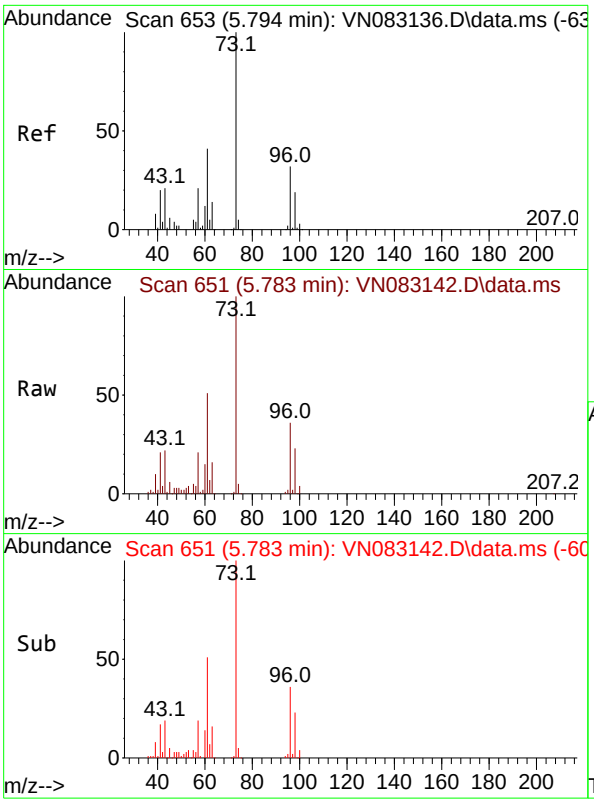


#20
Methylene Chloride
Concen: 43.645 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 84 Resp: 125142

Ion	Ratio	Lower	Upper
84	100		
49	115.8	119.6	179.4#
51	36.5	34.8	52.2
86	63.6	52.9	79.3

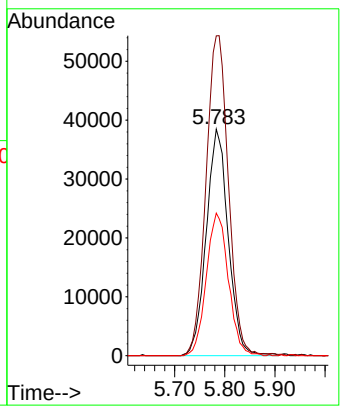




#21
trans-1,2-Dichloroethene
Concen: 45.671 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 96 Resp: 11704

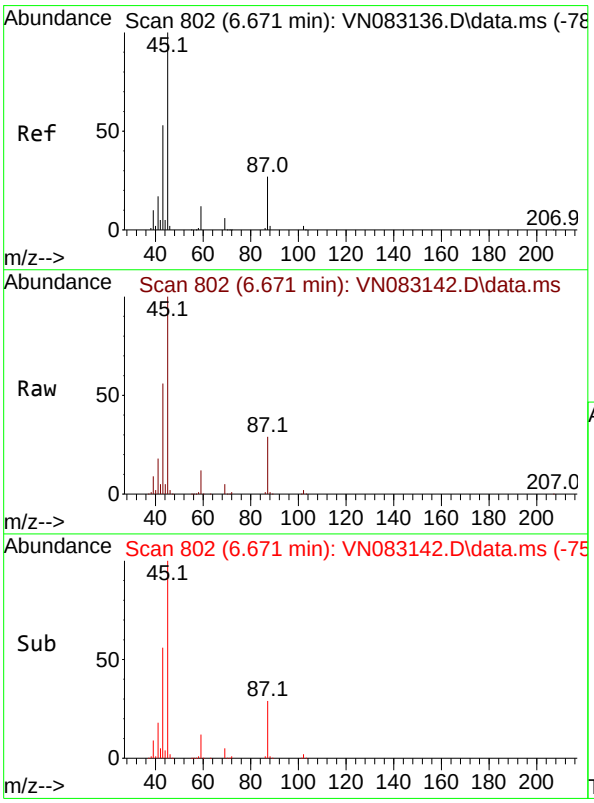
Ion	Ratio	Lower	Upper
96	100		
61	141.1	123.4	185.2
98	62.9	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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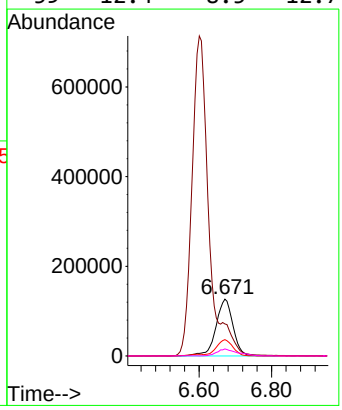
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

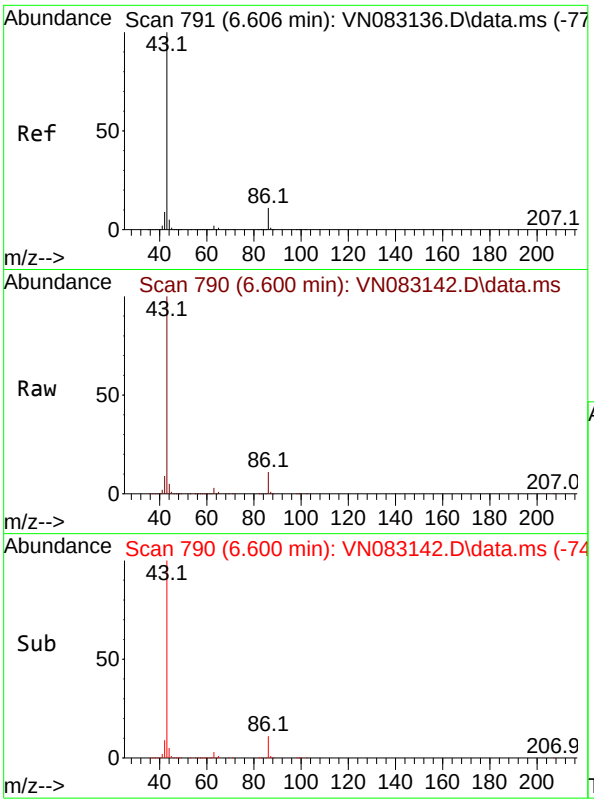


#22
Diisopropyl ether
Concen: 46.881 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 45 Resp: 412931

Ion	Ratio	Lower	Upper
45	100		
43	55.6	44.0	66.0
87	28.6	19.7	29.5
59	12.4	8.5	12.7

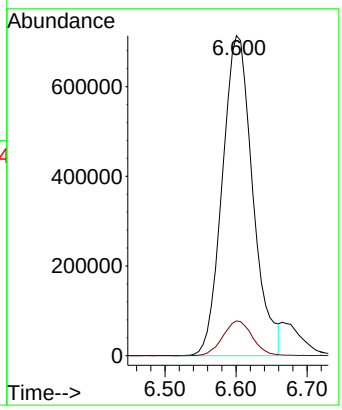




#23
Vinyl Acetate
Concen: 235.414 ug/l
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 212534

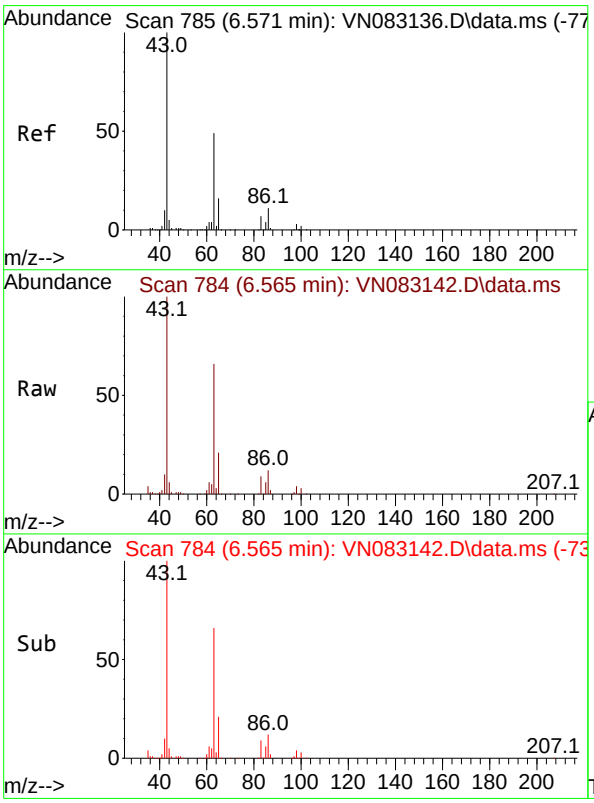
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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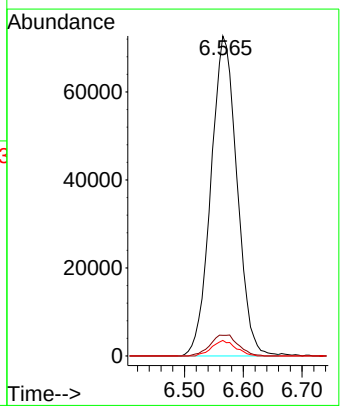
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

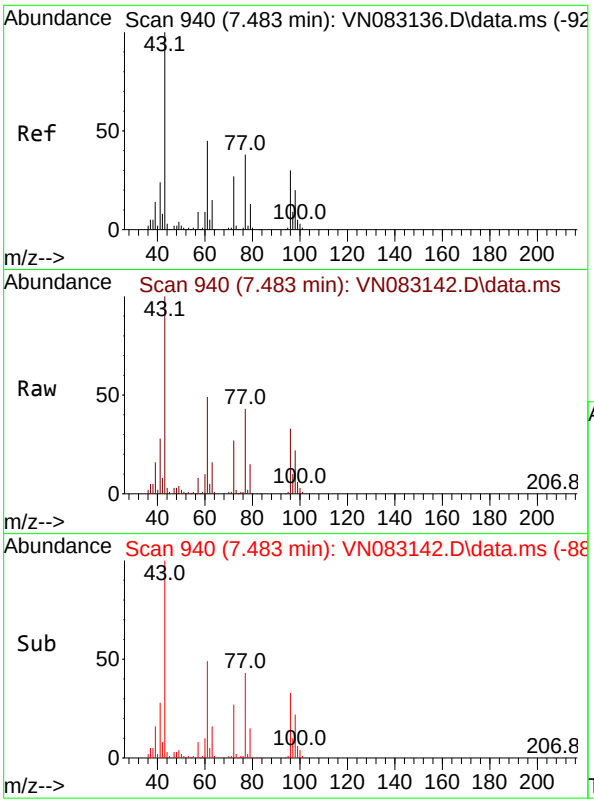


#24
1,1-Dichloroethane
Concen: 46.685 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 63 Resp: 224136

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.9
100	4.9	2.0	6.0





#25
2-Butanone
Concen: 211.782 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

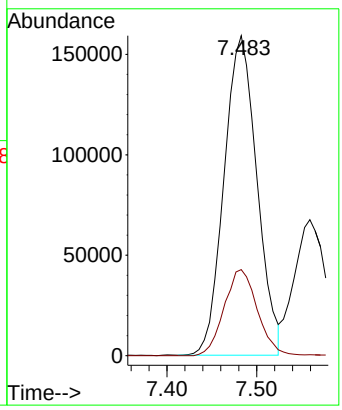
Tgt Ion: 43 Resp: 40513

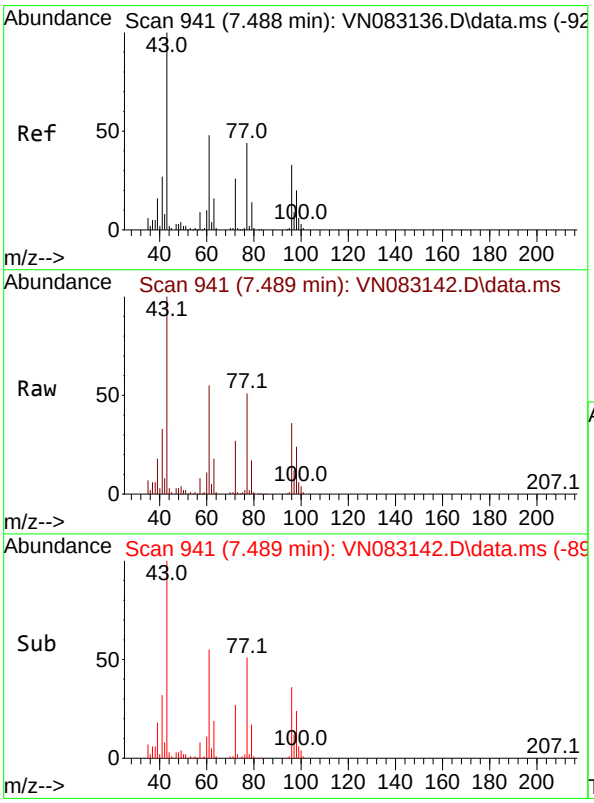
Ion	Ratio	Lower	Upper
43	100		
72	26.9	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

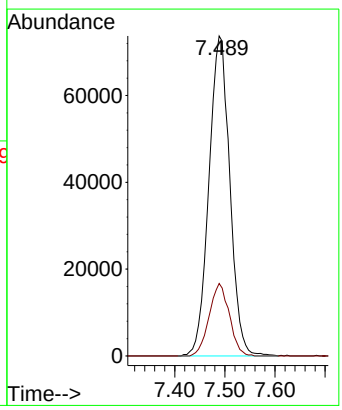


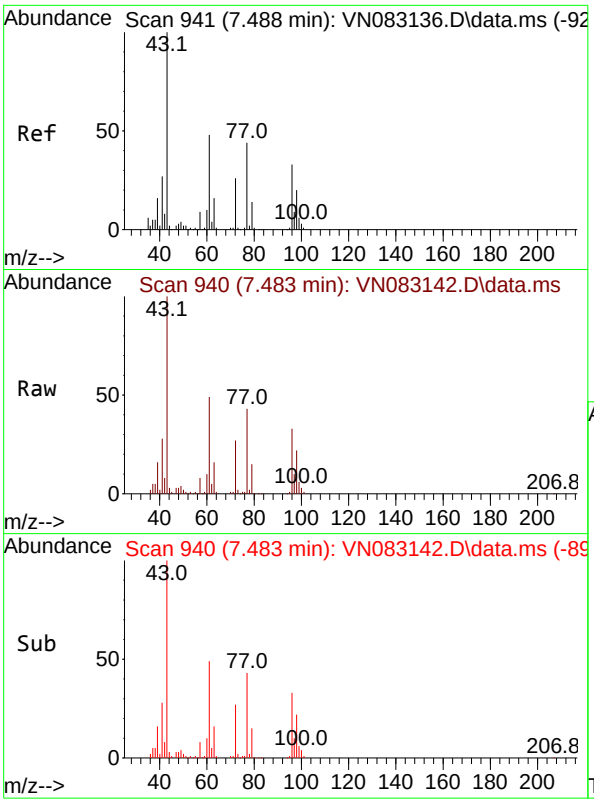


#26
2,2-Dichloropropane
Concen: 47.853 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 77 Resp: 213355

Ion	Ratio	Lower	Upper
77	100		
97	21.9	10.3	30.9





#27
cis-1,2-Dichloroethene
Concen: 46.113 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

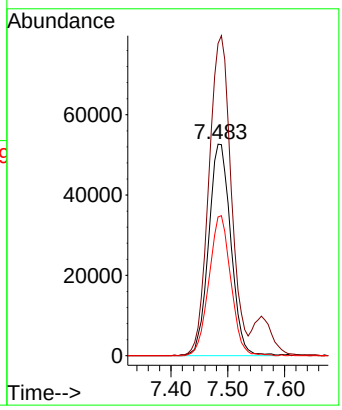
Tgt Ion: 96 Resp: 14260

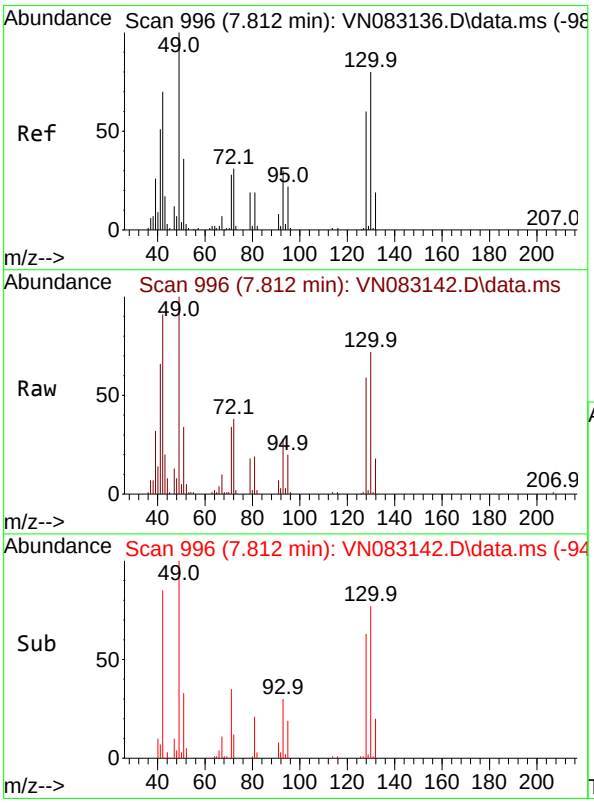
Ion	Ratio	Lower	Upper
96	100		
61	151.9	0.0	329.6
98	65.2	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

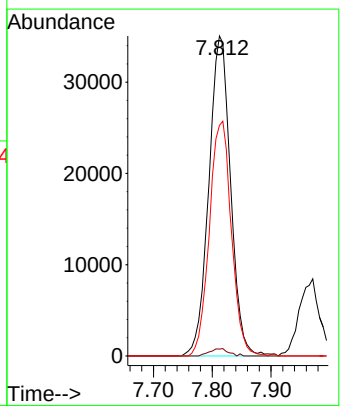


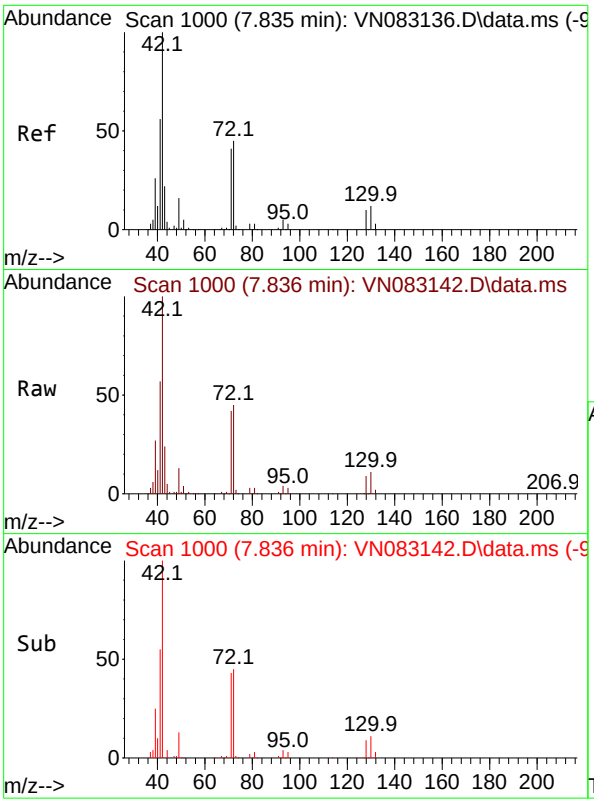


#28
Bromochloromethane
Concen: 45.986 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 49 Resp: 90226

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	73.9	50.5	75.7

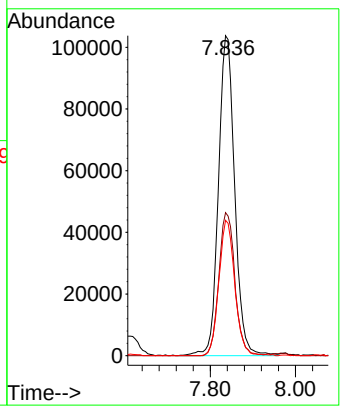




#29
Tetrahydrofuran
Concen: 222.147 ug/l
RT: 7.836 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 42 Resp: 27471

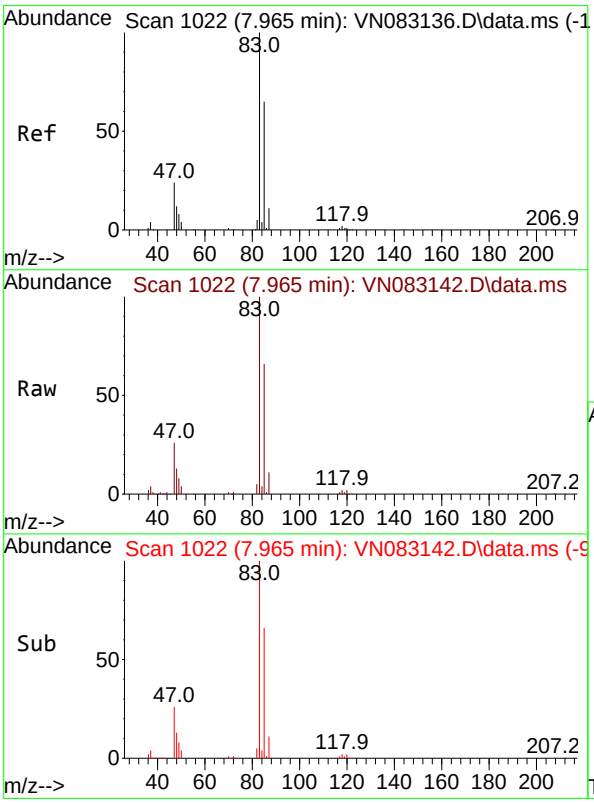
Ion	Ratio	Lower	Upper
42	100		
72	44.2	30.0	45.0
71	41.5	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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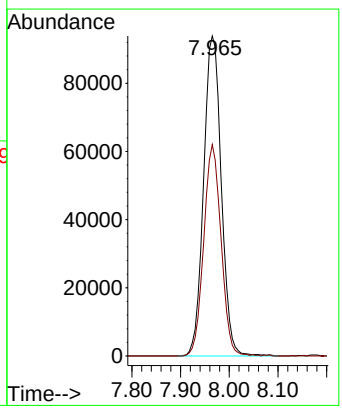
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

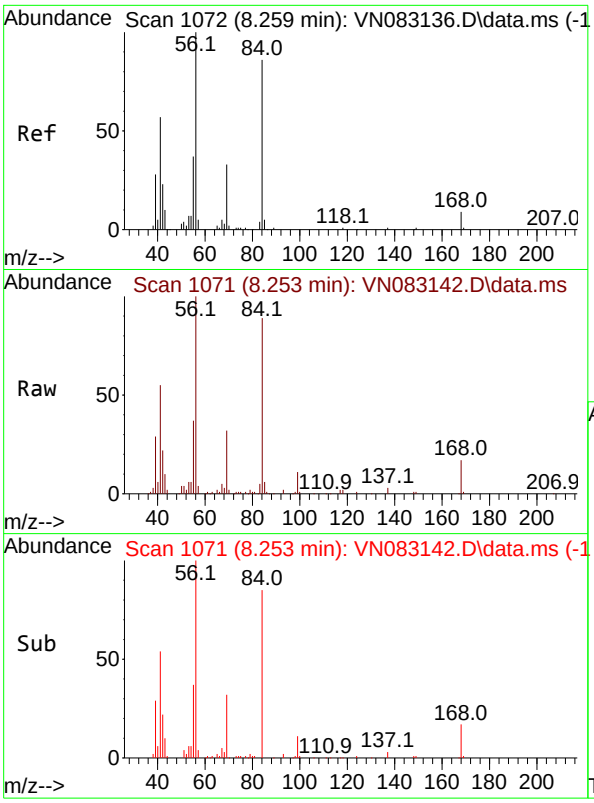


#30
Chloroform
Concen: 47.387 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 83 Resp: 236359

Ion	Ratio	Lower	Upper
83	100		
85	66.1	50.9	76.3

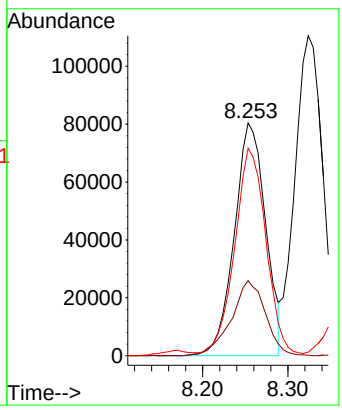




#31
Cyclohexane
Concen: 43.474 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 56 Resp: 20512

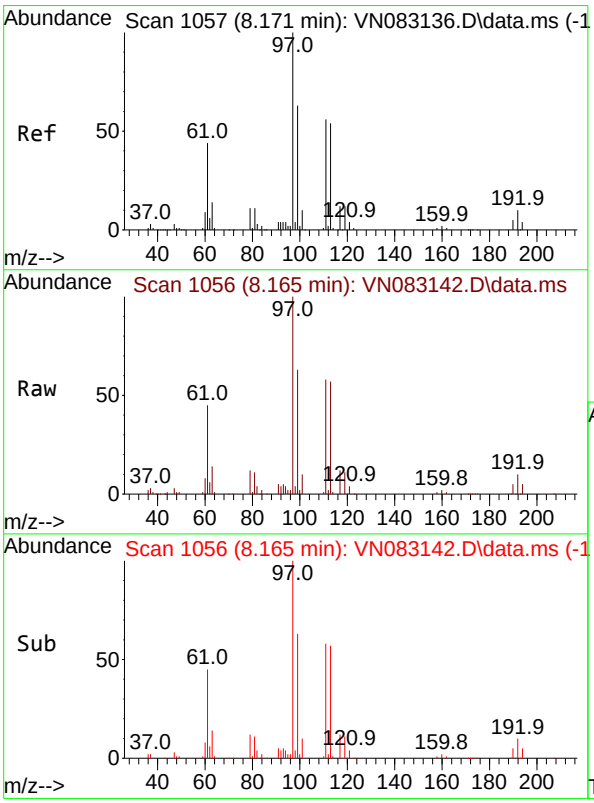
Ion	Ratio	Lower	Upper
56	100		
69	32.3	24.5	36.7
84	86.7	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

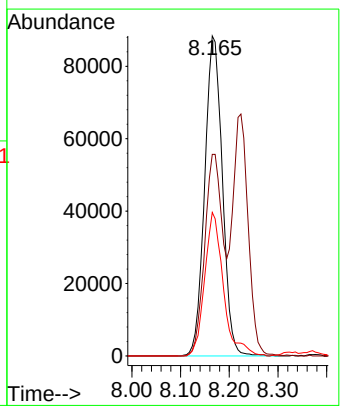
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

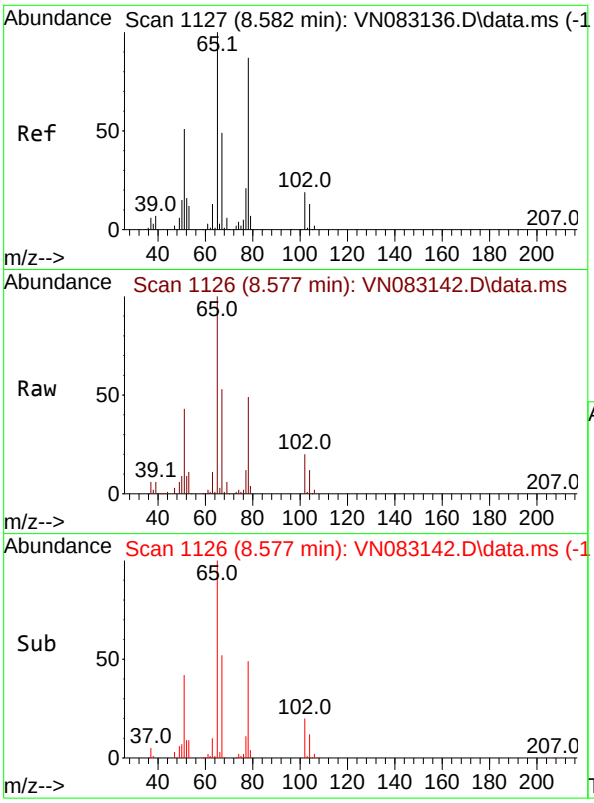


#32
1,1,1-Trichloroethane
Concen: 47.135 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 97 Resp: 222538

Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.0	78.0
61	47.5	42.1	63.1





#33
1,2-Dichloroethane-d4
Concen: 50.583 ug/l
RT: 8.577 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

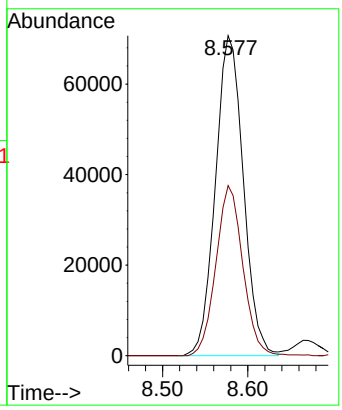
Tgt Ion: 65 Resp: 16105

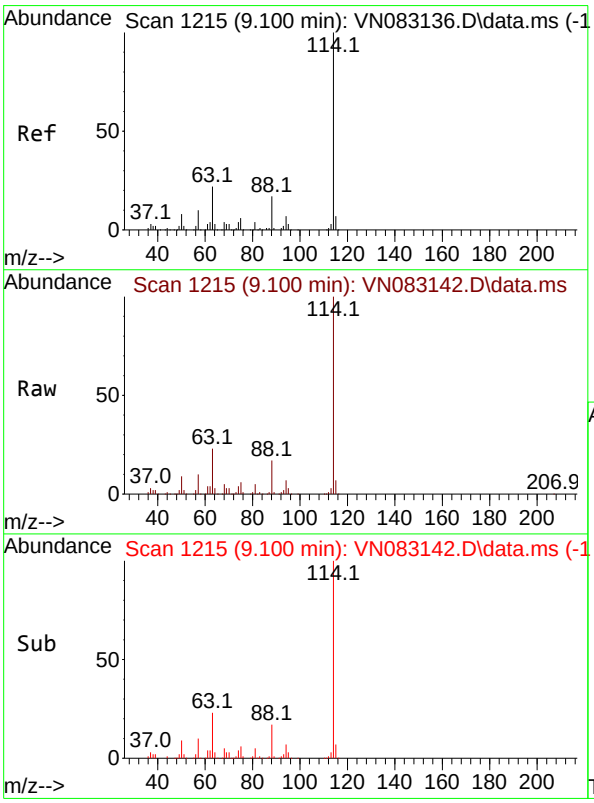
Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	104.4

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

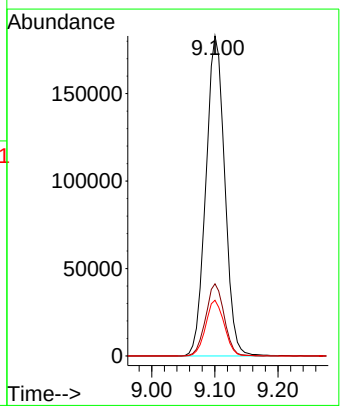


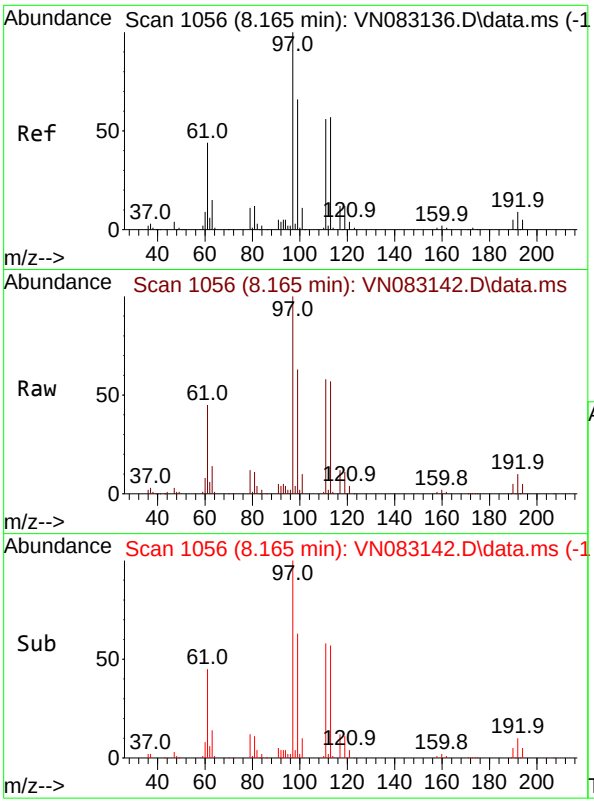


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:114 Resp: 380000

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	44.6
88	17.4	0.0	31.4

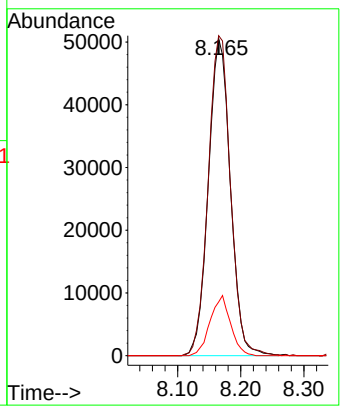




#35
Dibromofluoromethane
Concen: 51.549 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:113 Resp: 12226

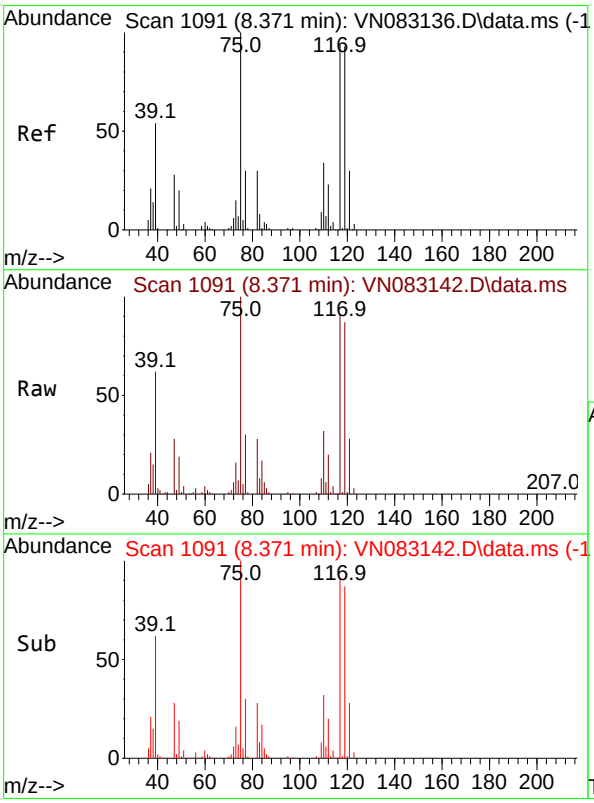
Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.4	123.6
192	17.6	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

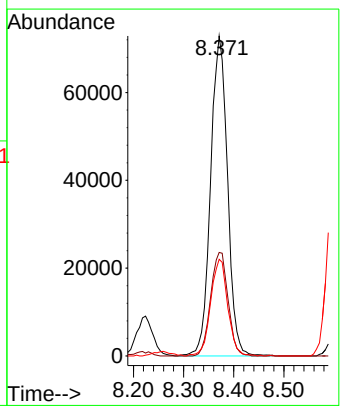
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

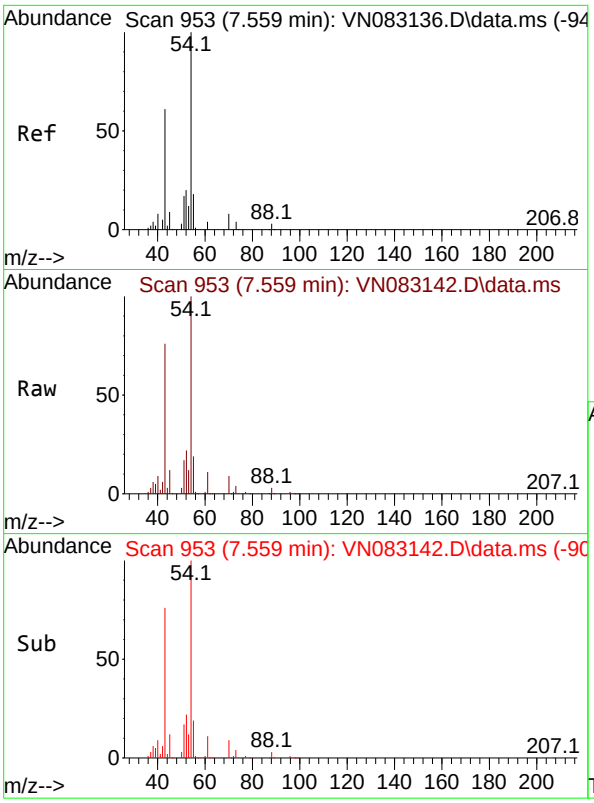


#36
1,1-Dichloropropene
Concen: 47.732 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 171262

Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.3	48.9
77	30.5	24.6	37.0

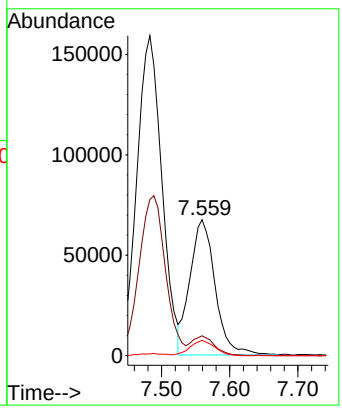




#37
Ethyl Acetate
Concen: 43.124 ug/l
RT: 7.559 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 17324

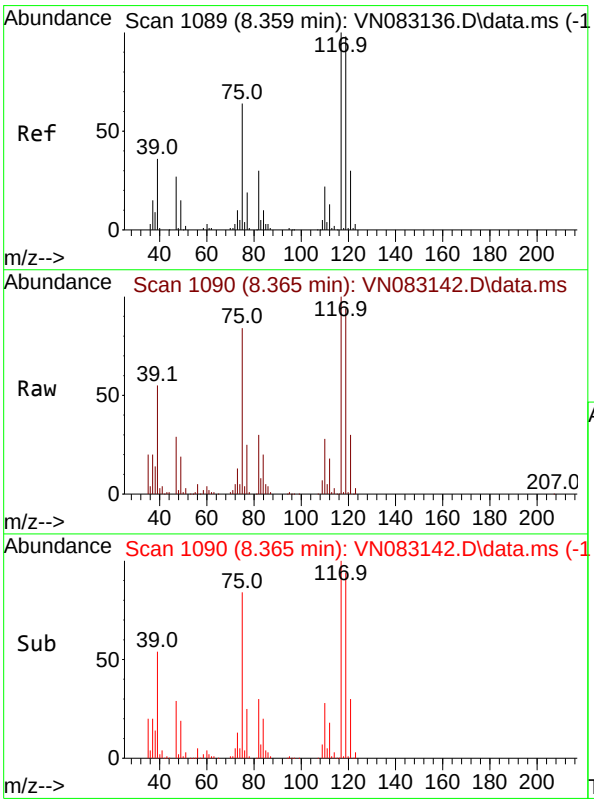
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.3	13.9
70	11.0	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

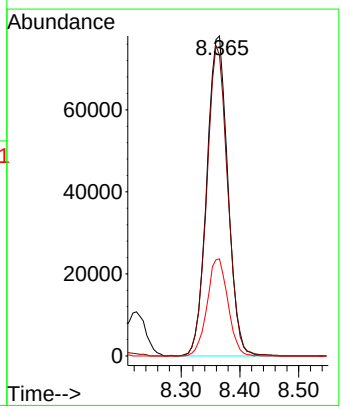
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

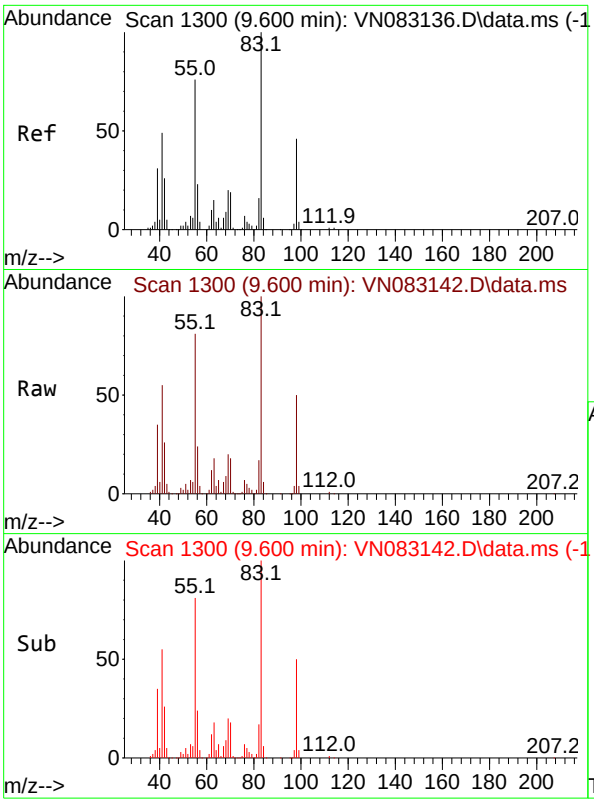


#38
Carbon Tetrachloride
Concen: 47.904 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:117 Resp: 193592

Ion	Ratio	Lower	Upper
117	100		
119	94.0	74.9	112.3
121	30.3	24.3	36.5

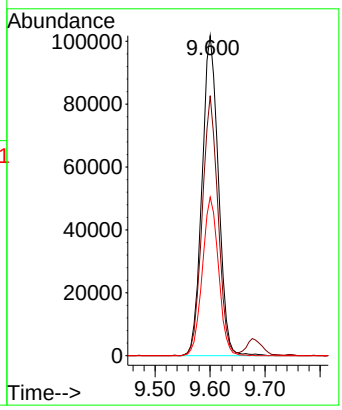




#39
Methylcyclohexane
Concen: 47.821 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 83 Resp: 21074

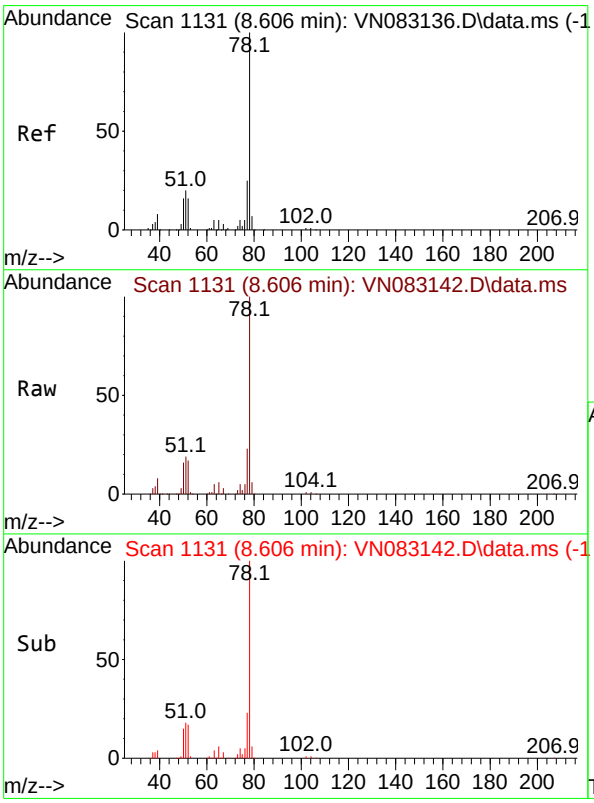
Ion	Ratio	Lower	Upper
83	100		
55	81.3	66.4	99.6
98	49.5	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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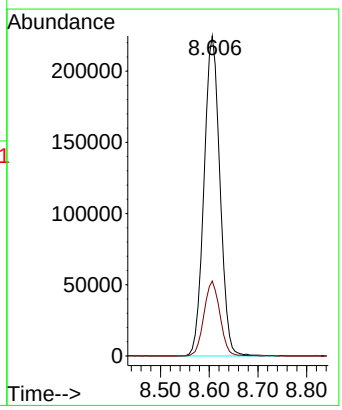
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

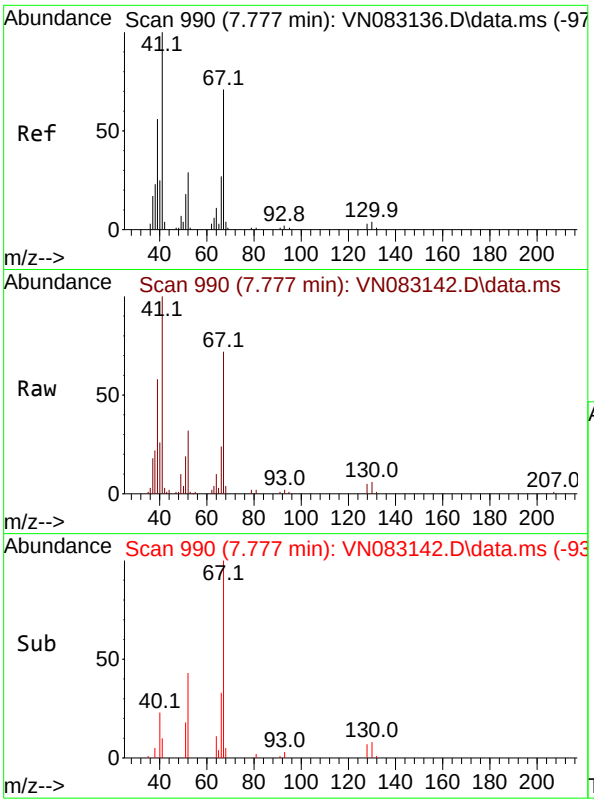


#40
Benzene
Concen: 47.635 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 78 Resp: 509159

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4

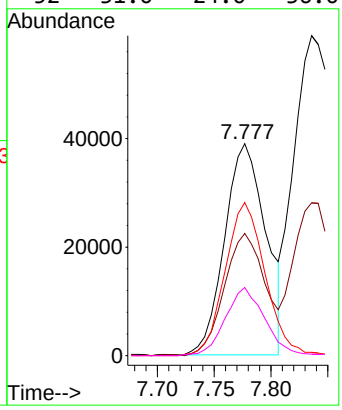




#41
Methacrylonitrile
Concen: 43.013 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 41 Resp: 9825

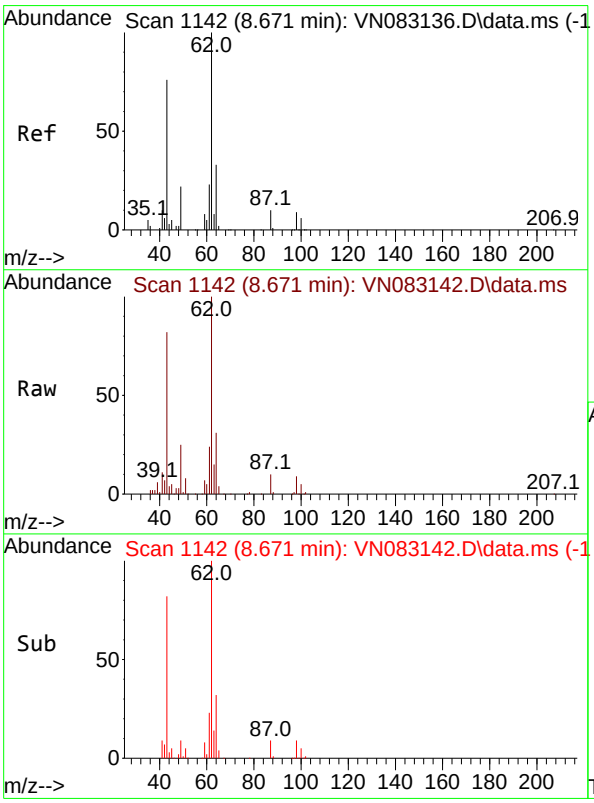
Ion	Ratio	Lower	Upper
41	100		
39	57.7	45.5	68.3
67	70.8	50.5	75.7
52	31.0	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

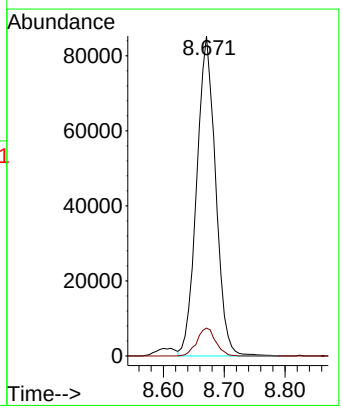
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

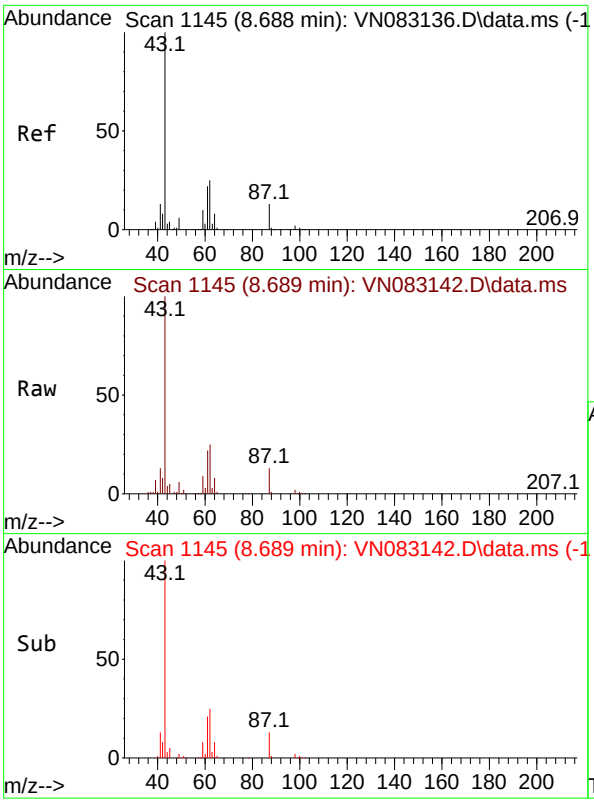


#42
1,2-Dichloroethane
Concen: 47.310 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 62 Resp: 184210

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	15.8





#43
Isopropyl Acetate
Concen: 45.577 ug/l
RT: 8.689 min Scan# 1
Delta R.T. 0.001 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

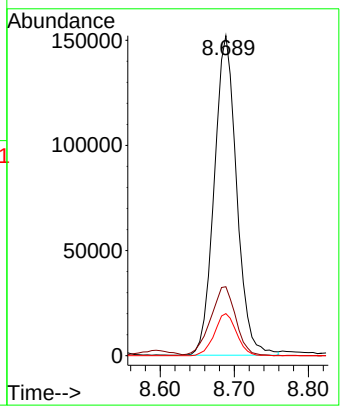
Tgt Ion: 43 Resp: 31954

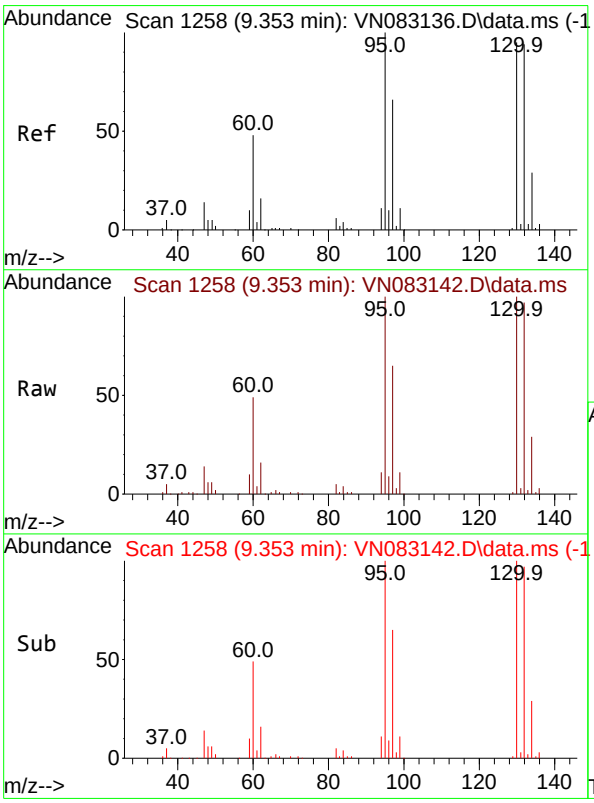
Ion	Ratio	Lower	Upper
43	100		
61	24.3	17.8	26.6
87	13.0	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

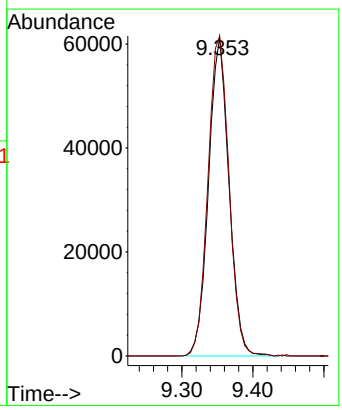


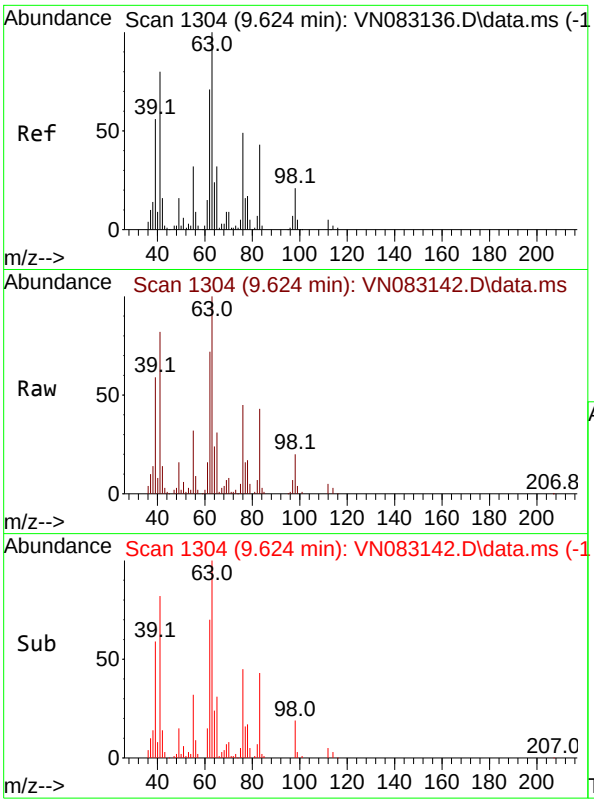


#44
Trichloroethene
Concen: 47.994 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:130 Resp: 122105

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	197.8

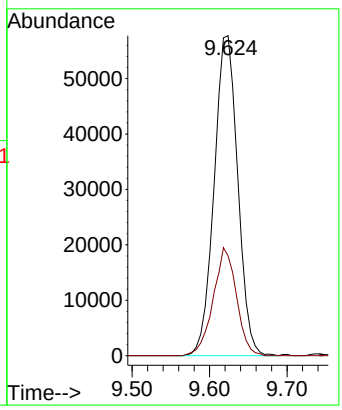




#45
1,2-Dichloropropane
Concen: 48.208 ug/l
RT: 9.624 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 63 Resp: 12231

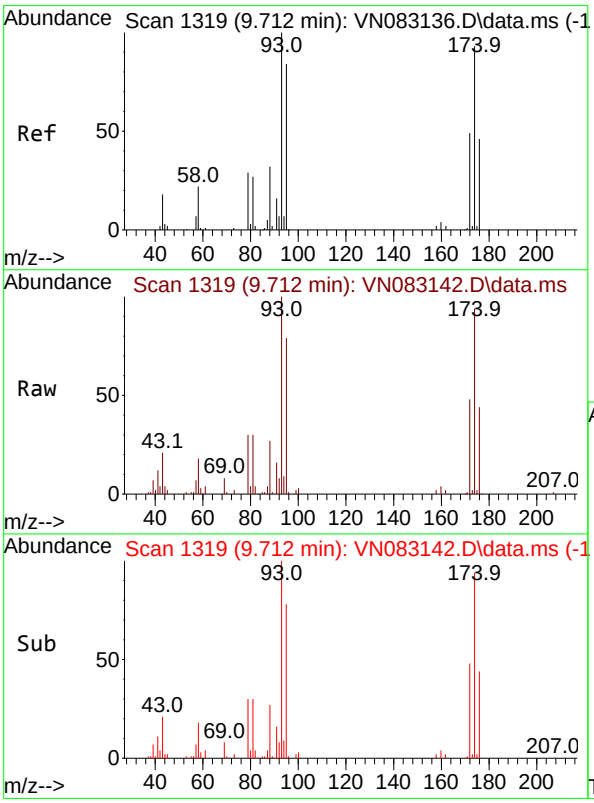
Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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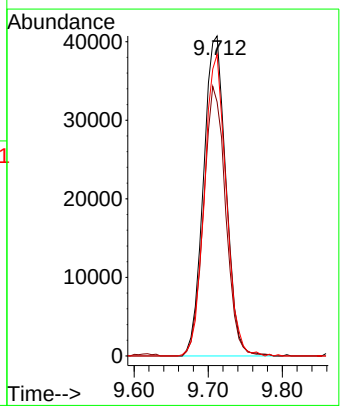
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

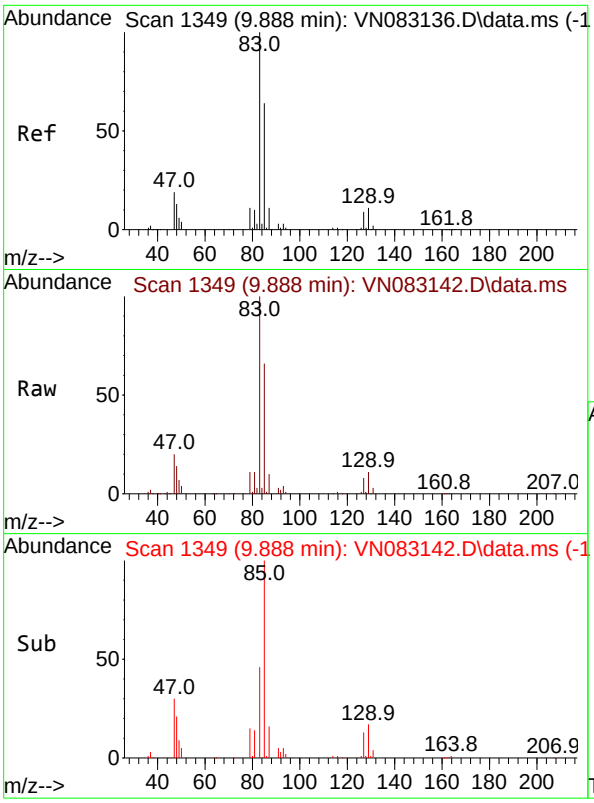


#46
Dibromomethane
Concen: 47.124 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 93 Resp: 85581

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.8	98.6
174	91.4	71.7	107.5

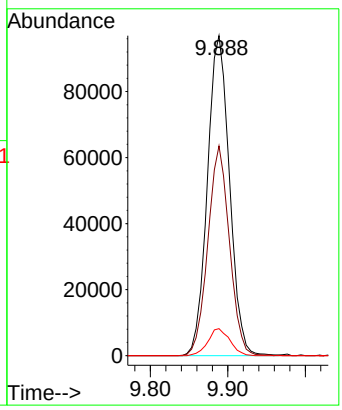




#47
Bromodichloromethane
Concen: 47.047 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 83 Resp: 19184

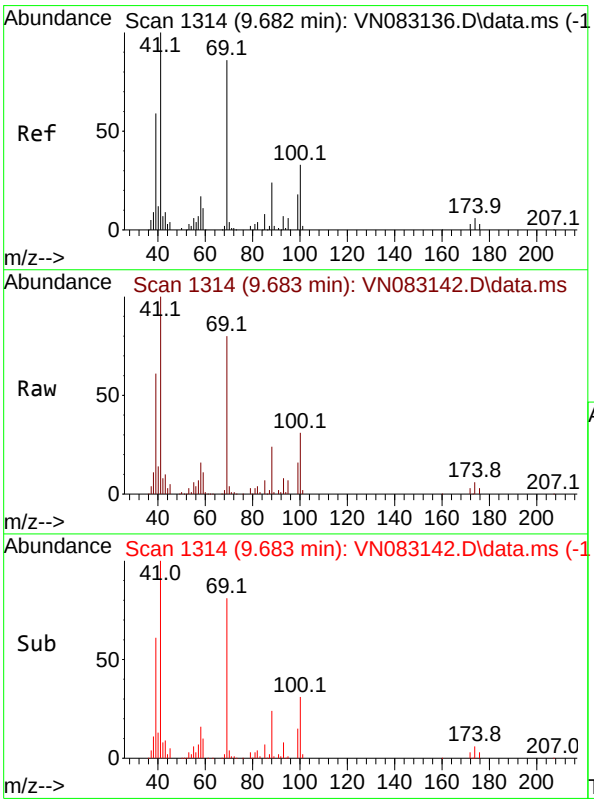
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.1	76.7
127	8.5	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

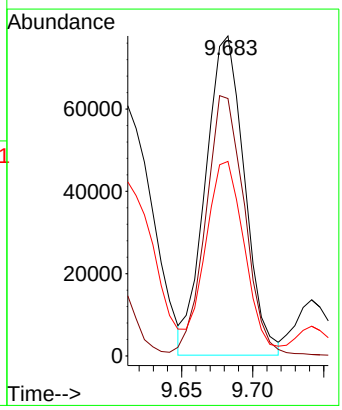
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

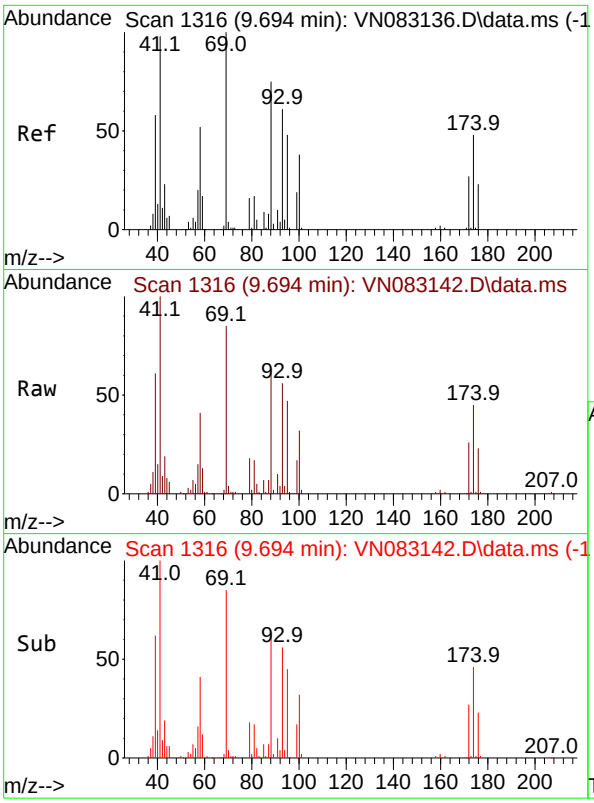


#48
Methyl methacrylate
Concen: 44.609 ug/l
RT: 9.683 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 41 Resp: 148161

Ion	Ratio	Lower	Upper
41	100		
69	81.0	56.3	84.5
39	60.7	50.3	75.5

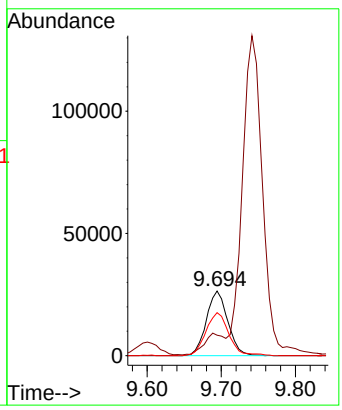




#49
1,4-Dioxane
Concen: 885.211 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 88 Resp: 5304

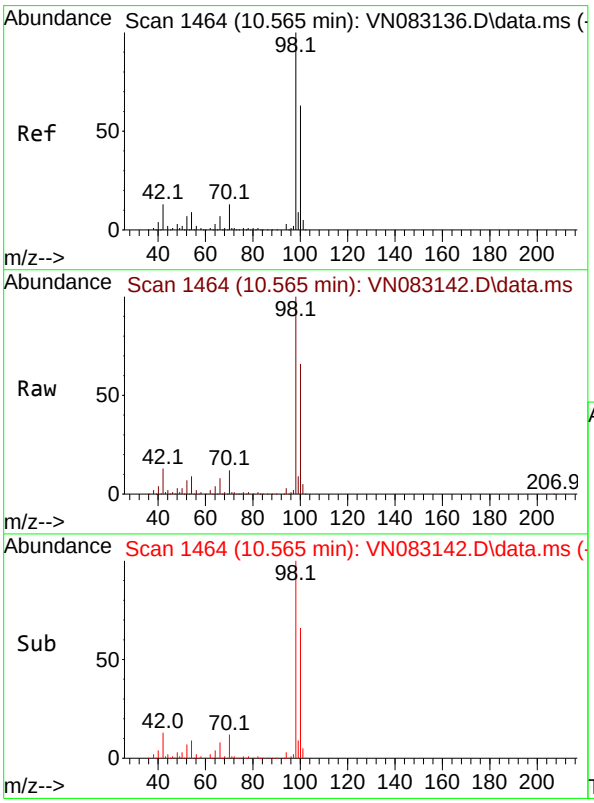
Ion	Ratio	Lower	Upper
88	100		
43	32.0	27.8	41.8
58	71.4	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

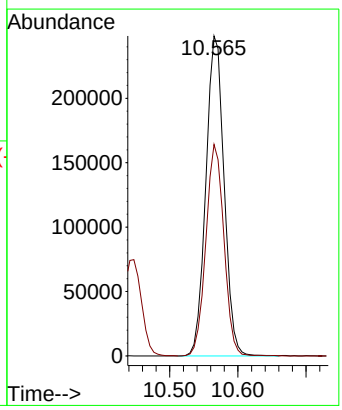
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

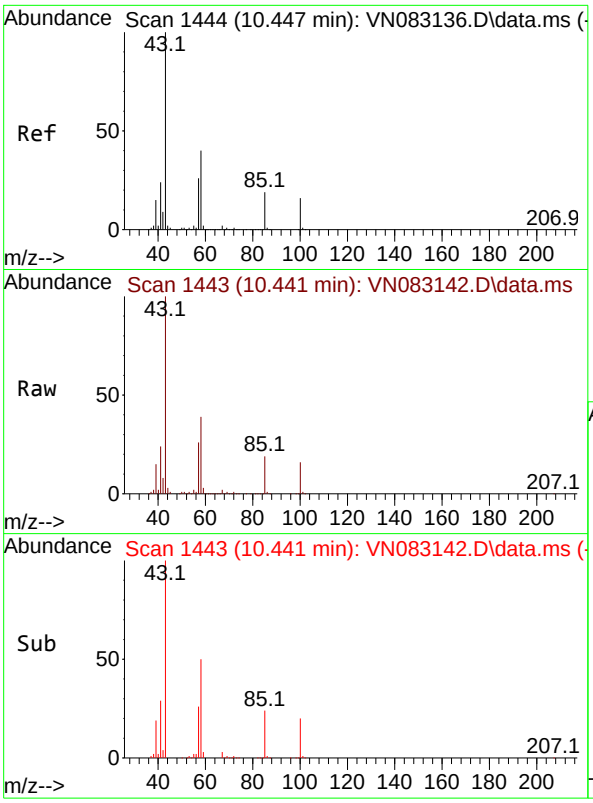


#50
Toluene-d8
Concen: 52.175 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 98 Resp: 461627

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.5	77.3

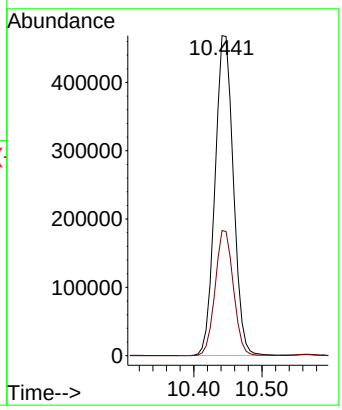




#51
4-Methyl-2-Pentanone
Concen: 230.917 ug/l
RT: 10.441 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 87724

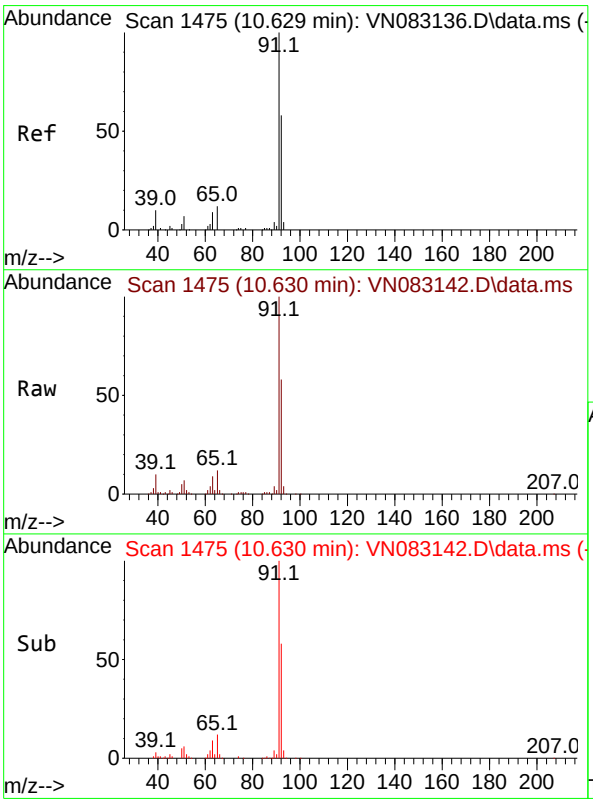
Ion	Ratio	Lower	Upper
43	100		
58	39.0	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

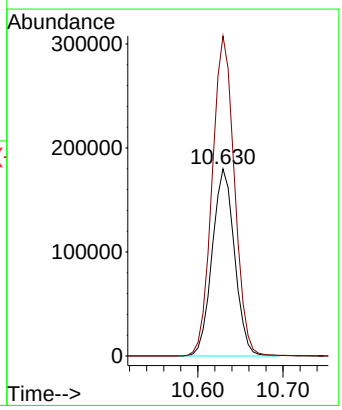
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

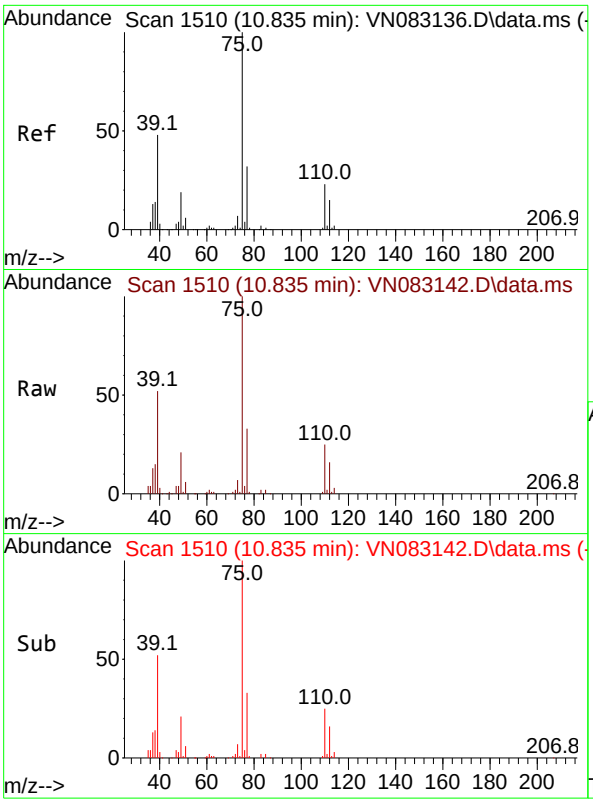


#52
Toluene
Concen: 48.520 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 92 Resp: 327682

Ion	Ratio	Lower	Upper
92	100		
91	170.9	139.4	209.0

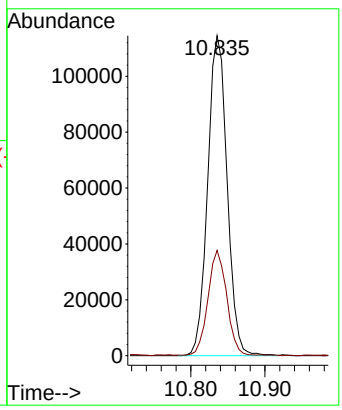




#53
t-1,3-Dichloropropene
Concen: 49.776 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 20849

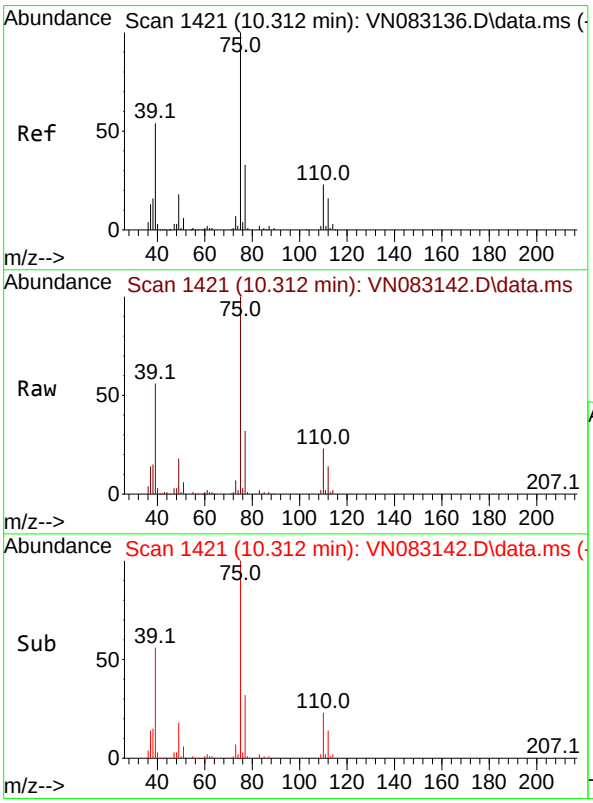
Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

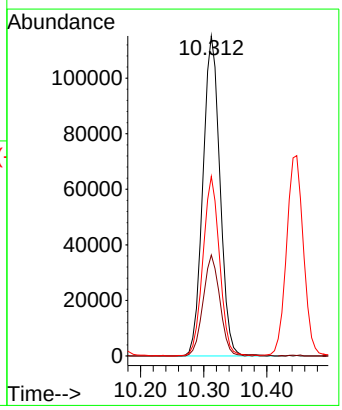
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

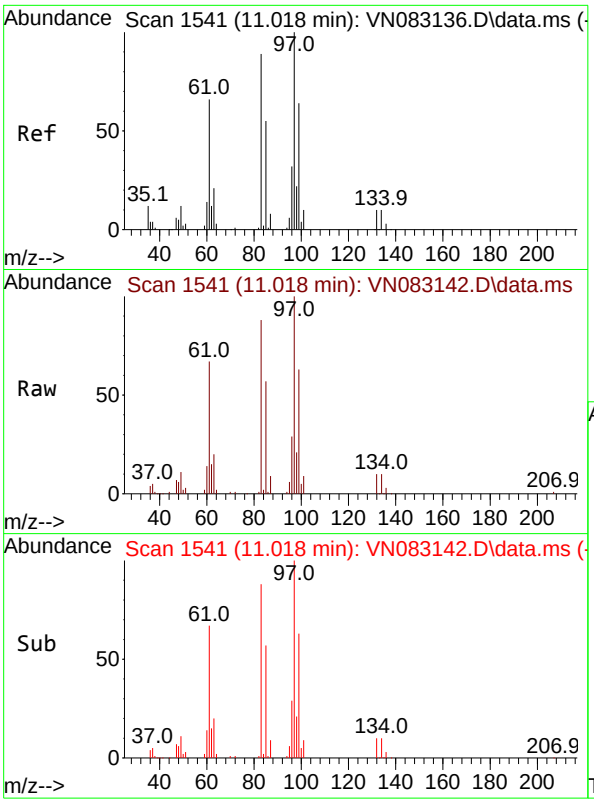


#54
cis-1,3-Dichloropropene
Concen: 48.487 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 216020

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.3	36.5
39	56.0	50.5	75.7

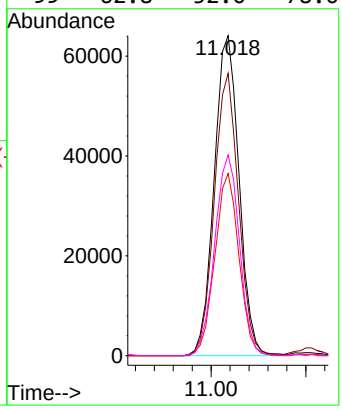




#55
1,1,2-Trichloroethane
Concen: 48.351 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 97 Resp: 11702

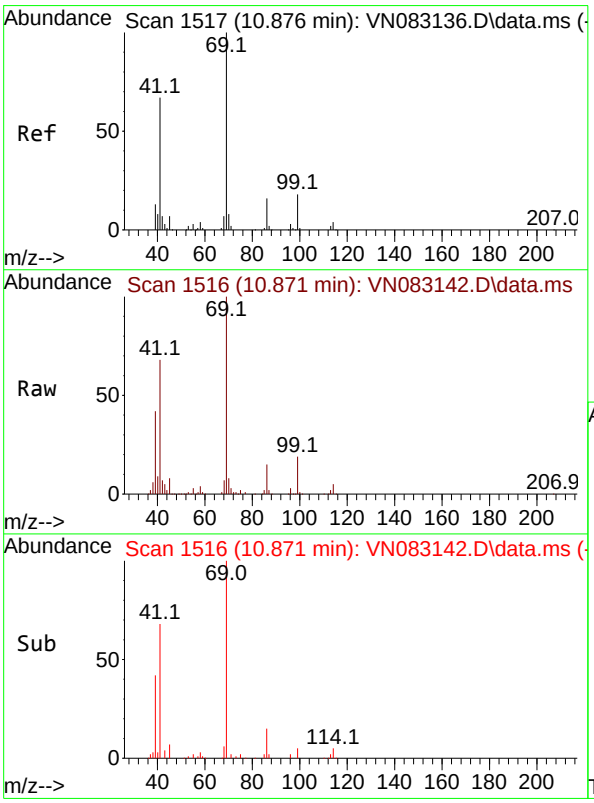
Ion	Ratio	Lower	Upper
97	100		
83	88.2	71.4	107.0
85	57.0	45.8	68.6
99	62.8	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

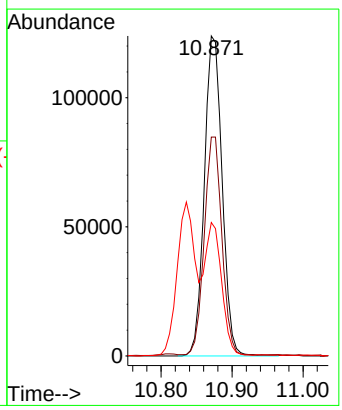
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

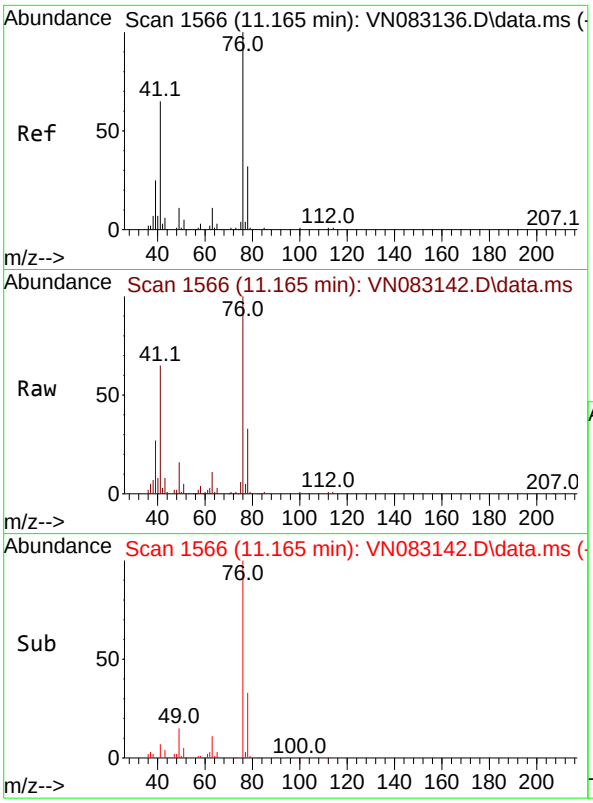


#56
Ethyl methacrylate
Concen: 47.395 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 69 Resp: 216248

Ion	Ratio	Lower	Upper
69	100		
41	67.3	63.4	95.2
39	40.2	37.4	56.0

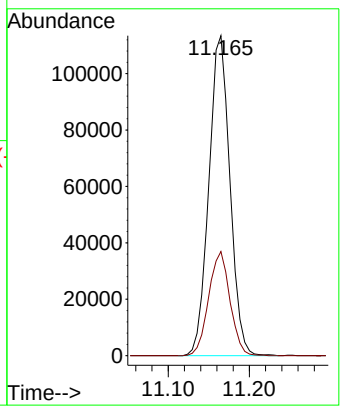




#57
1,3-Dichloropropane
Concen: 47.391 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 76 Resp: 20444

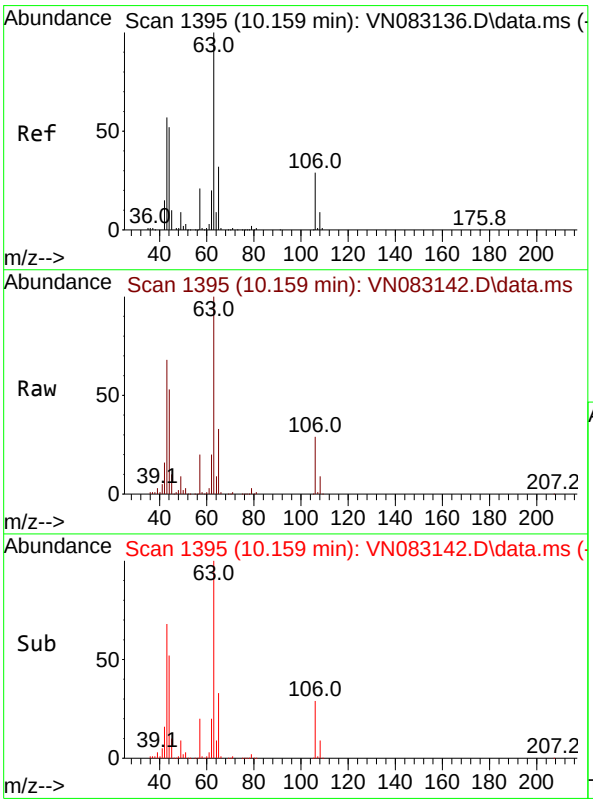
Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

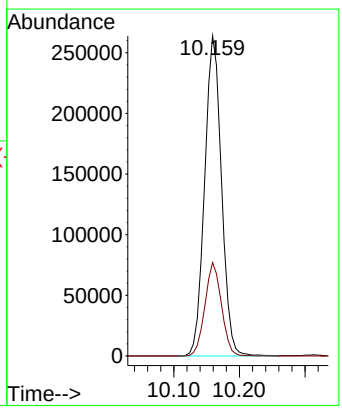
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

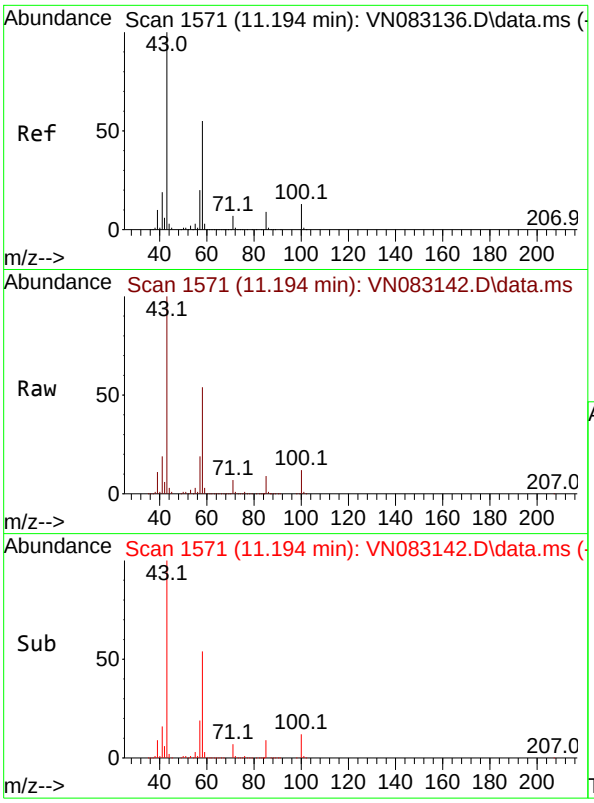


#58
2-Chloroethyl Vinyl ether
Concen: 244.918 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 63 Resp: 472357

Ion	Ratio	Lower	Upper
63	100		
106	28.6	21.4	32.0





#59
2-Hexanone
Concen: 224.916 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

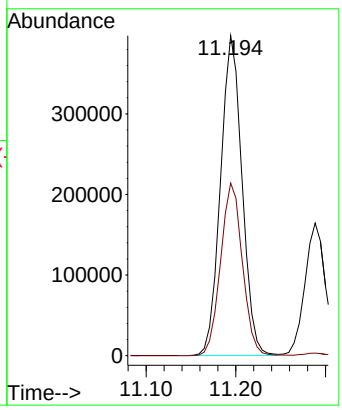
Tgt Ion: 43 Resp: 66103

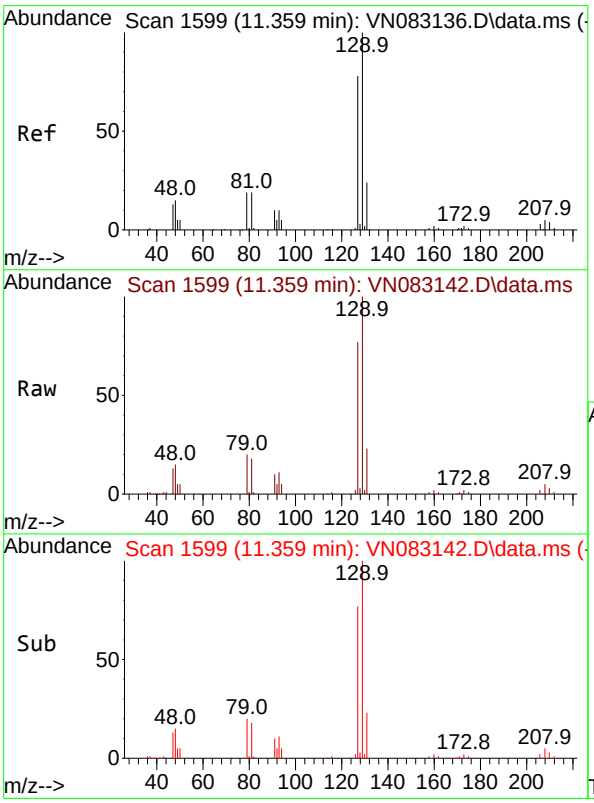
Ion	Ratio	Lower	Upper
43	100		
58	54.6	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

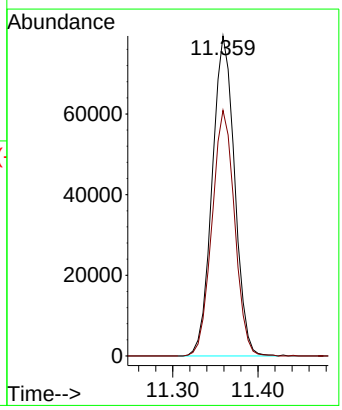


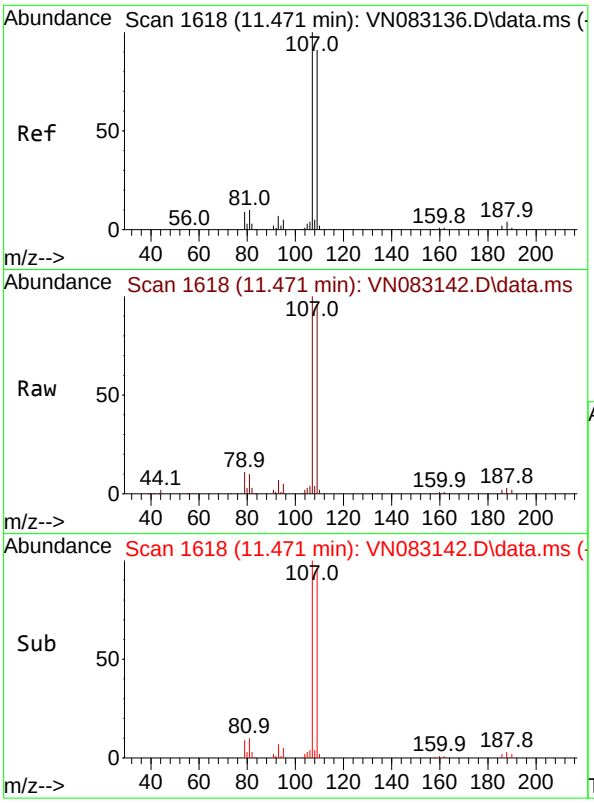


#60
Dibromochloromethane
Concen: 49.513 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:129 Resp: 144886

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.2	117.6

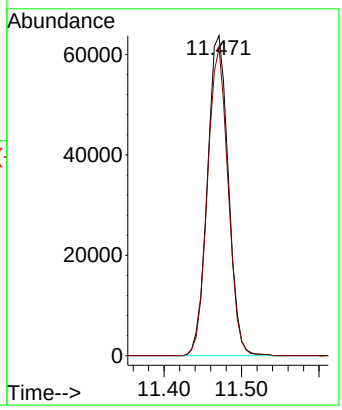




#61
1,2-Dibromoethane
Concen: 47.133 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:107 Resp: 11983

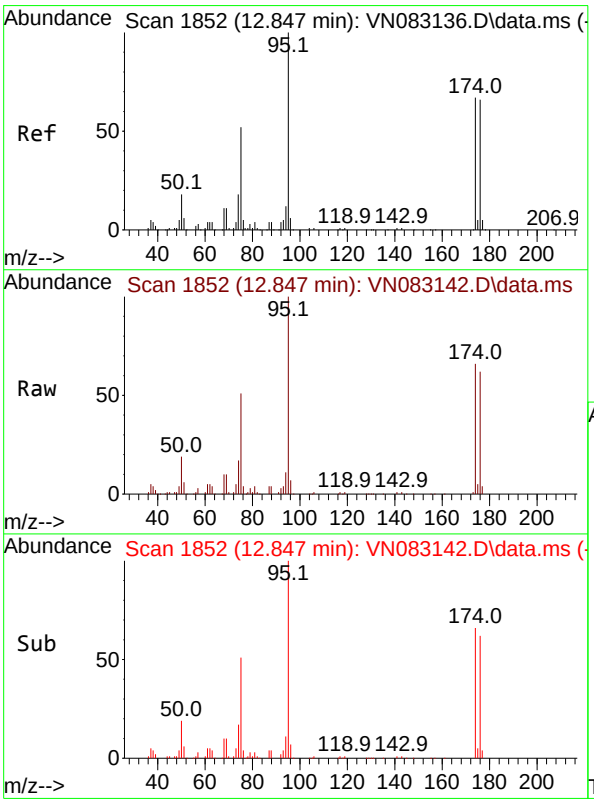
Ion	Ratio	Lower	Upper
107	100		
109	94.5	73.7	110.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

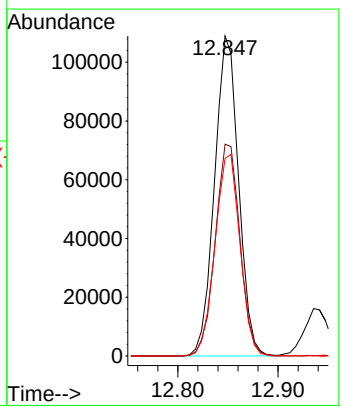
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

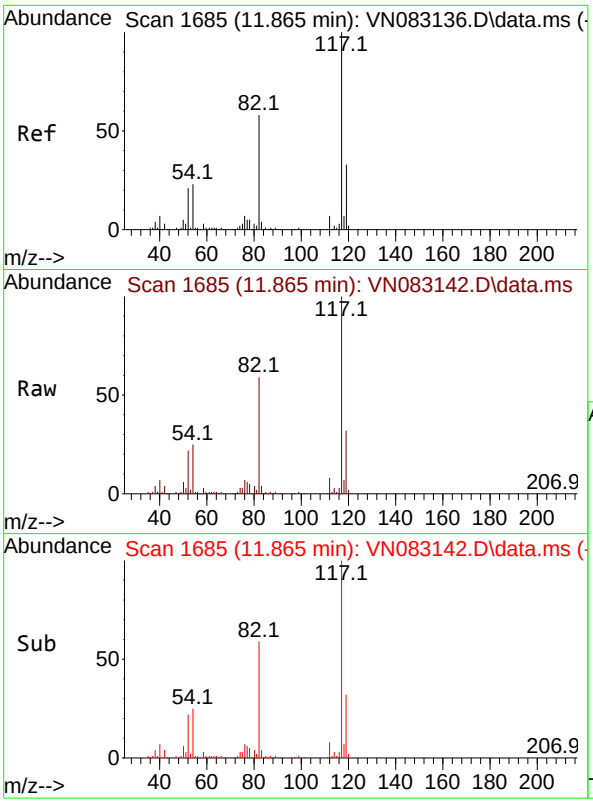


#62
4-Bromofluorobenzene
Concen: 52.574 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 95 Resp: 181344

Ion	Ratio	Lower	Upper
95	100		
174	68.0	0.0	159.2
176	65.5	0.0	147.6

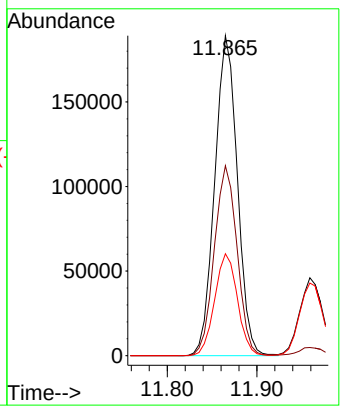




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:117 Resp: 33095

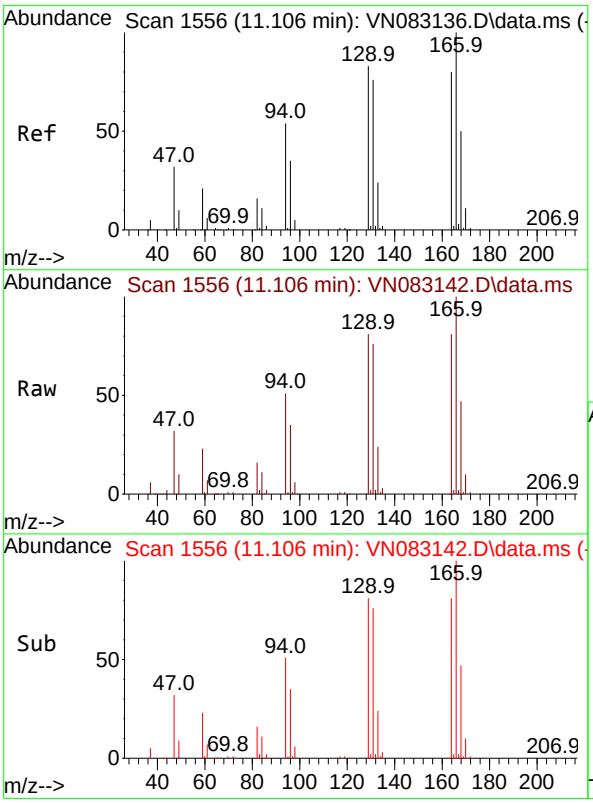
Ion	Ratio	Lower	Upper
117	100		
82	59.4	47.5	71.3
119	31.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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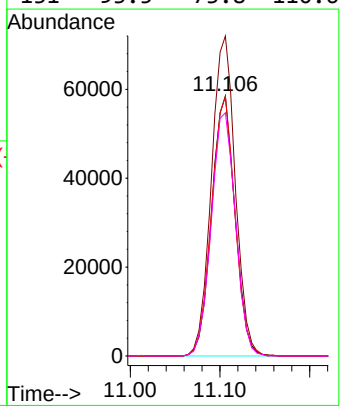
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

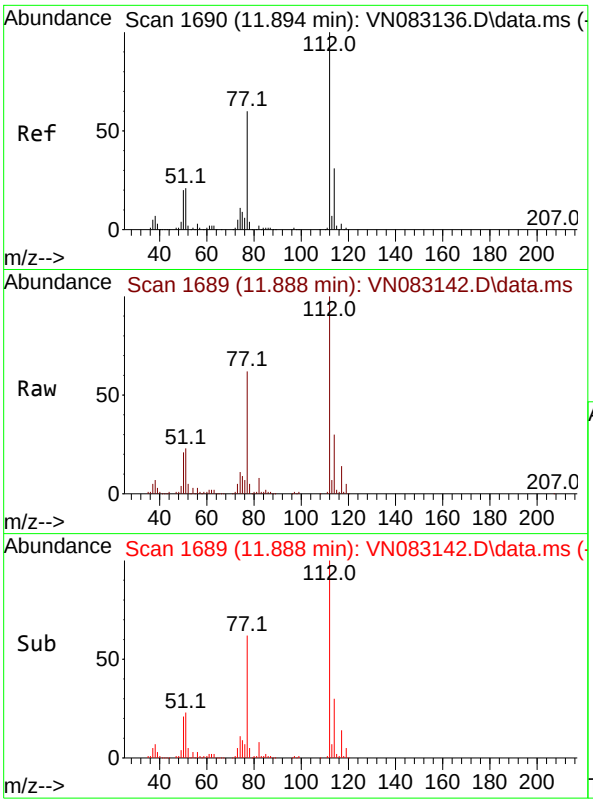


#64
Tetrachloroethene
Concen: 48.175 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:164 Resp: 105591

Ion	Ratio	Lower	Upper
164	100		
166	123.0	101.4	152.0
129	99.7	75.7	113.5
131	93.5	73.8	110.6





#65
Chlorobenzene
Concen: 47.522 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

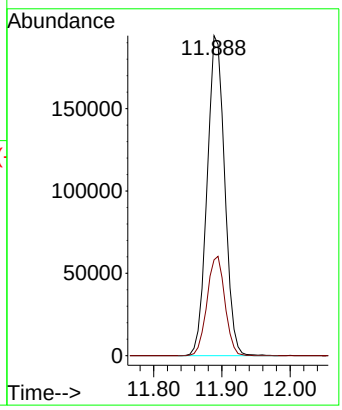
Tgt Ion:112 Resp: 34756

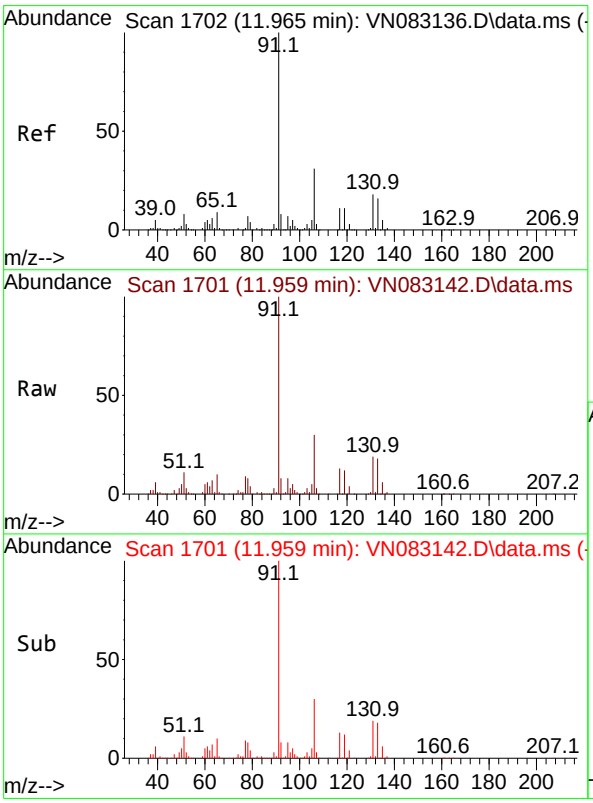
Ion	Ratio	Lower	Upper
112	100		
114	29.9	26.2	39.2

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

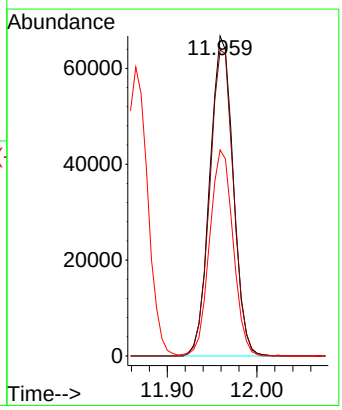


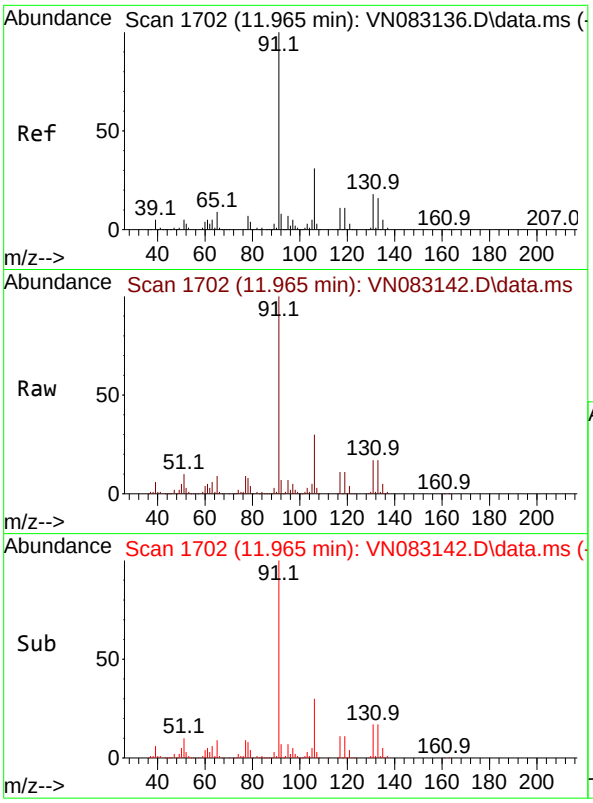


#66
1,1,1,2-Tetrachloroethane
Concen: 46.843 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:131 Resp: 120826

Ion	Ratio	Lower	Upper
131	100		
133	97.1	47.3	142.0
119	64.8	32.5	97.4





#67
Ethyl Benzene
Concen: 47.764 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

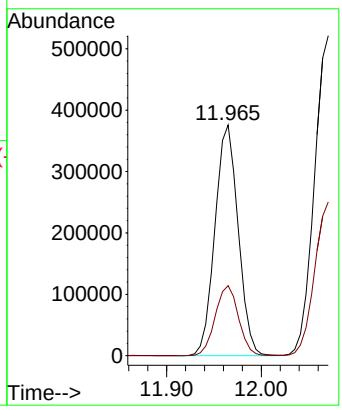
Tgt Ion: 91 Resp: 64082

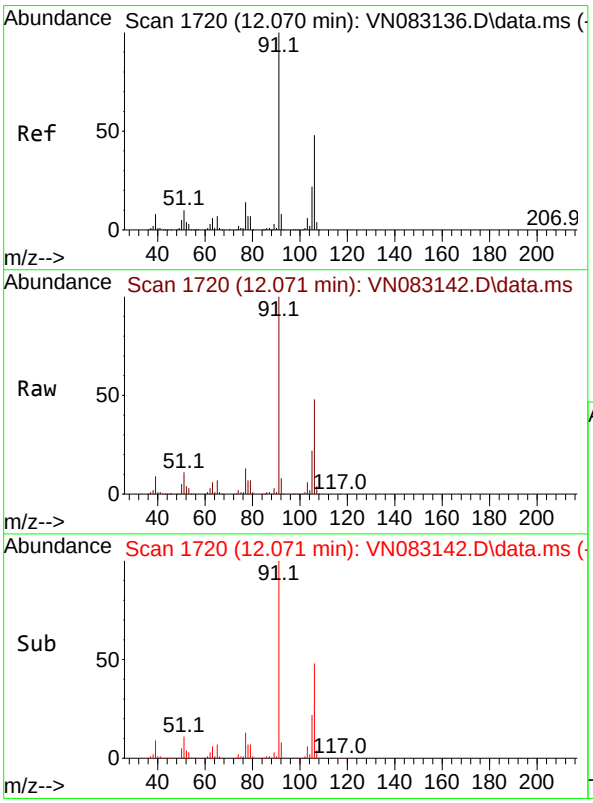
Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

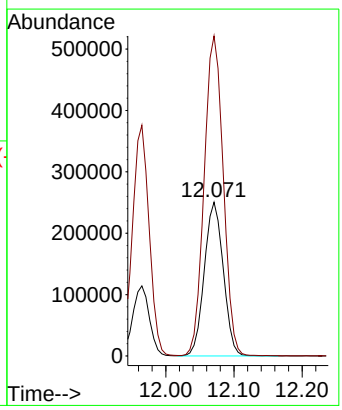


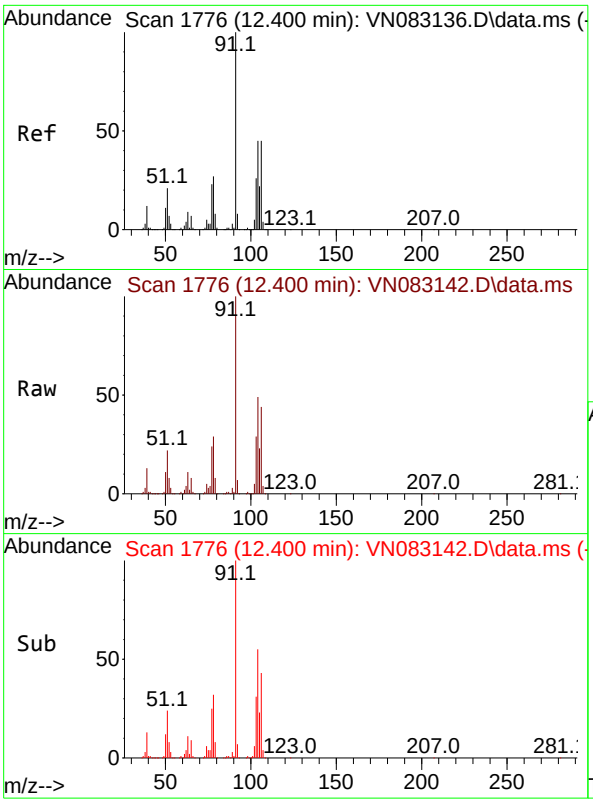


#68
m/p-Xylenes
Concen: 96.434 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:106 Resp: 484653

Ion	Ratio	Lower	Upper
106	100		
91	210.2	166.1	249.1





#69
o-Xylene
Concen: 46.662 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

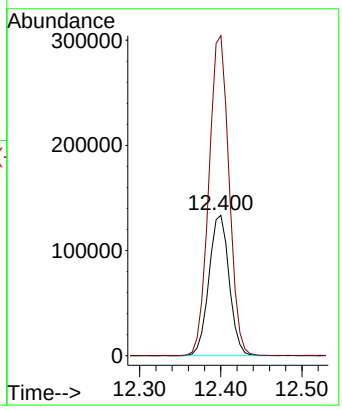
Tgt Ion:106 Resp: 23129

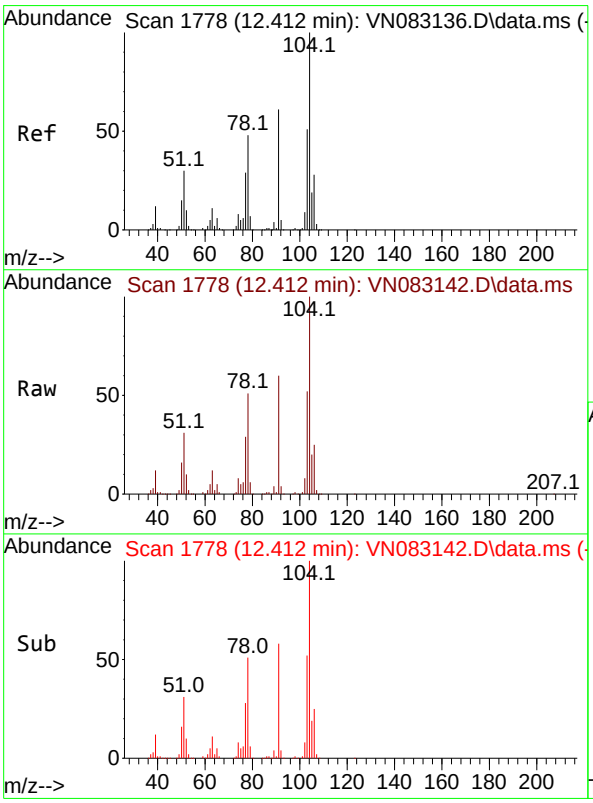
Ion	Ratio	Lower	Upper
106	100		
91	227.0	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

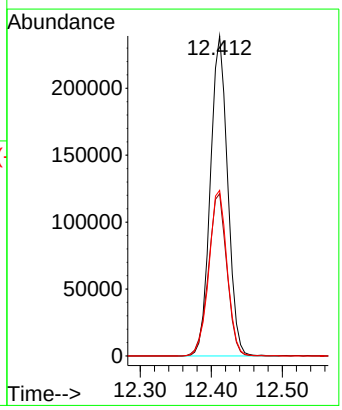


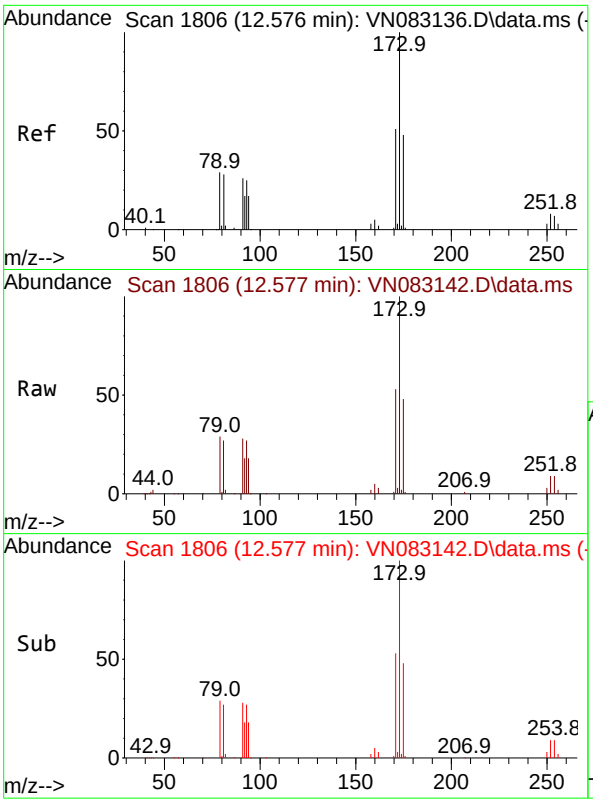


#70
Styrene
Concen: 48.487 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:104 Resp: 403657

Ion	Ratio	Lower	Upper
104	100		
78	53.9	41.6	62.4
103	54.6	44.0	66.0

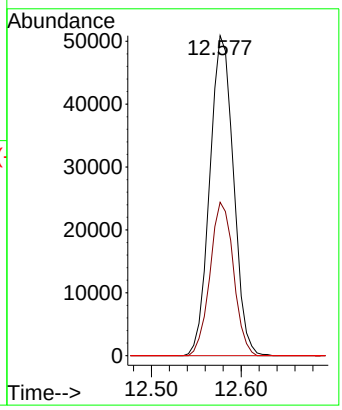




#71
Bromoform
Concen: 47.797 ug/l
RT: 12.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:173 Resp: 9339

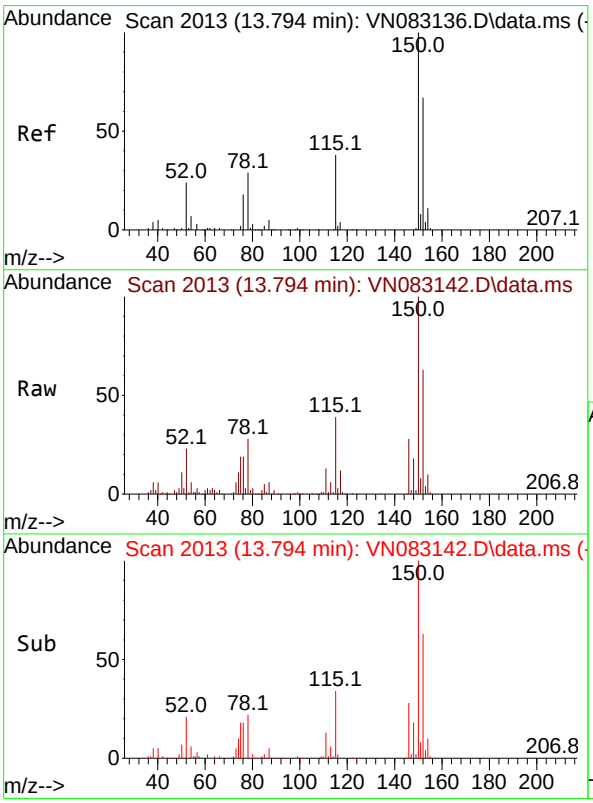
Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

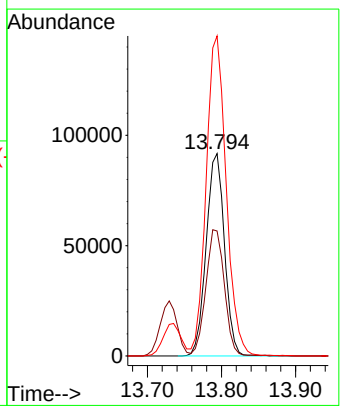
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

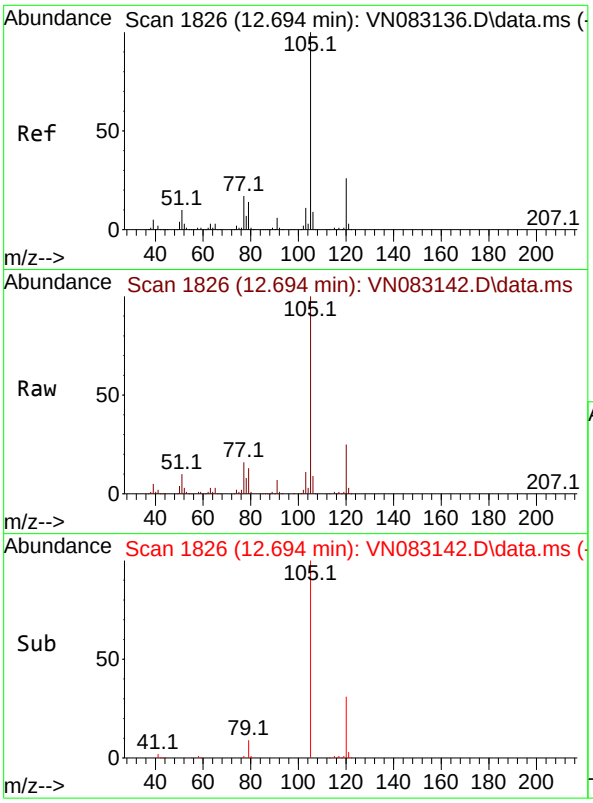


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:152 Resp: 157193

Ion	Ratio	Lower	Upper
152	100		
115	63.3	30.6	91.6
150	172.2	0.0	348.6

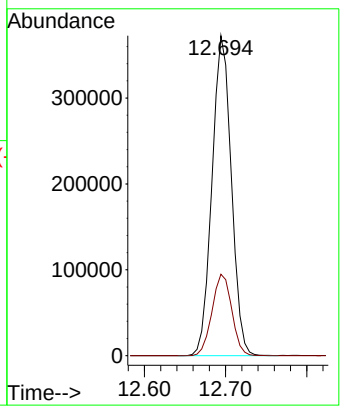




#73
Isopropylbenzene
Concen: 46.893 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:105 Resp: 61654

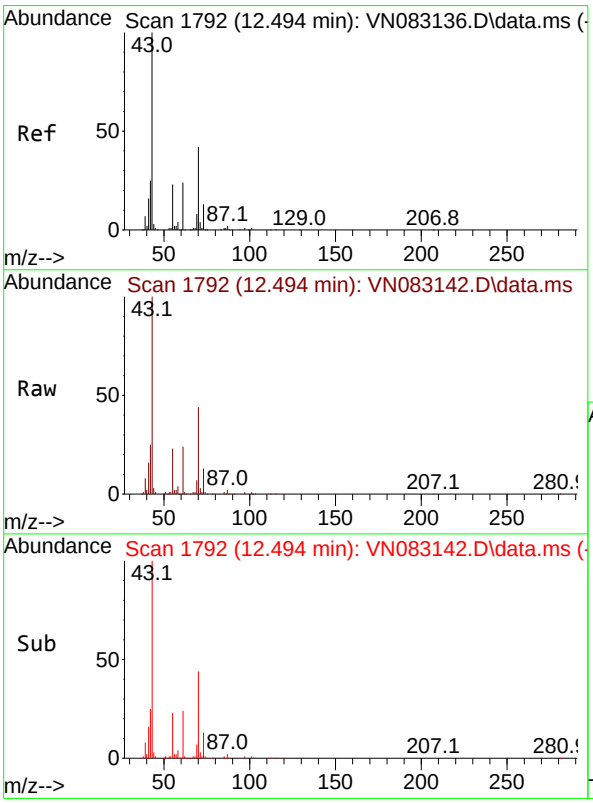
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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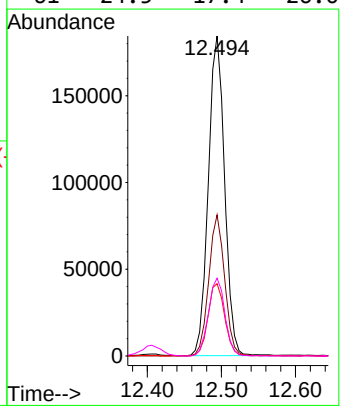
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

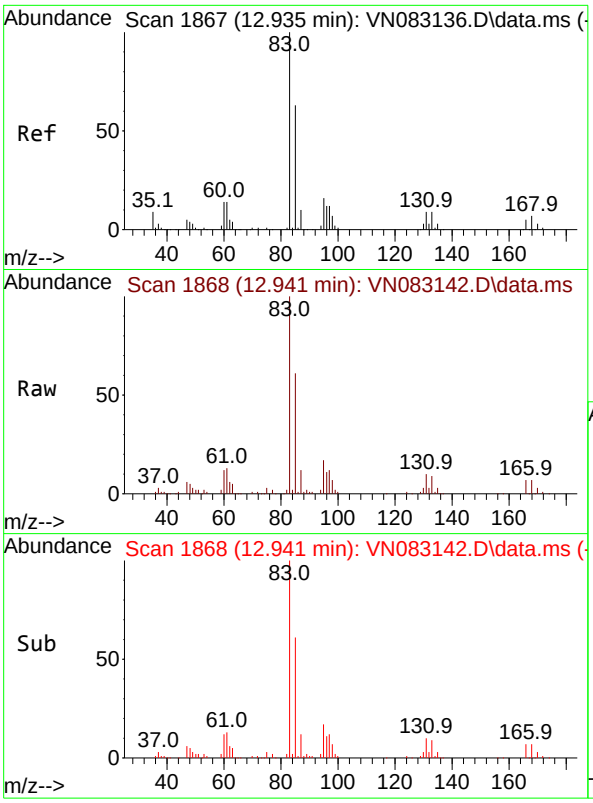


#74
N-amyl acetate
Concen: 43.748 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 281352

Ion	Ratio	Lower	Upper
43	100		
70	43.1	29.8	44.6
55	23.3	18.7	28.1
61	24.5	17.4	26.0

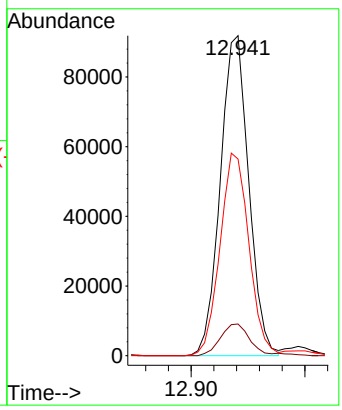




#75
1,1,2,2-Tetrachloroethane
Concen: 43.016 ug/l
RT: 12.941 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 83 Resp: 15996

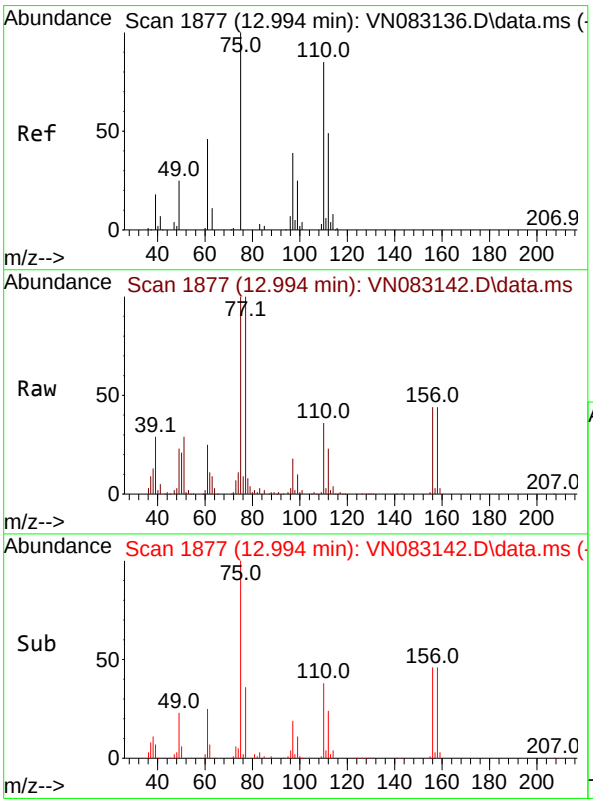
Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.0	14.9
85	64.5	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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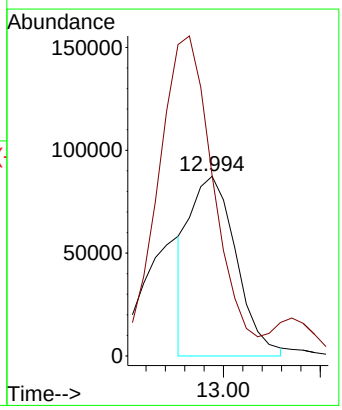
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

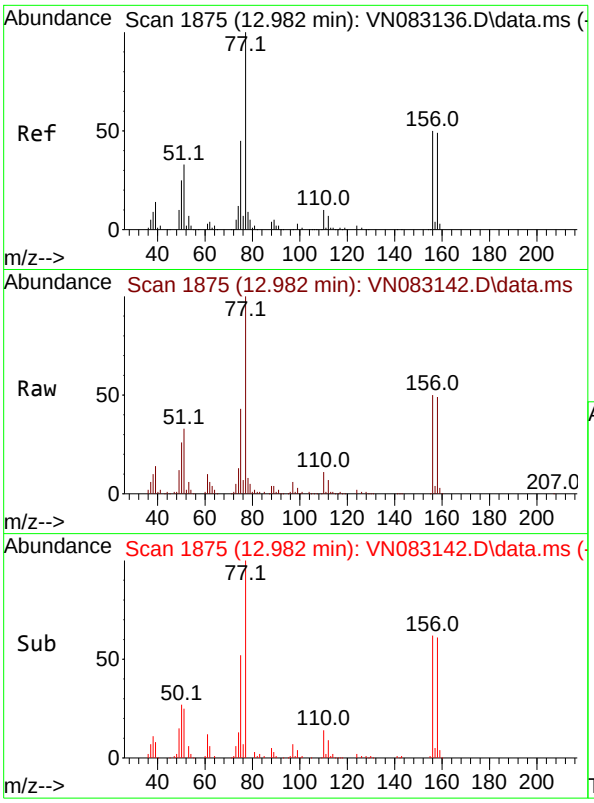


#76
1,2,3-Trichloropropane
Concen: 42.119 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 145309

Ion	Ratio	Lower	Upper
75	100		
77	214.8	110.9	332.6





#77
Bromobenzene
Concen: 46.649 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

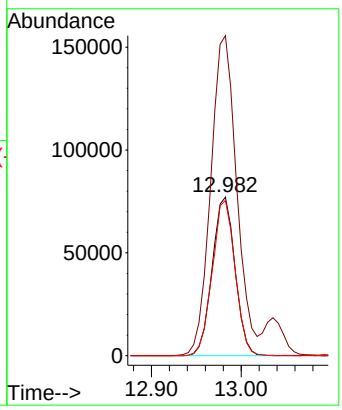
Tgt Ion:156 Resp: 13624

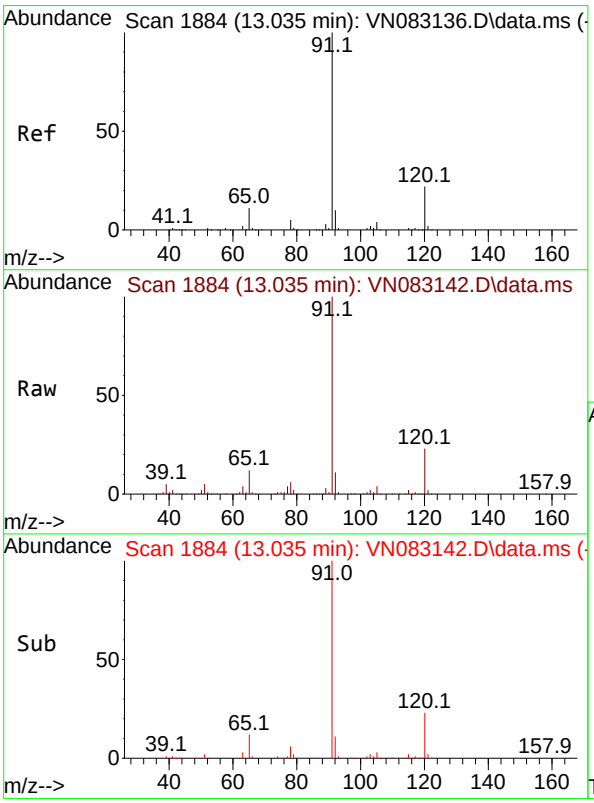
Ion	Ratio	Lower	Upper
156	100		
77	229.1	111.3	333.8
158	98.0	48.3	144.9

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
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Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

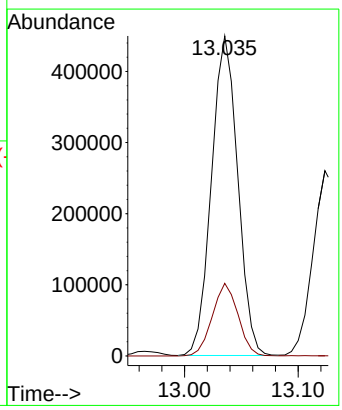


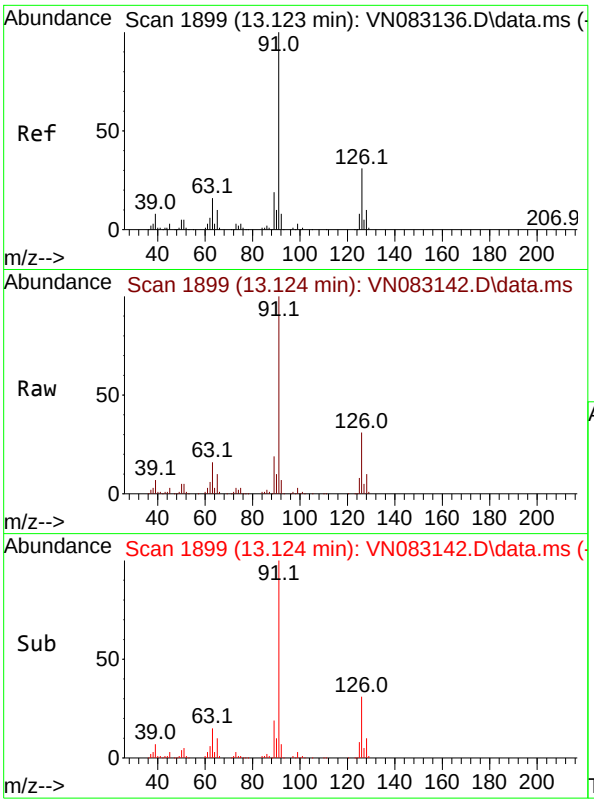


#78
n-propylbenzene
Concen: 47.678 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 91 Resp: 721825

Ion	Ratio	Lower	Upper
91	100		
120	22.2	10.9	32.9

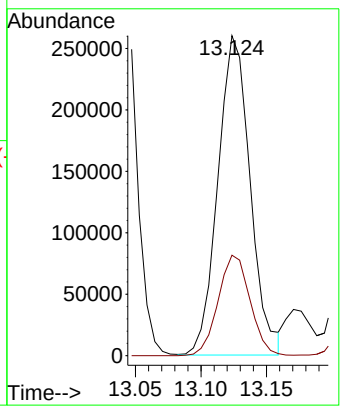




#79
2-Chlorotoluene
Concen: 46.398 ug/l
RT: 13.124 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 91 Resp: 44535

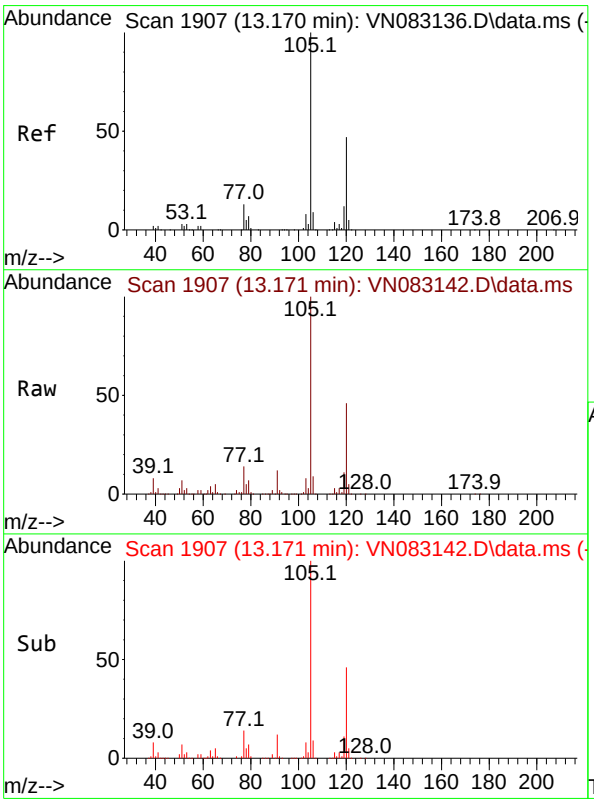
Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

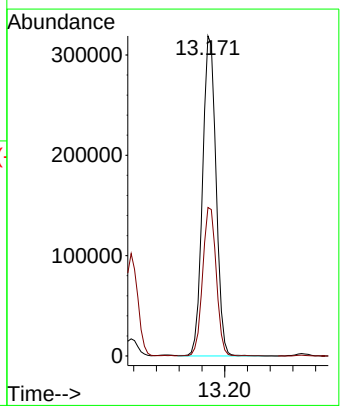
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

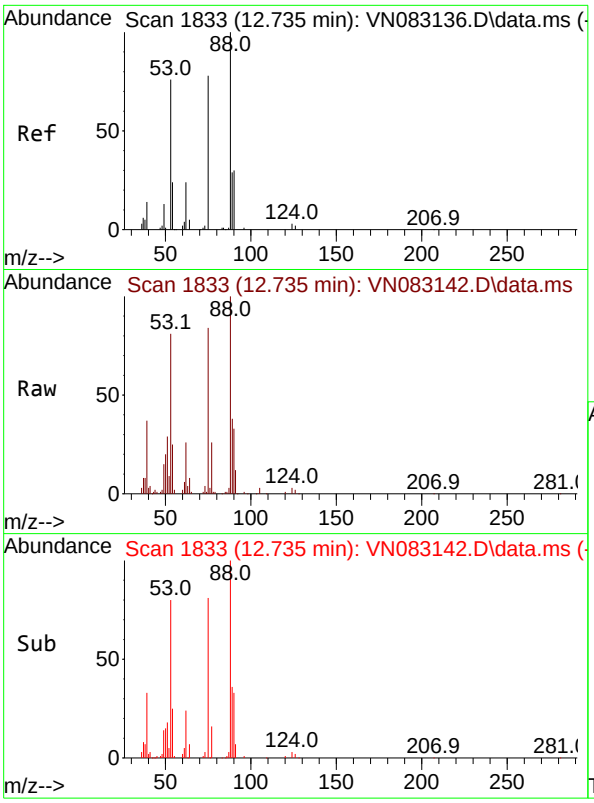


#80
1,3,5-Trimethylbenzene
Concen: 47.673 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:105 Resp: 524769

Ion	Ratio	Lower	Upper
105	100		
120	46.9	24.3	72.8

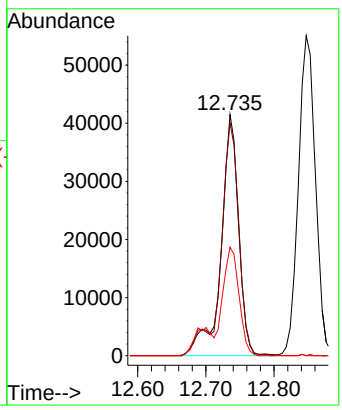




#81
trans-1,4-Dichloro-2-butene
Concen: 47.070 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 7465

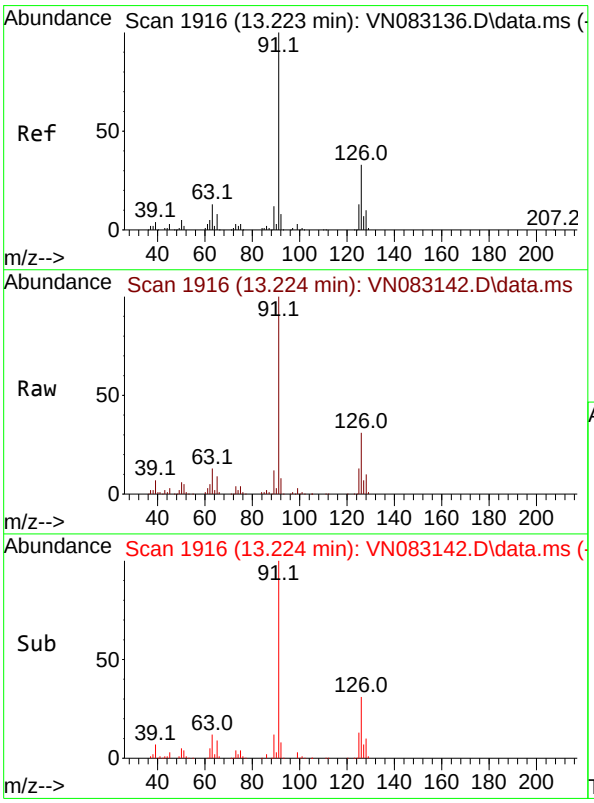
Ion	Ratio	Lower	Upper
75	100		
53	89.6	88.4	132.6
89	41.1	36.3	54.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

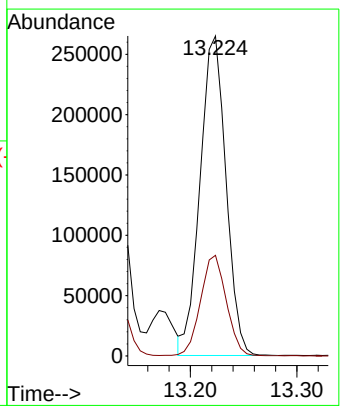
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

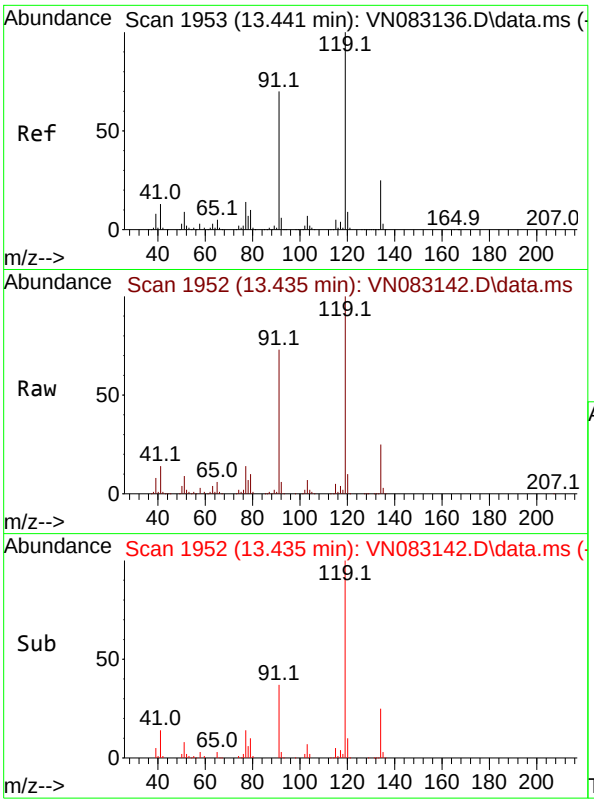


#82
4-Chlorotoluene
Concen: 46.512 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 91 Resp: 447810

Ion	Ratio	Lower	Upper
91	100		
126	31.2	16.2	48.6

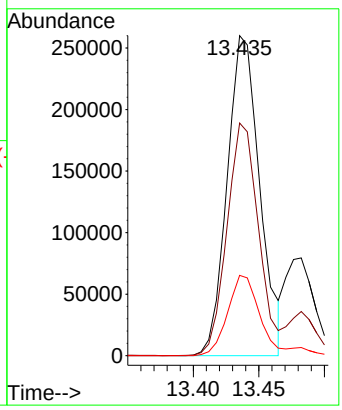




#83
tert-Butylbenzene
Concen: 46.173 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:119 Resp: 45010

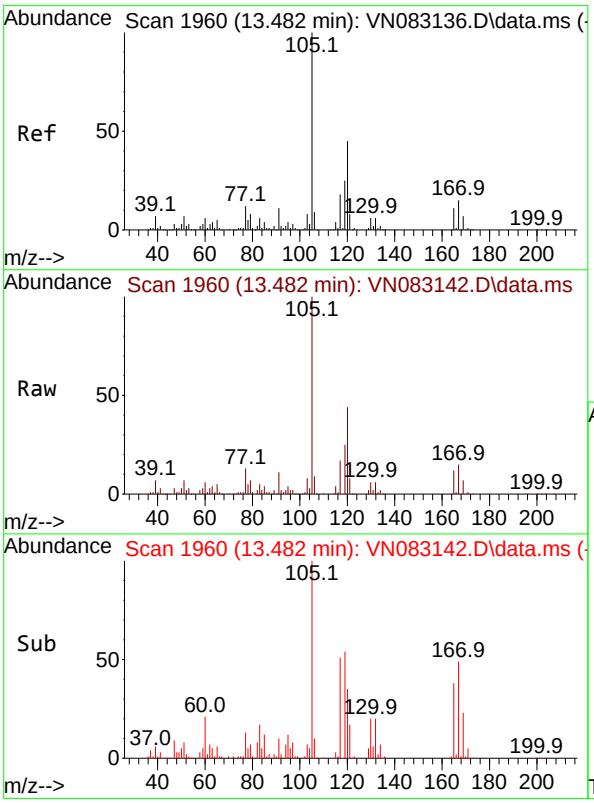
Ion	Ratio	Lower	Upper
119	100		
91	70.4	35.0	105.1
134	24.4	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

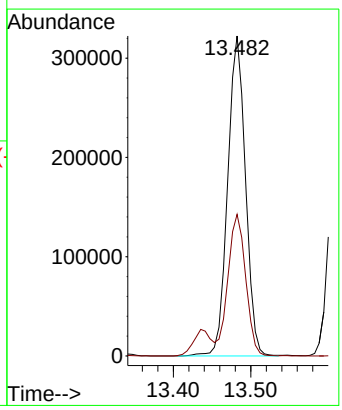
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

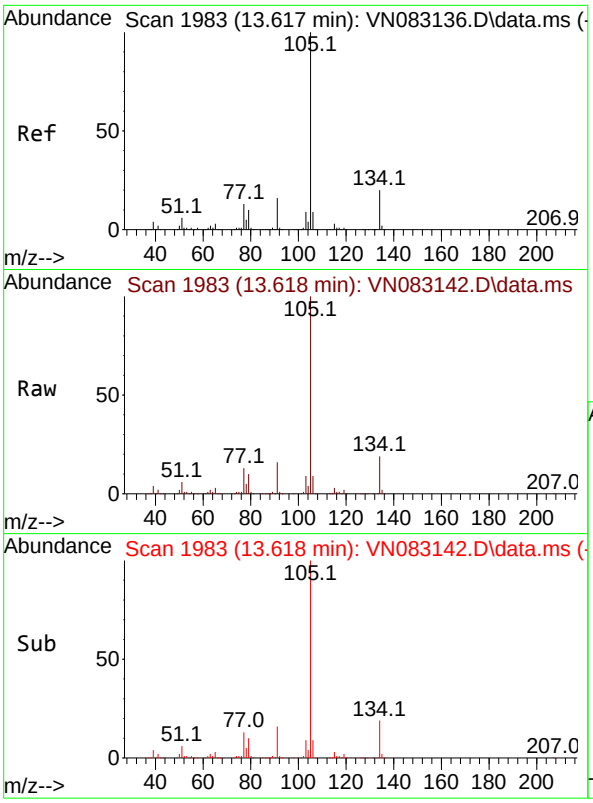


#84
1,2,4-Trimethylbenzene
Concen: 46.493 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:105 Resp: 515759

Ion	Ratio	Lower	Upper
105	100		
120	44.4	21.9	65.8

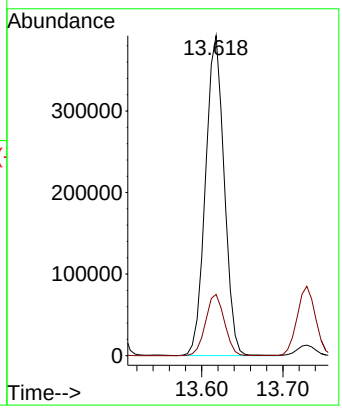




#85
sec-Butylbenzene
Concen: 47.018 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:105 Resp: 62540

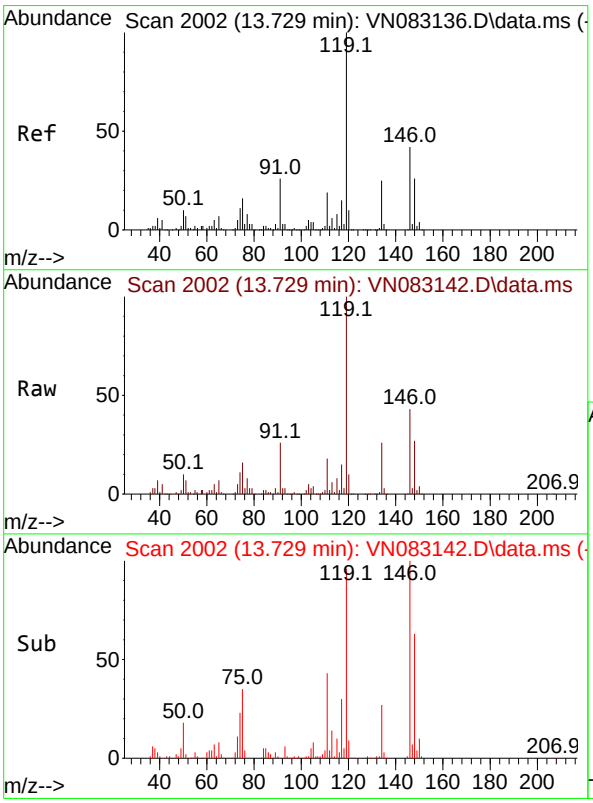
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

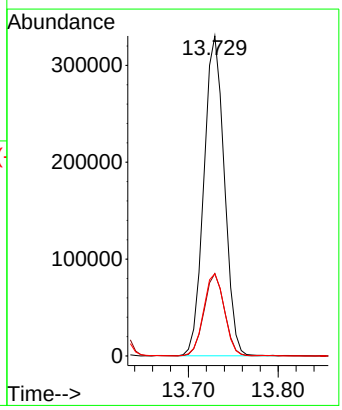
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

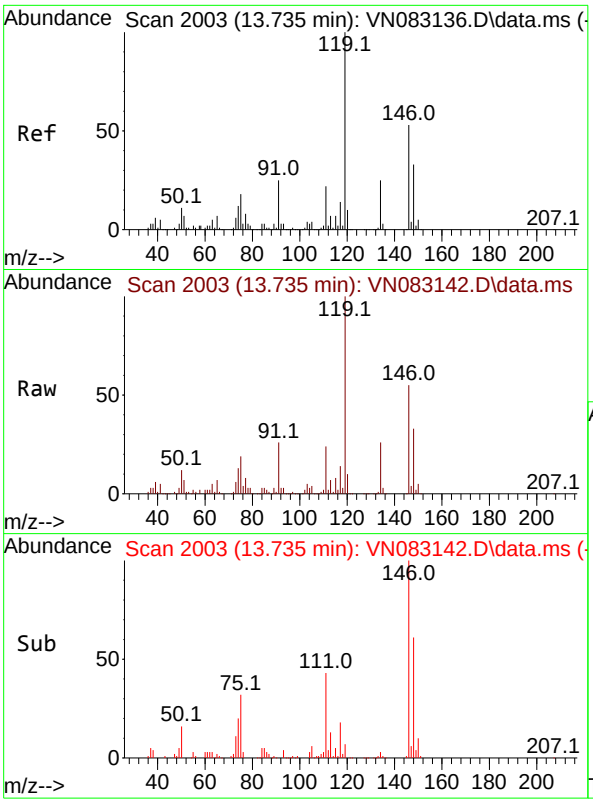


#86
p-Isopropyltoluene
Concen: 47.566 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:119 Resp: 522411

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.0	39.0
91	25.9	12.3	36.9

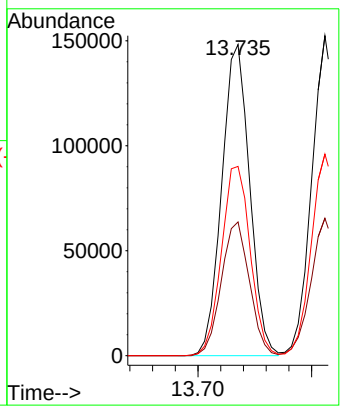




#87
1,3-Dichlorobenzene
Concen: 45.959 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:146 Resp: 25257

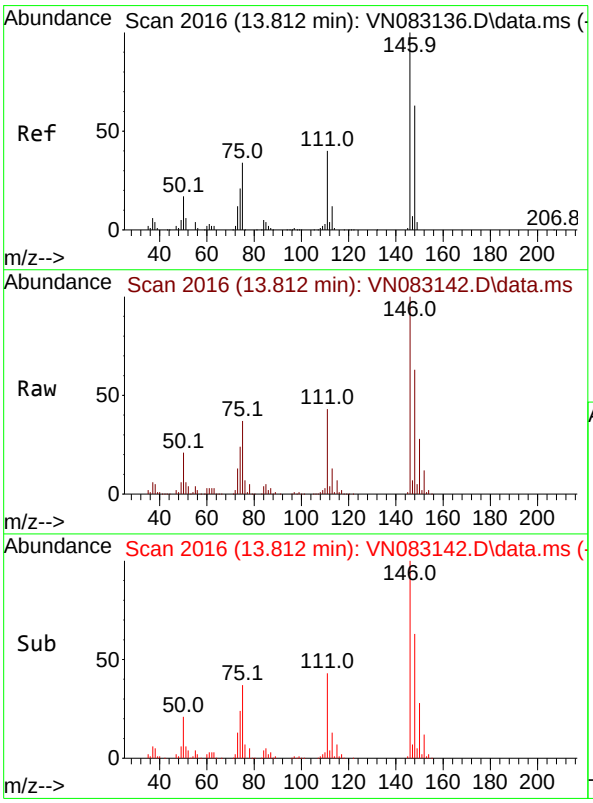
Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.6	61.9
148	62.8	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

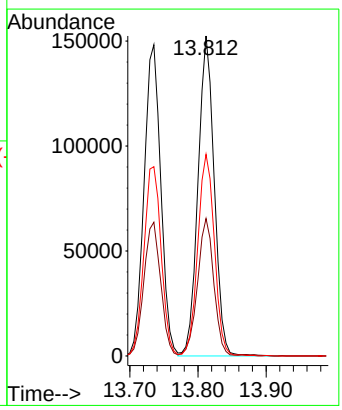
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

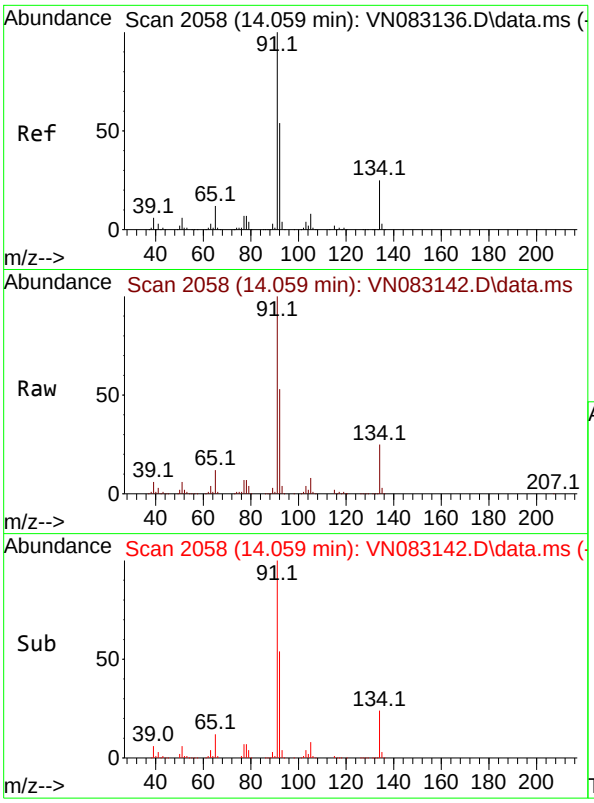


#88
1,4-Dichlorobenzene
Concen: 45.499 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:146 Resp: 252088

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.1	60.3
148	64.5	32.2	96.6

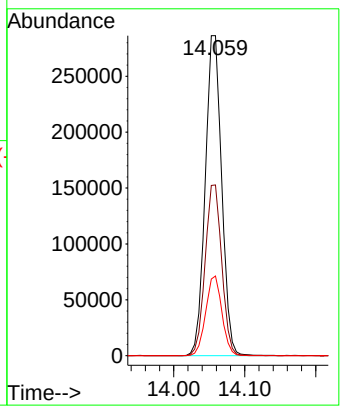




#89
n-Butylbenzene
Concen: 48.489 ug/l
RT: 14.059 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 91 Resp: 46144

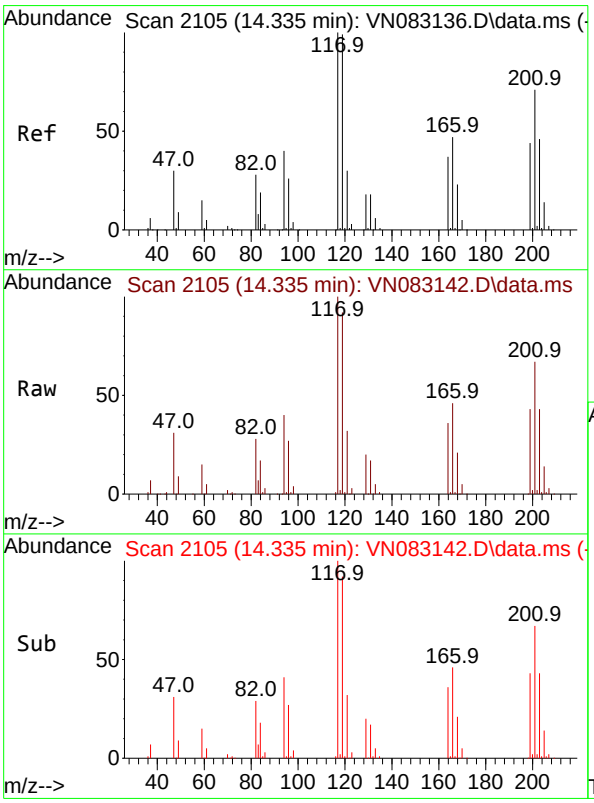
Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.1	78.3
134	24.5	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

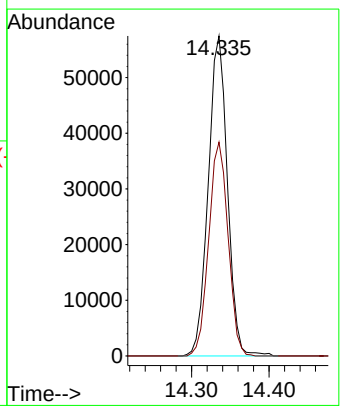
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

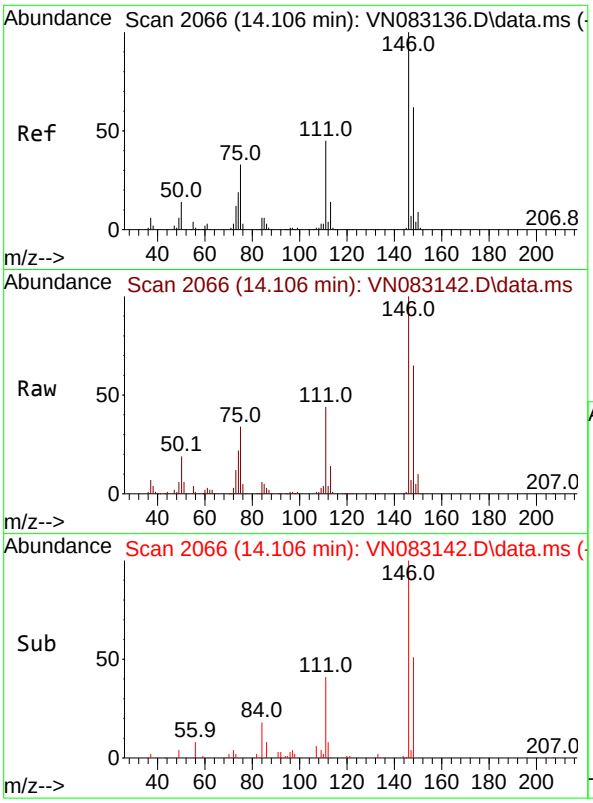


#90
Hexachloroethane
Concen: 46.741 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:117 Resp: 99176

Ion	Ratio	Lower	Upper
117	100		
201	67.3	35.8	107.3

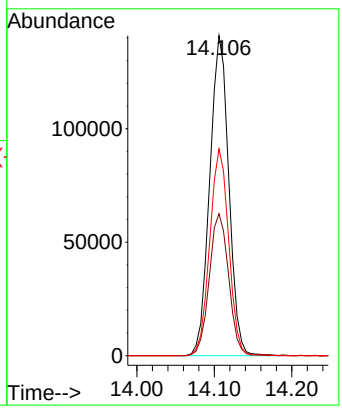




#91
1,2-Dichlorobenzene
Concen: 45.255 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:146 Resp: 24067

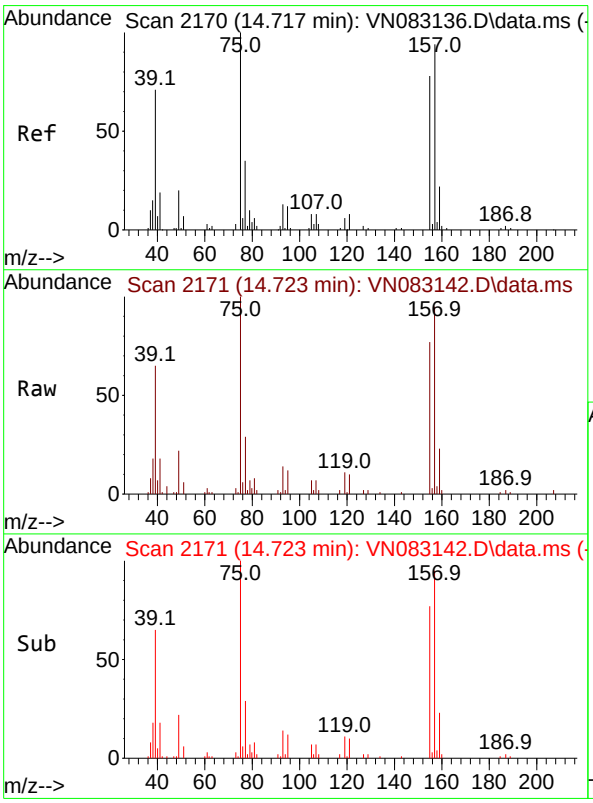
Ion	Ratio	Lower	Upper
146	100		
111	45.2	21.4	64.2
148	64.4	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

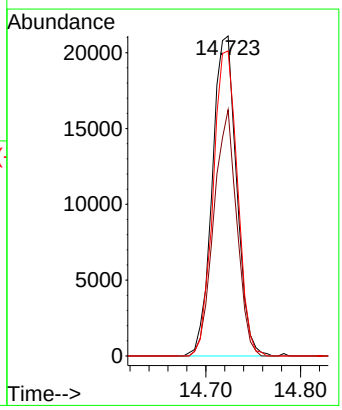
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

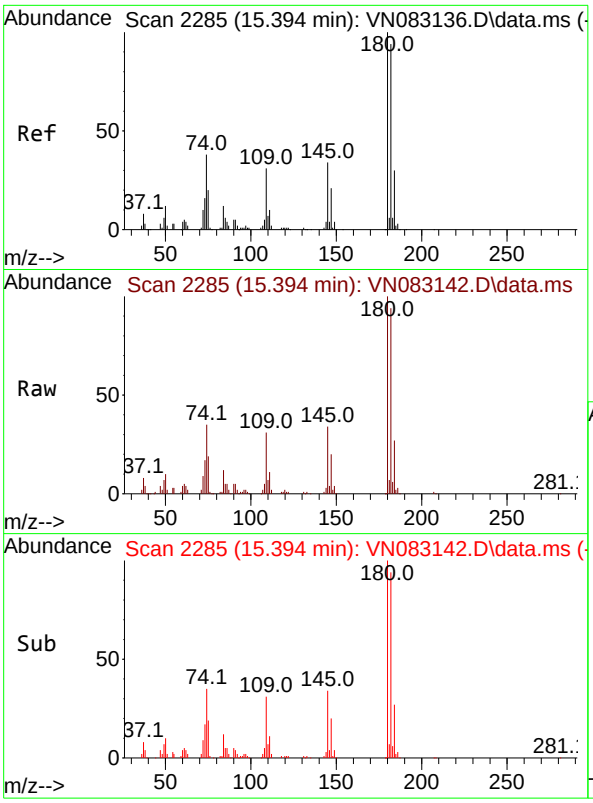


#92
1,2-Dibromo-3-Chloropropane
Concen: 41.753 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 37677

Ion	Ratio	Lower	Upper
75	100		
155	72.8	36.6	109.8
157	95.3	46.9	140.6

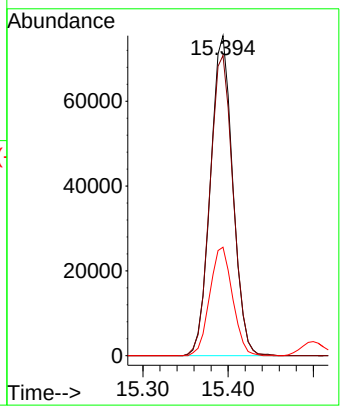




#93
1,2,4-Trichlorobenzene
Concen: 46.054 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:180 Resp: 13721

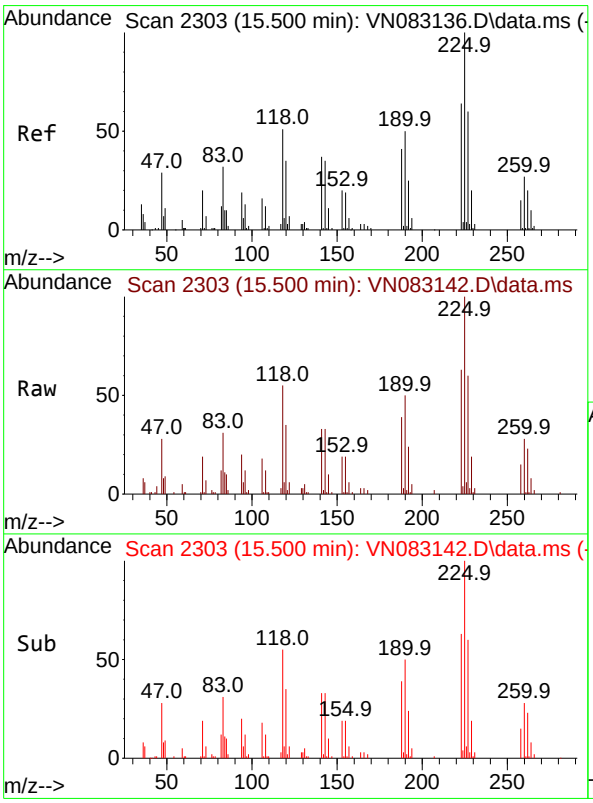
Ion	Ratio	Lower	Upper
180	100		
182	97.2	47.3	141.8
145	34.6	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

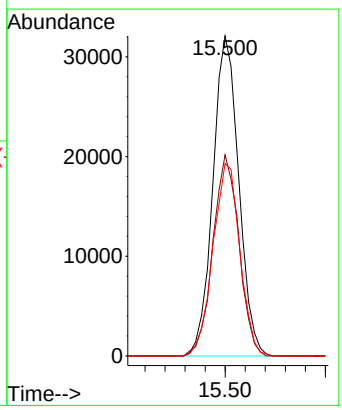
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

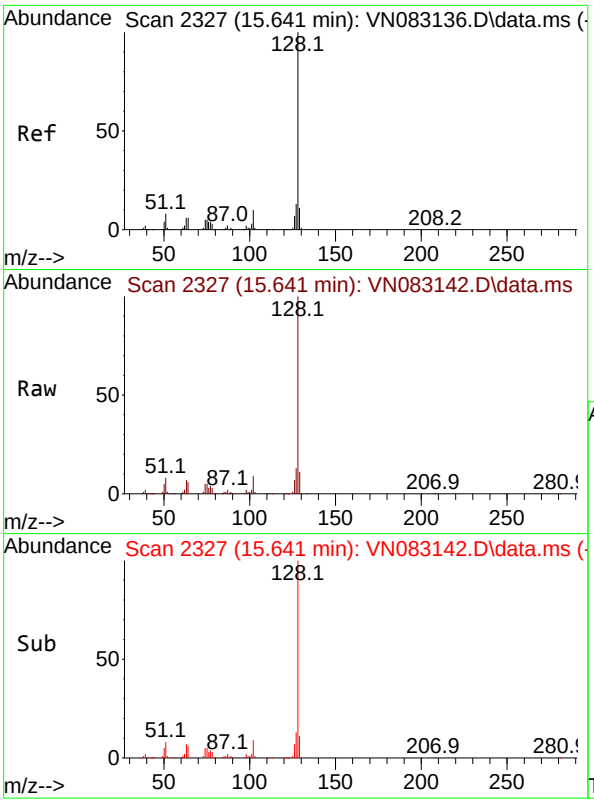


#94
Hexachlorobutadiene
Concen: 43.315 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:225 Resp: 57394

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.9	95.7
227	62.6	32.5	97.5

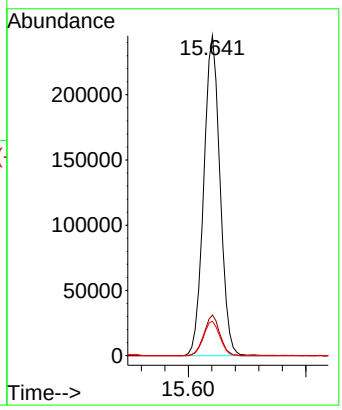




#95
Naphthalene
Concen: 44.692 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:128 Resp: 47167

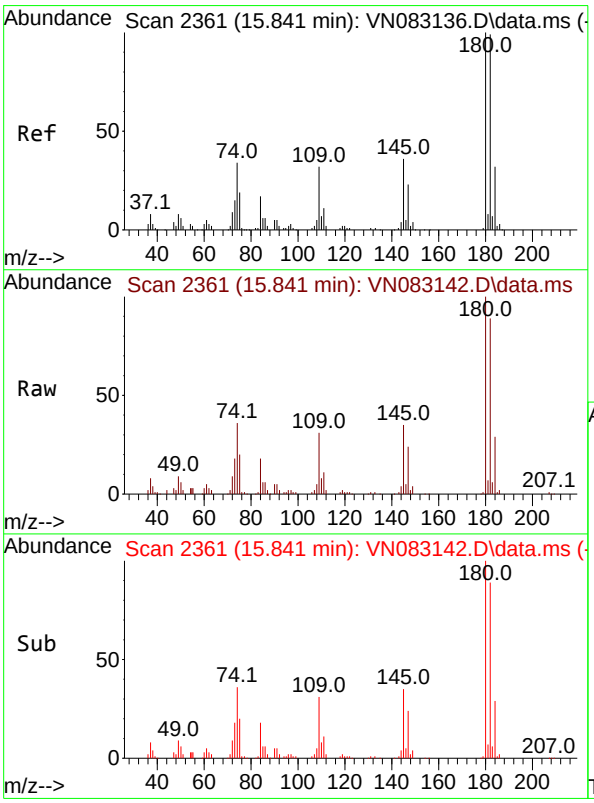
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.6	16.0
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

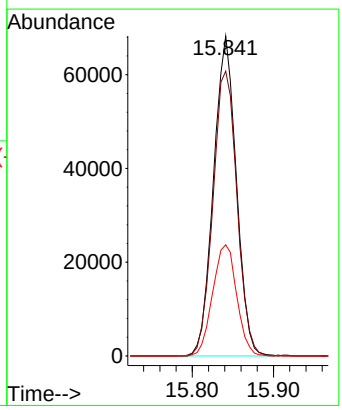
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 45.221 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:180 Resp: 133315

Ion	Ratio	Lower	Upper
180	100		
182	93.7	48.9	146.8
145	36.6	16.8	50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	0.567	0.534	5.8	102	0.00
3	P	Chloromethane	0.581	0.537	7.6	99	0.00
4	C	Vinyl Chloride	0.592	0.544	8.1#	99	0.00
5	T	Bromomethane	0.368	0.316	14.1	97	0.00
6	T	Chloroethane	0.371	0.324	12.7	99	0.00
7	T	Trichlorofluoromethane	0.979	0.922	5.8	101	0.00
8	T	Diethyl Ether	0.364	0.337	7.4	100	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.539	0.509	5.6	101	0.00
10	T	Methyl Iodide	0.710	0.672	5.4	99	0.00
11	T	Tert butyl alcohol	0.148	0.123	16.9	92	0.00
12	CM	1,1-Dichloroethene	0.554	0.505	8.8#	101	0.00
13	T	Acrolein	0.096	0.084	12.5	90	0.00
14	T	Allyl chloride	1.047	0.862	17.7	101	0.00
15	T	Acrylonitrile	0.304	0.265	12.8	95	0.00
16	T	Acetone	0.278	0.235	15.5	90	0.00
17	T	Carbon Disulfide	1.622	1.417	12.6	99	0.00
18	T	Methyl Acetate	0.830	0.704	15.2	99	0.00
19	T	Methyl tert-butyl Ether	2.001	1.872	6.4	101	0.00
20	T	Methylene Chloride	0.641	0.559	12.8	102	0.00
21	T	trans-1,2-Dichloroethene	0.573	0.523	8.7	99	-0.01
22	T	Diisopropyl ether	1.969	1.846	6.2	100	0.00
23	T	Vinyl Acetate	2.018	1.900	5.8	99	0.00
24	P	1,1-Dichloroethane	1.073	1.002	6.6	101	0.00
25	T	2-Butanone	0.428	0.362	15.4	93	0.00
26	T	2,2-Dichloropropane	0.997	0.954	4.3	102	0.00
27	T	cis-1,2-Dichloroethene	0.691	0.638	7.7	101	0.00
28	T	Bromochloromethane	0.439	0.403	8.2	100	0.00
29	T	Tetrahydrofuran	0.276	0.246	10.9	96	0.00
30	C	Chloroform	1.115	1.057	5.2#	101	0.00
31	T	Cyclohexane	1.055	0.917	13.1	102	0.00
32	T	1,1,1-Trichloroethane	1.055	0.995	5.7	101	0.00
33	S	1,2-Dichloroethane-d4	0.712	0.720	-1.1	105	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00
35	S	Dibromofluoromethane	0.312	0.322	-3.2	106	0.00
36	T	1,1-Dichloropropene	0.472	0.451	4.4	103	0.00
37	T	Ethyl Acetate	0.529	0.456	13.8	100	0.00
38	T	Carbon Tetrachloride	0.532	0.509	4.3	102	0.00
39	T	Methylcyclohexane	0.580	0.555	4.3	101	0.00
40	TM	Benzene	1.406	1.340	4.7	101	0.00
41	T	Methacrylonitrile	0.301	0.259	14.0	99	0.00
42	TM	1,2-Dichloroethane	0.512	0.485	5.3	102	0.00
43	T	Isopropyl Acetate	1.211	0.841	30.6#	100	0.00
44	TM	Trichloroethene	0.335	0.321	4.2	102	0.00
45	C	1,2-Dichloropropane	0.334	0.322	3.6#	101	0.00
46	T	Dibromomethane	0.239	0.225	5.9	98	0.00
47	T	Bromodichloromethane	0.537	0.505	6.0	102	0.00
48	T	Methyl methacrylate	0.437	0.390	10.8	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.008	0.007	12.5	93	0.00
50	S	Toluene-d8	1.164	1.215	-4.4	105	0.00
51	T	4-Methyl-2-Pentanone	0.500	0.462	7.6	97	0.00
52	CM	Toluene	0.889	0.862	3.0#	101	0.00
53	T	t-1,3-Dichloropropene	0.551	0.549	0.4	100	0.00
54	T	cis-1,3-Dichloropropene	0.586	0.568	3.1	102	0.00
55	T	1,1,2-Trichloroethane	0.318	0.308	3.1	101	0.00
56	T	Ethyl methacrylate	0.600	0.569	5.2	99	0.00
57	T	1,3-Dichloropropane	0.568	0.538	5.3	99	0.00
58	T	2-Chloroethyl Vinyl ether	0.254	0.249	2.0	104	0.00
59	T	2-Hexanone	0.387	0.348	10.1	96	0.00
60	T	Dibromochloromethane	0.385	0.381	1.0	100	0.00
61	T	1,2-Dibromoethane	0.335	0.315	6.0	99	0.00
62	S	4-Bromofluorobenzene	0.454	0.477	-5.1	106	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00
64	T	Tetrachloroethene	0.331	0.319	3.6	102	0.00
65	PM	Chlorobenzene	1.105	1.050	5.0	100	0.00
66	T	1,1,1,2-Tetrachloroethane	0.390	0.365	6.4	100	0.00
67	C	Ethyl Benzene	2.027	1.936	4.5#	102	0.00
68	T	m/p-Xylenes	0.759	0.732	3.6	102	0.00
69	T	o-Xylene	0.749	0.699	6.7	99	0.00
70	T	Styrene	1.258	1.220	3.0	100	0.00
71	P	Bromoform	0.295	0.282	4.4	97	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
73	T	Isopropylbenzene	4.182	3.922	6.2	101	0.00
74	T	N-amyl acetate	2.046	1.790	12.5	98	0.00
75	P	1,1,2,2-Tetrachloroethane	1.183	1.018	13.9	96	0.00
76	T	1,2,3-Trichloropropane	1.097	0.924	15.8	95	0.00
77	T	Bromobenzene	0.929	0.867	6.7	99	0.00
78	T	n-propylbenzene	4.816	4.592	4.7	101	0.00
79	T	2-Chlorotoluene	3.053	2.833	7.2	101	0.00
80	T	1,3,5-Trimethylbenzene	3.501	3.338	4.7	102	0.00
81	T	trans-1,4-Dichloro-2-butene	0.504	0.475	5.8	105	0.00
82	T	4-Chlorotoluene	3.062	2.849	7.0	101	0.00
83	T	tert-Butylbenzene	3.101	2.863	7.7	99	0.00
84	T	1,2,4-Trimethylbenzene	3.529	3.281	7.0	98	0.00
85	T	sec-Butylbenzene	4.231	3.979	6.0	99	0.00
86	T	p-Isopropyltoluene	3.493	3.323	4.9	99	0.00
87	T	1,3-Dichlorobenzene	1.748	1.607	8.1	99	0.00
88	T	1,4-Dichlorobenzene	1.762	1.604	9.0	99	0.00
89	T	n-Butylbenzene	3.027	2.935	3.0	100	0.00
90	T	Hexachloroethane	0.675	0.631	6.5	100	0.00
91	T	1,2-Dichlorobenzene	1.692	1.531	9.5	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.287	0.240	16.4	93	0.00
93	T	1,2,4-Trichlorobenzene	0.948	0.873	7.9	97	0.00
94	T	Hexachlorobutadiene	0.421	0.365	13.3	98	0.00
95	T	Naphthalene	3.357	3.001	10.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.938	0.848	9.6	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	50.000	47.102	5.8	102	0.00
3	P	Chloromethane	50.000	46.238	7.5	99	0.00
4	C	Vinyl Chloride	50.000	45.937	8.1#	99	0.00
5	T	Bromomethane	50.000	42.984	14.0	97	0.00
6	T	Chloroethane	50.000	43.725	12.5	99	0.00
7	T	Trichlorofluoromethane	50.000	47.124	5.8	101	0.00
8	T	Diethyl Ether	50.000	46.259	7.5	100	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.176	5.6	101	0.00
10	T	Methyl Iodide	50.000	47.349	5.3	99	0.00
11	T	Tert butyl alcohol	250.000	208.135	16.7	92	0.00
12	CM	1,1-Dichloroethene	50.000	45.562	8.9#	101	0.00
13	T	Acrolein	250.000	217.571	13.0	90	0.00
14	T	Allyl chloride	50.000	41.173	17.7	101	0.00
15	T	Acrylonitrile	250.000	217.950	12.8	95	0.00
16	T	Acetone	250.000	210.840	15.7	90	0.00
17	T	Carbon Disulfide	50.000	43.689	12.6	99	0.00
18	T	Methyl Acetate	50.000	42.397	15.2	99	0.00
19	T	Methyl tert-butyl Ether	50.000	46.781	6.4	101	0.00
20	T	Methylene Chloride	50.000	43.645	12.7	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.671	8.7	99	-0.01
22	T	Diisopropyl ether	50.000	46.881	6.2	100	0.00
23	T	Vinyl Acetate	250.000	235.414	5.8	99	0.00
24	P	1,1-Dichloroethane	50.000	46.685	6.6	101	0.00
25	T	2-Butanone	250.000	211.782	15.3	93	0.00
26	T	2,2-Dichloropropane	50.000	47.853	4.3	102	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.113	7.8	101	0.00
28	T	Bromochloromethane	50.000	45.986	8.0	100	0.00
29	T	Tetrahydrofuran	250.000	222.147	11.1	96	0.00
30	C	Chloroform	50.000	47.387	5.2#	101	0.00
31	T	Cyclohexane	50.000	43.474	13.1	102	0.00
32	T	1,1,1-Trichloroethane	50.000	47.135	5.7	101	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.583	-1.2	105	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	109	0.00
35	S	Dibromofluoromethane	50.000	51.549	-3.1	106	0.00
36	T	1,1-Dichloropropene	50.000	47.732	4.5	103	0.00
37	T	Ethyl Acetate	50.000	43.124	13.8	100	0.00
38	T	Carbon Tetrachloride	50.000	47.904	4.2	102	0.00
39	T	Methylcyclohexane	50.000	47.821	4.4	101	0.00
40	TM	Benzene	50.000	47.635	4.7	101	0.00
41	T	Methacrylonitrile	50.000	43.013	14.0	99	0.00
42	TM	1,2-Dichloroethane	50.000	47.310	5.4	102	0.00
43	T	Isopropyl Acetate	50.000	45.577	8.8	100	0.00
44	TM	Trichloroethene	50.000	47.994	4.0	102	0.00
45	C	1,2-Dichloropropane	50.000	48.208	3.6#	101	0.00
46	T	Dibromomethane	50.000	47.124	5.8	98	0.00
47	T	Bromodichloromethane	50.000	47.047	5.9	102	0.00
48	T	Methyl methacrylate	50.000	44.609	10.8	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	885.211	11.5	93	0.00
50	S	Toluene-d8	50.000	52.175	-4.3	105	0.00
51	T	4-Methyl-2-Pentanone	250.000	230.917	7.6	97	0.00
52	CM	Toluene	50.000	48.520	3.0#	101	0.00
53	T	t-1,3-Dichloropropene	50.000	49.776	0.4	100	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.487	3.0	102	0.00
55	T	1,1,2-Trichloroethane	50.000	48.351	3.3	101	0.00
56	T	Ethyl methacrylate	50.000	47.395	5.2	99	0.00
57	T	1,3-Dichloropropane	50.000	47.391	5.2	99	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	244.918	2.0	104	0.00
59	T	2-Hexanone	250.000	224.916	10.0	96	0.00
60	T	Dibromochloromethane	50.000	49.513	1.0	100	0.00
61	T	1,2-Dibromoethane	50.000	47.133	5.7	99	0.00
62	S	4-Bromofluorobenzene	50.000	52.574	-5.1	106	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	109	0.00
64	T	Tetrachloroethene	50.000	48.175	3.7	102	0.00
65	PM	Chlorobenzene	50.000	47.522	5.0	100	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	46.843	6.3	100	0.00
67	C	Ethyl Benzene	50.000	47.764	4.5#	102	0.00
68	T	m/p-Xylenes	100.000	96.434	3.6	102	0.00
69	T	o-Xylene	50.000	46.662	6.7	99	0.00
70	T	Styrene	50.000	48.487	3.0	100	0.00
71	P	Bromoform	50.000	47.797	4.4	97	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	110	0.00
73	T	Isopropylbenzene	50.000	46.893	6.2	101	0.00
74	T	N-amyl acetate	50.000	43.748	12.5	98	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	43.016	14.0	96	0.00
76	T	1,2,3-Trichloropropane	50.000	42.119	15.8	95	0.00
77	T	Bromobenzene	50.000	46.649	6.7	99	0.00
78	T	n-propylbenzene	50.000	47.678	4.6	101	0.00
79	T	2-Chlorotoluene	50.000	46.398	7.2	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	47.673	4.7	102	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.070	5.9	105	0.00
82	T	4-Chlorotoluene	50.000	46.512	7.0	101	0.00
83	T	tert-Butylbenzene	50.000	46.173	7.7	99	0.00
84	T	1,2,4-Trimethylbenzene	50.000	46.493	7.0	98	0.00
85	T	sec-Butylbenzene	50.000	47.018	6.0	99	0.00
86	T	p-Isopropyltoluene	50.000	47.566	4.9	99	0.00
87	T	1,3-Dichlorobenzene	50.000	45.959	8.1	99	0.00
88	T	1,4-Dichlorobenzene	50.000	45.499	9.0	99	0.00
89	T	n-Butylbenzene	50.000	48.489	3.0	100	0.00
90	T	Hexachloroethane	50.000	46.741	6.5	100	0.00
91	T	1,2-Dichlorobenzene	50.000	45.255	9.5	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	41.753	16.5	93	0.00
93	T	1,2,4-Trichlorobenzene	50.000	46.054	7.9	97	0.00
94	T	Hexachlorobutadiene	50.000	43.315	13.4	98	0.00
95	T	Naphthalene	50.000	44.692	10.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	45.221	9.6	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG No.: P3451

Instrument ID: MSVOA_N Calibration Date/Time: 08/14/2024 02:14

Lab File ID: VN083273.D Init. Calib. Date(s): 08/07/2024 08/07/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:33 12:34

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.567	0.522		-7.94	20
Chloromethane	0.581	0.527	0.1	-9.29	20
Vinyl Chloride	0.592	0.575		-2.87	20
Bromomethane	0.368	0.331		-10.05	20
Chloroethane	0.371	0.373		0.54	20
1,1,2-Trichlorotrifluoroethane	0.539	0.535		-0.74	20
1,1-Dichloroethene	0.554	0.506		-8.66	20
Acetone	0.278	0.237		-14.75	20
Carbon Disulfide	1.622	1.315		-18.93	20
Methyl tert-butyl Ether	2.001	1.942		-2.95	20
Methylene Chloride	0.641	0.582		-9.2	20
trans-1,2-Dichloroethene	0.573	0.535		-6.63	20
1,1-Dichloroethane	1.073	1.074	0.1	0.09	20
Cyclohexane	1.055	0.902		-14.5	20
2-Butanone	0.428	0.388		-9.35	20
Carbon Tetrachloride	0.532	0.520		-2.26	20
cis-1,2-Dichloroethene	0.691	0.670		-3.04	20
Chloroform	1.115	1.154		3.5	20
1,1,1-Trichloroethane	1.055	1.071		1.52	20
Methylcyclohexane	0.580	0.509		-12.24	20
Benzene	1.406	1.358		-3.41	20
1,2-Dichloroethane	0.512	0.512		0	20
Trichloroethene	0.335	0.321		-4.18	20
Bromodichloromethane	0.537	0.535		-0.37	20
Toluene	0.889	0.866		-2.59	20
1,1,2-Trichloroethane	0.318	0.320		0.63	20
Dibromochloromethane	0.385	0.394		2.34	20
Tetrachloroethene	0.331	0.321		-3.02	20
Chlorobenzene	1.105	1.051	0.3	-4.89	20
Ethyl Benzene	2.027	1.943		-4.14	20
m/p-Xylenes	0.759	0.733		-3.43	20
o-Xylene	0.749	0.718		-4.14	20
Isopropylbenzene	4.182	3.855		-7.82	20
1,4-Dichlorobenzene	1.762	1.610		-8.63	20
1,2-Dichlorobenzene	1.692	1.570		-7.21	20
1,2-Dichloroethane-d4	0.712	0.707		-0.7	20
Dibromofluoromethane	0.312	0.295		-5.45	20
Toluene-d8	1.164	1.107		-4.9	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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.: P3451 SAS No.: P3451 SDG No.: P3451

Instrument ID: MSVOA_N Calibration Date/Time: 08/14/2024 02:14

Lab File ID: VN083273.D Init. Calib. Date(s): 08/07/2024 08/07/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:33 12:34

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
4-Bromofluorobenzene	0.454	0.432		-4.85	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083273.D
Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	173401	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	306155	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	269814	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130108	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.577	65	122516	49.638	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.280%				
35) Dibromofluoromethane	8.165	113	90327	47.268	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.540%				
50) Toluene-d8	10.565	98	338943	47.549	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.100%				
62) 4-Bromofluorobenzene	12.847	95	132226	47.580	ug/l		0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 95.160%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	90466	46.006	ug/l		96
3) Chloromethane	2.365	50	91400	45.401	ug/l		98
4) Vinyl Chloride	2.512	62	99698	48.533	ug/l		97
5) Bromomethane	2.942	94	57436	45.060	ug/l		98
6) Chloroethane	3.112	64	64761	50.390	ug/l		99
7) Trichlorofluoromethane	3.495	101	170380	50.207	ug/l		100
8) Diethyl Ether	3.959	74	61021	48.323	ug/l		84
9) 1,1,2-Trichlorotrifluo...	4.371	101	92740	49.568	ug/l		97
10) Methyl Iodide	4.589	142	106536	43.287	ug/l		99
11) Tert butyl alcohol	5.524	59	121460	236.796	ug/l		99
12) 1,1-Dichloroethene	4.336	96	87675	45.612	ug/l		94
13) Acrolein	4.177	56	65834	196.931	ug/l		98
14) Allyl chloride	5.024	41	145530	40.064	ug/l		94
15) Acrylonitrile	5.718	53	247750	234.853	ug/l		99
16) Acetone	4.424	43	205078	212.343	ug/l		98
17) Carbon Disulfide	4.706	76	228102	40.556	ug/l		98
18) Methyl Acetate	5.024	43	140082	48.682	ug/l		93
19) Methyl tert-butyl Ether	5.795	73	336684	48.527	ug/l		99
20) Methylene Chloride	5.277	84	100981	45.431	ug/l		88
21) trans-1,2-Dichloroethene	5.783	96	92774	46.698	ug/l		96
22) Diisopropyl ether	6.671	45	345219	50.559	ug/l		97
23) Vinyl Acetate	6.600	43	1717642m	245.427	ug/l		
24) 1,1-Dichloroethane	6.565	63	186243	50.042	ug/l		100
25) 2-Butanone	7.483	43	336054	226.614	ug/l		94
26) 2,2-Dichloropropane	7.489	77	115695	33.474	ug/l		98
27) cis-1,2-Dichloroethene	7.489	96	116118	48.436	ug/l		89
28) Bromochloromethane	7.812	49	73126	48.079	ug/l		86
29) Tetrahydrofuran	7.841	42	222339	231.937	ug/l		89
30) Chloroform	7.965	83	200122	51.757	ug/l		99
31) Cyclohexane	8.259	56	156417	42.764	ug/l		98
32) 1,1,1-Trichloroethane	8.165	97	185672	50.731	ug/l		96
36) 1,1-Dichloropropene	8.371	75	135648	46.925	ug/l		99
37) Ethyl Acetate	7.559	43	137449	42.466	ug/l	#	93
38) Carbon Tetrachloride	8.365	117	159134	48.876	ug/l		99
39) Methylcyclohexane	9.600	83	155926	43.916	ug/l		96
40) Benzene	8.606	78	415815	48.285	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083273.D
Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	81416	44.240 ug/l		95
42) 1,2-Dichloroethane	8.671	62	156783	49.978 ug/l		99
43) Isopropyl Acetate	8.688	43	260306	46.121 ug/l	#	94
44) Trichloroethene	9.353	130	98415	48.013 ug/l		97
45) 1,2-Dichloropropane	9.618	63	101068	49.443 ug/l		99
46) Dibromomethane	9.706	93	73606	50.307 ug/l		99
47) Bromodichloromethane	9.888	83	163926	49.897 ug/l		98
48) Methyl methacrylate	9.682	41	121167	45.281 ug/l		93
49) 1,4-Dioxane	9.694	88	40696	842.987 ug/l		97
51) 4-Methyl-2-Pentanone	10.441	43	725322	236.978 ug/l		93
52) Toluene	10.630	92	265163	48.733 ug/l		99
53) t-1,3-Dichloropropene	10.835	75	157356	46.629 ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	163678	45.600 ug/l		92
55) 1,1,2-Trichloroethane	11.018	97	97875	50.194 ug/l		98
56) Ethyl methacrylate	10.871	69	175704	47.798 ug/l		88
57) 1,3-Dichloropropane	11.165	76	174124	50.099 ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	372196	239.532 ug/l		96
59) 2-Hexanone	11.194	43	535223	226.034 ug/l		93
60) Dibromochloromethane	11.359	129	120644	51.173 ug/l		98
61) 1,2-Dibromoethane	11.471	107	101266	49.436 ug/l		97
64) Tetrachloroethene	11.106	164	86650	48.491 ug/l		96
65) Chlorobenzene	11.894	112	283451	47.539 ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	100637	47.857 ug/l		100
67) Ethyl Benzene	11.965	91	524382	47.941 ug/l		98
68) m/p-Xylenes	12.071	106	395309	96.479 ug/l		99
69) o-Xylene	12.400	106	193761	47.948 ug/l		100
70) Styrene	12.412	104	331385	48.825 ug/l		99
71) Bromoform	12.576	173	75736	47.541 ug/l	#	97
73) Isopropylbenzene	12.694	105	501606	46.093 ug/l		100
74) N-amyl acetate	12.494	43	228068	42.845 ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.935	83	140731	45.722 ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	125319m	43.886 ug/l		
77) Bromobenzene	12.976	156	114435	47.337 ug/l		97
78) n-propylbenzene	13.035	91	589118	47.013 ug/l		99
79) 2-Chlorotoluene	13.123	91	364980	45.940 ug/l		98
80) 1,3,5-Trimethylbenzene	13.171	105	425635	46.717 ug/l		98
81) trans-1,4-Dichloro-2-b...	12.735	75	46990	35.795 ug/l		97
82) 4-Chlorotoluene	13.218	91	370428	46.484 ug/l		97
83) tert-Butylbenzene	13.435	119	374894	46.463 ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	435034	47.380 ug/l		98
85) sec-Butylbenzene	13.618	105	510406	46.360 ug/l		99
86) p-Isopropyltoluene	13.729	119	428320	47.118 ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	212036	46.613 ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	209492	45.682 ug/l		98
89) n-Butylbenzene	14.053	91	364428	46.266 ug/l		98
90) Hexachloroethane	14.335	117	80859	46.041 ug/l		94
91) 1,2-Dichlorobenzene	14.106	146	204215	46.393 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	31578	42.279 ug/l		100
93) 1,2,4-Trichlorobenzene	15.394	180	111553	45.235 ug/l		98
94) Hexachlorobutadiene	15.500	225	44878	40.920 ug/l		98
95) Naphthalene	15.641	128	384733	44.043 ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	110878	45.439 ug/l		94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083273.D
Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

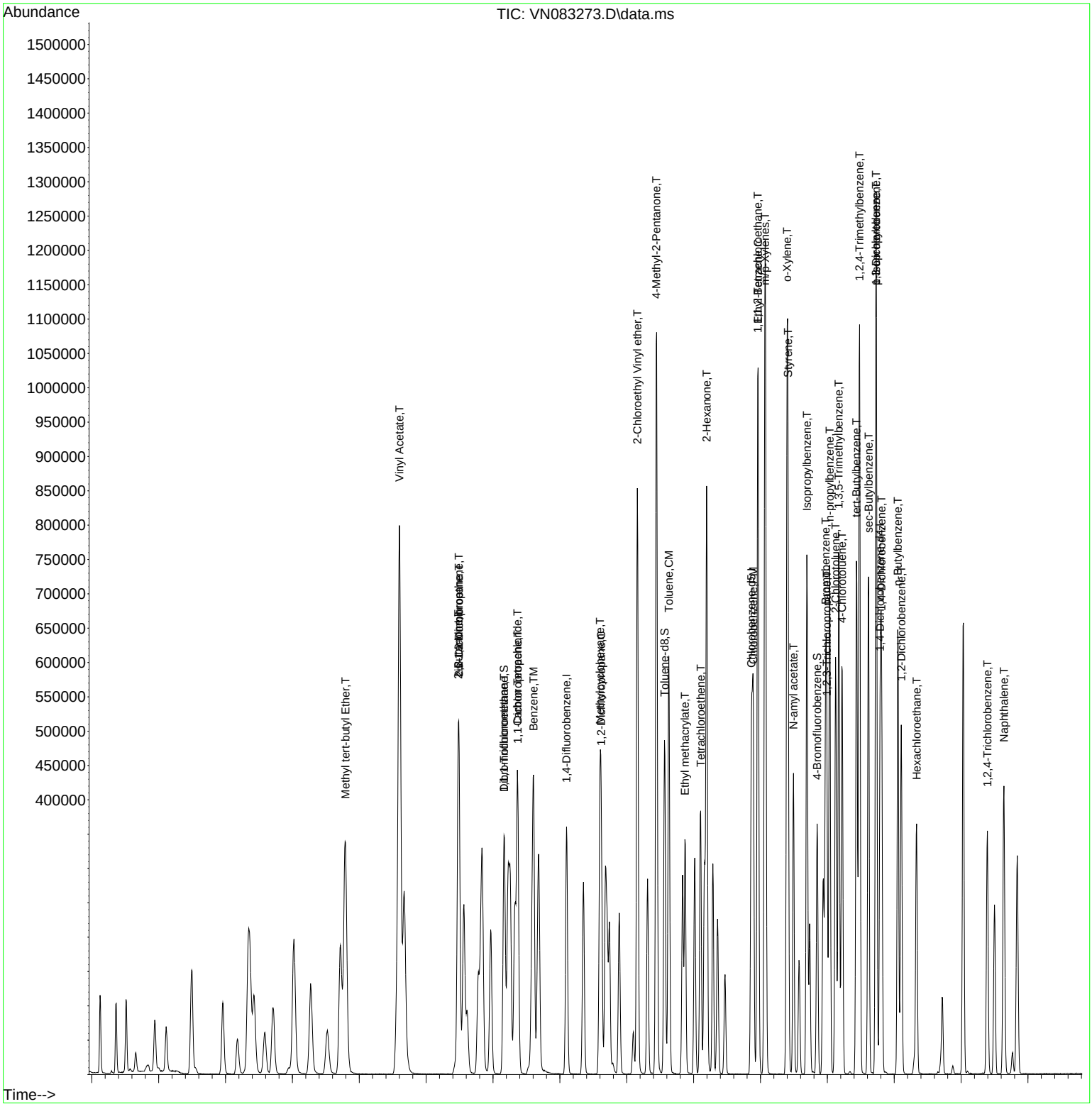
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Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

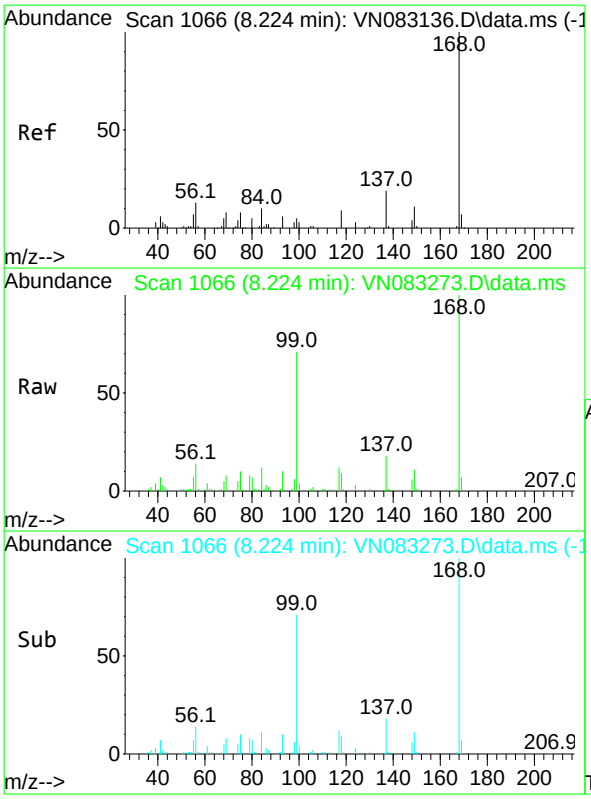
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Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2024
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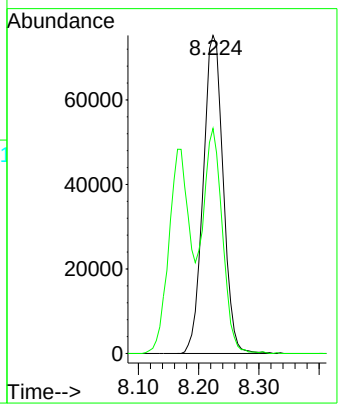




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:168 Resp: 173401

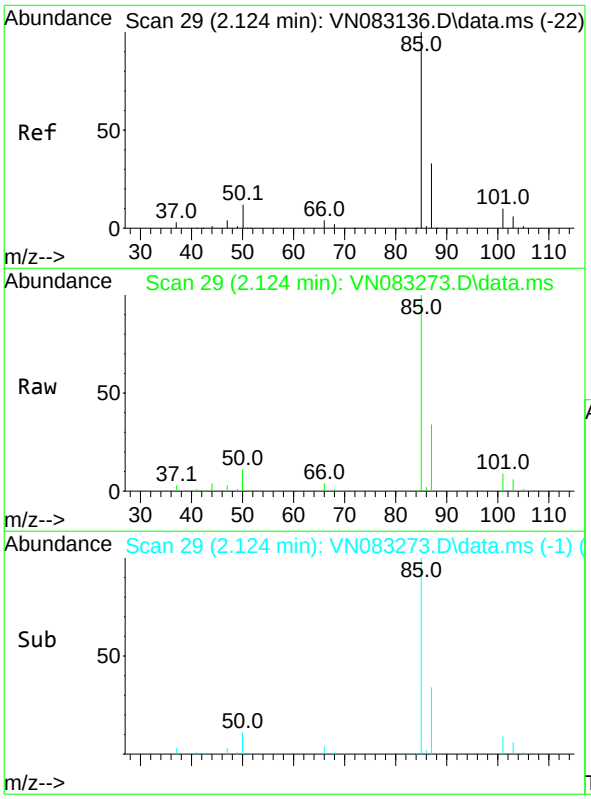
Ion	Ratio	Lower	Upper
168	100		
99	70.5	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

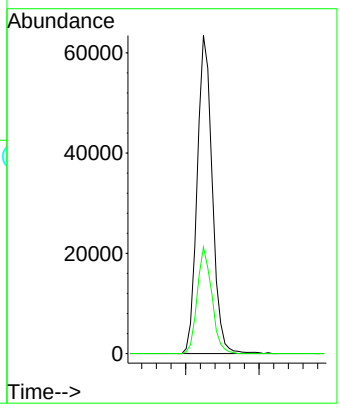
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

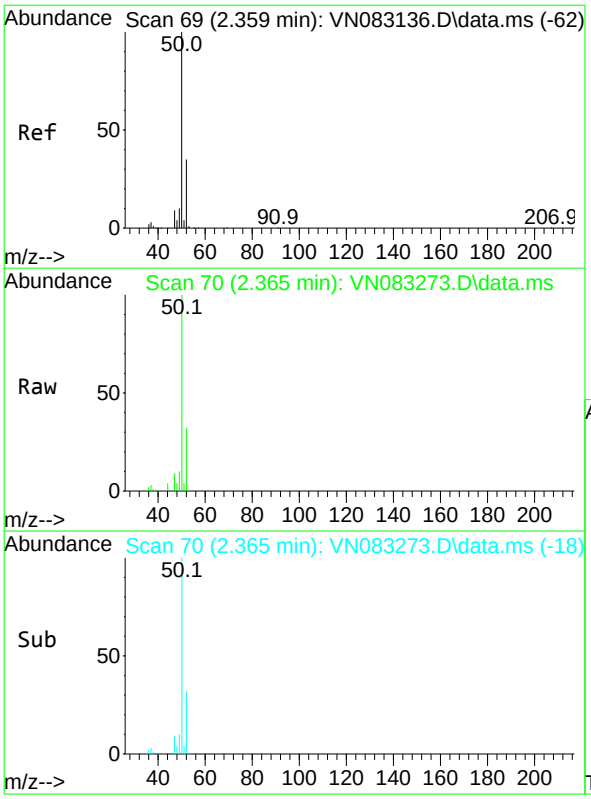


#2
Dichlorodifluoromethane
Concen: 46.006 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 85 Resp: 90466

Ion	Ratio	Lower	Upper
85	100		
87	33.5	15.7	47.0

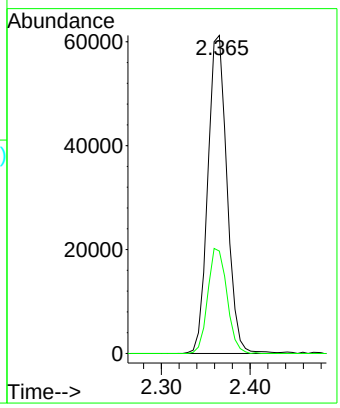




#3
Chloromethane
Concen: 45.401 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 50 Resp: 91400

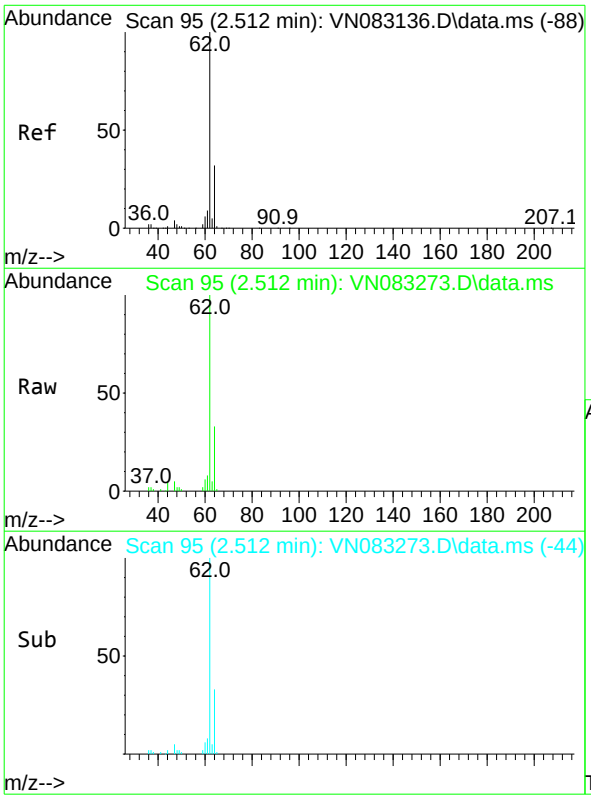
Ion	Ratio	Lower	Upper
50	100		
52	32.2	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

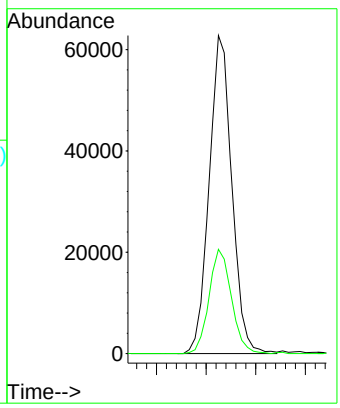
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

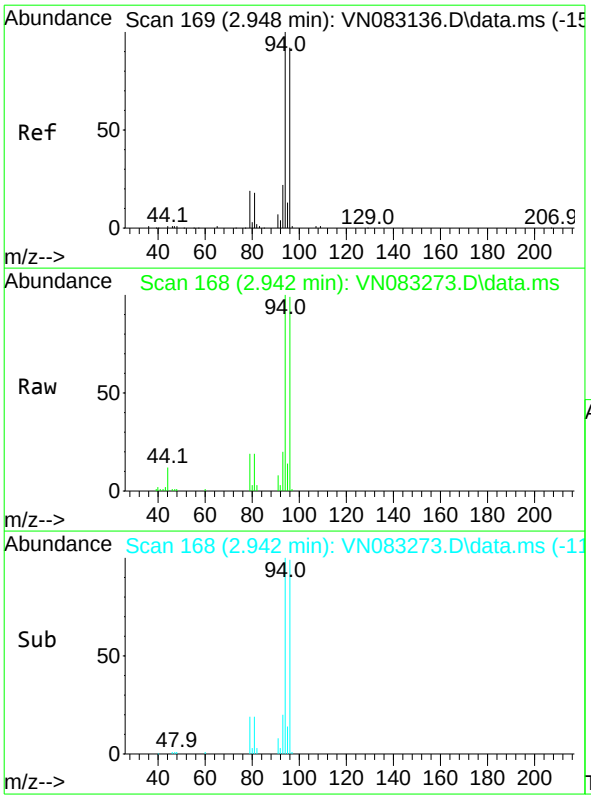


#4
Vinyl Chloride
Concen: 48.533 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 62 Resp: 99698

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.0	37.6

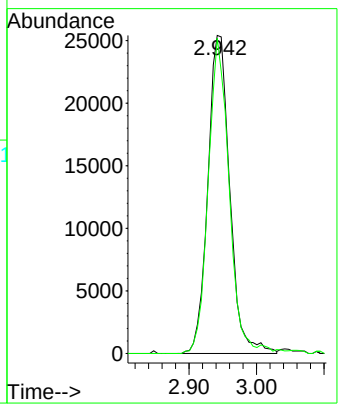




#5
Bromomethane
Concen: 45.060 ug/l
RT: 2.942 min Scan# 16
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 94 Resp: 57436

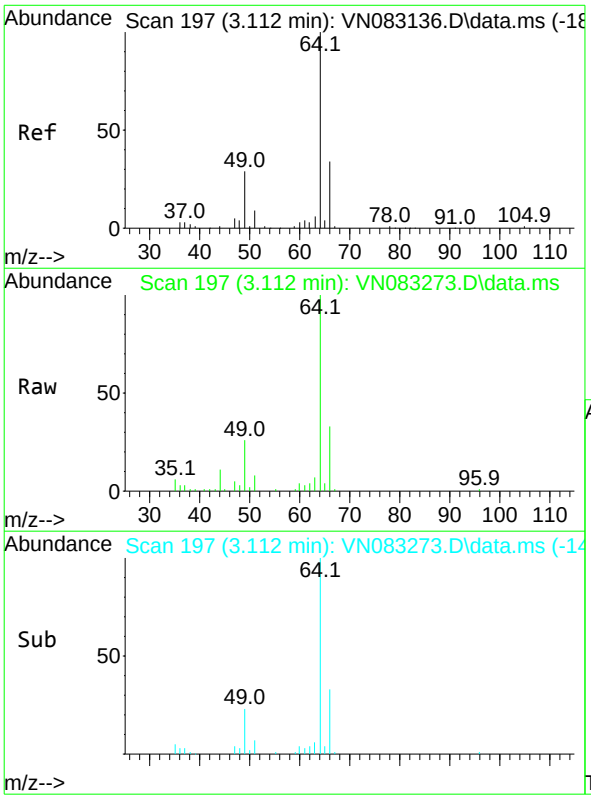
Ion	Ratio	Lower	Upper
94	100		
96	99.2	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

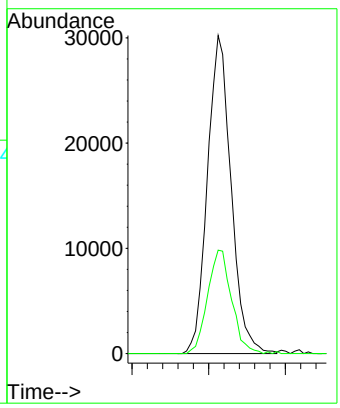
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

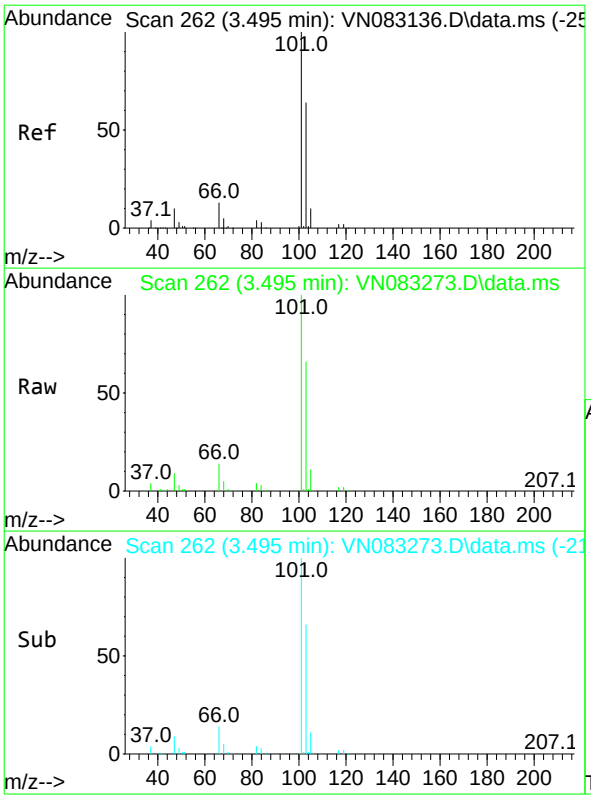


#6
Chloroethane
Concen: 50.390 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 64 Resp: 64761

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.6	40.0

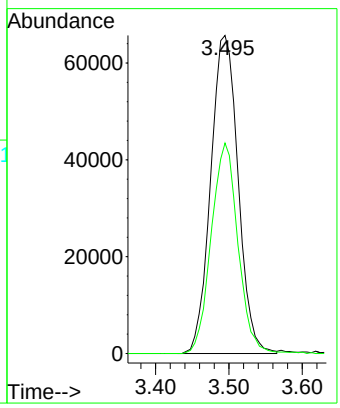




#7
Trichlorofluoromethane
Concen: 50.207 ug/l
RT: 3.495 min Scan# 26
Delta R.T. -0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:101 Resp: 170380

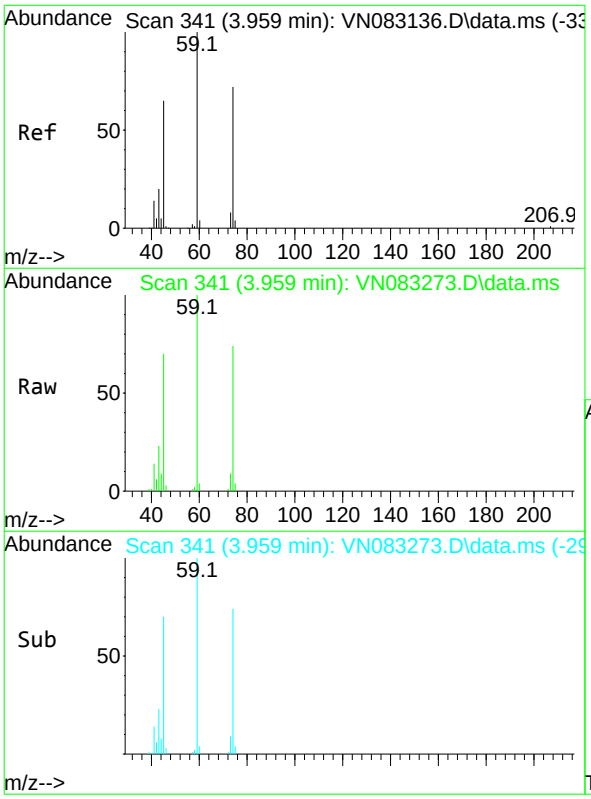
Ion	Ratio	Lower	Upper
101	100		
103	66.1	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

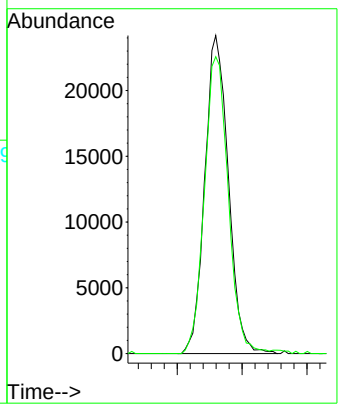
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

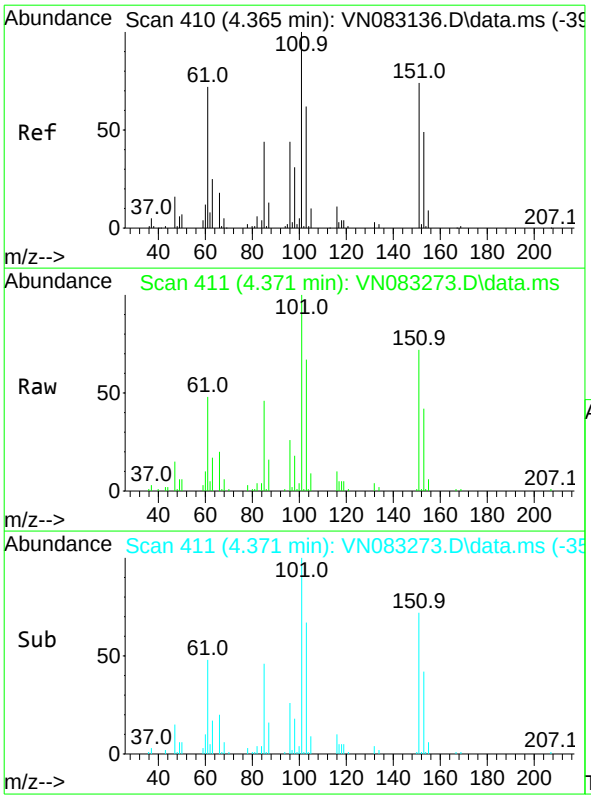


#8
Diethyl Ether
Concen: 48.323 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 74 Resp: 61021

Ion	Ratio	Lower	Upper
74	100		
45	94.4	55.5	166.3

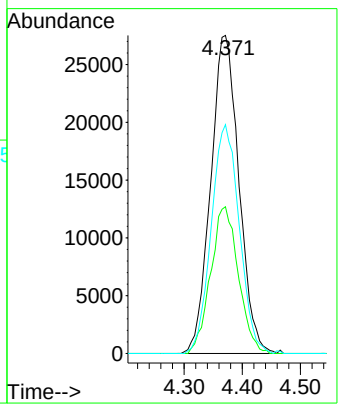




#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.568 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:101 Resp: 92740

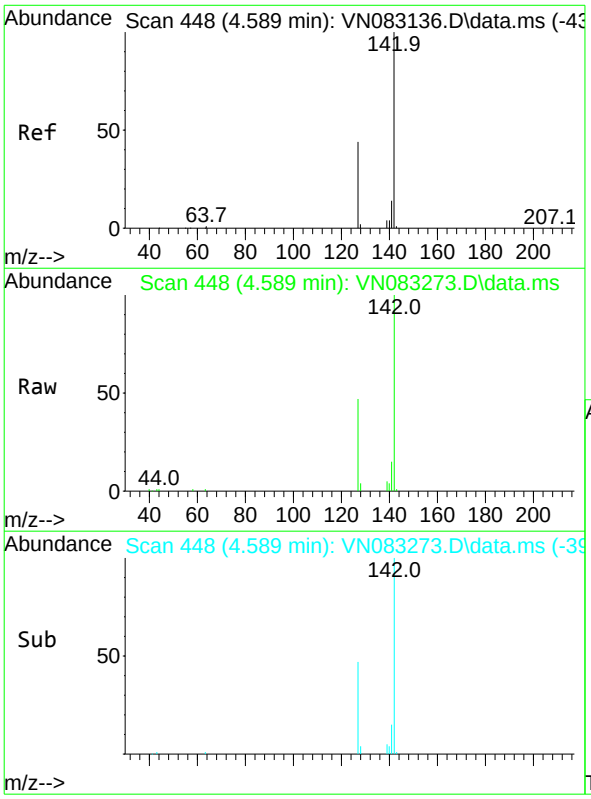
Ion	Ratio	Lower	Upper
101	100		
85	45.3	38.3	57.5
151	71.5	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

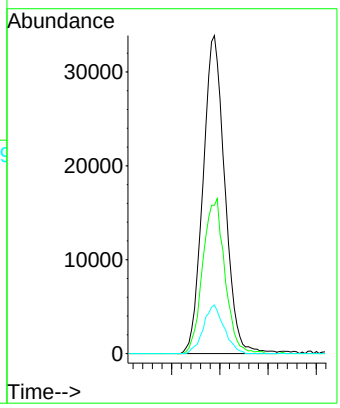
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

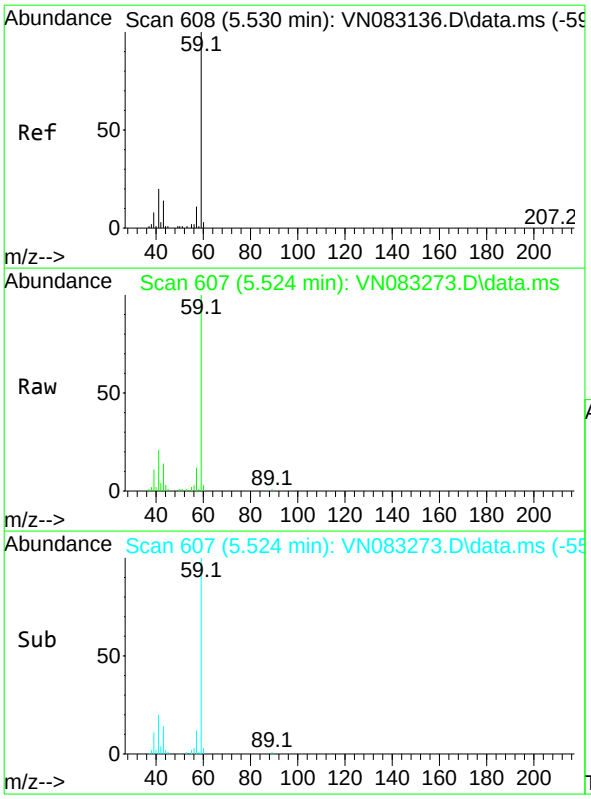


#10
Methyl Iodide
Concen: 43.287 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:142 Resp: 106536

Ion	Ratio	Lower	Upper
142	100		
127	46.6	37.5	56.3
141	15.3	13.1	19.7

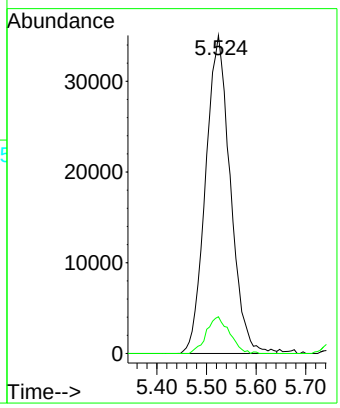




#11
Tert butyl alcohol
Concen: 236.796 ug/l
RT: 5.524 min Scan# 60
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 59 Resp: 121460

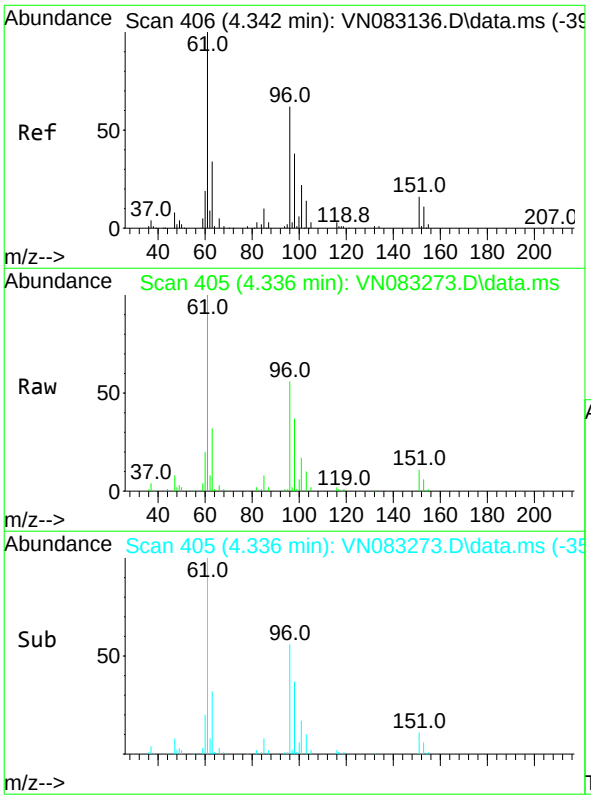
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

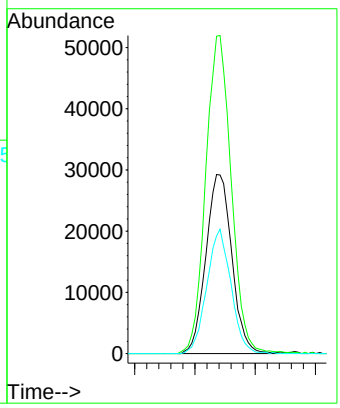
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

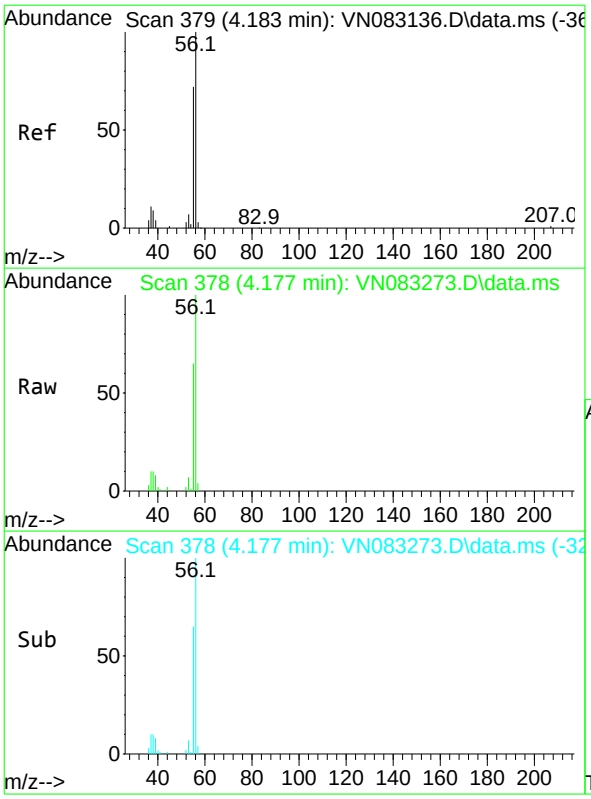


#12
1,1-Dichloroethene
Concen: 45.612 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 96 Resp: 87675

Ion	Ratio	Lower	Upper
96	100		
61	177.2	149.7	224.5
98	65.7	50.1	75.1

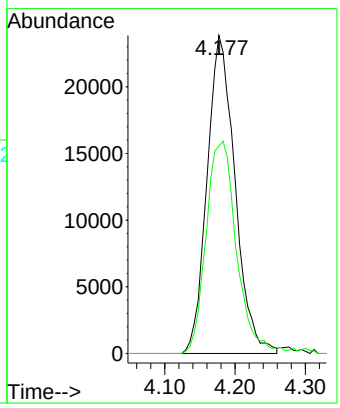




#13
Acrolein
Concen: 196.931 ug/l
RT: 4.177 min Scan# 37
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 56 Resp: 65834

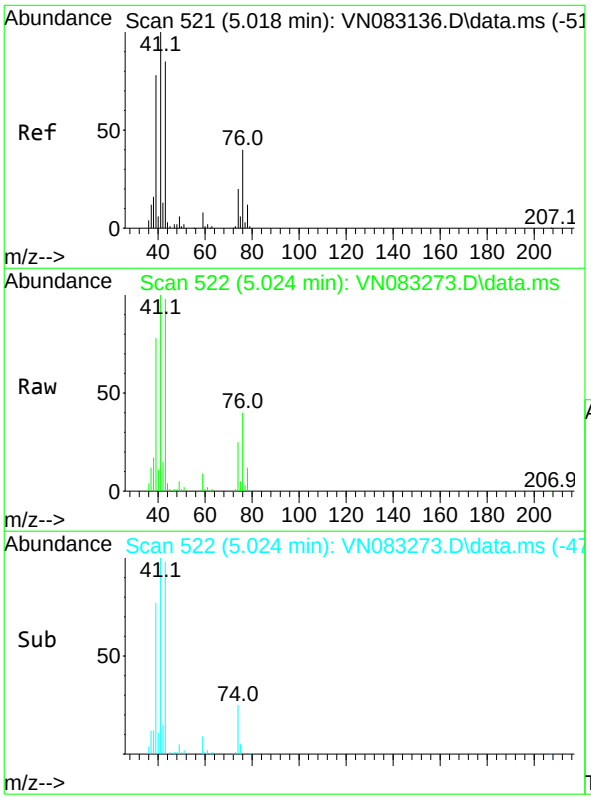
Ion	Ratio	Lower	Upper
56	100		
55	72.5	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

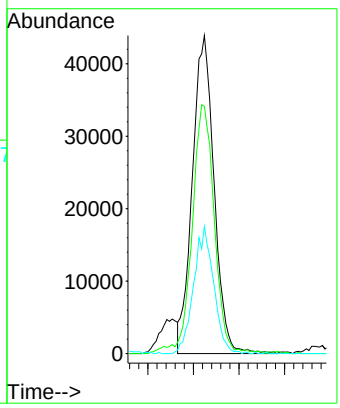
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

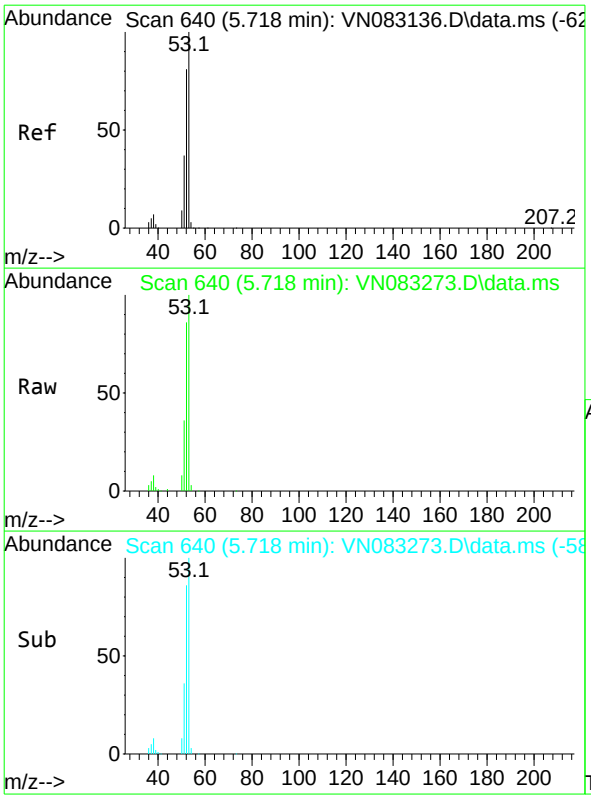


#14
Allyl chloride
Concen: 40.064 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 41 Resp: 145530

Ion	Ratio	Lower	Upper
41	100		
39	79.9	67.8	101.6
76	36.7	25.8	38.8

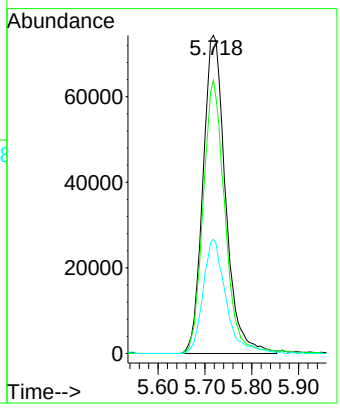




#15
Acrylonitrile
Concen: 234.853 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 53 Resp: 247750

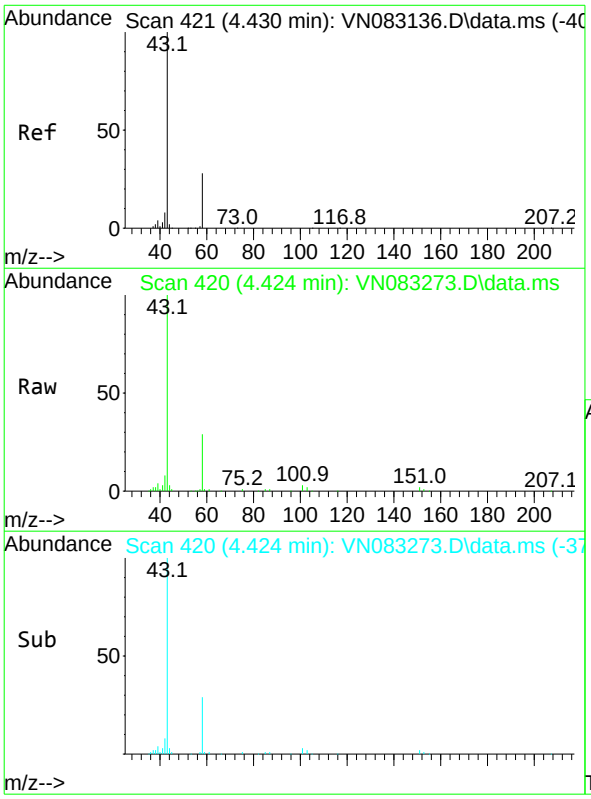
Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.6	100.0
51	36.5	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

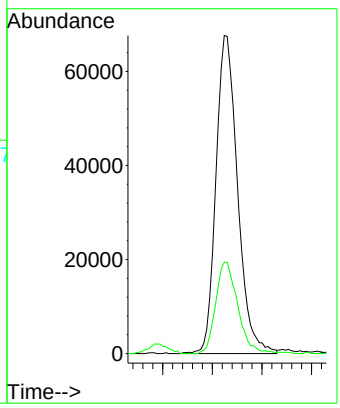
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

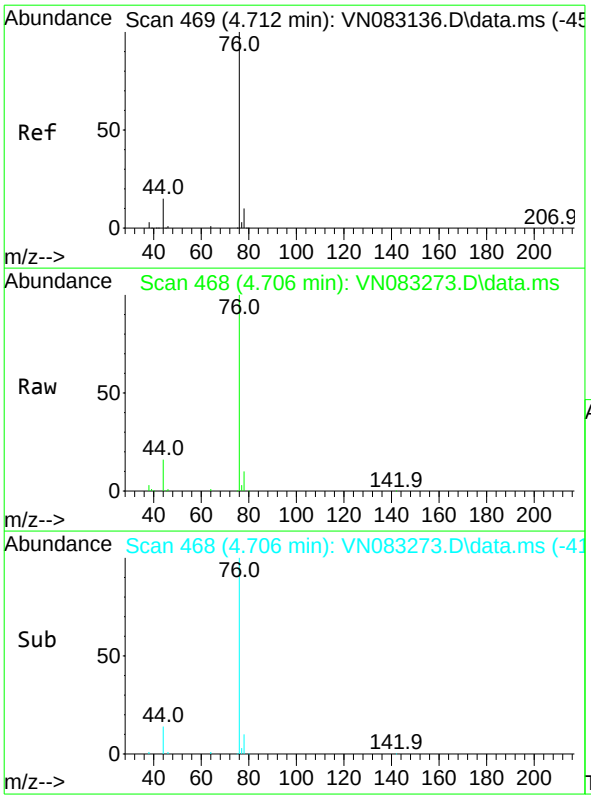


#16
Acetone
Concen: 212.343 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 43 Resp: 205078

Ion	Ratio	Lower	Upper
43	100		
58	28.4	21.8	32.6

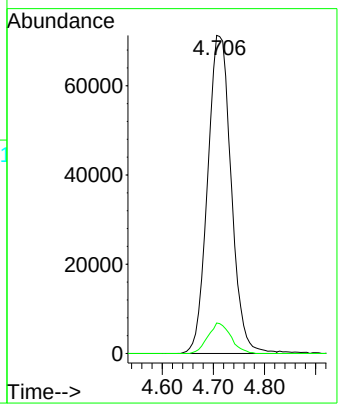




#17
Carbon Disulfide
Concen: 40.556 ug/l
RT: 4.706 min Scan# 46
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 76 Resp: 228102

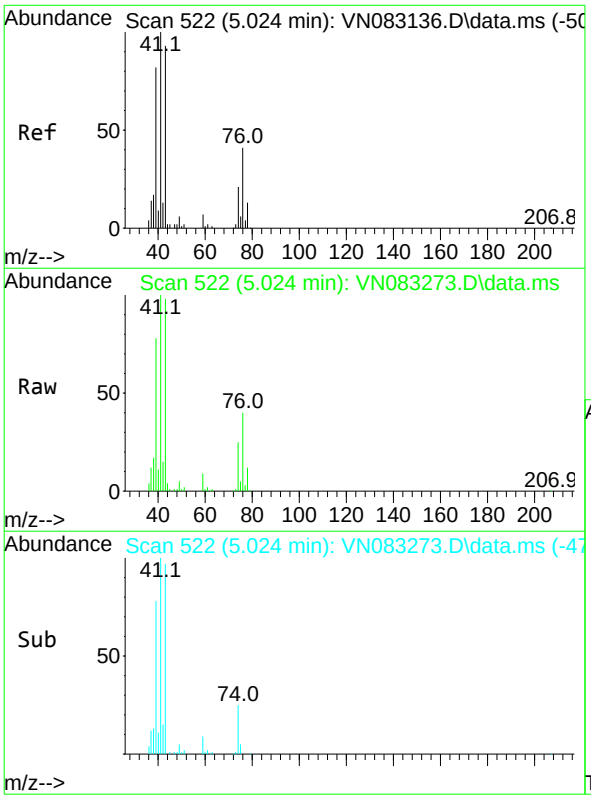
Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

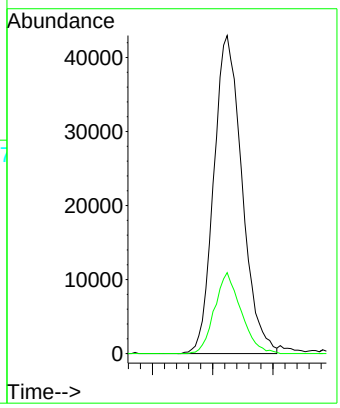
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

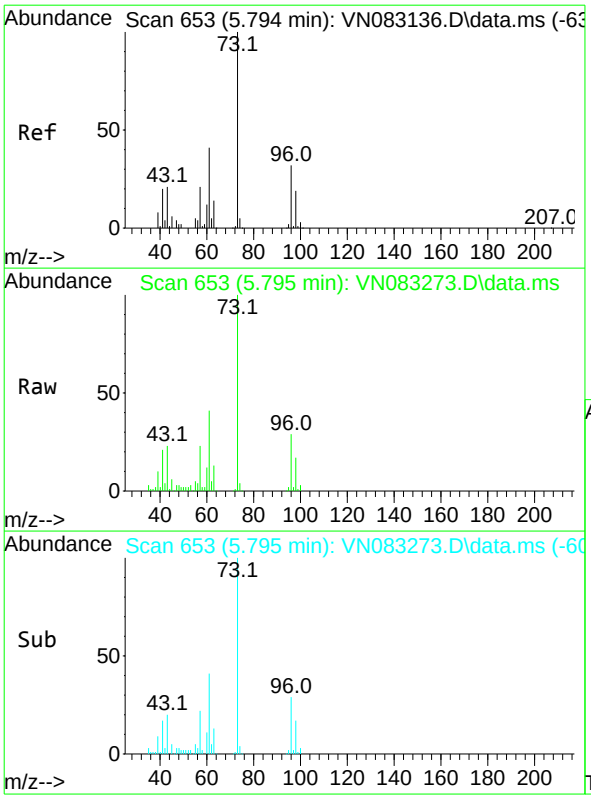


#18
Methyl Acetate
Concen: 48.682 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 43 Resp: 140082

Ion	Ratio	Lower	Upper
43	100		
74	23.9	16.3	24.5

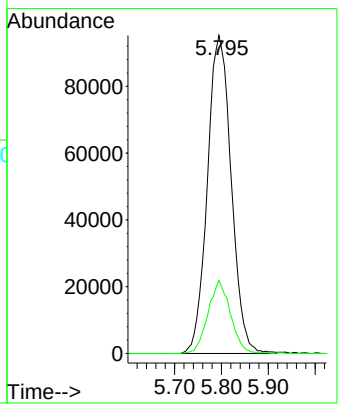




#19
Methyl tert-butyl Ether
Concen: 48.527 ug/l
RT: 5.795 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 73 Resp: 336684

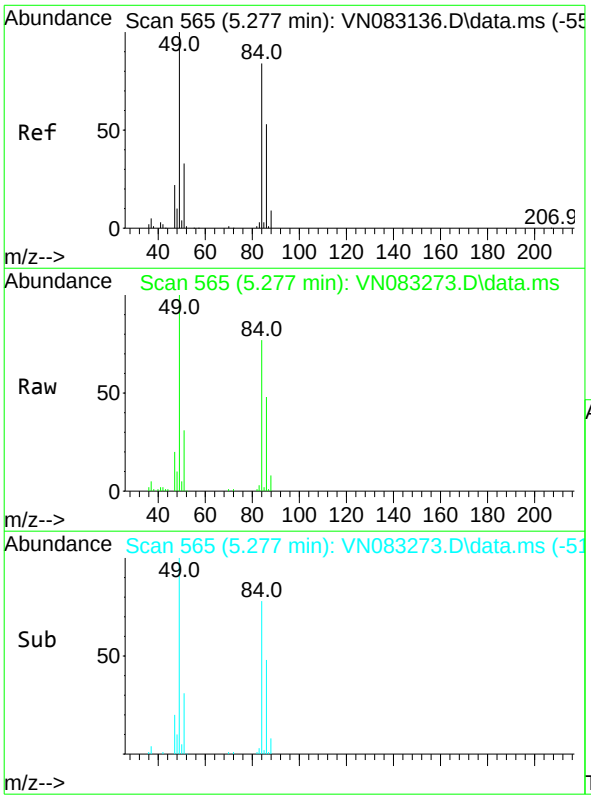
Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

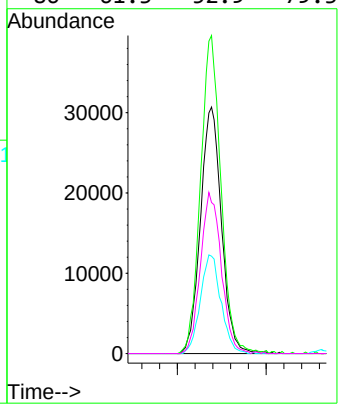
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

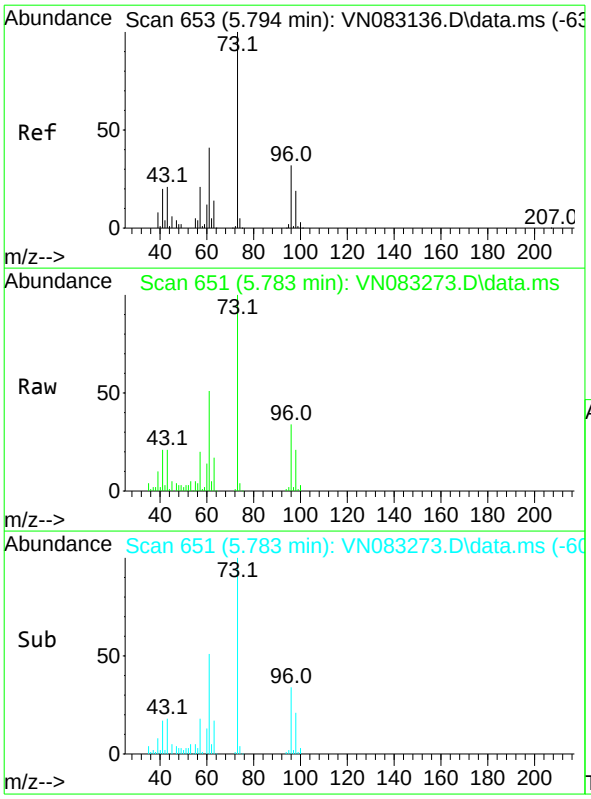


#20
Methylene Chloride
Concen: 45.431 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 84 Resp: 100981

Ion	Ratio	Lower	Upper
84	100		
49	129.0	119.6	179.4
51	39.5	34.8	52.2
86	61.3	52.9	79.3

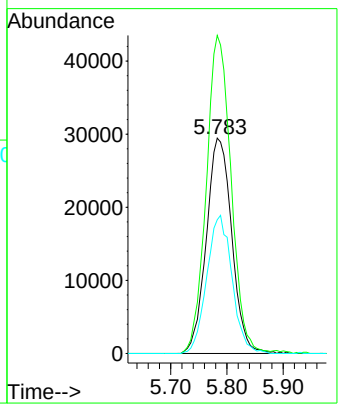




#21
trans-1,2-Dichloroethene
Concen: 46.698 ug/l
RT: 5.783 min Scan# 65
Delta R.T. -0.012 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 96 Resp: 92774

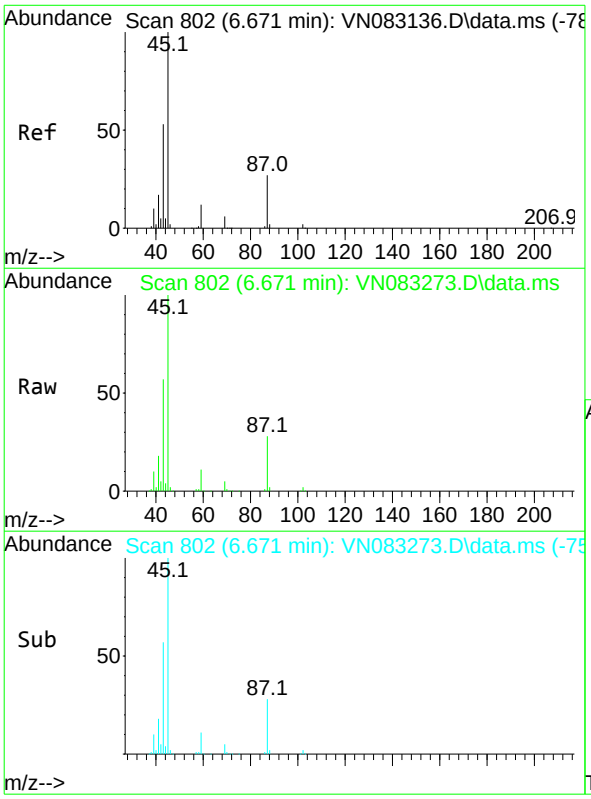
Ion	Ratio	Lower	Upper
96	100		
61	147.7	123.4	185.2
98	62.1	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

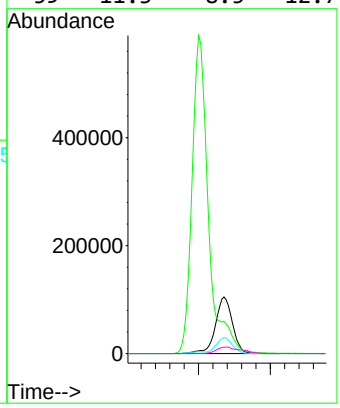
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

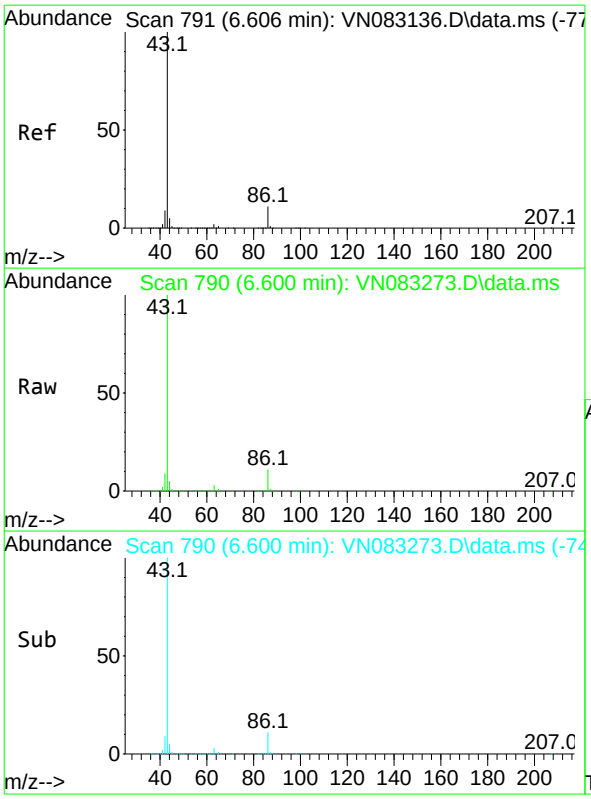


#22
Diisopropyl ether
Concen: 50.559 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 45 Resp: 345219

Ion	Ratio	Lower	Upper
45	100		
43	56.3	44.0	66.0
87	28.3	19.7	29.5
59	11.3	8.5	12.7

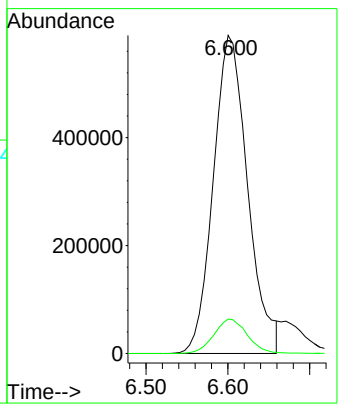




#23
Vinyl Acetate
Concen: 245.427 ug/l m
RT: 6.600 min Scan# 79
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 43 Resp: 1717642

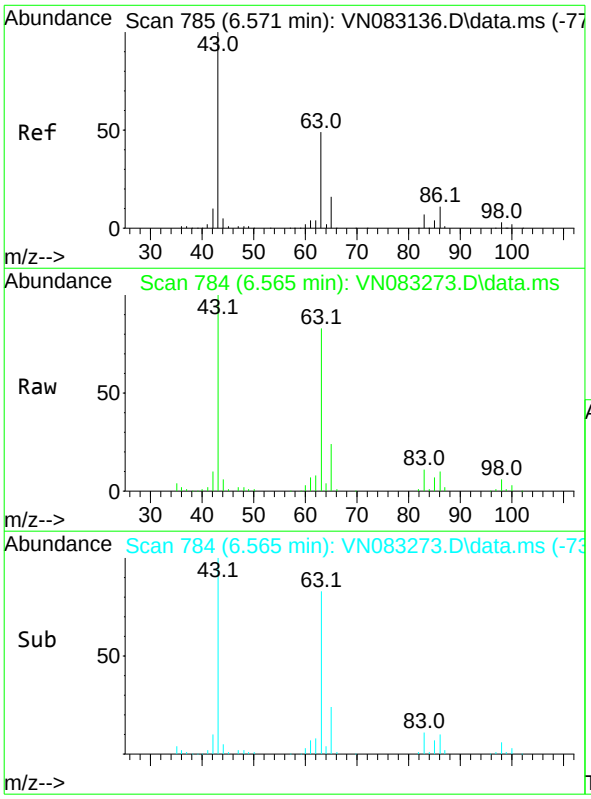
Ion	Ratio	Lower	Upper
43	100		
86	10.8	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

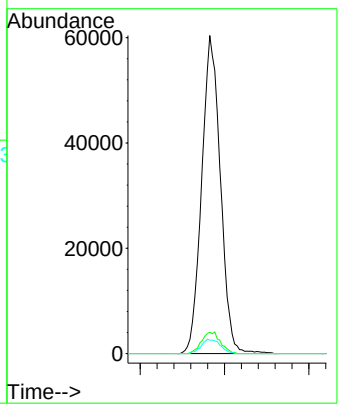
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

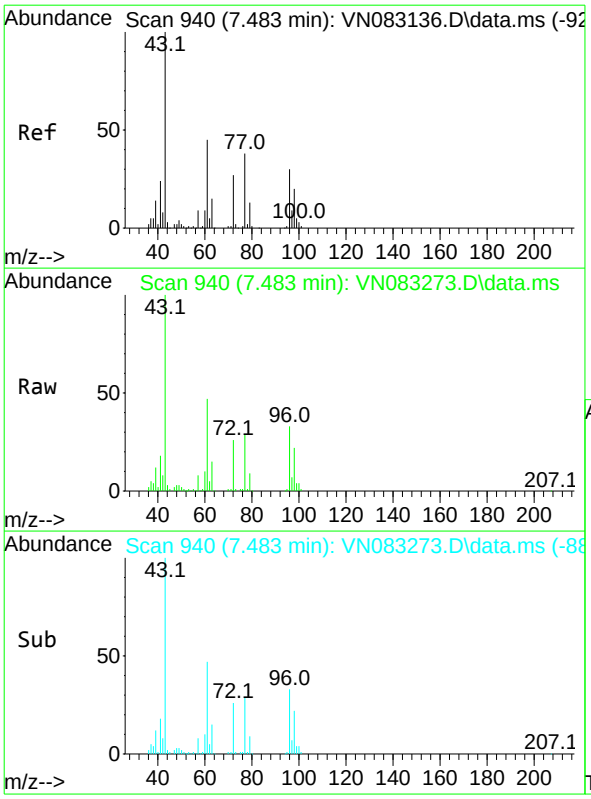


#24
1,1-Dichloroethane
Concen: 50.042 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 63 Resp: 186243

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.3	9.9
100	4.2	2.0	6.0

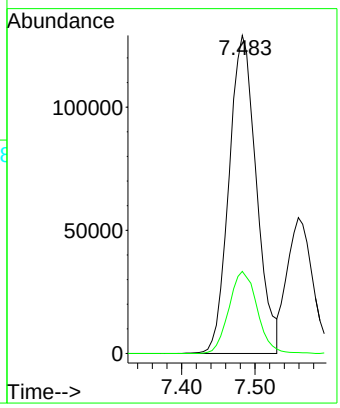




#25
2-Butanone
Concen: 226.614 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 43 Resp: 336054

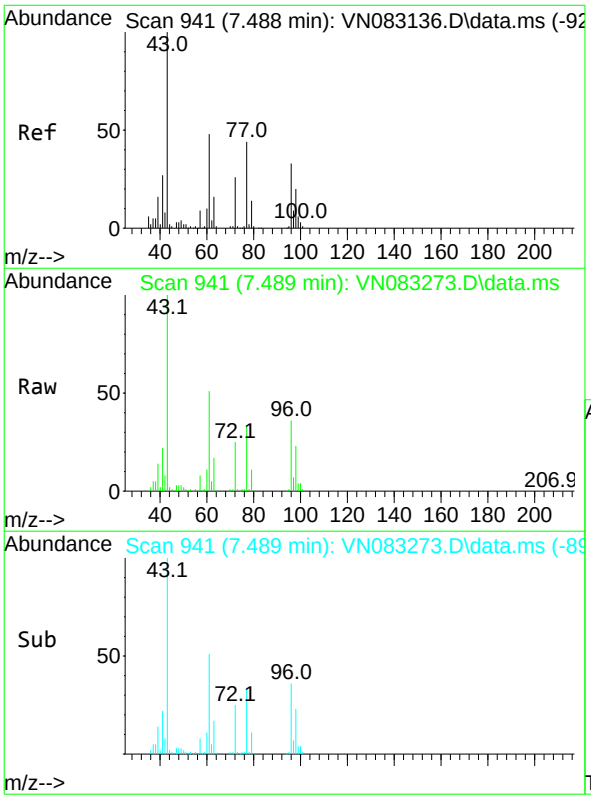
Ion	Ratio	Lower	Upper
43	100		
72	25.8	18.2	27.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

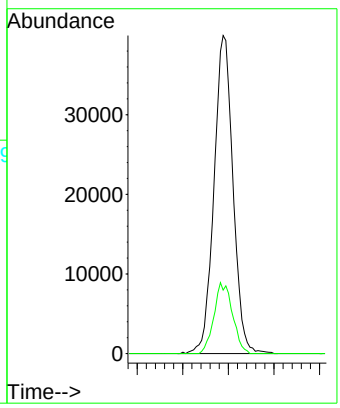
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

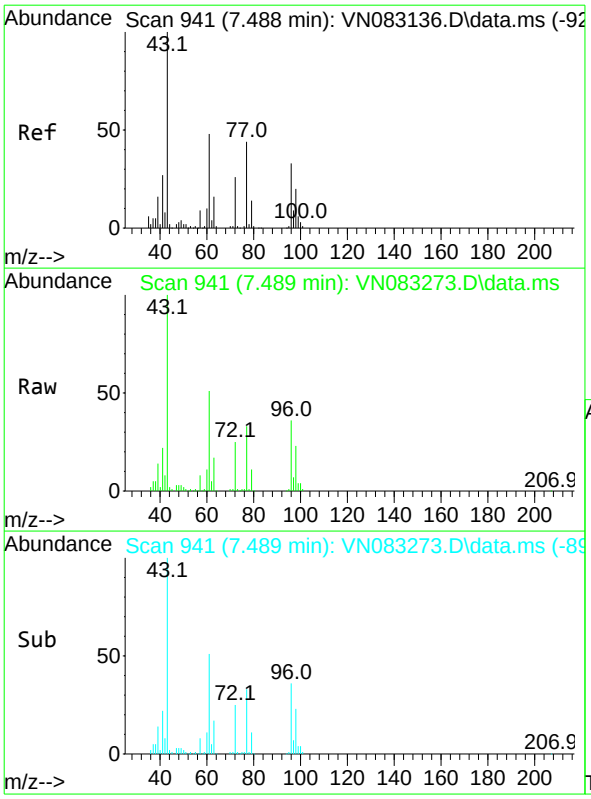


#26
2,2-Dichloropropane
Concen: 33.474 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 77 Resp: 115695

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.3	30.9

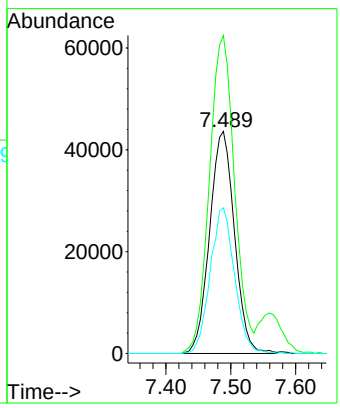




#27
cis-1,2-Dichloroethene
Concen: 48.436 ug/l
RT: 7.489 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 96 Resp: 116118

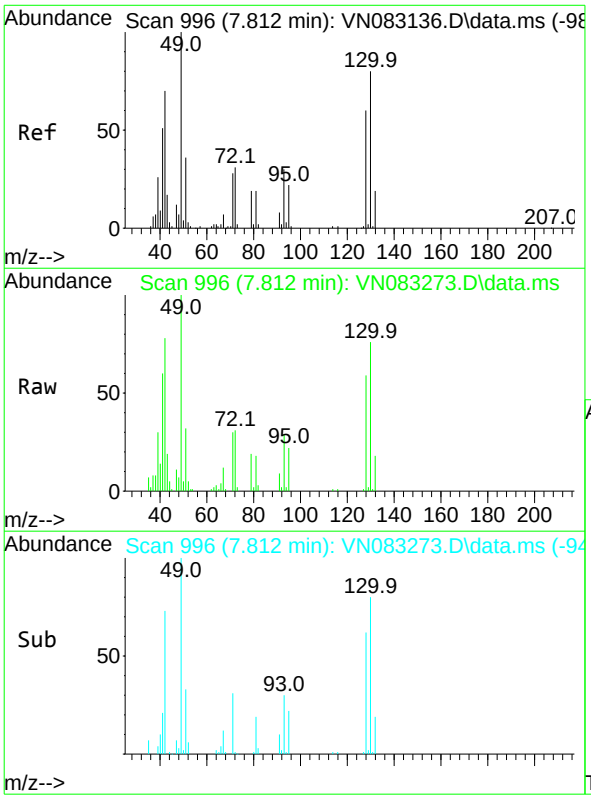
Ion	Ratio	Lower	Upper
96	100		
61	145.0	0.0	329.6
98	64.4	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

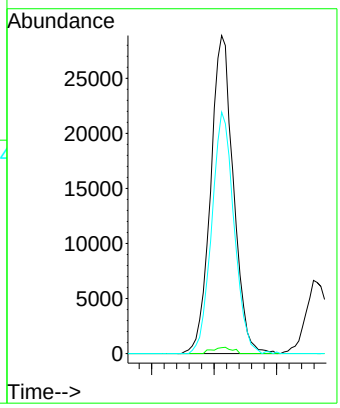
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

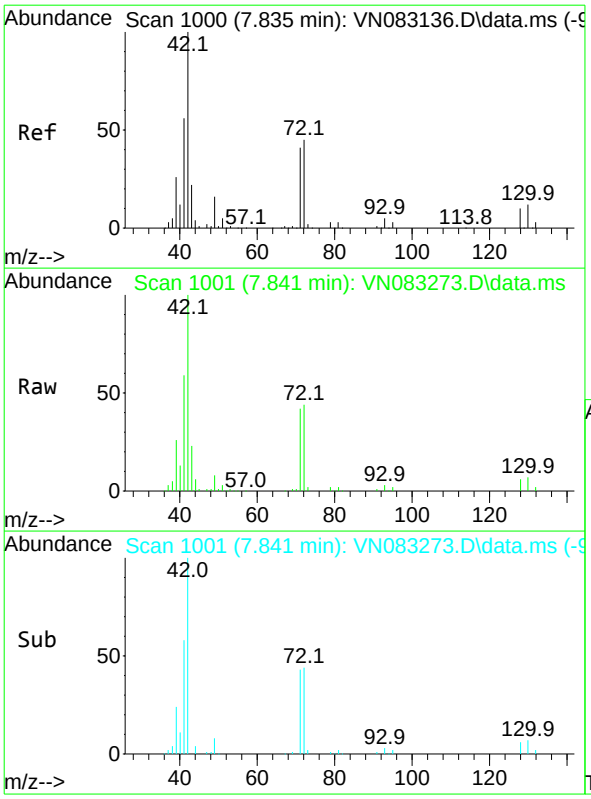


#28
Bromochloromethane
Concen: 48.079 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 49 Resp: 73126

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	74.2	50.5	75.7

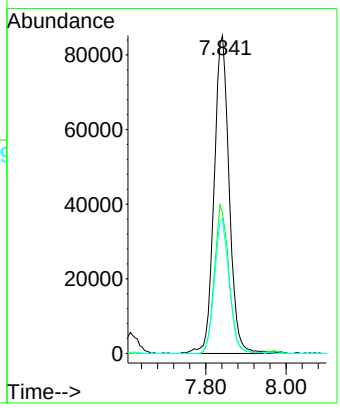




#29
Tetrahydrofuran
Concen: 231.937 ug/l
RT: 7.841 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 42 Resp: 222339

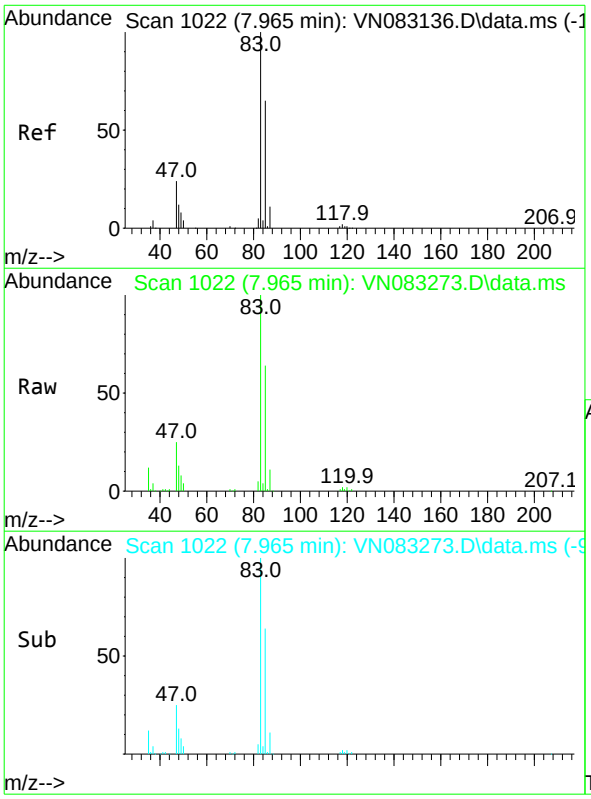
Ion	Ratio	Lower	Upper
42	100		
72	44.7	30.0	45.0
71	41.5	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

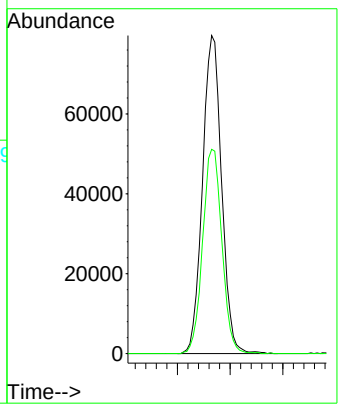
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

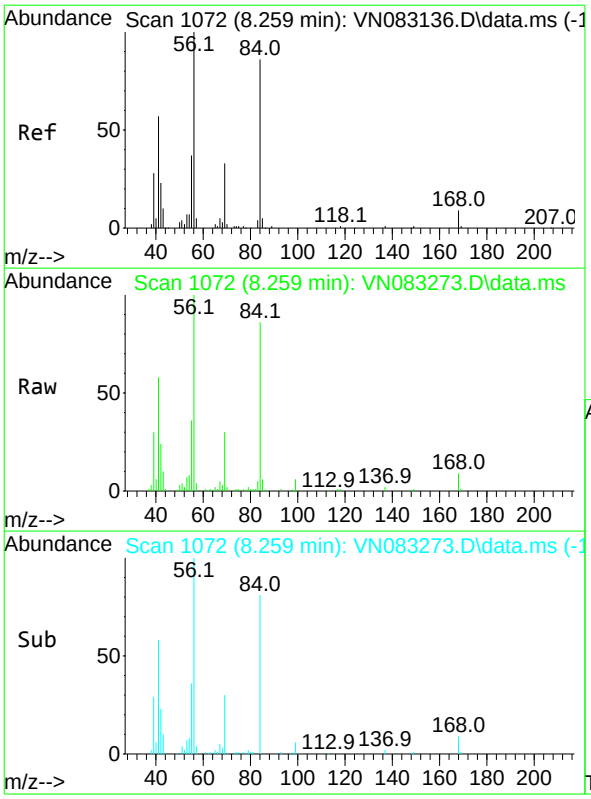


#30
Chloroform
Concen: 51.757 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 83 Resp: 200122

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.9	76.3

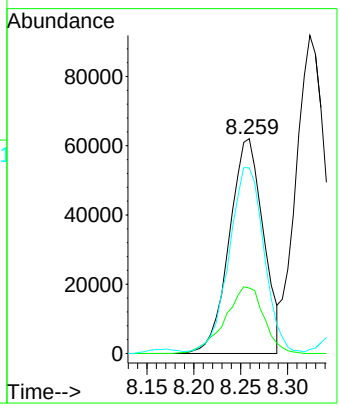




#31
Cyclohexane
Concen: 42.764 ug/l
RT: 8.259 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 56 Resp: 156417

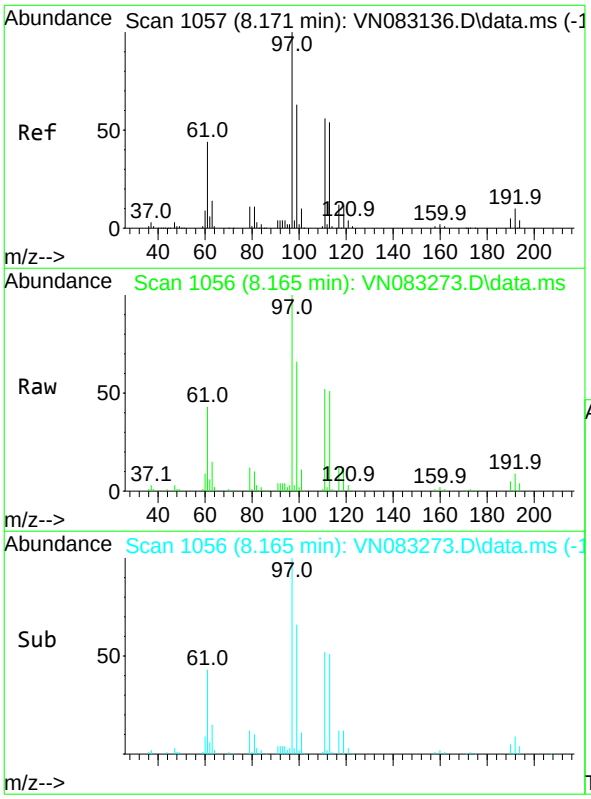
Ion	Ratio	Lower	Upper
56	100		
69	30.2	24.5	36.7
84	85.0	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

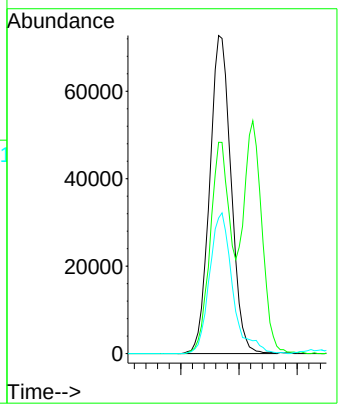
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

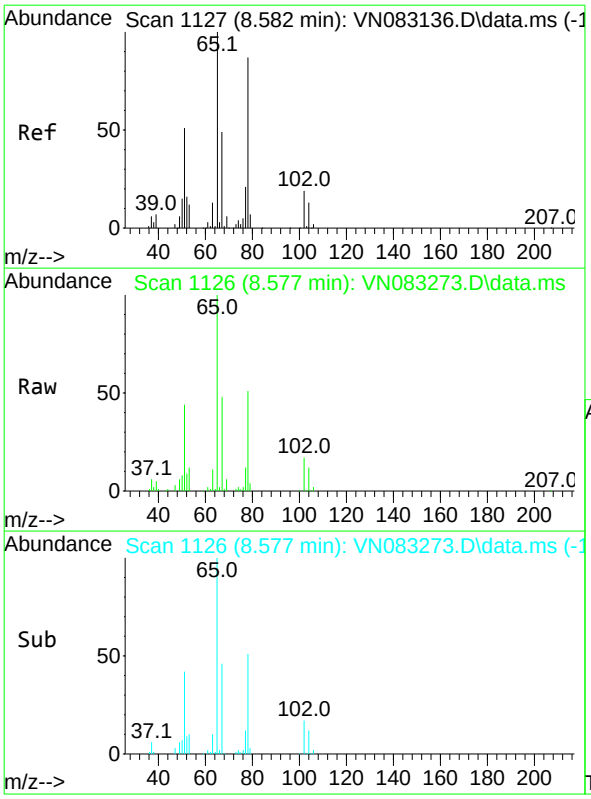


#32
1,1,1-Trichloroethane
Concen: 50.731 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 97 Resp: 185672

Ion	Ratio	Lower	Upper
97	100		
99	63.1	52.0	78.0
61	47.8	42.1	63.1

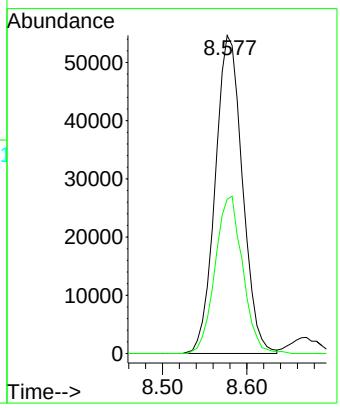




#33
1,2-Dichloroethane-d4
Concen: 49.638 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 65 Resp: 122516

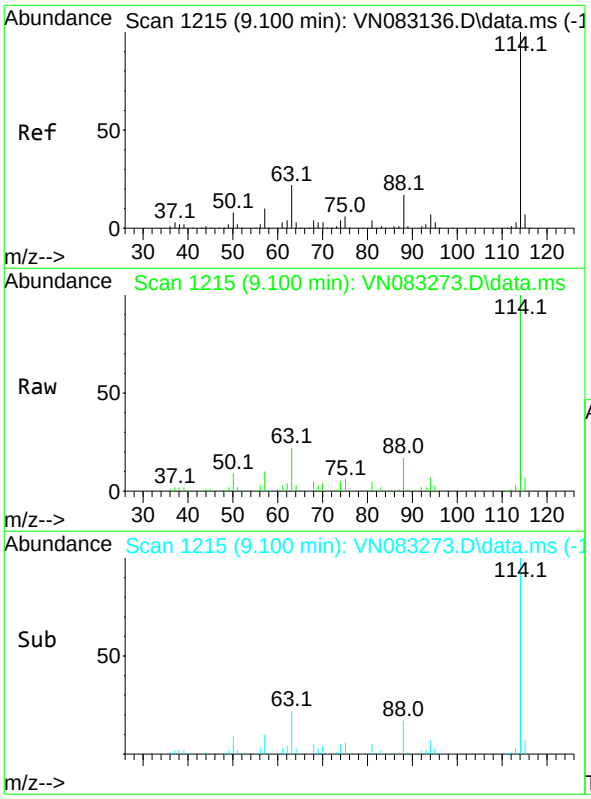
Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

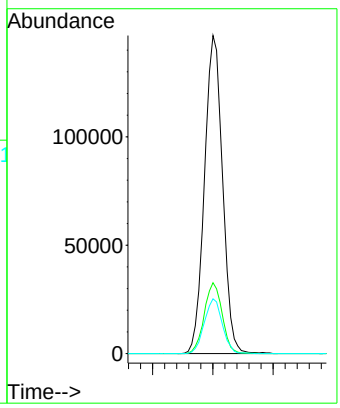
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

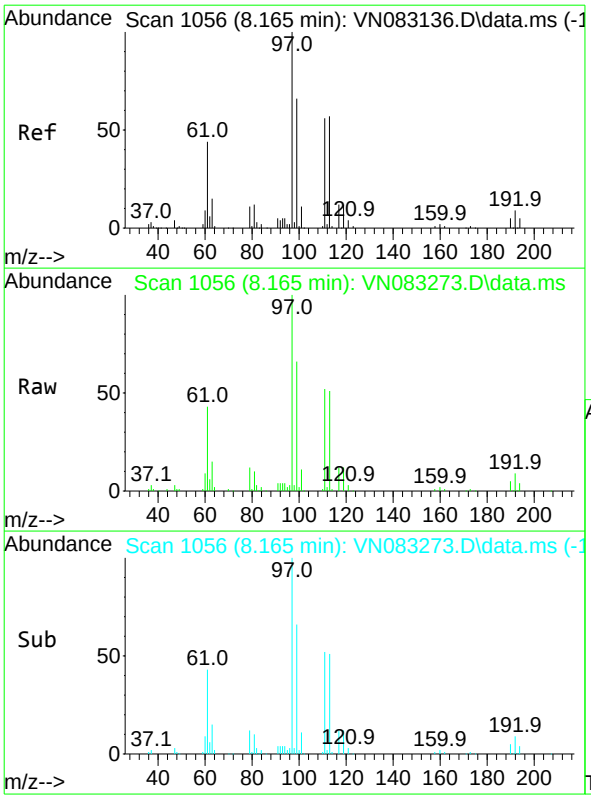


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:114 Resp: 306155

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.6
88	17.2	0.0	31.4

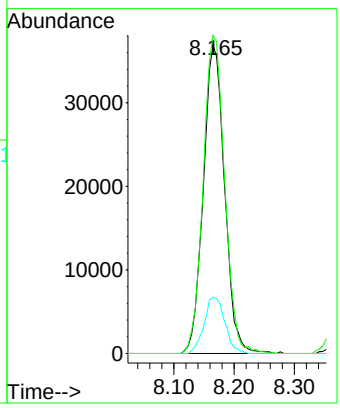




#35
Dibromofluoromethane
Concen: 47.268 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:113 Resp: 90327

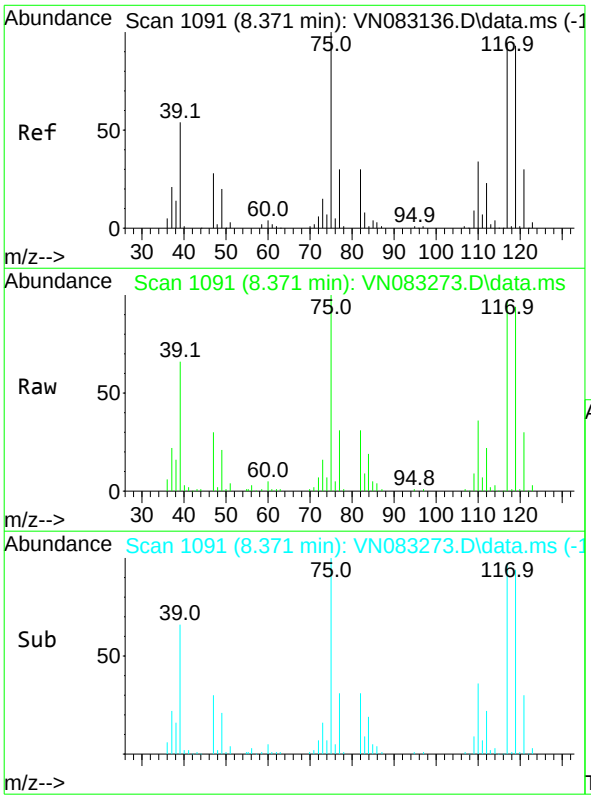
Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.4	123.6
192	17.8	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

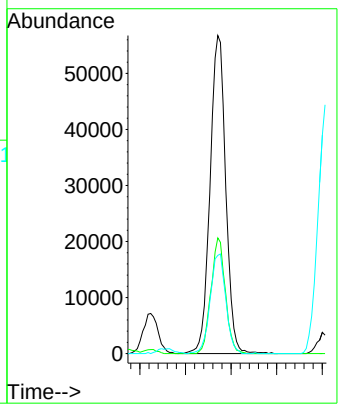
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

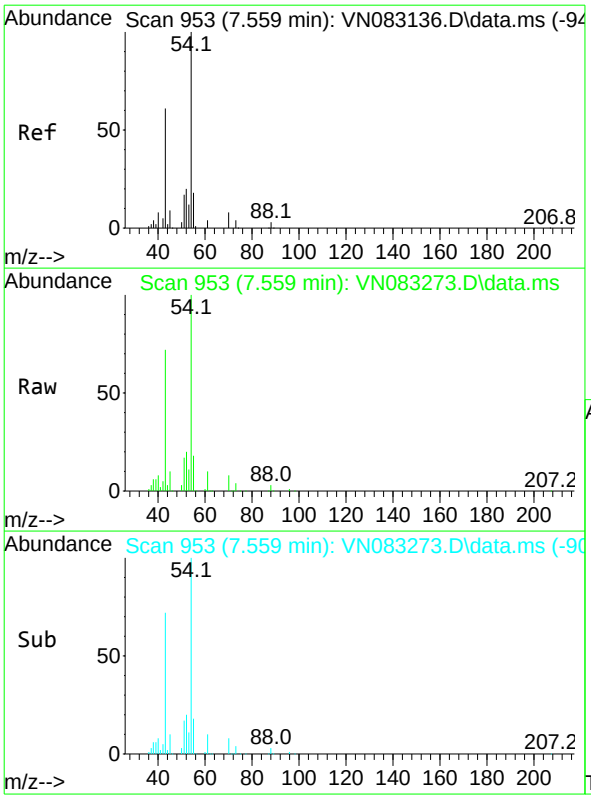


#36
1,1-Dichloropropene
Concen: 46.925 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 75 Resp: 135648

Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.3	48.9
77	31.1	24.6	37.0

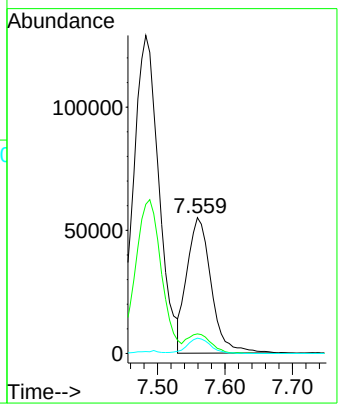




#37
Ethyl Acetate
Concen: 42.466 ug/l
RT: 7.559 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 43 Resp: 137449

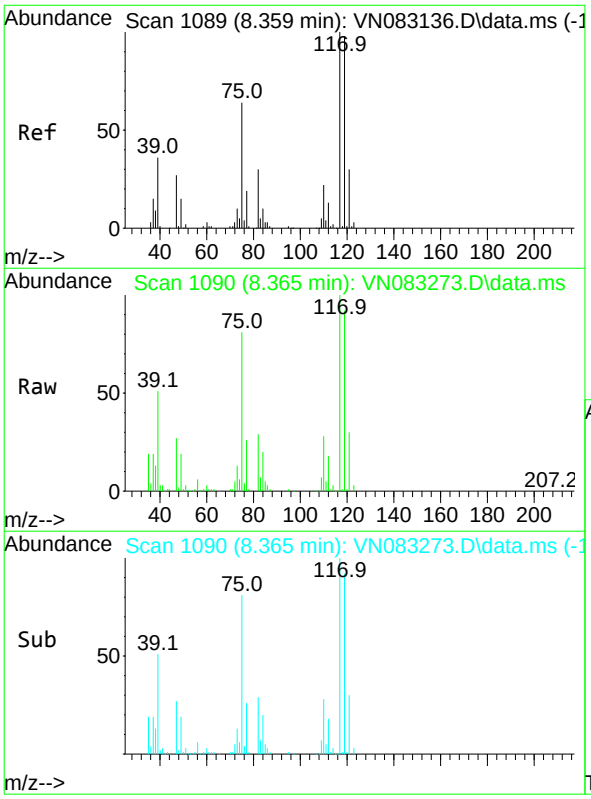
Ion	Ratio	Lower	Upper
43	100		
61	14.5	9.3	13.9#
70	10.9	7.0	10.6#



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

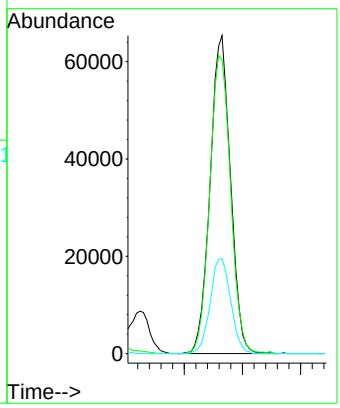
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

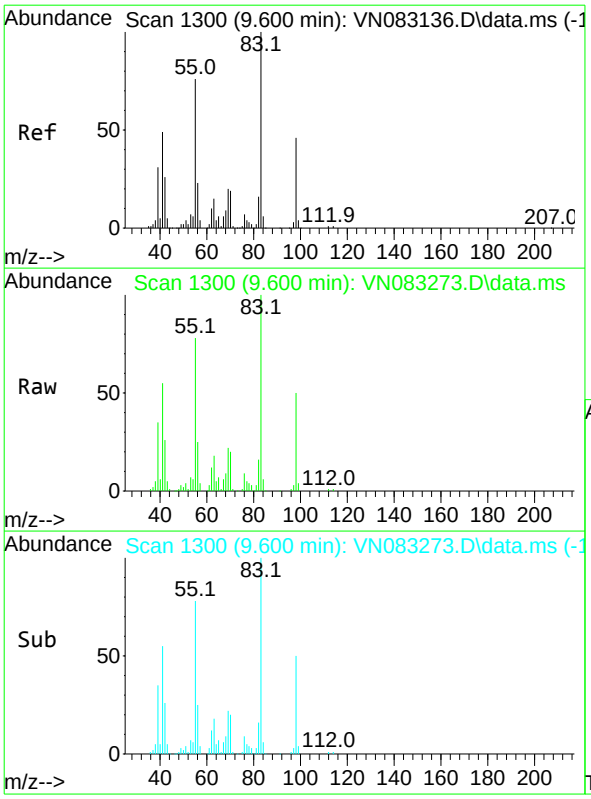


#38
Carbon Tetrachloride
Concen: 48.876 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:117 Resp: 159134

Ion	Ratio	Lower	Upper
117	100		
119	92.3	74.9	112.3
121	29.9	24.3	36.5

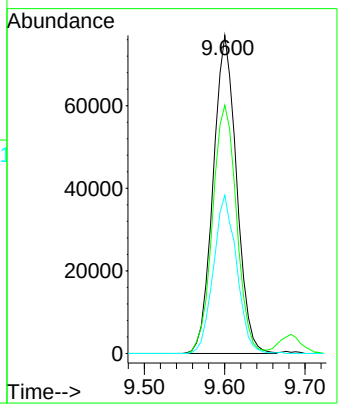




#39
Methylcyclohexane
Concen: 43.916 ug/l
RT: 9.600 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 83 Resp: 155926

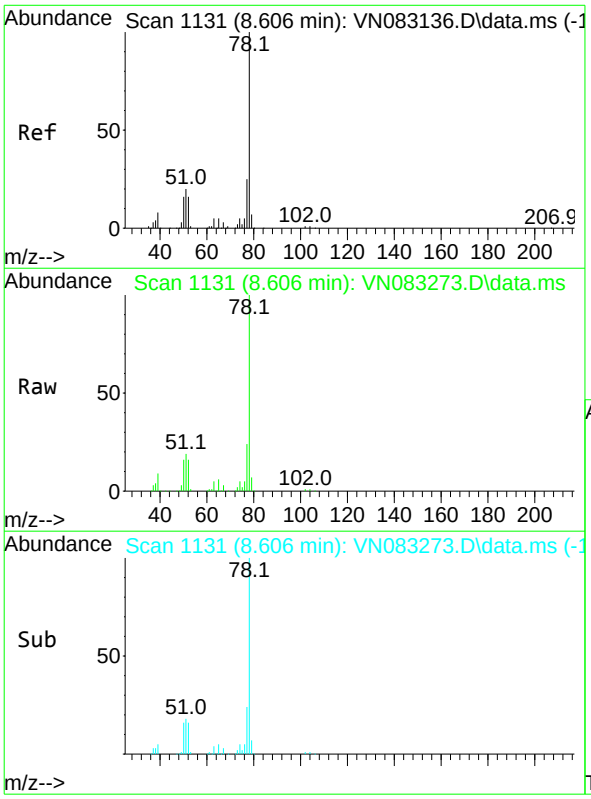
Ion	Ratio	Lower	Upper
83	100		
55	78.1	66.4	99.6
98	49.8	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

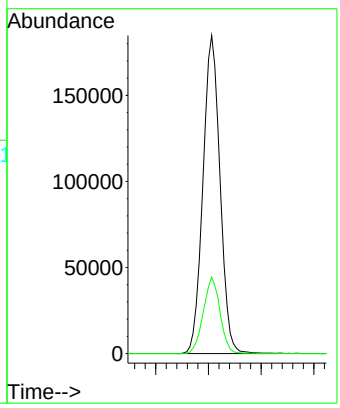
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

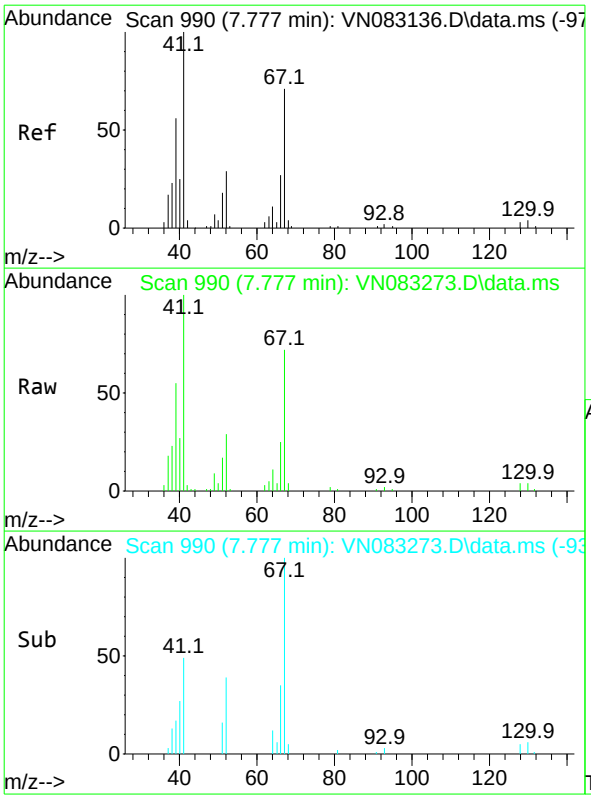


#40
Benzene
Concen: 48.285 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 78 Resp: 415815

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.4

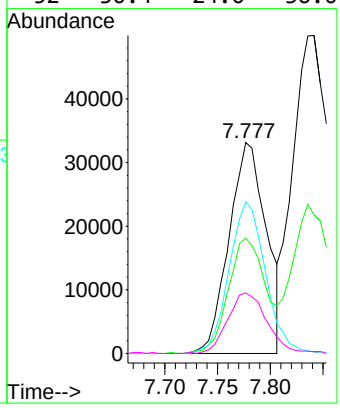




#41
Methacrylonitrile
Concen: 44.240 ug/l
RT: 7.777 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

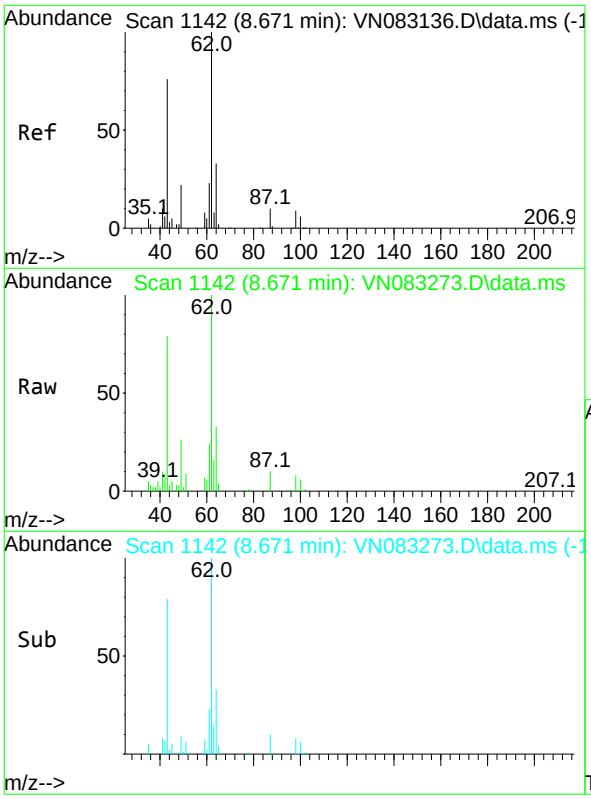
Tgt Ion: 41 Resp: 81416

Ion	Ratio	Lower	Upper
41	100		
39	54.9	45.5	68.3
67	70.3	50.5	75.7
52	30.4	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

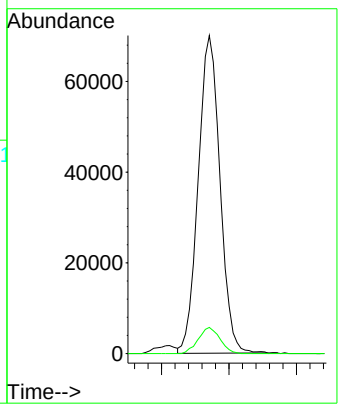
Manual Integrations APPROVED
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

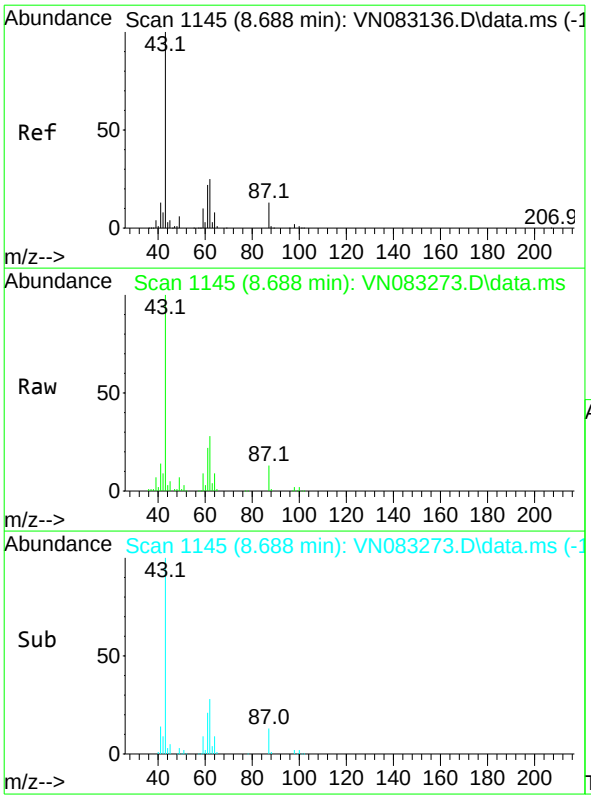


#42
1,2-Dichloroethane
Concen: 49.978 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 62 Resp: 156783

Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	15.8

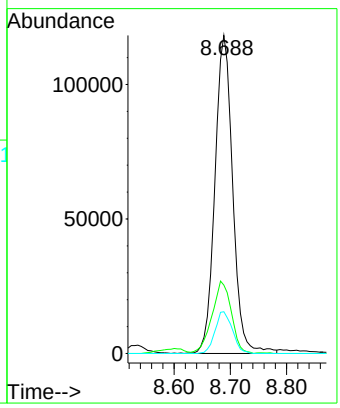




#43
Isopropyl Acetate
Concen: 46.121 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 43 Resp: 260306

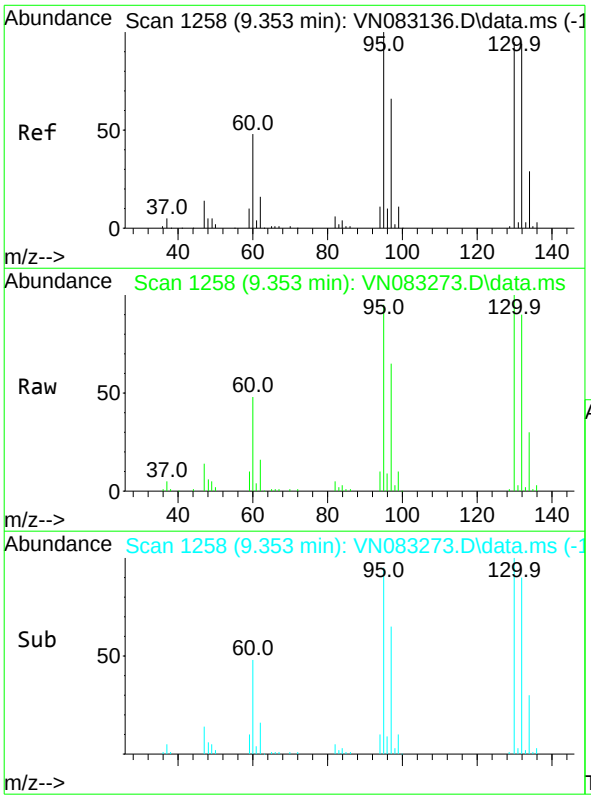
Ion	Ratio	Lower	Upper
43	100		
61	24.7	17.8	26.6
87	12.7	8.2	12.2#



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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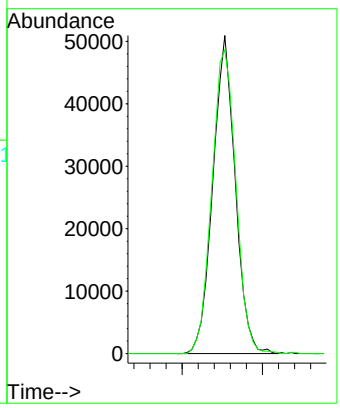
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

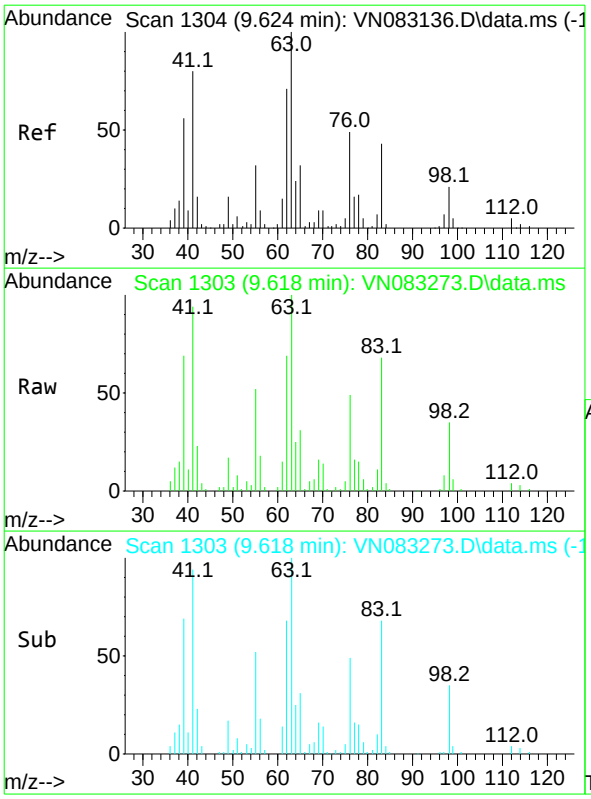


#44
Trichloroethene
Concen: 48.013 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:130 Resp: 98415

Ion	Ratio	Lower	Upper
130	100		
95	95.4	0.0	197.8

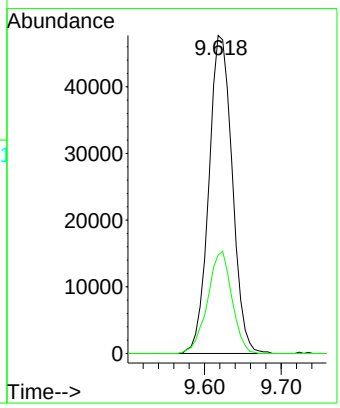




#45
1,2-Dichloropropane
Concen: 49.443 ug/l
RT: 9.618 min Scan# 13
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 63 Resp: 101068

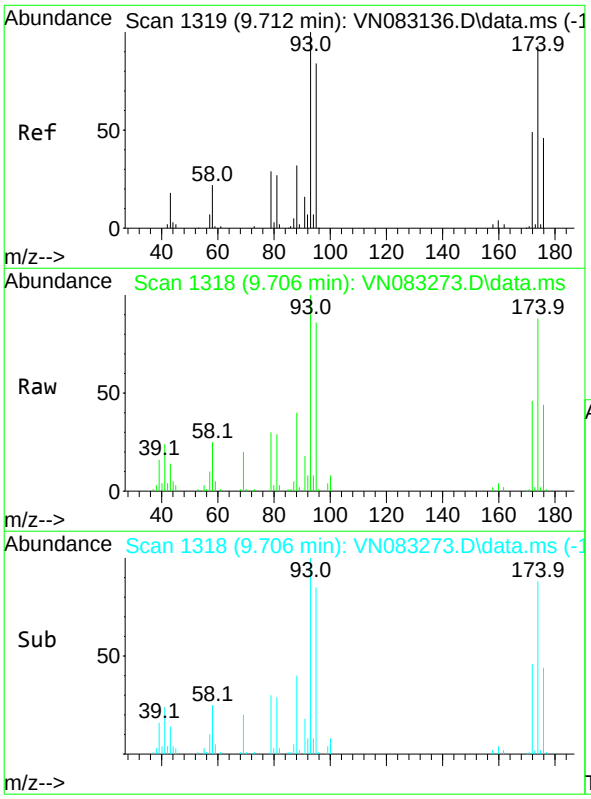
Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

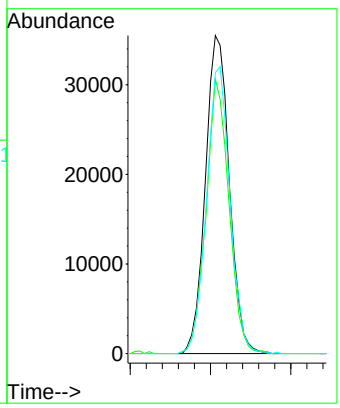
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

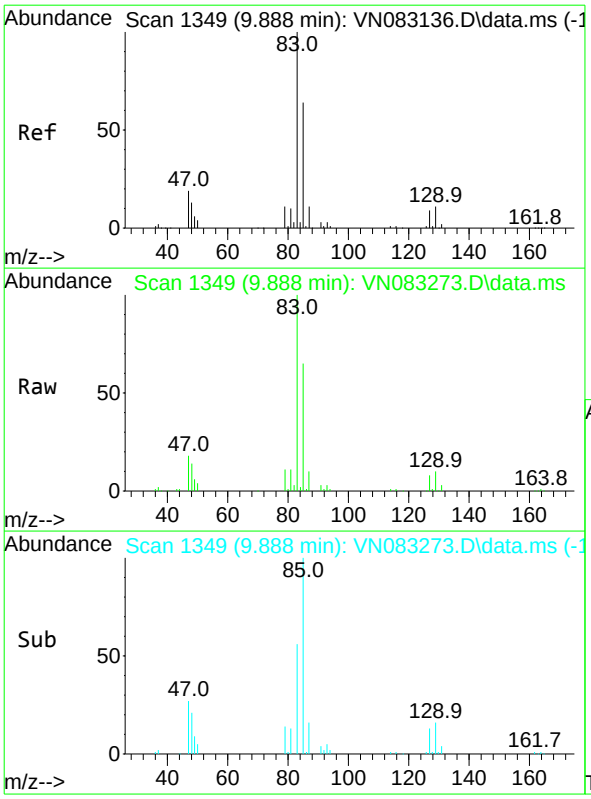


#46
Dibromomethane
Concen: 50.307 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 93 Resp: 73606

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.8	98.6
174	88.8	71.7	107.5

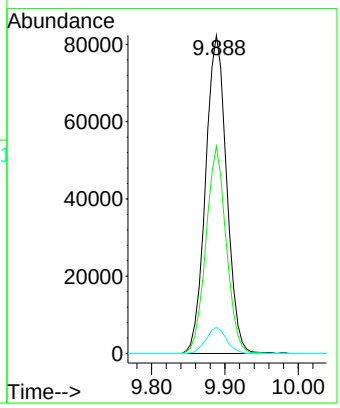




#47
Bromodichloromethane
Concen: 49.897 ug/l
RT: 9.888 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

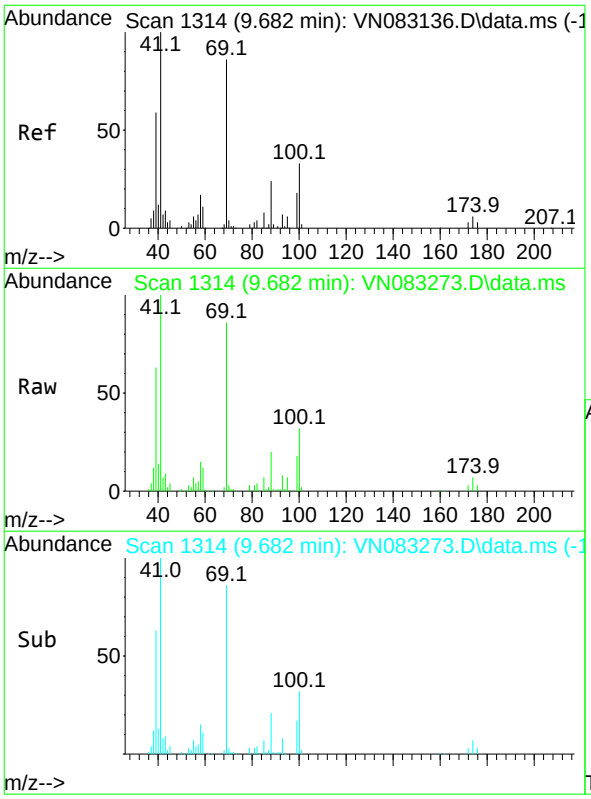
Tgt Ion: 83 Resp: 163926

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.1	76.7
127	8.2	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

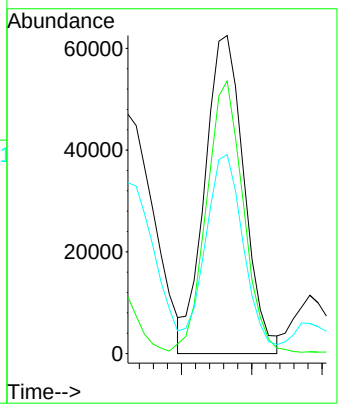
Manual Integrations APPROVED
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

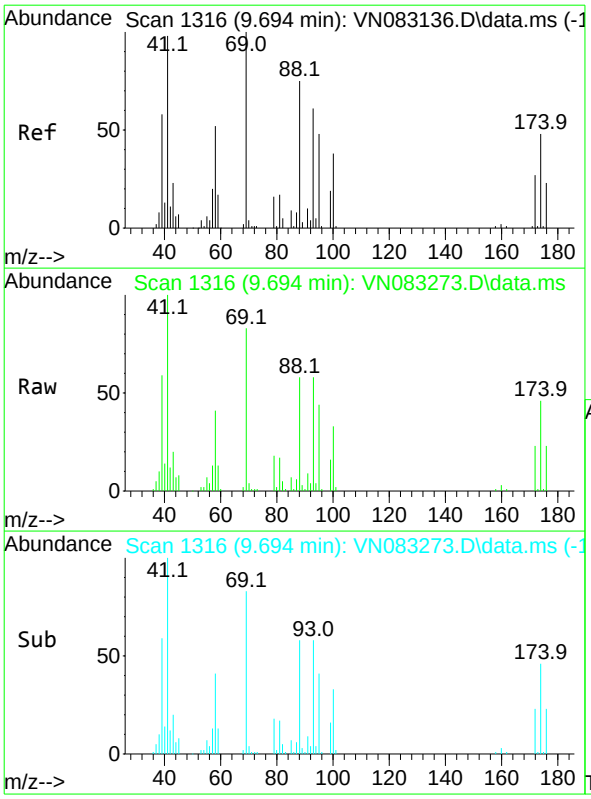


#48
Methyl methacrylate
Concen: 45.281 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 41 Resp: 121167

Ion	Ratio	Lower	Upper
41	100		
69	81.0	56.3	84.5
39	61.9	50.3	75.5

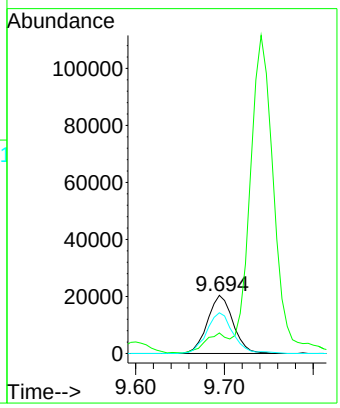




#49
1,4-Dioxane
Concen: 842.987 ug/l
RT: 9.694 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

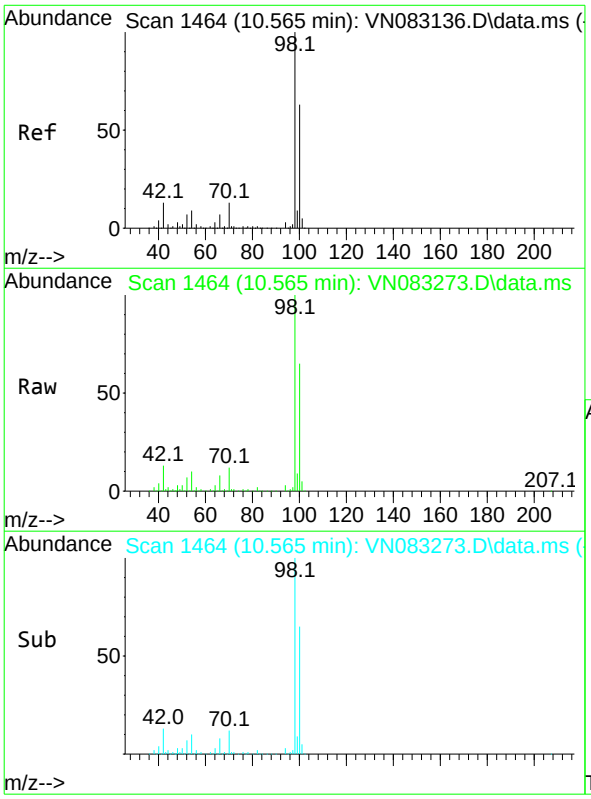
Tgt Ion: 88 Resp: 40696

Ion	Ratio	Lower	Upper
88	100		
43	31.1	27.8	41.8
58	72.6	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

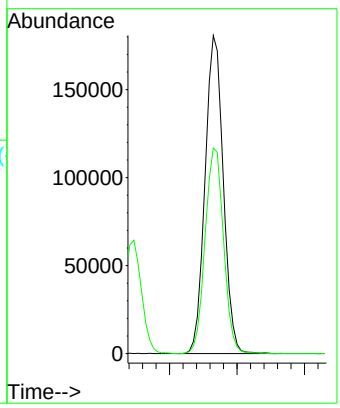
Manual Integrations APPROVED
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

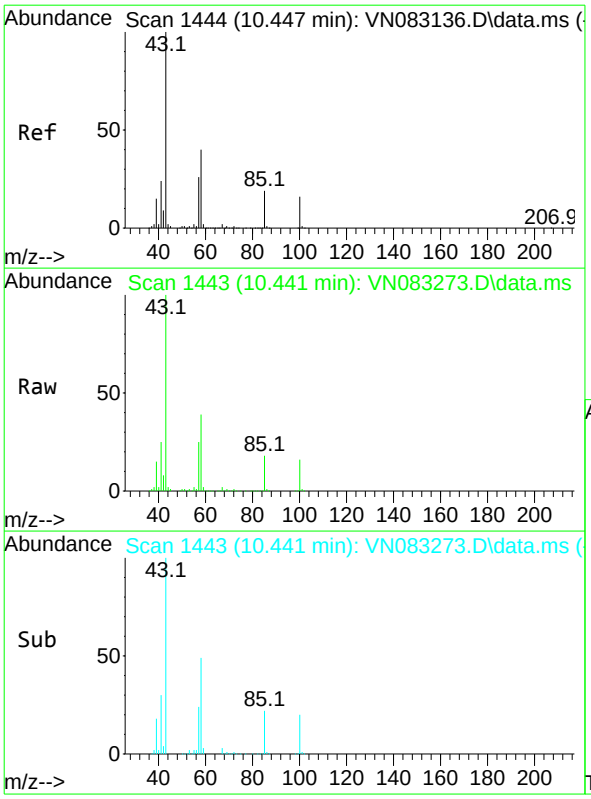


#50
Toluene-d8
Concen: 47.549 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 98 Resp: 338943

Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.5	77.3

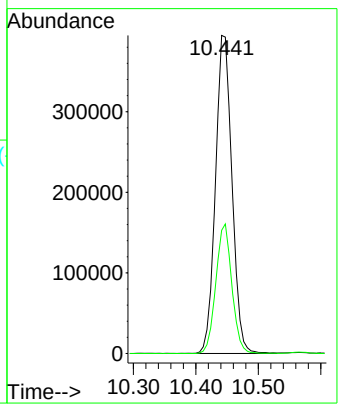




#51
4-Methyl-2-Pentanone
Concen: 236.978 ug/l
RT: 10.441 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 43 Resp: 725322

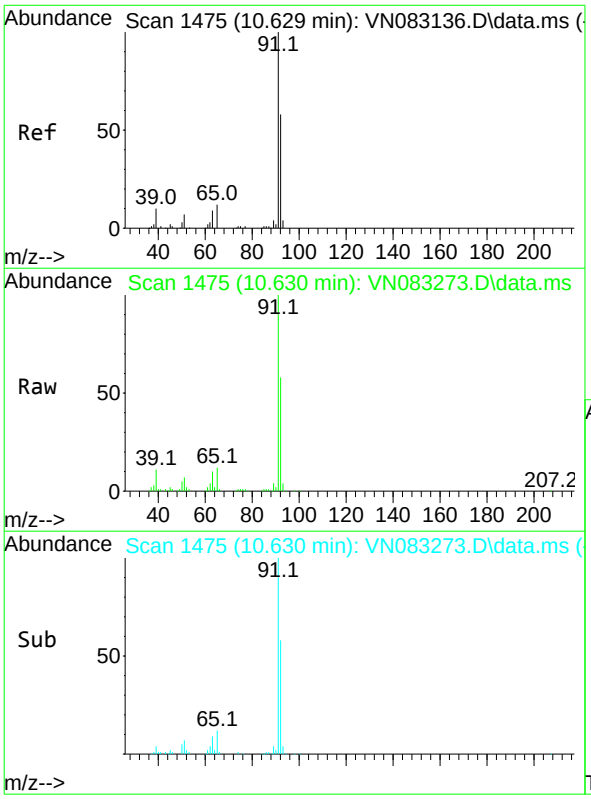
Ion	Ratio	Lower	Upper
43	100		
58	39.5	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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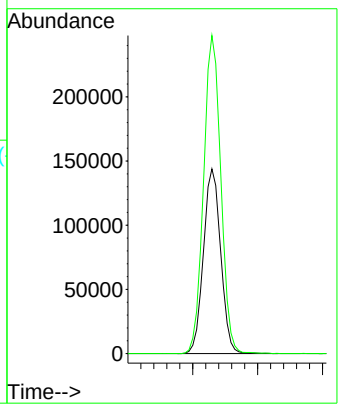
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

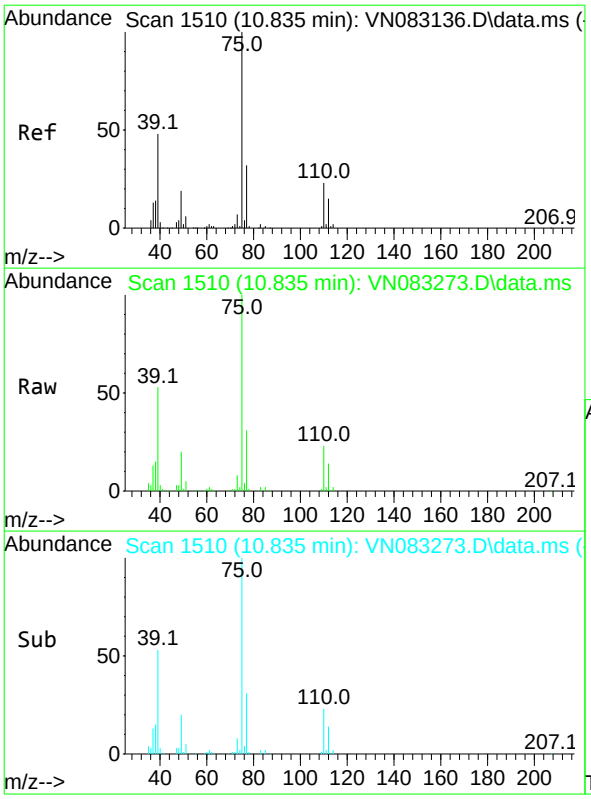


#52
Toluene
Concen: 48.733 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 92 Resp: 265163

Ion	Ratio	Lower	Upper
92	100		
91	172.6	139.4	209.0

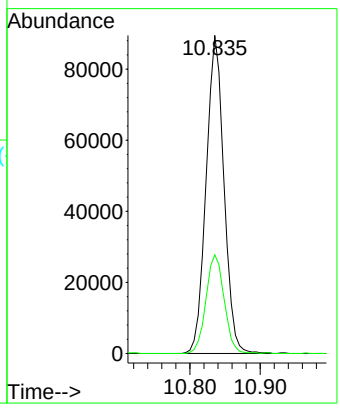




#53
t-1,3-Dichloropropene
Concen: 46.629 ug/l
RT: 10.835 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 75 Resp: 157356

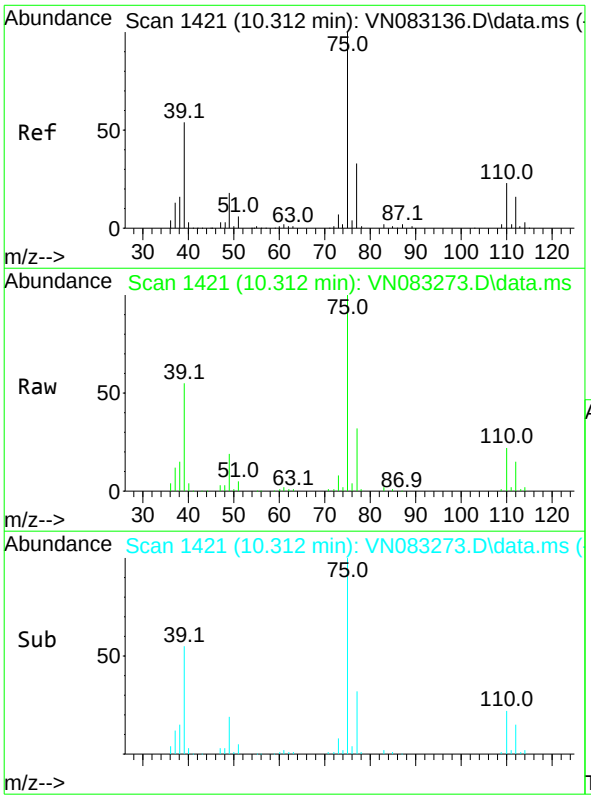
Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

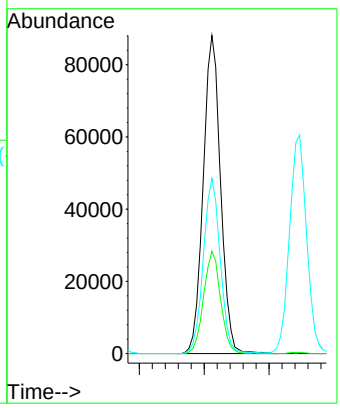
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

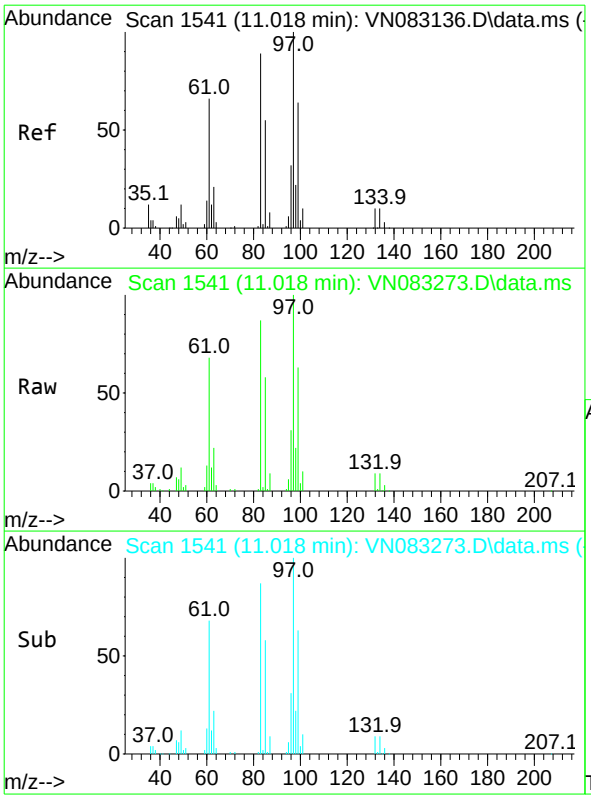


#54
cis-1,3-Dichloropropene
Concen: 45.600 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 75 Resp: 163678

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.3	36.5
39	55.1	50.5	75.7

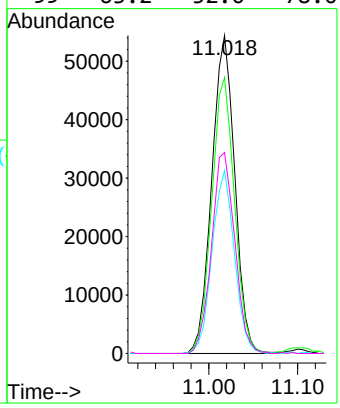




#55
1,1,2-Trichloroethane
Concen: 50.194 ug/l
RT: 11.018 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 97 Resp: 97875

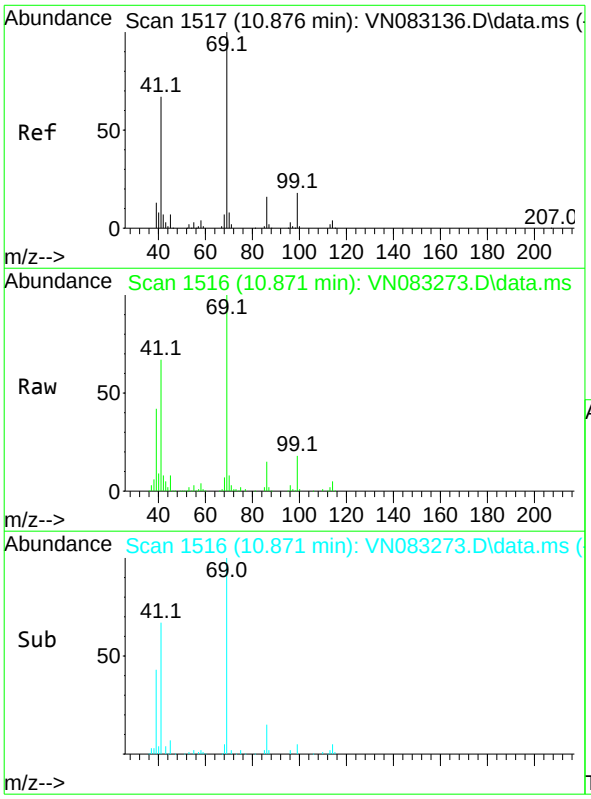
Ion	Ratio	Lower	Upper
97	100		
83	86.7	71.4	107.0
85	57.5	45.8	68.6
99	63.2	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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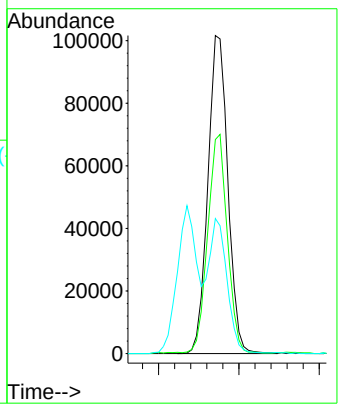
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

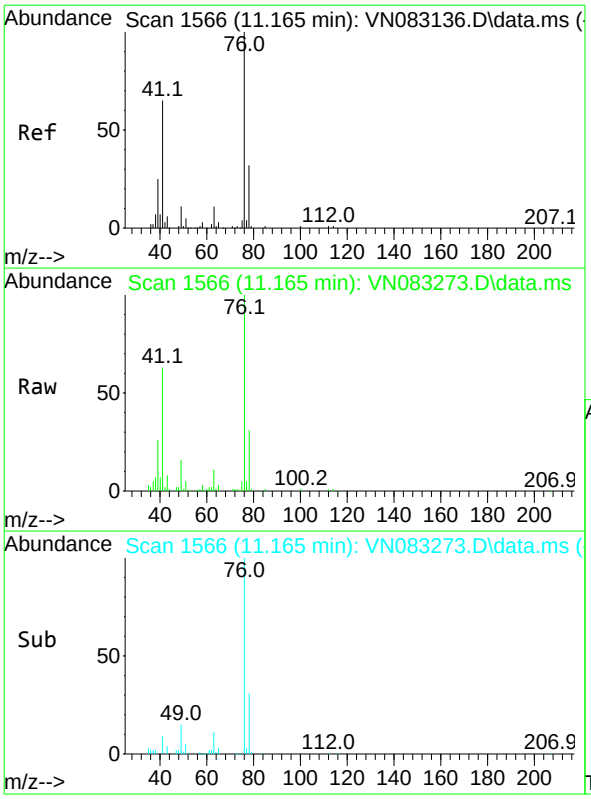


#56
Ethyl methacrylate
Concen: 47.798 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 69 Resp: 175704

Ion	Ratio	Lower	Upper
69	100		
41	67.4	63.4	95.2
39	39.9	37.4	56.0

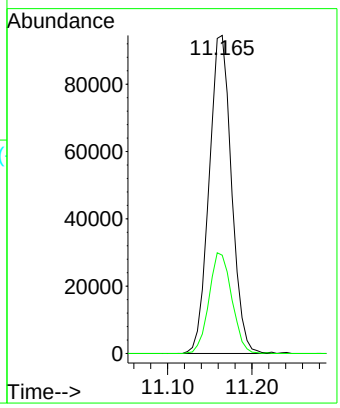




#57
1,3-Dichloropropane
Concen: 50.099 ug/l
RT: 11.165 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 76 Resp: 174124

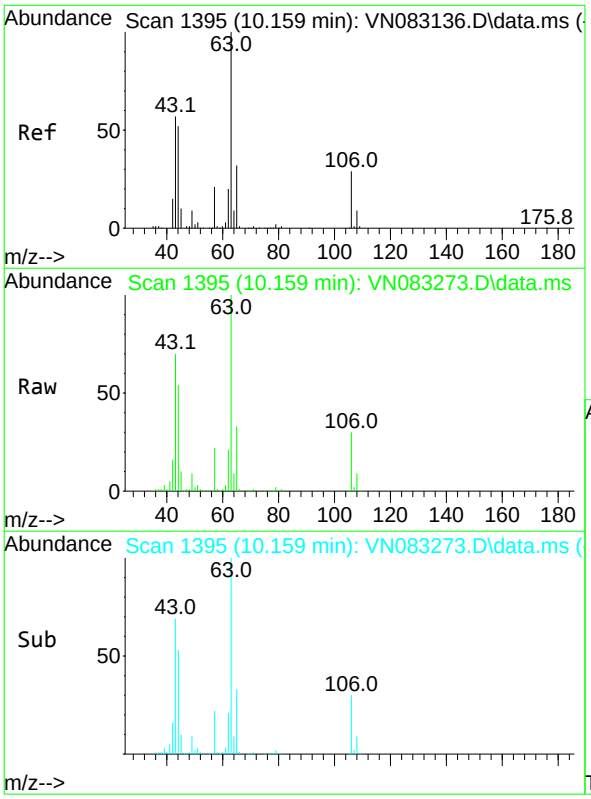
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

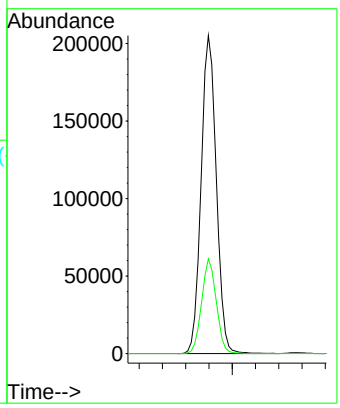
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

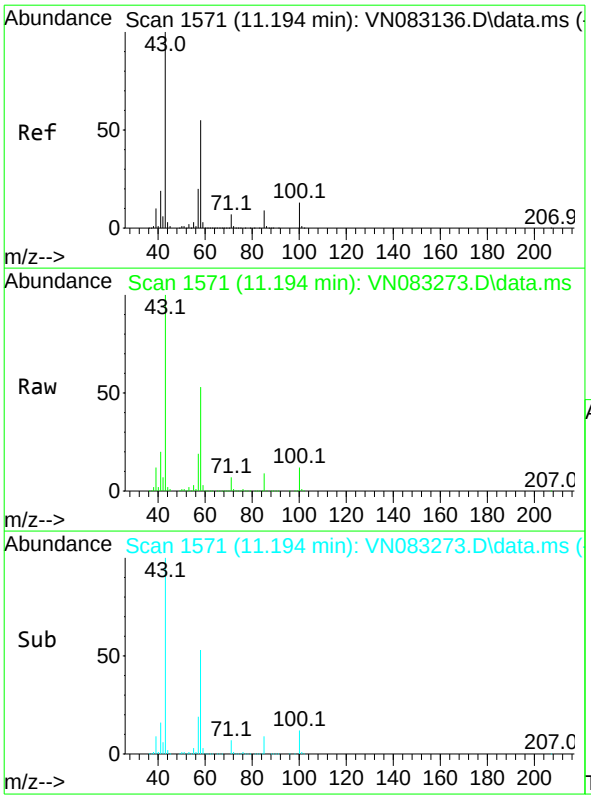


#58
2-Chloroethyl Vinyl ether
Concen: 239.532 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 63 Resp: 372196

Ion	Ratio	Lower	Upper
63	100		
106	28.6	21.4	32.0

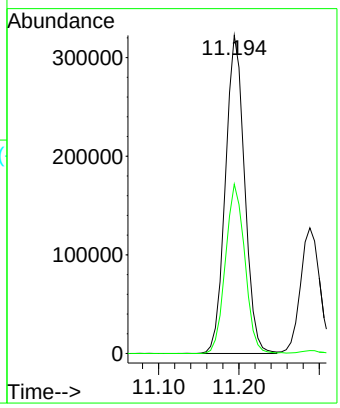




#59
2-Hexanone
Concen: 226.034 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 43 Resp: 535223

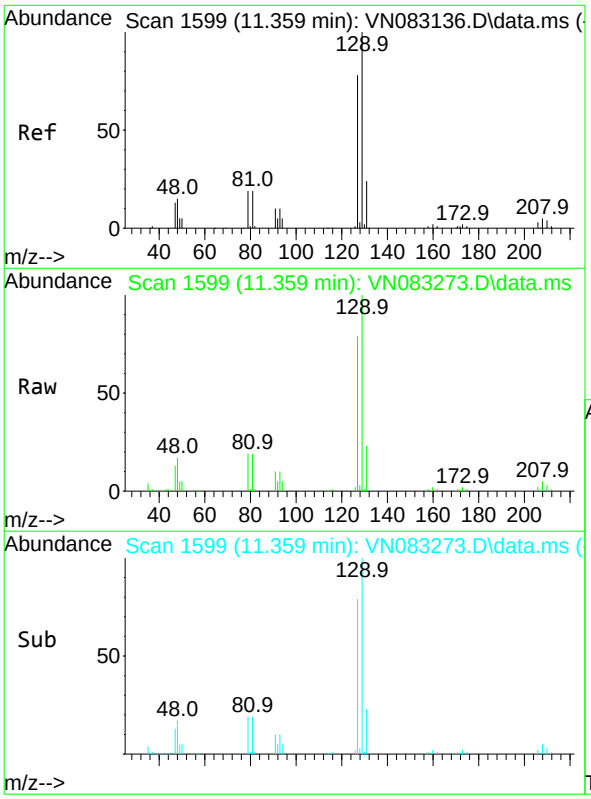
Ion	Ratio	Lower	Upper
43	100		
58	53.7	24.6	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

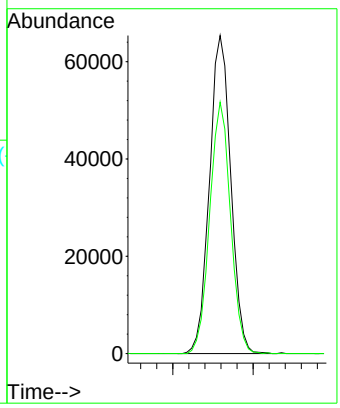
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

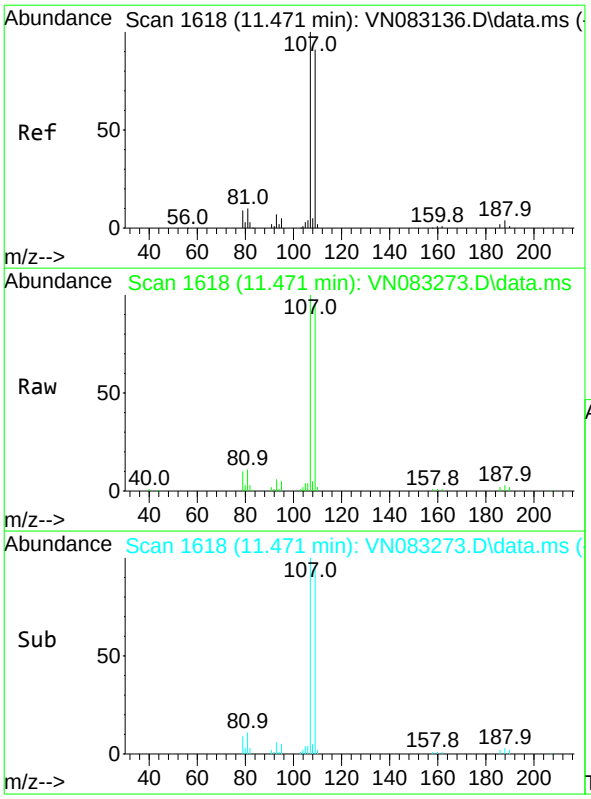


#60
Dibromochloromethane
Concen: 51.173 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:129 Resp: 120644

Ion	Ratio	Lower	Upper
129	100		
127	77.1	39.2	117.6

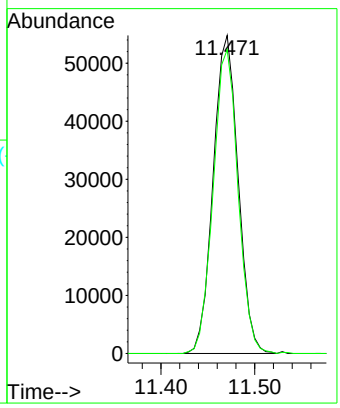




#61
1,2-Dibromoethane
Concen: 49.436 ug/l
RT: 11.471 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:107 Resp: 101266

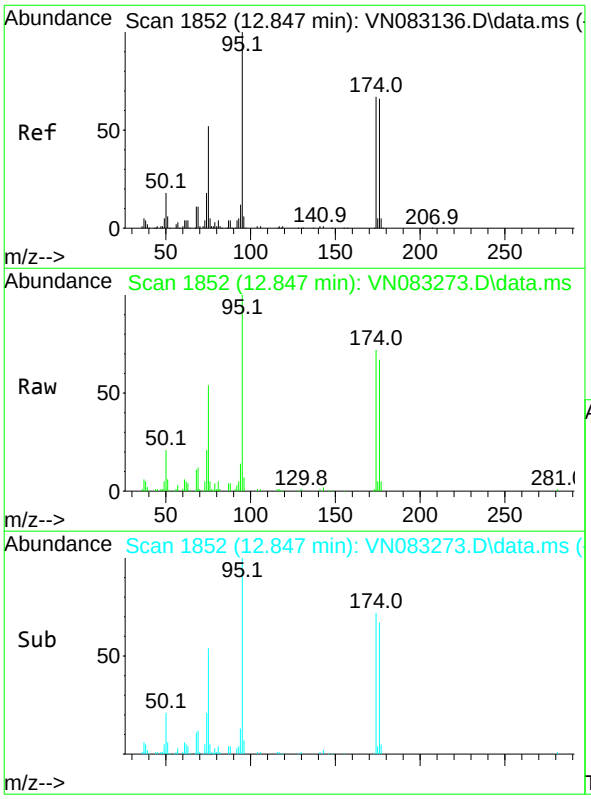
Ion	Ratio	Lower	Upper
107	100		
109	95.0	73.7	110.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

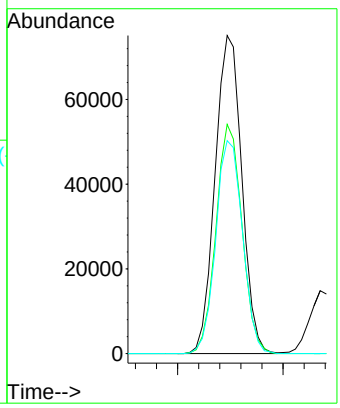
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

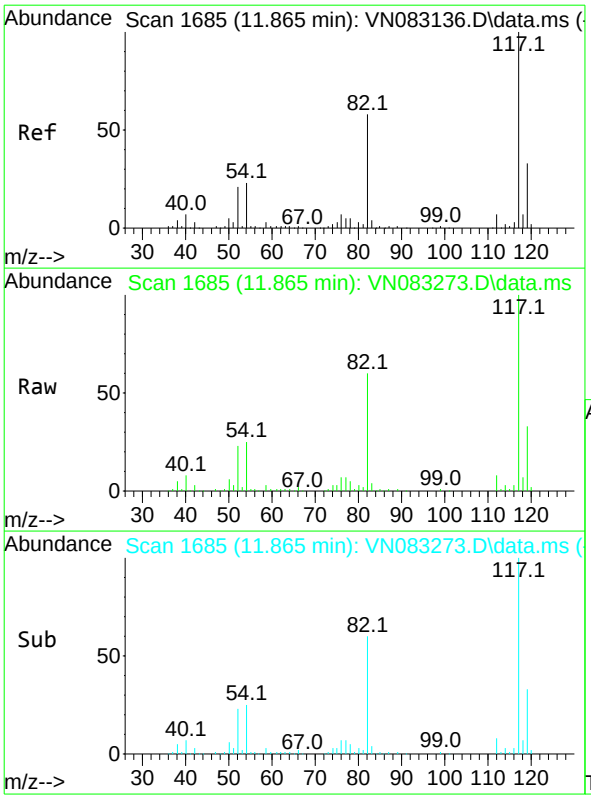


#62
4-Bromofluorobenzene
Concen: 47.580 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 95 Resp: 132226

Ion	Ratio	Lower	Upper
95	100		
174	70.0	0.0	159.2
176	67.0	0.0	147.6

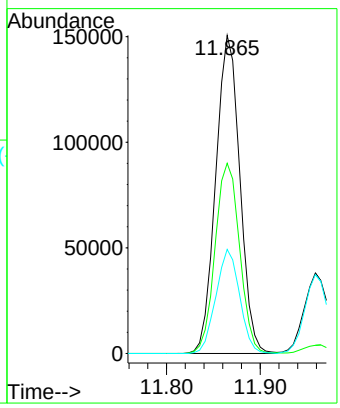




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:117 Resp: 269814

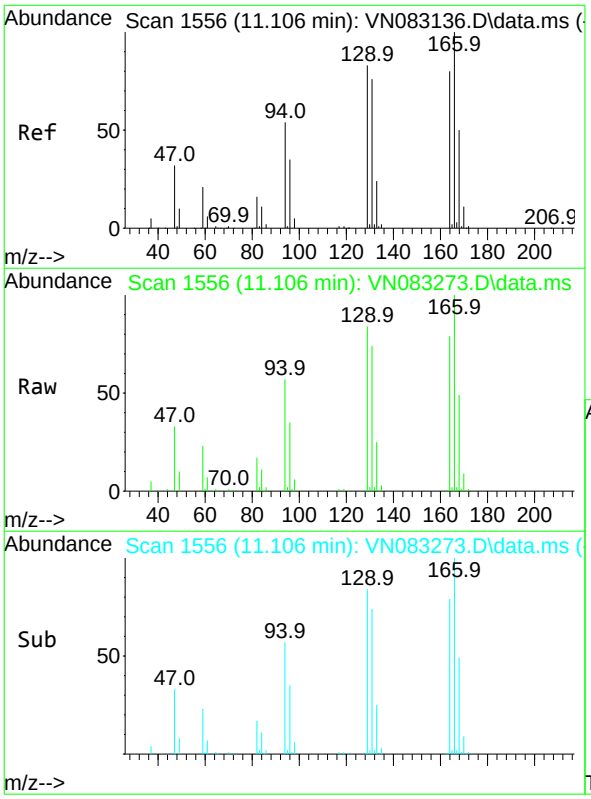
Ion	Ratio	Lower	Upper
117	100		
82	59.8	47.5	71.3
119	32.7	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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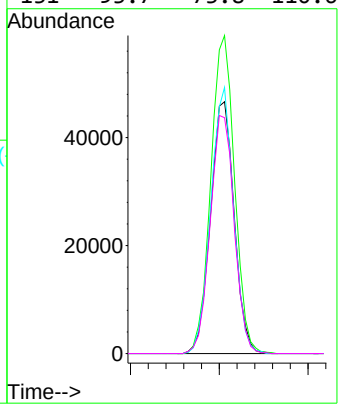
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

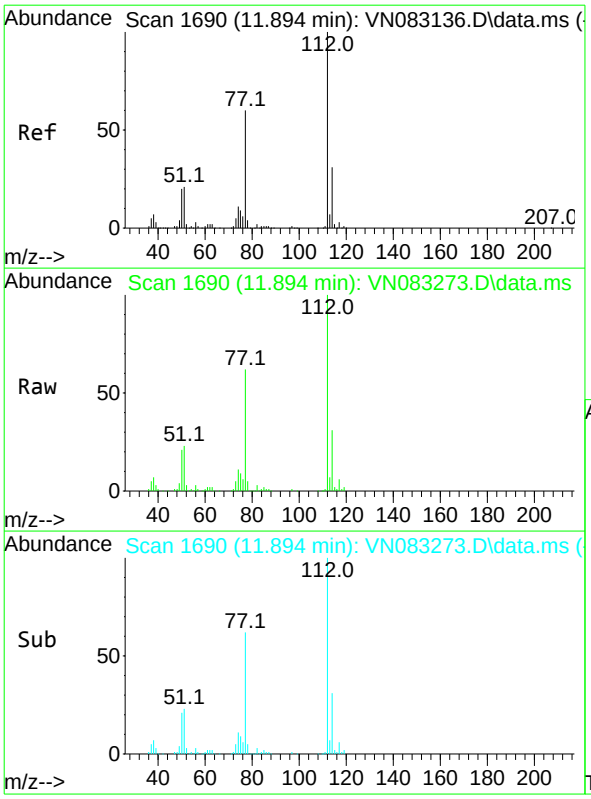


#64
Tetrachloroethene
Concen: 48.491 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:164 Resp: 86650

Ion	Ratio	Lower	Upper
164	100		
166	126.3	101.4	152.0
129	105.7	75.7	113.5
131	93.7	73.8	110.6

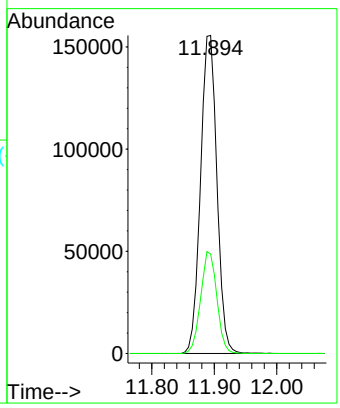




#65
Chlorobenzene
Concen: 47.539 ug/l
RT: 11.894 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:112 Resp: 283451

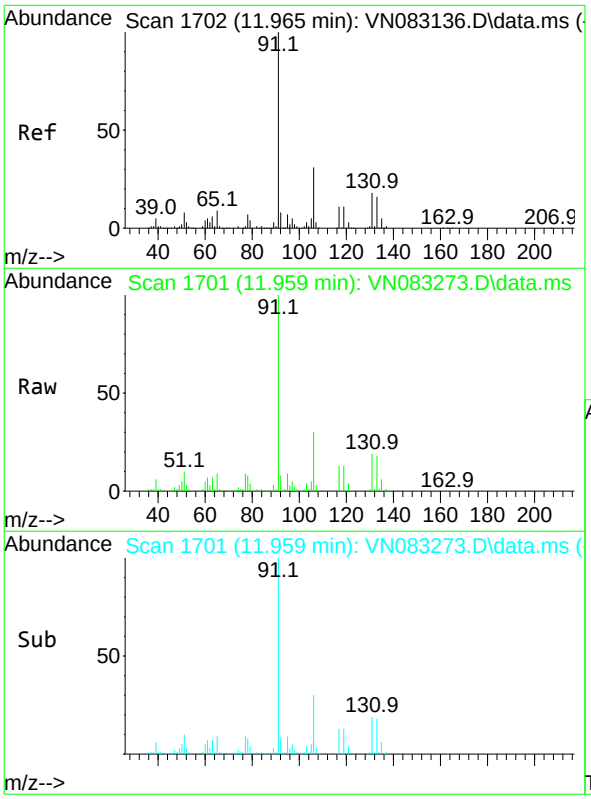
Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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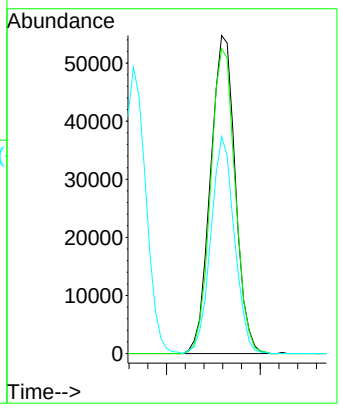
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

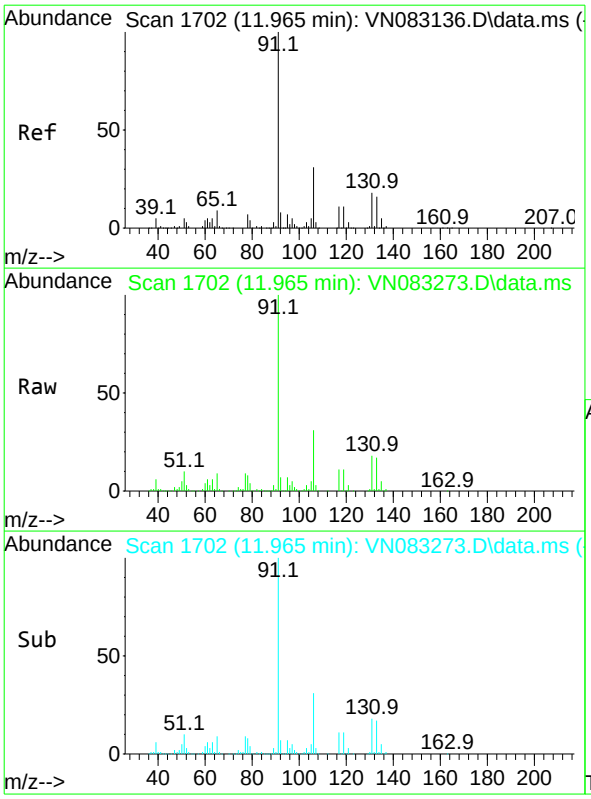


#66
1,1,1,2-Tetrachloroethane
Concen: 47.857 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:131 Resp: 100637

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.3	142.0
119	64.6	32.5	97.4

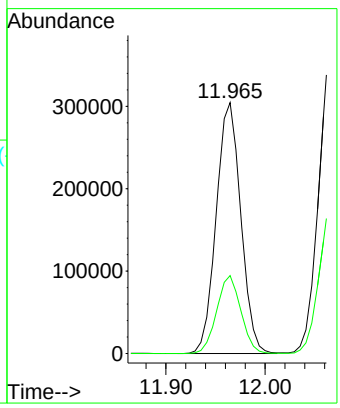




#67
Ethyl Benzene
Concen: 47.941 ug/l
RT: 11.965 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 91 Resp: 524382

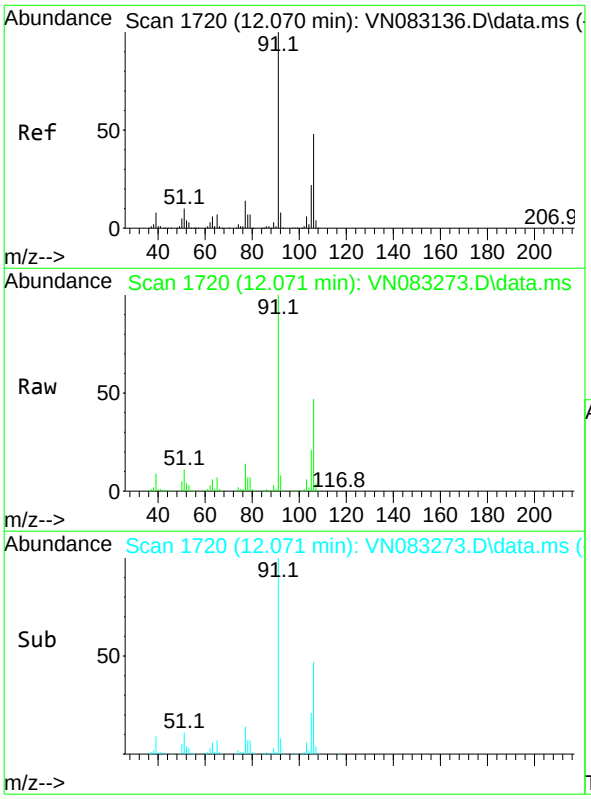
Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

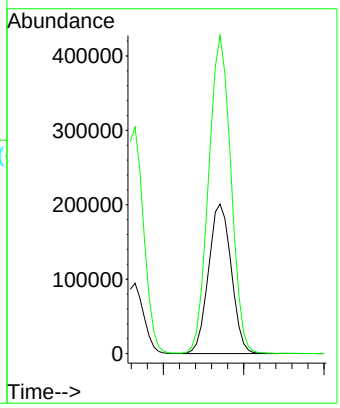
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

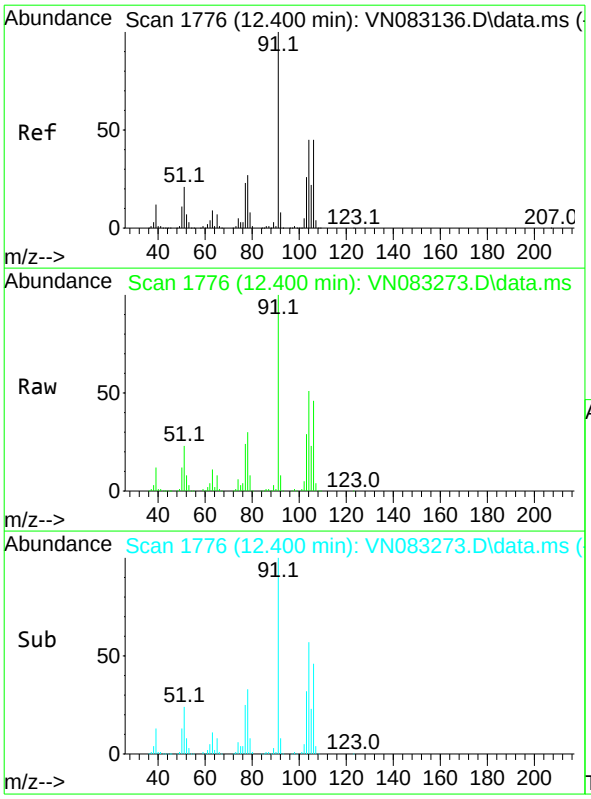


#68
m/p-Xylenes
Concen: 96.479 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:106 Resp: 395309

Ion	Ratio	Lower	Upper
106	100		
91	208.8	166.1	249.1

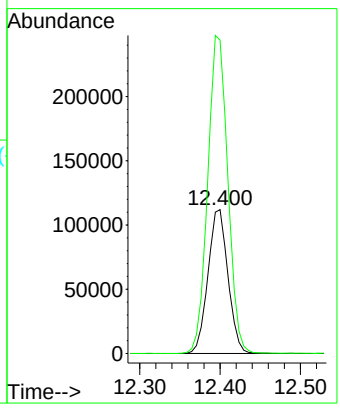




#69
o-Xylene
Concen: 47.948 ug/l
RT: 12.400 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:106 Resp: 193761

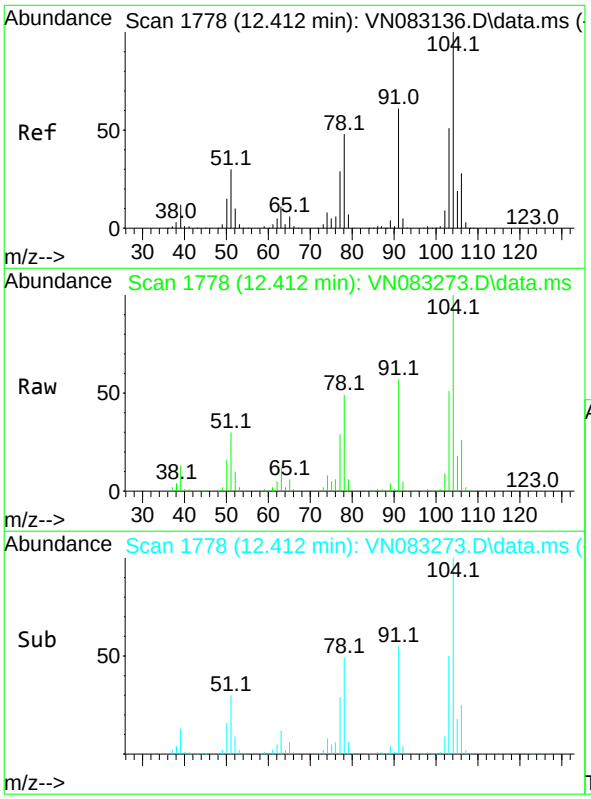
Ion	Ratio	Lower	Upper
106	100		
91	222.0	111.3	333.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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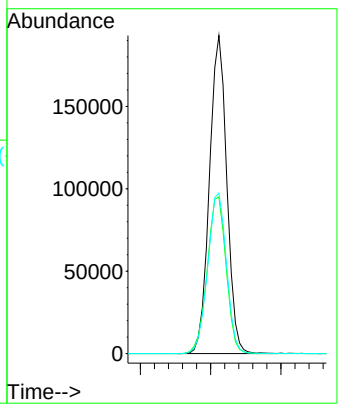
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

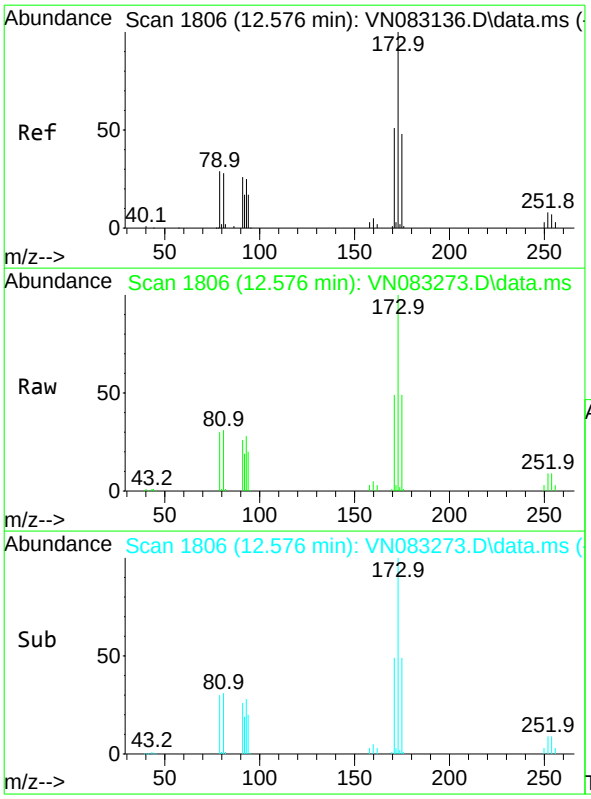


#70
Styrene
Concen: 48.825 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:104 Resp: 331385

Ion	Ratio	Lower	Upper
104	100		
78	53.6	41.6	62.4
103	54.5	44.0	66.0

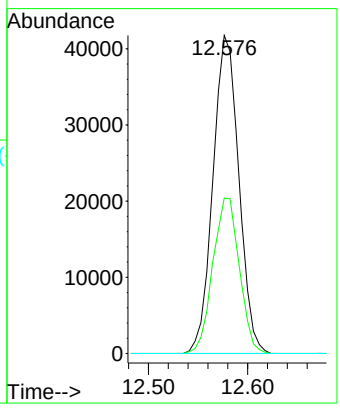




#71
Bromoform
Concen: 47.541 ug/l
RT: 12.576 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:173 Resp: 75736

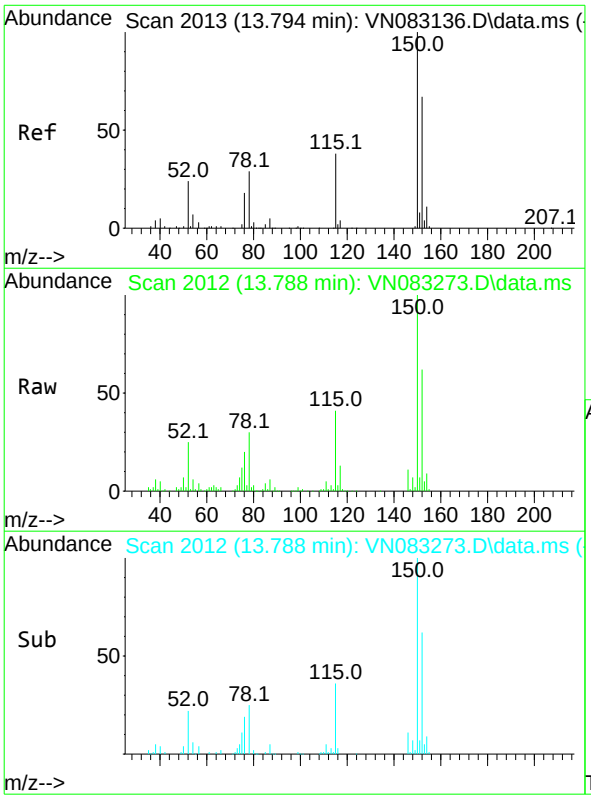
Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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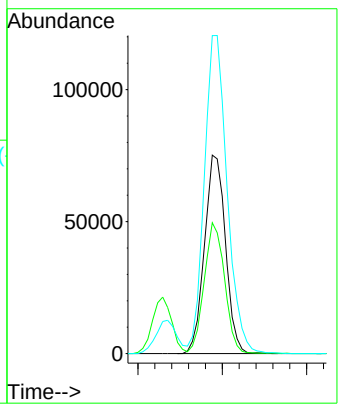
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

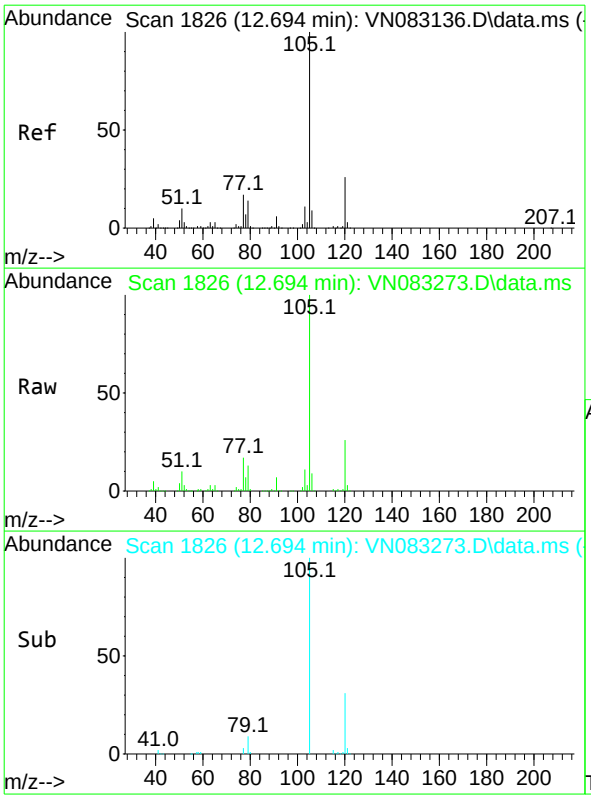


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:152 Resp: 130108

Ion	Ratio	Lower	Upper
152	100		
115	63.5	30.6	91.6
150	173.7	0.0	348.6

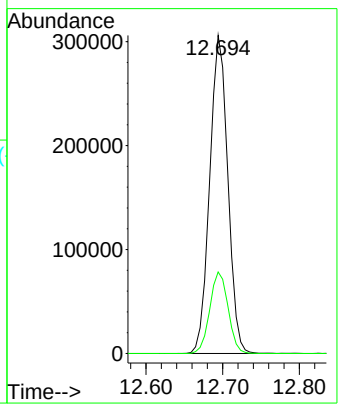




#73
Isopropylbenzene
Concen: 46.093 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:105 Resp: 501606

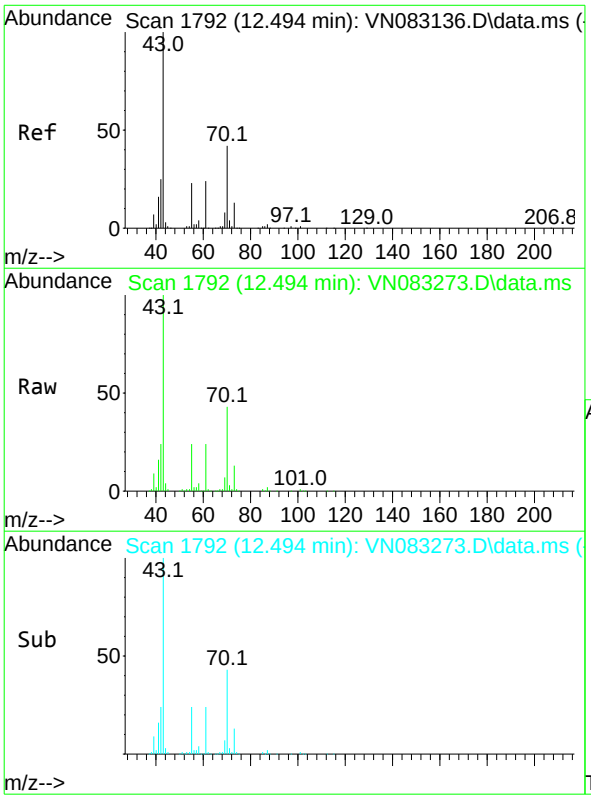
Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

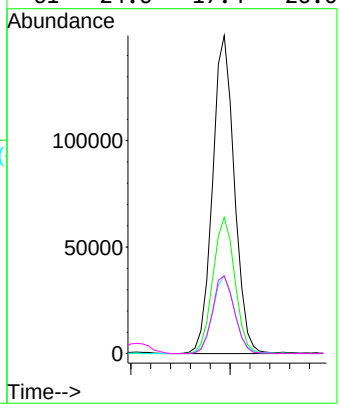
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

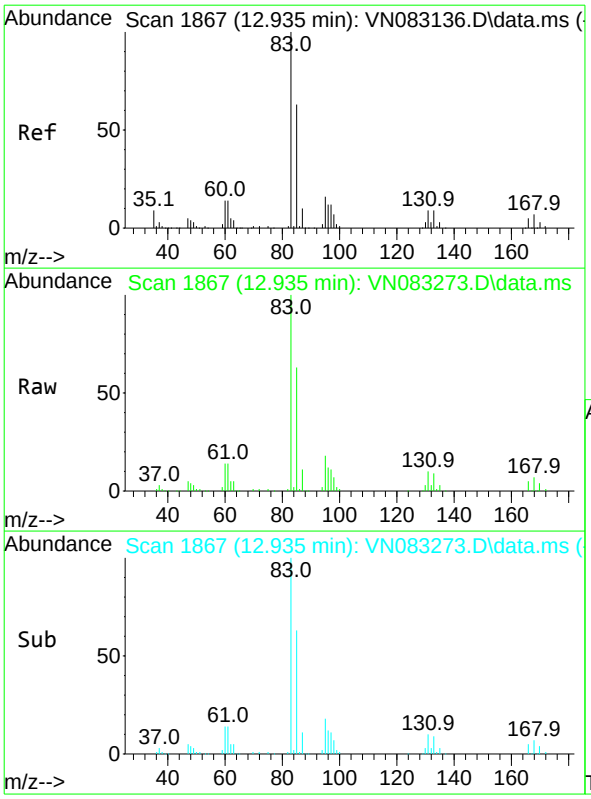


#74
N-amyl acetate
Concen: 42.845 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 43 Resp: 228068

Ion	Ratio	Lower	Upper
43	100		
70	43.3	29.8	44.6
55	24.7	18.7	28.1
61	24.6	17.4	26.0

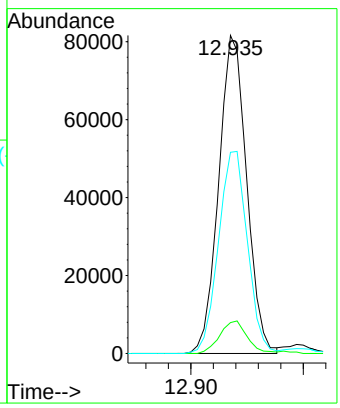




#75
1,1,2,2-Tetrachloroethane
Concen: 45.722 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 83 Resp: 140731

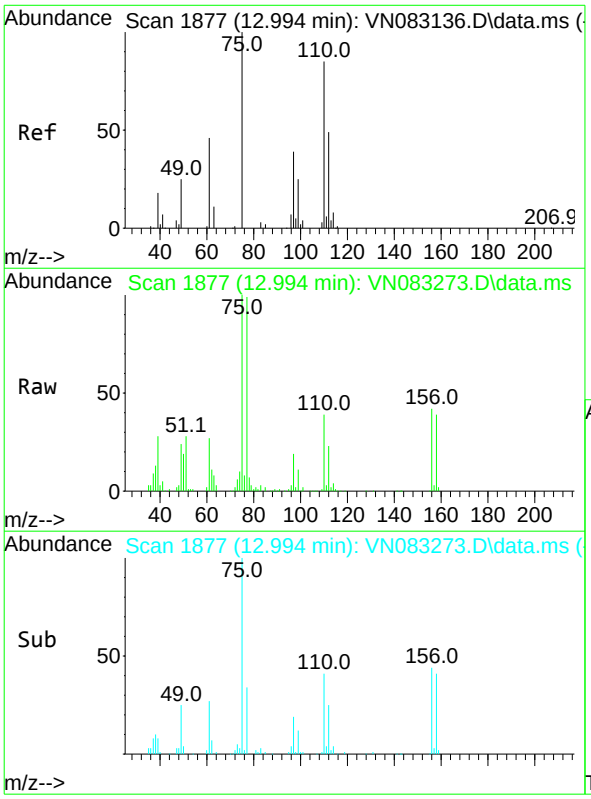
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	65.7	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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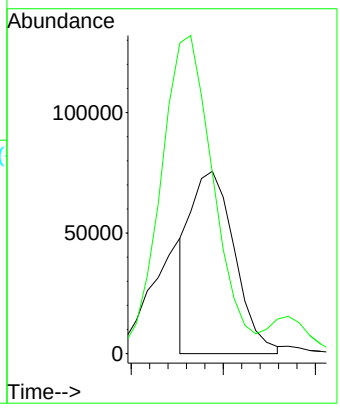
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

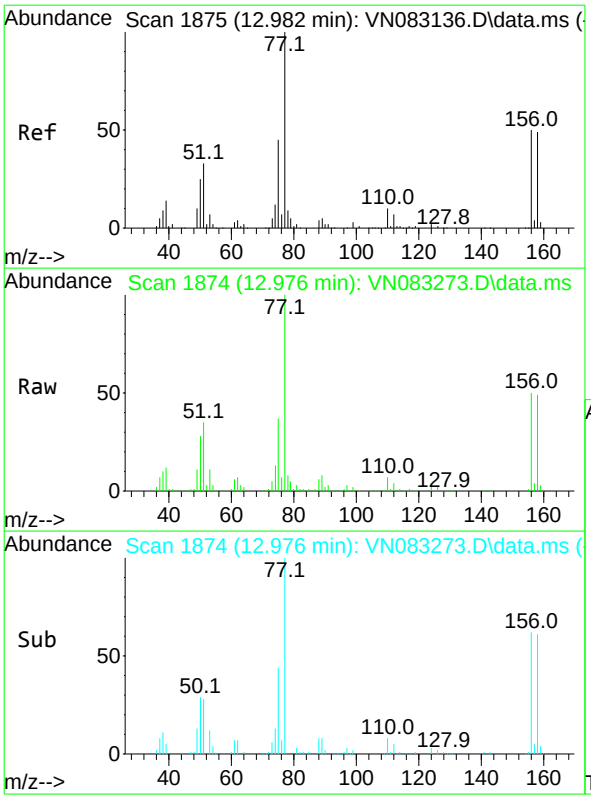


#76
1,2,3-Trichloropropane
Concen: 43.886 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 75 Resp: 125319

Ion	Ratio	Lower	Upper
75	100		
77	209.9	110.9	332.6

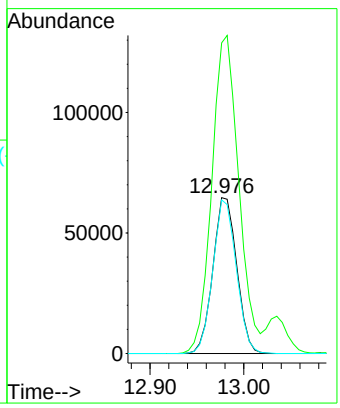




#77
Bromobenzene
Concen: 47.337 ug/l
RT: 12.976 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:156 Resp: 114435

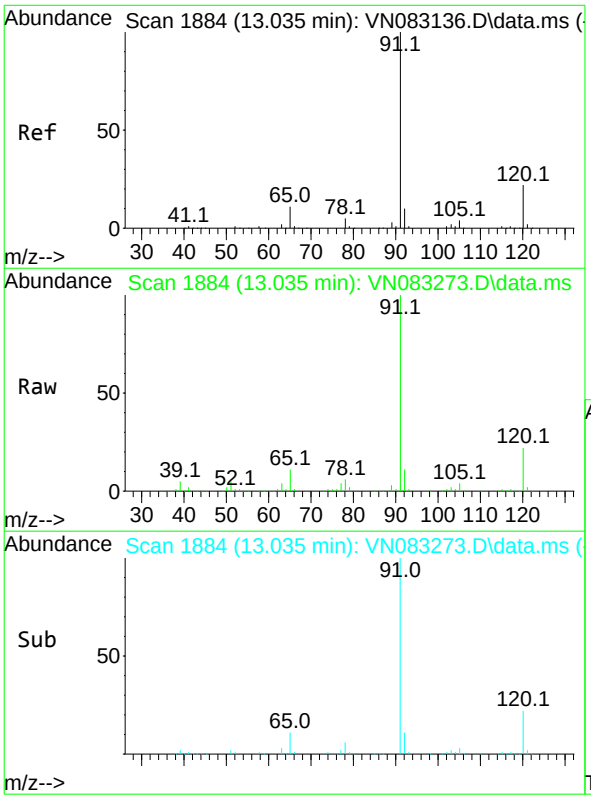
Ion	Ratio	Lower	Upper
156	100		
77	229.9	111.3	333.8
158	96.8	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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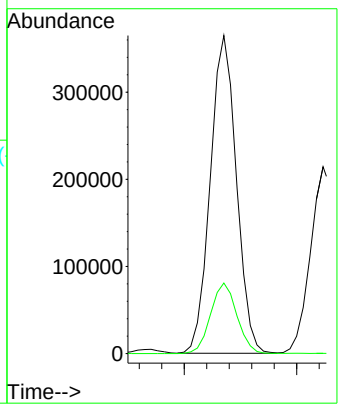
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

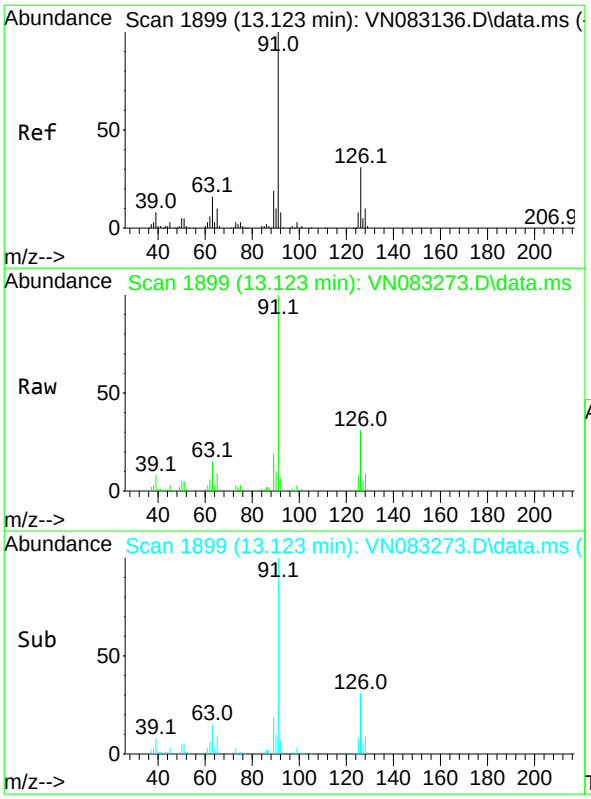


#78
n-propylbenzene
Concen: 47.013 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 91 Resp: 589118

Ion	Ratio	Lower	Upper
91	100		
120	22.3	10.9	32.9

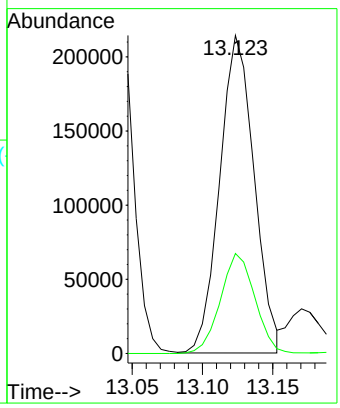




#79
2-Chlorotoluene
Concen: 45.940 ug/l
RT: 13.123 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 91 Resp: 364980

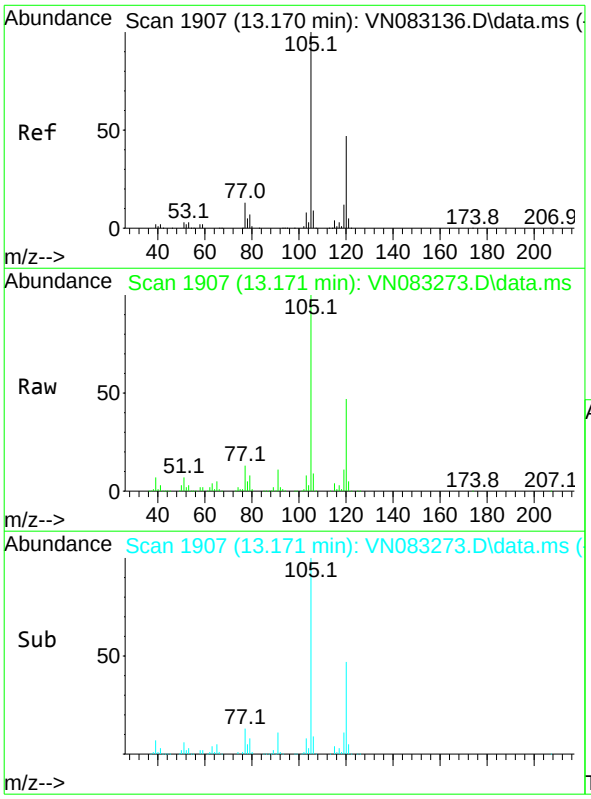
Ion	Ratio	Lower	Upper
91	100		
126	31.5	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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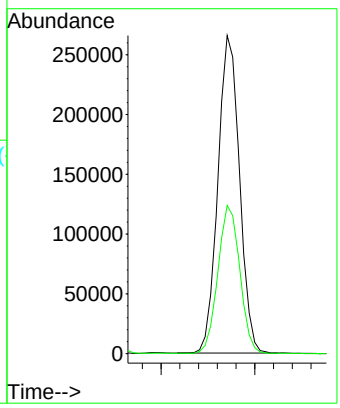
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

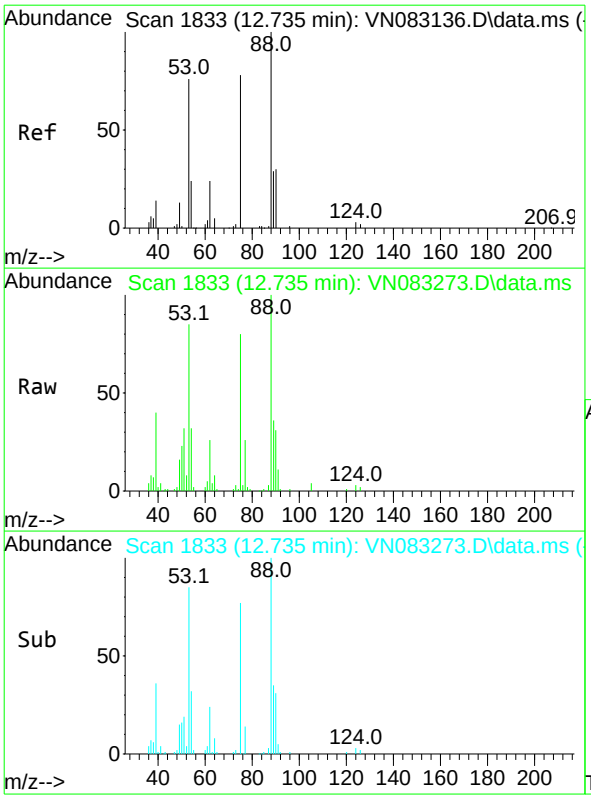


#80
1,3,5-Trimethylbenzene
Concen: 46.717 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:105 Resp: 425635

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.3	72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 35.795 ug/l
RT: 12.735 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

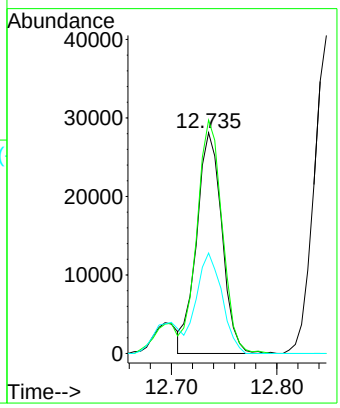
Tgt Ion: 75 Resp: 46990

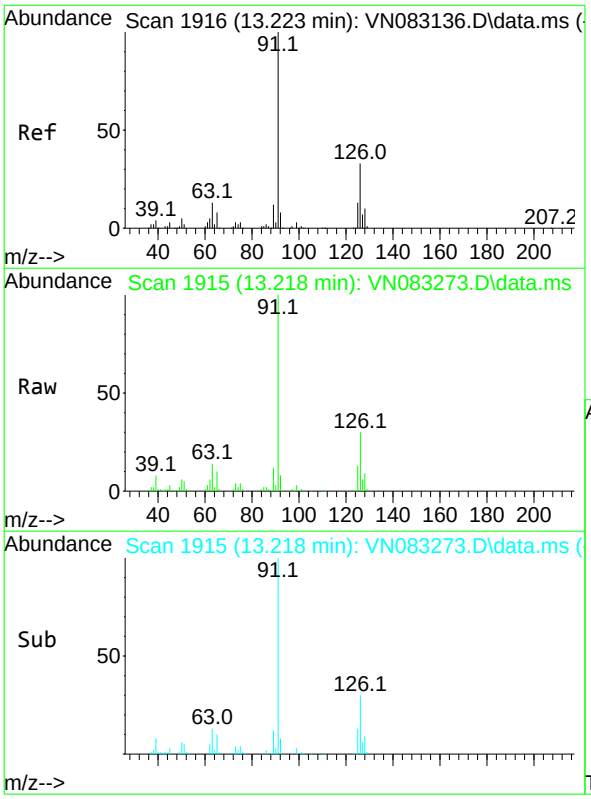
Ion	Ratio	Lower	Upper
75	100		
53	105.4	88.4	132.6
89	45.4	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

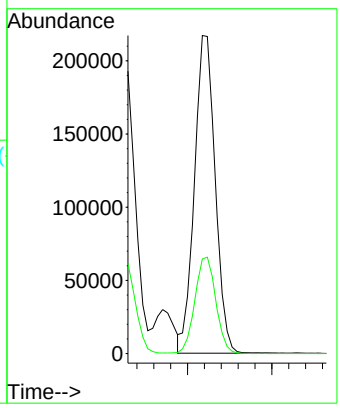


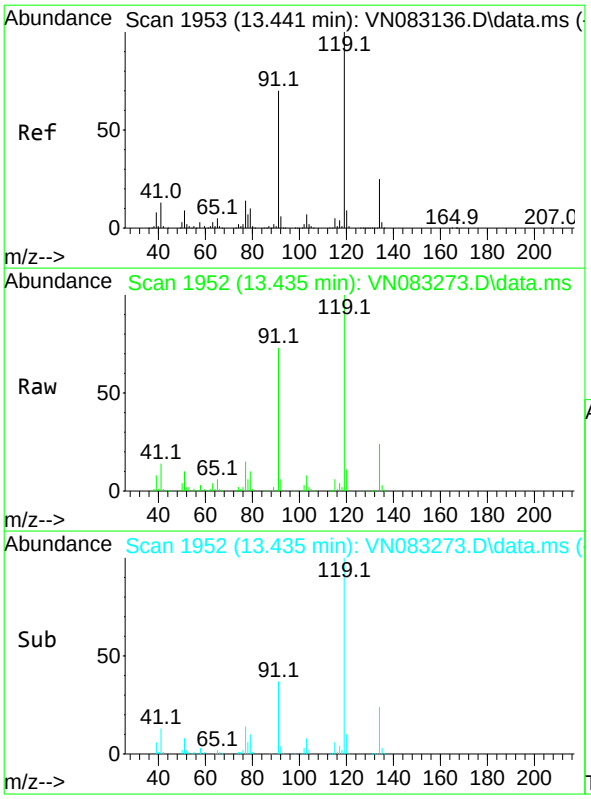


#82
4-Chlorotoluene
Concen: 46.484 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 91 Resp: 370428

Ion	Ratio	Lower	Upper
91	100		
126	30.7	16.2	48.6





#83
tert-Butylbenzene
Concen: 46.463 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

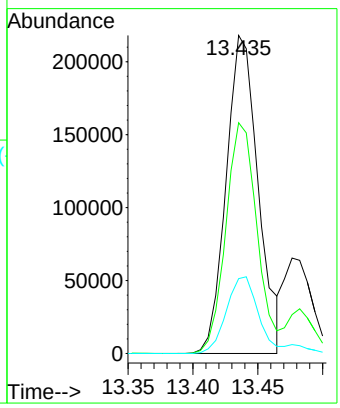
Tgt Ion:119 Resp: 374894

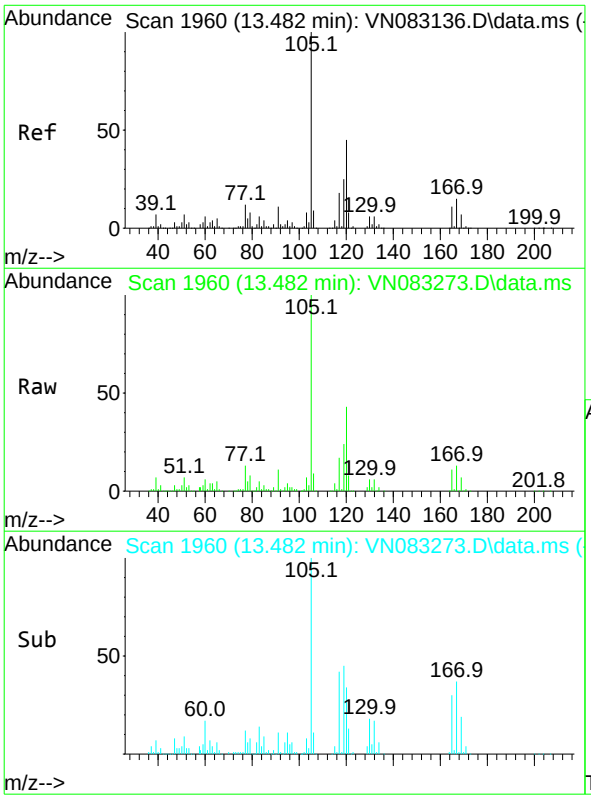
Ion	Ratio	Lower	Upper
119	100		
91	70.5	35.0	105.1
134	24.1	13.3	39.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

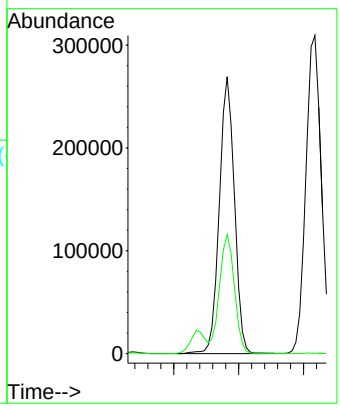


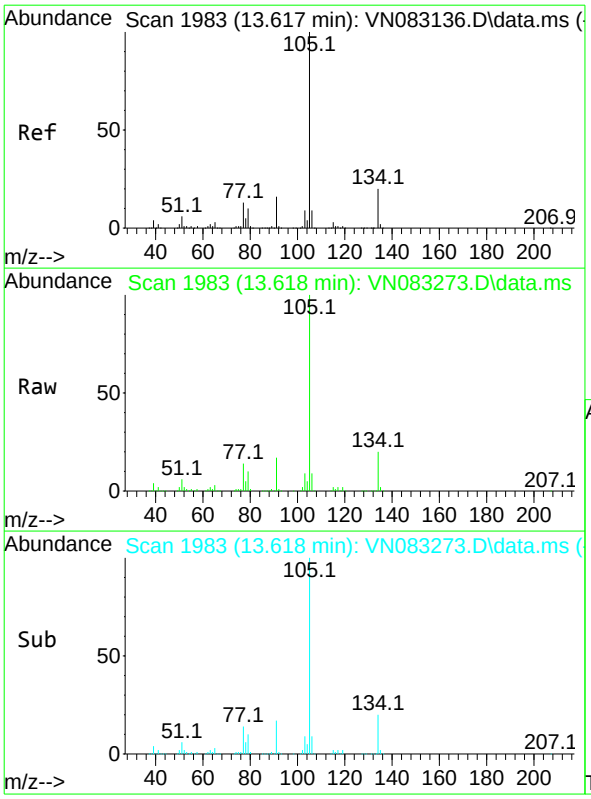


#84
1,2,4-Trimethylbenzene
Concen: 47.380 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:105 Resp: 435034

Ion	Ratio	Lower	Upper
105	100		
120	42.6	21.9	65.8

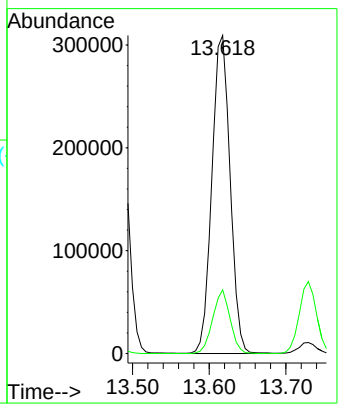




#85
sec-Butylbenzene
Concen: 46.360 ug/l
RT: 13.618 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:105 Resp: 510406

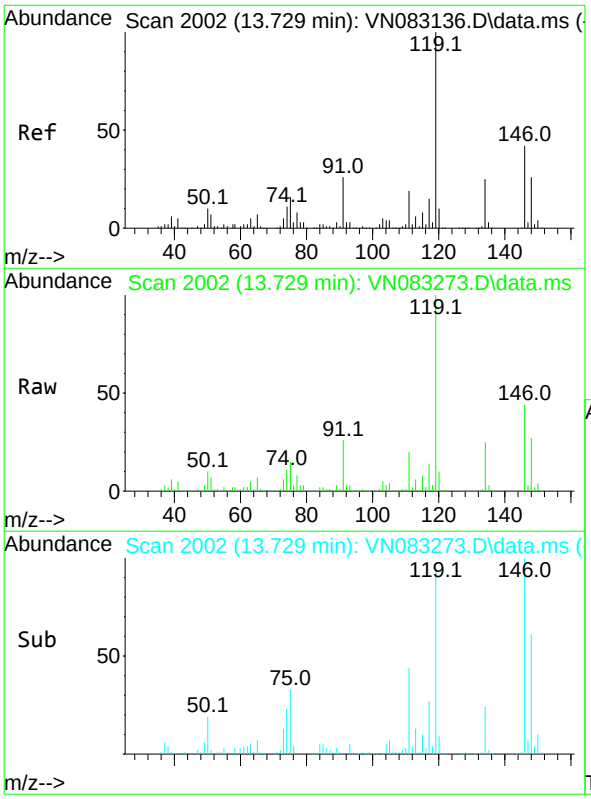
Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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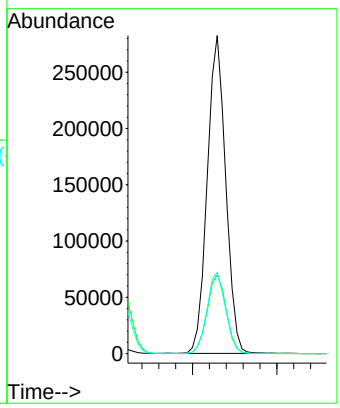
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

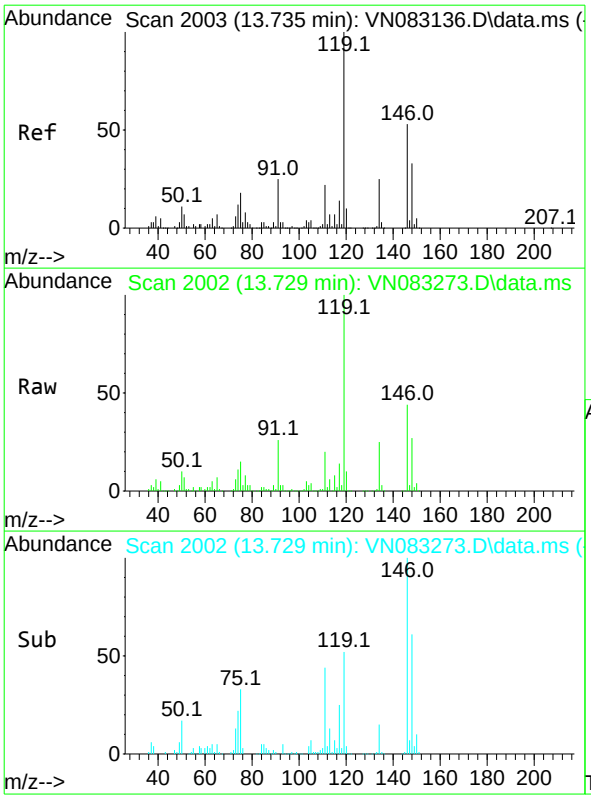


#86
p-Isopropyltoluene
Concen: 47.118 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:119 Resp: 428320

Ion	Ratio	Lower	Upper
119	100		
134	25.5	13.0	39.0
91	25.8	12.3	36.9

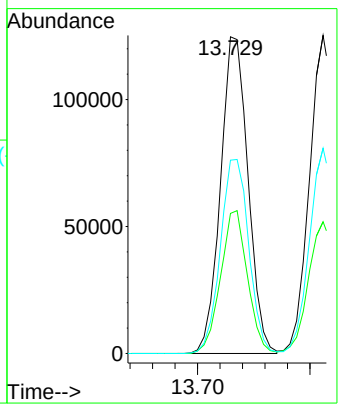




#87
1,3-Dichlorobenzene
Concen: 46.613 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:146 Resp: 212036

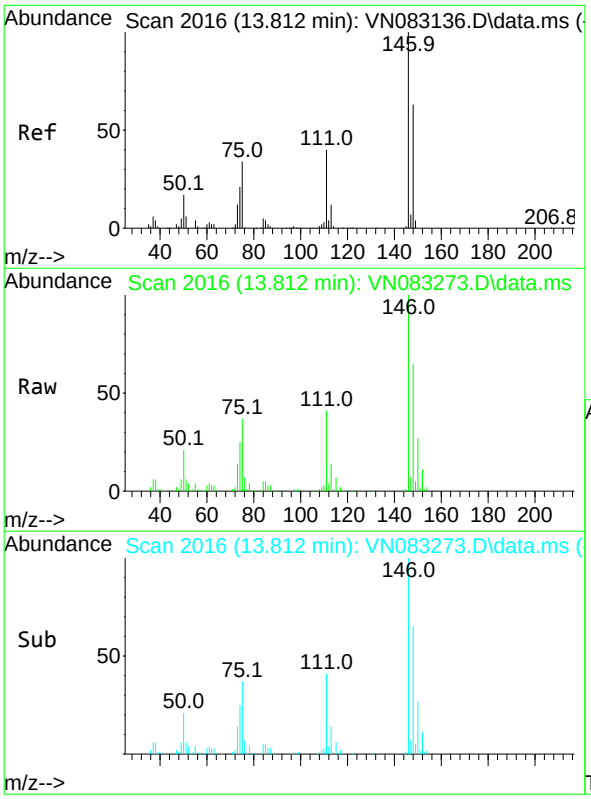
Ion	Ratio	Lower	Upper
146	100		
111	44.1	20.6	61.9
148	63.2	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

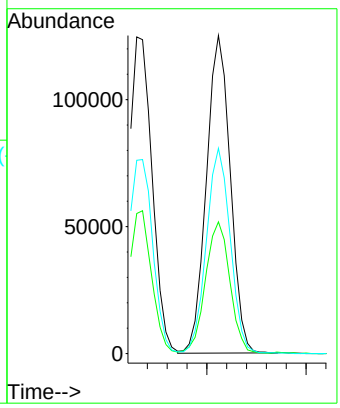
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

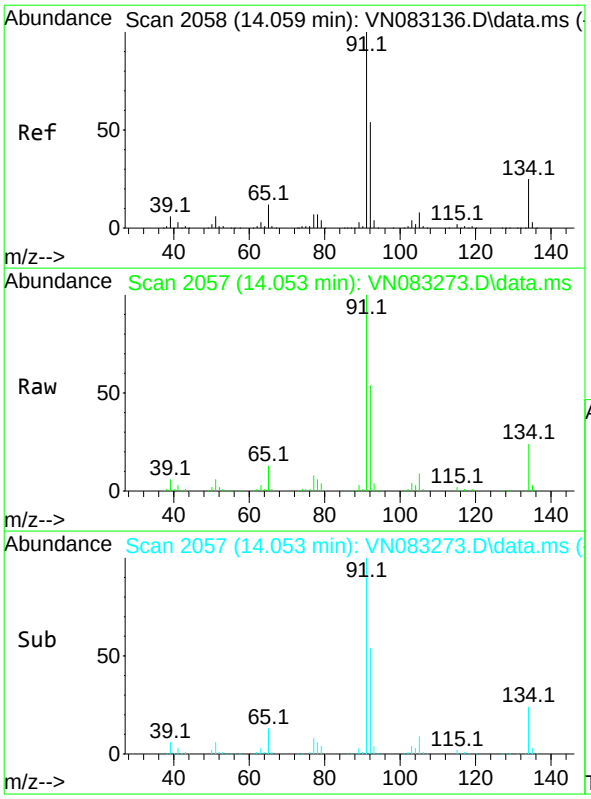


#88
1,4-Dichlorobenzene
Concen: 45.682 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:146 Resp: 209492

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.1	60.3
148	64.9	32.2	96.6

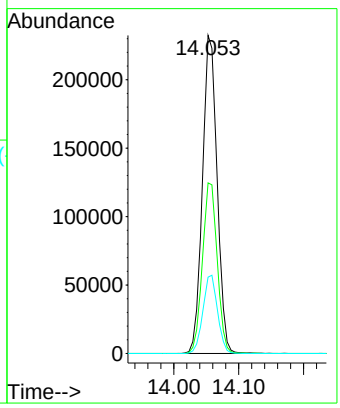




#89
n-Butylbenzene
Concen: 46.266 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 91 Resp: 364428

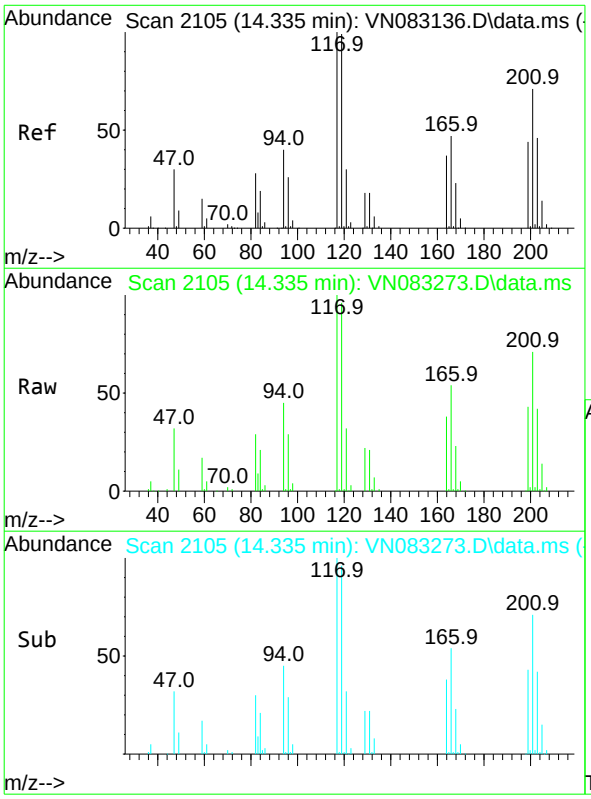
Ion	Ratio	Lower	Upper
91	100		
92	54.2	26.1	78.3
134	24.5	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

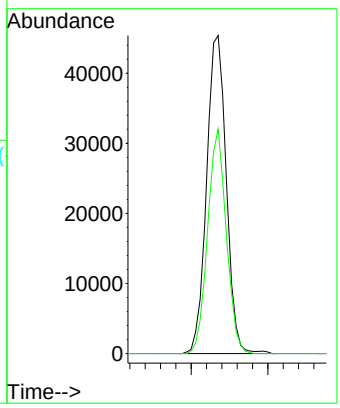
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

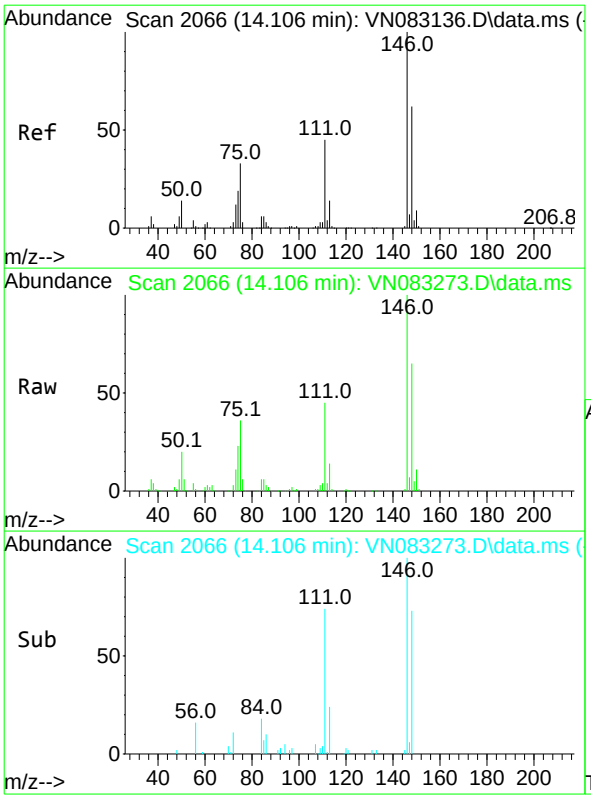


#90
Hexachloroethane
Concen: 46.041 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:117 Resp: 80859

Ion	Ratio	Lower	Upper
117	100		
201	66.9	35.8	107.3

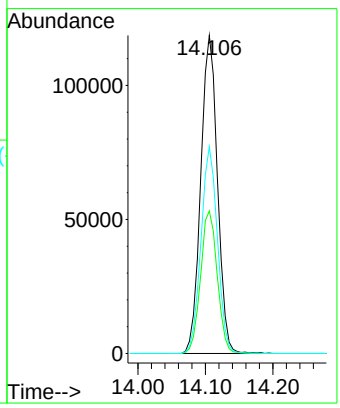




#91
1,2-Dichlorobenzene
Concen: 46.393 ug/l
RT: 14.106 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:146 Resp: 204215

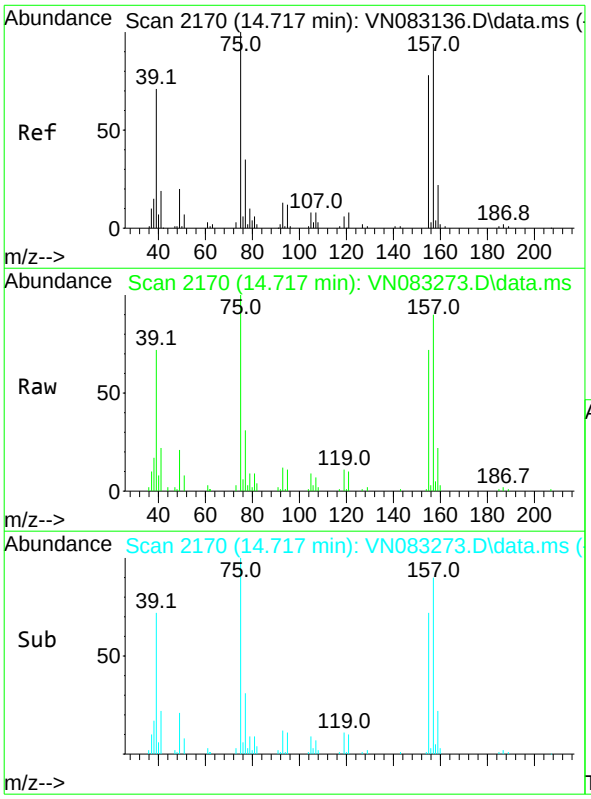
Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.4	64.2
148	64.1	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

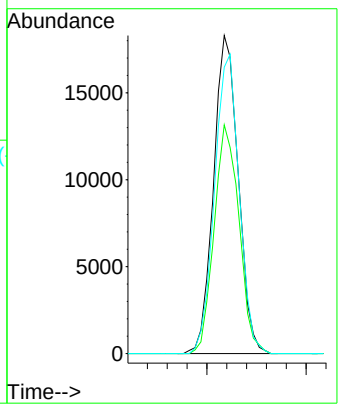
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

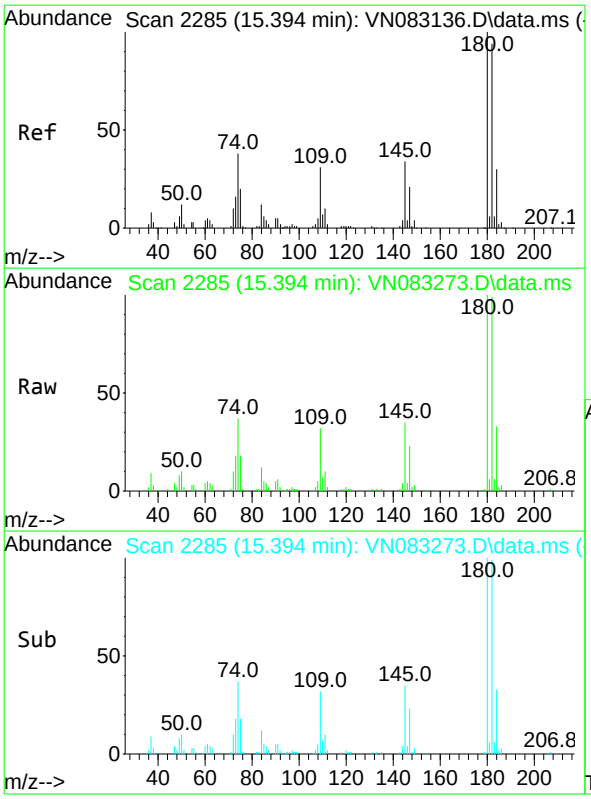


#92
1,2-Dibromo-3-Chloropropane
Concen: 42.279 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 75 Resp: 31578

Ion	Ratio	Lower	Upper
75	100		
155	72.6	36.6	109.8
157	93.9	46.9	140.6

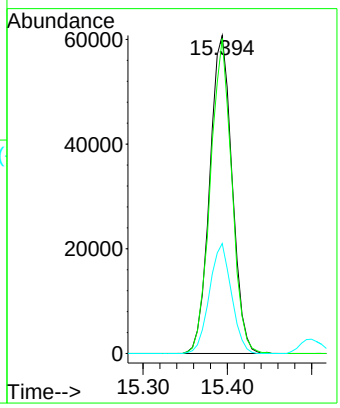




#93
1,2,4-Trichlorobenzene
Concen: 45.235 ug/l
RT: 15.394 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:180 Resp: 111553

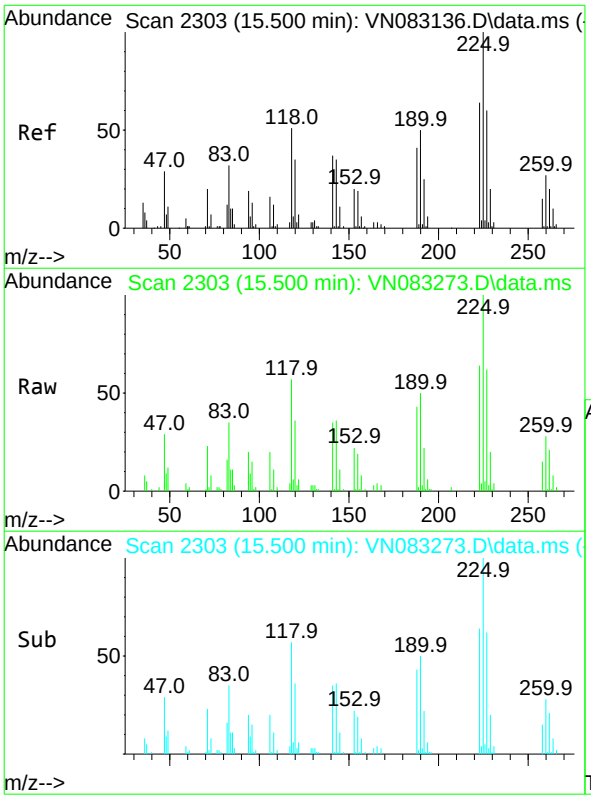
Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.3	141.8
145	34.1	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

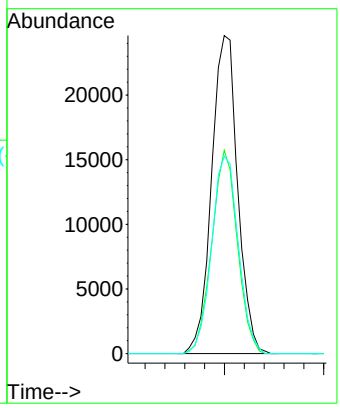
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

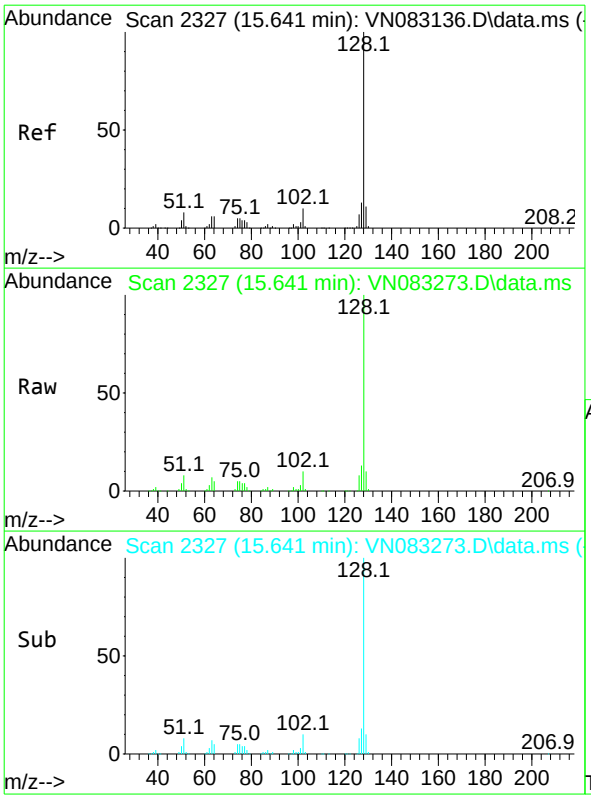


#94
Hexachlorobutadiene
Concen: 40.920 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:225 Resp: 44878

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.9	95.7
227	63.6	32.5	97.5

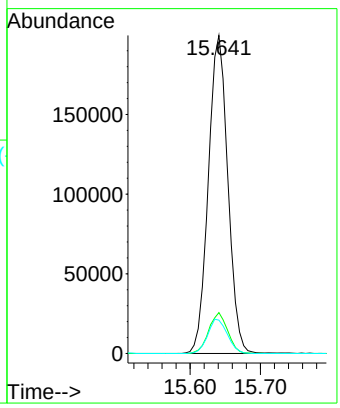




#95
Naphthalene
Concen: 44.043 ug/l
RT: 15.641 min Scan# 23
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:128 Resp: 384733

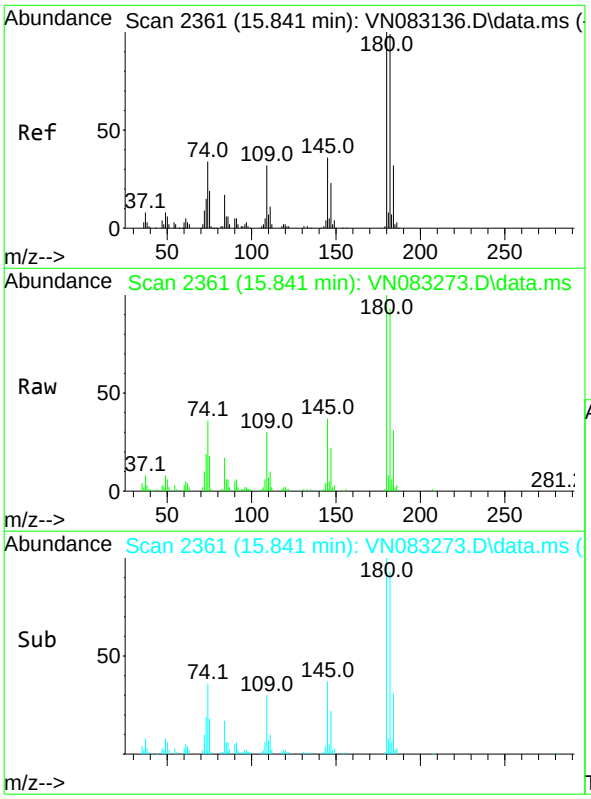
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.6	16.0
129	10.9	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

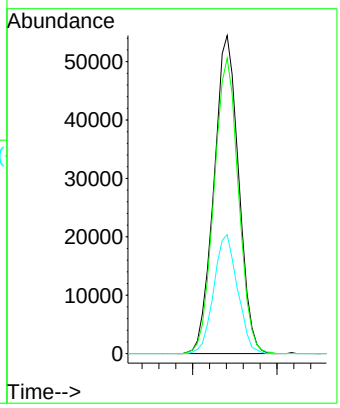
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#96
1,2,3-Trichlorobenzene
Concen: 45.439 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:180 Resp: 110878

Ion	Ratio	Lower	Upper
180	100		
182	91.7	48.9	146.8
145	35.9	16.8	50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083273.D
Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	85	0.00
2	T	Dichlorodifluoromethane	0.567	0.522	7.9	77	0.00
3	P	Chloromethane	0.581	0.527	9.3	75	0.00
4	C	Vinyl Chloride	0.592	0.575	2.9#	81	0.00
5	T	Bromomethane	0.368	0.331	10.1	79	0.00
6	T	Chloroethane	0.371	0.373	-0.5	89	0.00
7	T	Trichlorofluoromethane	0.979	0.983	-0.4	84	0.00
8	T	Diethyl Ether	0.364	0.352	3.3	81	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.539	0.535	0.7	83	0.00
10	T	Methyl Iodide	0.710	0.614	13.5	70	0.00
11	T	Tert butyl alcohol	0.148	0.140	5.4	81	0.00
12	CM	1,1-Dichloroethene	0.554	0.506	8.7#	79	0.00
13	T	Acrolein	0.096	0.076	20.8	63	0.00
14	T	Allyl chloride	1.047	0.839	19.9	76	0.00
15	T	Acrylonitrile	0.304	0.286	5.9	79	0.00
16	T	Acetone	0.278	0.237	14.7	70	0.00
17	T	Carbon Disulfide	1.622	1.315	18.9	71	0.00
18	T	Methyl Acetate	0.830	0.808	2.7	88	0.00
19	T	Methyl tert-butyl Ether	2.001	1.942	2.9	81	0.00
20	T	Methylene Chloride	0.641	0.582	9.2	82	0.00
21	T	trans-1,2-Dichloroethene	0.573	0.535	6.6	79	-0.01
22	T	Diisopropyl ether	1.969	1.991	-1.1	84	0.00
23	T	Vinyl Acetate	2.018	1.981	1.8	80	0.00
24	P	1,1-Dichloroethane	1.073	1.074	-0.1	84	0.00
25	T	2-Butanone	0.428	0.388	9.3	77	0.00
26	T	2,2-Dichloropropane	0.997	0.667	33.1#	55	0.00
27	T	cis-1,2-Dichloroethene	0.691	0.670	3.0	82	0.00
28	T	Bromochloromethane	0.439	0.422	3.9	81	0.00
29	T	Tetrahydrofuran	0.276	0.256	7.2	78	0.00
30	C	Chloroform	1.115	1.154	-3.5#	86	0.00
31	T	Cyclohexane	1.055	0.902	14.5	78	0.00
32	T	1,1,1-Trichloroethane	1.055	1.071	-1.5	84	0.00
33	S	1,2-Dichloroethane-d4	0.712	0.707	0.7	80	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
35	S	Dibromofluoromethane	0.312	0.295	5.4	78	0.00
36	T	1,1-Dichloropropene	0.472	0.443	6.1	82	0.00
37	T	Ethyl Acetate	0.529	0.449	15.1	79	0.00
38	T	Carbon Tetrachloride	0.532	0.520	2.3	84	0.00
39	T	Methylcyclohexane	0.580	0.509	12.2	75	0.00
40	TM	Benzene	1.406	1.358	3.4	82	0.00
41	T	Methacrylonitrile	0.301	0.266	11.6	82	0.00
42	TM	1,2-Dichloroethane	0.512	0.512	0.0	86	0.00
43	T	Isopropyl Acetate	1.211	0.850	29.8#	81	0.00
44	TM	Trichloroethene	0.335	0.321	4.2	82	0.00
45	C	1,2-Dichloropropane	0.334	0.330	1.2#	84	0.00
46	T	Dibromomethane	0.239	0.240	-0.4	84	0.00
47	T	Bromodichloromethane	0.537	0.535	0.4	87	0.00
48	T	Methyl methacrylate	0.437	0.396	9.4	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083273.D
Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.008	0.007	12.5	71	0.00
50	S	Toluene-d8	1.164	1.107	4.9	77	0.00
51	T	4-Methyl-2-Pentanone	0.500	0.474	5.2	80	0.00
52	CM	Toluene	0.889	0.866	2.6#	82	0.00
53	T	t-1,3-Dichloropropene	0.551	0.514	6.7	76	0.00
54	T	cis-1,3-Dichloropropene	0.586	0.535	8.7	77	0.00
55	T	1,1,2-Trichloroethane	0.318	0.320	-0.6	84	0.00
56	T	Ethyl methacrylate	0.600	0.574	4.3	81	0.00
57	T	1,3-Dichloropropane	0.568	0.569	-0.2	84	0.00
58	T	2-Chloroethyl Vinyl ether	0.254	0.243	4.3	82	0.00
59	T	2-Hexanone	0.387	0.350	9.6	77	0.00
60	T	Dibromochloromethane	0.385	0.394	-2.3	84	0.00
61	T	1,2-Dibromoethane	0.335	0.331	1.2	84	0.00
62	S	4-Bromofluorobenzene	0.454	0.432	4.8	77	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
64	T	Tetrachloroethene	0.331	0.321	3.0	83	0.00
65	PM	Chlorobenzene	1.105	1.051	4.9	82	0.00
66	T	1,1,1,2-Tetrachloroethane	0.390	0.373	4.4	83	0.00
67	C	Ethyl Benzene	2.027	1.943	4.1#	83	0.00
68	T	m/p-Xylenes	0.759	0.733	3.4	83	0.00
69	T	o-Xylene	0.749	0.718	4.1	83	0.00
70	T	Styrene	1.258	1.228	2.4	82	0.00
71	P	Bromoform	0.295	0.281	4.7	79	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73	T	Isopropylbenzene	4.182	3.855	7.8	82	0.00
74	T	N-amyl acetate	2.046	1.753	14.3	79	0.00
75	P	1,1,2,2-Tetrachloroethane	1.183	1.082	8.5	84	0.00
76	T	1,2,3-Trichloropropane	1.097	0.963	12.2	82	0.00
77	T	Bromobenzene	0.929	0.880	5.3	83	0.00
78	T	n-propylbenzene	4.816	4.528	6.0	83	0.00
79	T	2-Chlorotoluene	3.053	2.805	8.1	83	0.00
80	T	1,3,5-Trimethylbenzene	3.501	3.271	6.6	83	0.00
81	T	trans-1,4-Dichloro-2-butene	0.504	0.361	28.4#	66	0.00
82	T	4-Chlorotoluene	3.062	2.847	7.0	83	0.00
83	T	tert-Butylbenzene	3.101	2.881	7.1	83	0.00
84	T	1,2,4-Trimethylbenzene	3.529	3.344	5.2	83	0.00
85	T	sec-Butylbenzene	4.231	3.923	7.3	81	0.00
86	T	p-Isopropyltoluene	3.493	3.292	5.8	81	0.00
87	T	1,3-Dichlorobenzene	1.748	1.630	6.8	83	0.00
88	T	1,4-Dichlorobenzene	1.762	1.610	8.6	82	0.00
89	T	n-Butylbenzene	3.027	2.801	7.5	79	0.00
90	T	Hexachloroethane	0.675	0.621	8.0	82	0.00
91	T	1,2-Dichlorobenzene	1.692	1.570	7.2	84	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.287	0.243	15.3	78	0.00
93	T	1,2,4-Trichlorobenzene	0.948	0.857	9.6	79	0.00
94	T	Hexachlorobutadiene	0.421	0.345	18.1	77	0.00
95	T	Naphthalene	3.357	2.957	11.9	77	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083273.D
Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.938	0.852	9.2	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083273.D
Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	85	0.00
2	T	Dichlorodifluoromethane	50.000	46.006	8.0	77	0.00
3	P	Chloromethane	50.000	45.401	9.2	75	0.00
4	C	Vinyl Chloride	50.000	48.533	2.9#	81	0.00
5	T	Bromomethane	50.000	45.060	9.9	79	0.00
6	T	Chloroethane	50.000	50.390	-0.8	89	0.00
7	T	Trichlorofluoromethane	50.000	50.207	-0.4	84	0.00
8	T	Diethyl Ether	50.000	48.323	3.4	81	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.568	0.9	83	0.00
10	T	Methyl Iodide	50.000	43.287	13.4	70	0.00
11	T	Tert butyl alcohol	250.000	236.796	5.3	81	0.00
12	CM	1,1-Dichloroethene	50.000	45.612	8.8#	79	0.00
13	T	Acrolein	250.000	196.931	21.2	63	0.00
14	T	Allyl chloride	50.000	40.064	19.9	76	0.00
15	T	Acrylonitrile	250.000	234.853	6.1	79	0.00
16	T	Acetone	250.000	212.343	15.1	70	0.00
17	T	Carbon Disulfide	50.000	40.556	18.9	71	0.00
18	T	Methyl Acetate	50.000	48.682	2.6	88	0.00
19	T	Methyl tert-butyl Ether	50.000	48.527	2.9	81	0.00
20	T	Methylene Chloride	50.000	45.431	9.1	82	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.698	6.6	79	-0.01
22	T	Diisopropyl ether	50.000	50.559	-1.1	84	0.00
23	T	Vinyl Acetate	250.000	245.427	1.8	80	0.00
24	P	1,1-Dichloroethane	50.000	50.042	-0.1	84	0.00
25	T	2-Butanone	250.000	226.614	9.4	77	0.00
26	T	2,2-Dichloropropane	50.000	33.474	33.1#	55	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.436	3.1	82	0.00
28	T	Bromochloromethane	50.000	48.079	3.8	81	0.00
29	T	Tetrahydrofuran	250.000	231.937	7.2	78	0.00
30	C	Chloroform	50.000	51.757	-3.5#	86	0.00
31	T	Cyclohexane	50.000	42.764	14.5	78	0.00
32	T	1,1,1-Trichloroethane	50.000	50.731	-1.5	84	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.638	0.7	80	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	88	0.00
35	S	Dibromofluoromethane	50.000	47.268	5.5	78	0.00
36	T	1,1-Dichloropropene	50.000	46.925	6.2	82	0.00
37	T	Ethyl Acetate	50.000	42.466	15.1	79	0.00
38	T	Carbon Tetrachloride	50.000	48.876	2.2	84	0.00
39	T	Methylcyclohexane	50.000	43.916	12.2	75	0.00
40	TM	Benzene	50.000	48.285	3.4	82	0.00
41	T	Methacrylonitrile	50.000	44.240	11.5	82	0.00
42	TM	1,2-Dichloroethane	50.000	49.978	0.0	86	0.00
43	T	Isopropyl Acetate	50.000	46.121	7.8	81	0.00
44	TM	Trichloroethene	50.000	48.013	4.0	82	0.00
45	C	1,2-Dichloropropane	50.000	49.443	1.1#	84	0.00
46	T	Dibromomethane	50.000	50.307	-0.6	84	0.00
47	T	Bromodichloromethane	50.000	49.897	0.2	87	0.00
48	T	Methyl methacrylate	50.000	45.281	9.4	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083273.D
Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	842.987	15.7	71	0.00
50	S	Toluene-d8	50.000	47.549	4.9	77	0.00
51	T	4-Methyl-2-Pentanone	250.000	236.978	5.2	80	0.00
52	CM	Toluene	50.000	48.733	2.5#	82	0.00
53	T	t-1,3-Dichloropropene	50.000	46.629	6.7	76	0.00
54	T	cis-1,3-Dichloropropene	50.000	45.600	8.8	77	0.00
55	T	1,1,2-Trichloroethane	50.000	50.194	-0.4	84	0.00
56	T	Ethyl methacrylate	50.000	47.798	4.4	81	0.00
57	T	1,3-Dichloropropane	50.000	50.099	-0.2	84	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	239.532	4.2	82	0.00
59	T	2-Hexanone	250.000	226.034	9.6	77	0.00
60	T	Dibromochloromethane	50.000	51.173	-2.3	84	0.00
61	T	1,2-Dibromoethane	50.000	49.436	1.1	84	0.00
62	S	4-Bromofluorobenzene	50.000	47.580	4.8	77	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	89	0.00
64	T	Tetrachloroethene	50.000	48.491	3.0	83	0.00
65	PM	Chlorobenzene	50.000	47.539	4.9	82	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	47.857	4.3	83	0.00
67	C	Ethyl Benzene	50.000	47.941	4.1#	83	0.00
68	T	m/p-Xylenes	100.000	96.479	3.5	83	0.00
69	T	o-Xylene	50.000	47.948	4.1	83	0.00
70	T	Styrene	50.000	48.825	2.3	82	0.00
71	P	Bromoform	50.000	47.541	4.9	79	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73	T	Isopropylbenzene	50.000	46.093	7.8	82	0.00
74	T	N-amyl acetate	50.000	42.845	14.3	79	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	45.722	8.6	84	0.00
76	T	1,2,3-Trichloropropane	50.000	43.886	12.2	82	0.00
77	T	Bromobenzene	50.000	47.337	5.3	83	0.00
78	T	n-propylbenzene	50.000	47.013	6.0	83	0.00
79	T	2-Chlorotoluene	50.000	45.940	8.1	83	0.00
80	T	1,3,5-Trimethylbenzene	50.000	46.717	6.6	83	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	35.795	28.4#	66	0.00
82	T	4-Chlorotoluene	50.000	46.484	7.0	83	0.00
83	T	tert-Butylbenzene	50.000	46.463	7.1	83	0.00
84	T	1,2,4-Trimethylbenzene	50.000	47.380	5.2	83	0.00
85	T	sec-Butylbenzene	50.000	46.360	7.3	81	0.00
86	T	p-Isopropyltoluene	50.000	47.118	5.8	81	0.00
87	T	1,3-Dichlorobenzene	50.000	46.613	6.8	83	0.00
88	T	1,4-Dichlorobenzene	50.000	45.682	8.6	82	0.00
89	T	n-Butylbenzene	50.000	46.266	7.5	79	0.00
90	T	Hexachloroethane	50.000	46.041	7.9	82	0.00
91	T	1,2-Dichlorobenzene	50.000	46.393	7.2	84	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	42.279	15.4	78	0.00
93	T	1,2,4-Trichlorobenzene	50.000	45.235	9.5	79	0.00
94	T	Hexachlorobutadiene	50.000	40.920	18.2	77	0.00
95	T	Naphthalene	50.000	44.043	11.9	77	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083273.D
Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	45.439	9.1	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

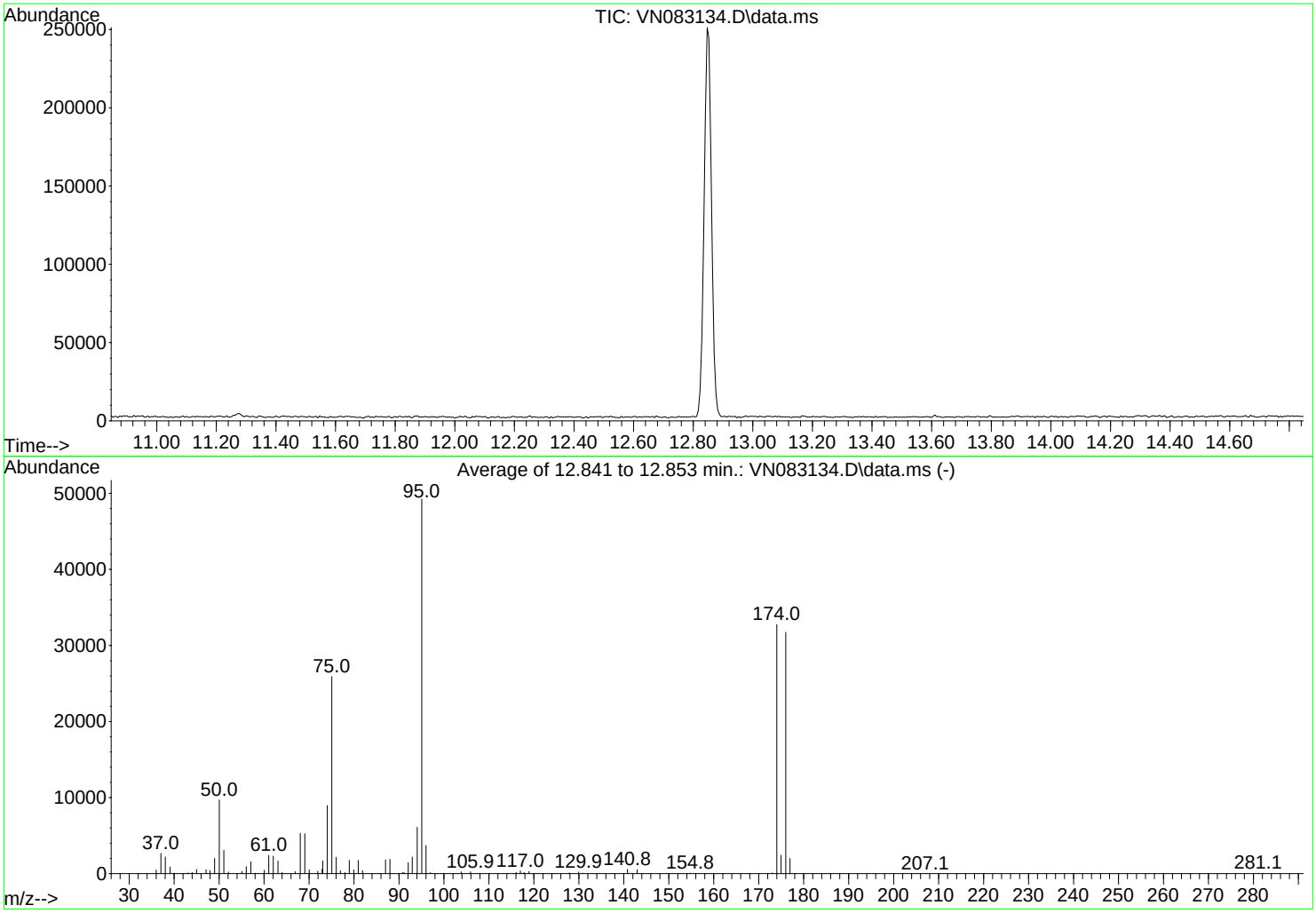
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083134.D
Acq On : 07 Aug 2024 10:09
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Title : SW846 8260
Last Update : Thu Aug 08 06:30:41 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

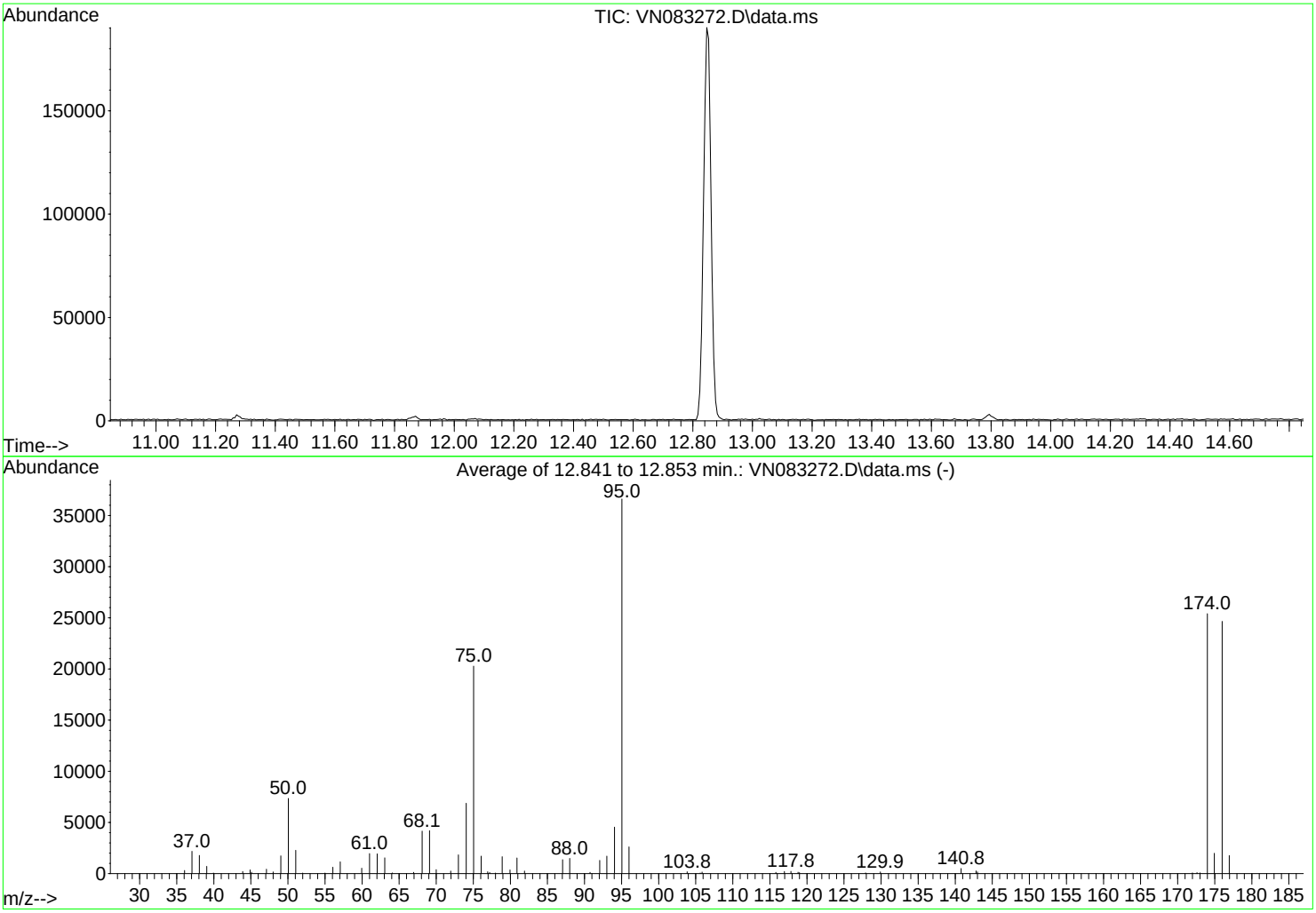
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	9690	PASS
75	95	30	60	52.6	25907	PASS
95	95	100	100	100.0	49259	PASS
96	95	5	9	7.5	3697	PASS
173	174	0.00	2	0.3	99	PASS
174	95	50	100	66.5	32749	PASS
175	174	5	9	7.4	2414	PASS
176	174	95	101	96.9	31720	PASS
177	176	5	9	6.3	1999	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083272.D
Acq On : 14 Aug 2024 01:50
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Title : SW846 8260
Last Update : Thu Aug 08 06:30:41 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1844

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	7351	PASS
75	95	30	60	55.4	20288	PASS
95	95	100	100	100.0	36619	PASS
96	95	5	9	7.1	2607	PASS
173	174	0.00	2	0.3	70	PASS
174	95	50	100	69.4	25411	PASS
175	174	5	9	7.8	1990	PASS
176	174	95	101	97.0	24656	PASS
177	176	5	9	7.2	1769	PASS

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:	VN0813WBL02	SDG No.:	P3451
Lab Sample ID:	VN0813WBL02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083274.D	1		08/14/24 03:22	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L

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:	VN0813WBL02	SDG No.:	P3451
Lab Sample ID:	VN0813WBL02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083274.D	1		08/14/24 03:22	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.2		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.7		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.5		70 (77) - 130 (121)	115%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	150000	8.224			
540-36-3	1,4-Difluorobenzene	293000	9.106			
3114-55-4	Chlorobenzene-d5	300000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	135000	13.794			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083274.D
Acq On : 14 Aug 2024 03:22
Operator : JC\MD
Sample : VN0813WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL02

Quant Time: Aug 14 04:44:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

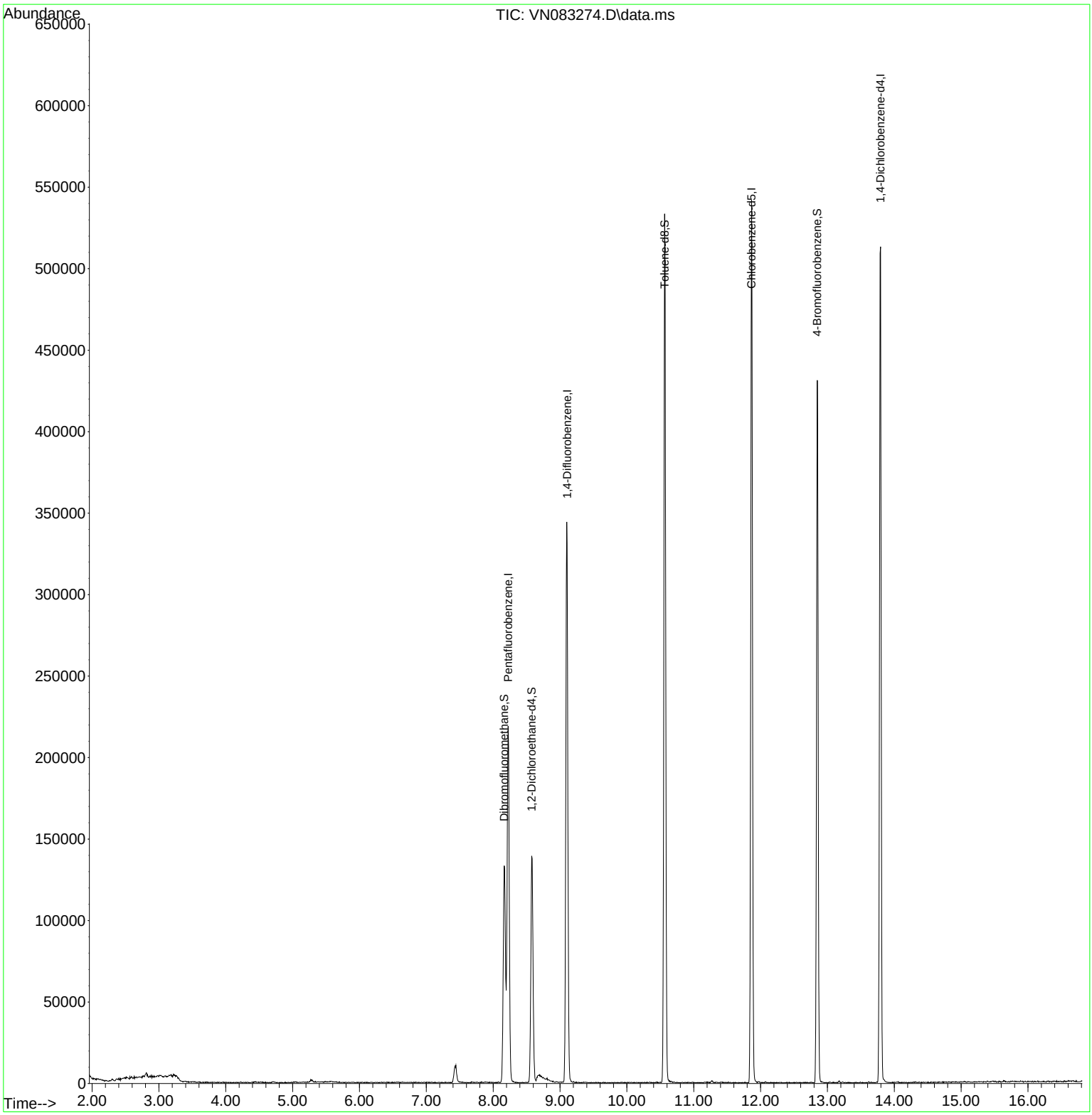
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	150257	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	292620	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	300089	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	135334	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120249	56.224	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.440%			
35) Dibromofluoromethane	8.165	113	95831	52.468	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.940%			
50) Toluene-d8	10.565	98	365836	53.695	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.400%			
62) 4-Bromofluorobenzene	12.847	95	152632	57.463	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 114.920%			
Target Compounds						Qvalue

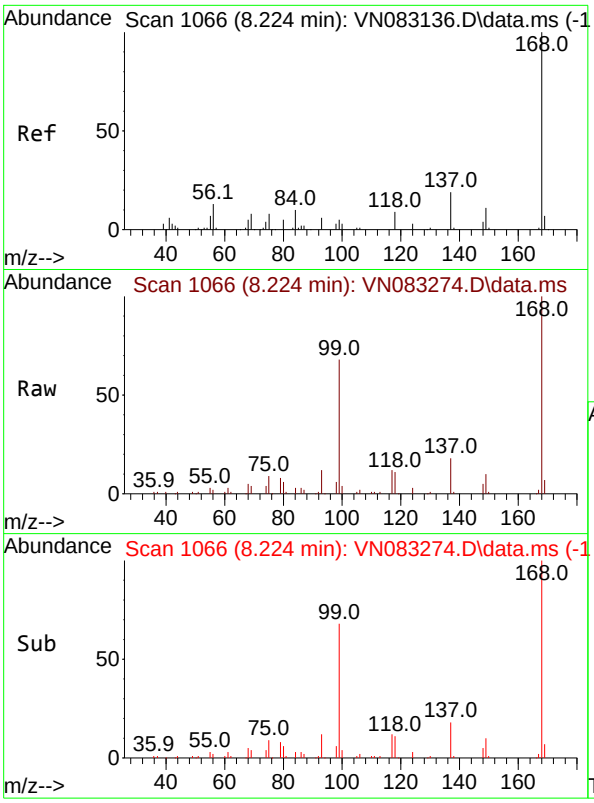
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083274.D
Acq On : 14 Aug 2024 03:22
Operator : JC\MD
Sample : VN0813WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL02

Quant Time: Aug 14 04:44:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration



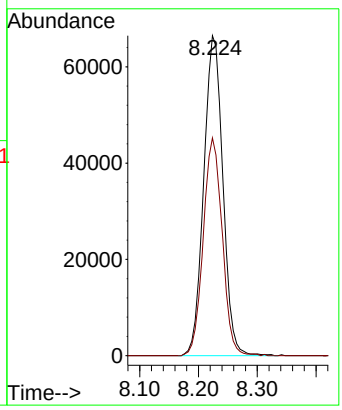


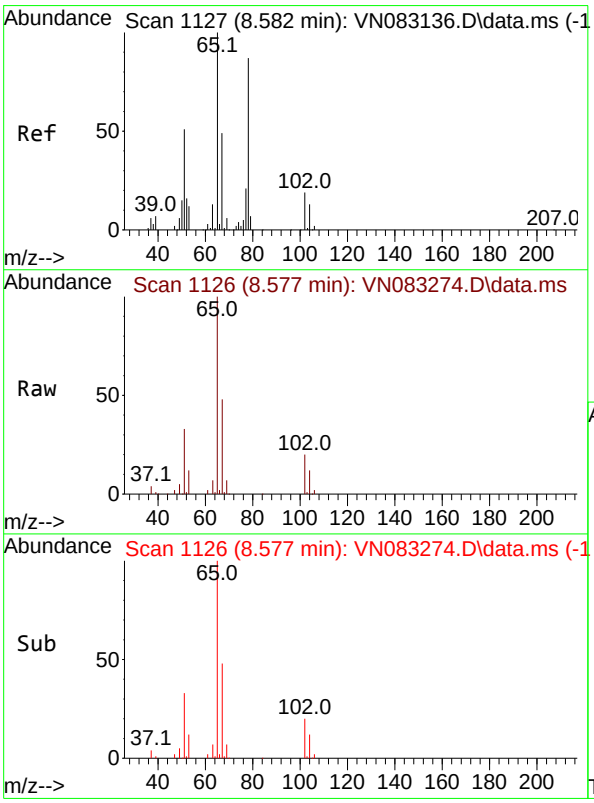
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL02

Tgt Ion:168 Resp: 150257

Ion	Ratio	Lower	Upper
168	100		
99	68.1	48.2	72.4

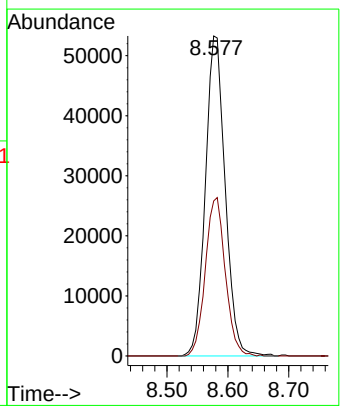


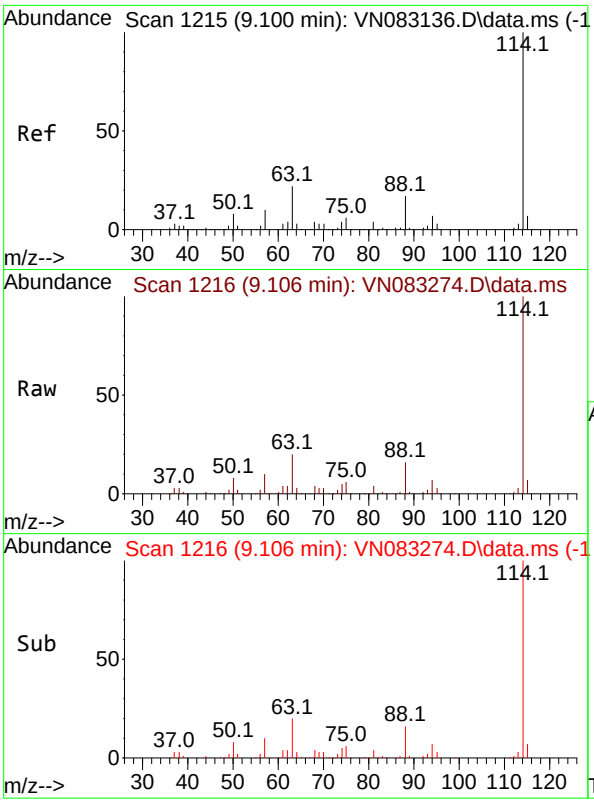


#33
1,2-Dichloroethane-d4
Concen: 56.224 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

Tgt Ion: 65 Resp: 120249

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	104.4



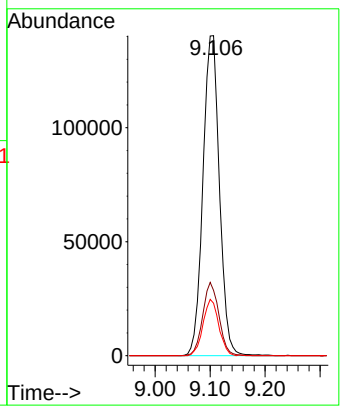


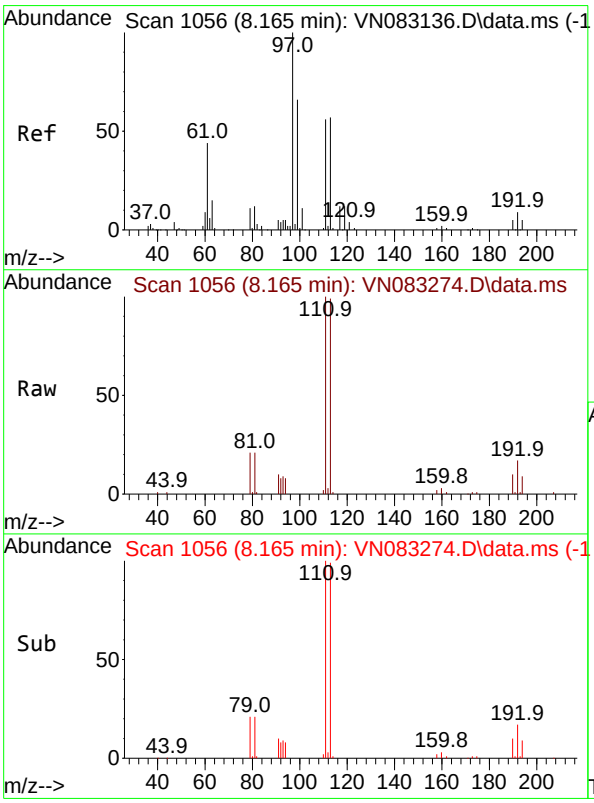
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL02

Tgt Ion:114 Resp: 292620

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	44.6
88	16.4	0.0	31.4

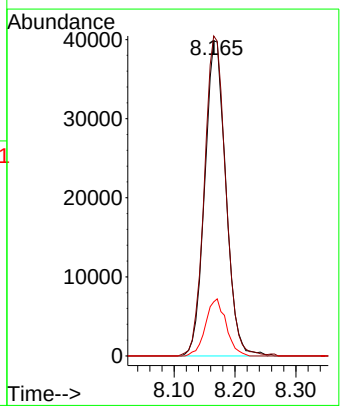


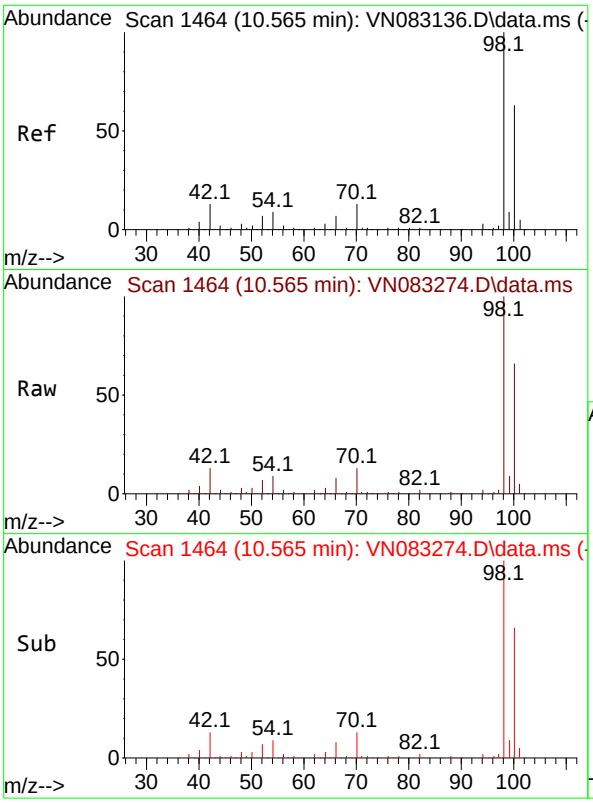


#35
Dibromofluoromethane
Concen: 52.468 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

Tgt Ion:113 Resp: 95831

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.4	123.6
192	17.7	14.9	22.3



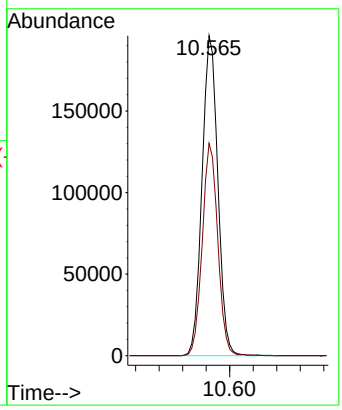


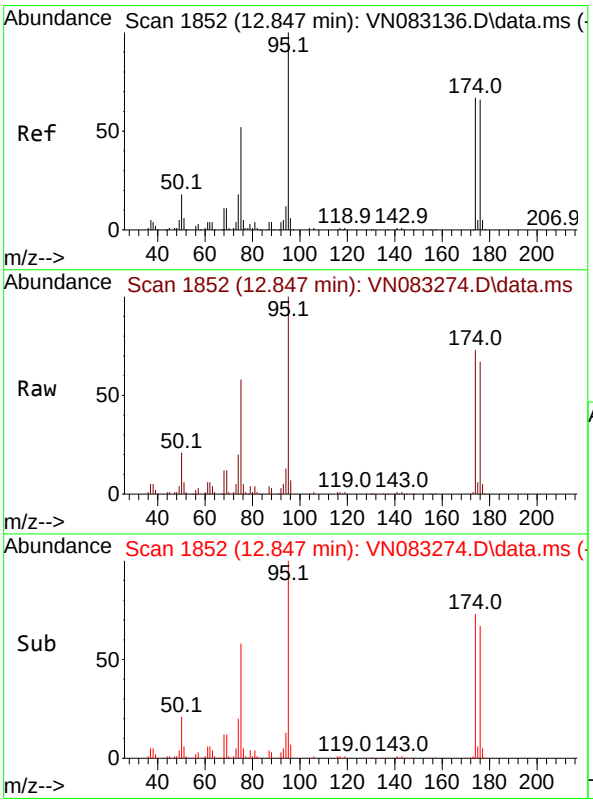
#50
Toluene-d8
Concen: 53.695 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL02

Tgt Ion: 98 Resp: 365836

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.5	77.3

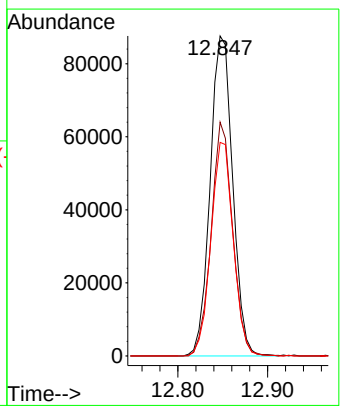


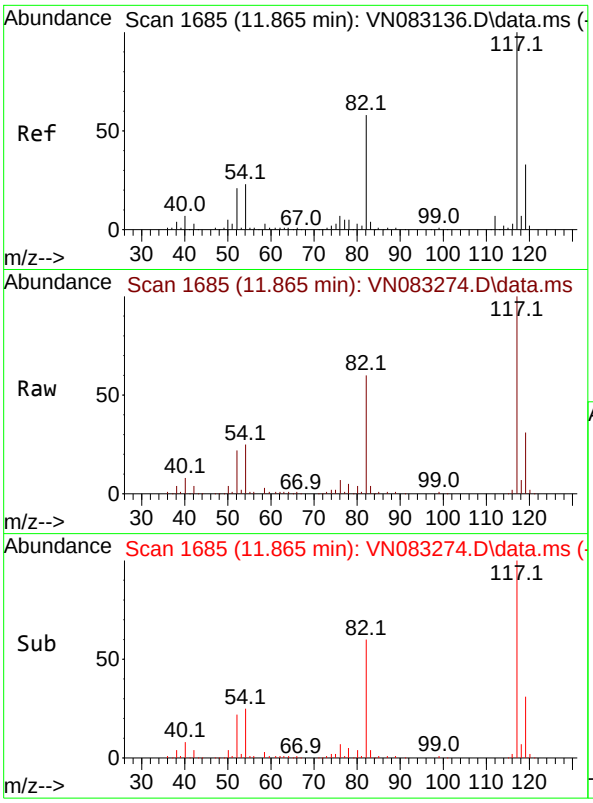


#62
4-Bromofluorobenzene
Concen: 57.463 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

Tgt Ion: 95 Resp: 152632

Ion	Ratio	Lower	Upper
95	100		
174	69.6	0.0	159.2
176	66.3	0.0	147.6



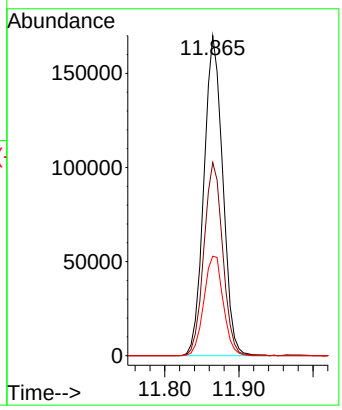


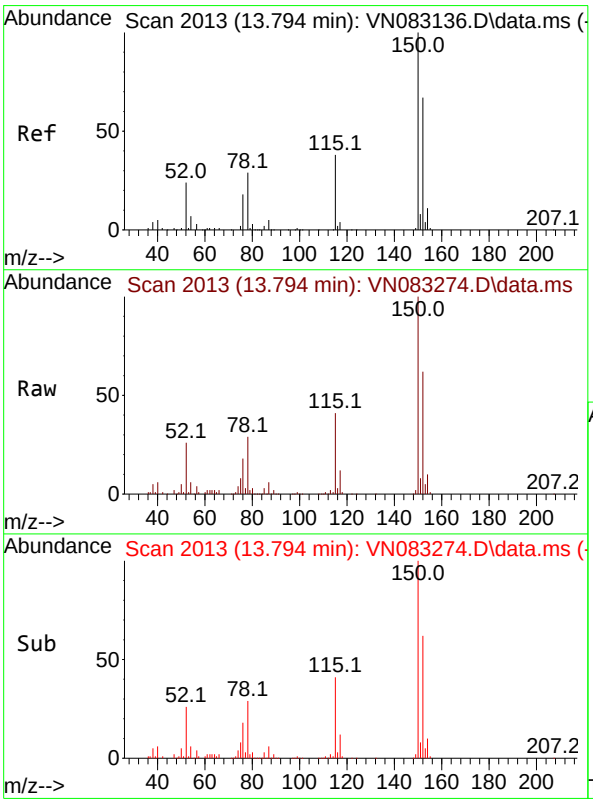
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL02

Tgt Ion:117 Resp: 300089

Ion	Ratio	Lower	Upper
117	100		
82	60.3	47.5	71.3
119	31.1	25.6	38.4

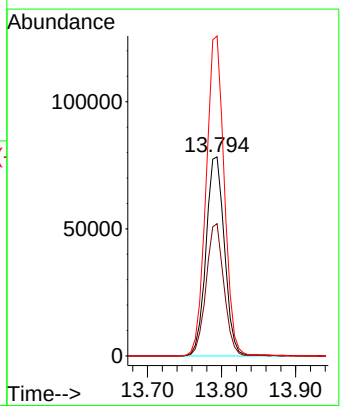




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

Tgt Ion:152 Resp: 135334

Ion	Ratio	Lower	Upper
152	100		
115	64.2	30.6	91.6
150	158.5	0.0	348.6



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:	VN0813WBS03	SDG No.:	P3451
Lab Sample ID:	VN0813WBS03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083276.D	1		08/14/24 04:10	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.3		0.21	1.00	ug/L
74-87-3	Chloromethane	18.7		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.6		0.34	1.00	ug/L
74-83-9	Bromomethane	19.0		1.40	5.00	ug/L
75-00-3	Chloroethane	20.5		0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.26	1.00	ug/L
67-64-1	Acetone	90.7		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.3		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.4		0.16	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.1		1.60	5.00	ug/L
78-93-3	2-Butanone	93.9		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.3		0.25	1.00	ug/L
67-66-3	Chloroform	20.6		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.0		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.5		0.19	1.00	ug/L
71-43-2	Benzene	19.6		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.5		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	19.6		0.24	1.00	ug/L
108-88-3	Toluene	19.2		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.5		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	20.1		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	20.1		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.16	1.00	ug/L

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:	VN0813WBS03	SDG No.:	P3451
Lab Sample ID:	VN0813WBS03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083276.D	1		08/14/24 04:10	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	38.8		0.31	2.00	ug/L
1330-20-7	Total Xylenes	58.5		0.45	3.00	ug/L
95-47-6	o-Xylene	19.7		0.14	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.9		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.4		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.2		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	54.1		70 (75) - 130 (124)	108%	SPK: 50
2037-26-5	Toluene-d8	54.2		70 (86) - 130 (113)	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	8.224			
540-36-3	1,4-Difluorobenzene	288000	9.1			
3114-55-4	Chlorobenzene-d5	245000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.794			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083276.D
Acq On : 14 Aug 2024 04:10
Operator : JC\MD
Sample : VN0813WBS03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 14 04:46:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	163931	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	287598	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	244933	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	114554	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	133576	57.246	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.500%			
35) Dibromofluoromethane	8.165	113	97126	54.105	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.220%			
50) Toluene-d8	10.570	98	362852	54.187	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.380%			
62) 4-Bromofluorobenzene	12.847	95	137472	52.660	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 105.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	34089	18.337	ug/l	97
3) Chloromethane	2.365	50	35501	18.653	ug/l	100
4) Vinyl Chloride	2.518	62	38096	19.617	ug/l	97
5) Bromomethane	2.953	94	22880	18.987	ug/l	97
6) Chloroethane	3.118	64	24855	20.457	ug/l	99
7) Trichlorofluoromethane	3.494	101	64893	20.227	ug/l	98
8) Diethyl Ether	3.959	74	22857	19.146	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.377	101	35250	19.929	ug/l	99
10) Methyl Iodide	4.589	142	38802	16.677	ug/l	92
11) Tert butyl alcohol	5.518	59	43702	90.122	ug/l	98
12) 1,1-Dichloroethene	4.341	96	34107	18.769	ug/l	89
13) Acrolein	4.183	56	22430	70.972	ug/l	97
14) Allyl chloride	5.030	41	53739	15.649	ug/l	94
15) Acrylonitrile	5.718	53	96132	96.392	ug/l	98
16) Acetone	4.430	43	82780	90.664	ug/l	99
17) Carbon Disulfide	4.712	76	86537	16.275	ug/l	100
18) Methyl Acetate	5.024	43	55252	20.311	ug/l	94
19) Methyl tert-butyl Ether	5.800	73	127570	19.449	ug/l	95
20) Methylene Chloride	5.277	84	40117	19.091	ug/l #	81
21) trans-1,2-Dichloroethene	5.788	96	35083	18.679	ug/l	86
22) Diisopropyl ether	6.671	45	129944	20.131	ug/l	95
23) Vinyl Acetate	6.606	43	632863	95.651	ug/l #	95
24) 1,1-Dichloroethane	6.565	63	71229	20.244	ug/l	99
25) 2-Butanone	7.482	43	131638	93.897	ug/l	95
26) 2,2-Dichloropropane	7.494	77	43342	13.264	ug/l	98
27) cis-1,2-Dichloroethene	7.482	96	43758	19.307	ug/l	90
28) Bromochloromethane	7.812	49	26160	18.193	ug/l	90
29) Tetrahydrofuran	7.841	42	87153	96.167	ug/l	89
30) Chloroform	7.971	83	75140	20.556	ug/l	98
31) Cyclohexane	8.253	56	62468	18.065	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	69276	20.022	ug/l	96
36) 1,1-Dichloropropene	8.371	75	50932	18.756	ug/l	99
37) Ethyl Acetate	7.559	43	53362	17.551	ug/l	95
38) Carbon Tetrachloride	8.365	117	60557	19.799	ug/l	99
39) Methylcyclohexane	9.600	83	58313	17.483	ug/l	92
40) Benzene	8.606	78	158212	19.557	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083276.D
Acq On : 14 Aug 2024 04:10
Operator : JC\MD
Sample : VN0813WBS03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 14 04:46:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	30123	17.425	ug/l		94
42) 1,2-Dichloroethane	8.671	62	60727	20.607	ug/l		98
43) Isopropyl Acetate	8.688	43	104783	18.450	ug/l		97
44) Trichloroethene	9.353	130	37538	19.495	ug/l		100
45) 1,2-Dichloropropane	9.623	63	39295	20.464	ug/l		95
46) Dibromomethane	9.712	93	27427	19.955	ug/l		99
47) Bromodichloromethane	9.888	83	60383	19.566	ug/l		97
48) Methyl methacrylate	9.682	41	43935	17.478	ug/l	#	90
49) 1,4-Dioxane	9.694	88	16735	369.020	ug/l		98
51) 4-Methyl-2-Pentanone	10.447	43	279412	97.180	ug/l		94
52) Toluene	10.629	92	98181	19.209	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	57201	18.044	ug/l		97
54) cis-1,3-Dichloropropene	10.312	75	60905	18.063	ug/l	#	87
55) 1,1,2-Trichloroethane	11.018	97	37469	20.455	ug/l		98
56) Ethyl methacrylate	10.876	69	65633	19.007	ug/l	#	85
57) 1,3-Dichloropropane	11.165	76	64276	19.687	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	138157	94.650	ug/l		96
59) 2-Hexanone	11.194	43	207806	93.423	ug/l		93
60) Dibromochloromethane	11.359	129	44526	20.105	ug/l		97
61) 1,2-Dibromoethane	11.470	107	37905	19.699	ug/l		100
64) Tetrachloroethene	11.106	164	32561	20.073	ug/l		97
65) Chlorobenzene	11.888	112	106146	19.611	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	38528	20.183	ug/l		97
67) Ethyl Benzene	11.965	91	194254	19.563	ug/l		99
68) m/p-Xylenes	12.070	106	144204	38.770	ug/l		97
69) o-Xylene	12.400	106	72430	19.744	ug/l		99
70) Styrene	12.412	104	119958	19.470	ug/l		98
71) Bromoform	12.576	173	27583	19.073	ug/l	#	98
73) Isopropylbenzene	12.694	105	183586	19.160	ug/l		99
74) N-amyl acetate	12.494	43	83867	17.895	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.935	83	53757	19.837	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	47050m	18.714	ug/l		
77) Bromobenzene	12.982	156	41635	19.561	ug/l		96
78) n-propylbenzene	13.035	91	211685	19.187	ug/l		100
79) 2-Chlorotoluene	13.123	91	137489	19.656	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	154286	19.233	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.735	75	16220	14.033	ug/l		98
82) 4-Chlorotoluene	13.223	91	134043	19.104	ug/l		96
83) tert-Butylbenzene	13.441	119	137808	19.399	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	154805	19.149	ug/l		100
85) sec-Butylbenzene	13.617	105	183957	18.978	ug/l		100
86) p-Isopropyltoluene	13.729	119	154726	19.332	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	75232	18.784	ug/l		97
88) 1,4-Dichlorobenzene	13.811	146	76298	18.897	ug/l		96
89) n-Butylbenzene	14.053	91	128512	18.531	ug/l		100
90) Hexachloroethane	14.335	117	28062	18.148	ug/l		93
91) 1,2-Dichlorobenzene	14.106	146	75067	19.369	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12122	18.433	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	39783	18.323	ug/l		98
94) Hexachlorobutadiene	15.500	225	16158	16.733	ug/l		99
95) Naphthalene	15.641	128	139064	18.081	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	38544	17.941	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083276.D
Acq On : 14 Aug 2024 04:10
Operator : JC\MD
Sample : VN0813WBS03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 14 04:46:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

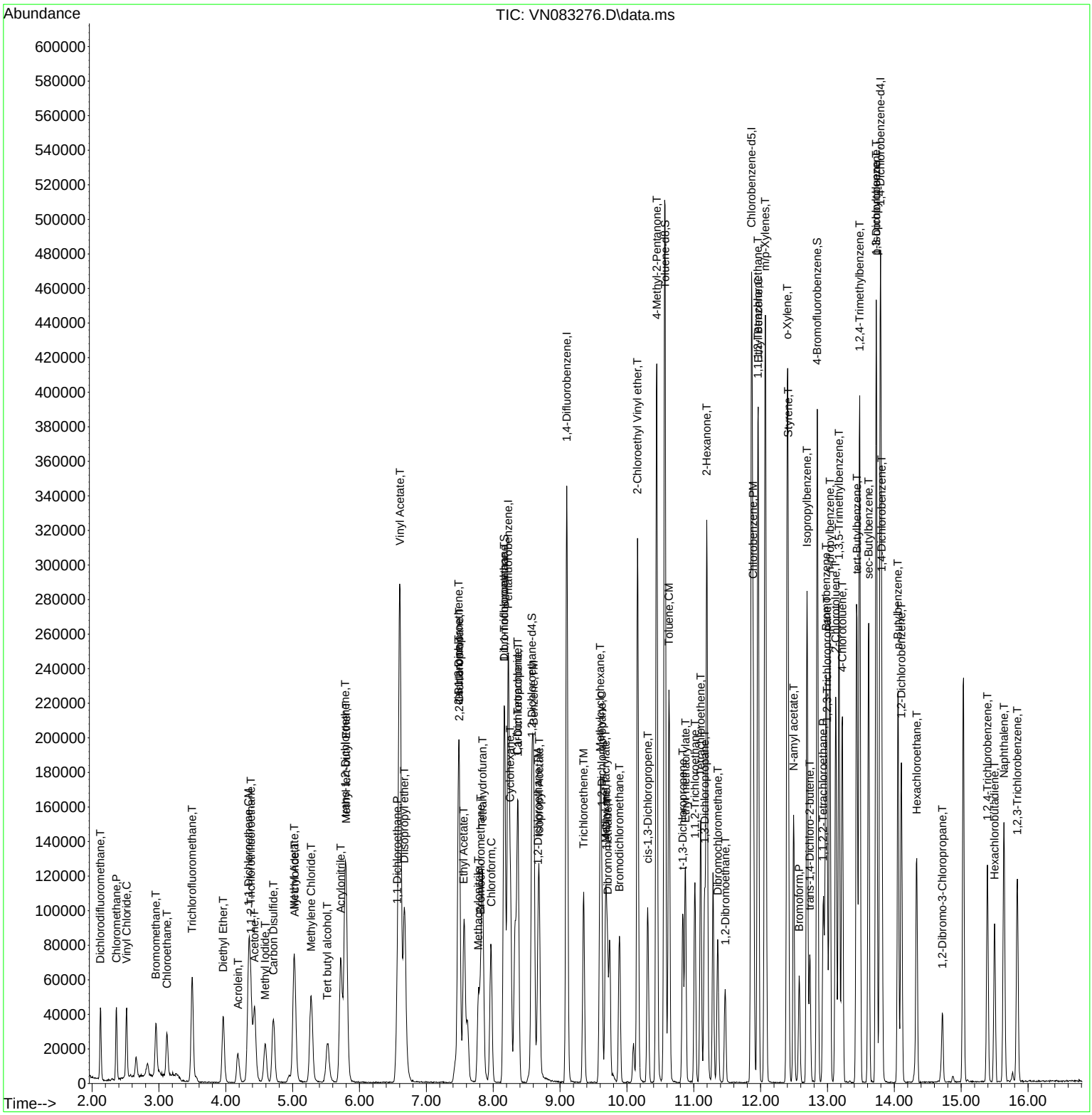
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Acq On : 14 Aug 2024 04:10
Operator : JC\MD
Sample : VN0813WBS03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 37 Sample Multiplier: 1

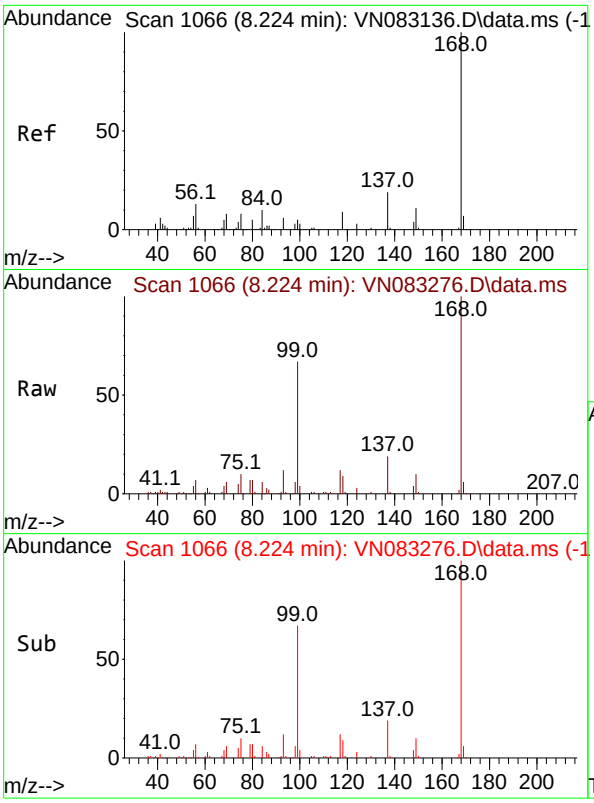
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2024
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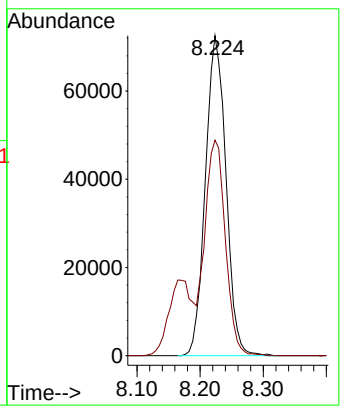




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:168 Resp: 16393

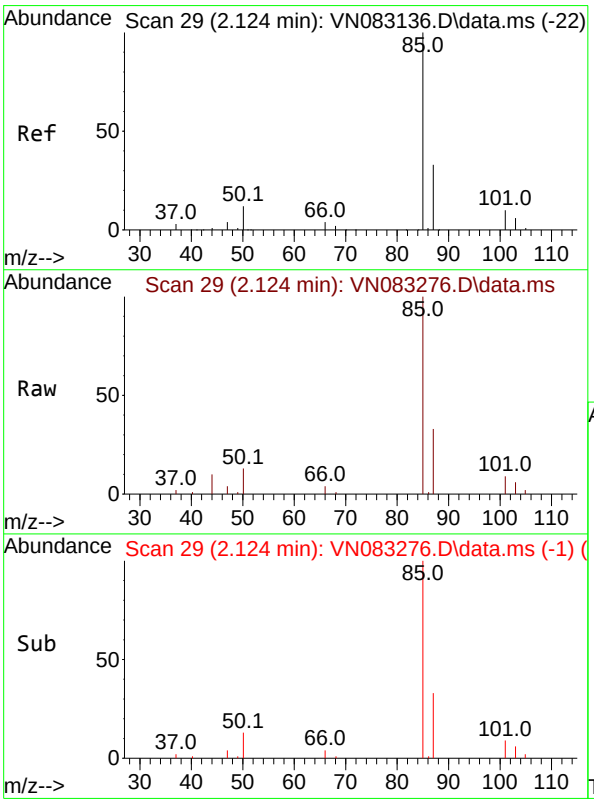
Ion	Ratio	Lower	Upper
168	100		
99	67.4	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

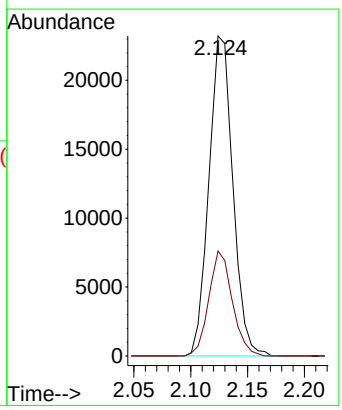
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

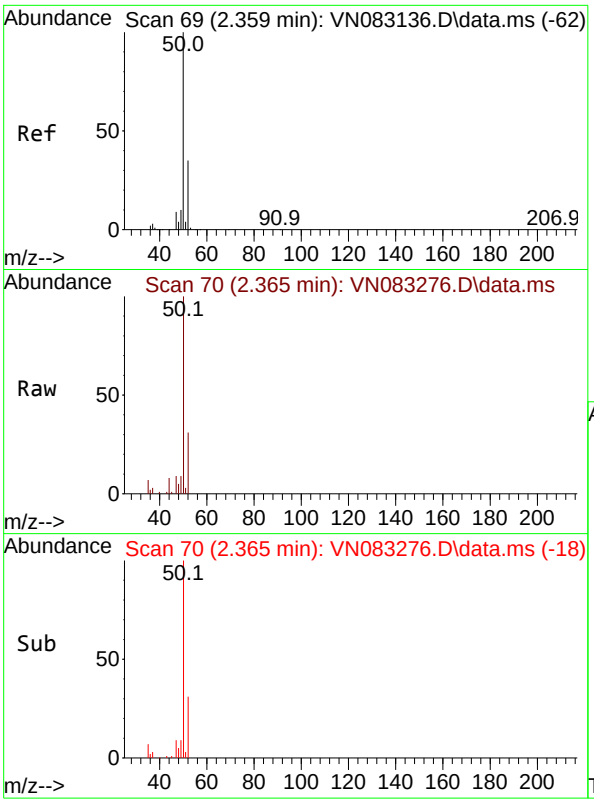


#2
Dichlorodifluoromethane
Concen: 18.337 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 85 Resp: 34089

Ion	Ratio	Lower	Upper
85	100		
87	32.8	15.7	47.0

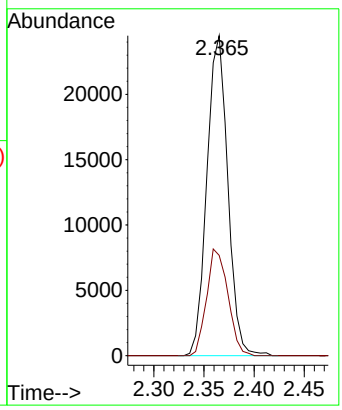




#3
Chloromethane
Concen: 18.653 ug/l
RT: 2.365 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 50 Resp: 3550

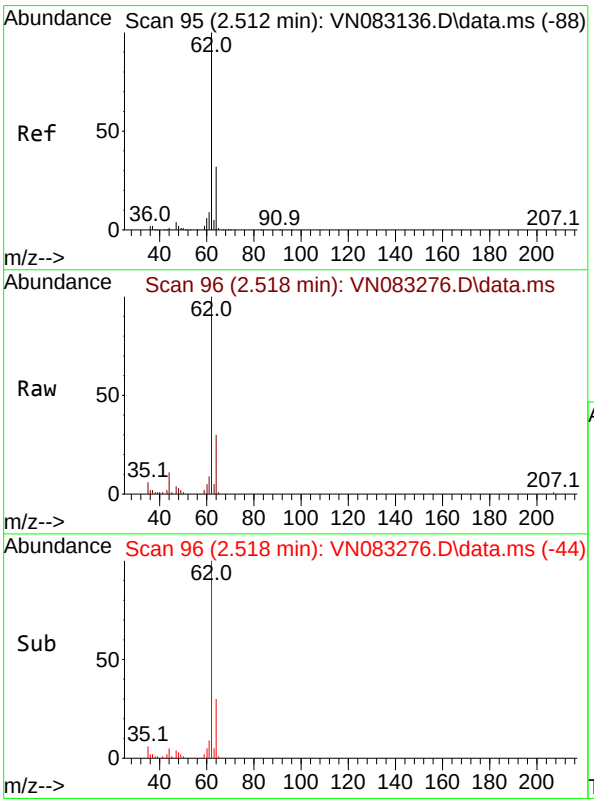
Ion	Ratio	Lower	Upper
50	100		
52	31.4	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations APPROVED

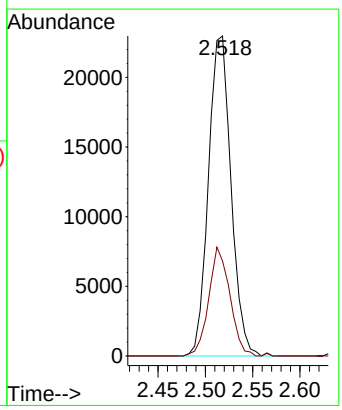
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

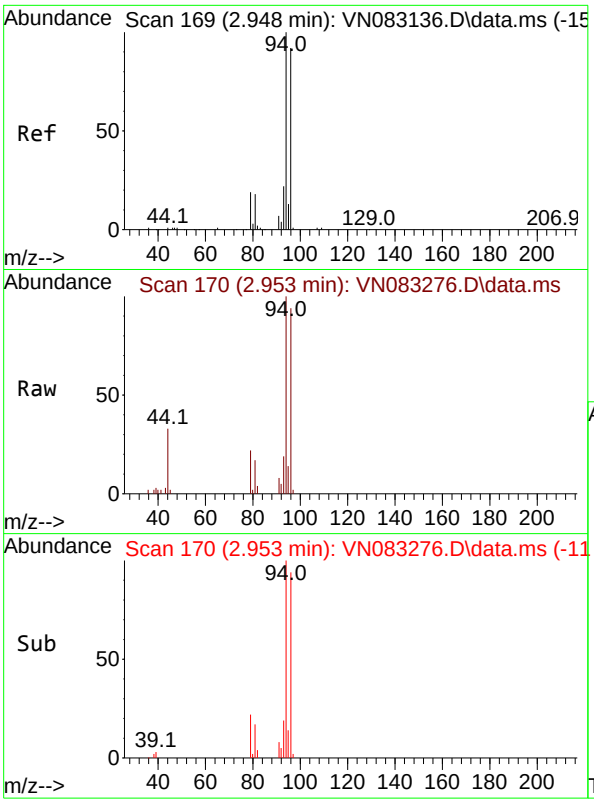


#4
Vinyl Chloride
Concen: 19.617 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 62 Resp: 38096

Ion	Ratio	Lower	Upper
62	100		
64	29.7	25.0	37.6

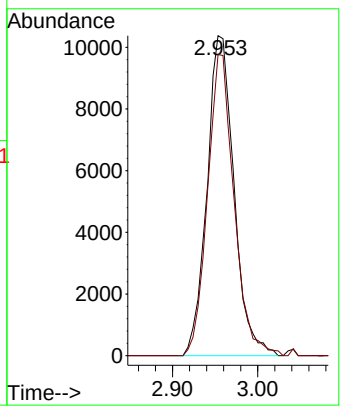




#5
Bromomethane
Concen: 18.987 ug/l
RT: 2.953 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 94 Resp: 2288

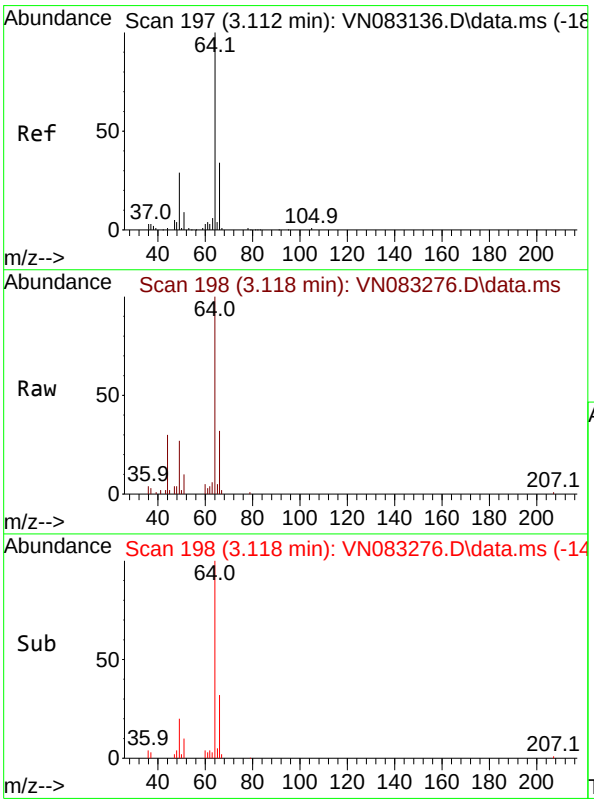
Ion	Ratio	Lower	Upper
94	100		
96	94.1	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

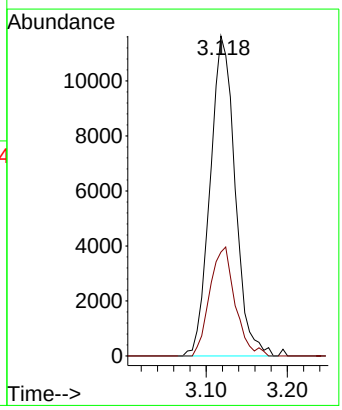
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

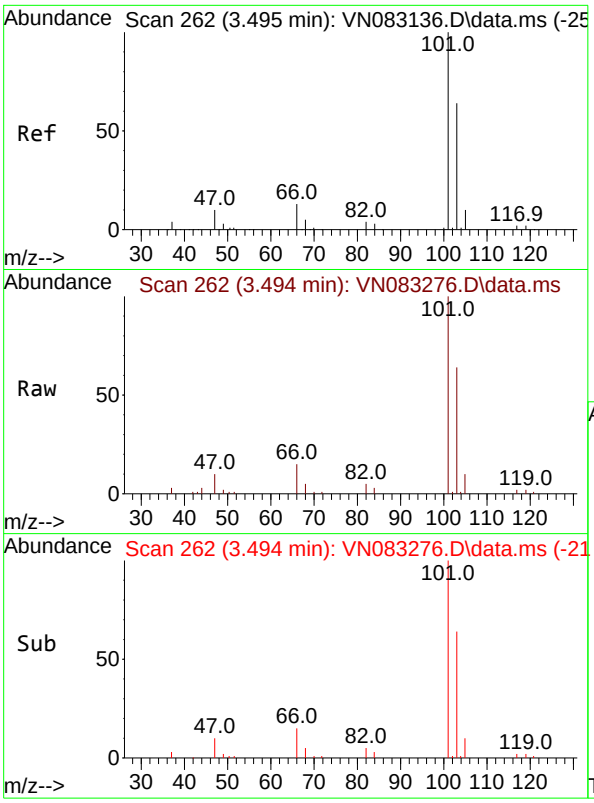


#6
Chloroethane
Concen: 20.457 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 64 Resp: 24855

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.6	40.0

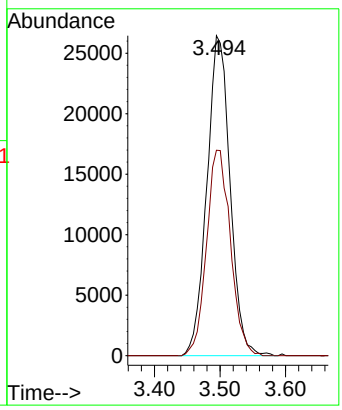




#7
Trichlorofluoromethane
Concen: 20.227 ug/l
RT: 3.494 min Scan# 2
Delta R.T. -0.001 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:101 Resp: 6489

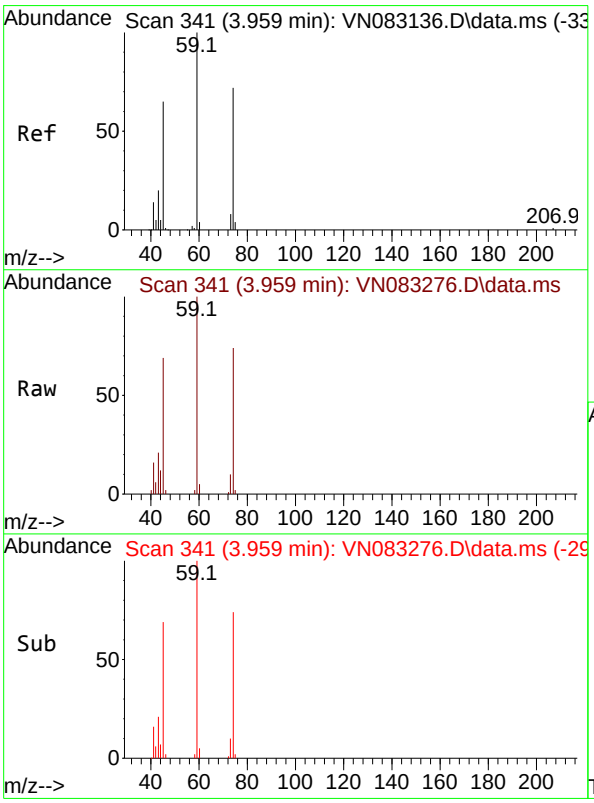
Ion	Ratio	Lower	Upper
101	100		
103	64.2	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

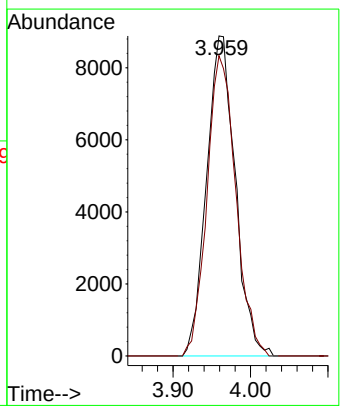
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

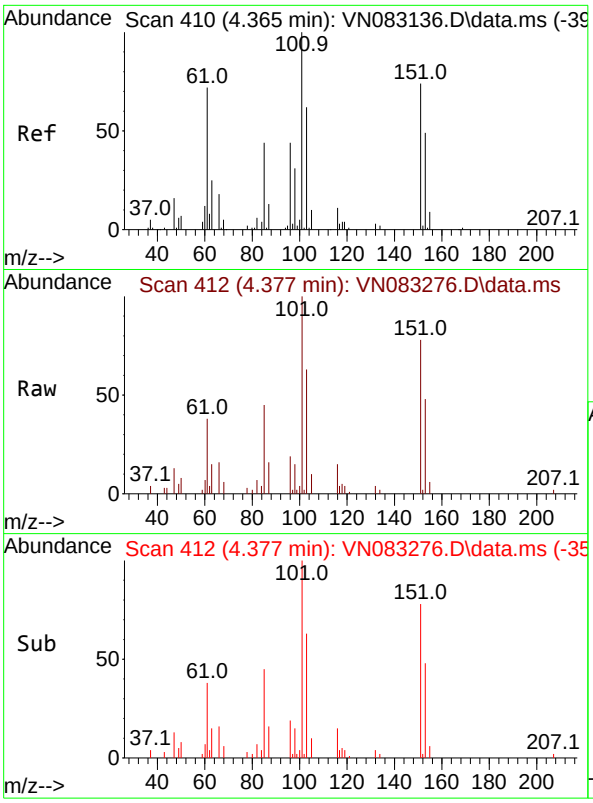


#8
Diethyl Ether
Concen: 19.146 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 74 Resp: 22857

Ion	Ratio	Lower	Upper
74	100		
45	94.2	55.5	166.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.929 ug/l
RT: 4.377 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

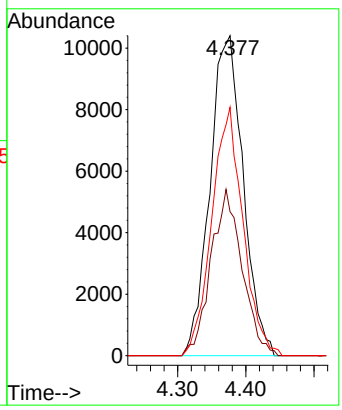
Tgt Ion:101 Resp: 3525

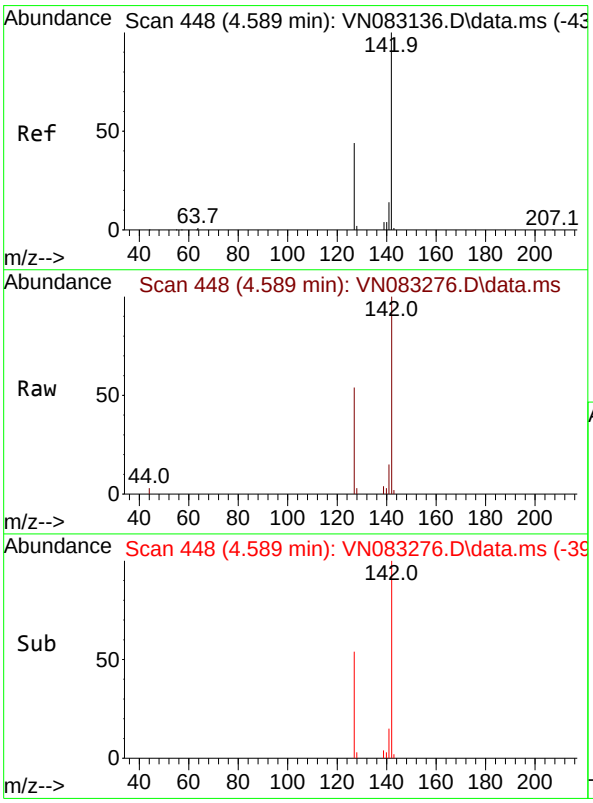
Ion	Ratio	Lower	Upper
101	100		
85	48.9	38.3	57.5
151	73.0	59.3	88.9

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

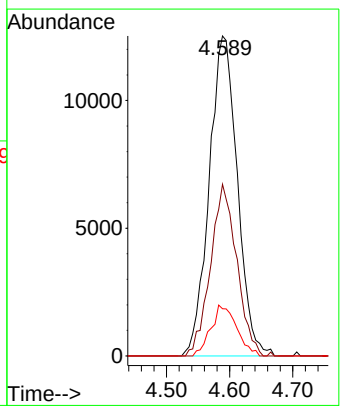


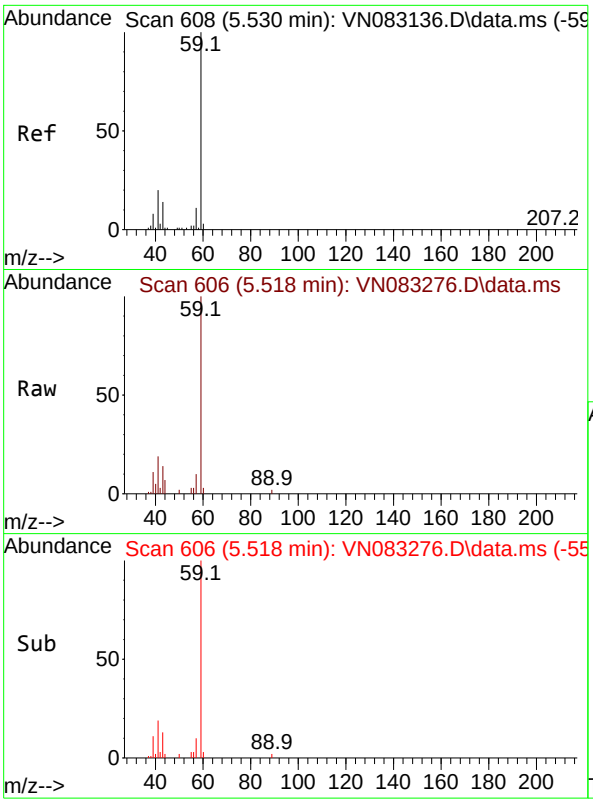


#10
Methyl Iodide
Concen: 16.677 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:142 Resp: 38802

Ion	Ratio	Lower	Upper
142	100		
127	53.6	37.5	56.3
141	14.8	13.1	19.7





#11
Tert butyl alcohol
Concen: 90.122 ug/l
RT: 5.518 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

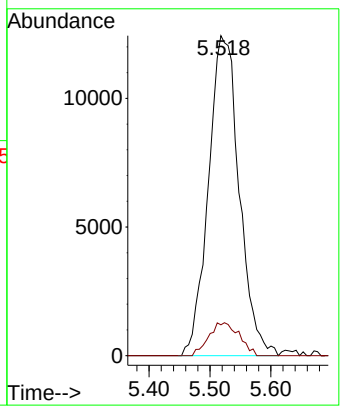
Tgt Ion: 59 Resp: 4370

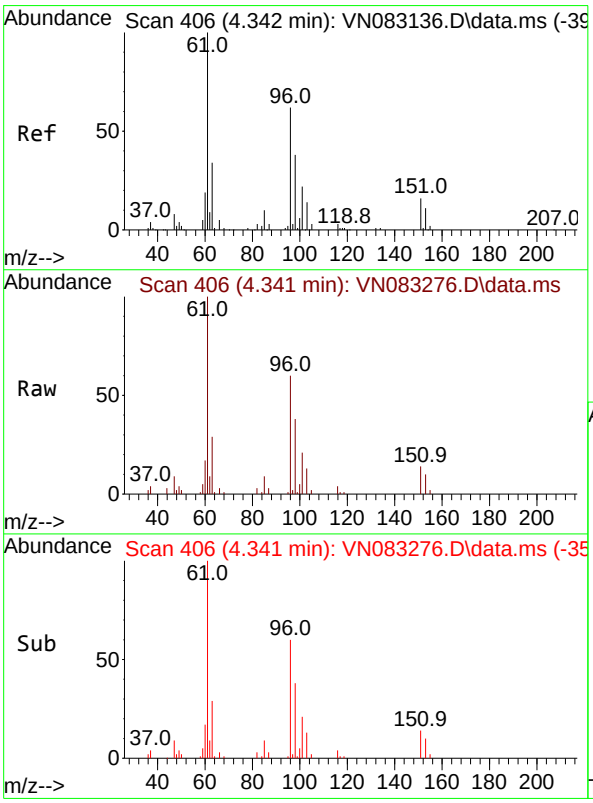
Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.9	13.3

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

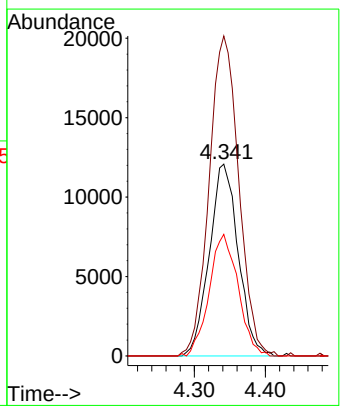


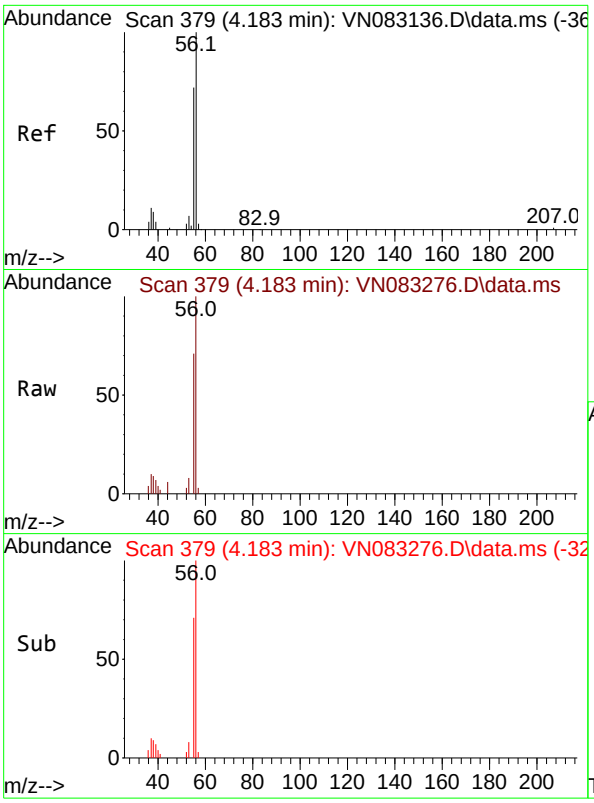


#12
1,1-Dichloroethene
Concen: 18.769 ug/l
RT: 4.341 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 96 Resp: 34107

Ion	Ratio	Lower	Upper
96	100		
61	166.8	149.7	224.5
98	63.4	50.1	75.1

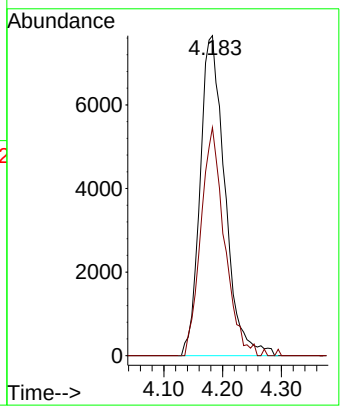




#13
Acrolein
Concen: 70.972 ug/l
RT: 4.183 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 56 Resp: 2243

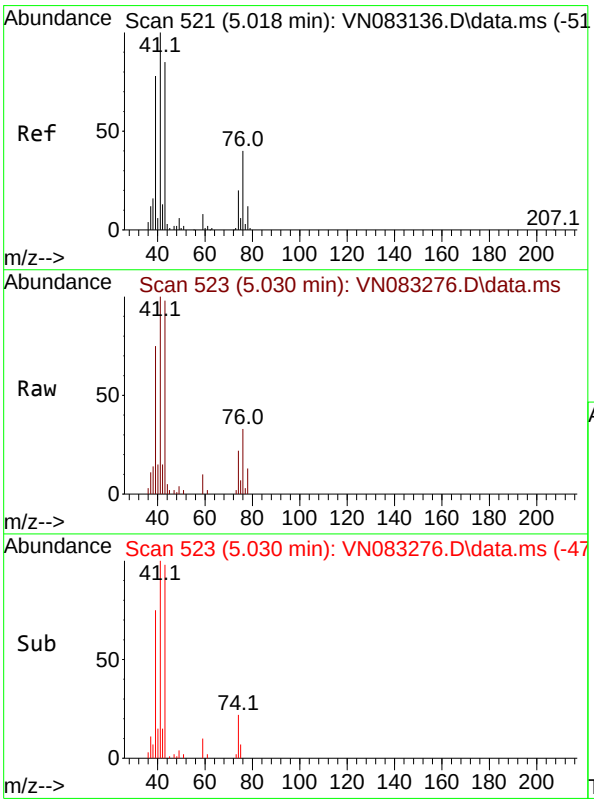
Ion	Ratio	Lower	Upper
56	100		
55	67.9	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

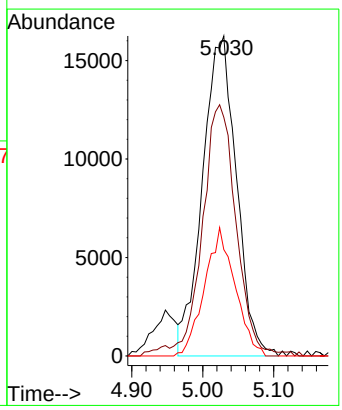
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

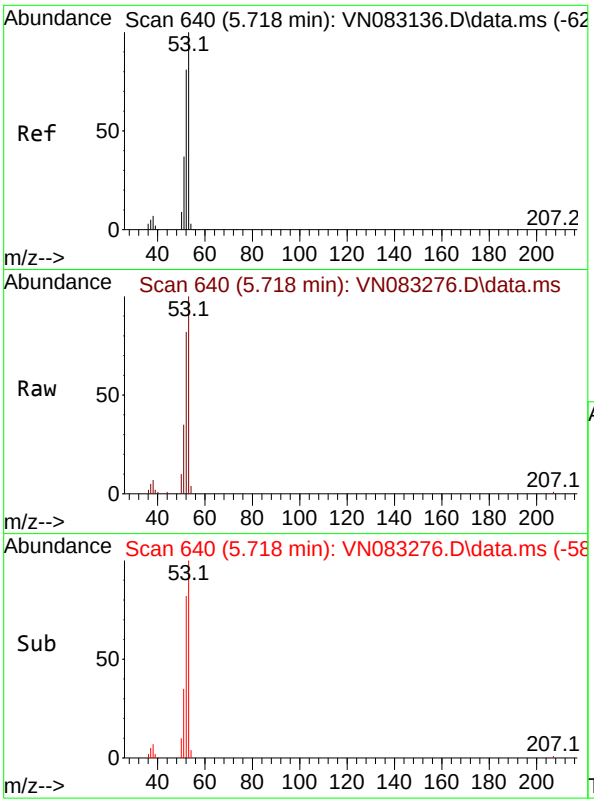


#14
Allyl chloride
Concen: 15.649 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 41 Resp: 53739

Ion	Ratio	Lower	Upper
41	100		
39	79.3	67.8	101.6
76	36.2	25.8	38.8





#15
Acrylonitrile
Concen: 96.392 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

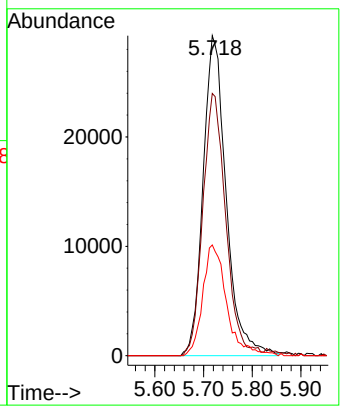
Tgt Ion: 53 Resp: 9613

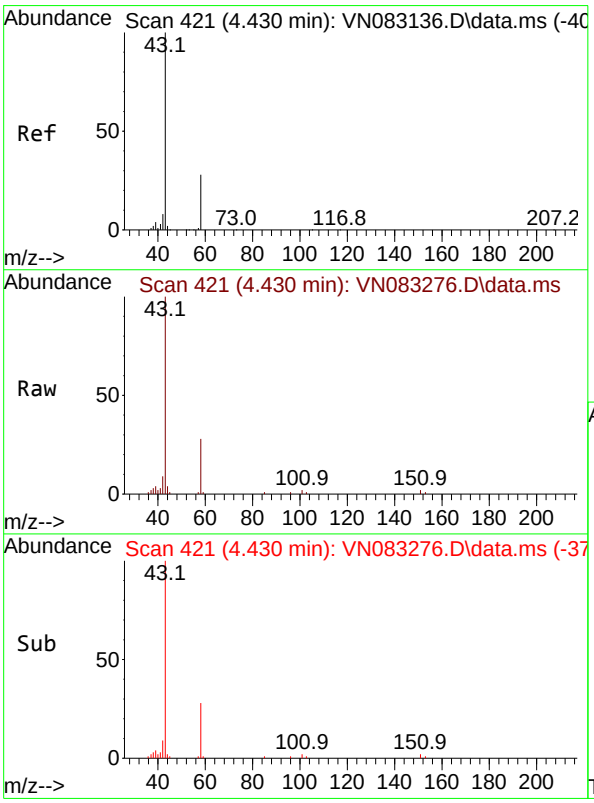
Ion	Ratio	Lower	Upper
53	100		
52	81.5	66.6	100.0
51	35.8	30.1	45.1

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

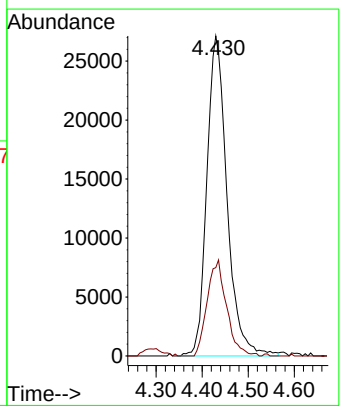


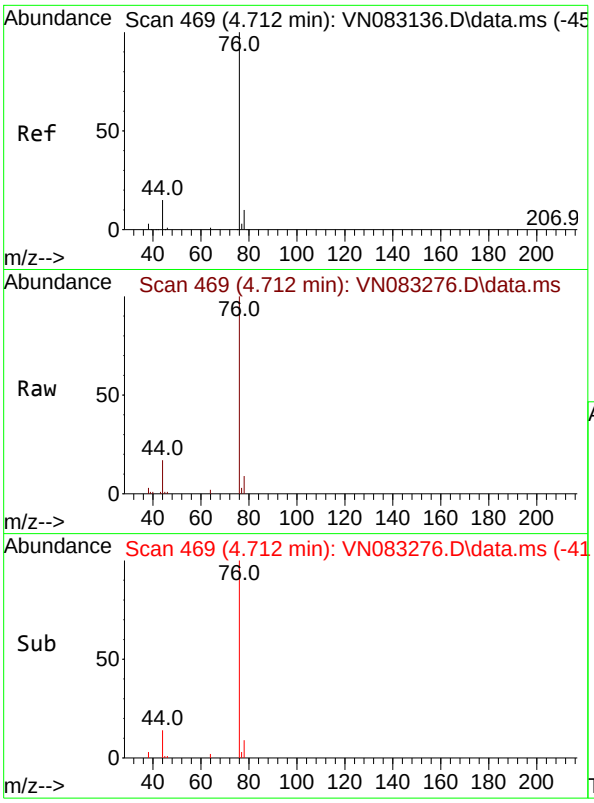


#16
Acetone
Concen: 90.664 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 43 Resp: 82780

Ion	Ratio	Lower	Upper
43	100		
58	27.6	21.8	32.6

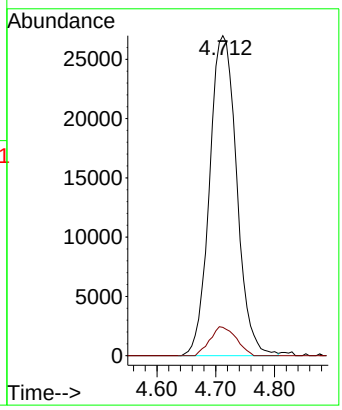




#17
Carbon Disulfide
Concen: 16.275 ug/l
RT: 4.712 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 76 Resp: 8653

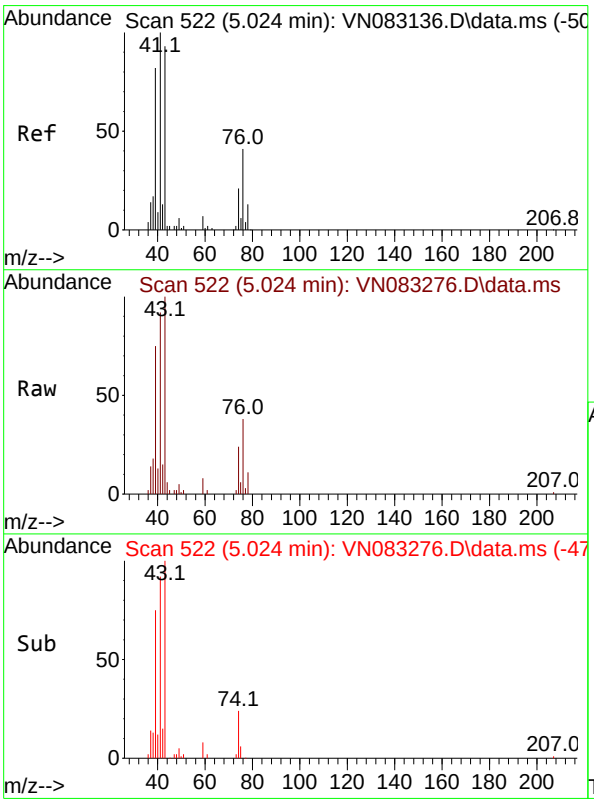
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations APPROVED

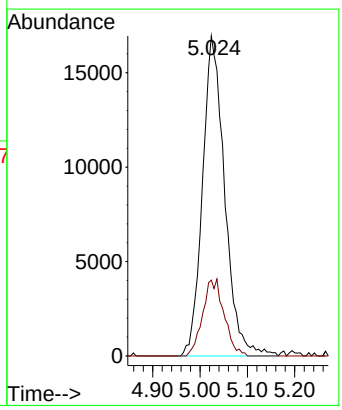
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

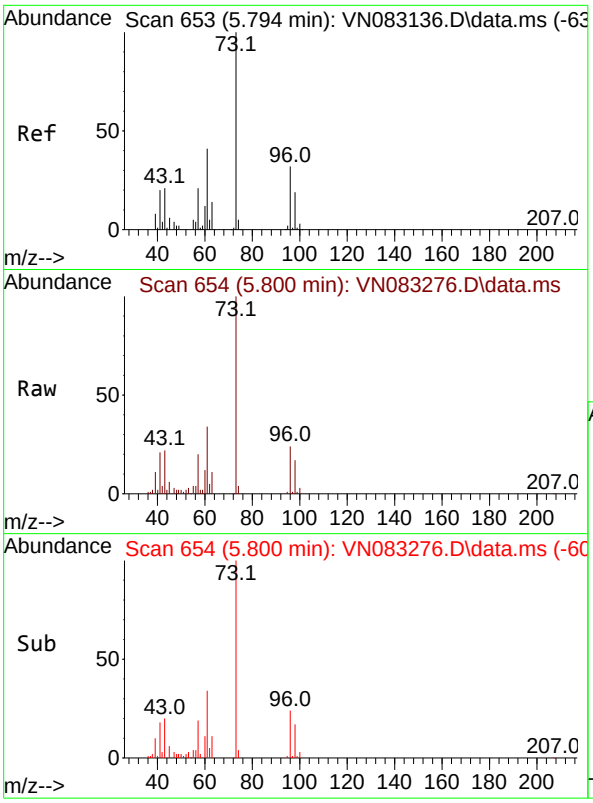


#18
Methyl Acetate
Concen: 20.311 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 43 Resp: 55252

Ion	Ratio	Lower	Upper
43	100		
74	23.1	16.3	24.5

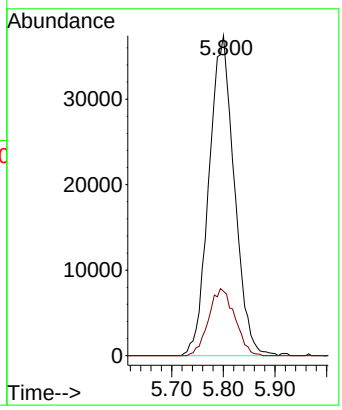




#19
Methyl tert-butyl Ether
Concen: 19.449 ug/l
RT: 5.800 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 73 Resp: 12757

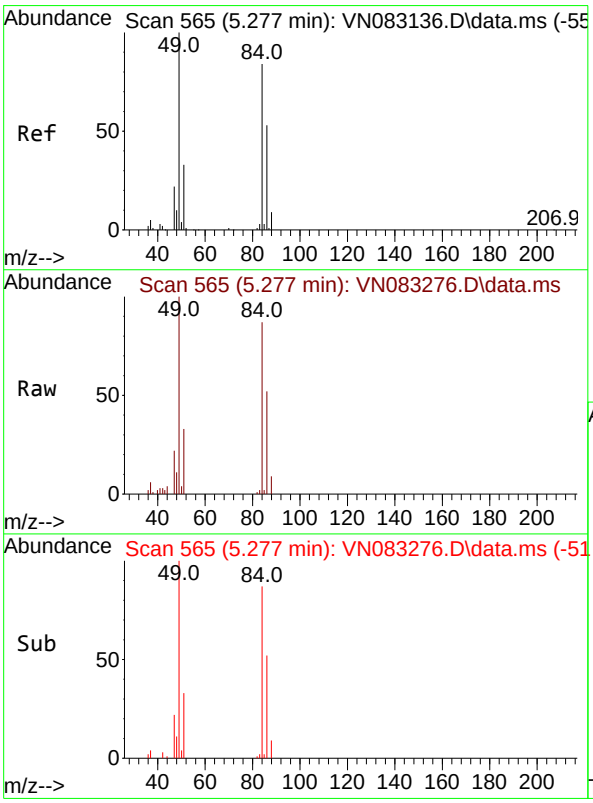
Ion	Ratio	Lower	Upper
73	100		
57	20.1	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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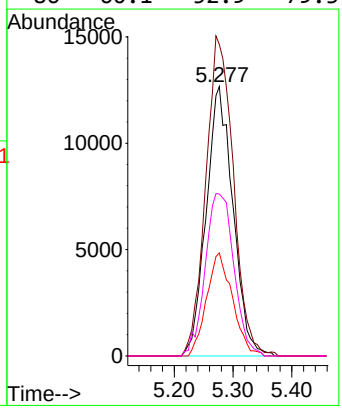
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

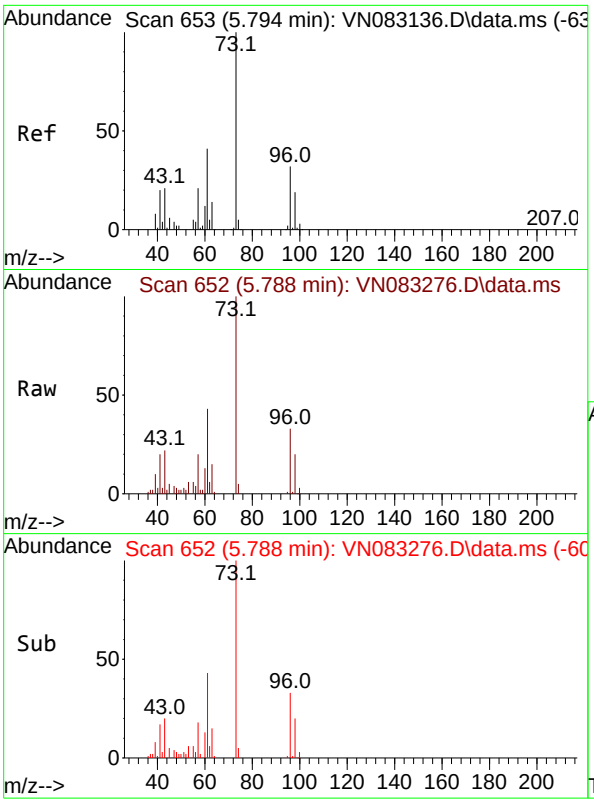


#20
Methylene Chloride
Concen: 19.091 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 84 Resp: 40117

Ion	Ratio	Lower	Upper
84	100		
49	115.6	119.6	179.4#
51	38.2	34.8	52.2
86	60.1	52.9	79.3





#21
trans-1,2-Dichloroethene
Concen: 18.679 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

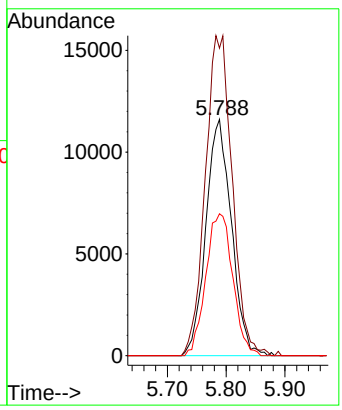
Tgt Ion: 96 Resp: 3508

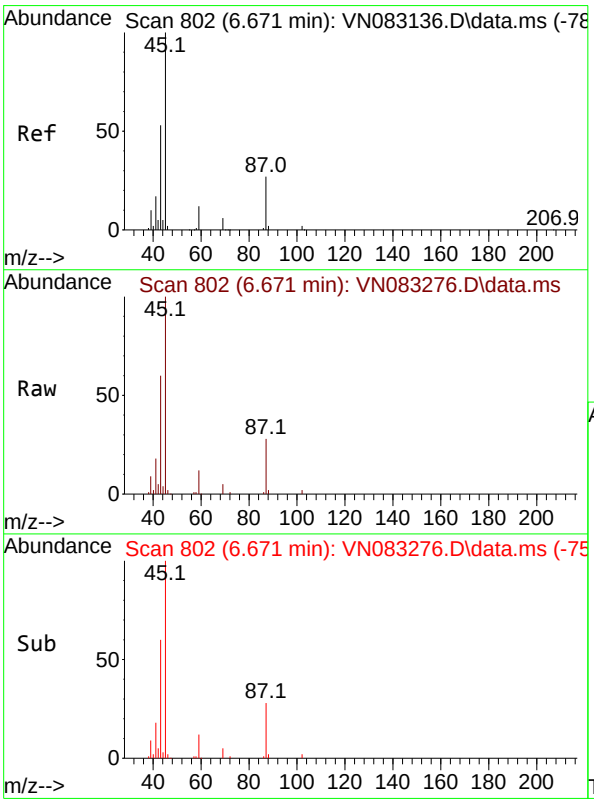
Ion	Ratio	Lower	Upper
96	100		
61	130.2	123.4	185.2
98	60.1	49.3	73.9

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

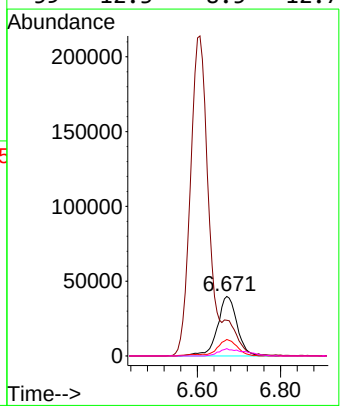


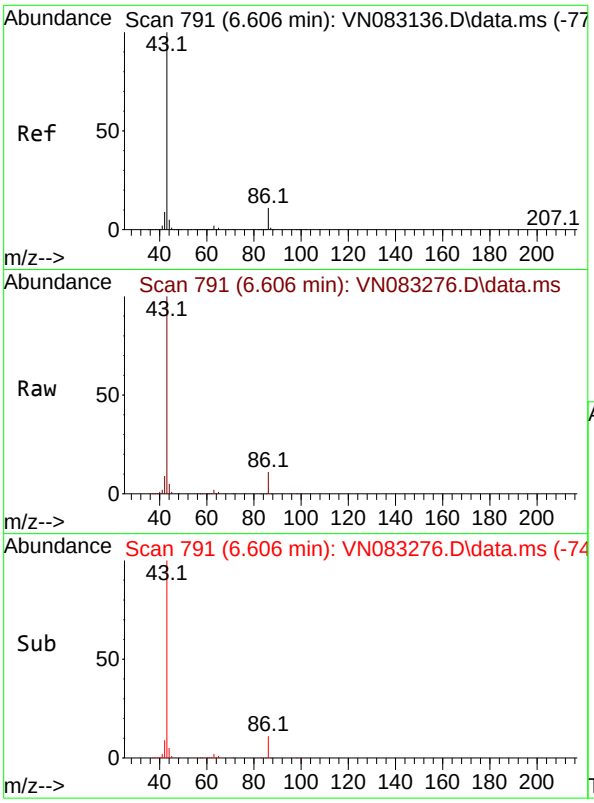


#22
Diisopropyl ether
Concen: 20.131 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 45 Resp: 129944

Ion	Ratio	Lower	Upper
45	100		
43	58.8	44.0	66.0
87	27.8	19.7	29.5
59	12.3	8.5	12.7





#23
Vinyl Acetate
Concen: 95.651 ug/l
RT: 6.606 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

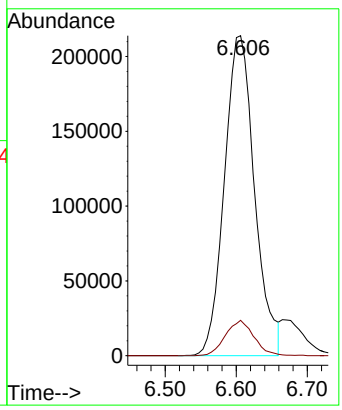
Tgt Ion: 43 Resp: 63286

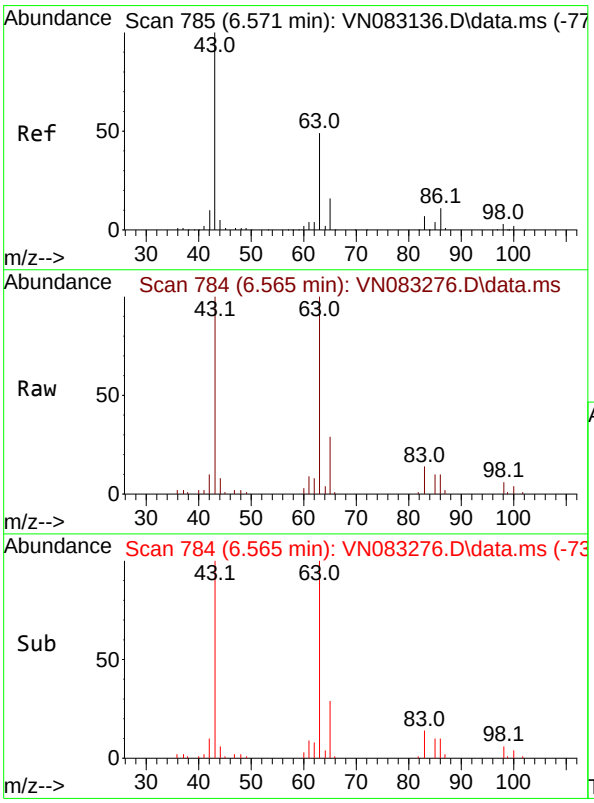
Ion	Ratio	Lower	Upper
43	100		
86	11.0	7.3	10.9#

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

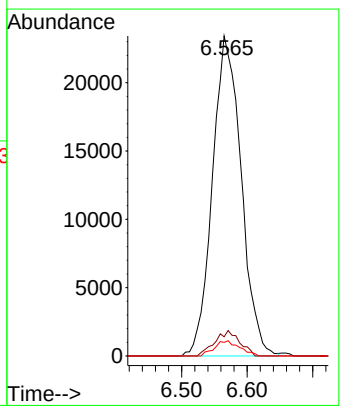


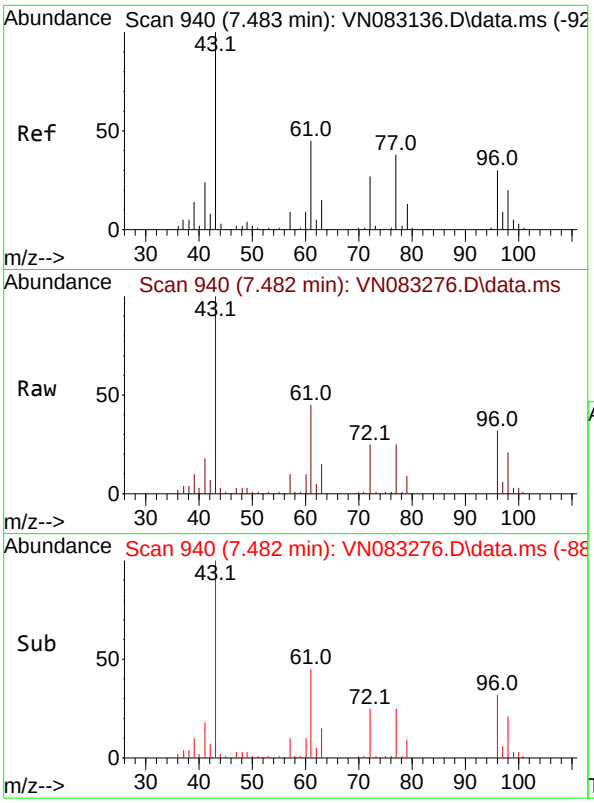


#24
1,1-Dichloroethane
Concen: 20.244 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 63 Resp: 71229

Ion	Ratio	Lower	Upper
63	100		
98	6.0	3.3	9.9
100	4.3	2.0	6.0

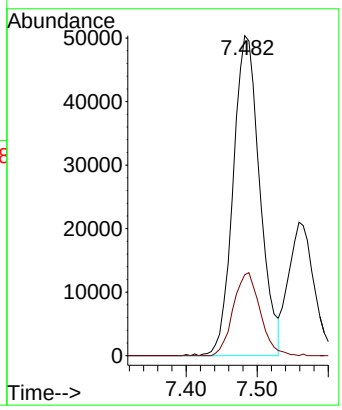




#25
2-Butanone
Concen: 93.897 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 43 Resp: 13163

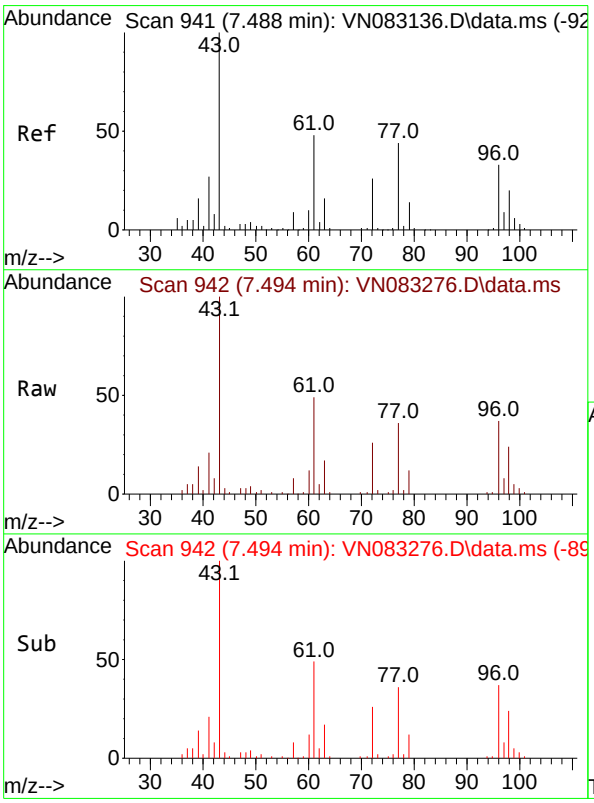
Ion	Ratio	Lower	Upper
43	100		
72	25.3	18.2	27.2



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

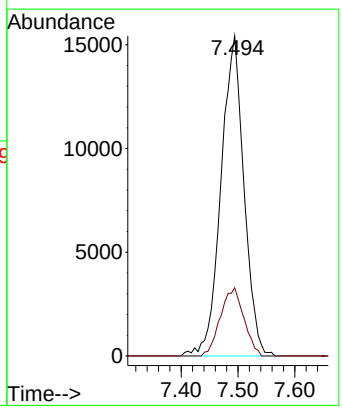
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

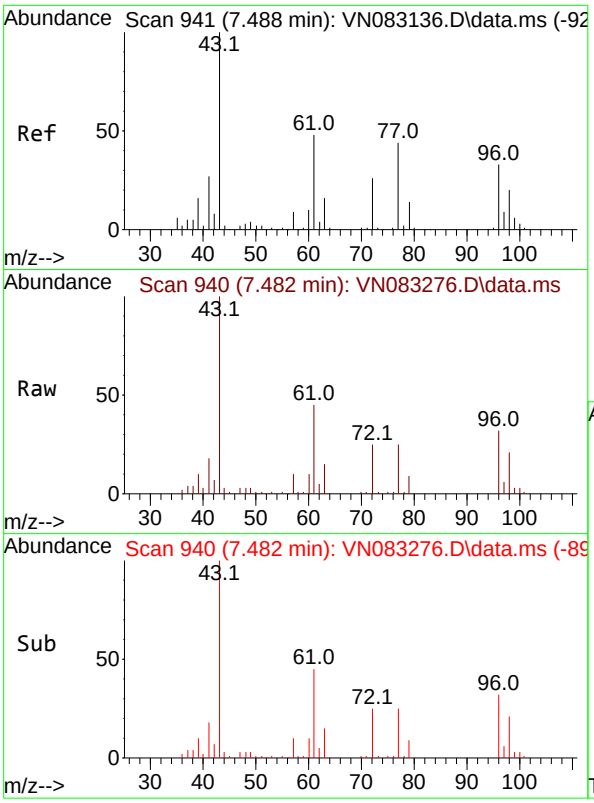


#26
2,2-Dichloropropane
Concen: 13.264 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 77 Resp: 43342

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.3	30.9

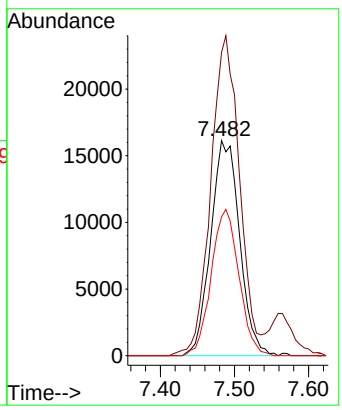




#27
cis-1,2-Dichloroethene
Concen: 19.307 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 96 Resp: 4375

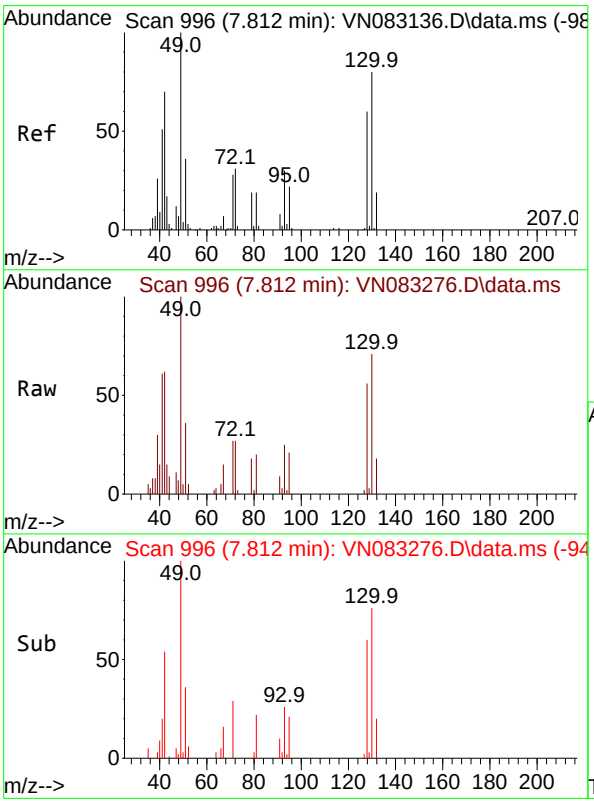
Ion	Ratio	Lower	Upper
96	100		
61	147.4	0.0	329.6
98	65.3	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

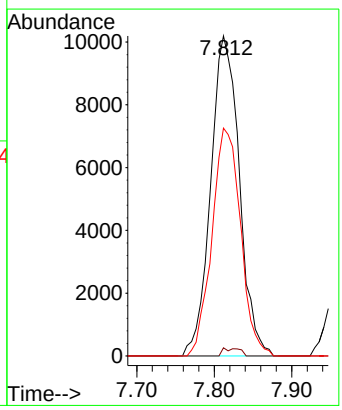
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

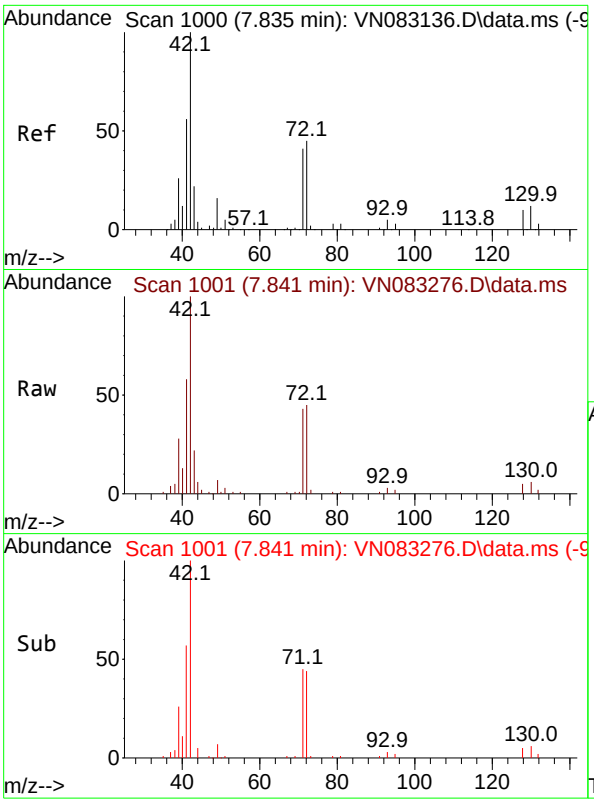


#28
Bromochloromethane
Concen: 18.193 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 49 Resp: 26160

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.8
130	71.2	50.5	75.7

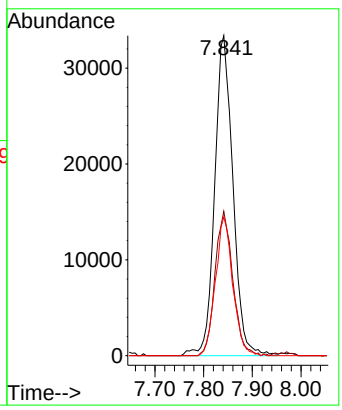




#29
Tetrahydrofuran
Concen: 96.167 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 42 Resp: 8715

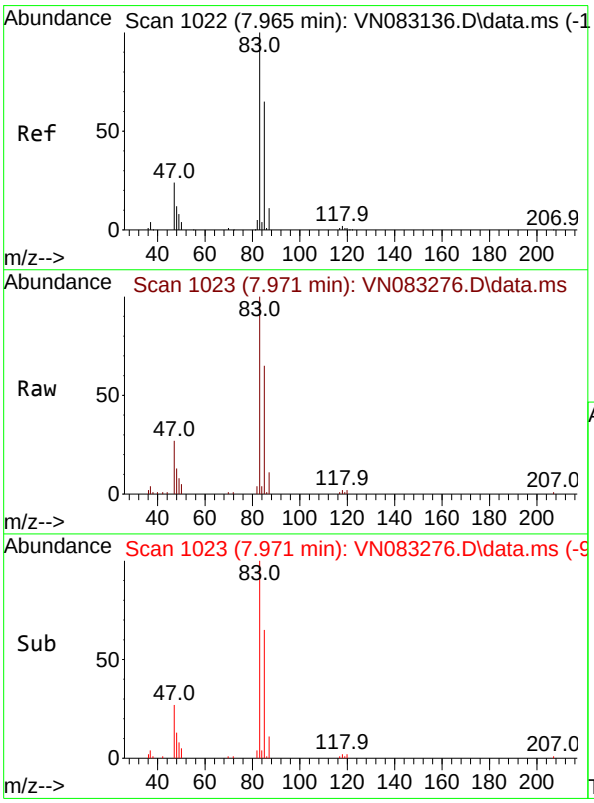
Ion	Ratio	Lower	Upper
42	100		
72	44.0	30.0	45.0
71	41.3	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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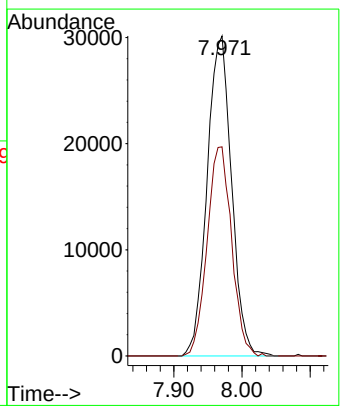
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

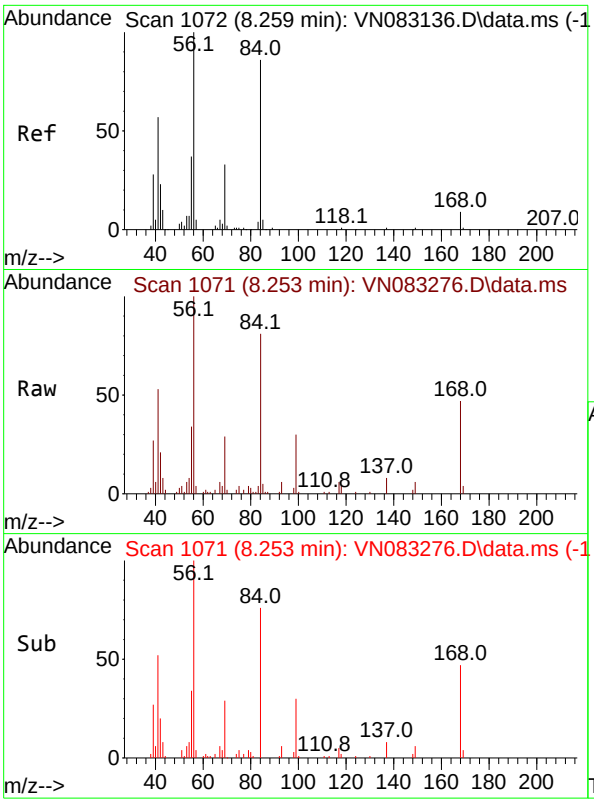


#30
Chloroform
Concen: 20.556 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 83 Resp: 75140

Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.9	76.3

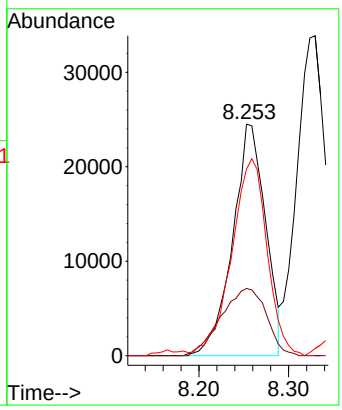




#31
Cyclohexane
Concen: 18.065 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 56 Resp: 6246

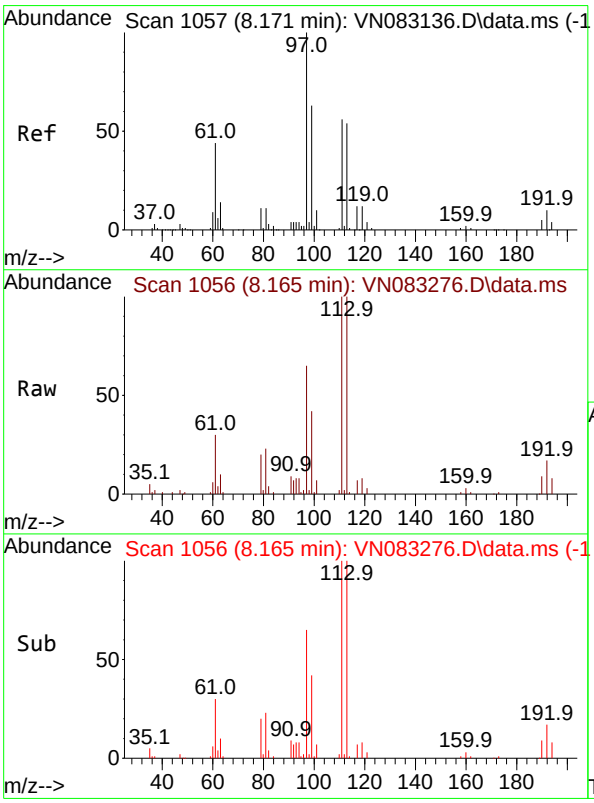
Ion	Ratio	Lower	Upper
56	100		
69	29.0	24.5	36.7
84	78.9	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations APPROVED

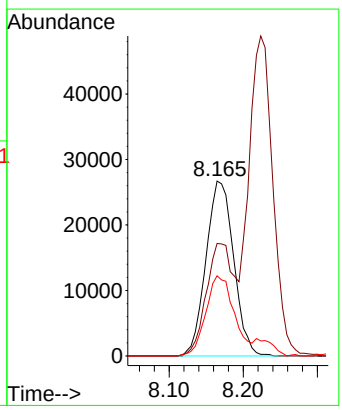
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

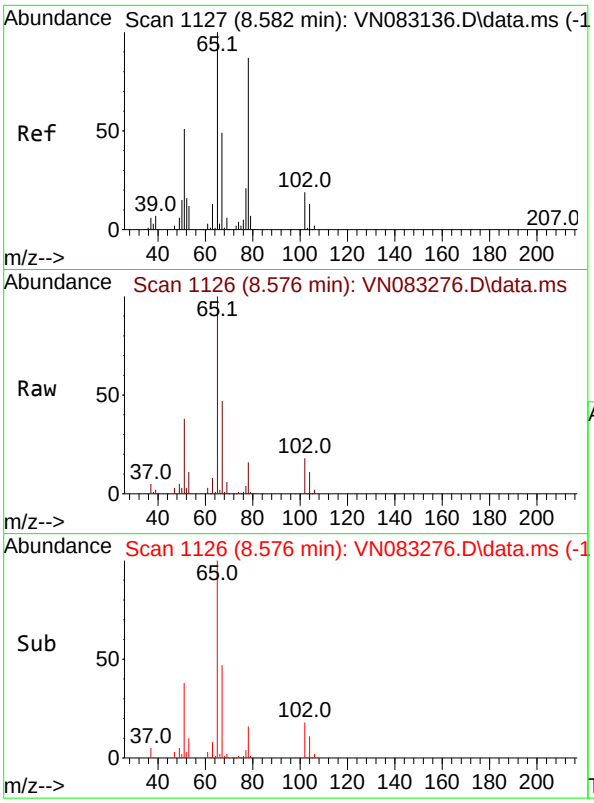


#32
1,1,1-Trichloroethane
Concen: 20.022 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 97 Resp: 69276

Ion	Ratio	Lower	Upper
97	100		
99	66.2	52.0	78.0
61	47.1	42.1	63.1

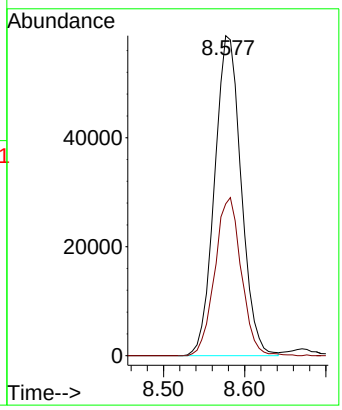




#33
1,2-Dichloroethane-d4
Concen: 57.246 ug/l
RT: 8.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 65 Resp: 13357

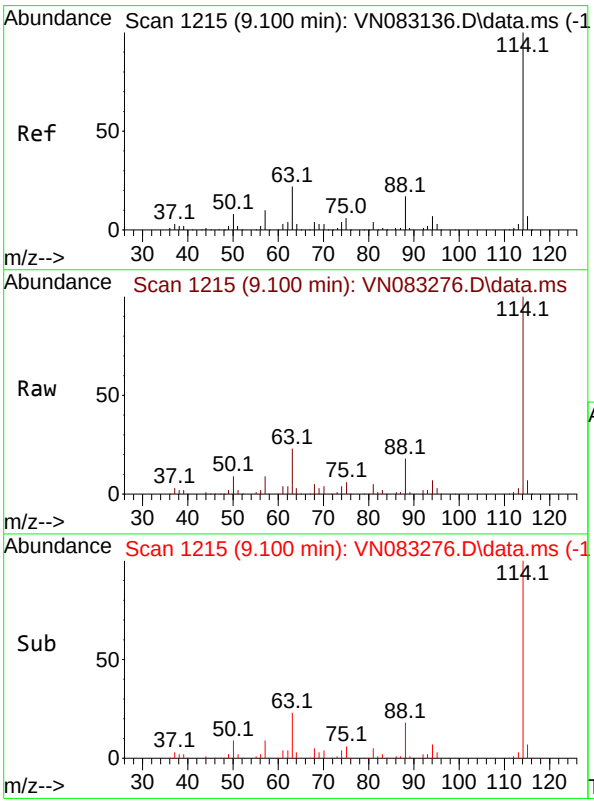
Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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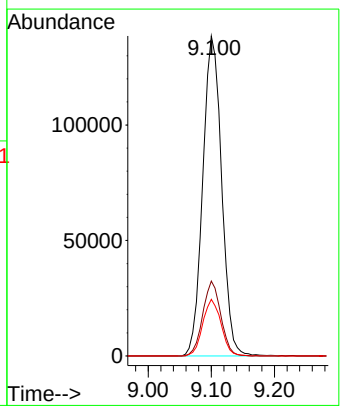
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

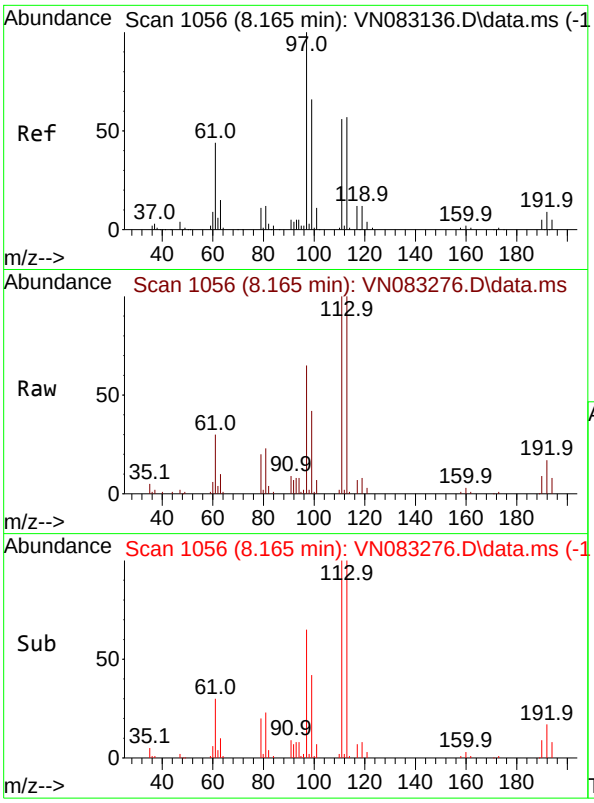


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:114 Resp: 287598

Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	44.6
88	17.7	0.0	31.4

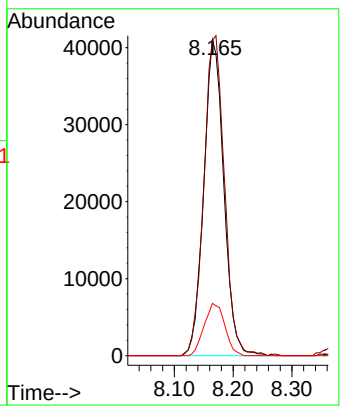




#35
Dibromofluoromethane
Concen: 54.105 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:113 Resp: 9712

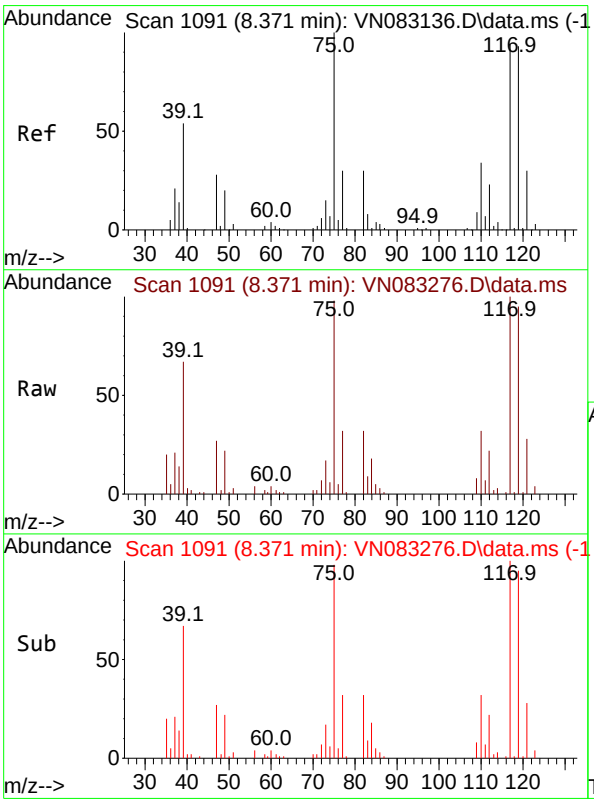
Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	17.1	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

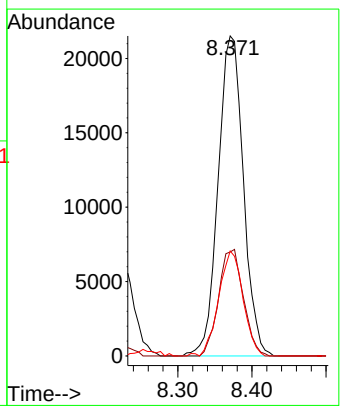
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

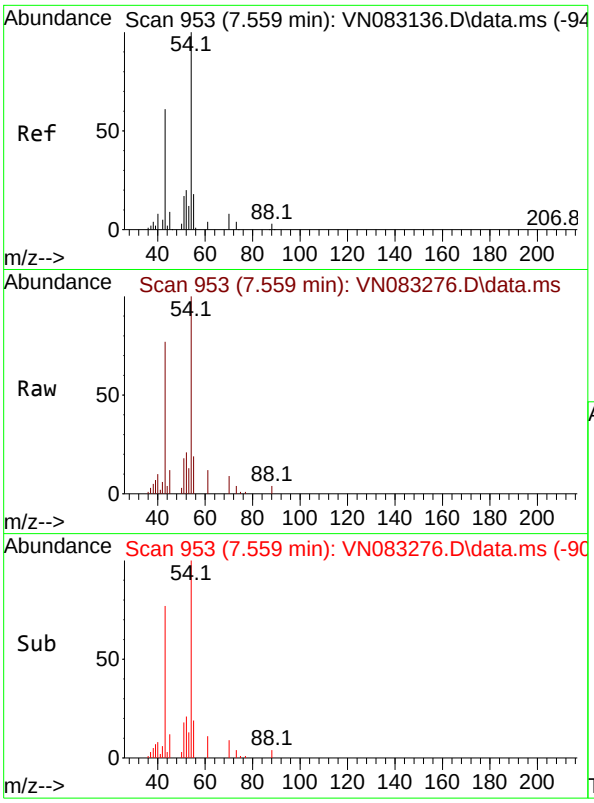


#36
1,1-Dichloropropene
Concen: 18.756 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 75 Resp: 50932

Ion	Ratio	Lower	Upper
75	100		
110	32.7	16.3	48.9
77	31.6	24.6	37.0





#37
Ethyl Acetate
Concen: 17.551 ug/l
RT: 7.559 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

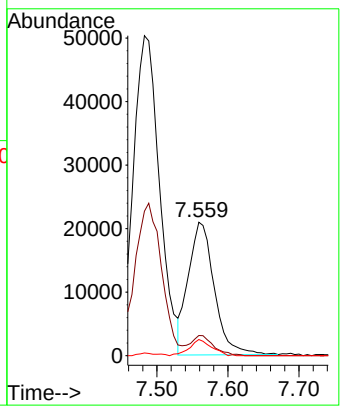
Tgt Ion: 43 Resp: 5336

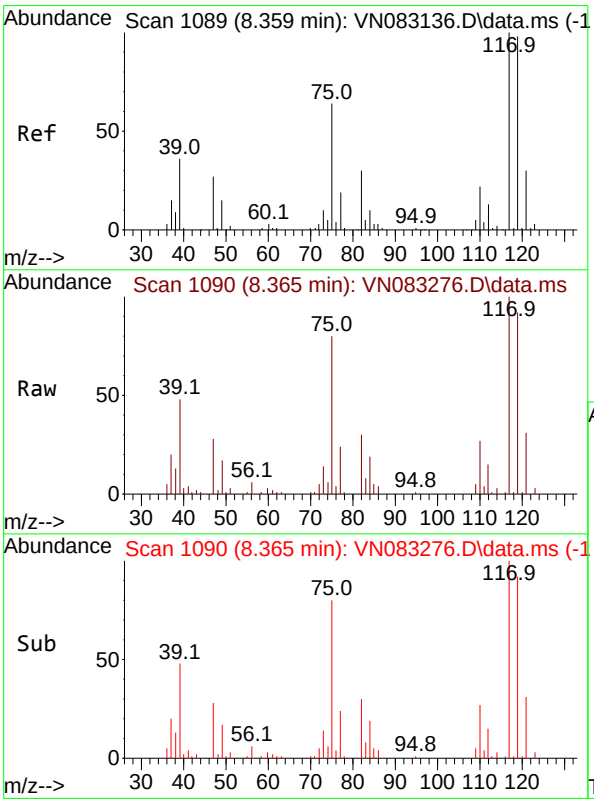
Ion	Ratio	Lower	Upper
43	100		
61	13.7	9.3	13.9
70	10.3	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

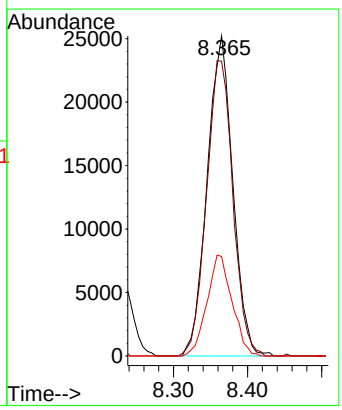


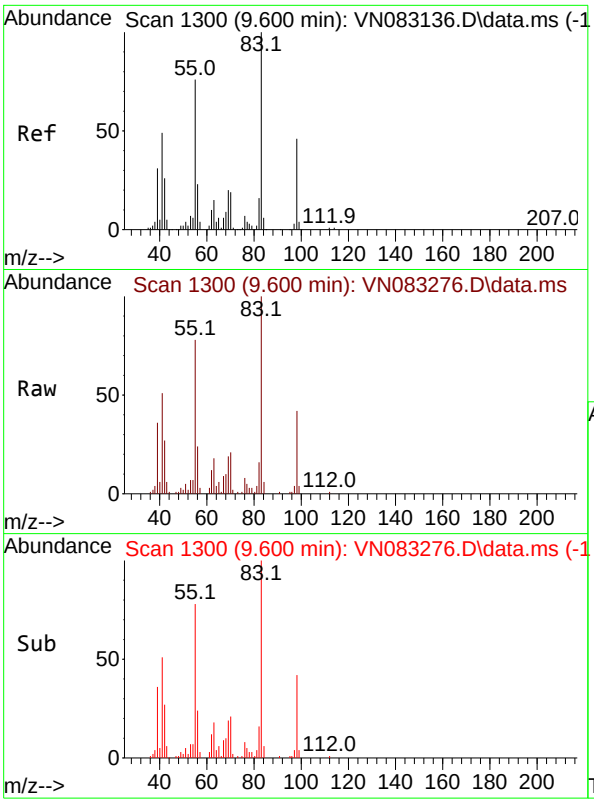


#38
Carbon Tetrachloride
Concen: 19.799 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:117 Resp: 60557

Ion	Ratio	Lower	Upper
117	100		
119	92.1	74.9	112.3
121	31.1	24.3	36.5

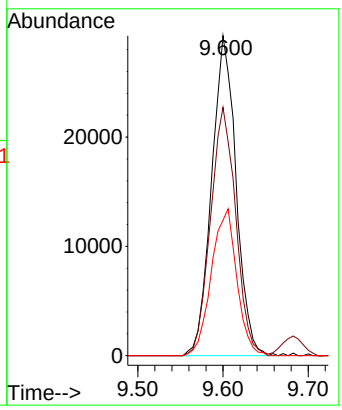




#39
Methylcyclohexane
Concen: 17.483 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 83 Resp: 5831

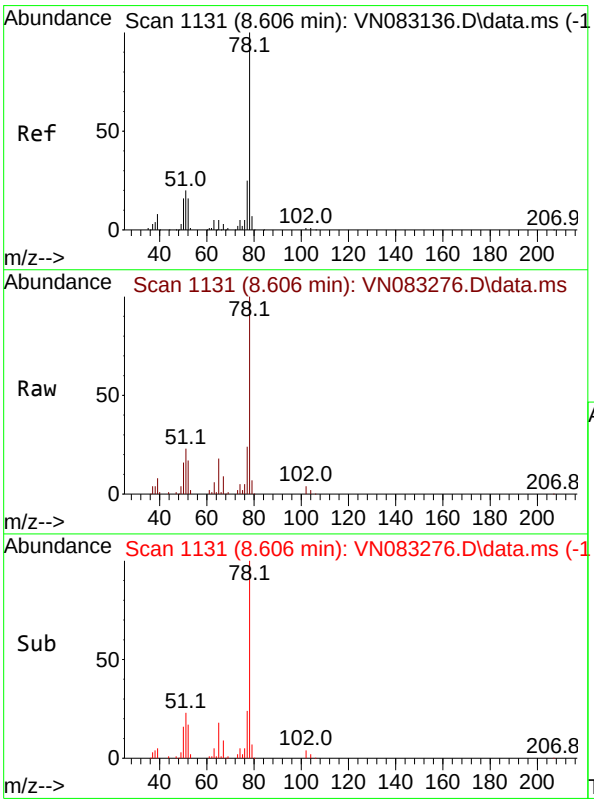
Ion	Ratio	Lower	Upper
83	100		
55	77.6	66.4	99.6
98	42.3	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

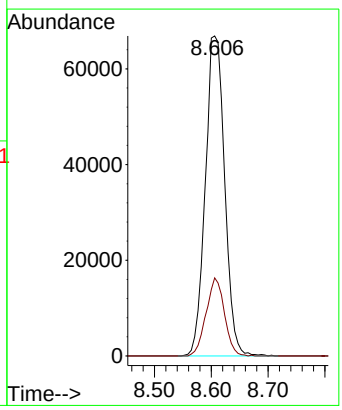
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

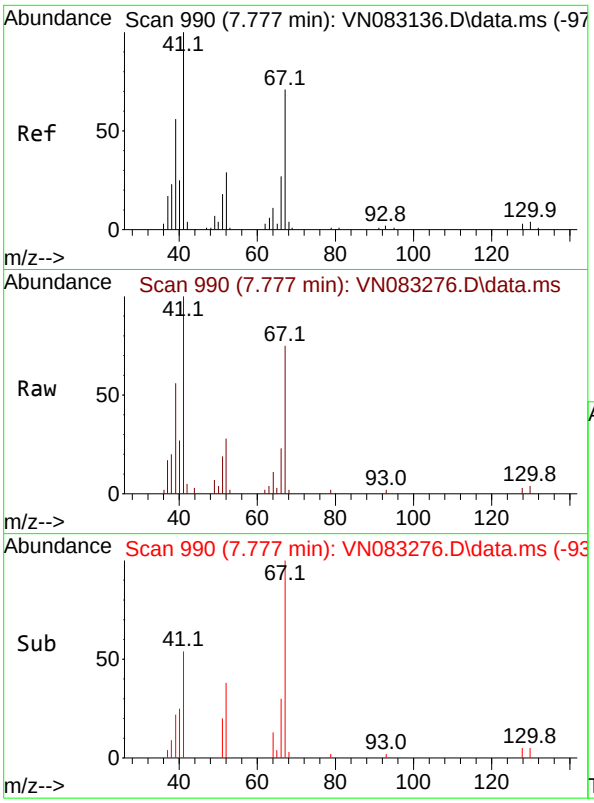


#40
Benzene
Concen: 19.557 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 78 Resp: 158212

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.4

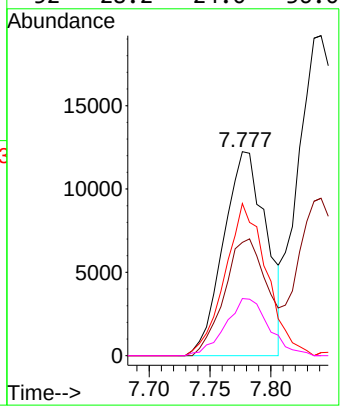




#41
Methacrylonitrile
Concen: 17.425 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 41 Resp: 3012

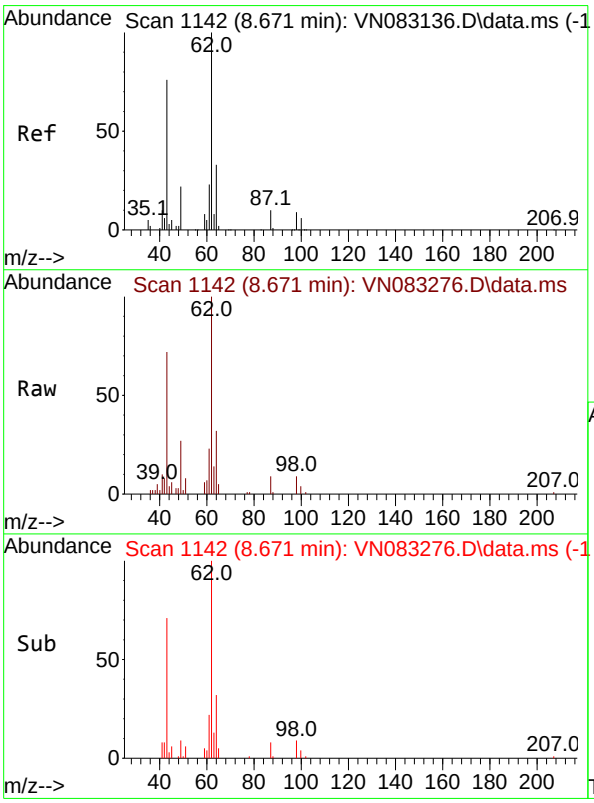
Ion	Ratio	Lower	Upper
41	100		
39	56.7	45.5	68.3
67	72.3	50.5	75.7
52	28.2	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

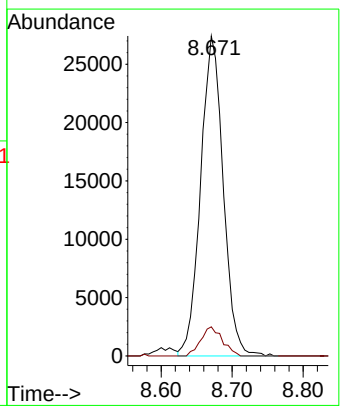
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

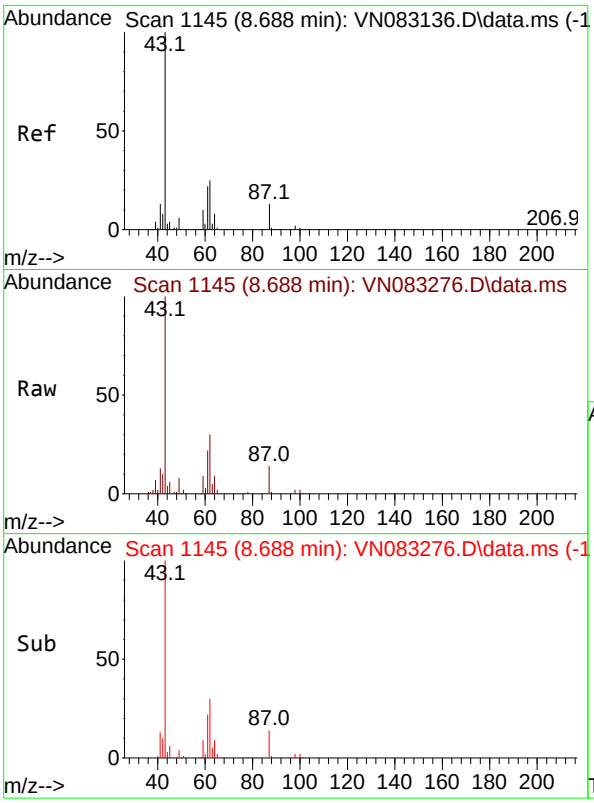


#42
1,2-Dichloroethane
Concen: 20.607 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 62 Resp: 60727

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	15.8





#43
Isopropyl Acetate
Concen: 18.450 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

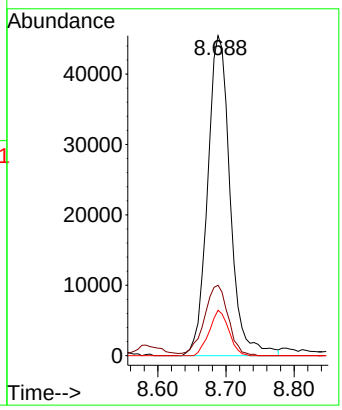
Tgt Ion: 43 Resp: 10478

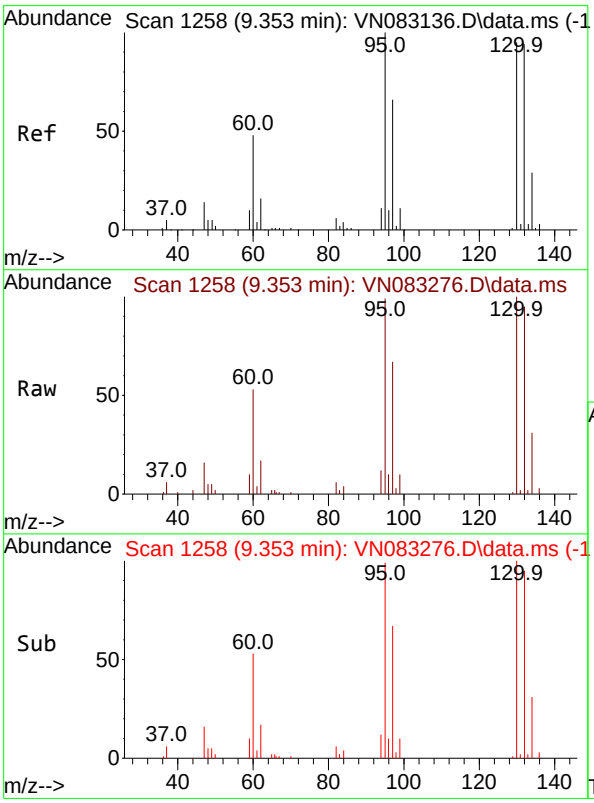
Ion	Ratio	Lower	Upper
43	100		
61	23.4	17.8	26.6
87	12.2	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

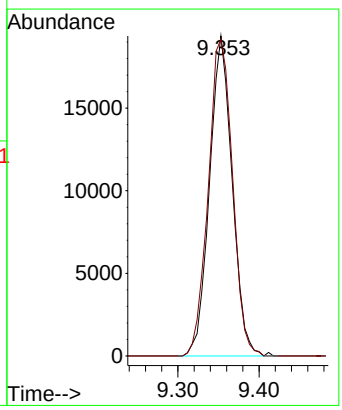


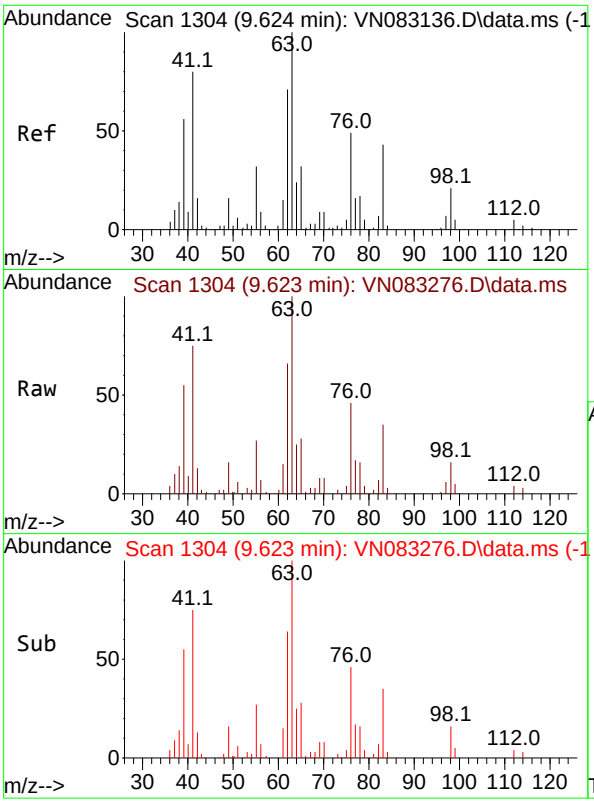


#44
Trichloroethene
Concen: 19.495 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:130 Resp: 37538

Ion	Ratio	Lower	Upper
130	100		
95	99.0	0.0	197.8

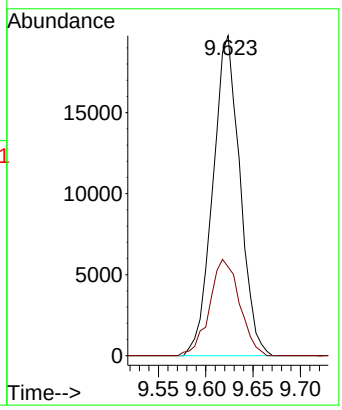




#45
1,2-Dichloropropane
Concen: 20.464 ug/l
RT: 9.623 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 63 Resp: 3929

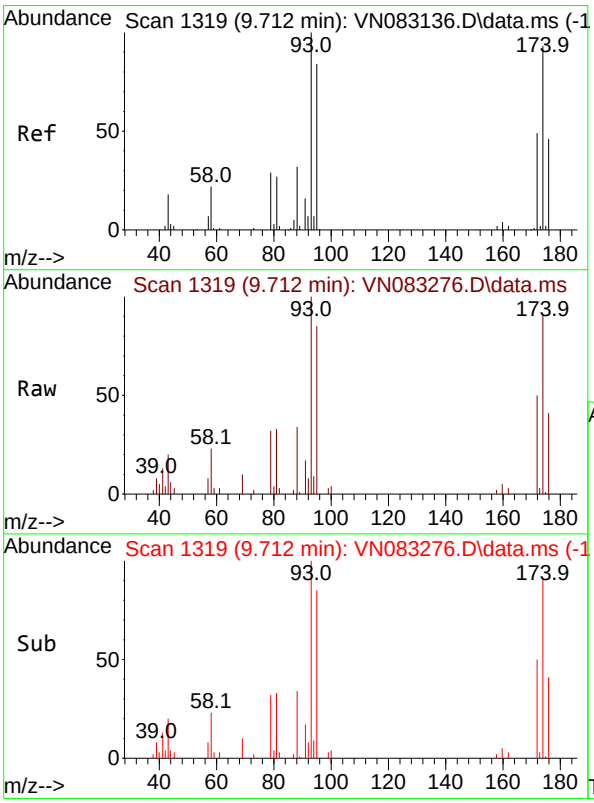
Ion	Ratio	Lower	Upper
63	100		
65	27.8	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations APPROVED

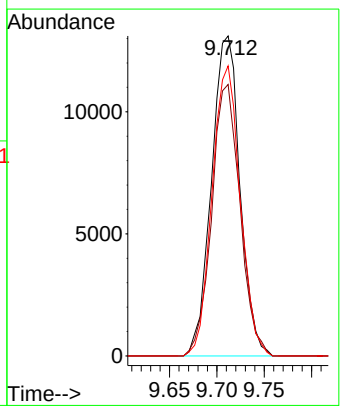
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

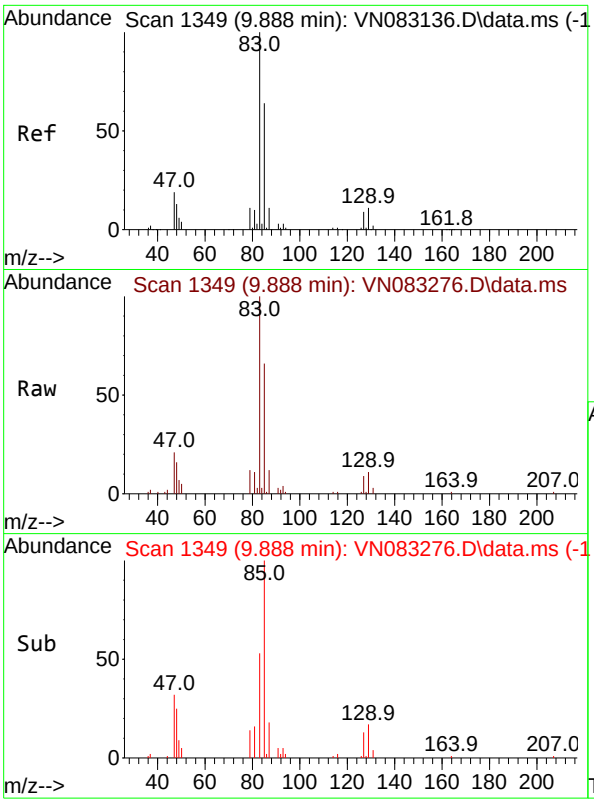


#46
Dibromomethane
Concen: 19.955 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 93 Resp: 27427

Ion	Ratio	Lower	Upper
93	100		
95	84.3	65.8	98.6
174	89.6	71.7	107.5

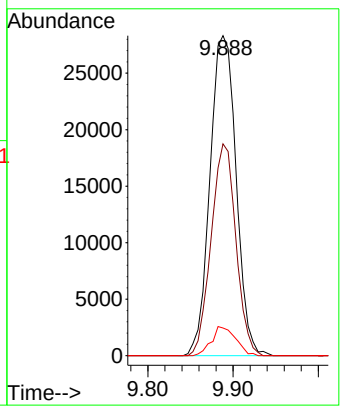




#47
Bromodichloromethane
Concen: 19.566 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 83 Resp: 6038

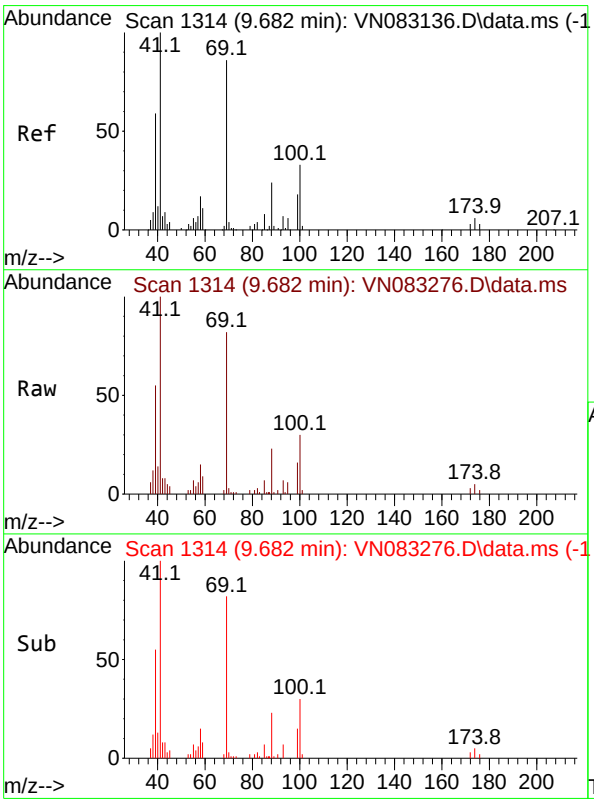
Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.1	76.7
127	8.7	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations APPROVED

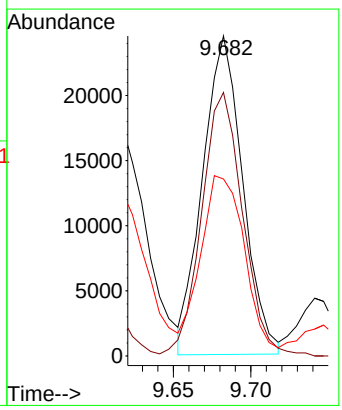
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

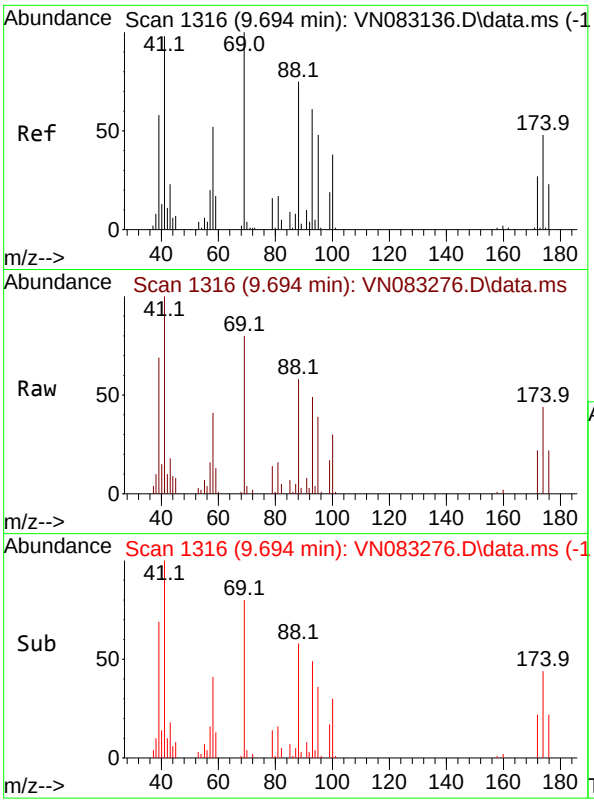


#48
Methyl methacrylate
Concen: 17.478 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 41 Resp: 43935

Ion	Ratio	Lower	Upper
41	100		
69	85.0	56.3	84.5#
39	62.6	50.3	75.5





#49
1,4-Dioxane
Concen: 369.020 ug/l
RT: 9.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

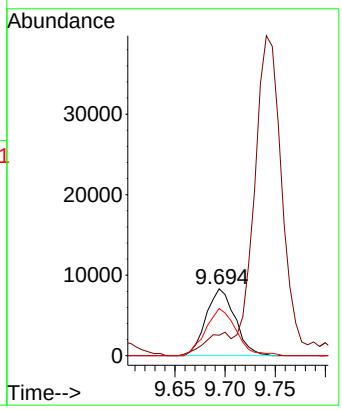
Tgt Ion: 88 Resp: 1673

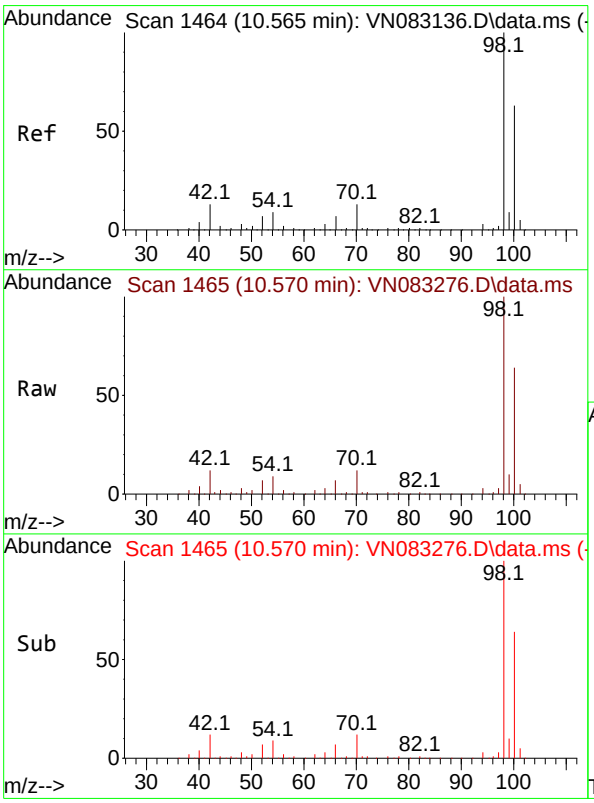
Ion	Ratio	Lower	Upper
88	100		
43	31.4	27.8	41.8
58	74.0	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

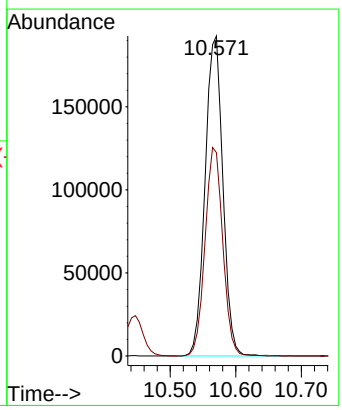


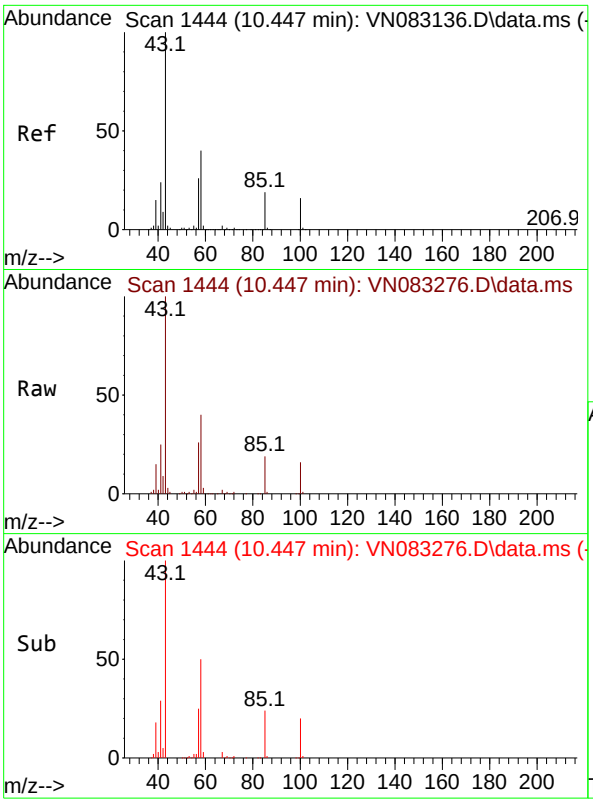


#50
Toluene-d8
Concen: 54.187 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 98 Resp: 362852

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.5	77.3

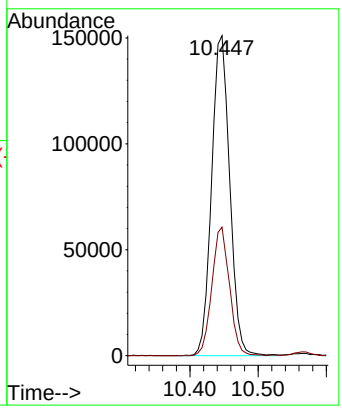




#51
4-Methyl-2-Pentanone
Concen: 97.180 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 43 Resp: 27941

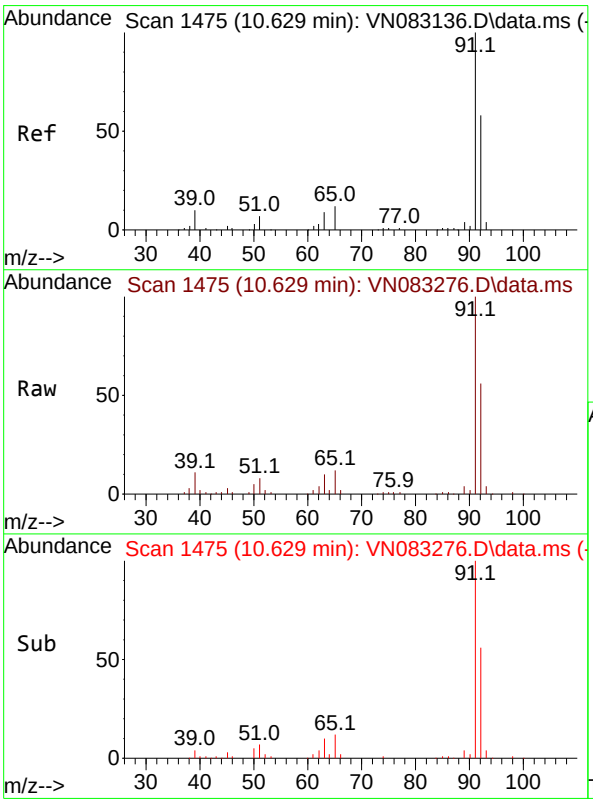
Ion	Ratio	Lower	Upper
43	100		
58	39.0	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations APPROVED

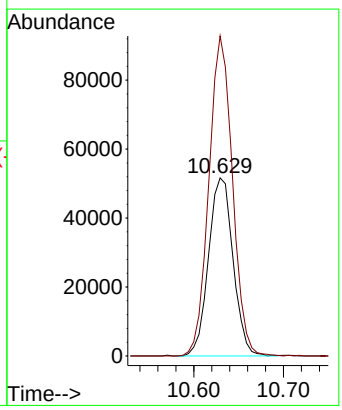
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

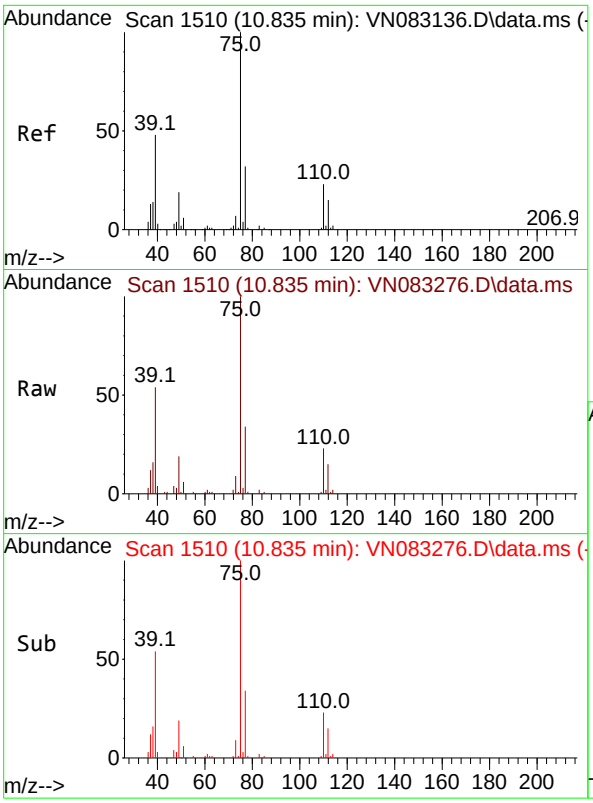


#52
Toluene
Concen: 19.209 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 92 Resp: 98181

Ion	Ratio	Lower	Upper
92	100		
91	172.8	139.4	209.0





#53
t-1,3-Dichloropropene
Concen: 18.044 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

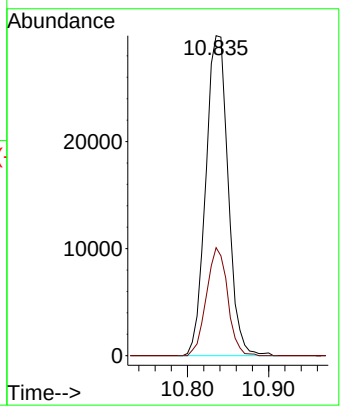
Tgt Ion: 75 Resp: 5720

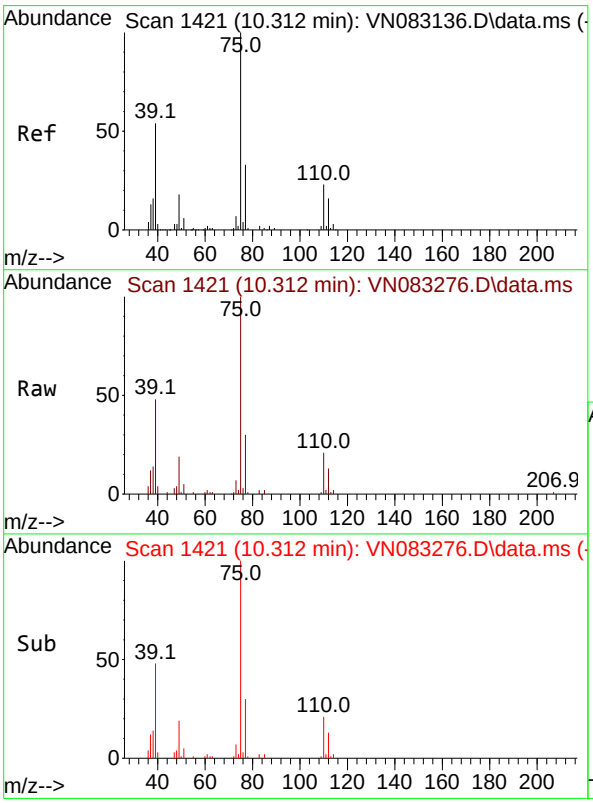
Ion	Ratio	Lower	Upper
75	100		
77	33.8	25.7	38.5

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

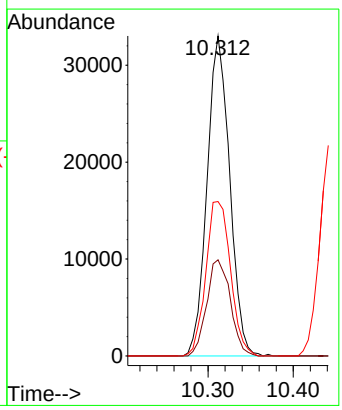


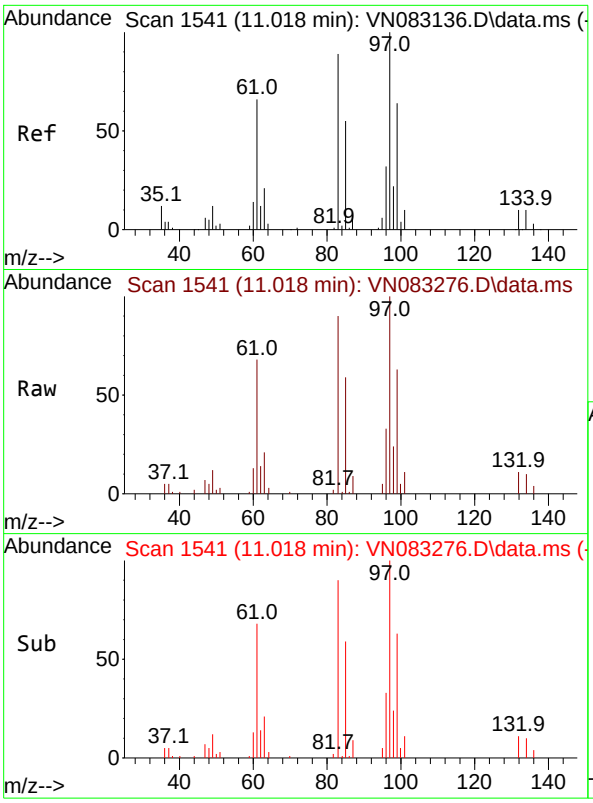


#54
cis-1,3-Dichloropropene
Concen: 18.063 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 75 Resp: 60905

Ion	Ratio	Lower	Upper
75	100		
77	30.1	24.3	36.5
39	48.2	50.5	75.7#

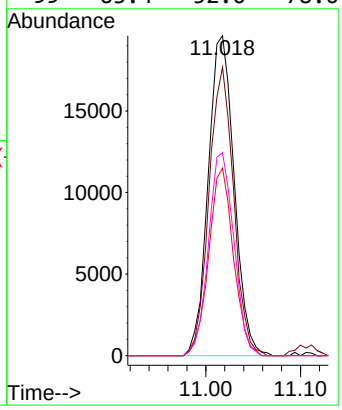




#55
1,1,2-Trichloroethane
Concen: 20.455 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 97 Resp: 3746

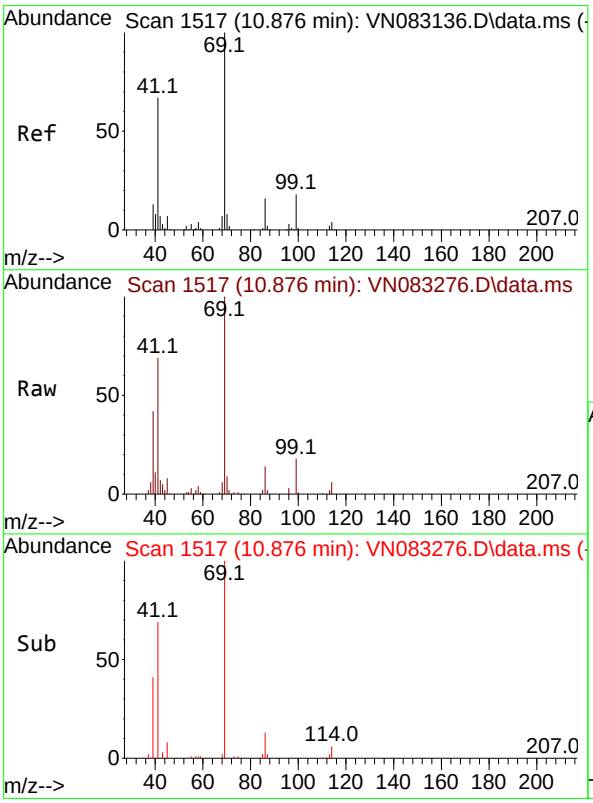
Ion	Ratio	Lower	Upper
97	100		
83	90.2	71.4	107.0
85	58.6	45.8	68.6
99	63.4	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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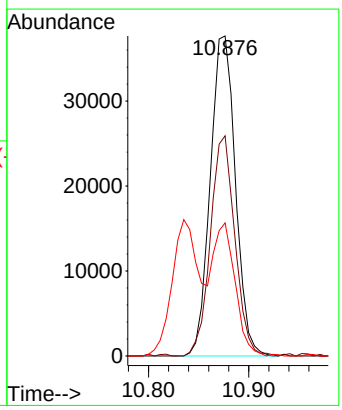
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

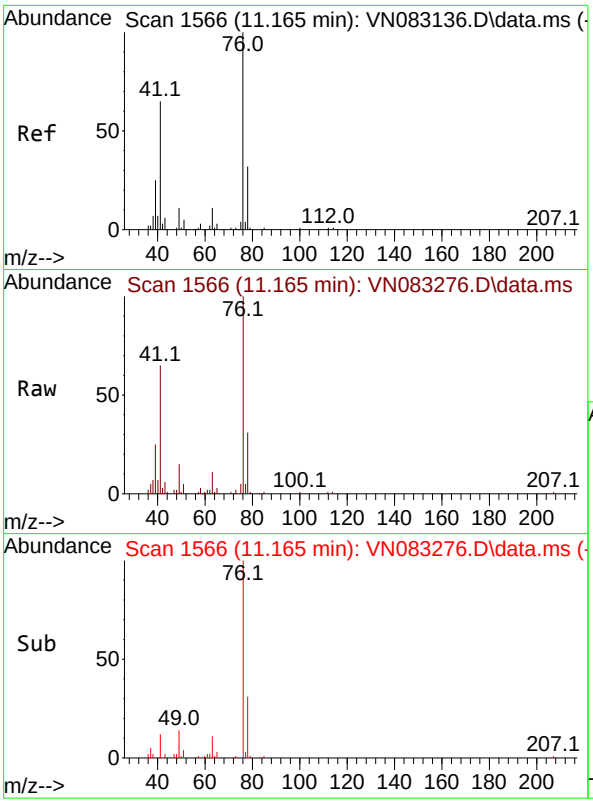


#56
Ethyl methacrylate
Concen: 19.007 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 69 Resp: 65633

Ion	Ratio	Lower	Upper
69	100		
41	67.1	63.4	95.2
39	36.2	37.4	56.0#

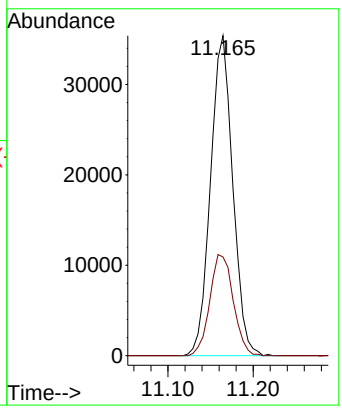




#57
1,3-Dichloropropane
Concen: 19.687 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 76 Resp: 6427

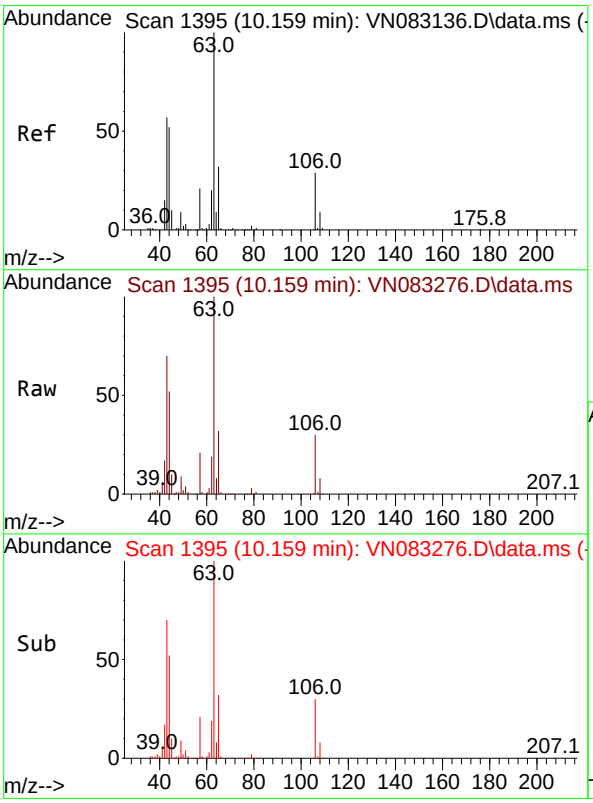
Ion	Ratio	Lower	Upper
76	100		
78	33.3	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

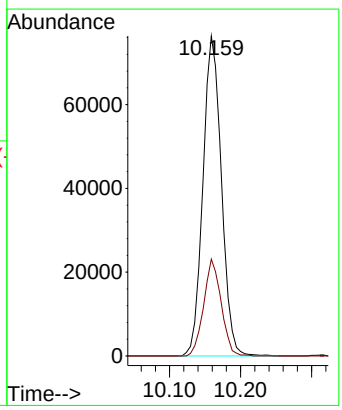
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

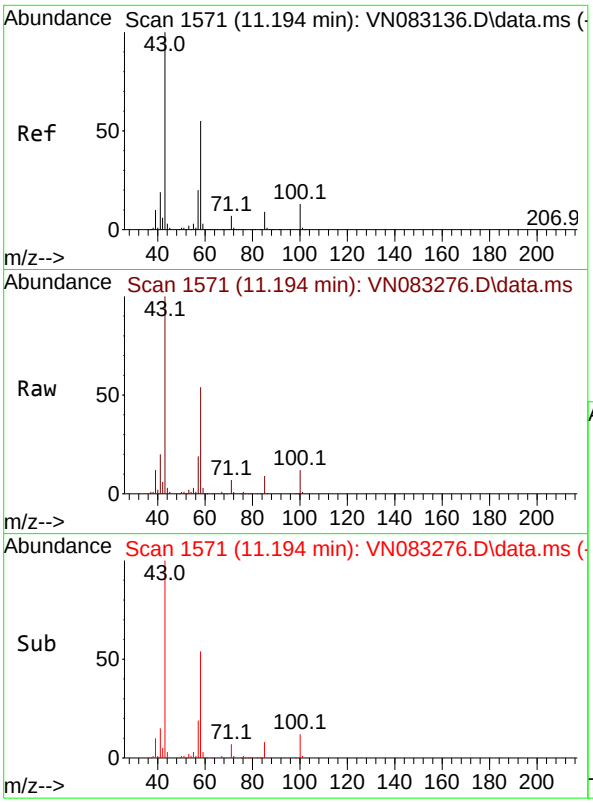


#58
2-Chloroethyl Vinyl ether
Concen: 94.650 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 63 Resp: 138157

Ion	Ratio	Lower	Upper
63	100		
106	28.6	21.4	32.0





#59
2-Hexanone
Concen: 93.423 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

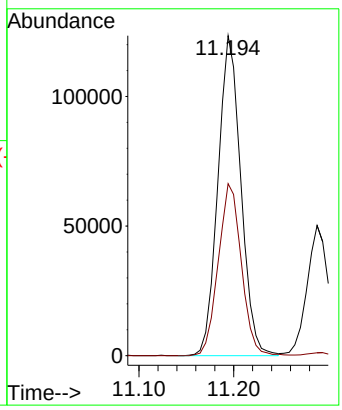
Tgt Ion: 43 Resp: 20780

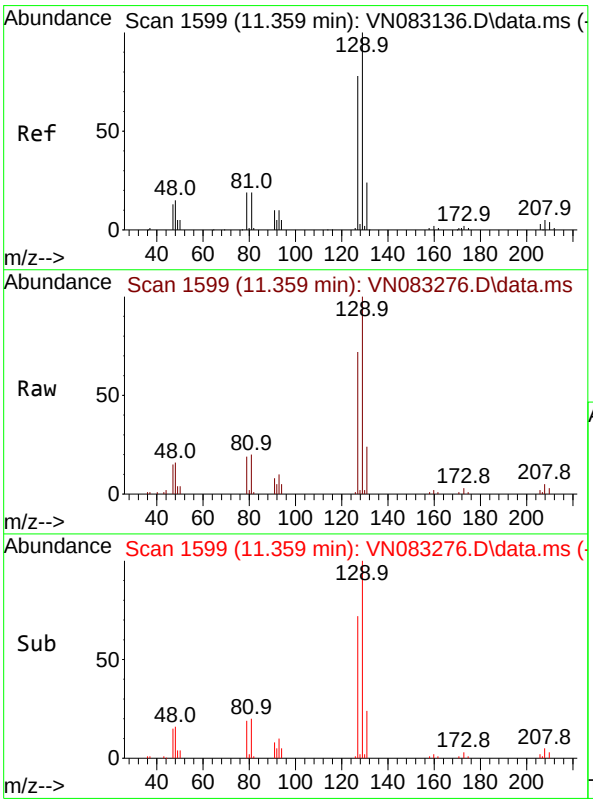
Ion	Ratio	Lower	Upper
43	100		
58	54.1	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

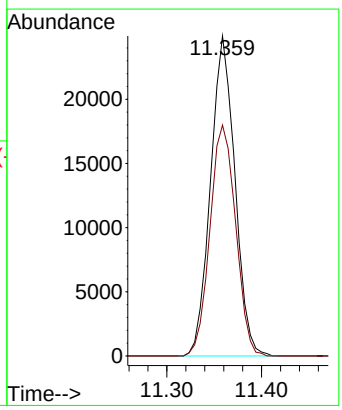


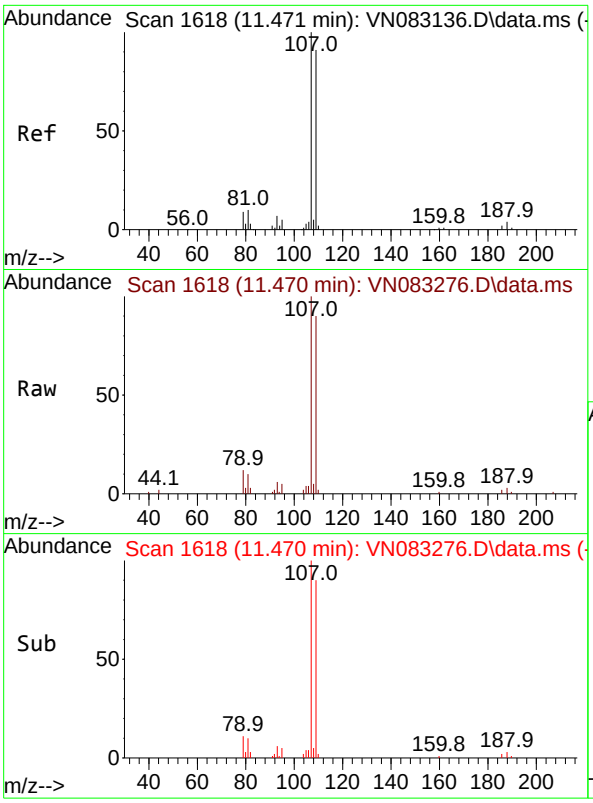


#60
Dibromochloromethane
Concen: 20.105 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:129 Resp: 44526

Ion	Ratio	Lower	Upper
129	100		
127	76.0	39.2	117.6





#61
1,2-Dibromoethane
Concen: 19.699 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

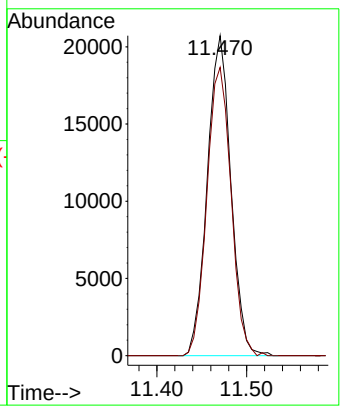
Tgt Ion:107 Resp: 3790

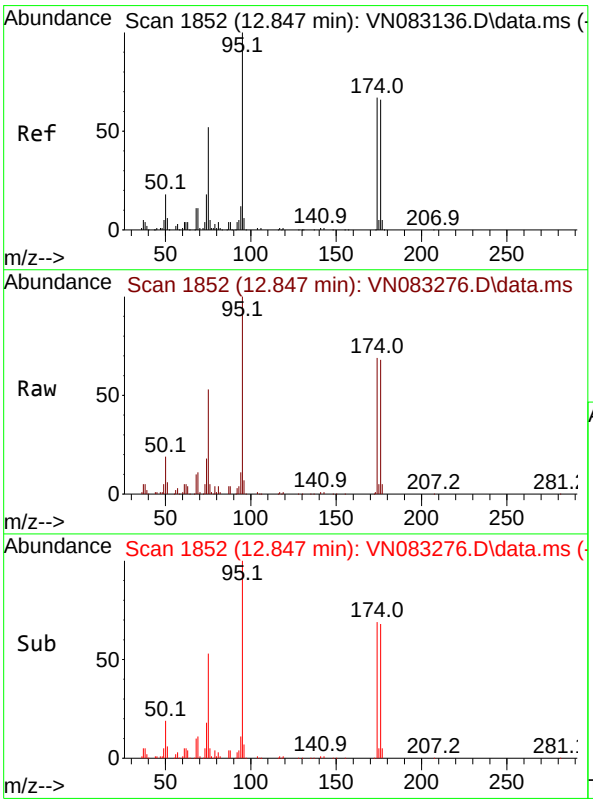
Ion	Ratio	Lower	Upper
107	100		
109	92.0	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

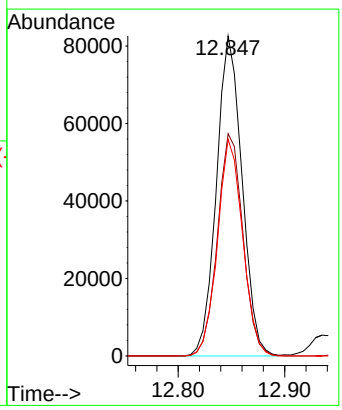


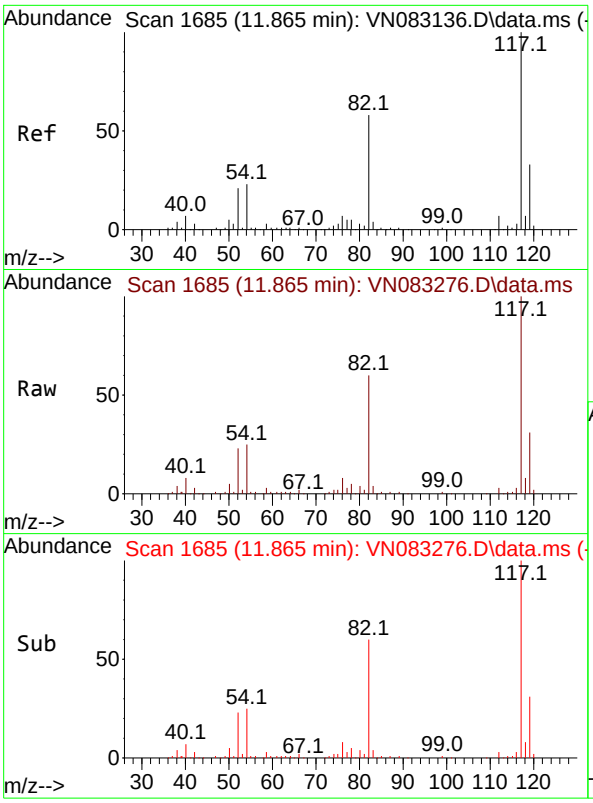


#62
4-Bromofluorobenzene
Concen: 52.660 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 95 Resp: 137472

Ion	Ratio	Lower	Upper
95	100		
174	69.2	0.0	159.2
176	66.7	0.0	147.6

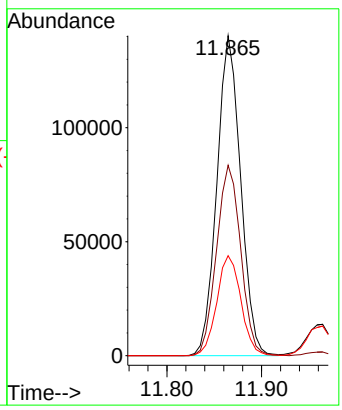




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:117 Resp: 24493

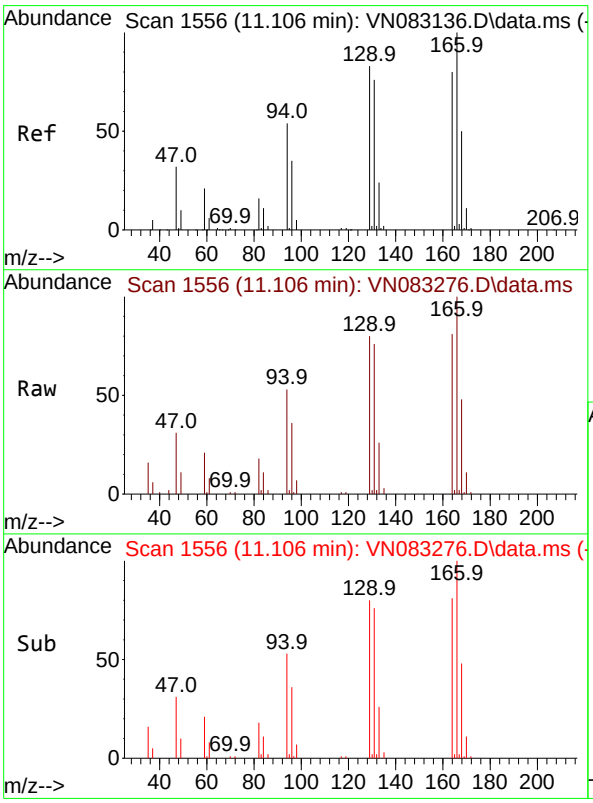
Ion	Ratio	Lower	Upper
117	100		
82	59.5	47.5	71.3
119	31.3	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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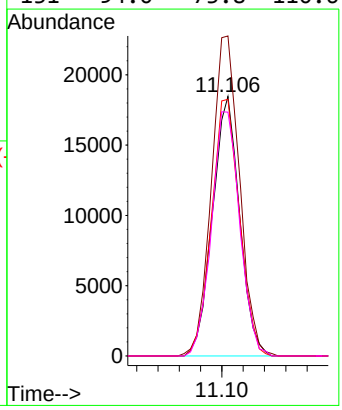
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

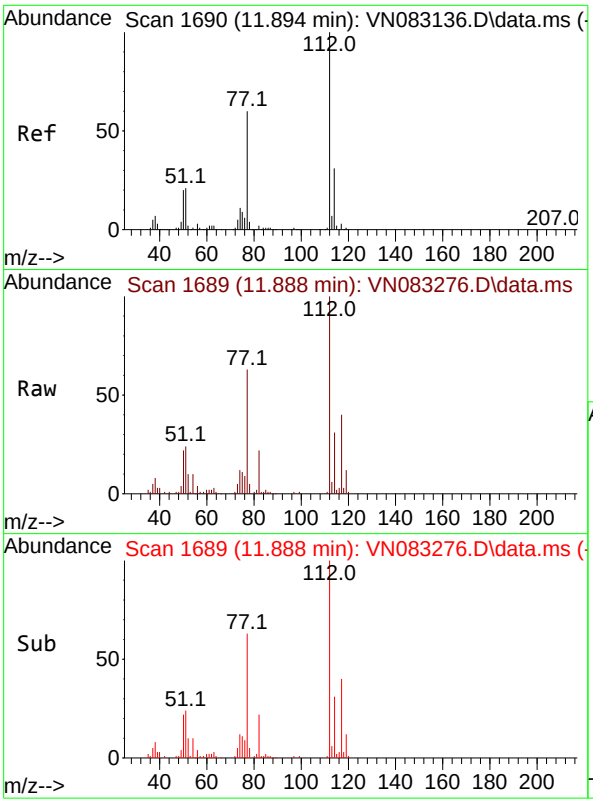


#64
Tetrachloroethene
Concen: 20.073 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:164 Resp: 32561

Ion	Ratio	Lower	Upper
164	100		
166	123.3	101.4	152.0
129	98.9	75.7	113.5
131	94.0	73.8	110.6

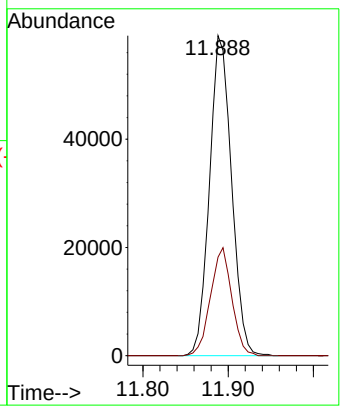




#65
Chlorobenzene
Concen: 19.611 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:112 Resp: 10614

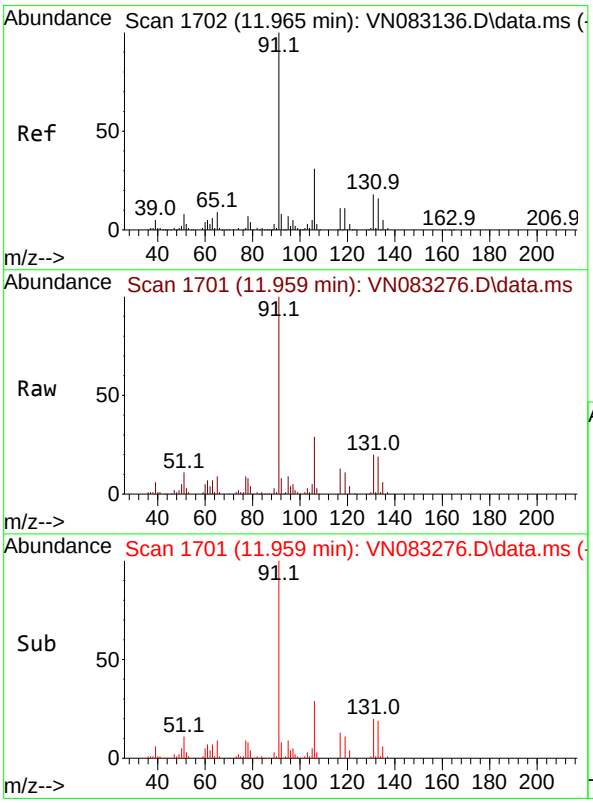
Ion	Ratio	Lower	Upper
112	100		
114	30.8	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

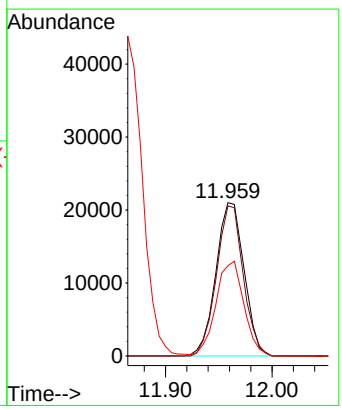
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

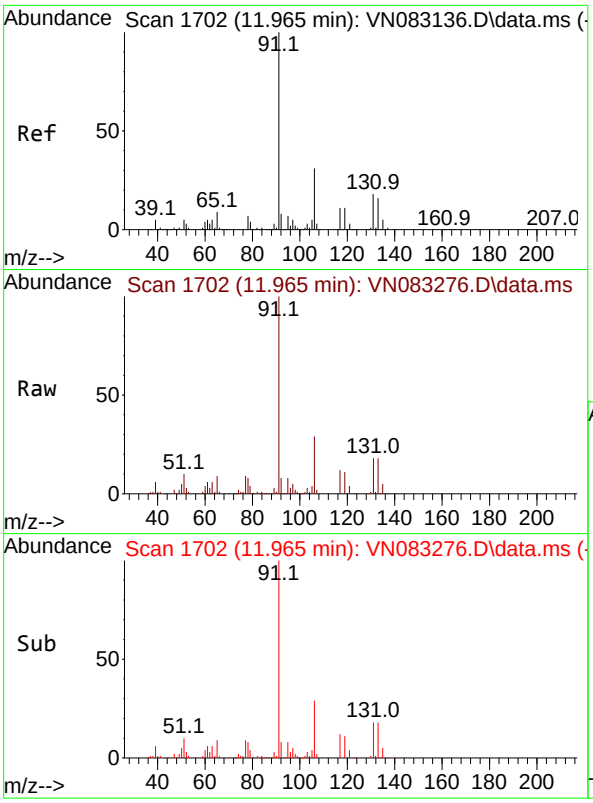


#66
1,1,1,2-Tetrachloroethane
Concen: 20.183 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:131 Resp: 38528

Ion	Ratio	Lower	Upper
131	100		
133	93.4	47.3	142.0
119	61.4	32.5	97.4





#67
Ethyl Benzene
Concen: 19.563 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

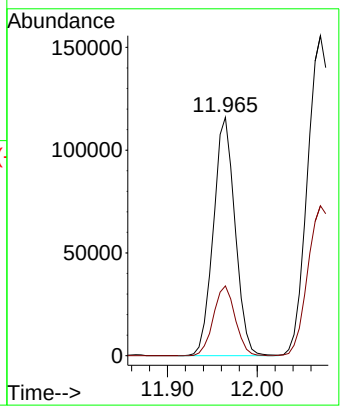
Tgt Ion: 91 Resp: 19425

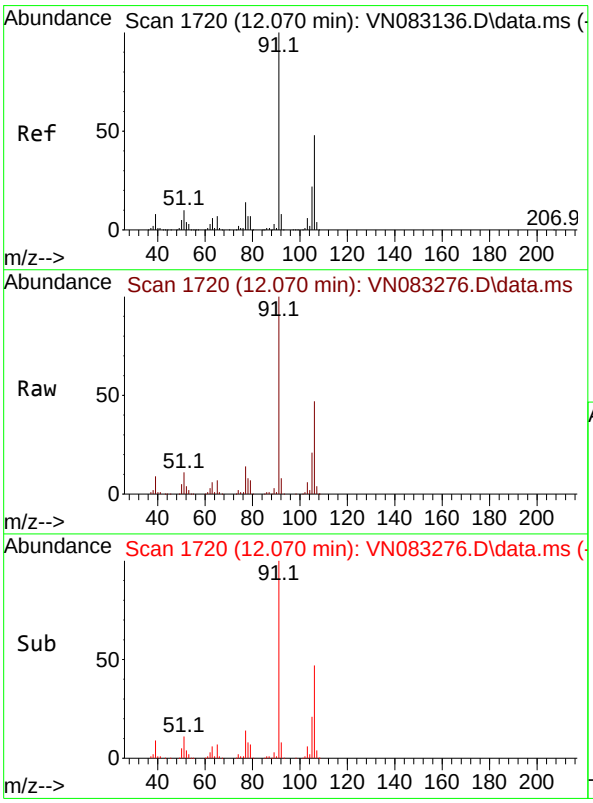
Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

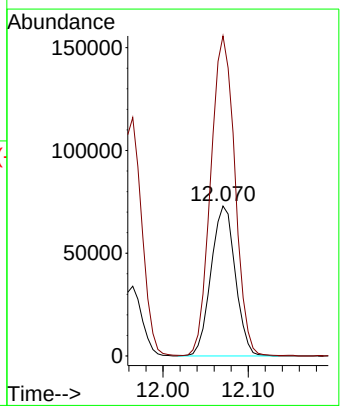


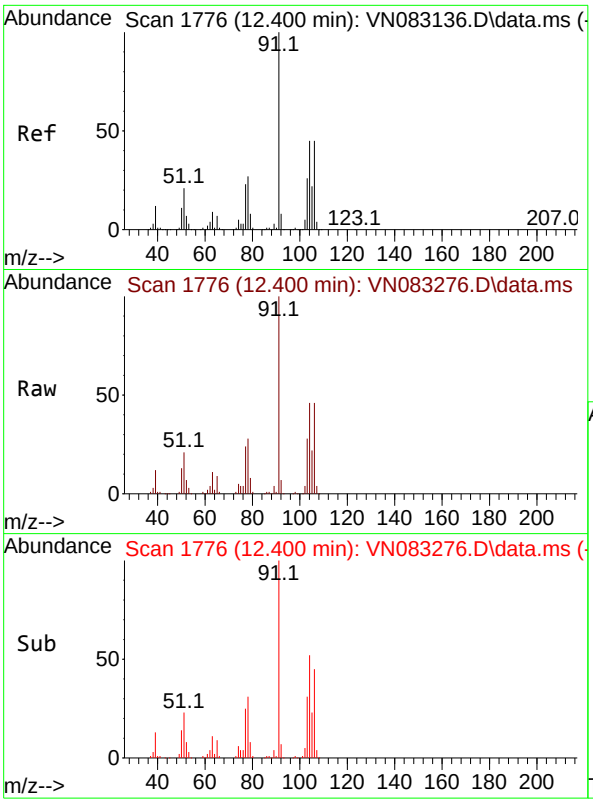


#68
m/p-Xylenes
Concen: 38.770 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:106 Resp: 144204

Ion	Ratio	Lower	Upper
106	100		
91	212.3	166.1	249.1





#69
o-Xylene
Concen: 19.744 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

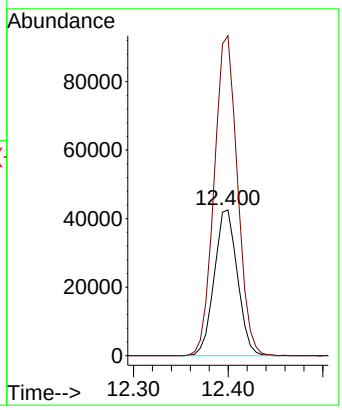
Tgt Ion:106 Resp: 7243

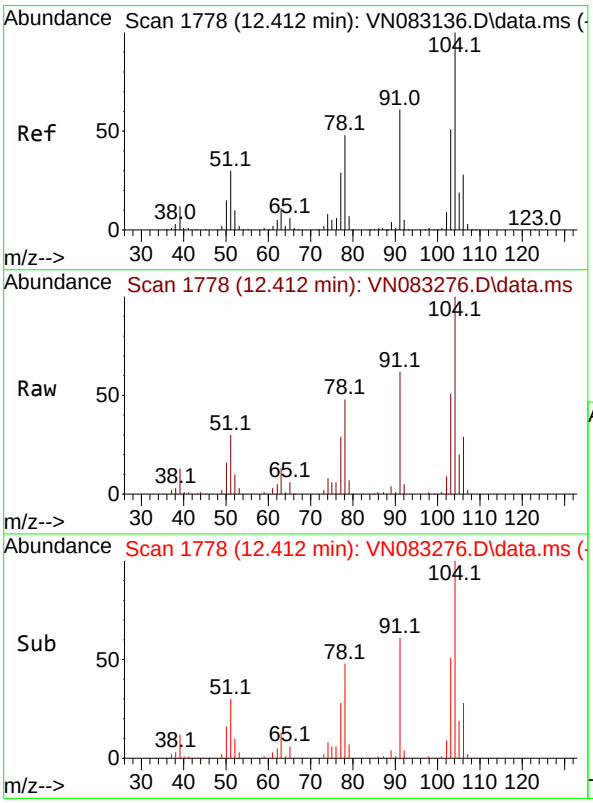
Ion	Ratio	Lower	Upper
106	100		
91	221.0	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

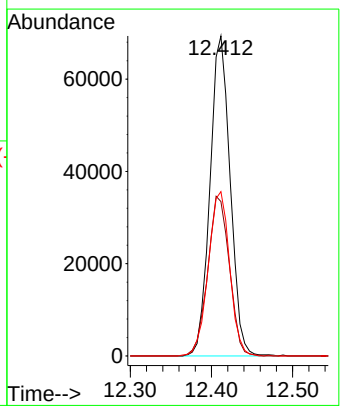


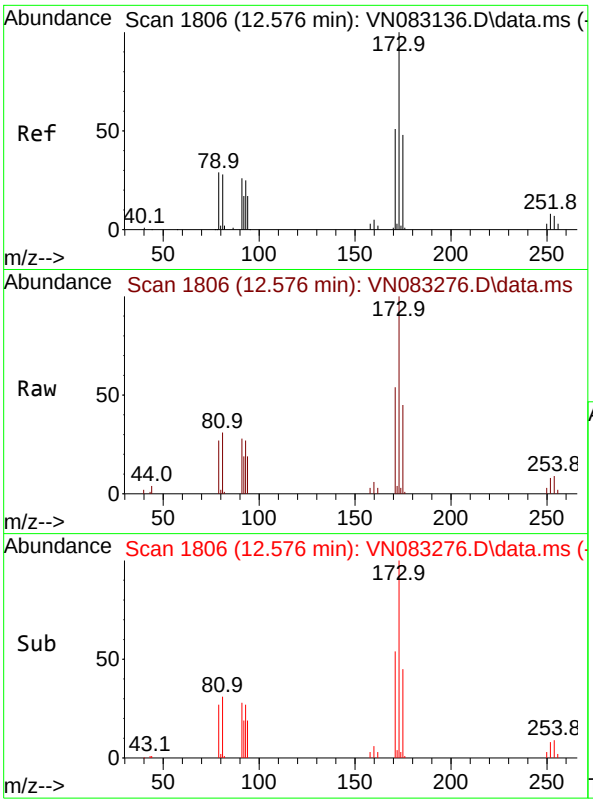


#70
Styrene
Concen: 19.470 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:104 Resp: 119958

Ion	Ratio	Lower	Upper
104	100		
78	53.7	41.6	62.4
103	54.2	44.0	66.0

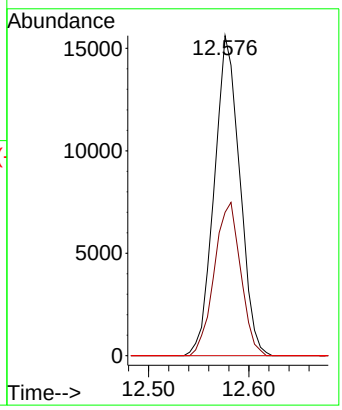




#71
Bromoform
Concen: 19.073 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:173 Resp: 2758

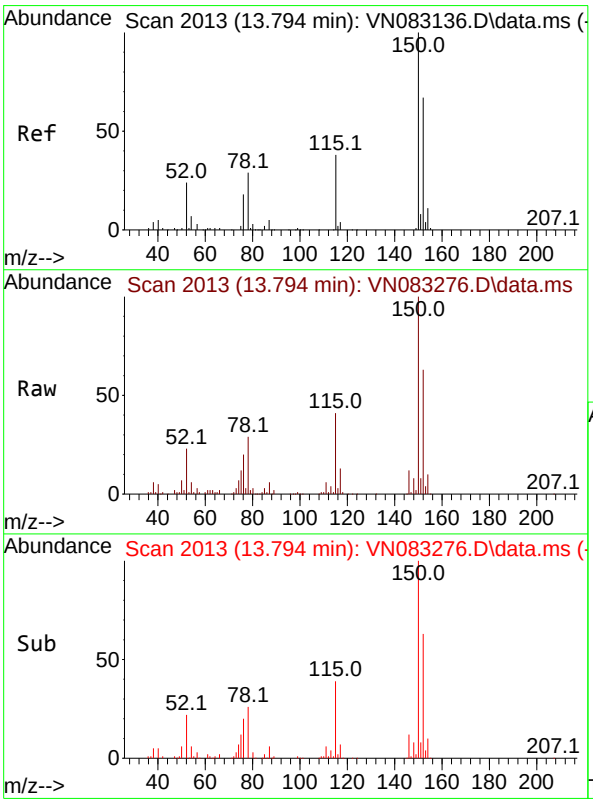
Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

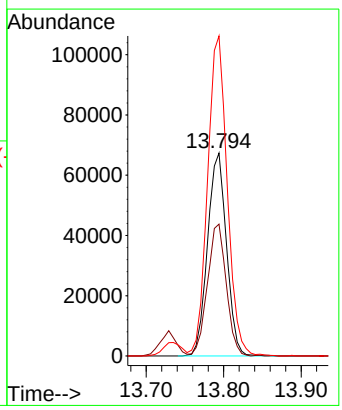
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

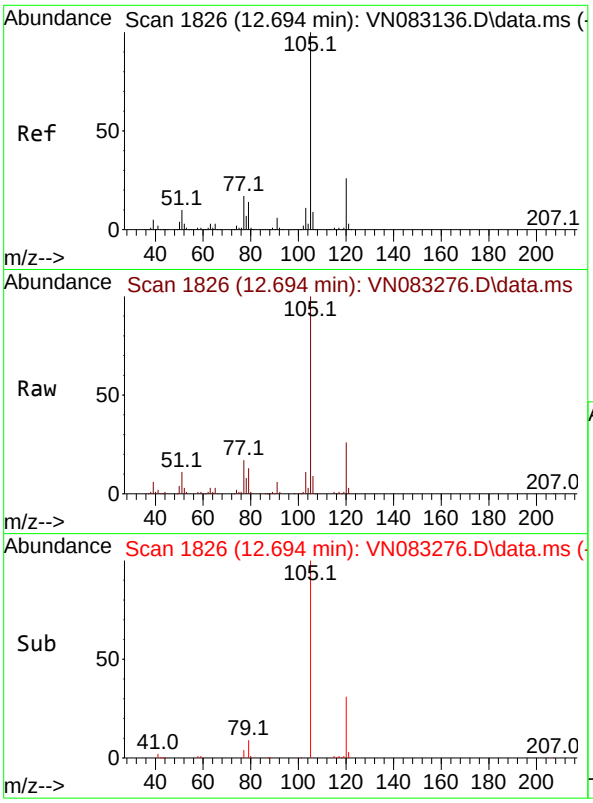


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:152 Resp: 114554

Ion	Ratio	Lower	Upper
152	100		
115	64.6	30.6	91.6
150	163.4	0.0	348.6





#73
Isopropylbenzene
Concen: 19.160 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

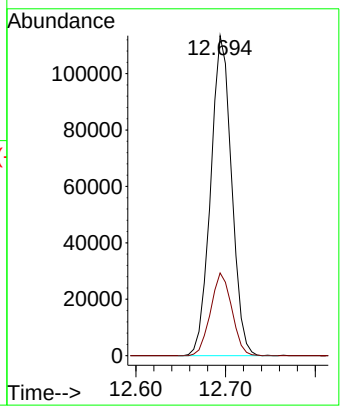
Tgt Ion:105 Resp: 18358

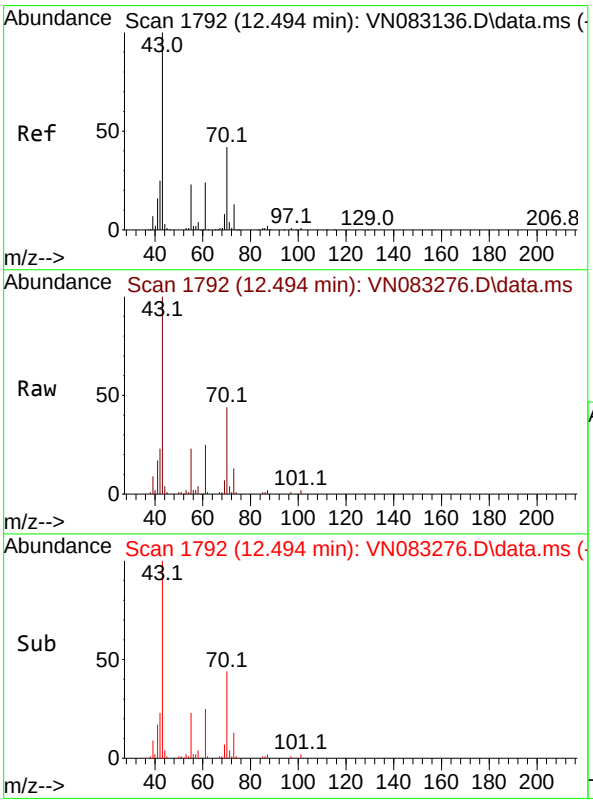
Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.9	38.6

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

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Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

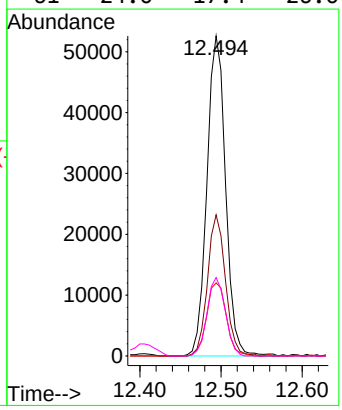


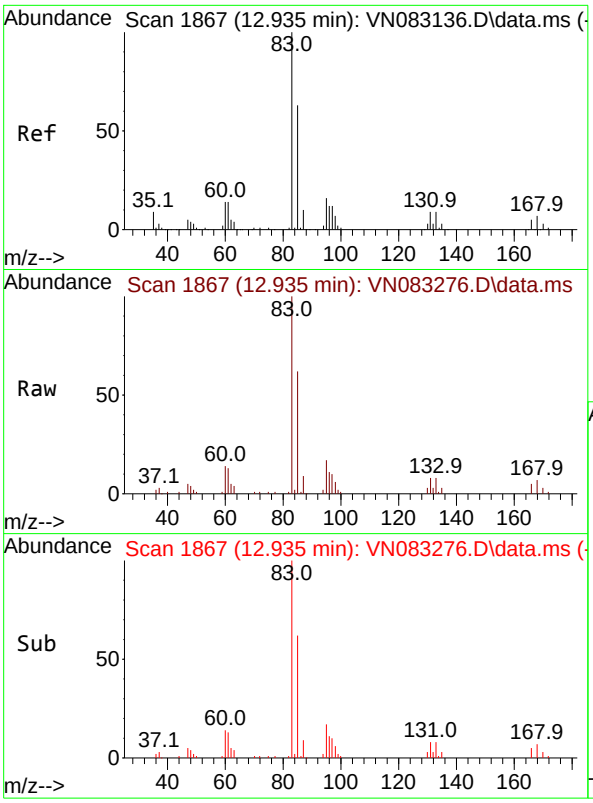


#74
N-amyl acetate
Concen: 17.895 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 43 Resp: 83867

Ion	Ratio	Lower	Upper
43	100		
70	42.4	29.8	44.6
55	24.0	18.7	28.1
61	24.0	17.4	26.0

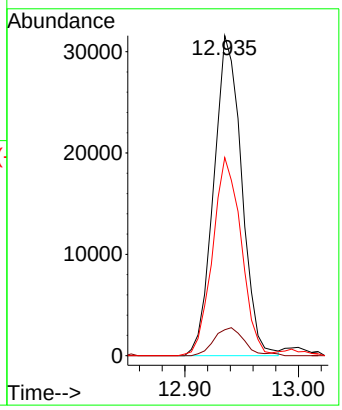




#75
1,1,2,2-Tetrachloroethane
Concen: 19.837 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 83 Resp: 5375

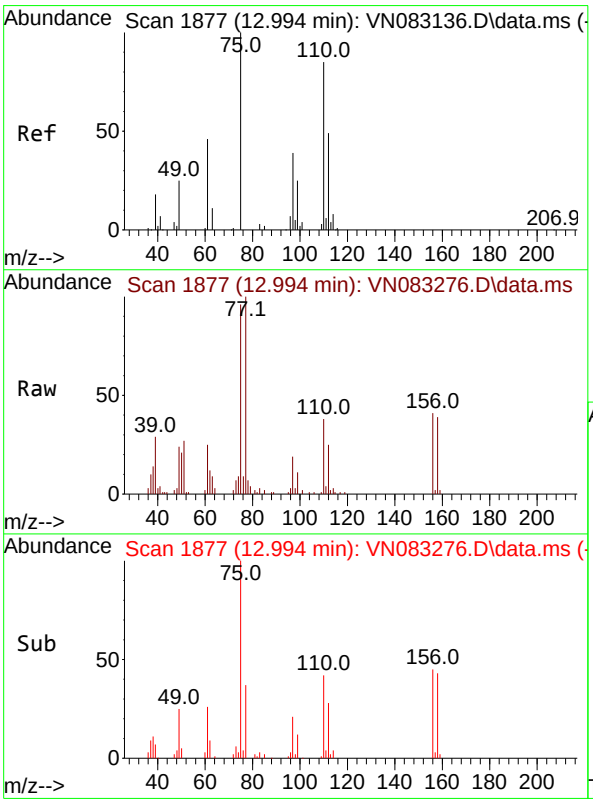
Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.0	14.9
85	63.6	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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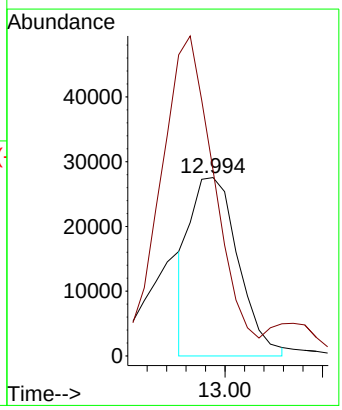
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

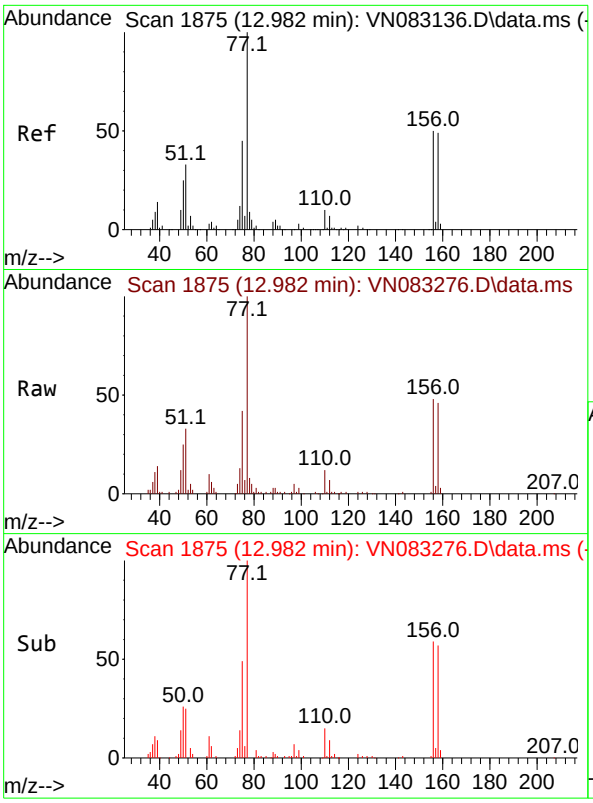


#76
1,2,3-Trichloropropane
Concen: 18.714 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 75 Resp: 47050

Ion	Ratio	Lower	Upper
75	100		
77	203.5	110.9	332.6

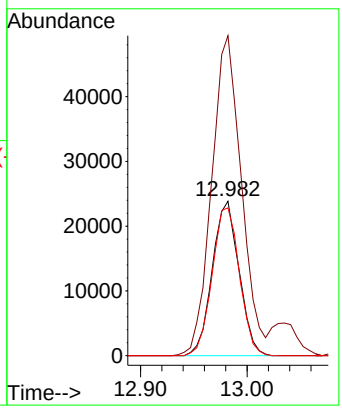




#77
Bromobenzene
Concen: 19.561 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:156 Resp: 4163

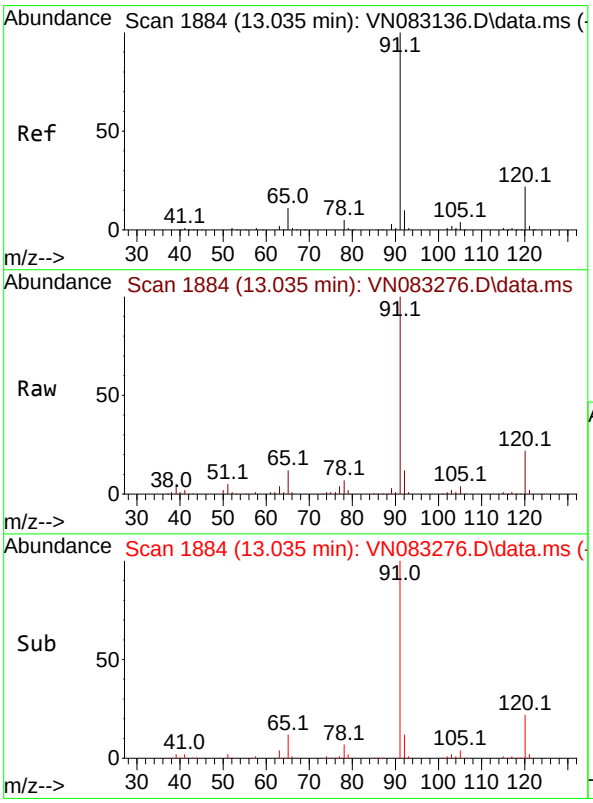
Ion	Ratio	Lower	Upper
156	100		
77	230.0	111.3	333.8
158	97.6	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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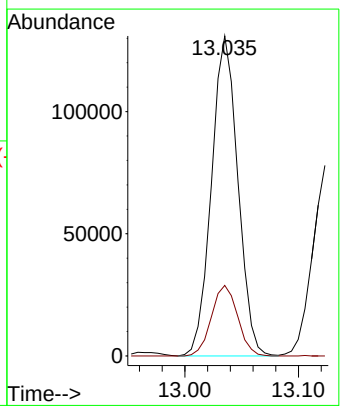
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

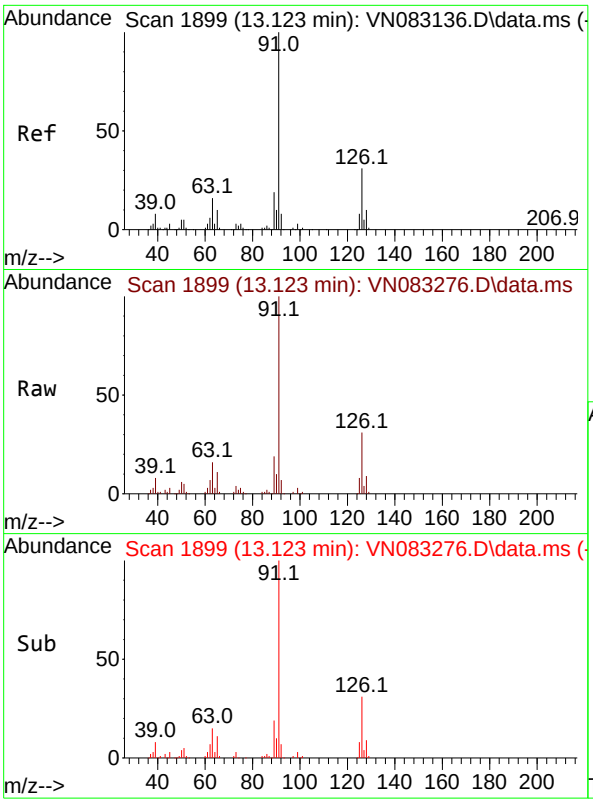


#78
n-propylbenzene
Concen: 19.187 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 91 Resp: 211685

Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.9	32.9

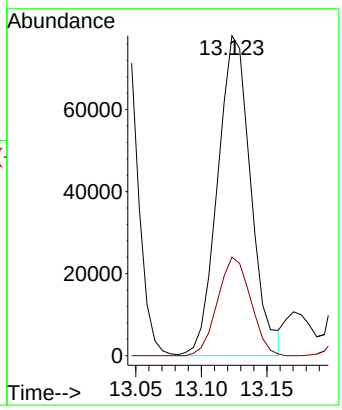




#79
2-Chlorotoluene
Concen: 19.656 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 91 Resp: 13748

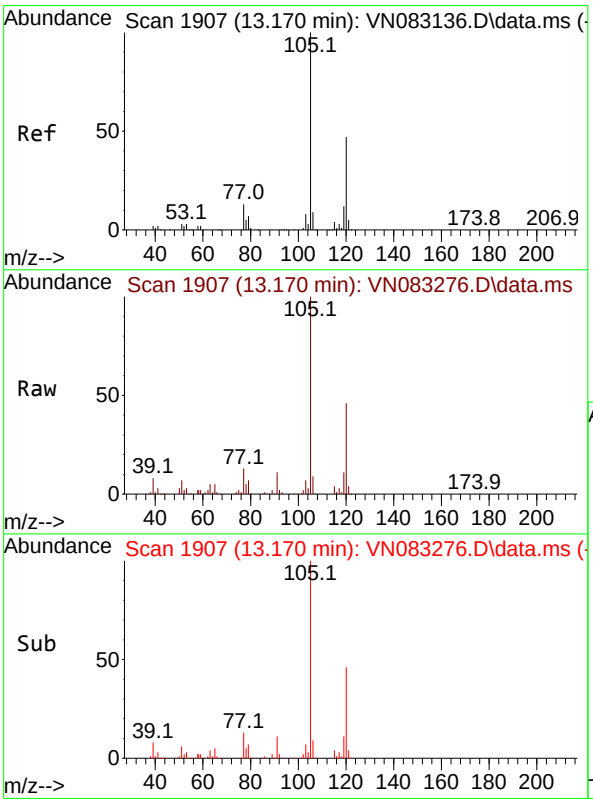
Ion	Ratio	Lower	Upper
91	100		
126	30.6	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

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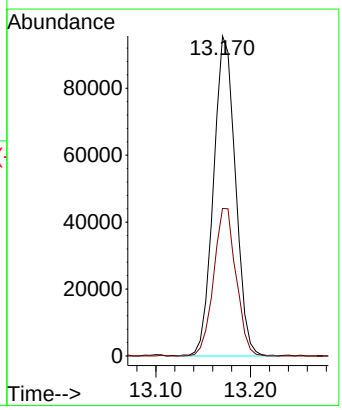
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

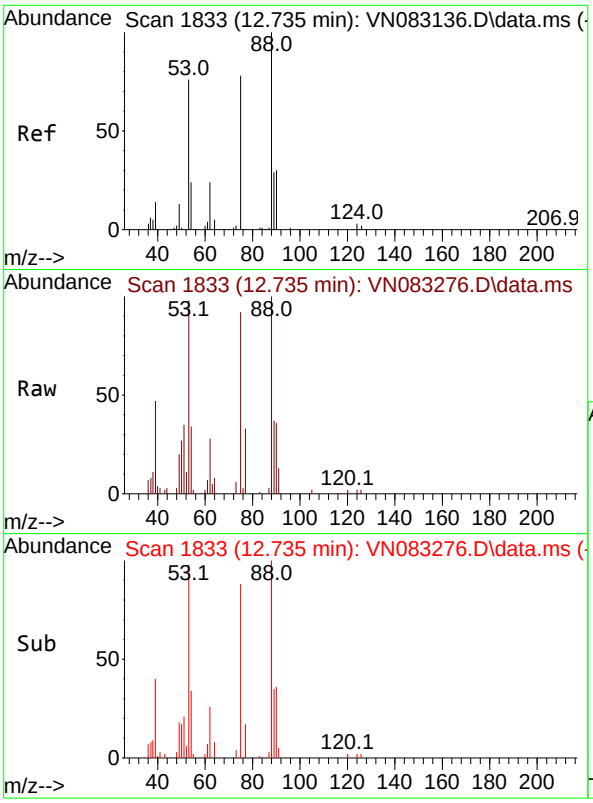


#80
1,3,5-Trimethylbenzene
Concen: 19.233 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:105 Resp: 154286

Ion	Ratio	Lower	Upper
105	100		
120	47.1	24.3	72.8

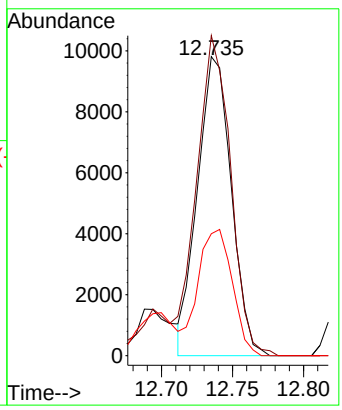




#81
trans-1,4-Dichloro-2-butene
Concen: 14.033 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 75 Resp: 1622

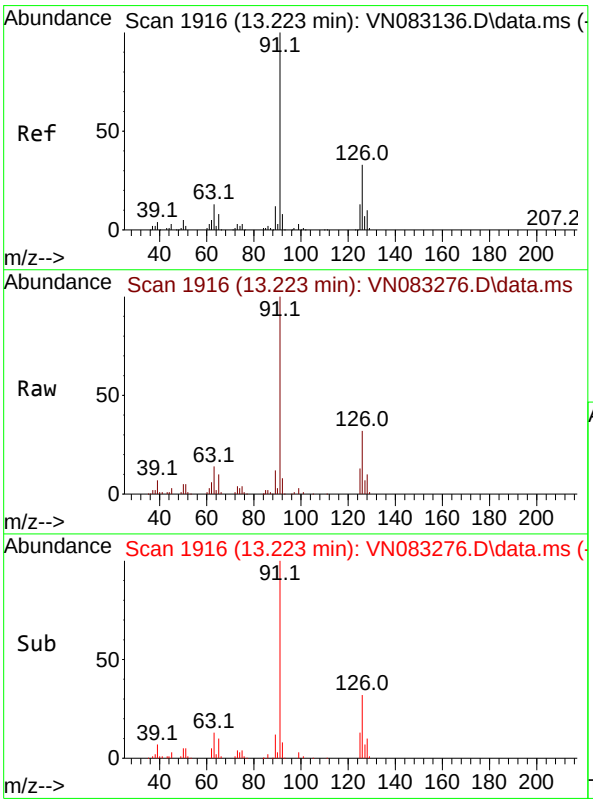
Ion	Ratio	Lower	Upper
75	100		
53	109.1	88.4	132.6
89	43.3	36.3	54.5



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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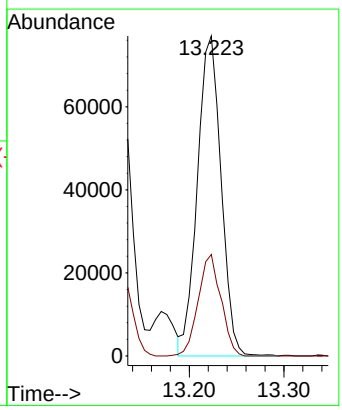
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

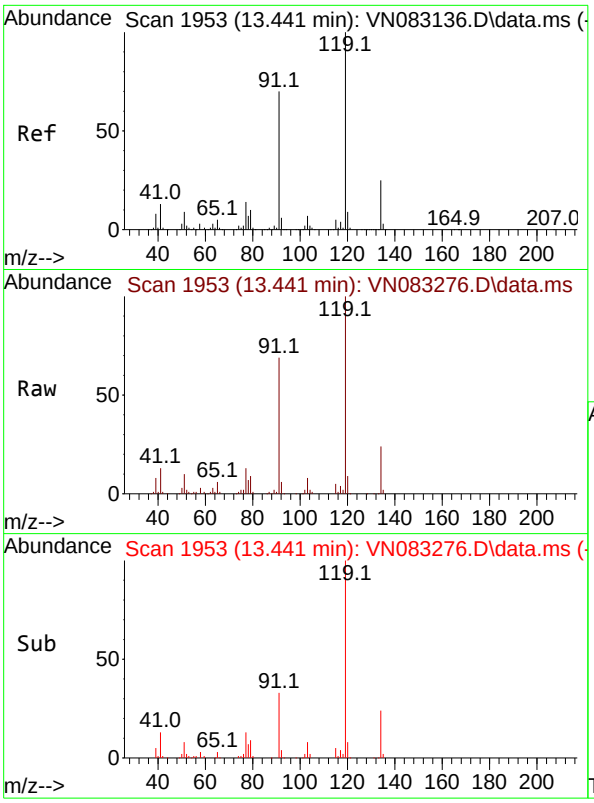


#82
4-Chlorotoluene
Concen: 19.104 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 91 Resp: 134043

Ion	Ratio	Lower	Upper
91	100		
126	30.4	16.2	48.6

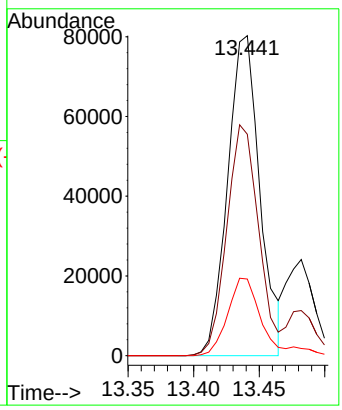




#83
tert-Butylbenzene
Concen: 19.399 ug/l
RT: 13.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:119 Resp: 13780

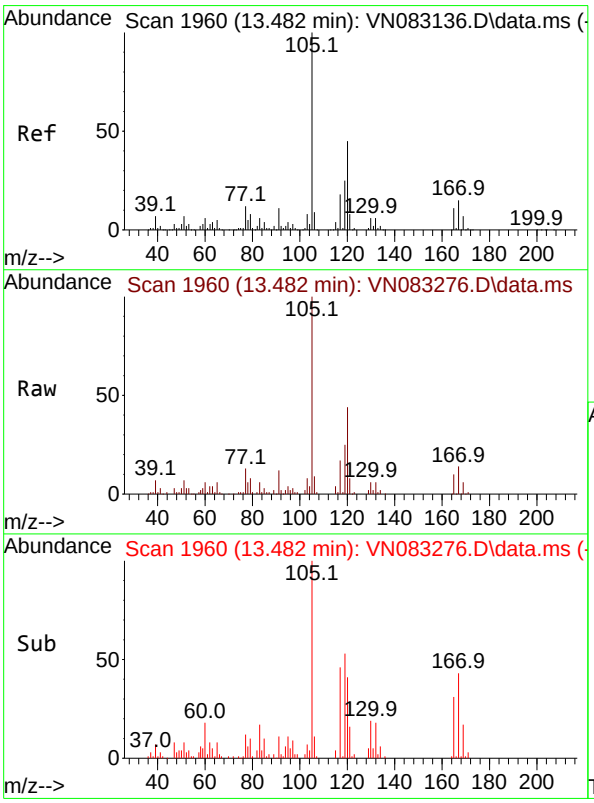
Ion	Ratio	Lower	Upper
119	100		
91	71.1	35.0	105.1
134	24.2	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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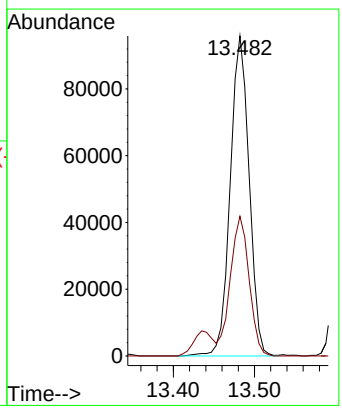
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

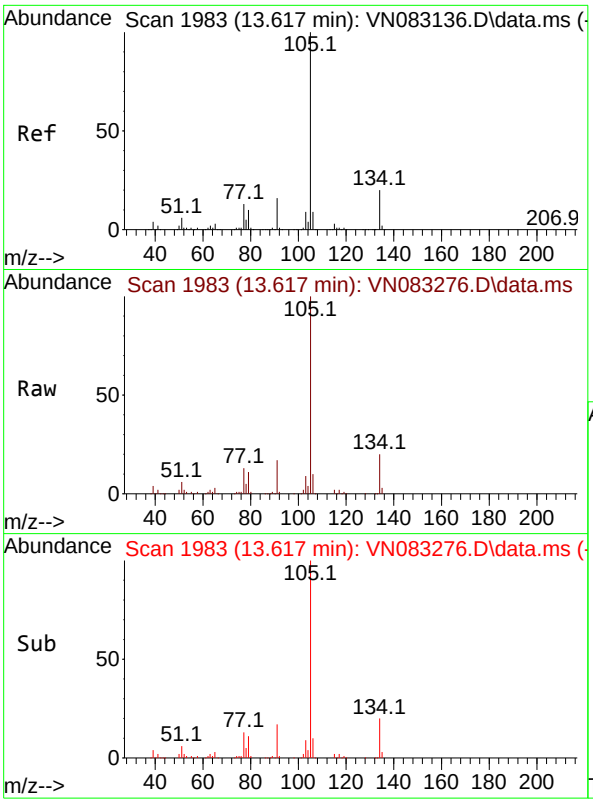


#84
1,2,4-Trimethylbenzene
Concen: 19.149 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:105 Resp: 154805

Ion	Ratio	Lower	Upper
105	100		
120	43.6	21.9	65.8





#85
sec-Butylbenzene
Concen: 18.978 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

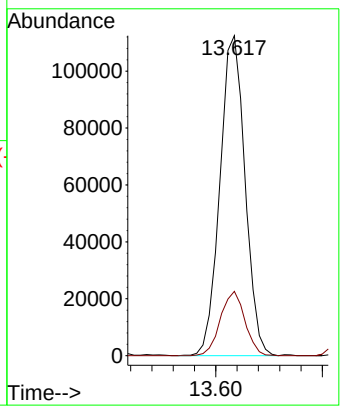
Tgt Ion:105 Resp: 18395

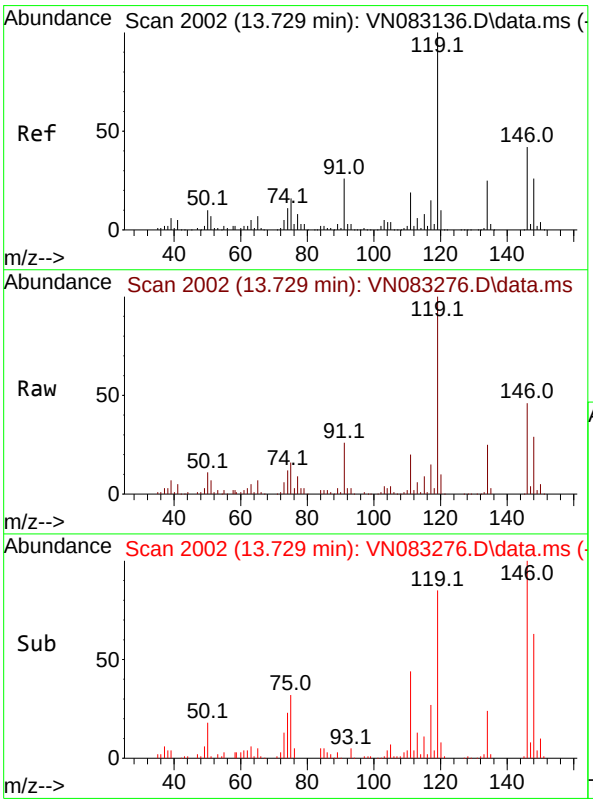
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

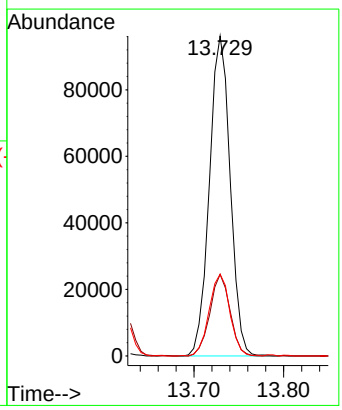


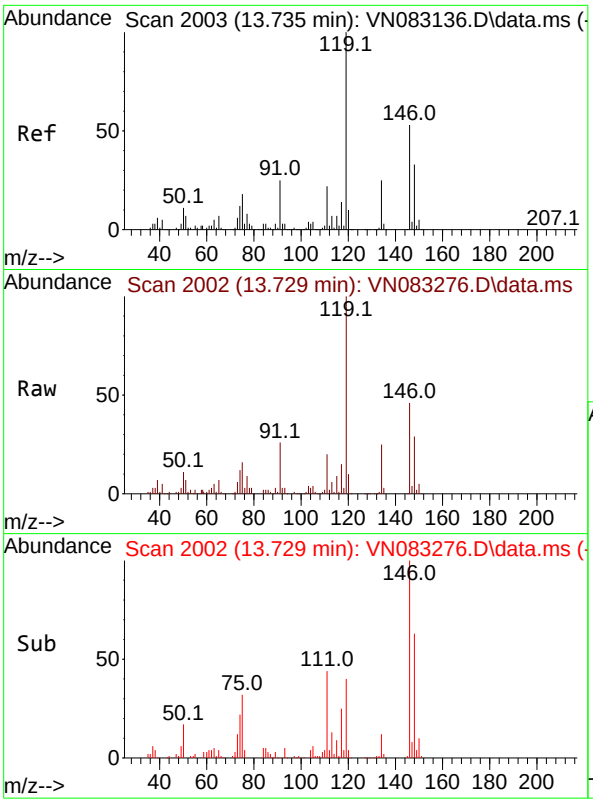


#86
p-Isopropyltoluene
Concen: 19.332 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:119 Resp: 154726

Ion	Ratio	Lower	Upper
119	100		
134	24.7	13.0	39.0
91	25.4	12.3	36.9

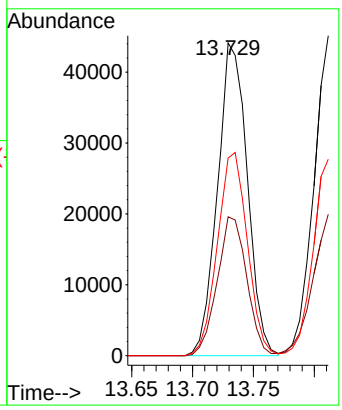




#87
1,3-Dichlorobenzene
Concen: 18.784 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:146 Resp: 7523

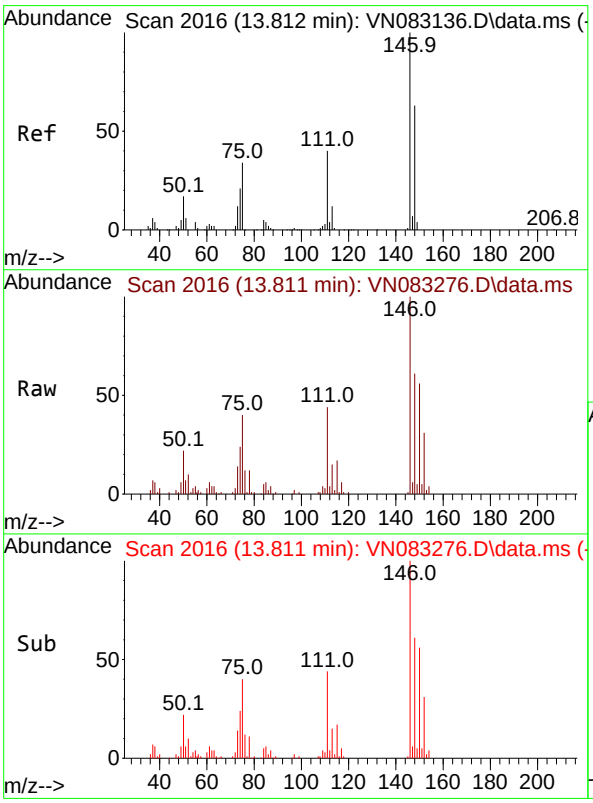
Ion	Ratio	Lower	Upper
146	100		
111	44.1	20.6	61.9
148	65.4	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations APPROVED

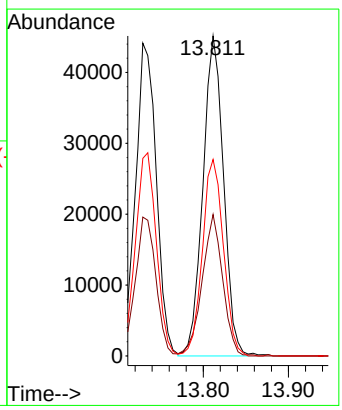
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

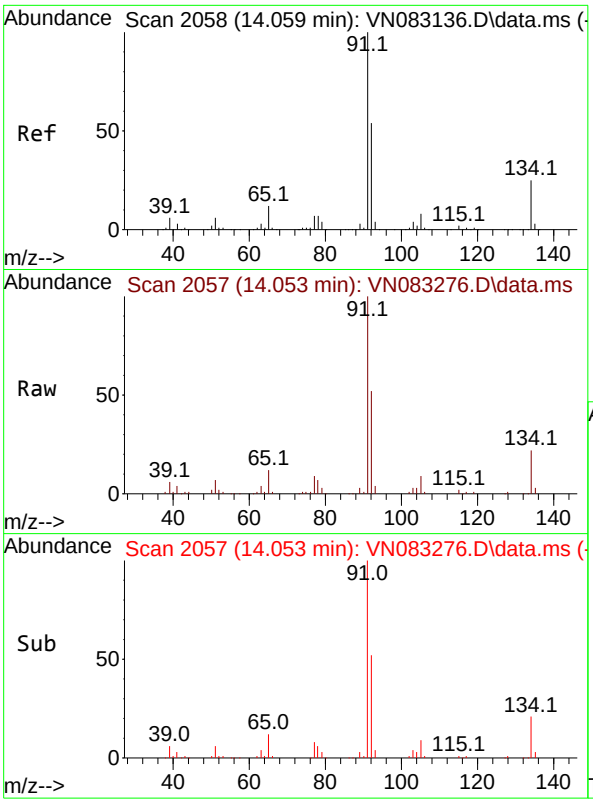


#88
1,4-Dichlorobenzene
Concen: 18.897 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:146 Resp: 76298

Ion	Ratio	Lower	Upper
146	100		
111	43.9	20.1	60.3
148	62.4	32.2	96.6

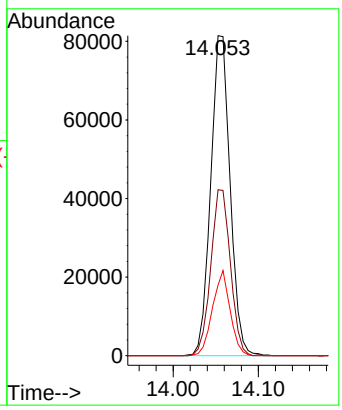




#89
n-Butylbenzene
Concen: 18.531 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 91 Resp: 12851

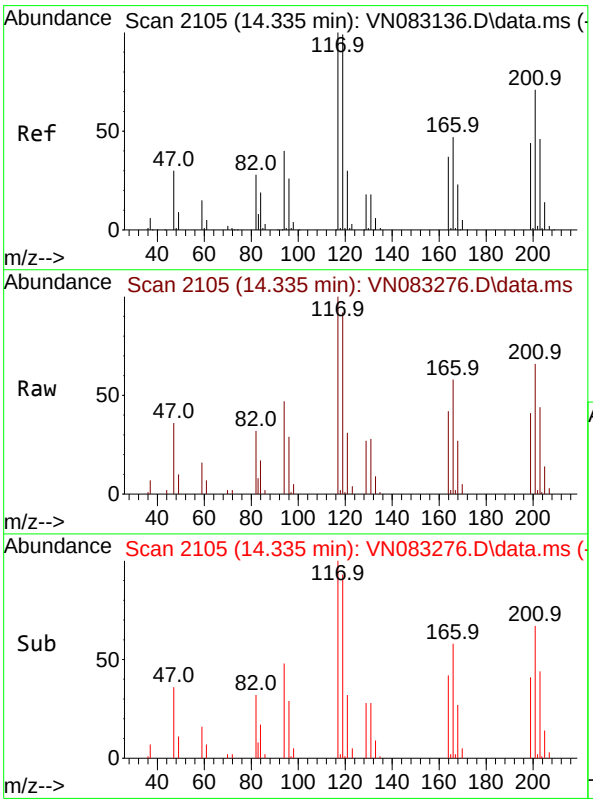
Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.1	78.3
134	24.1	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
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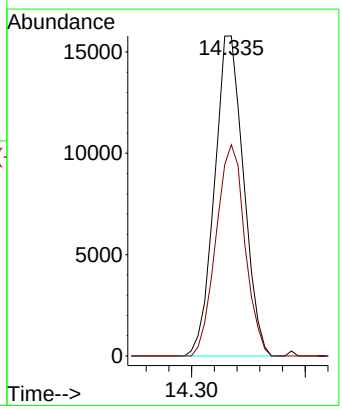
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

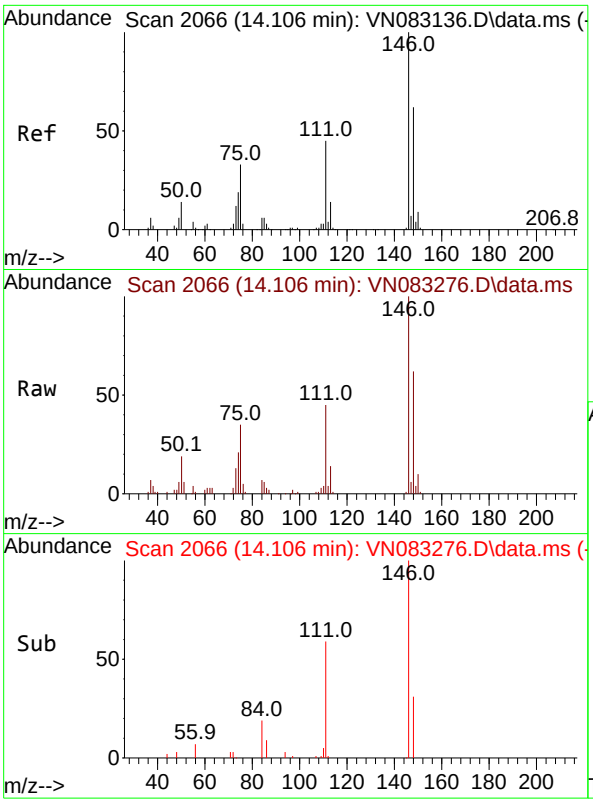


#90
Hexachloroethane
Concen: 18.148 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:117 Resp: 28062

Ion	Ratio	Lower	Upper
117	100		
201	65.5	35.8	107.3

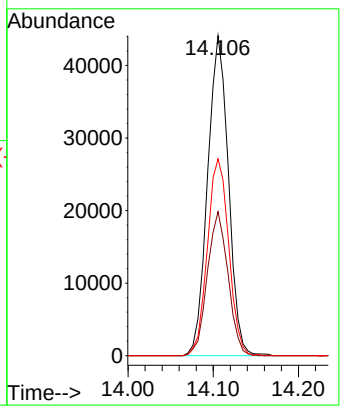




#91
1,2-Dichlorobenzene
Concen: 19.369 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:146 Resp: 7506

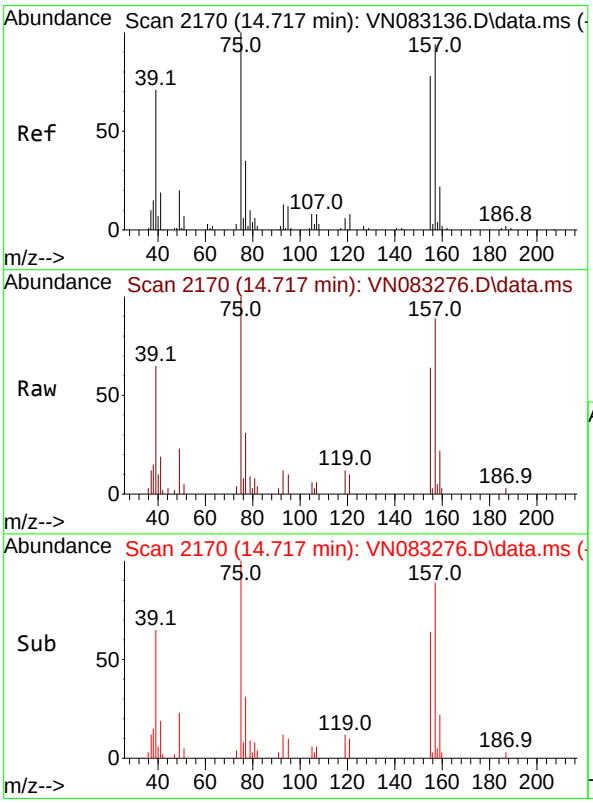
Ion	Ratio	Lower	Upper
146	100		
111	44.8	21.4	64.2
148	62.9	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

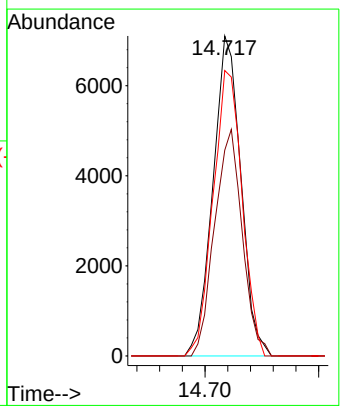
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

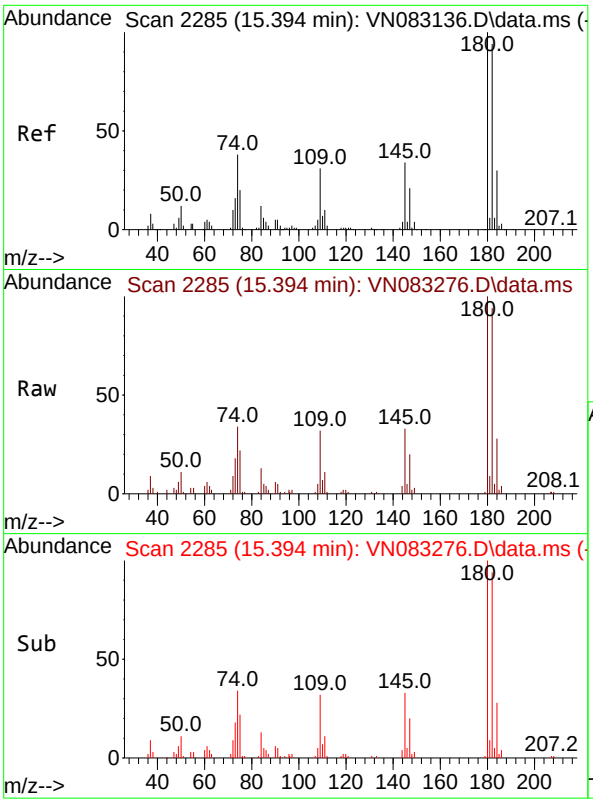


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.433 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 75 Resp: 12122

Ion	Ratio	Lower	Upper
75	100		
155	70.3	36.6	109.8
157	92.6	46.9	140.6





#93
1,2,4-Trichlorobenzene
Concen: 18.323 ug/l
RT: 15.394 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

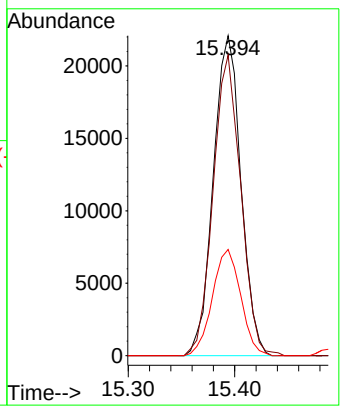
Tgt Ion:180 Resp: 3978

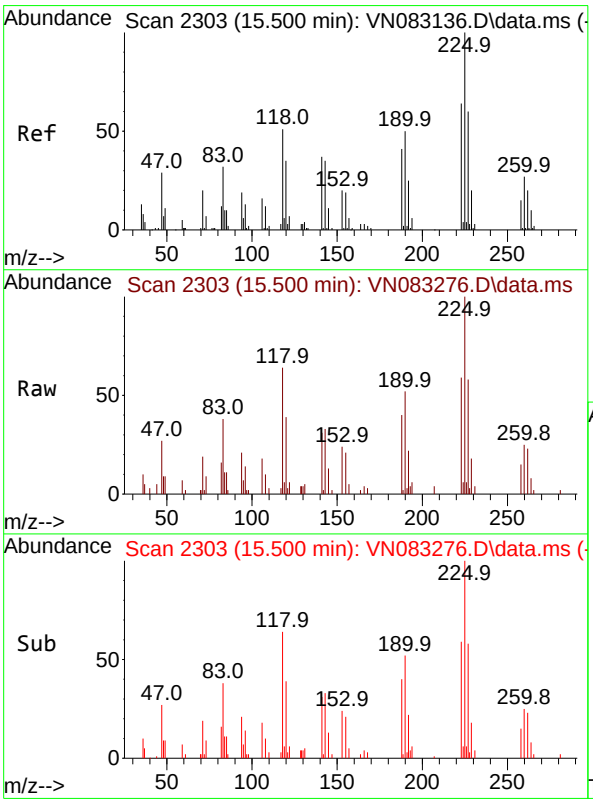
Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.3	141.8
145	34.0	15.7	47.1

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

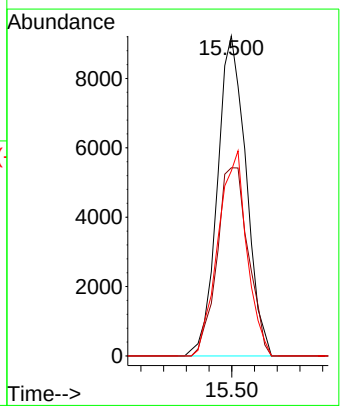


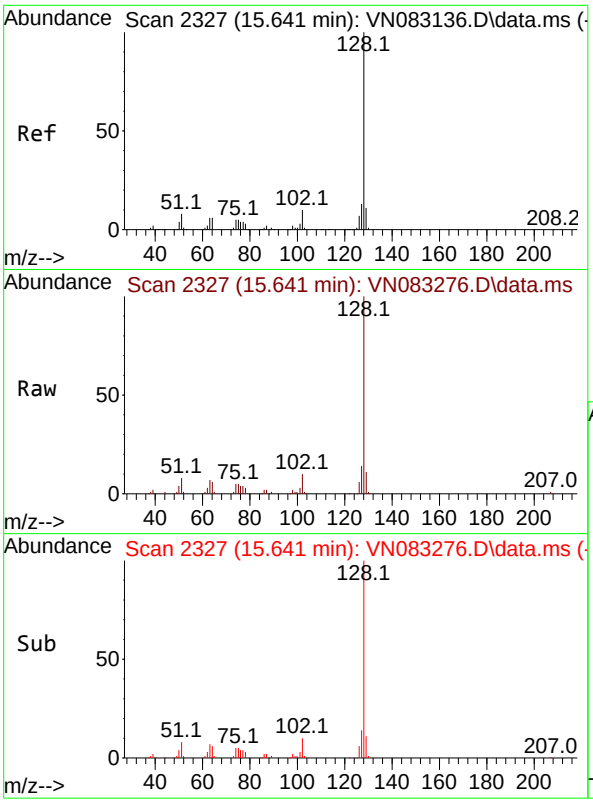


#94
Hexachlorobutadiene
Concen: 16.733 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:225 Resp: 16158

Ion	Ratio	Lower	Upper
225	100		
223	64.5	31.9	95.7
227	64.2	32.5	97.5

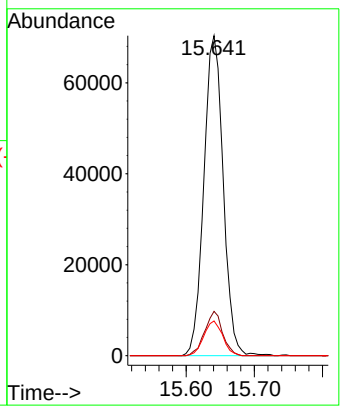




#95
Naphthalene
Concen: 18.081 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:128 Resp: 13906

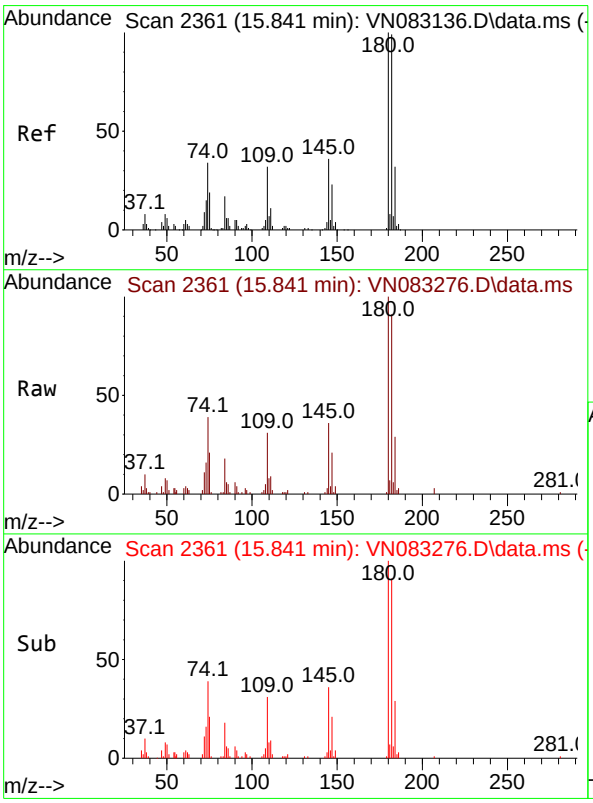
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.6	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

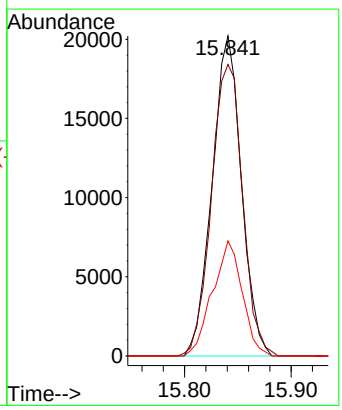
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#96
1,2,3-Trichlorobenzene
Concen: 17.941 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:180 Resp: 38544

Ion	Ratio	Lower	Upper
180	100		
182	97.1	48.9	146.8
145	36.5	16.8	50.4



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	924-K1-WP0-0.25-080224MS	SDG No.:	P3451
Lab Sample ID:	P3466-02MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083291.D	1		08/14/24 10:28	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	49.6		0.21	1.00	ug/L
74-87-3	Chloromethane	50.6		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	53.7		0.34	1.00	ug/L
74-83-9	Bromomethane	40.3		1.40	5.00	ug/L
75-00-3	Chloroethane	56.4		0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	53.7		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	52.0		0.26	1.00	ug/L
67-64-1	Acetone	250		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	44.0		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	55.1		0.16	1.00	ug/L
75-09-2	Methylene Chloride	51.5		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	51.7		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	55.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	46.9		1.60	5.00	ug/L
78-93-3	2-Butanone	260		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	53.3		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	53.0		0.25	1.00	ug/L
67-66-3	Chloroform	57.4		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	55.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	46.5		0.19	1.00	ug/L
71-43-2	Benzene	52.7		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	54.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	51.1		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	53.2		0.24	1.00	ug/L
108-88-3	Toluene	53.8		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	56.4		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	55.2		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	47.8		0.25	1.00	ug/L
108-90-7	Chlorobenzene	51.2		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	51.4		0.16	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	924-K1-WP0-0.25-080224MS	SDG No.:	P3451
Lab Sample ID:	P3466-02MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083291.D	1		08/14/24 10:28	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	100		0.31	2.00	ug/L
1330-20-7	Total Xylenes	152		0.45	3.00	ug/L
95-47-6	o-Xylene	51.6		0.14	1.00	ug/L
98-82-8	Isopropylbenzene	49.7		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	49.4		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	49.5		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.3		70 (74) - 130 (125)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		70 (75) - 130 (124)	109%	SPK: 50
2037-26-5	Toluene-d8	53.6		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	148000	8.224			
540-36-3	1,4-Difluorobenzene	267000	9.1			
3114-55-4	Chlorobenzene-d5	237000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	114000	13.794			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083291.D
Acq On : 14 Aug 2024 10:28
Operator : JC\MD
Sample : P3466-02MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Aug 14 14:15:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	147545	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	267105	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	236618	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	114165	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	122369	58.267	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.540%			
35) Dibromofluoromethane	8.165	113	90920	54.534	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.060%			
50) Toluene-d8	10.565	98	333167	53.572	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.140%			
62) 4-Bromofluorobenzene	12.847	95	132370	54.595	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 109.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	82997	49.604	ug/l	96
3) Chloromethane	2.365	50	86740	50.636	ug/l	98
4) Vinyl Chloride	2.512	62	93887	53.714	ug/l	99
5) Bromomethane	2.942	94	43709	40.300	ug/l	94
6) Chloroethane	3.112	64	61659	56.384	ug/l	99
7) Trichlorofluoromethane	3.494	101	161438	55.909	ug/l	95
8) Diethyl Ether	3.959	74	57031	53.078	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.371	101	85461	53.682	ug/l	97
10) Methyl Iodide	4.583	142	82185	39.245	ug/l	97
11) Tert butyl alcohol	5.524	59	114912	263.289	ug/l	100
12) 1,1-Dichloroethene	4.341	96	85068	52.011	ug/l	88
13) Acrolein	4.177	56	66719	234.553	ug/l	97
14) Allyl chloride	5.024	41	131317	42.486	ug/l	92
15) Acrylonitrile	5.718	53	241693	269.261	ug/l	99
16) Acetone	4.430	43	208489	253.705	ug/l	96
17) Carbon Disulfide	4.712	76	210417	43.968	ug/l	99
18) Methyl Acetate	5.030	43	108637	44.370	ug/l	92
19) Methyl tert-butyl Ether	5.794	73	325125	55.073	ug/l	99
20) Methylene Chloride	5.277	84	97482	51.543	ug/l	84
21) trans-1,2-Dichloroethene	5.788	96	87367	51.683	ug/l	90
22) Diisopropyl ether	6.671	45	321877	55.402	ug/l	98
23) Vinyl Acetate	6.606	43	1279268	214.822	ug/l #	94
24) 1,1-Dichloroethane	6.559	63	176895	55.860	ug/l	100
25) 2-Butanone	7.482	43	323699	256.535	ug/l	93
26) 2,2-Dichloropropane	7.488	77	74497	25.331	ug/l	93
27) cis-1,2-Dichloroethene	7.488	96	108174	53.030	ug/l	88
28) Bromochloromethane	7.812	49	71165	54.989	ug/l	87
29) Tetrahydrofuran	7.841	42	223288	273.745	ug/l	88
30) Chloroform	7.965	83	188887	57.412	ug/l	97
31) Cyclohexane	8.259	56	146060	46.930	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	172642	55.438	ug/l	96
36) 1,1-Dichloropropene	8.371	75	128085	50.786	ug/l	99
37) Ethyl Acetate	7.565	43	111903	39.628	ug/l #	94
38) Carbon Tetrachloride	8.365	117	151450	53.316	ug/l	99
39) Methylcyclohexane	9.600	83	144098	46.518	ug/l	93
40) Benzene	8.606	78	395669	52.663	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083291.D
Acq On : 14 Aug 2024 10:28
Operator : JC\MD
Sample : P3466-02MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Aug 14 14:15:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	77441	48.232	ug/l		95
42) 1,2-Dichloroethane	8.671	62	150044	54.823	ug/l		98
43) Isopropyl Acetate	8.688	43	222619	45.145	ug/l	#	93
44) Trichloroethene	9.353	130	91313	51.061	ug/l		93
45) 1,2-Dichloropropane	9.618	63	98166	55.044	ug/l		99
46) Dibromomethane	9.706	93	71294	55.850	ug/l		98
47) Bromodichloromethane	9.888	83	152349	53.153	ug/l		100
48) Methyl methacrylate	9.682	41	113855	48.769	ug/l		91
49) 1,4-Dioxane	9.694	88	39426	936.076	ug/l		96
51) 4-Methyl-2-Pentanone	10.447	43	710872	266.212	ug/l		93
52) Toluene	10.629	92	255610	53.845	ug/l		98
53) t-1,3-Dichloropropene	10.835	75	139852	47.500	ug/l		100
54) cis-1,3-Dichloropropene	10.312	75	145290	46.395	ug/l		92
55) 1,1,2-Trichloroethane	11.018	97	95913	56.379	ug/l		96
56) Ethyl methacrylate	10.876	69	168724	52.609	ug/l		88
57) 1,3-Dichloropropane	11.165	76	164803	54.349	ug/l		99
59) 2-Hexanone	11.194	43	533360	258.178	ug/l		94
60) Dibromochloromethane	11.359	129	113552	55.207	ug/l		99
61) 1,2-Dibromoethane	11.470	107	95465	53.418	ug/l		96
64) Tetrachloroethene	11.106	164	74983	47.849	ug/l		96
65) Chlorobenzene	11.894	112	267734	51.202	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	96243	52.188	ug/l		99
67) Ethyl Benzene	11.964	91	493460	51.443	ug/l		100
68) m/p-Xylenes	12.070	106	367755	102.346	ug/l		98
69) o-Xylene	12.400	106	182861	51.599	ug/l		100
70) Styrene	12.412	104	307766	51.707	ug/l		99
71) Bromoform	12.576	173	72561	51.938	ug/l	#	99
73) Isopropylbenzene	12.694	105	474897	49.732	ug/l		100
74) N-amyl acetate	12.494	43	178930	38.308	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.935	83	138825	51.402	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	105179m	41.977	ug/l		
77) Bromobenzene	12.982	156	108487	51.143	ug/l		98
78) n-propylbenzene	13.035	91	548792	49.911	ug/l		100
79) 2-Chlorotoluene	13.123	91	348757	50.029	ug/l		96
80) 1,3,5-Trimethylbenzene	13.176	105	398348	49.827	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.741	75	43995	38.194	ug/l		88
82) 4-Chlorotoluene	13.223	91	347826	49.743	ug/l		98
83) tert-Butylbenzene	13.441	119	352698	49.817	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	404542	50.212	ug/l		100
85) sec-Butylbenzene	13.617	105	474766	49.145	ug/l		99
86) p-Isopropyltoluene	13.729	119	399173	50.044	ug/l		98
87) 1,3-Dichlorobenzene	13.735	146	197945	49.593	ug/l		98
88) 1,4-Dichlorobenzene	13.811	146	198776	49.398	ug/l		99
89) n-Butylbenzene	14.058	91	327504	47.385	ug/l		98
90) Hexachloroethane	14.335	117	74906	48.608	ug/l		94
91) 1,2-Dichlorobenzene	14.106	146	191027	49.457	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30124	45.965	ug/l		99
93) 1,2,4-Trichlorobenzene	15.394	180	100832	46.598	ug/l		98
94) Hexachlorobutadiene	15.500	225	39541	41.088	ug/l		100
95) Naphthalene	15.641	128	366023	47.753	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	102340	47.797	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083291.D
Acq On : 14 Aug 2024 10:28
Operator : JC\MD
Sample : P3466-02MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Aug 14 14:15:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

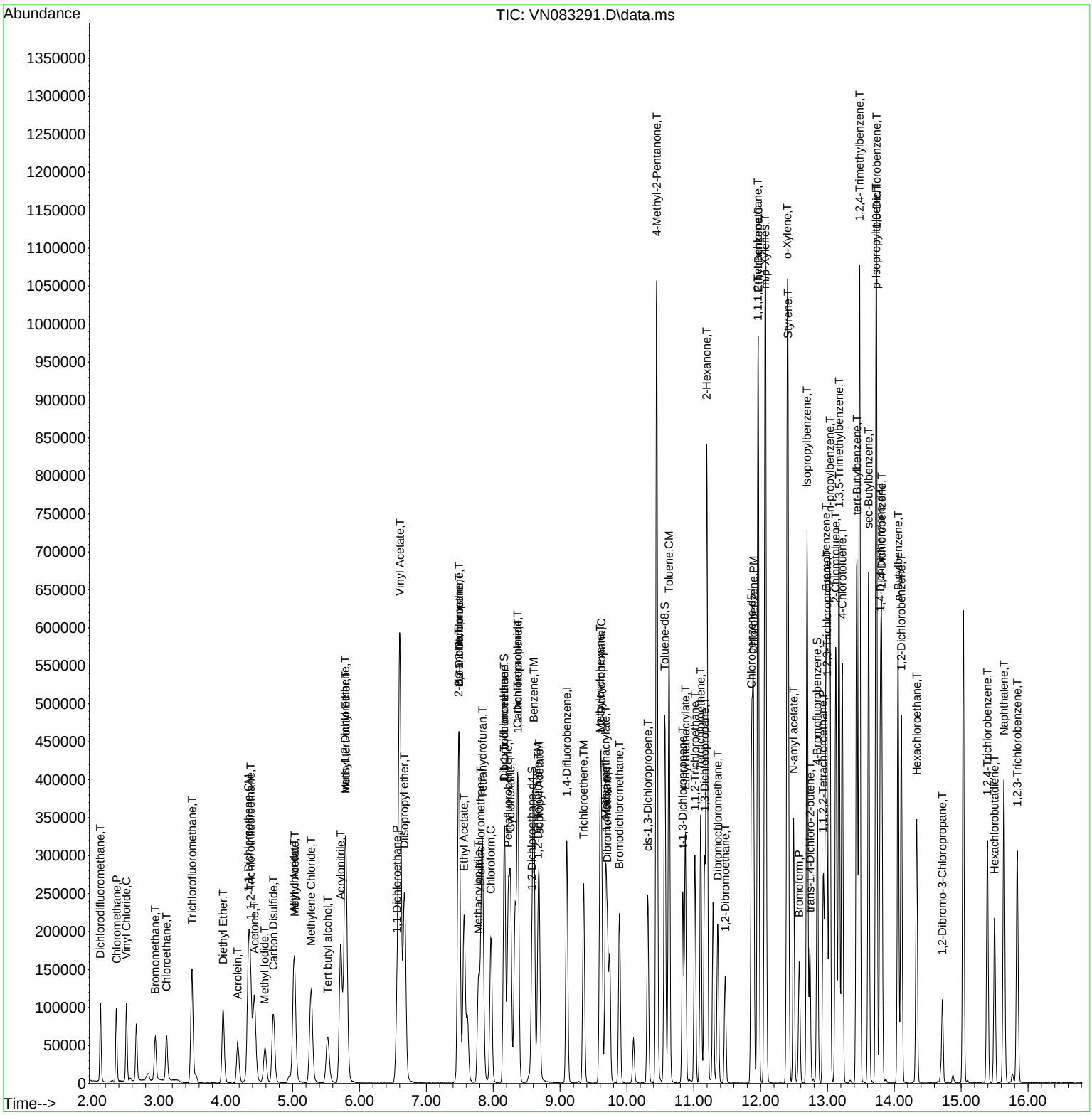
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083291.D
Acq On : 14 Aug 2024 10:28
Operator : JC\MD
Sample : P3466-02MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 52 Sample Multiplier: 1

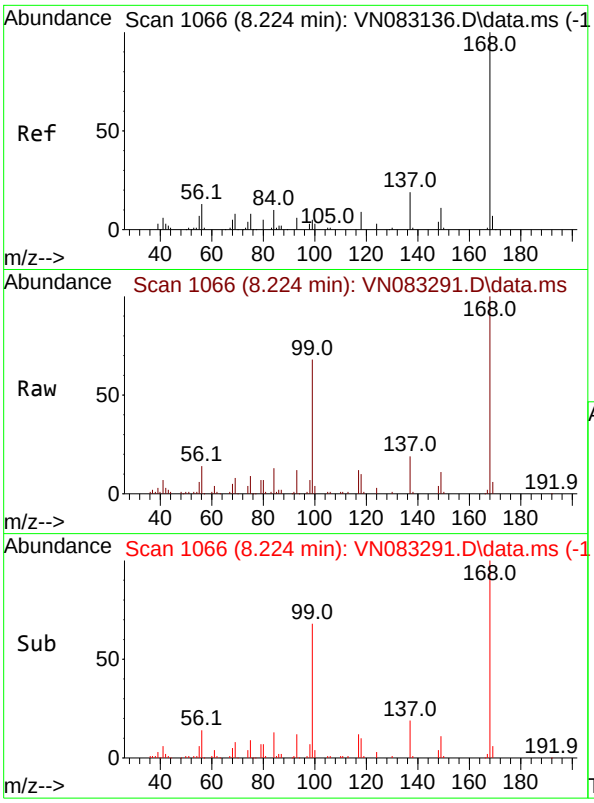
Quant Time: Aug 14 14:15:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

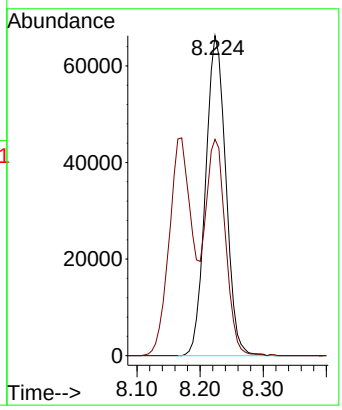




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:168 Resp: 14754

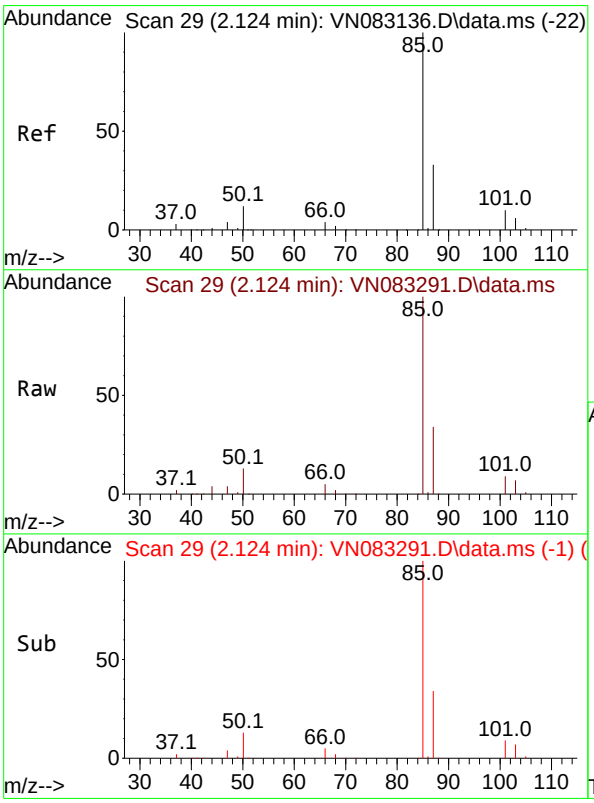
Ion	Ratio	Lower	Upper
168	100		
99	67.6	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

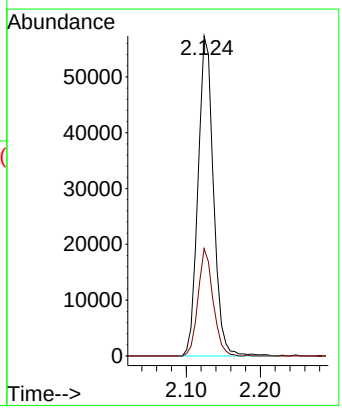
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

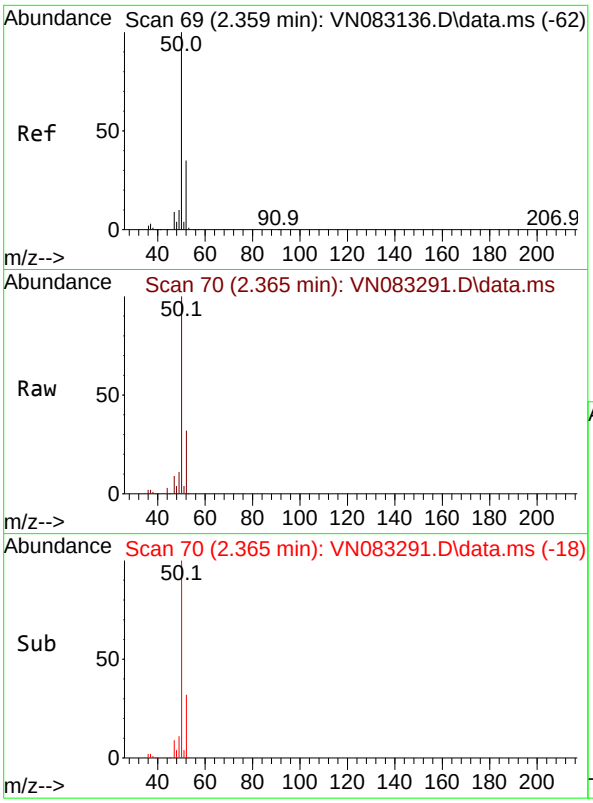


#2
Dichlorodifluoromethane
Concen: 49.604 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 85 Resp: 82997

Ion	Ratio	Lower	Upper
85	100		
87	33.5	15.7	47.0

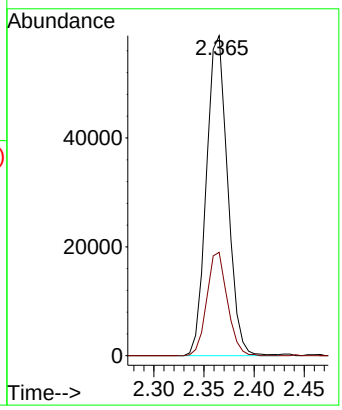




#3
Chloromethane
Concen: 50.636 ug/l
RT: 2.365 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 50 Resp: 8674

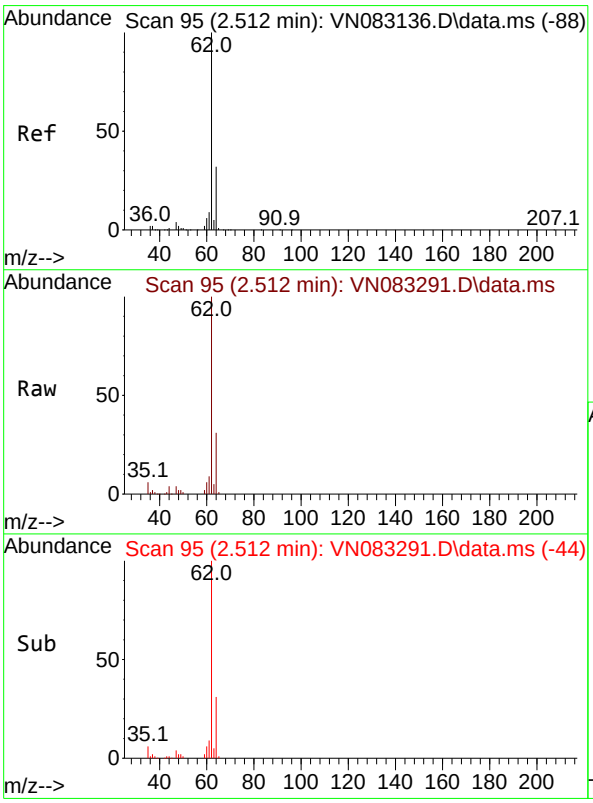
Ion	Ratio	Lower	Upper
50	100		
52	32.3	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

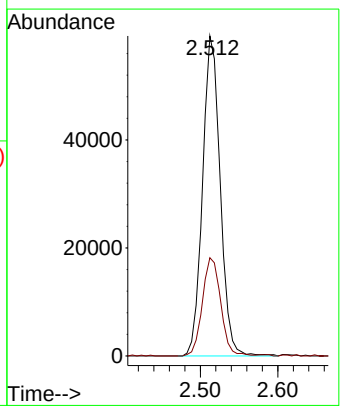
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

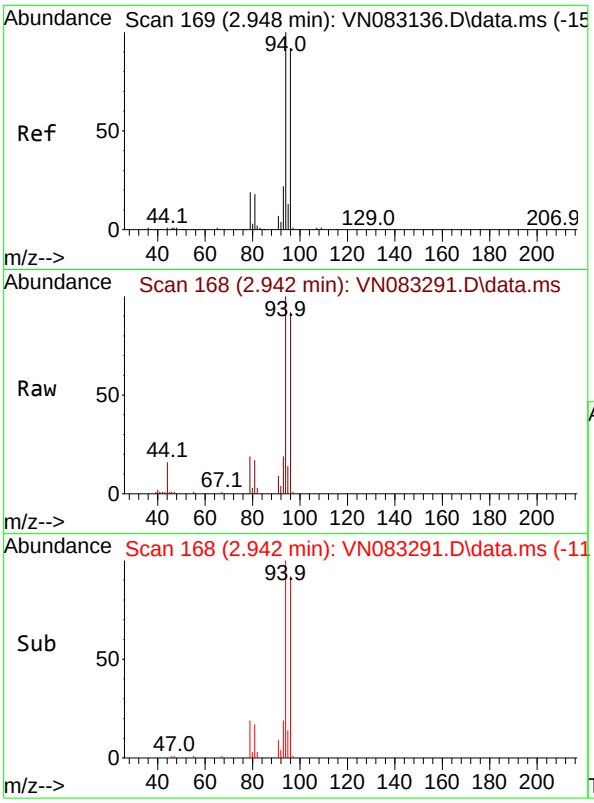


#4
Vinyl Chloride
Concen: 53.714 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 62 Resp: 93887

Ion	Ratio	Lower	Upper
62	100		
64	30.7	25.0	37.6

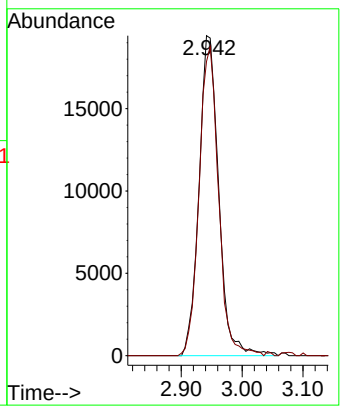




#5
Bromomethane
Concen: 40.300 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 94 Resp: 4370

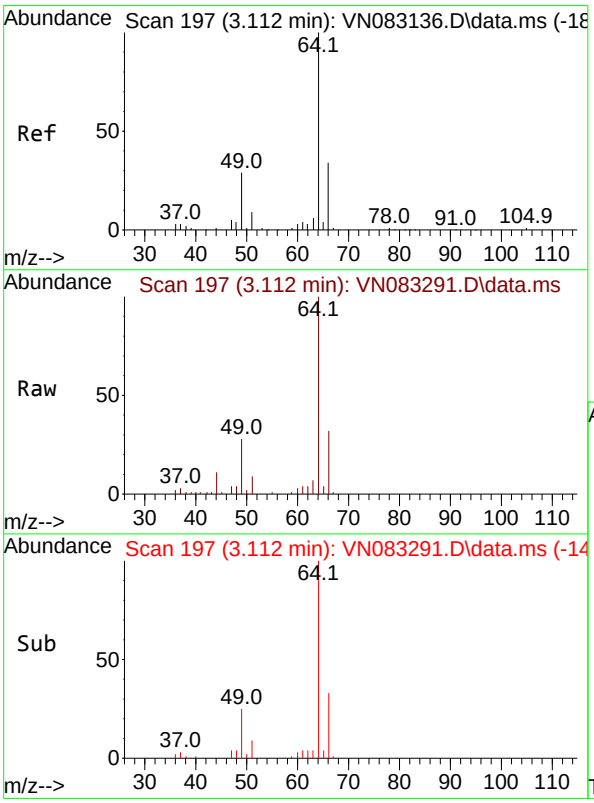
Ion	Ratio	Lower	Upper
94	100		
96	91.9	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

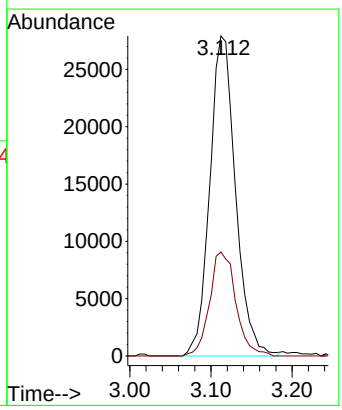
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

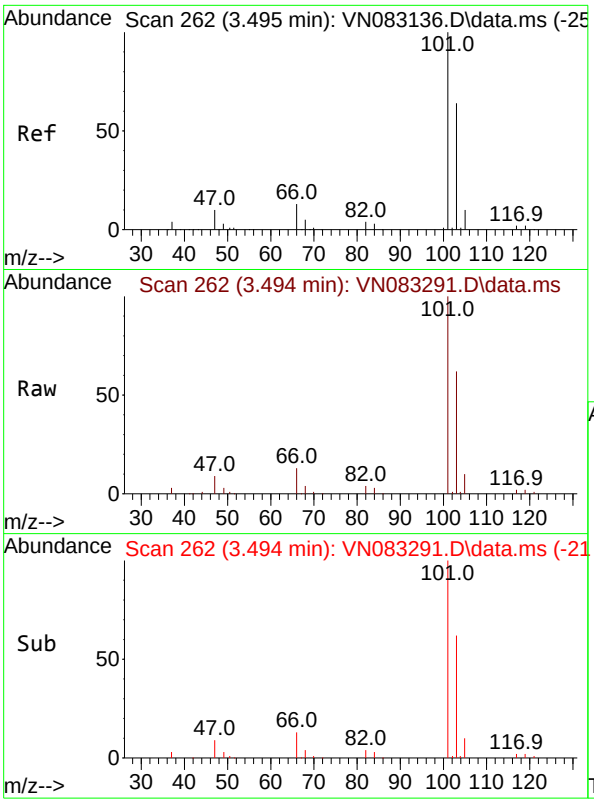


#6
Chloroethane
Concen: 56.384 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 64 Resp: 61659

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.6	40.0





#7
Trichlorofluoromethane
Concen: 55.909 ug/l
RT: 3.494 min Scan# 2
Delta R.T. -0.001 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

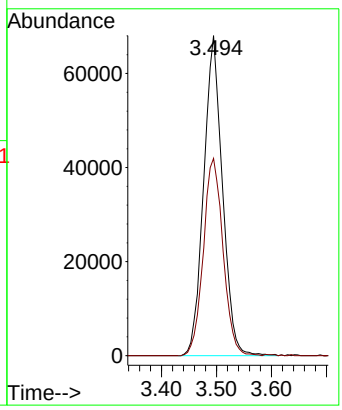
Tgt Ion:101 Resp: 16143

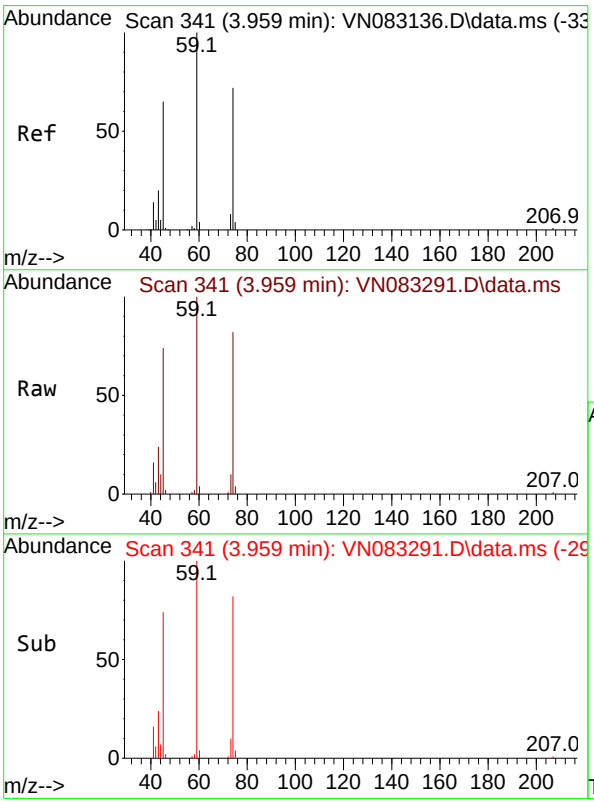
Ion	Ratio	Lower	Upper
101	100		
103	61.7	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

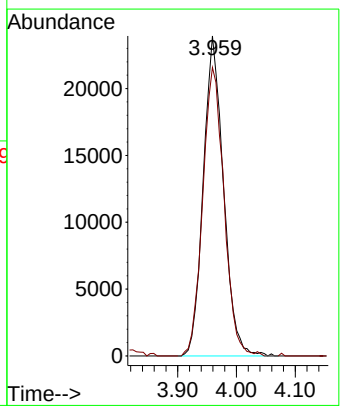


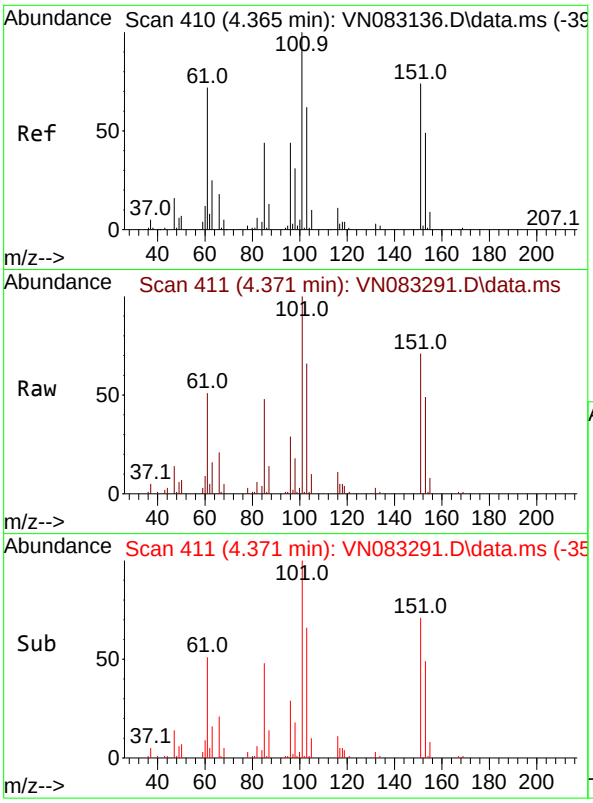


#8
Diethyl Ether
Concen: 53.078 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 74 Resp: 57031

Ion	Ratio	Lower	Upper
74	100		
45	95.1	55.5	166.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.682 ug/l
RT: 4.371 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

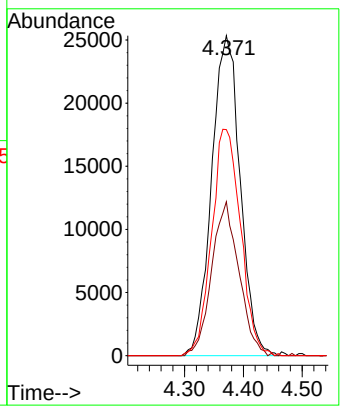
Tgt Ion:101 Resp: 8546

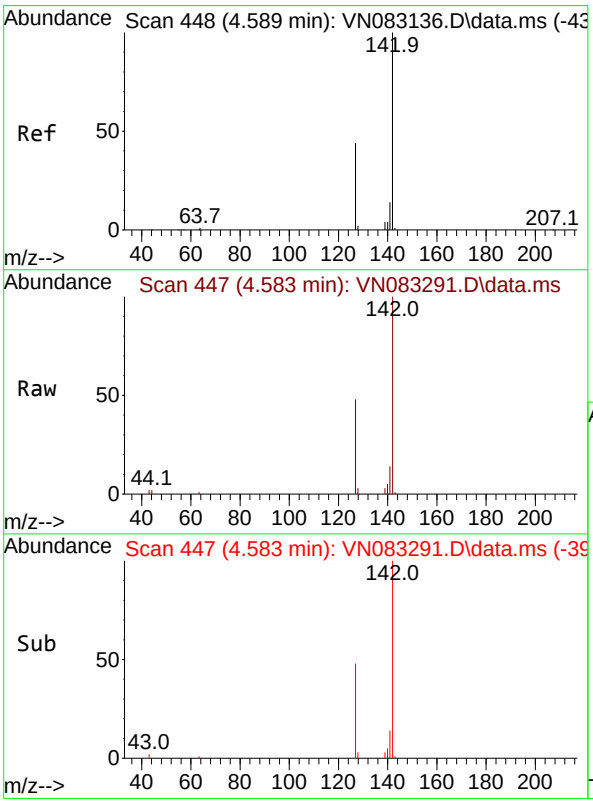
Ion	Ratio	Lower	Upper
101	100		
85	46.0	38.3	57.5
151	71.8	59.3	88.9

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

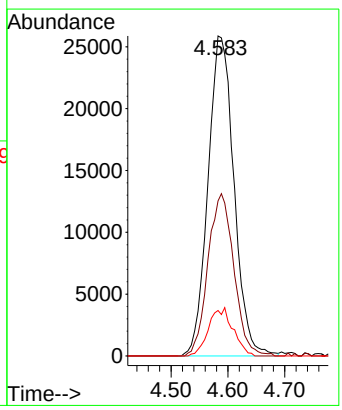


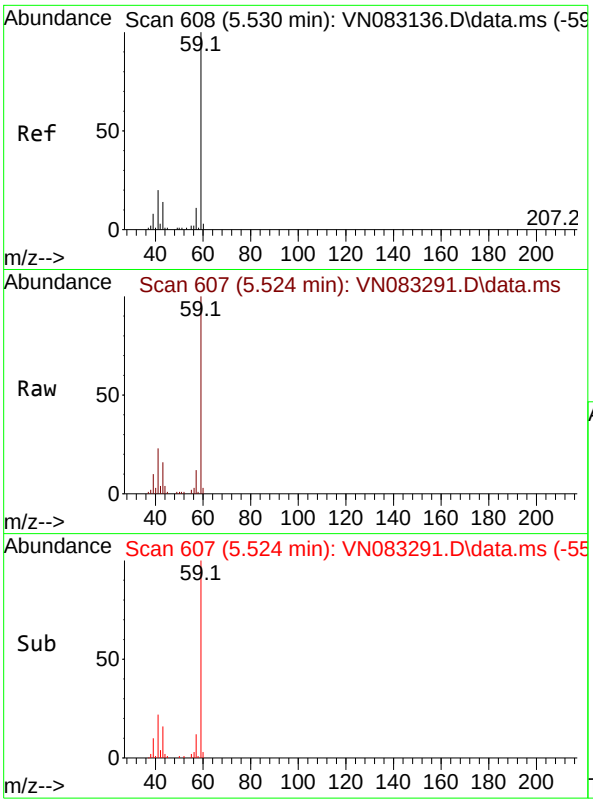


#10
Methyl Iodide
Concen: 39.245 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:142 Resp: 82185

Ion	Ratio	Lower	Upper
142	100		
127	48.5	37.5	56.3
141	14.2	13.1	19.7

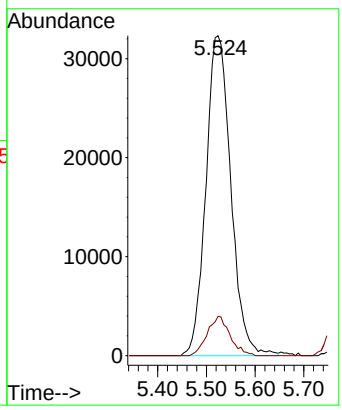




#11
Tert butyl alcohol
Concen: 263.289 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 59 Resp: 11491

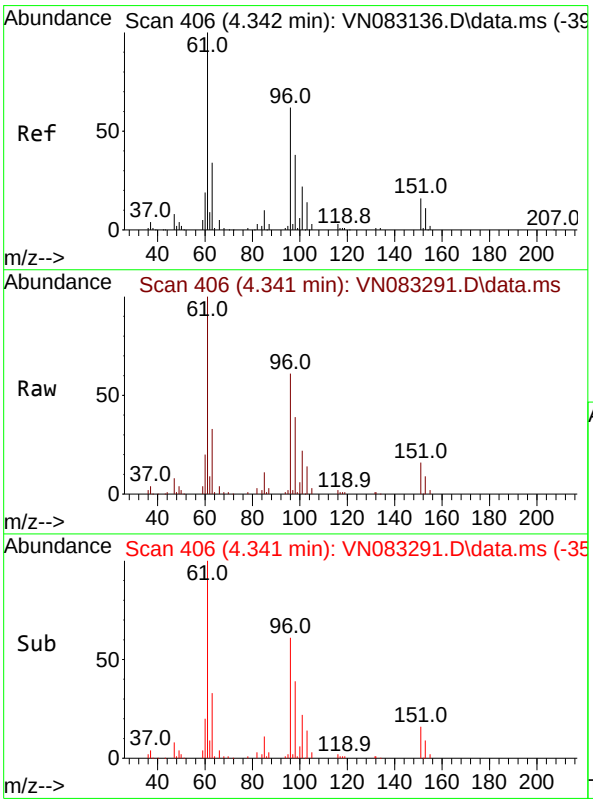
Ion	Ratio	Lower	Upper
59	100		
57	11.2	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

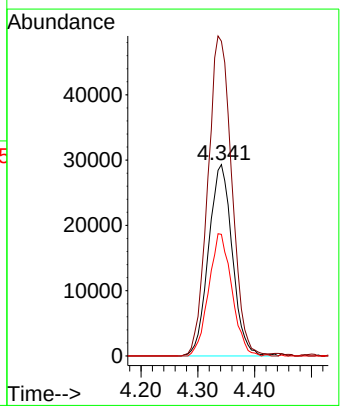
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

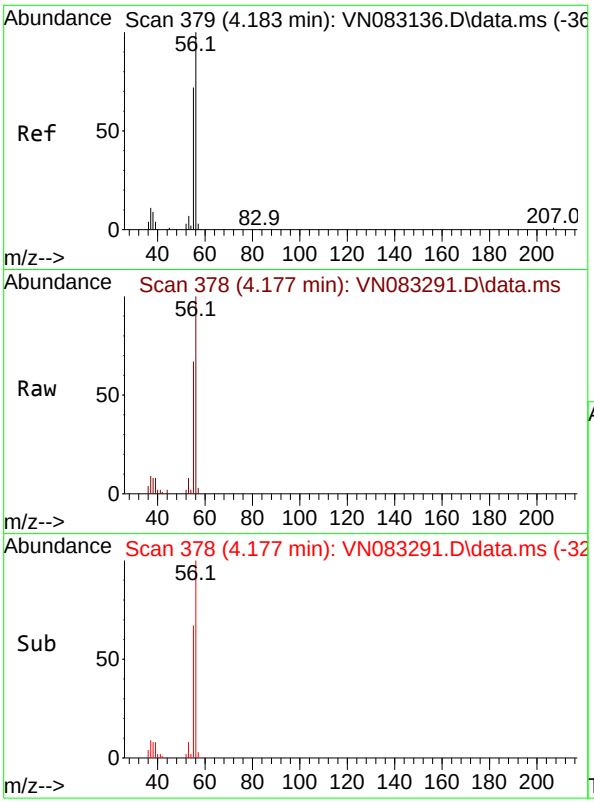


#12
1,1-Dichloroethene
Concen: 52.011 ug/l
RT: 4.341 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 96 Resp: 85068

Ion	Ratio	Lower	Upper
96	100		
61	164.4	149.7	224.5
98	63.5	50.1	75.1





#13
Acrolein
Concen: 234.553 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

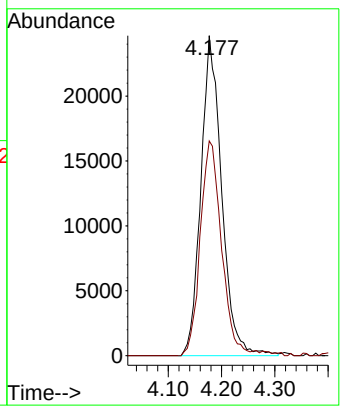
Tgt Ion: 56 Resp: 6671

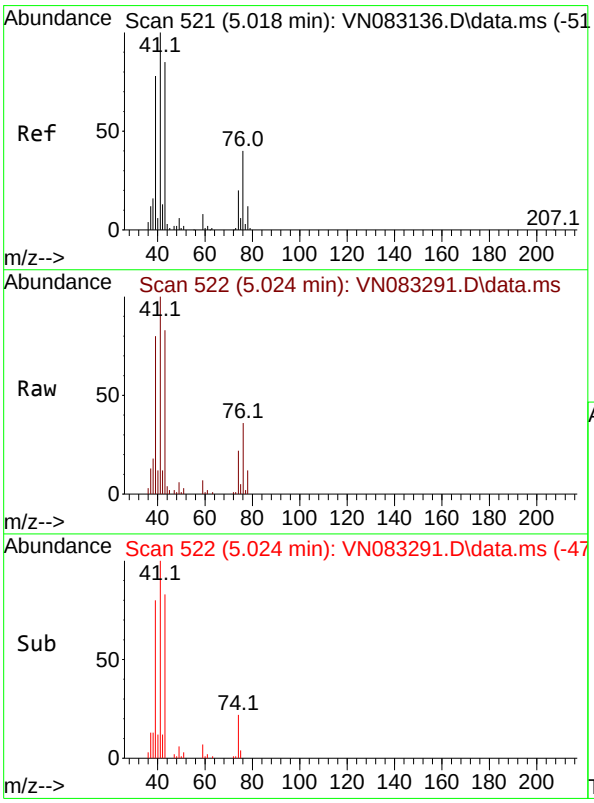
Ion	Ratio	Lower	Upper
56	100		
55	68.1	56.4	84.6

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

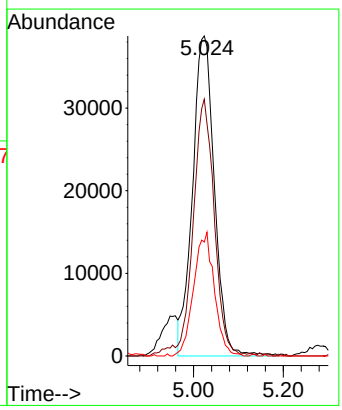


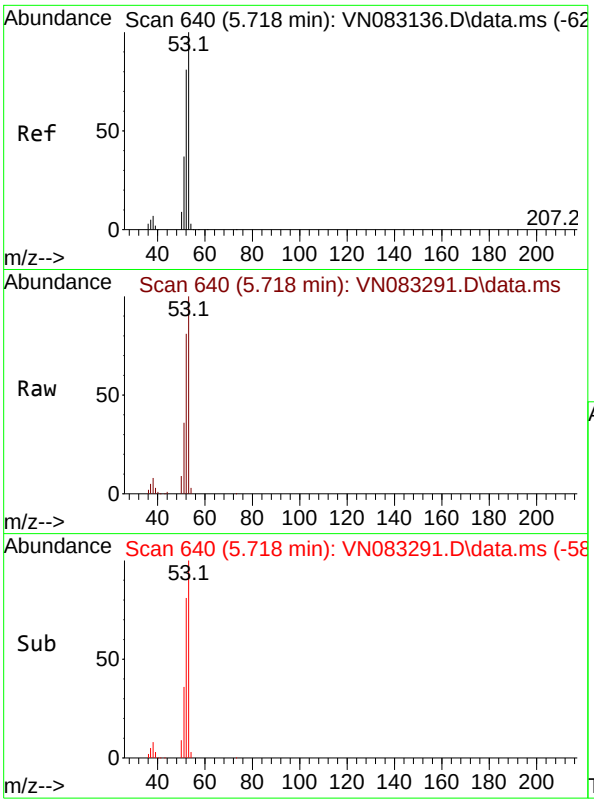


#14
Allyl chloride
Concen: 42.486 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 41 Resp: 131317

Ion	Ratio	Lower	Upper
41	100		
39	77.8	67.8	101.6
76	36.4	25.8	38.8

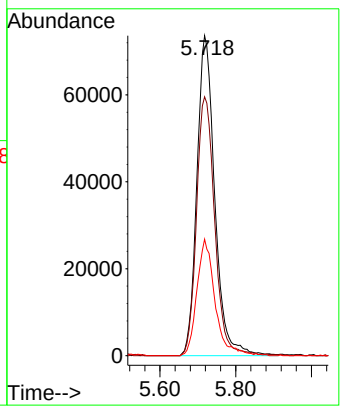




#15
Acrylonitrile
Concen: 269.261 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 53 Resp: 24169

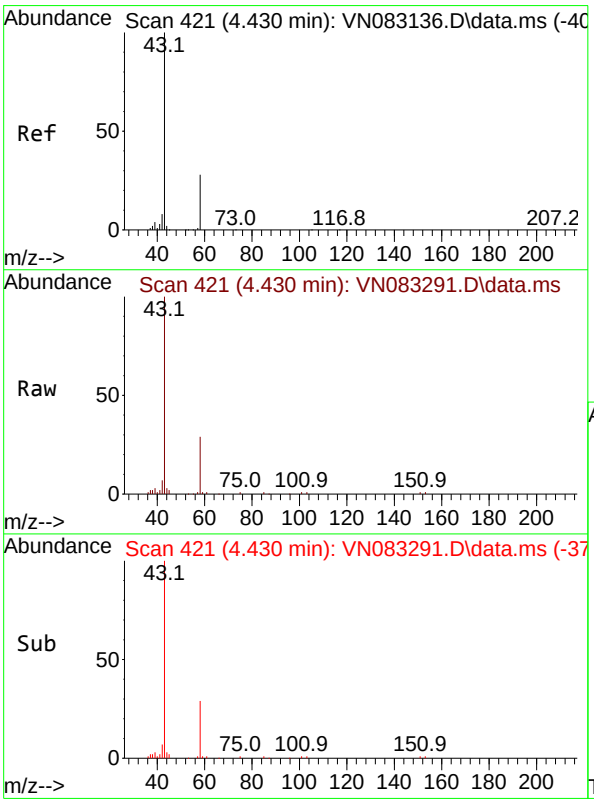
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.6	100.0
51	37.0	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

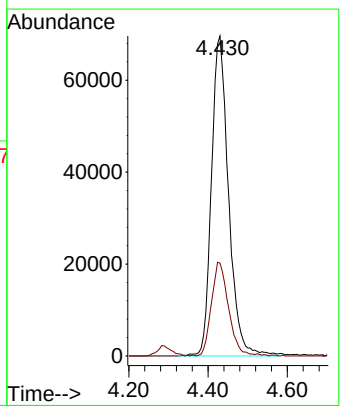
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

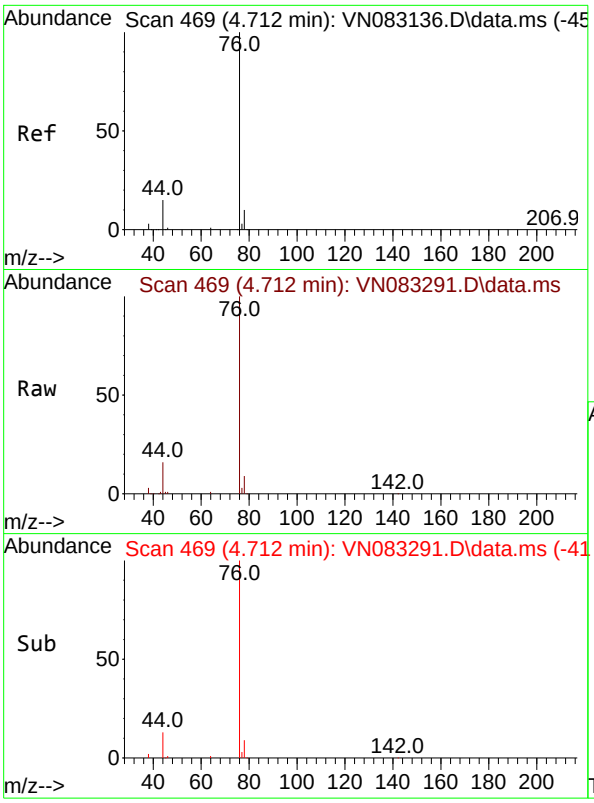


#16
Acetone
Concen: 253.705 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 43 Resp: 208489

Ion	Ratio	Lower	Upper
43	100		
58	29.0	21.8	32.6

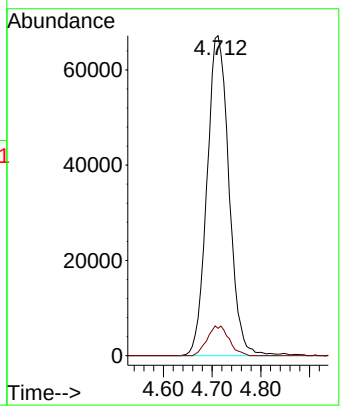




#17
Carbon Disulfide
Concen: 43.968 ug/l
RT: 4.712 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 76 Resp: 21041

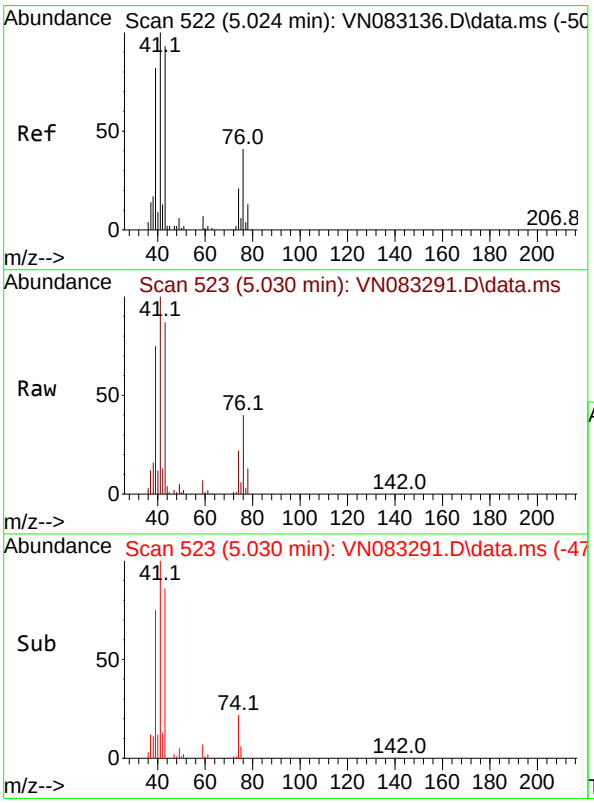
Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

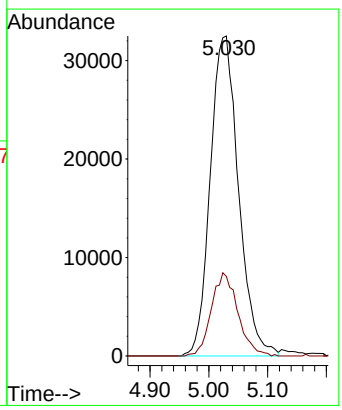
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

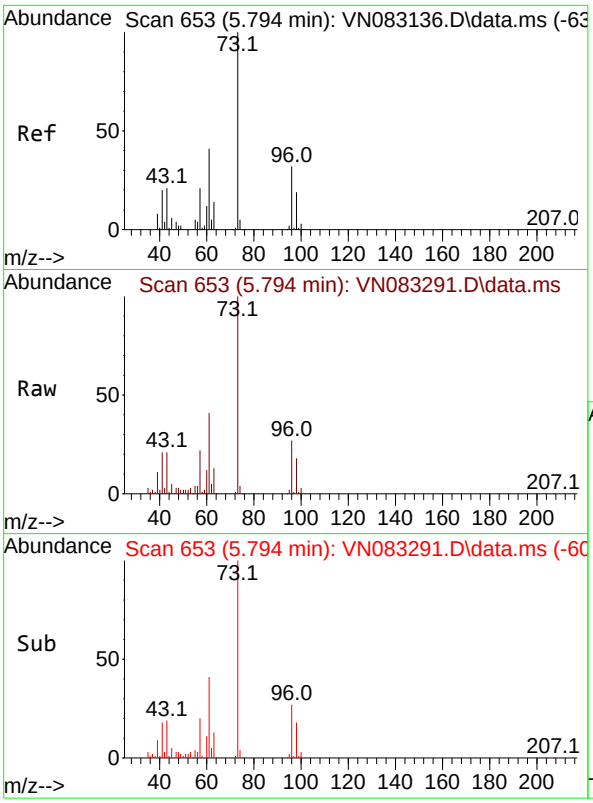


#18
Methyl Acetate
Concen: 44.370 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 43 Resp: 108637

Ion	Ratio	Lower	Upper
43	100		
74	24.3	16.3	24.5





#19
Methyl tert-butyl Ether
Concen: 55.073 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

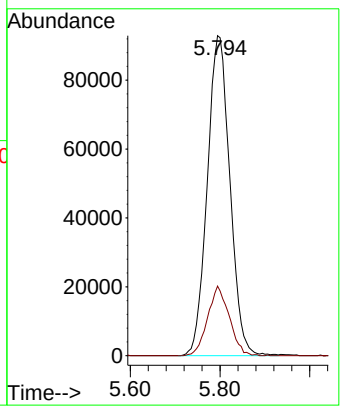
Tgt Ion: 73 Resp: 32512

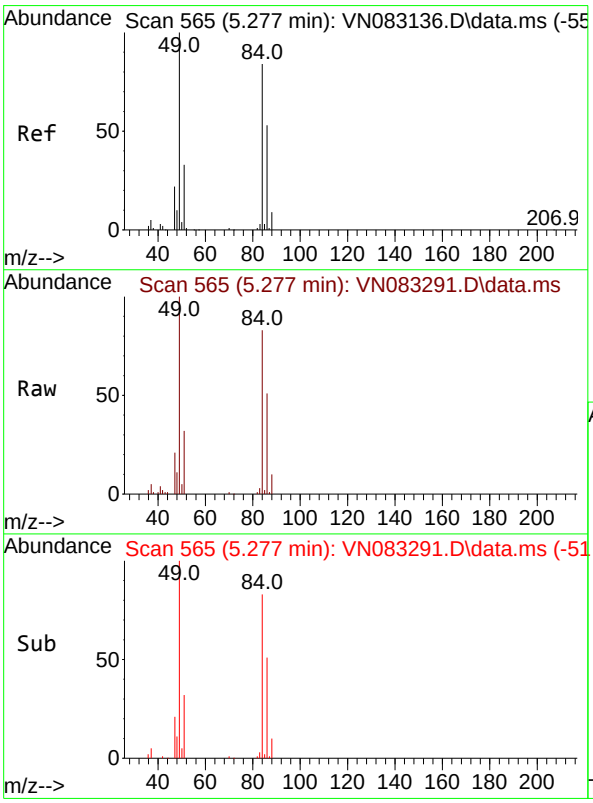
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.9	26.9

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

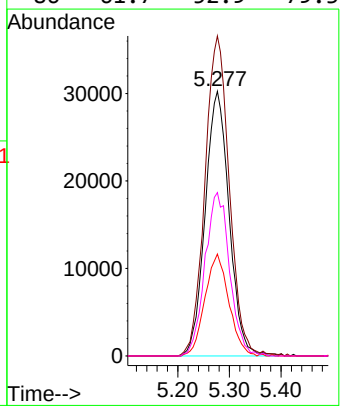


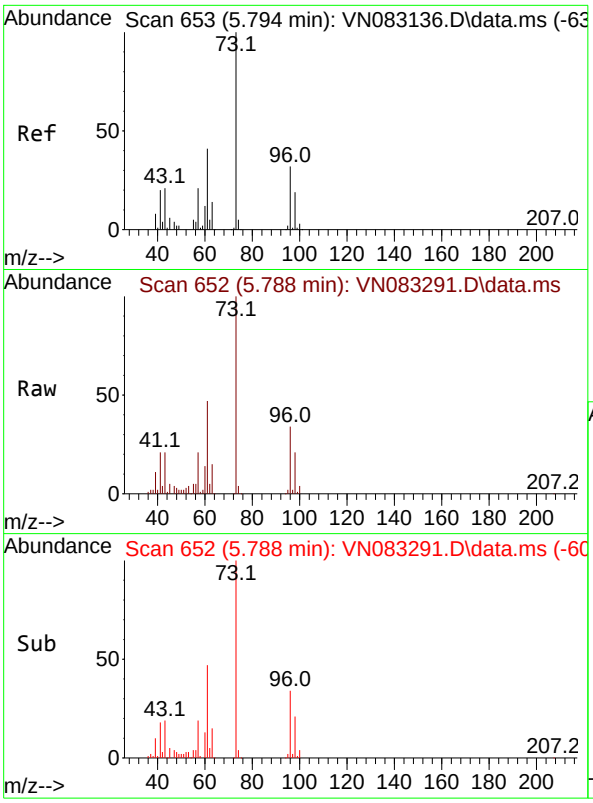


#20
Methylene Chloride
Concen: 51.543 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 84 Resp: 97482

Ion	Ratio	Lower	Upper
84	100		
49	120.9	119.6	179.4
51	38.5	34.8	52.2
86	61.7	52.9	79.3





#21
trans-1,2-Dichloroethene
Concen: 51.683 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

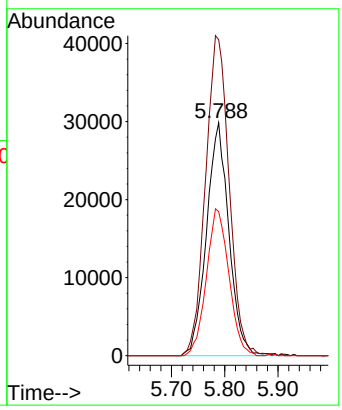
Tgt Ion: 96 Resp: 8736

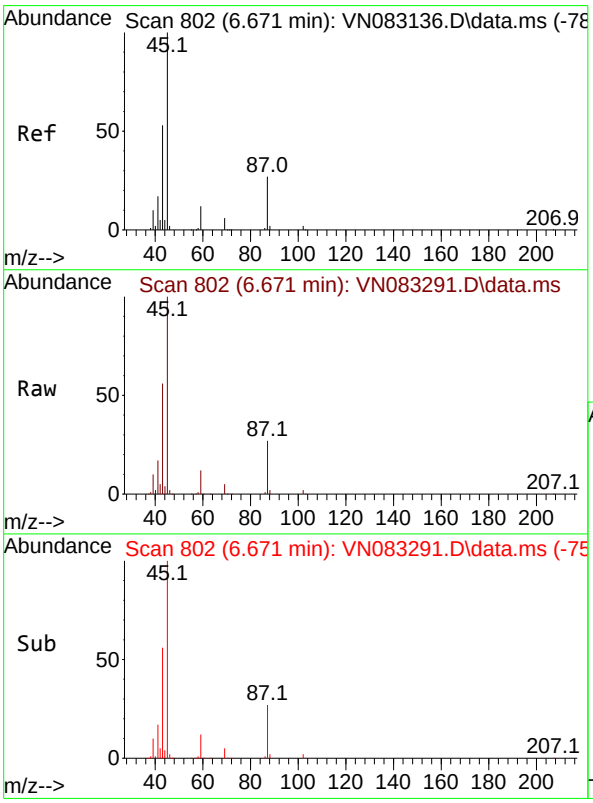
Ion	Ratio	Lower	Upper
96	100		
61	135.6	123.4	185.2
98	61.8	49.3	73.9

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
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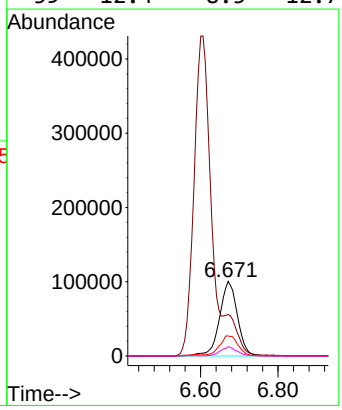


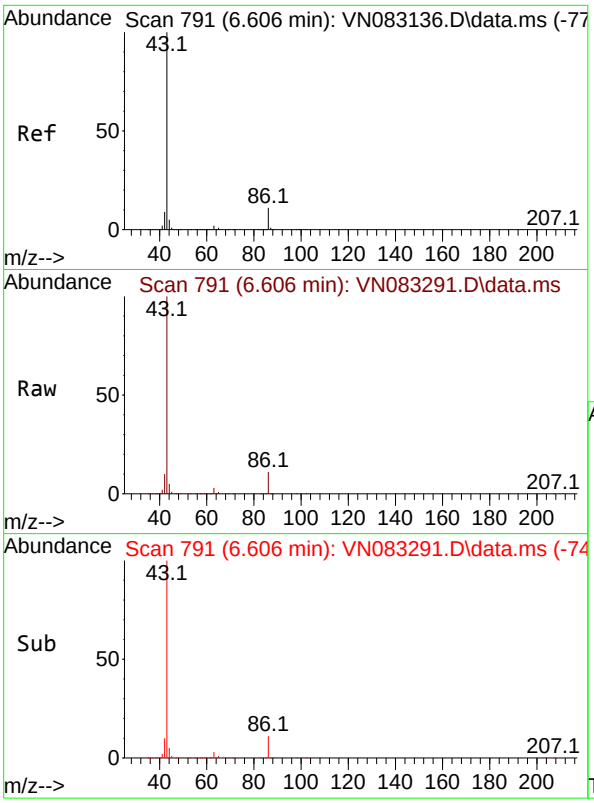


#22
Diisopropyl ether
Concen: 55.402 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 45 Resp: 321877

Ion	Ratio	Lower	Upper
45	100		
43	54.8	44.0	66.0
87	26.8	19.7	29.5
59	12.4	8.5	12.7

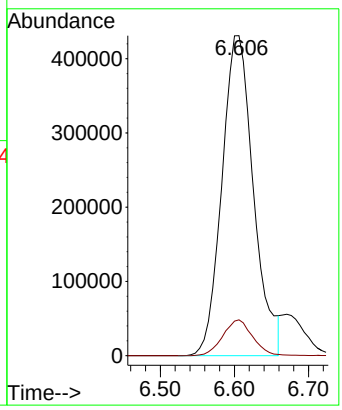




#23
Vinyl Acetate
Concen: 214.822 ug/l
RT: 6.606 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 43 Resp: 127926

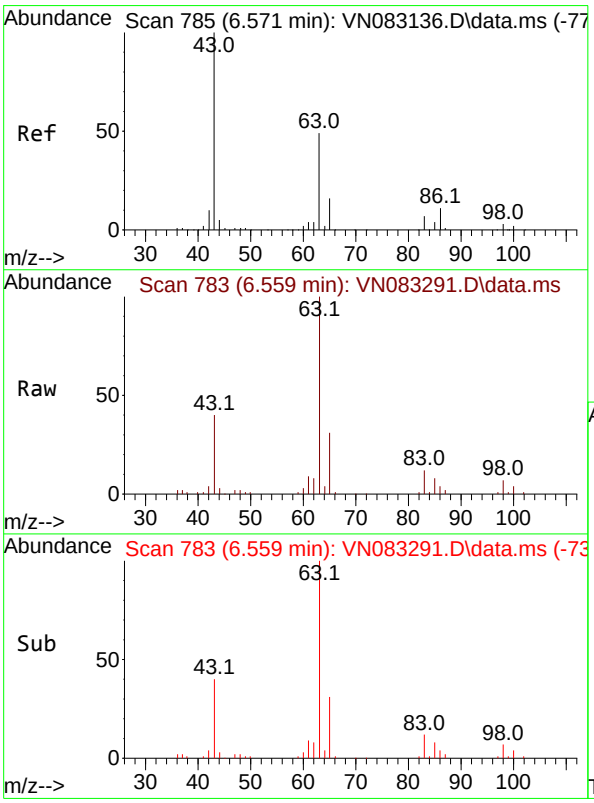
Ion	Ratio	Lower	Upper
43	100		
86	11.2	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

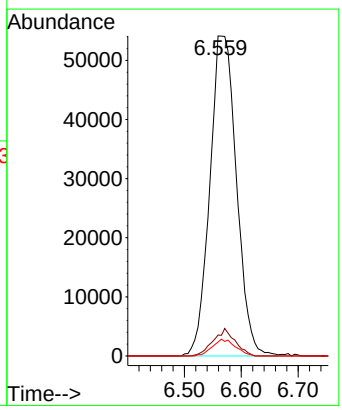
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

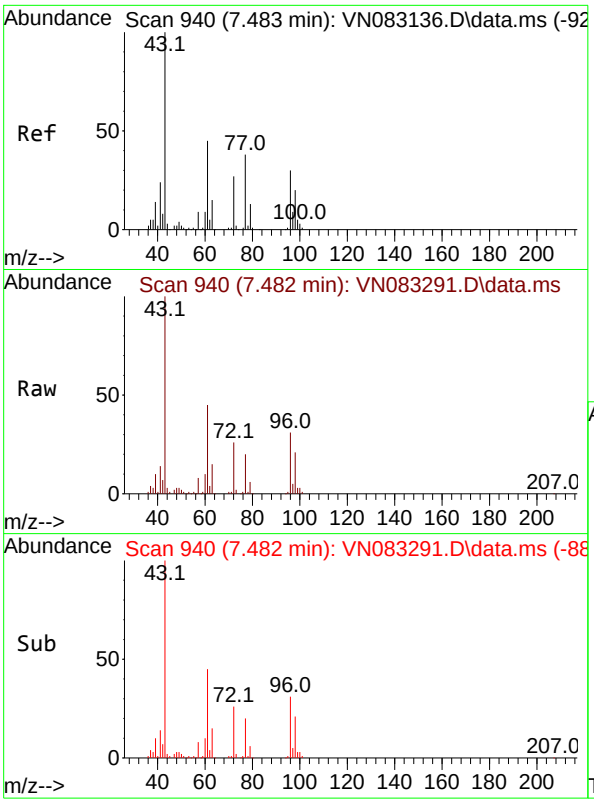


#24
1,1-Dichloroethane
Concen: 55.860 ug/l
RT: 6.559 min Scan# 783
Delta R.T. -0.012 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 63 Resp: 176895

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.9
100	4.3	2.0	6.0





#25
2-Butanone
Concen: 256.535 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

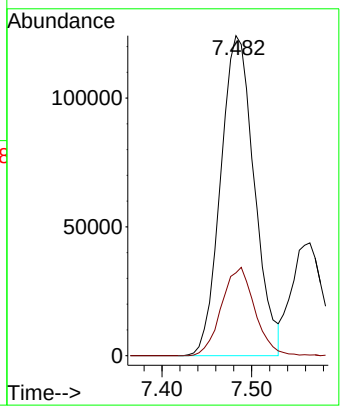
Tgt Ion: 43 Resp: 323699

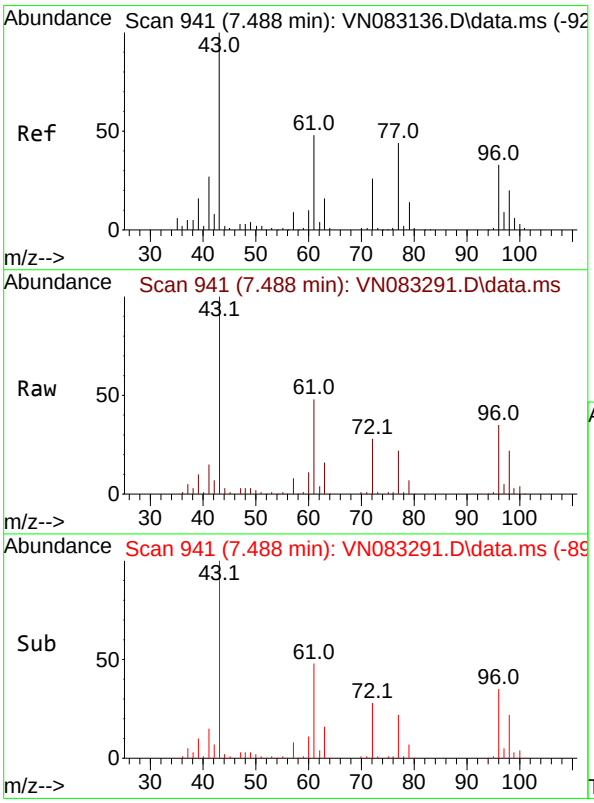
Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

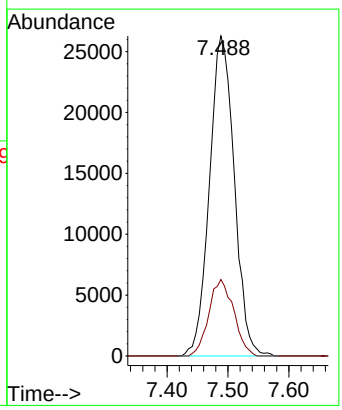


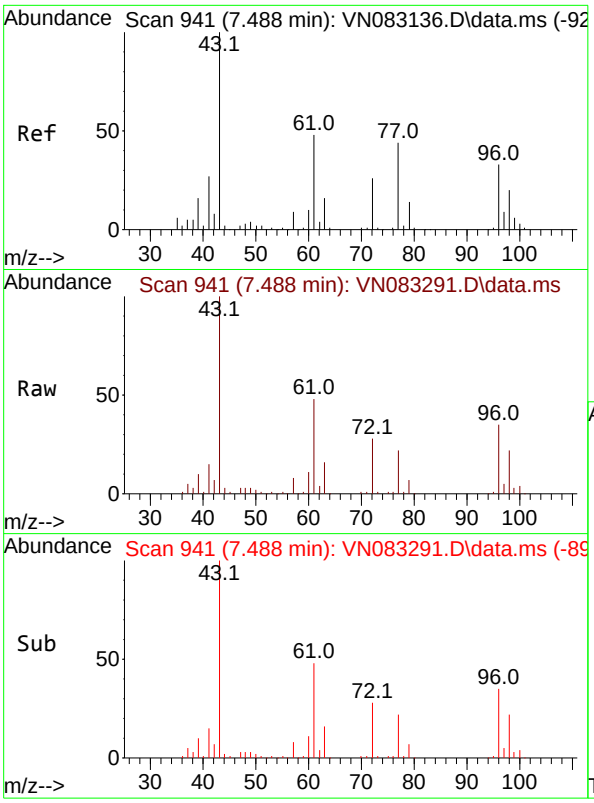


#26
2,2-Dichloropropane
Concen: 25.331 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 77 Resp: 74497

Ion	Ratio	Lower	Upper
77	100		
97	23.9	10.3	30.9





#27
cis-1,2-Dichloroethene
Concen: 53.030 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

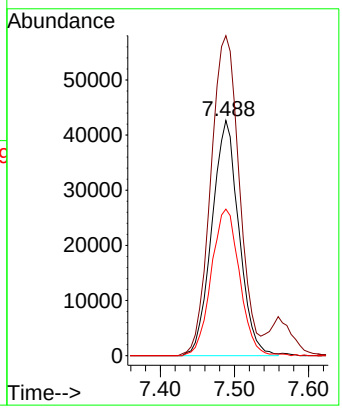
Tgt Ion: 96 Resp: 10817

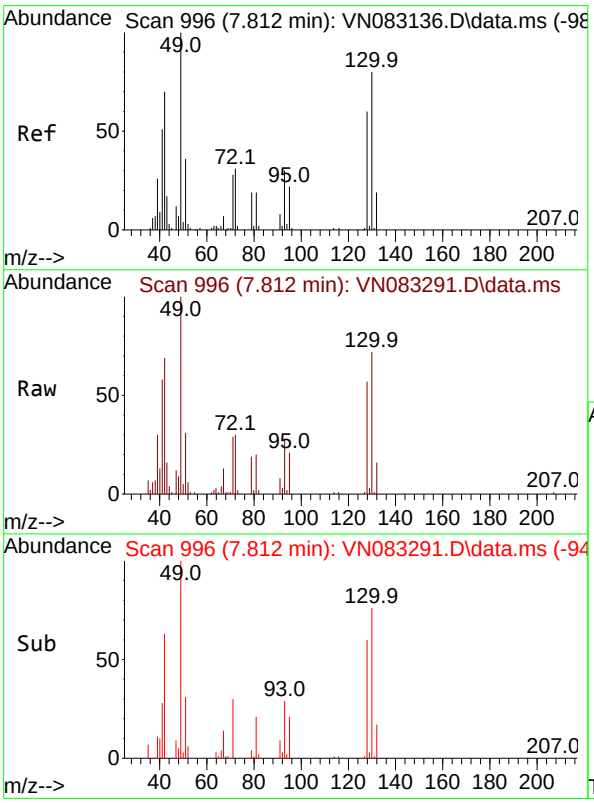
Ion	Ratio	Lower	Upper
96	100		
61	143.6	0.0	329.6
98	65.3	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

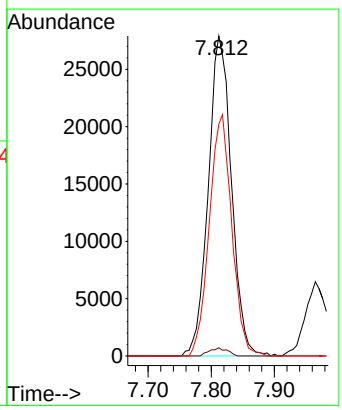


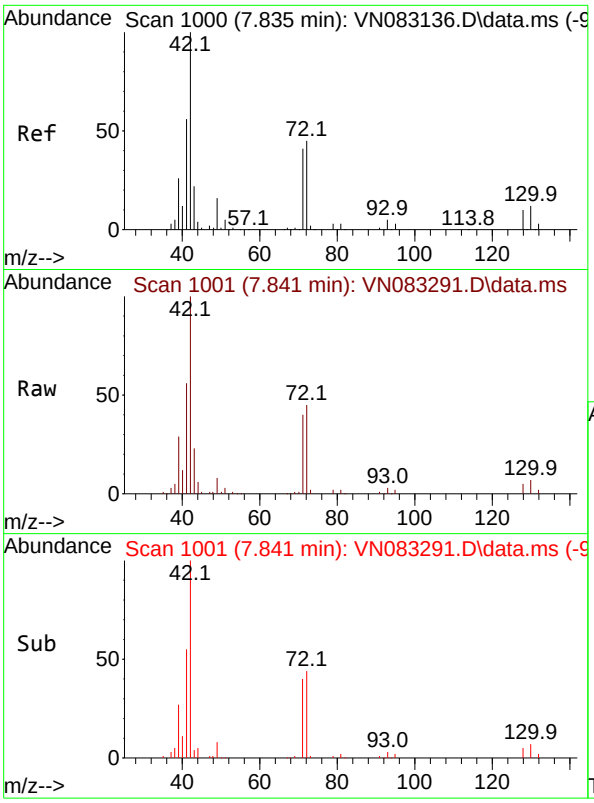


#28
Bromochloromethane
Concen: 54.989 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 49 Resp: 71165

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	73.2	50.5	75.7

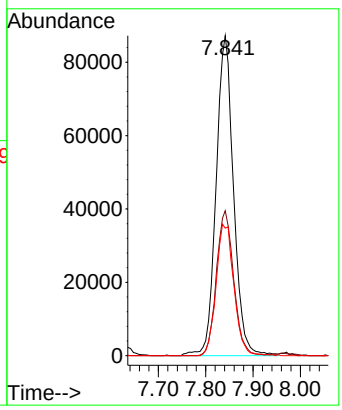




#29
Tetrahydrofuran
Concen: 273.745 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 42 Resp: 22328

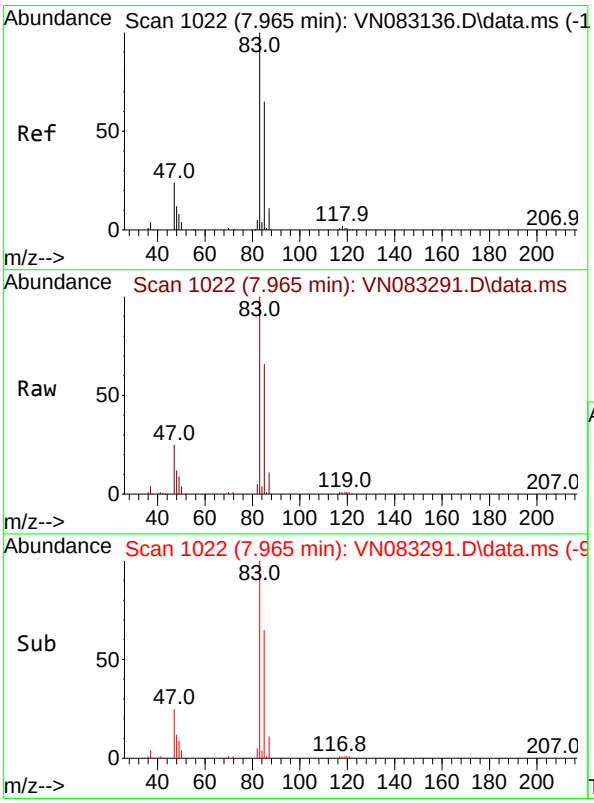
Ion	Ratio	Lower	Upper
42	100		
72	44.9	30.0	45.0
71	41.9	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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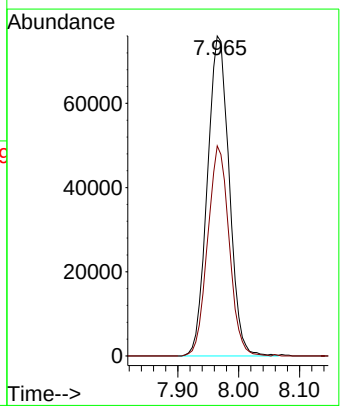
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

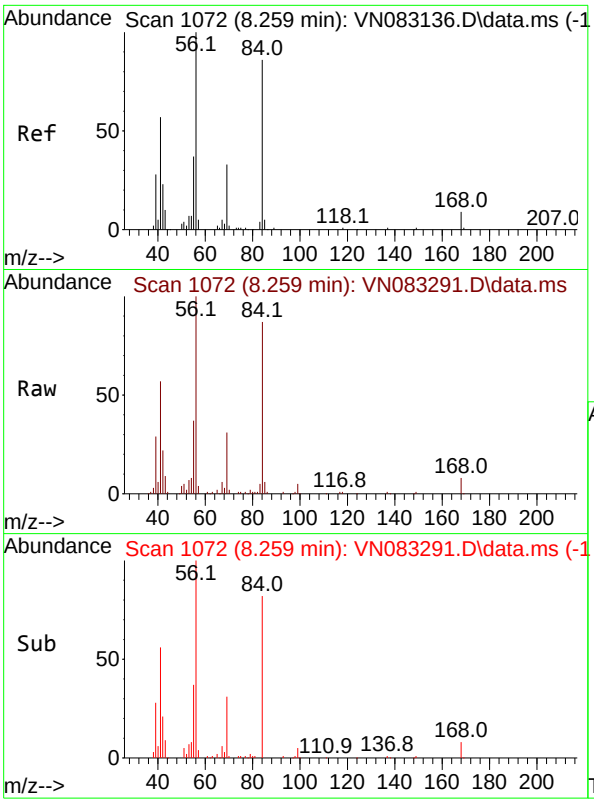


#30
Chloroform
Concen: 57.412 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 83 Resp: 188887

Ion	Ratio	Lower	Upper
83	100		
85	65.6	50.9	76.3





#31
Cyclohexane
Concen: 46.930 ug/l
RT: 8.259 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

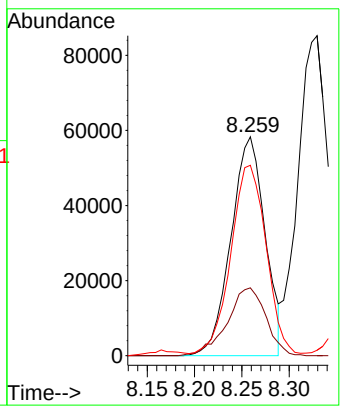
Tgt Ion: 56 Resp: 14606

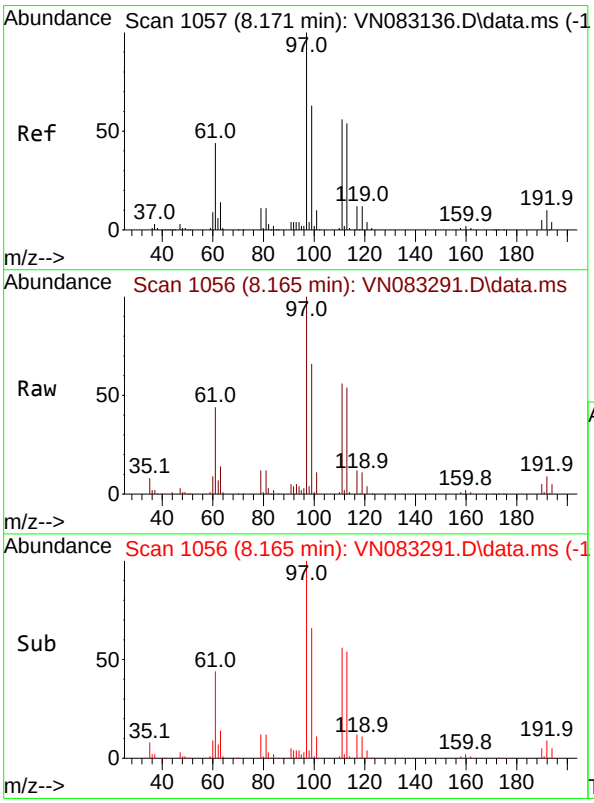
Ion	Ratio	Lower	Upper
56	100		
69	31.0	24.5	36.7
84	85.4	66.0	99.0

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
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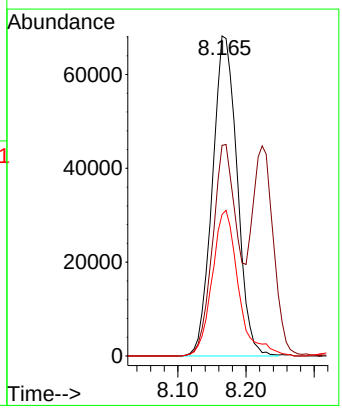


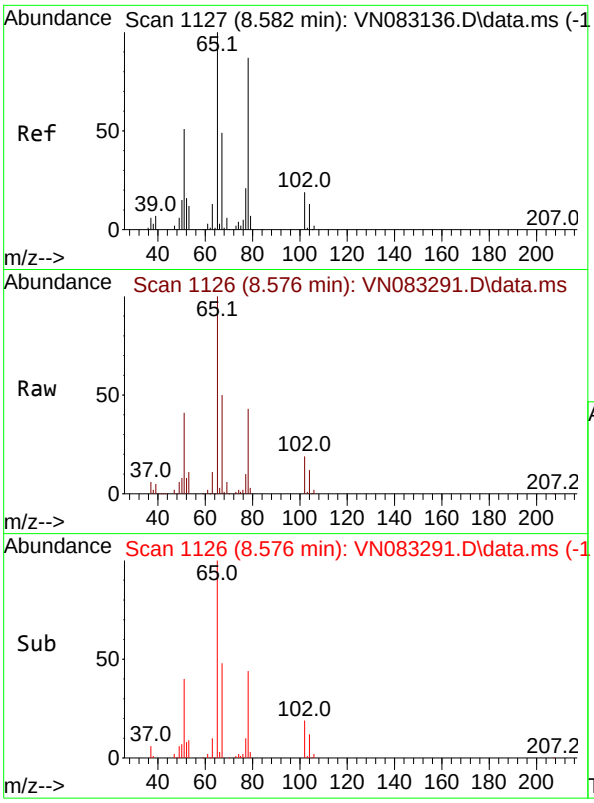


#32
1,1,1-Trichloroethane
Concen: 55.438 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 97 Resp: 172642

Ion	Ratio	Lower	Upper
97	100		
99	67.3	52.0	78.0
61	48.3	42.1	63.1

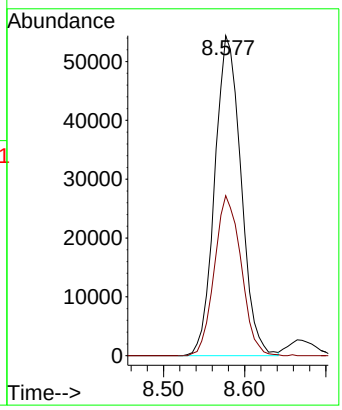




#33
1,2-Dichloroethane-d4
Concen: 58.267 ug/l
RT: 8.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 65 Resp: 12236

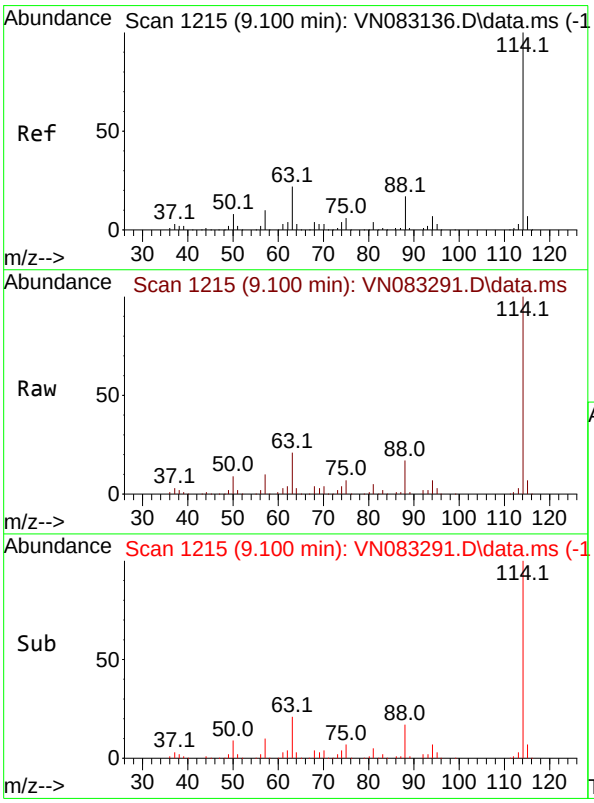
Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

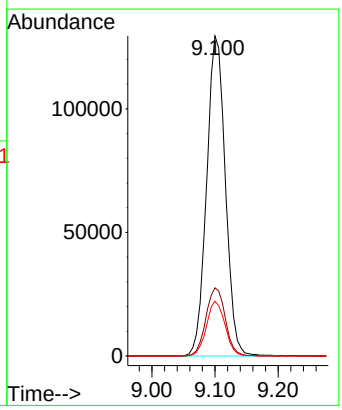
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

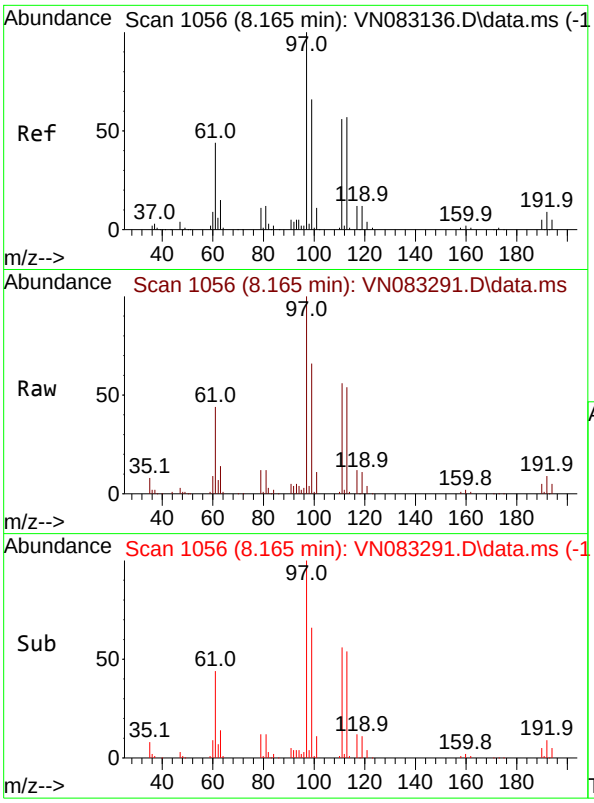


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:114 Resp: 267105

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	44.6
88	17.1	0.0	31.4

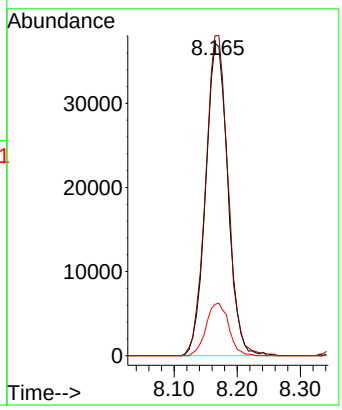




#35
Dibromofluoromethane
Concen: 54.534 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:113 Resp: 9092

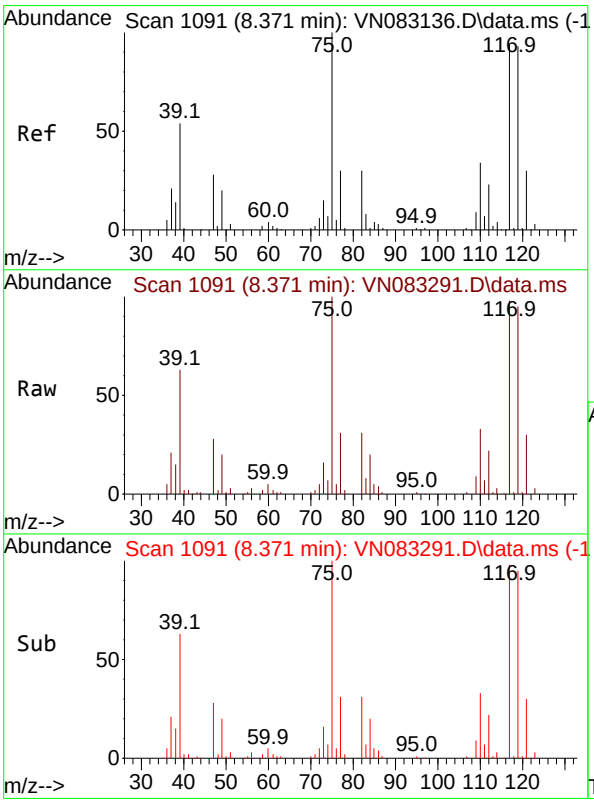
Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.4	123.6
192	17.0	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

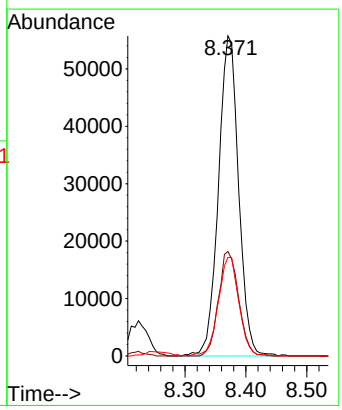
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

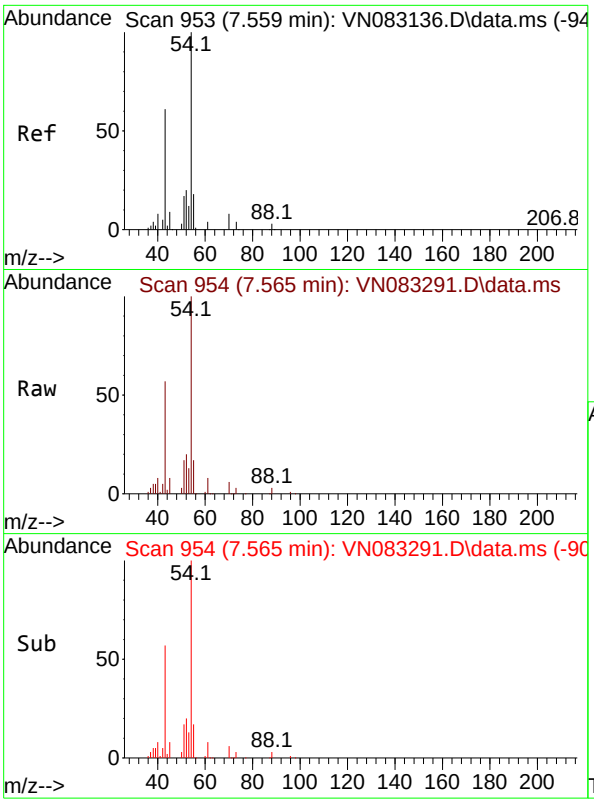


#36
1,1-Dichloropropene
Concen: 50.786 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 75 Resp: 128085

Ion	Ratio	Lower	Upper
75	100		
110	32.7	16.3	48.9
77	31.7	24.6	37.0





#37
Ethyl Acetate
Concen: 39.628 ug/l
RT: 7.565 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

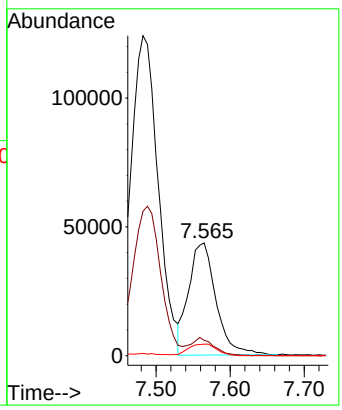
Tgt Ion: 43 Resp: 11190

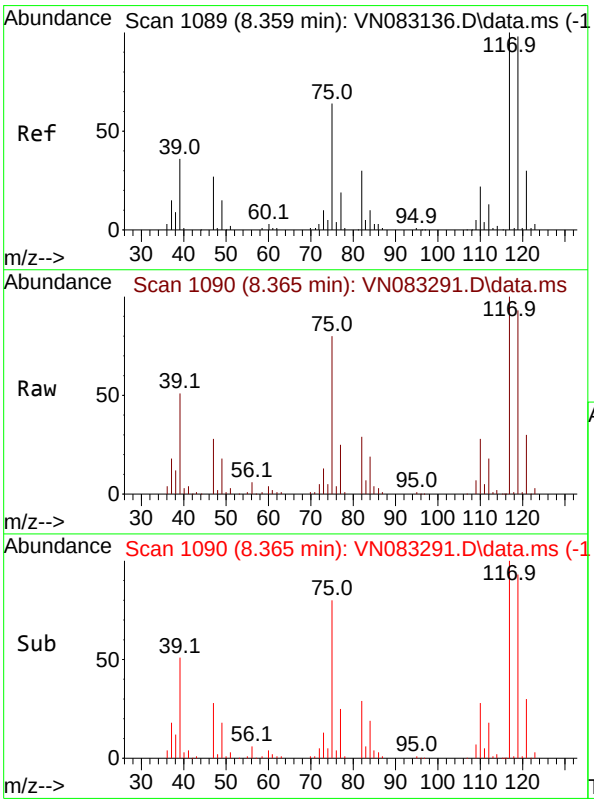
Ion	Ratio	Lower	Upper
43	100		
61	13.9	9.3	13.9
70	10.9	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

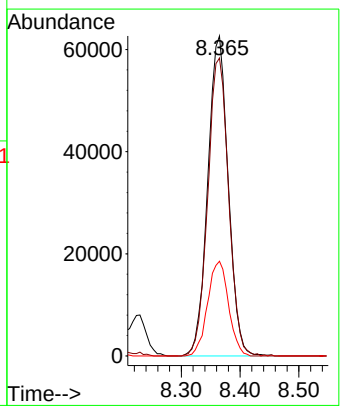


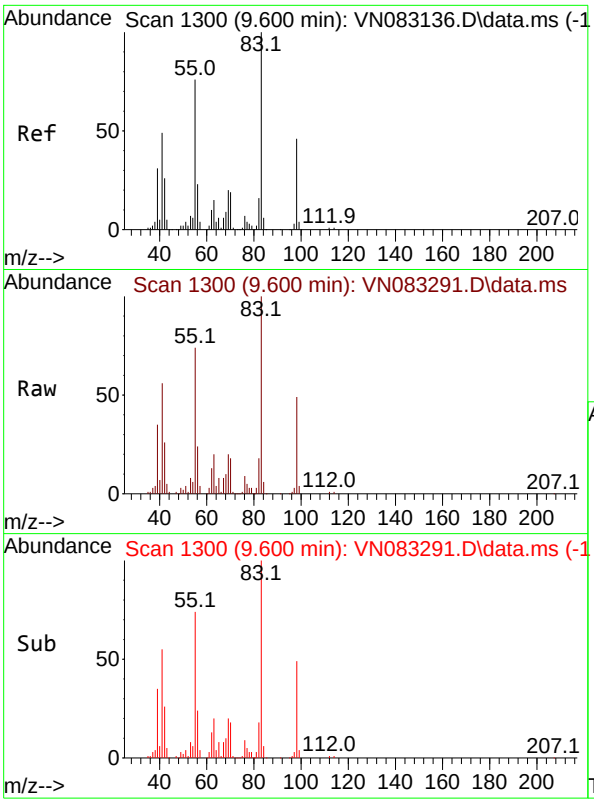


#38
Carbon Tetrachloride
Concen: 53.316 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:117 Resp: 151450

Ion	Ratio	Lower	Upper
117	100		
119	93.1	74.9	112.3
121	29.6	24.3	36.5





#39
Methylcyclohexane
Concen: 46.518 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

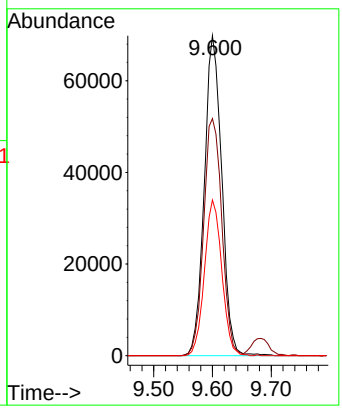
Tgt Ion: 83 Resp: 14409

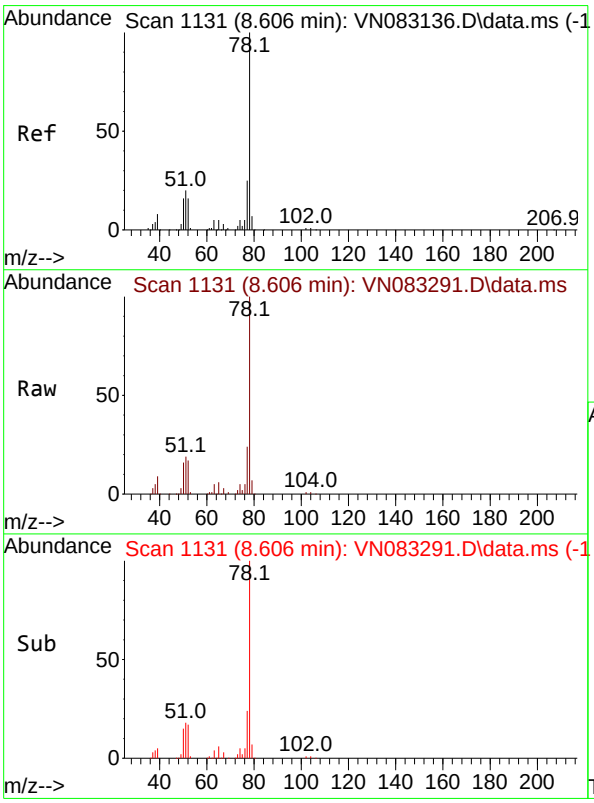
Ion	Ratio	Lower	Upper
83	100		
55	74.1	66.4	99.6
98	48.7	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

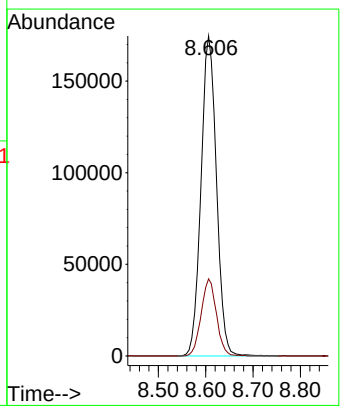


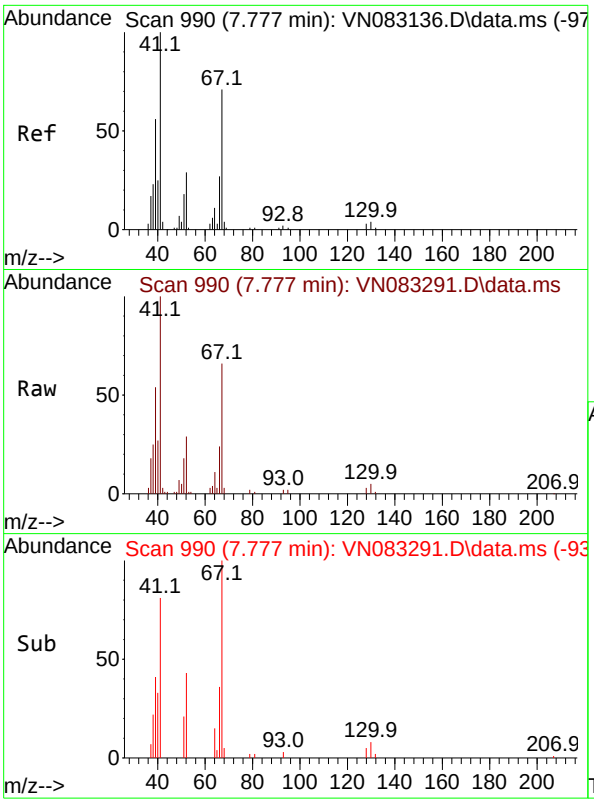


#40
Benzene
Concen: 52.663 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 78 Resp: 395669

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.4

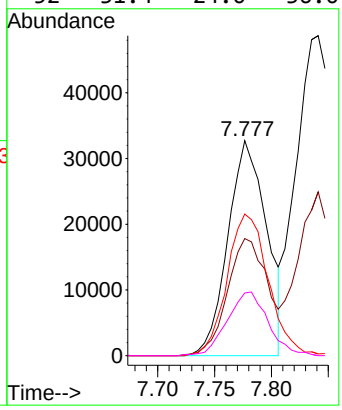




#41
Methacrylonitrile
Concen: 48.232 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 41 Resp: 7744

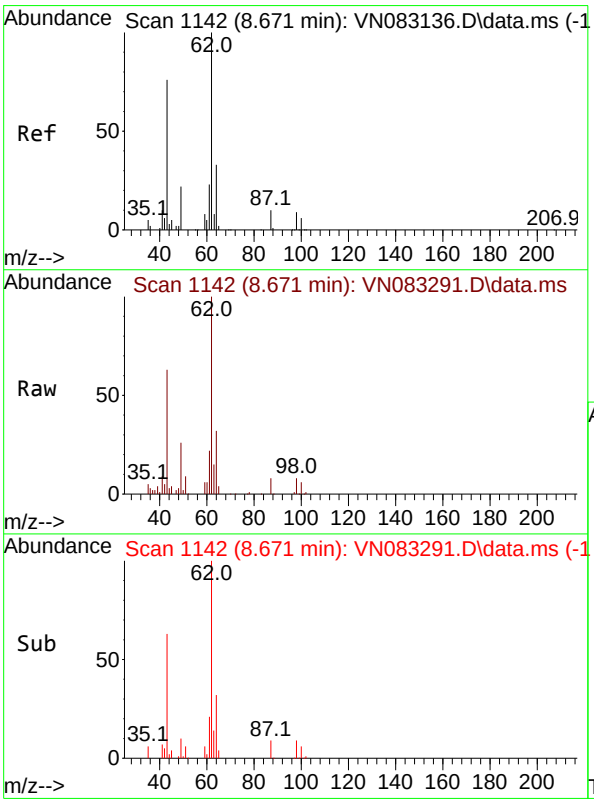
Ion	Ratio	Lower	Upper
41	100		
39	56.5	45.5	68.3
67	70.9	50.5	75.7
52	31.4	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

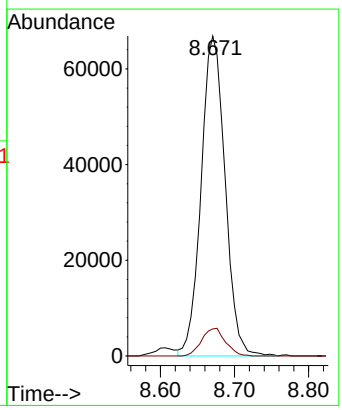
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

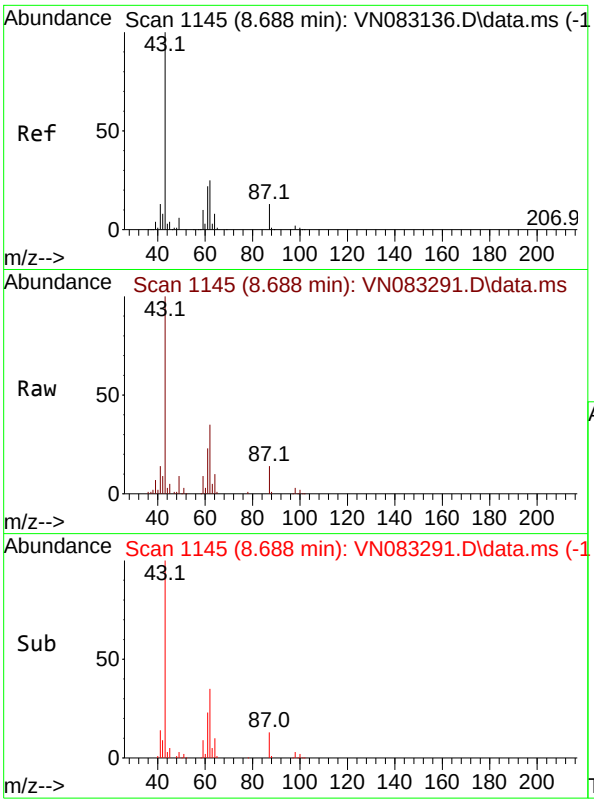


#42
1,2-Dichloroethane
Concen: 54.823 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 62 Resp: 150044

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	15.8





#43
Isopropyl Acetate
Concen: 45.145 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

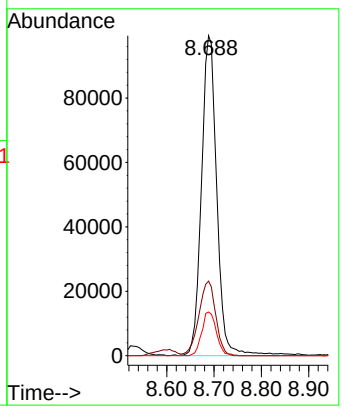
Tgt Ion: 43 Resp: 22261

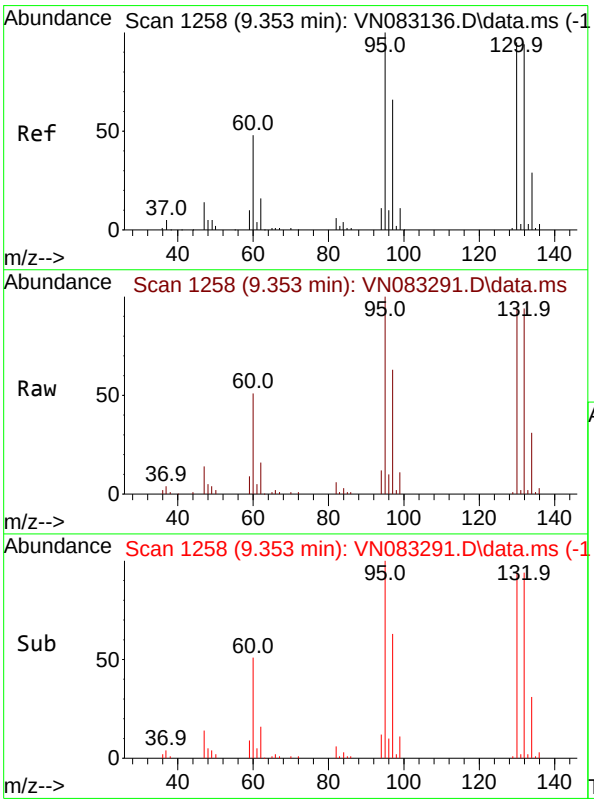
Ion	Ratio	Lower	Upper
43	100		
61	25.7	17.8	26.6
87	13.0	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

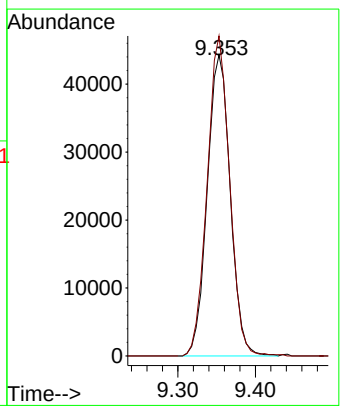


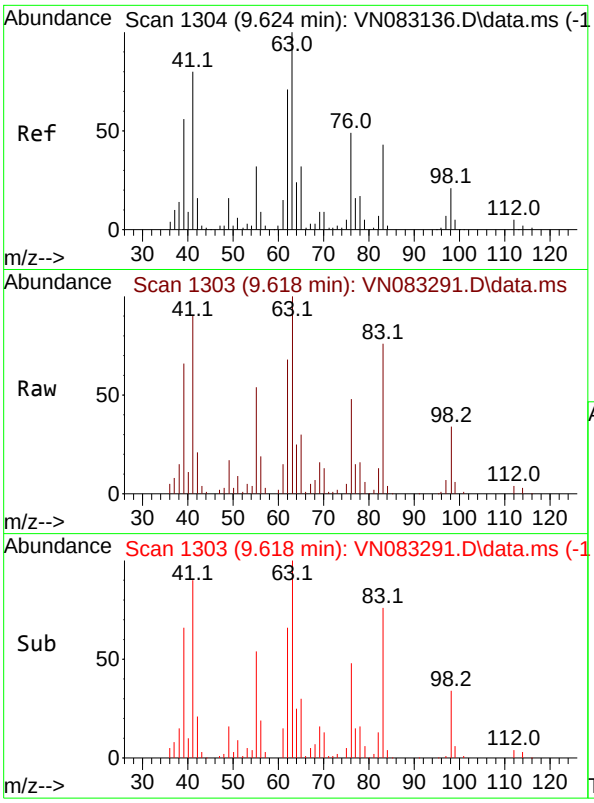


#44
Trichloroethene
Concen: 51.061 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:130 Resp: 91313

Ion	Ratio	Lower	Upper
130	100		
95	106.3	0.0	197.8

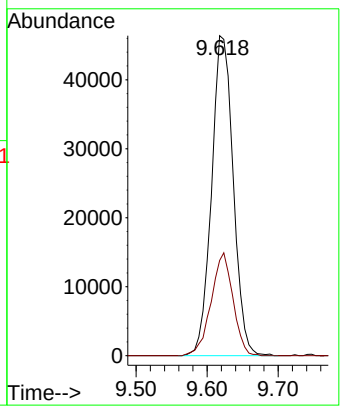




#45
1,2-Dichloropropane
Concen: 55.044 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 63 Resp: 9816

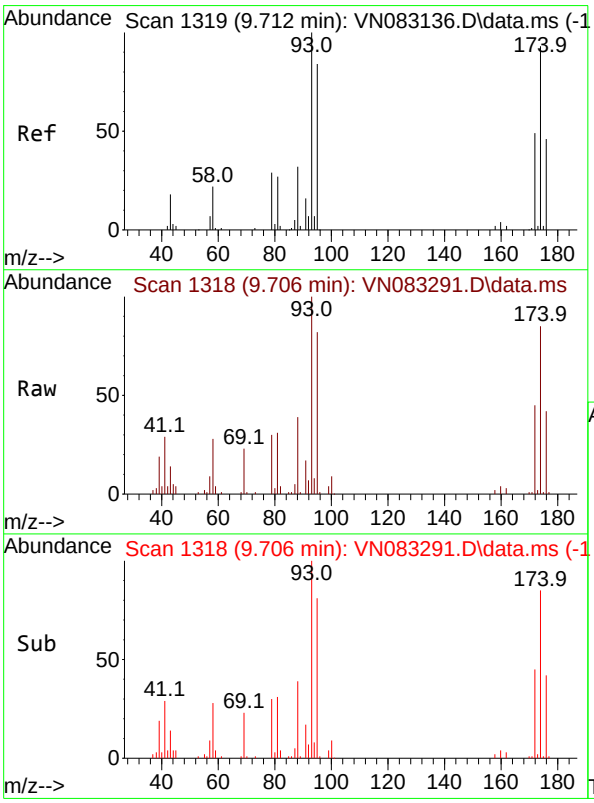
Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

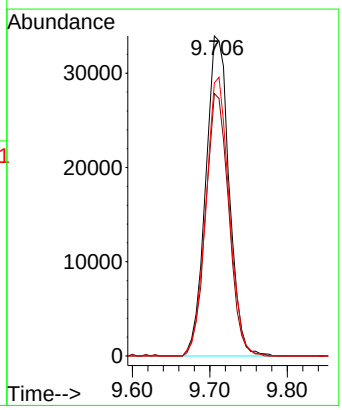
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

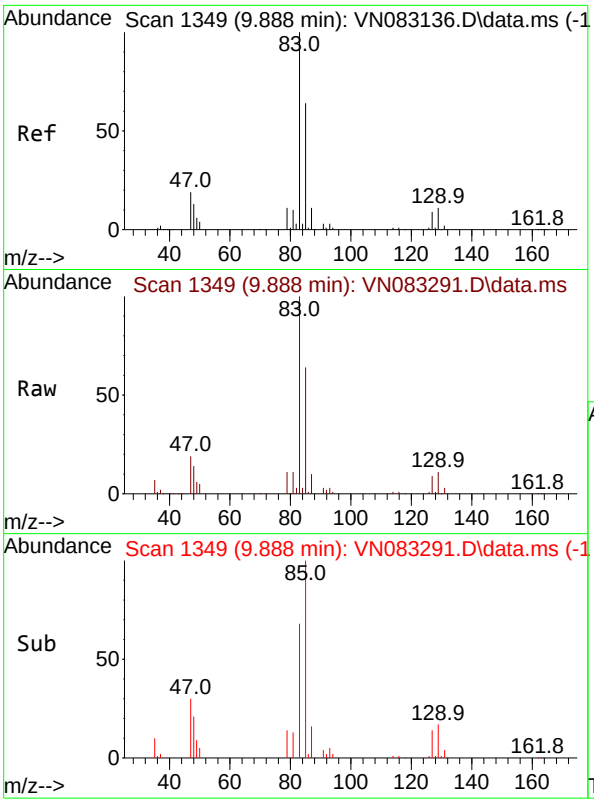


#46
Dibromomethane
Concen: 55.850 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 93 Resp: 71294

Ion	Ratio	Lower	Upper
93	100		
95	81.0	65.8	98.6
174	86.4	71.7	107.5

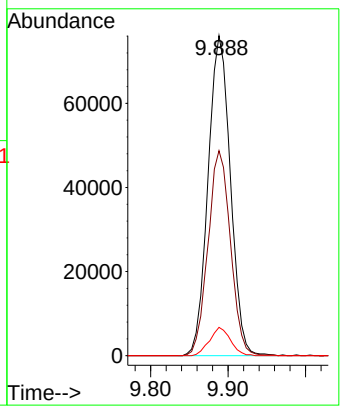




#47
Bromodichloromethane
Concen: 53.153 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 83 Resp: 15234

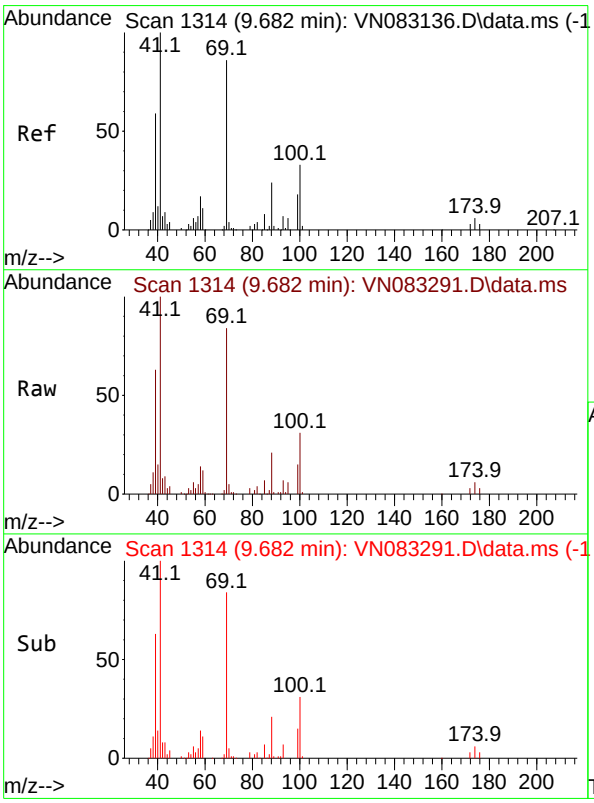
Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.1	76.7
127	8.9	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

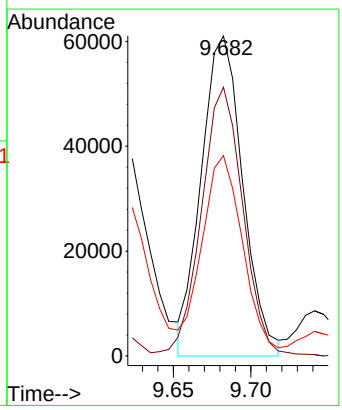
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

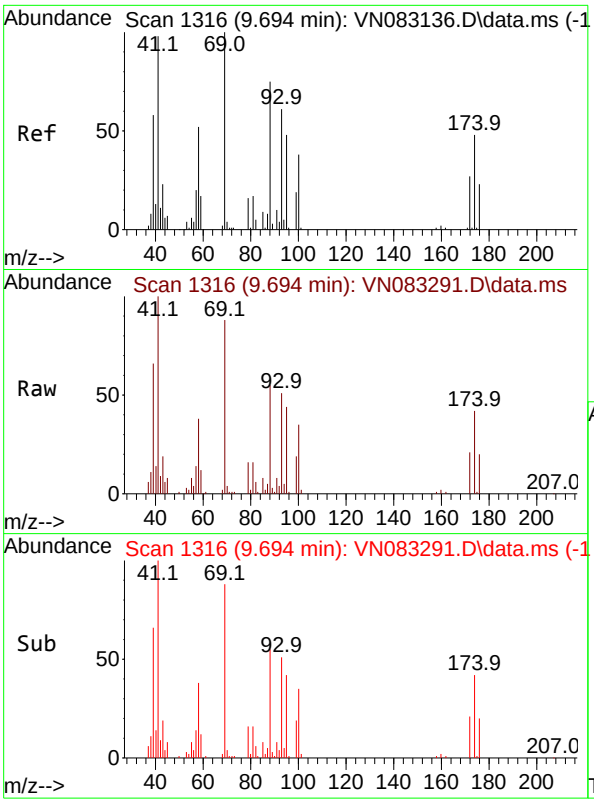


#48
Methyl methacrylate
Concen: 48.769 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 41 Resp: 113855

Ion	Ratio	Lower	Upper
41	100		
69	83.9	56.3	84.5
39	61.9	50.3	75.5





#49
1,4-Dioxane
Concen: 936.076 ug/l
RT: 9.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

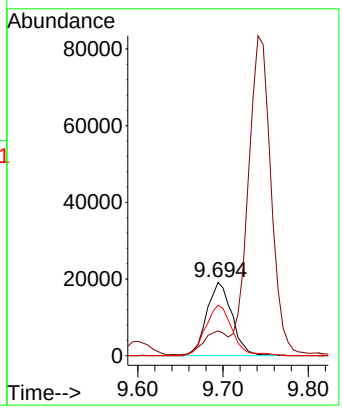
Tgt Ion: 88 Resp: 3942

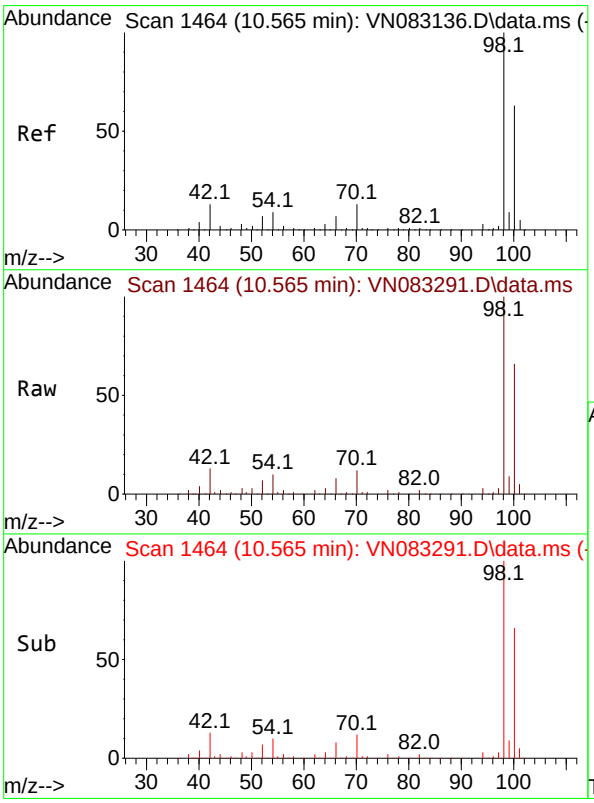
Ion	Ratio	Lower	Upper
88	100		
43	31.2	27.8	41.8
58	72.3	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

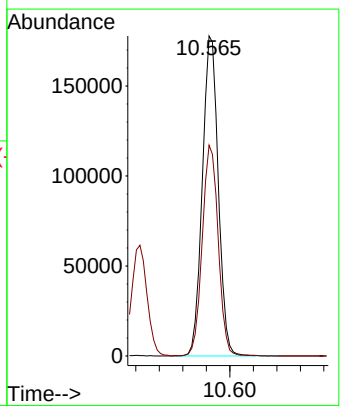


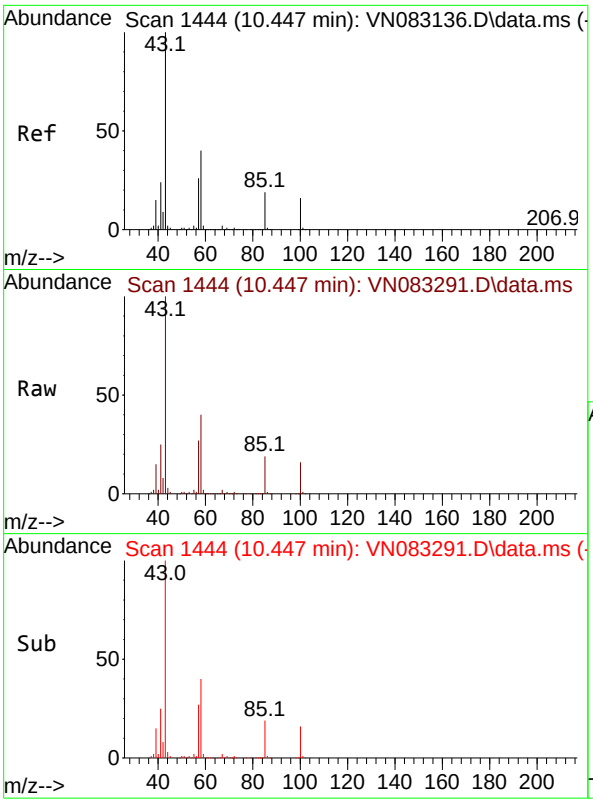


#50
Toluene-d8
Concen: 53.572 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 98 Resp: 333167

Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.5	77.3

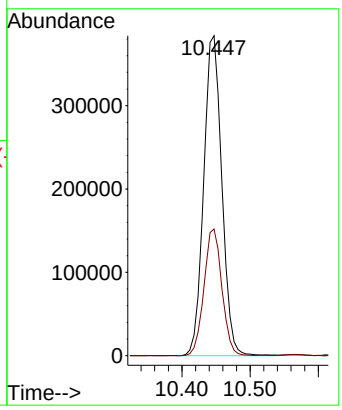




#51
4-Methyl-2-Pentanone
Concen: 266.212 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 43 Resp: 71087

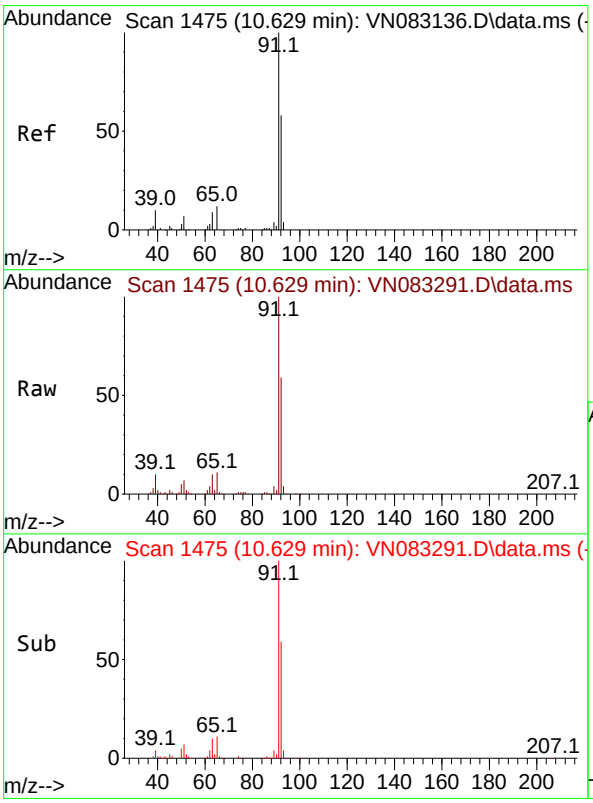
Ion	Ratio	Lower	Upper
43	100		
58	39.2	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

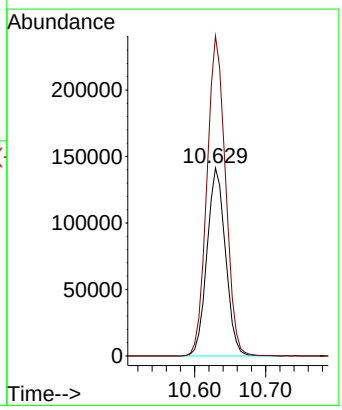
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

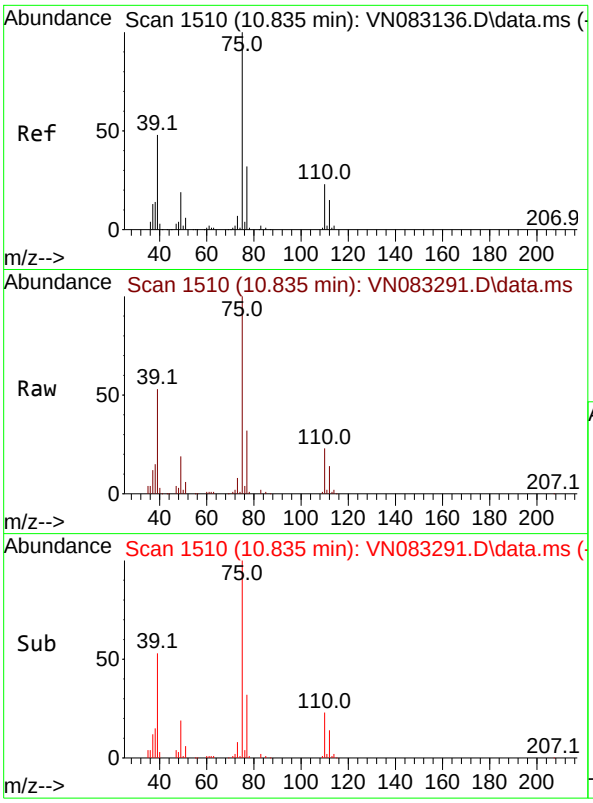


#52
Toluene
Concen: 53.845 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 92 Resp: 255610

Ion	Ratio	Lower	Upper
92	100		
91	170.9	139.4	209.0

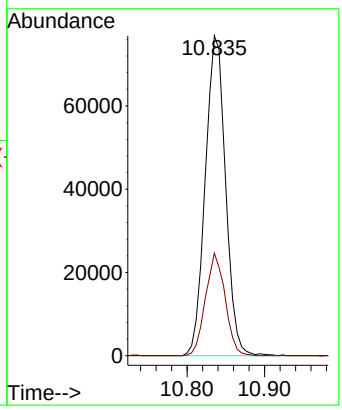




#53
t-1,3-Dichloropropene
Concen: 47.500 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 75 Resp: 13985

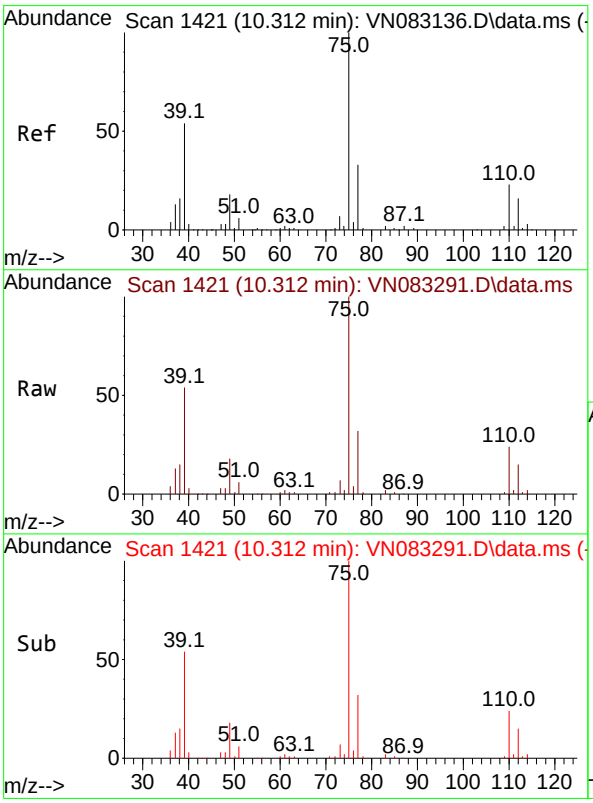
Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

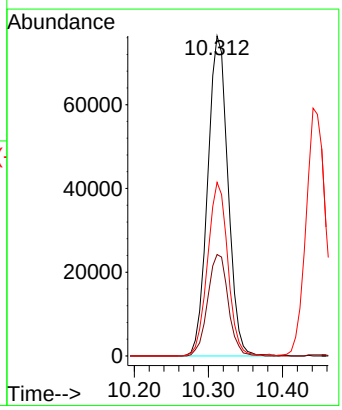
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

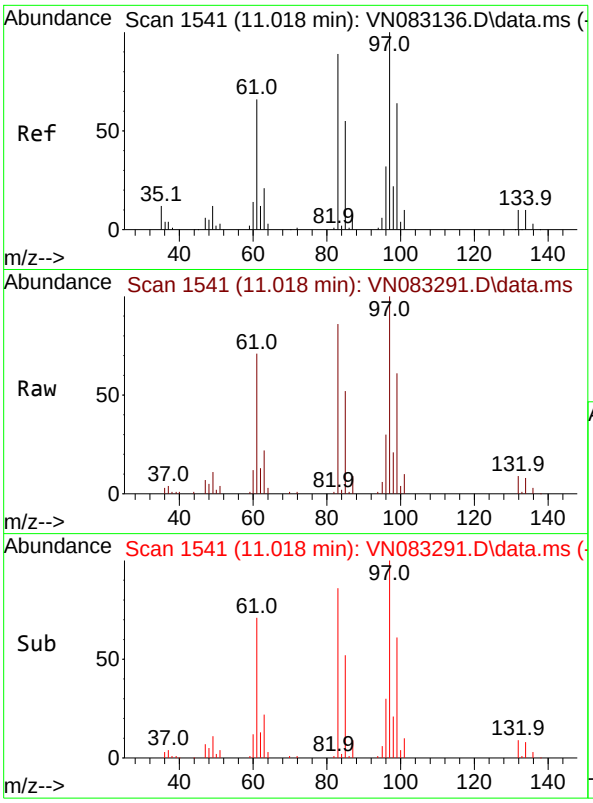


#54
cis-1,3-Dichloropropene
Concen: 46.395 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 75 Resp: 145290

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.3	36.5
39	54.2	50.5	75.7

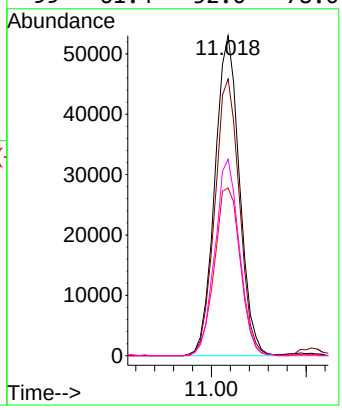




#55
1,1,2-Trichloroethane
Concen: 56.379 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 97 Resp: 9591

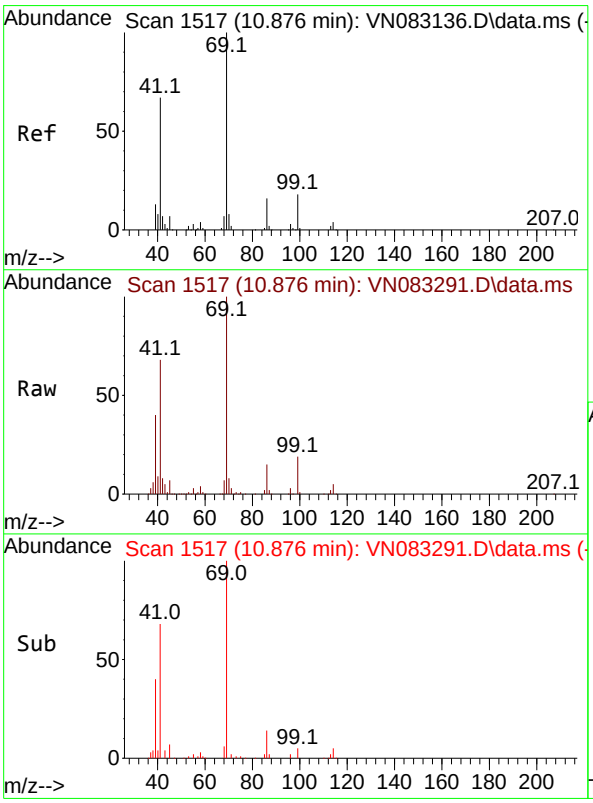
Ion	Ratio	Lower	Upper
97	100		
83	86.4	71.4	107.0
85	52.4	45.8	68.6
99	61.4	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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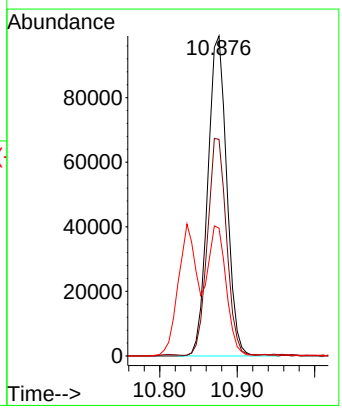
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

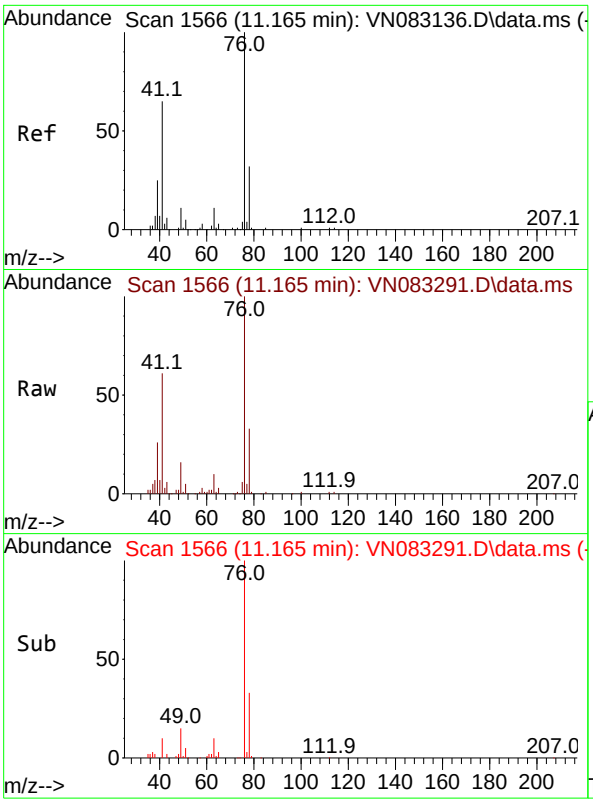


#56
Ethyl methacrylate
Concen: 52.609 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 69 Resp: 168724

Ion	Ratio	Lower	Upper
69	100		
41	67.8	63.4	95.2
39	39.8	37.4	56.0

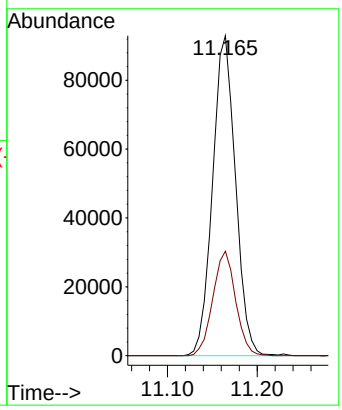




#57
1,3-Dichloropropane
Concen: 54.349 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 76 Resp: 16480

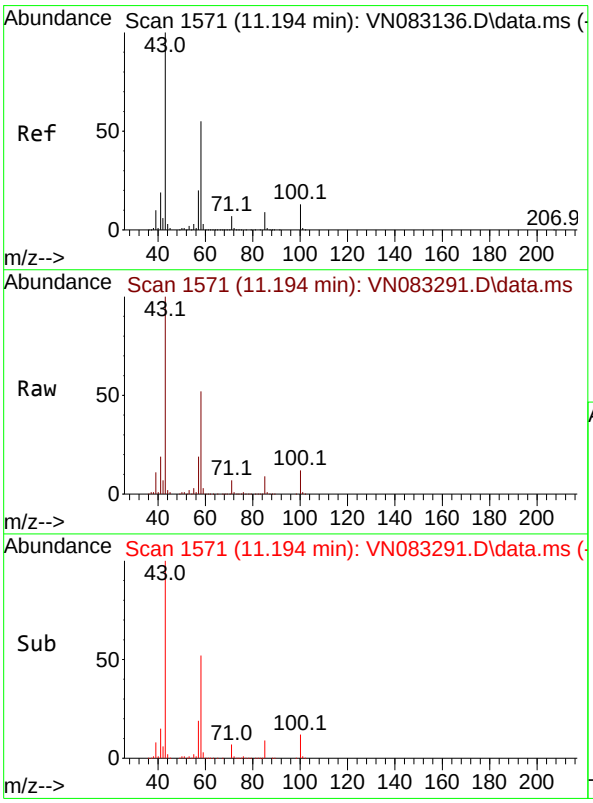
Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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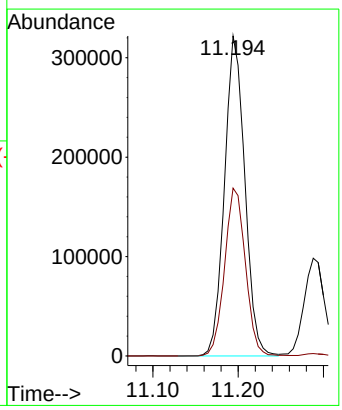
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

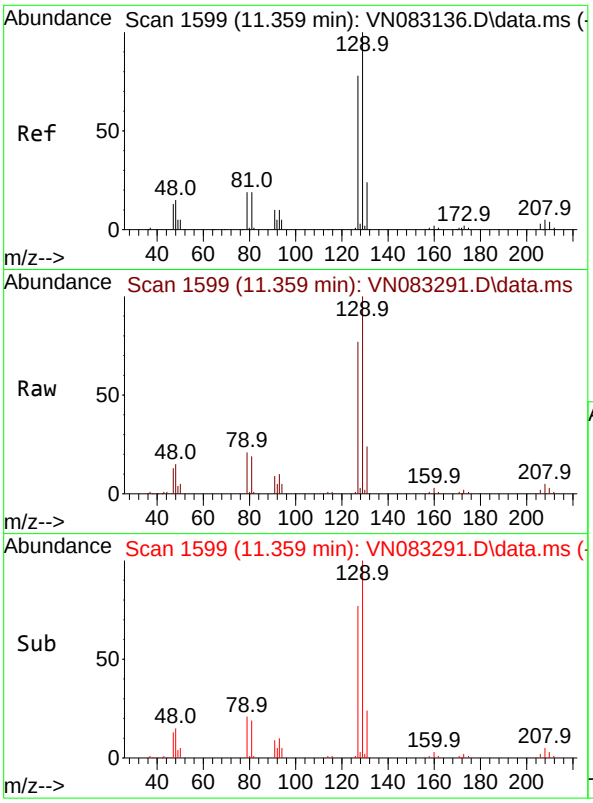


#59
2-Hexanone
Concen: 258.178 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 43 Resp: 533360

Ion	Ratio	Lower	Upper
43	100		
58	53.6	24.6	73.8

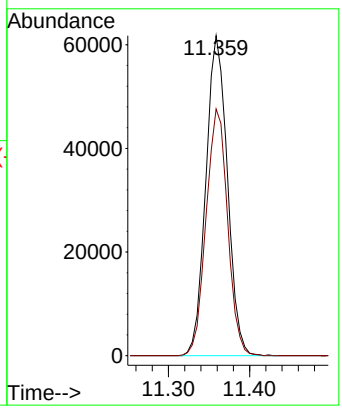




#60
Dibromochloromethane
Concen: 55.207 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:129 Resp: 11355

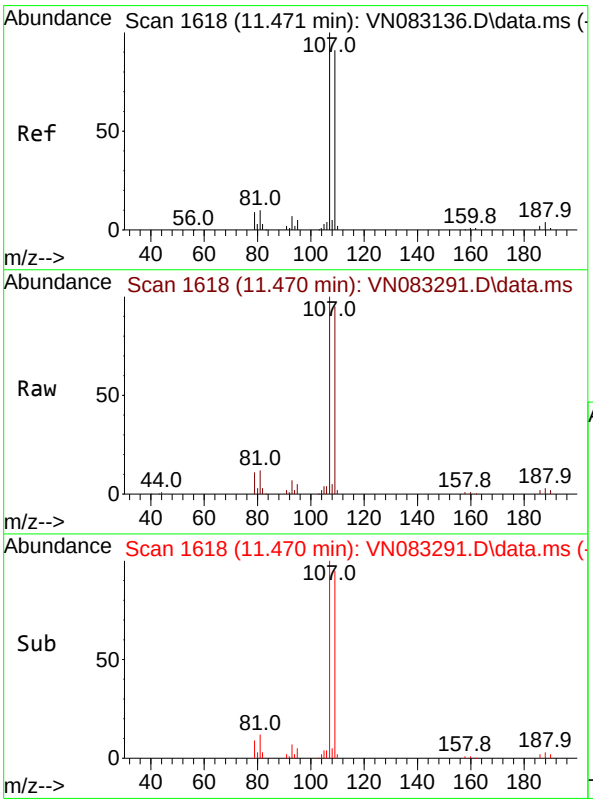
Ion	Ratio	Lower	Upper
129	100		
127	77.1	39.2	117.6



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

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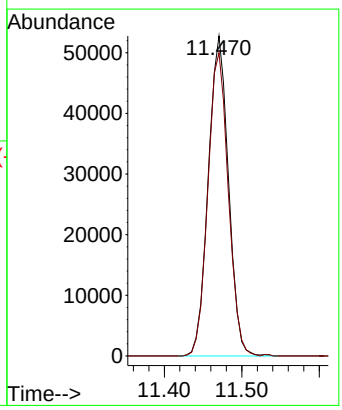
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

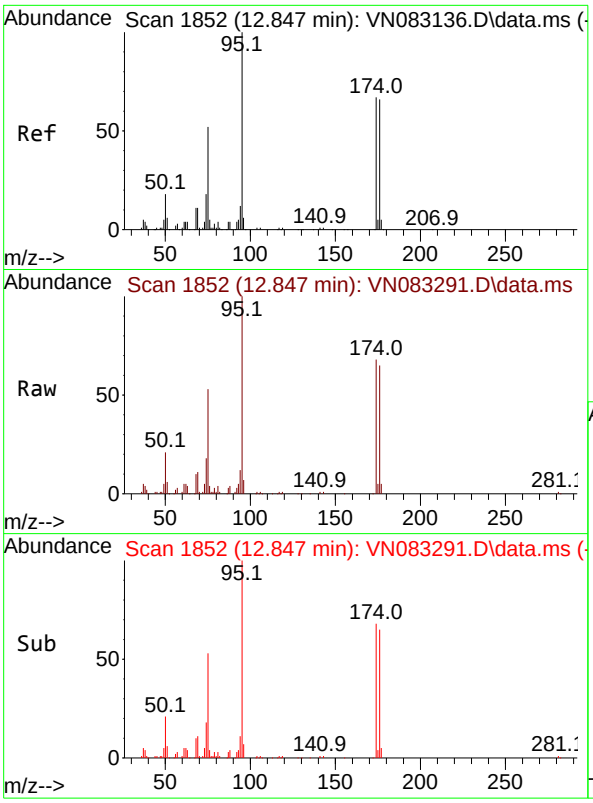


#61
1,2-Dibromoethane
Concen: 53.418 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:107 Resp: 95465

Ion	Ratio	Lower	Upper
107	100		
109	95.6	73.7	110.5





#62
4-Bromofluorobenzene
Concen: 54.595 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

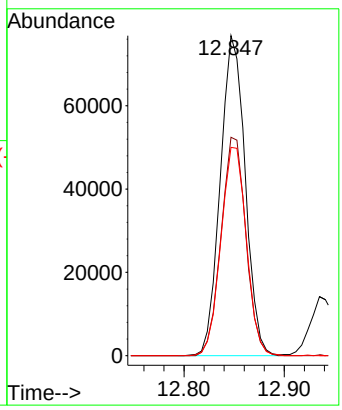
Tgt Ion: 95 Resp: 13237

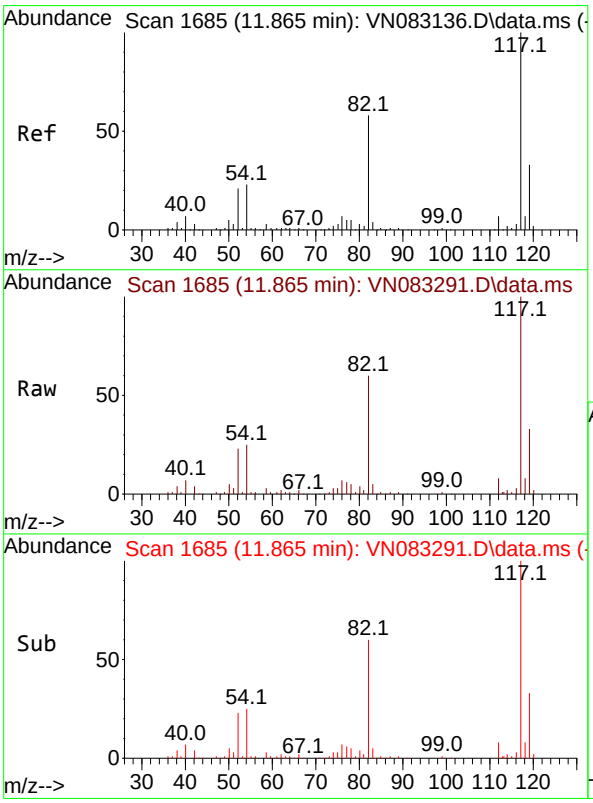
Ion	Ratio	Lower	Upper
95	100		
174	68.1	0.0	159.2
176	66.8	0.0	147.6

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

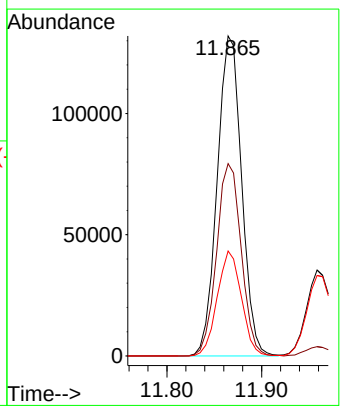


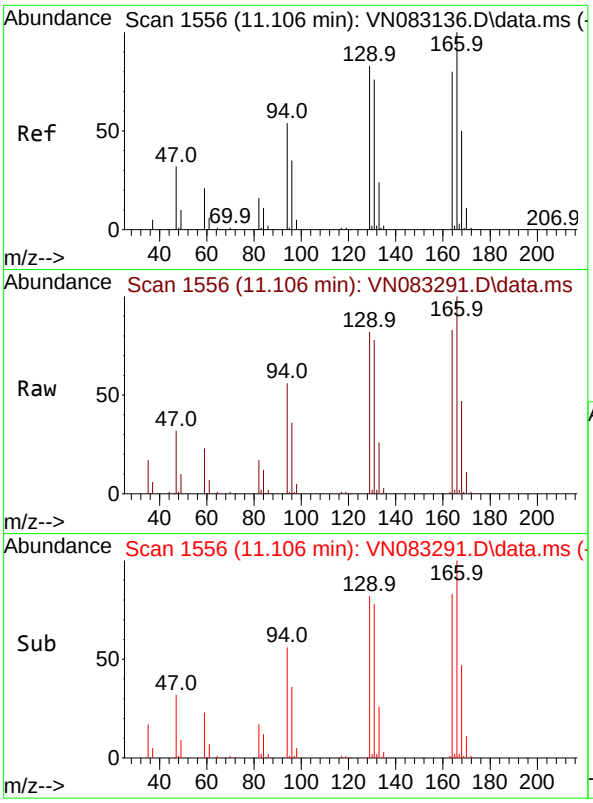


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:117 Resp: 236618

Ion	Ratio	Lower	Upper
117	100		
82	60.1	47.5	71.3
119	32.8	25.6	38.4

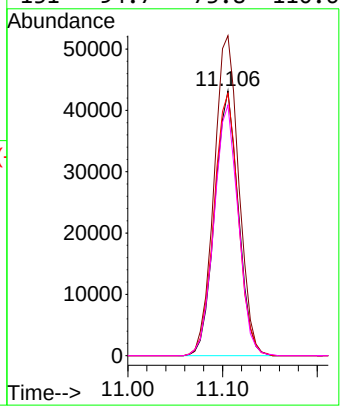




#64
Tetrachloroethene
Concen: 47.849 ug/l
RT: 11.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

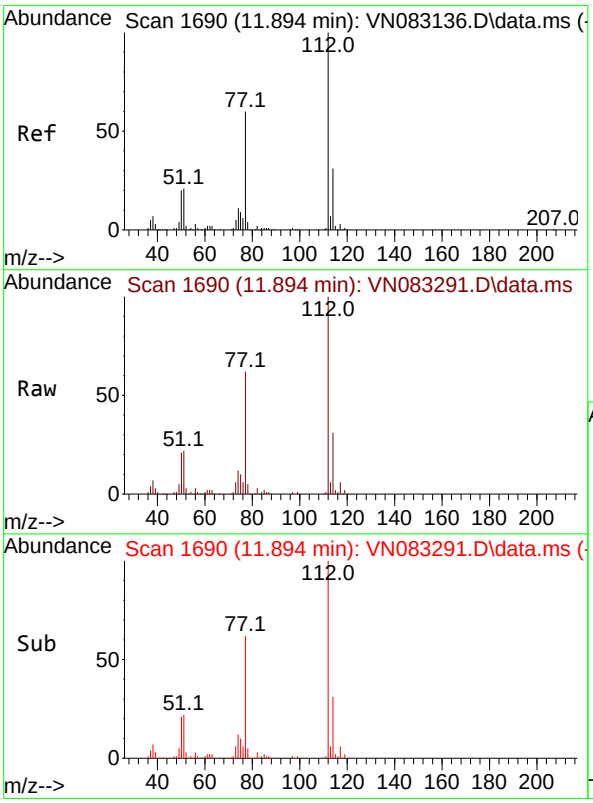
Tgt Ion:164 Resp: 7498

Ion	Ratio	Lower	Upper
164	100		
166	120.9	101.4	152.0
129	99.1	75.7	113.5
131	94.7	73.8	110.6



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

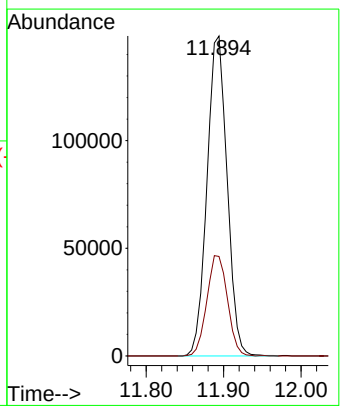
Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

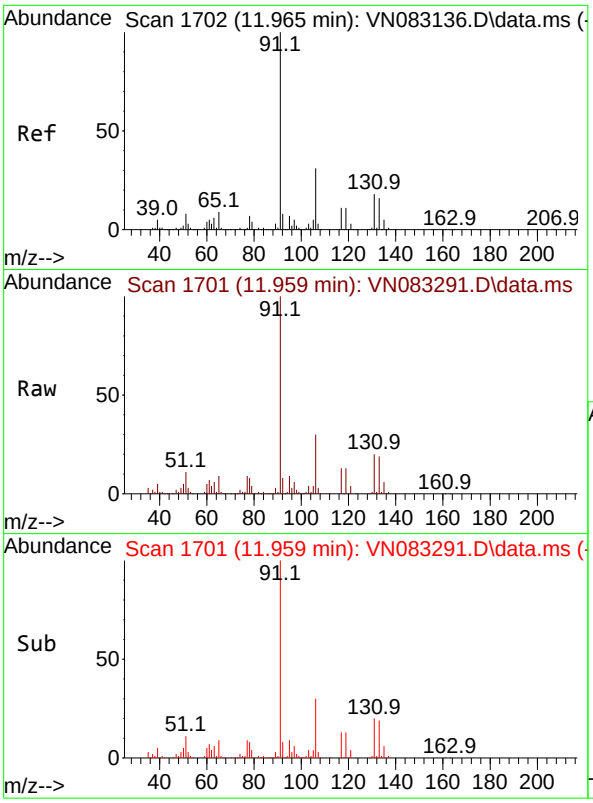


#65
Chlorobenzene
Concen: 51.202 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:112 Resp: 267734

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.2	39.2





#66
1,1,1,2-Tetrachloroethane
Concen: 52.188 ug/l
RT: 11.959 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

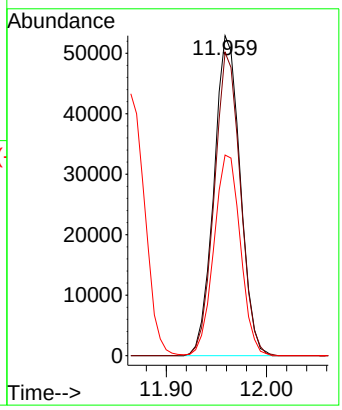
Tgt Ion:131 Resp: 9624

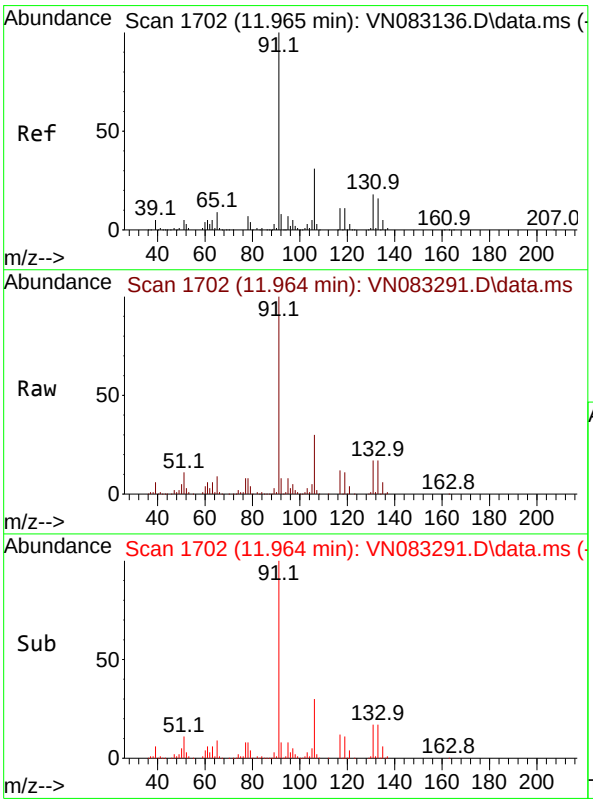
Ion	Ratio	Lower	Upper
131	100		
133	93.8	47.3	142.0
119	63.4	32.5	97.4

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

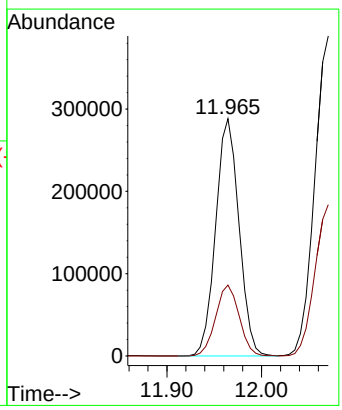


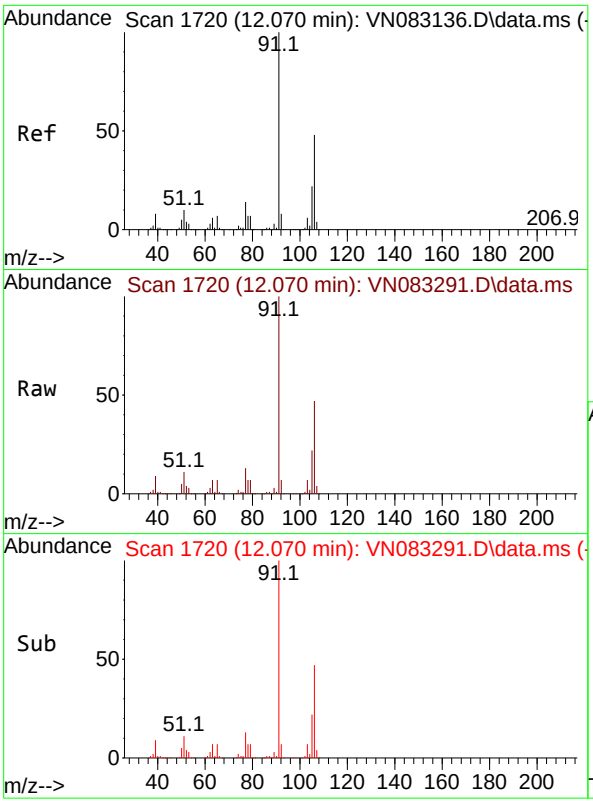


#67
Ethyl Benzene
Concen: 51.443 ug/l
RT: 11.964 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 91 Resp: 493460

Ion	Ratio	Lower	Upper
91	100		
106	29.9	24.0	36.0





#68
m/p-Xylenes
Concen: 102.346 ug/l
RT: 12.070 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

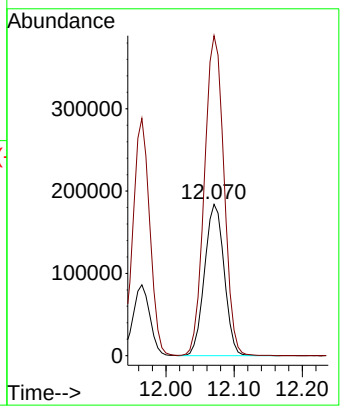
Tgt Ion:106 Resp: 36775

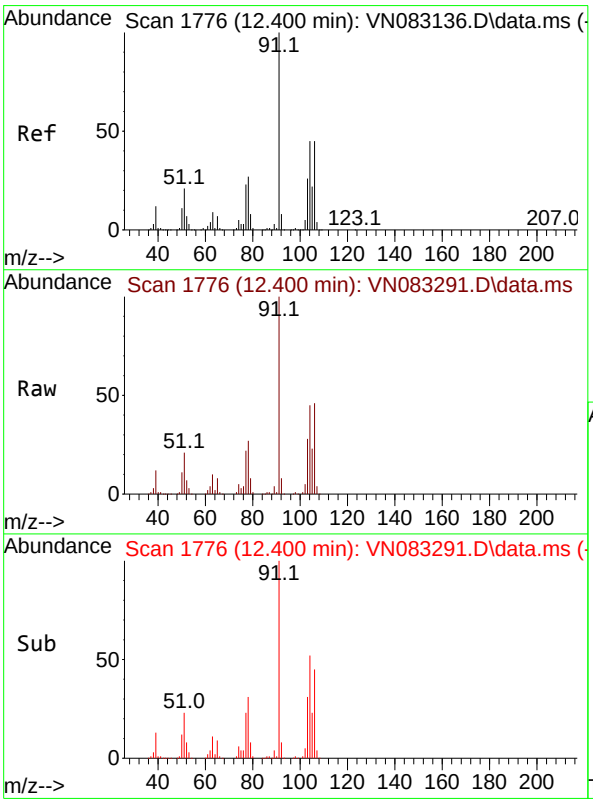
Ion	Ratio	Lower	Upper
106	100		
91	211.2	166.1	249.1

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

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Supervised By :Semsettin Yesilyurt 08/16/2024

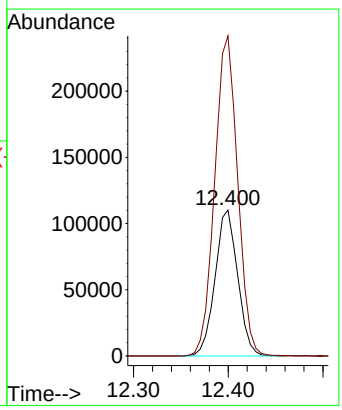


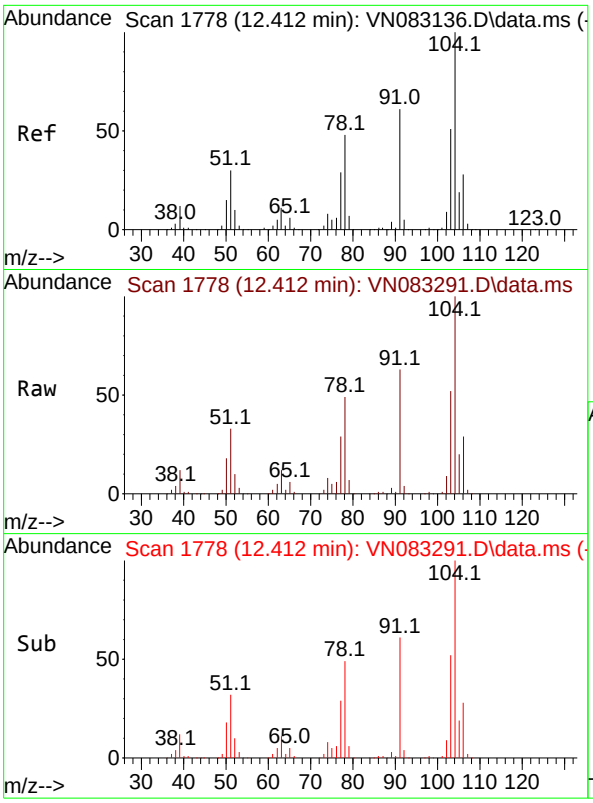


#69
o-Xylene
Concen: 51.599 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:106 Resp: 182861

Ion	Ratio	Lower	Upper
106	100		
91	222.9	111.3	333.9

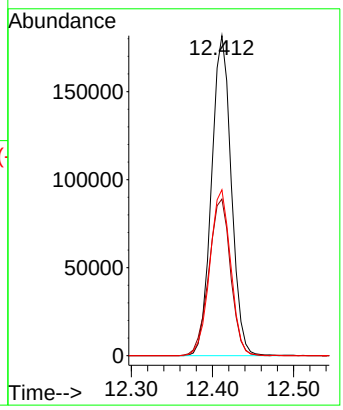




#70
Styrene
Concen: 51.707 ug/l
RT: 12.412 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:104 Resp: 30776

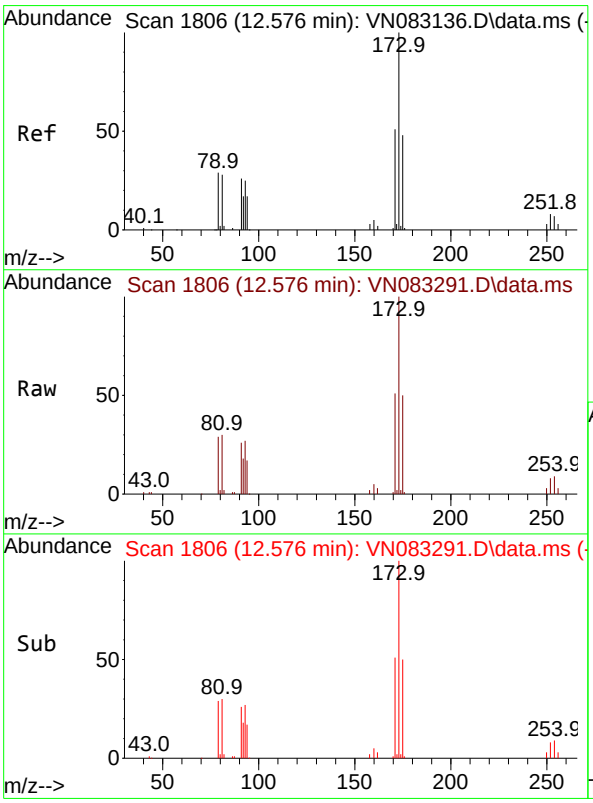
Ion	Ratio	Lower	Upper
104	100		
78	53.8	41.6	62.4
103	54.7	44.0	66.0



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

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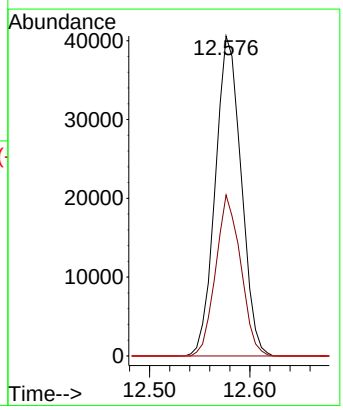
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

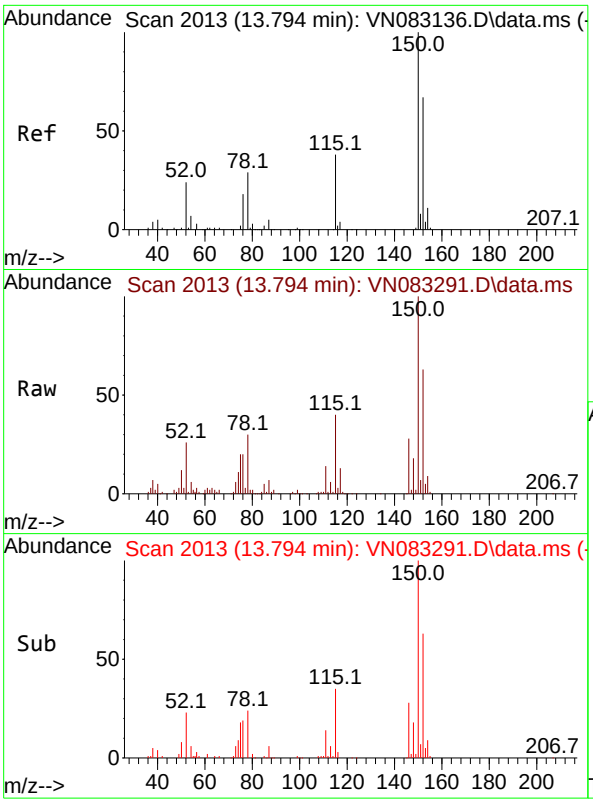


#71
Bromoform
Concen: 51.938 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:173 Resp: 72561

Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.0	72.0
254	0.0	0.0	0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

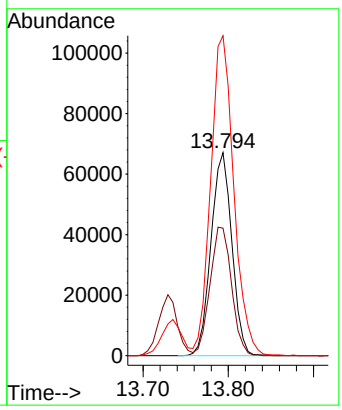
Tgt Ion:152 Resp: 11416

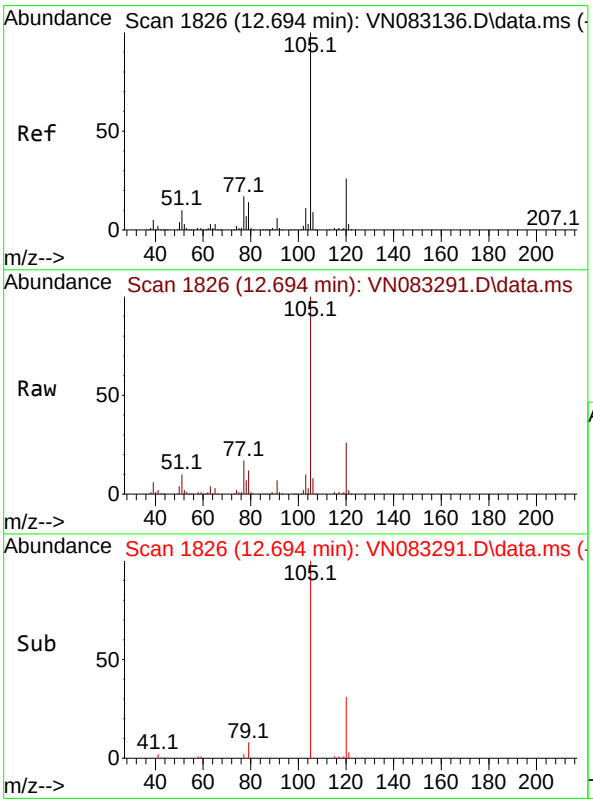
Ion	Ratio	Lower	Upper
152	100		
115	65.2	30.6	91.6
150	174.3	0.0	348.6

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

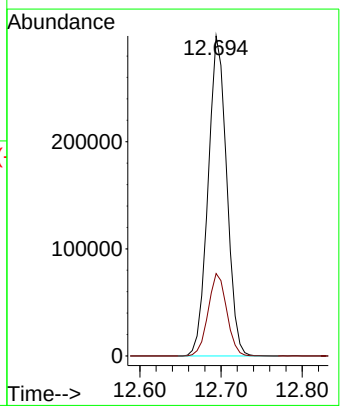


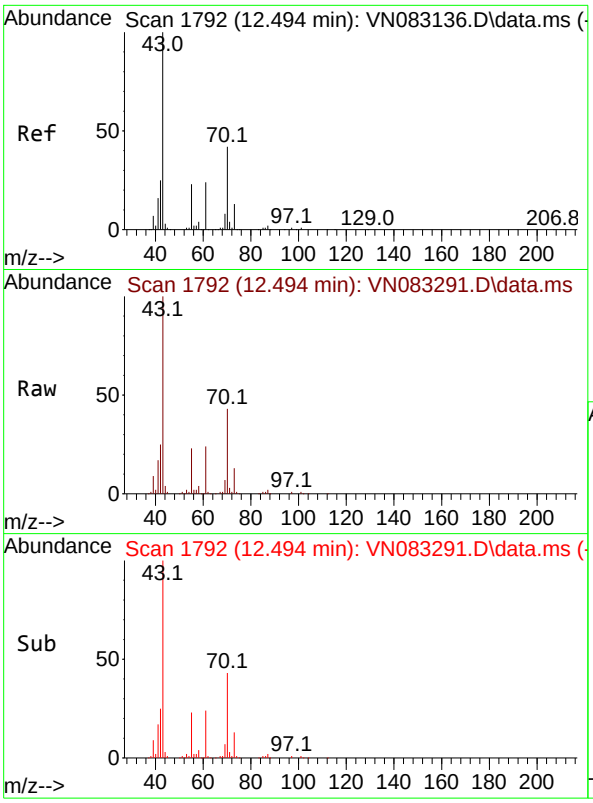


#73
Isopropylbenzene
Concen: 49.732 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:105 Resp: 474897

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.9	38.6

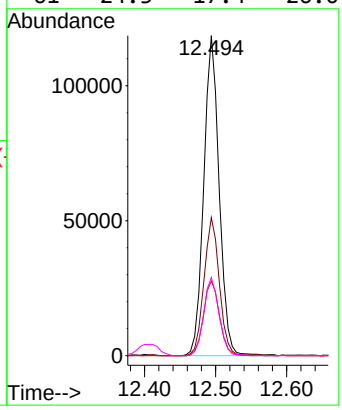




#74
N-amyl acetate
Concen: 38.308 ug/l
RT: 12.494 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 43 Resp: 17893

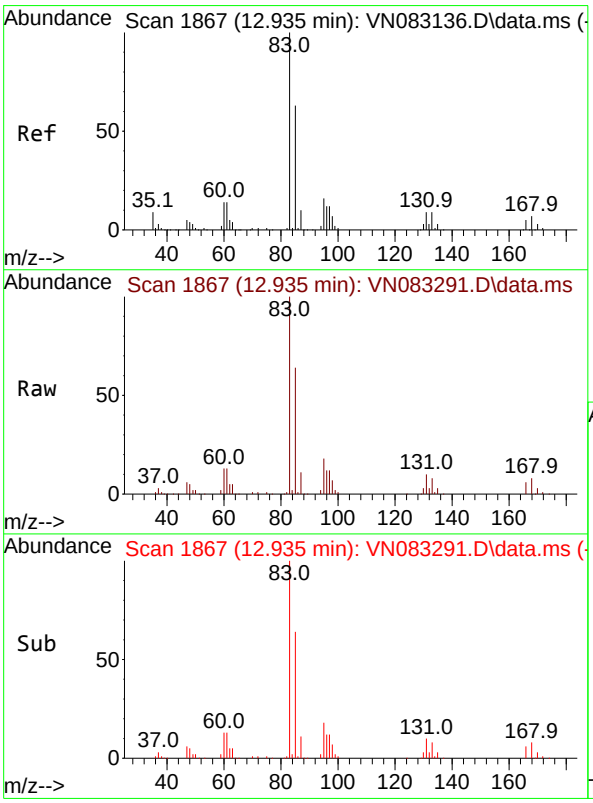
Ion	Ratio	Lower	Upper
43	100		
70	43.1	29.8	44.6
55	24.1	18.7	28.1
61	24.3	17.4	26.0



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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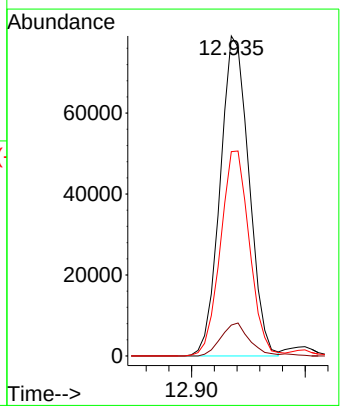
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

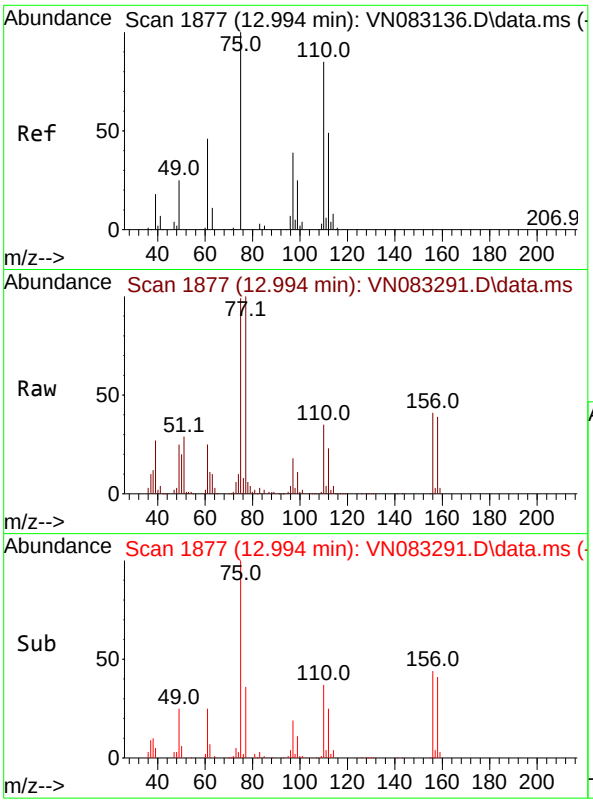


#75
1,1,2,2-Tetrachloroethane
Concen: 51.402 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 83 Resp: 138825

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.0	14.9
85	64.8	31.9	95.7





#76
1,2,3-Trichloropropane
Concen: 41.977 ug/l m
RT: 12.994 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

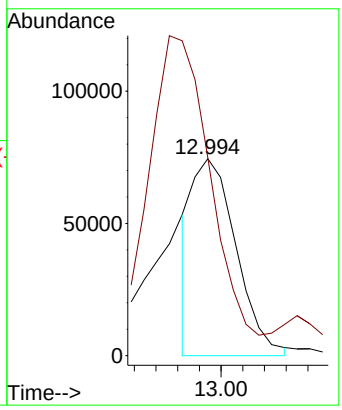
Tgt Ion: 75 Resp: 10517

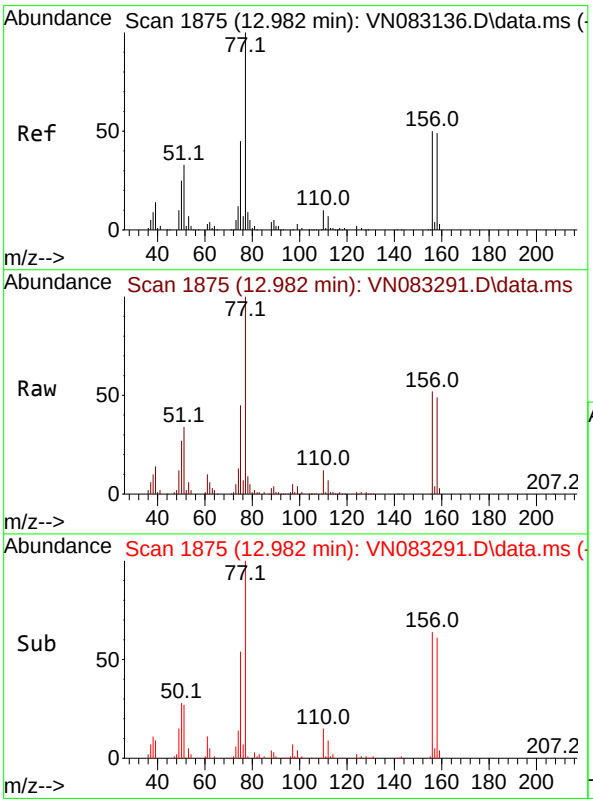
Ion	Ratio	Lower	Upper
75	100		
77	233.4	110.9	332.6

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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Supervised By :Semsettin Yesilyurt 08/16/2024

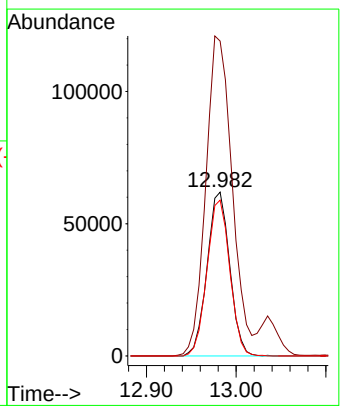


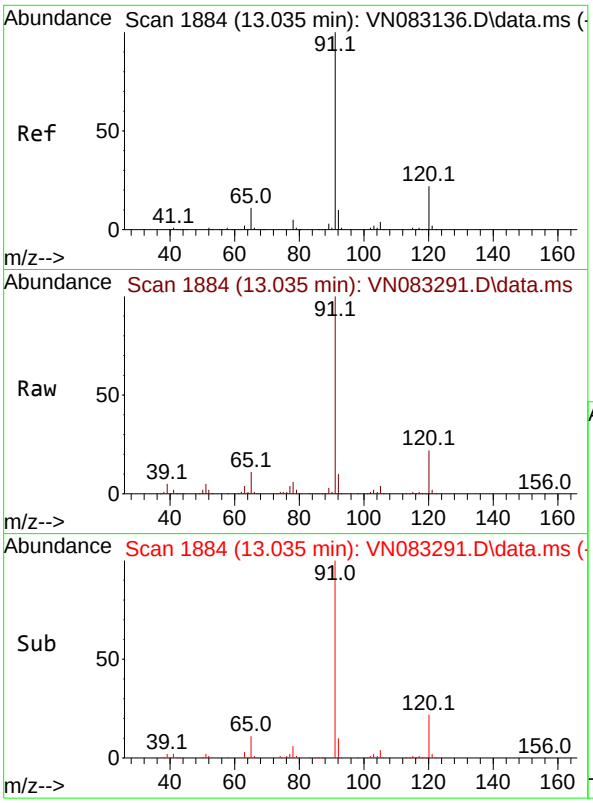


#77
Bromobenzene
Concen: 51.143 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:156 Resp: 108487

Ion	Ratio	Lower	Upper
156	100		
77	226.3	111.3	333.8
158	95.7	48.3	144.9





#78
n-propylbenzene
Concen: 49.911 ug/l
RT: 13.035 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

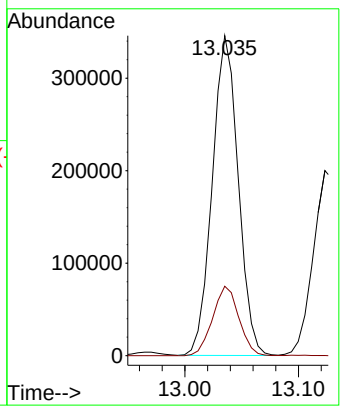
Tgt Ion: 91 Resp: 54879

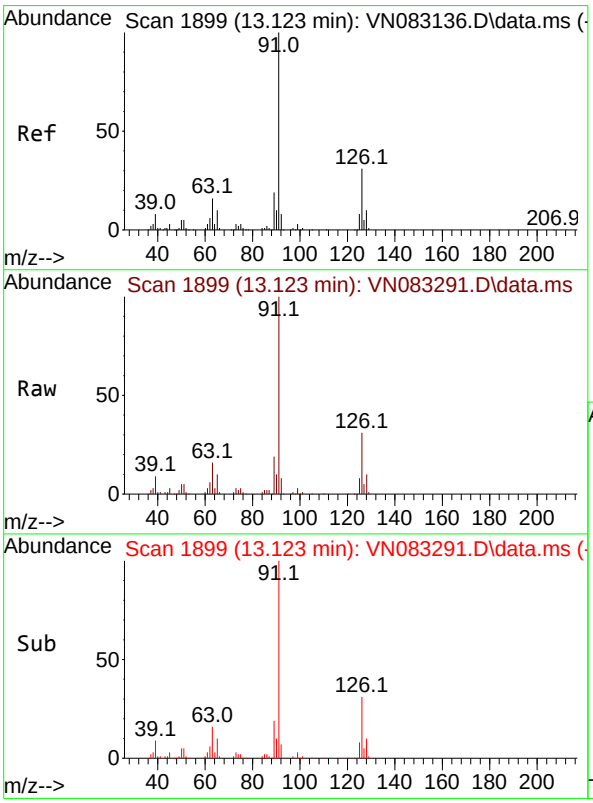
Ion	Ratio	Lower	Upper
91	100		
120	21.9	10.9	32.9

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

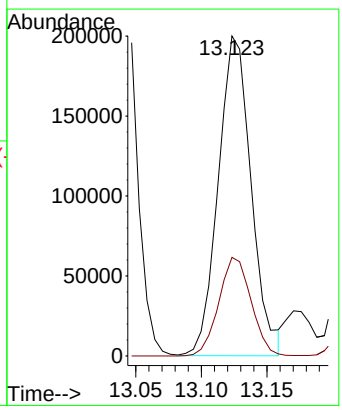


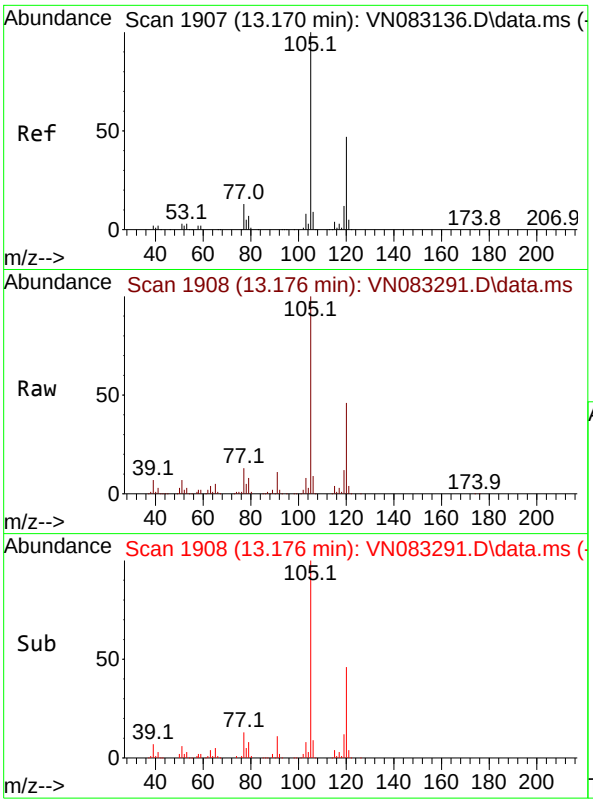


#79
2-Chlorotoluene
Concen: 50.029 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 91 Resp: 348757

Ion	Ratio	Lower	Upper
91	100		
126	30.4	16.2	48.6





#80
1,3,5-Trimethylbenzene
Concen: 49.827 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

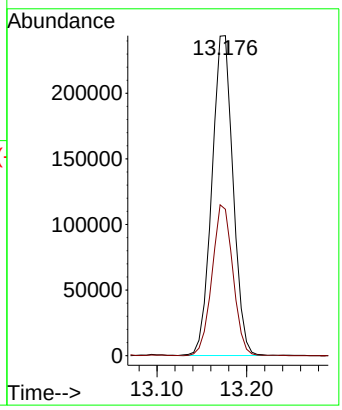
Tgt Ion:105 Resp: 39834

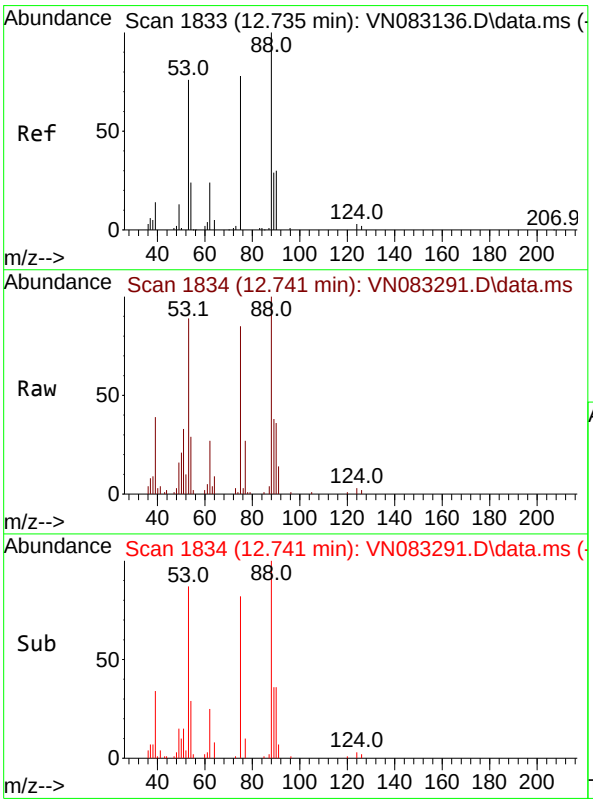
Ion	Ratio	Lower	Upper
105	100		
120	46.8	24.3	72.8

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

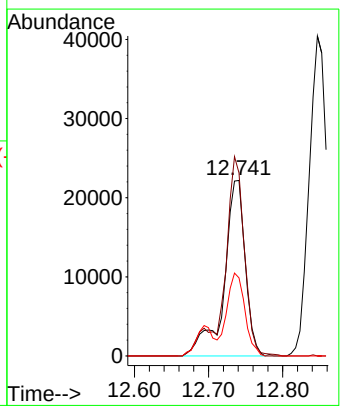


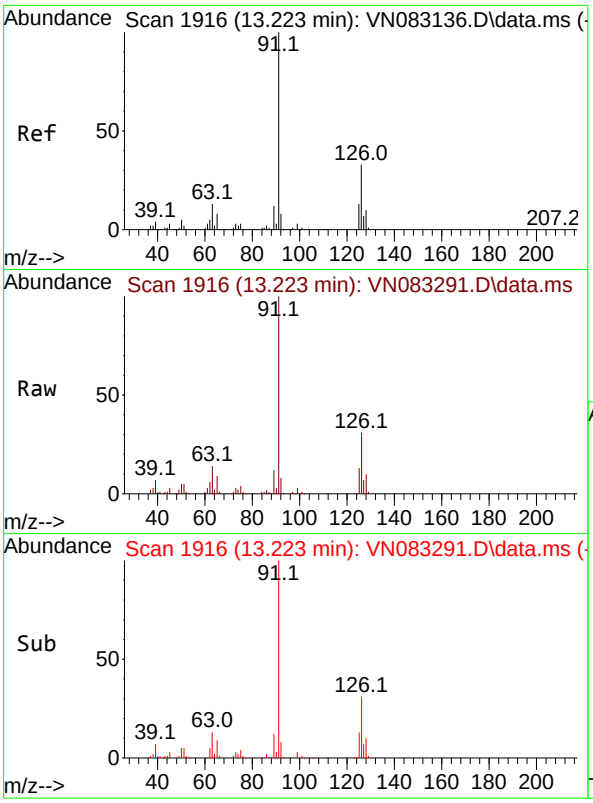


#81
trans-1,4-Dichloro-2-butene
Concen: 38.194 ug/l
RT: 12.741 min Scan# 1834
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 75 Resp: 43995

Ion	Ratio	Lower	Upper
75	100		
53	96.6	88.4	132.6
89	40.3	36.3	54.5

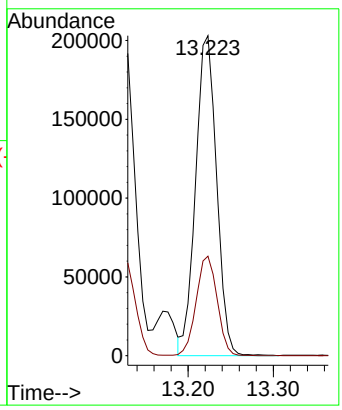




#82
4-Chlorotoluene
Concen: 49.743 ug/l
RT: 13.223 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 91 Resp: 34782

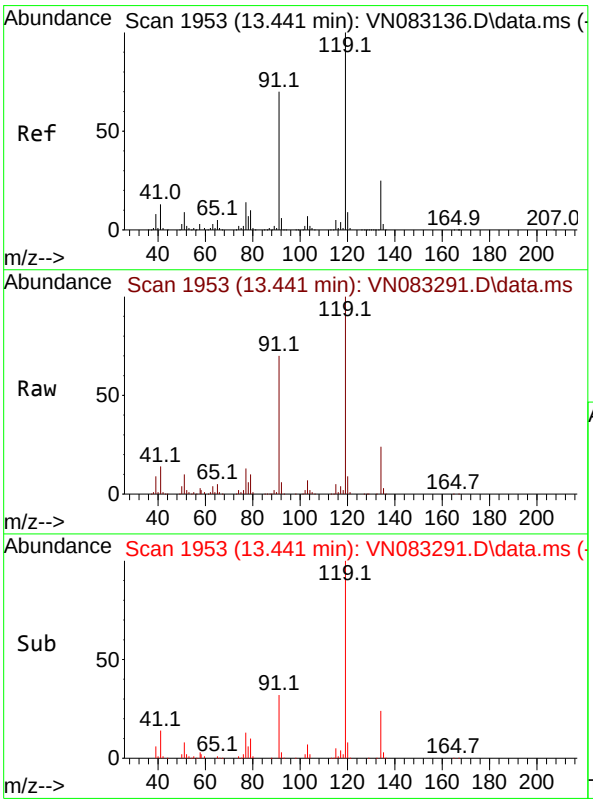
Ion	Ratio	Lower	Upper
91	100		
126	31.0	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

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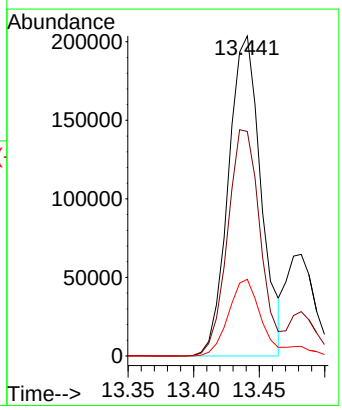
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

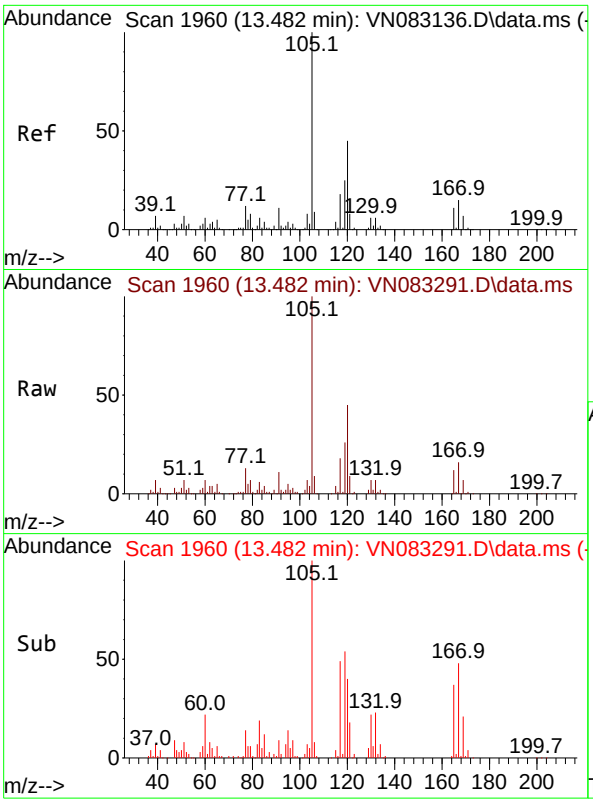


#83
tert-Butylbenzene
Concen: 49.817 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:119 Resp: 352698

Ion	Ratio	Lower	Upper
119	100		
91	70.4	35.0	105.1
134	25.7	13.3	39.8





#84
1,2,4-Trimethylbenzene
Concen: 50.212 ug/l
RT: 13.482 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

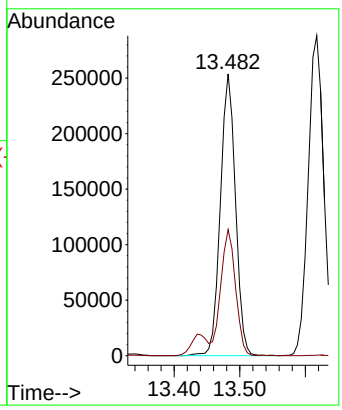
Tgt Ion:105 Resp: 40454

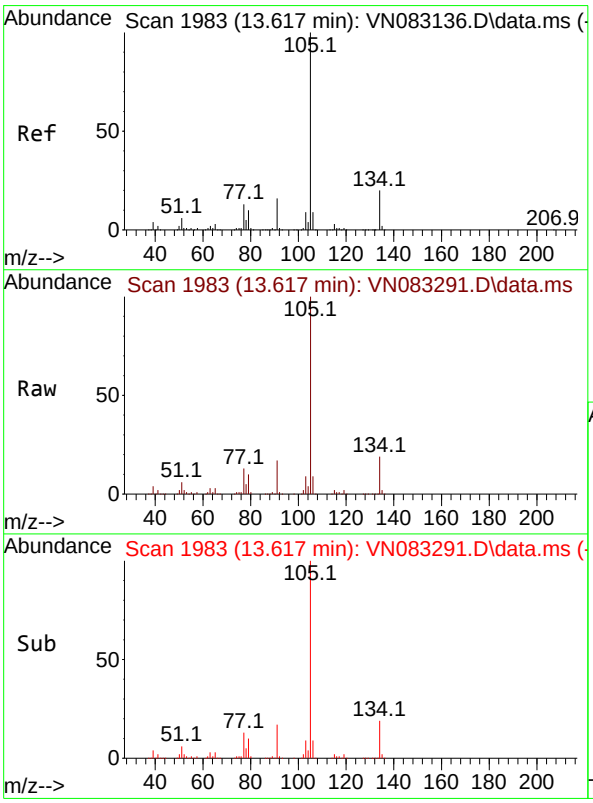
Ion	Ratio	Lower	Upper
105	100		
120	43.9	21.9	65.8

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

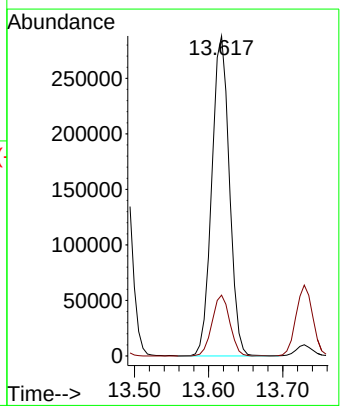


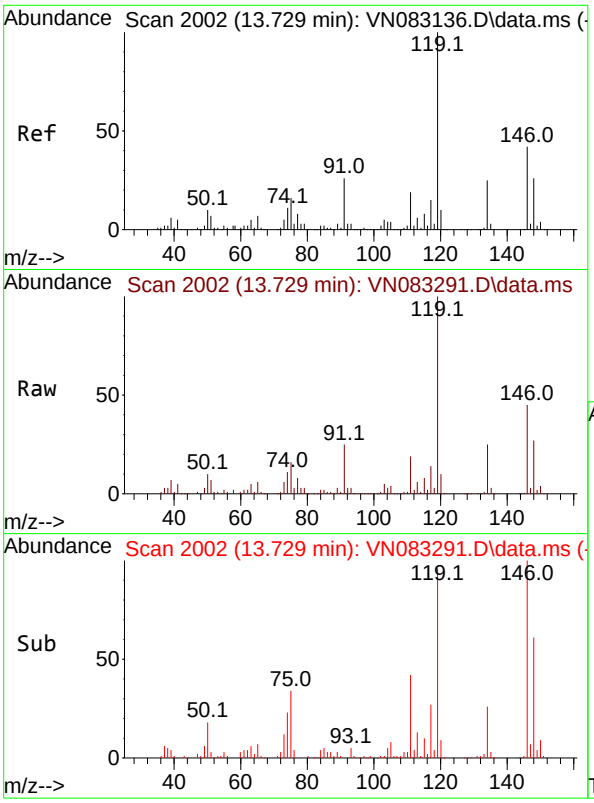


#85
sec-Butylbenzene
Concen: 49.145 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:105 Resp: 474766

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.3

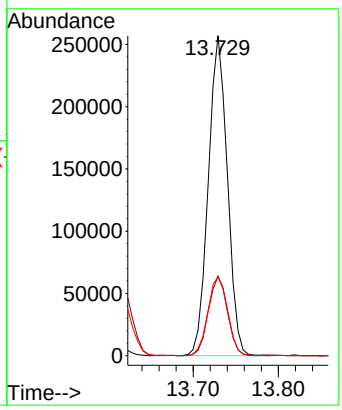




#86
p-Isopropyltoluene
Concen: 50.044 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:119 Resp: 39917

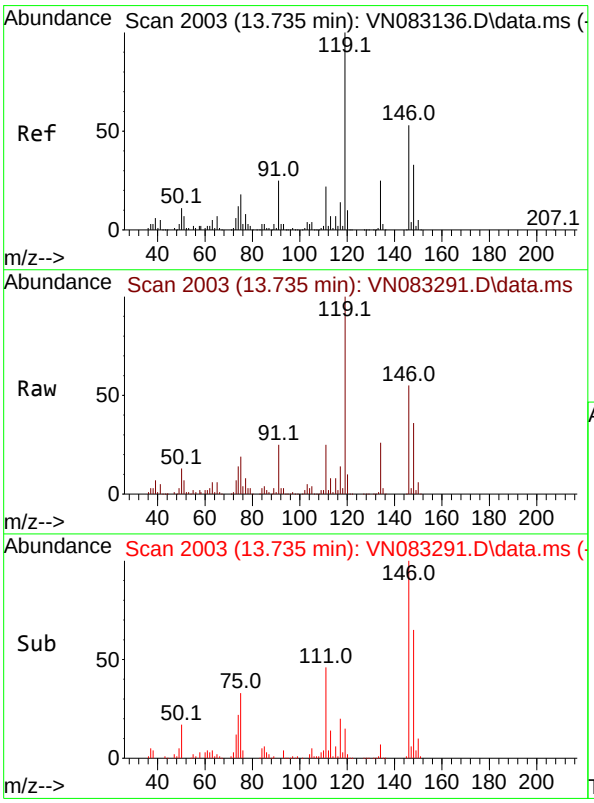
Ion	Ratio	Lower	Upper
119	100		
134	25.0	13.0	39.0
91	25.3	12.3	36.9



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
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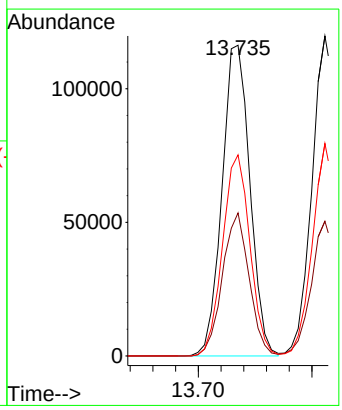
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

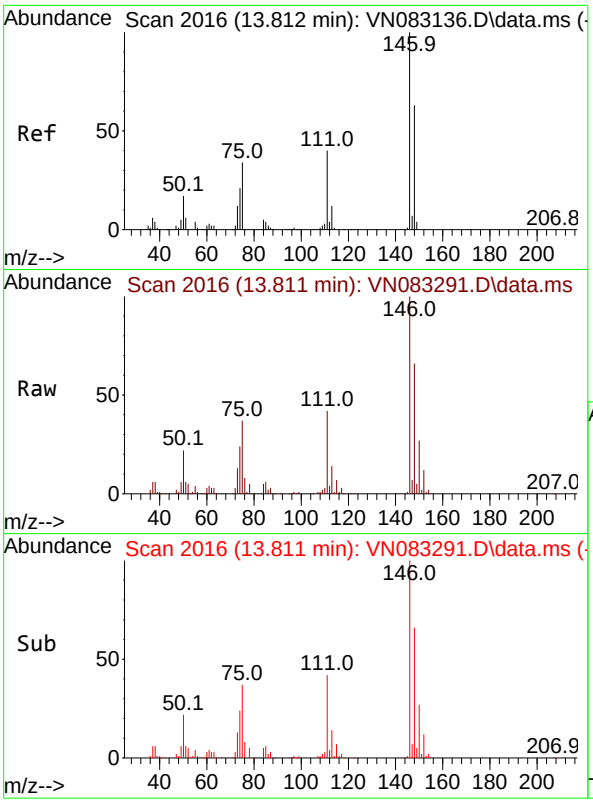


#87
1,3-Dichlorobenzene
Concen: 49.593 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:146 Resp: 197945

Ion	Ratio	Lower	Upper
146	100		
111	44.2	20.6	61.9
148	63.7	31.8	95.3





#88
1,4-Dichlorobenzene
Concen: 49.398 ug/l
RT: 13.811 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

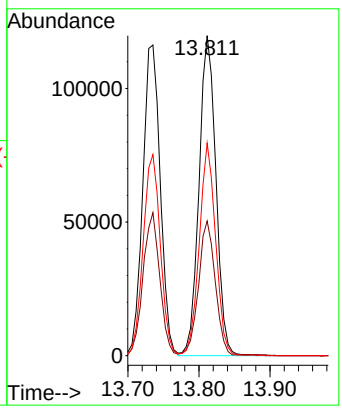
Tgt Ion:146 Resp: 19877

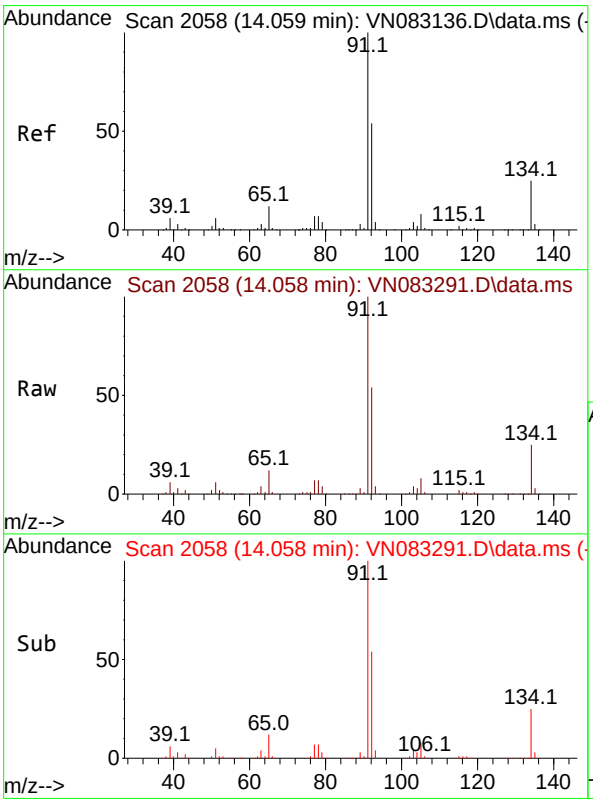
Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.1	60.3
148	64.2	32.2	96.6

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

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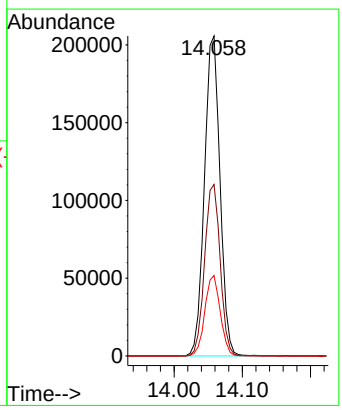


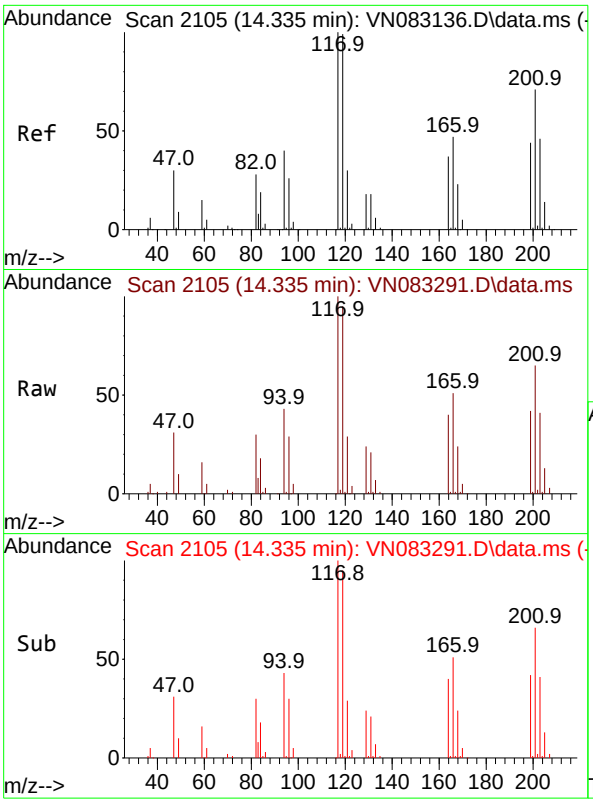


#89
n-Butylbenzene
Concen: 47.385 ug/l
RT: 14.058 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 91 Resp: 327504

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.1	78.3
134	24.8	12.1	36.3





#90
Hexachloroethane
Concen: 48.608 ug/l
RT: 14.335 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

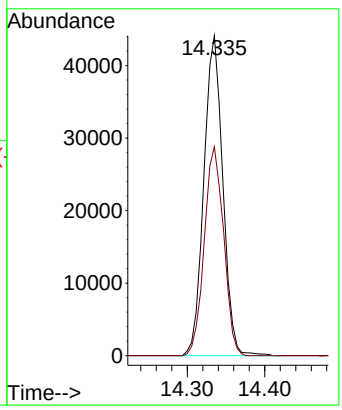
Tgt Ion:117 Resp: 7490

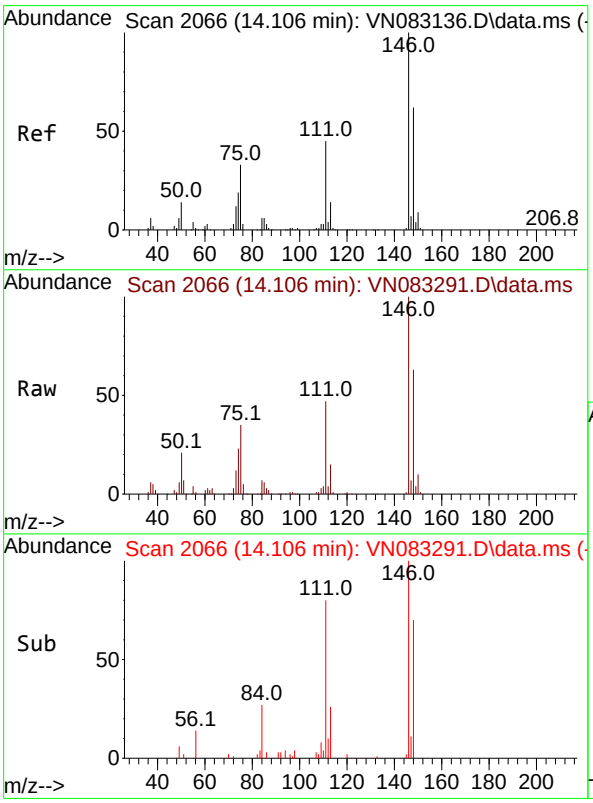
Ion	Ratio	Lower	Upper
117	100		
201	66.7	35.8	107.3

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

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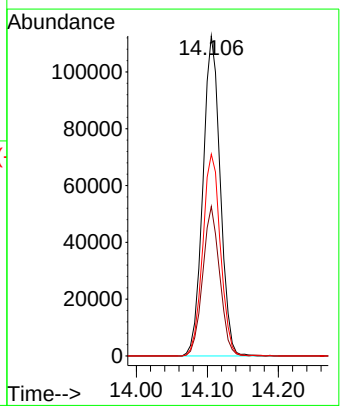


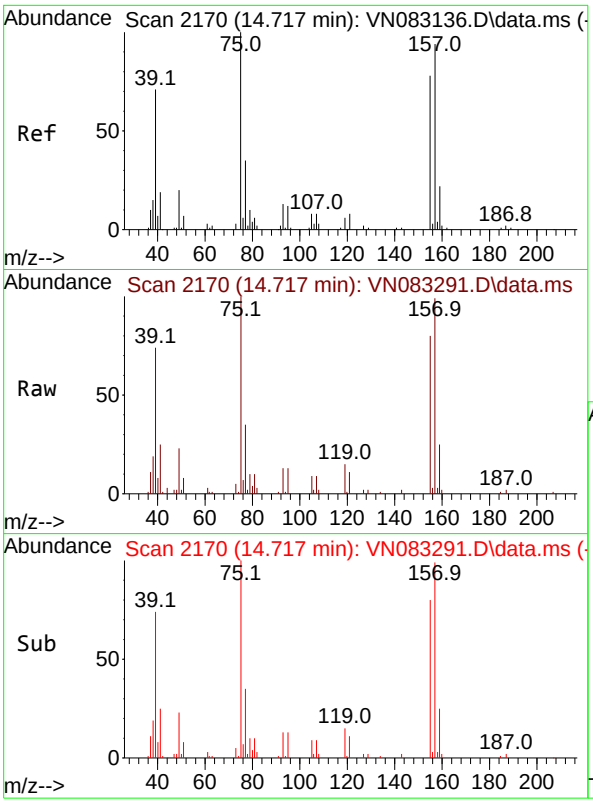


#91
1,2-Dichlorobenzene
Concen: 49.457 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:146 Resp: 191027

Ion	Ratio	Lower	Upper
146	100		
111	45.8	21.4	64.2
148	64.4	32.1	96.5





#92
1,2-Dibromo-3-Chloropropane
Concen: 45.965 ug/l
RT: 14.717 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

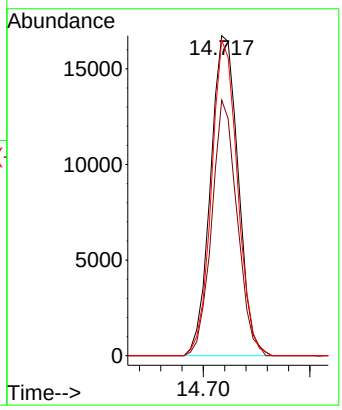
Tgt Ion: 75 Resp: 3012

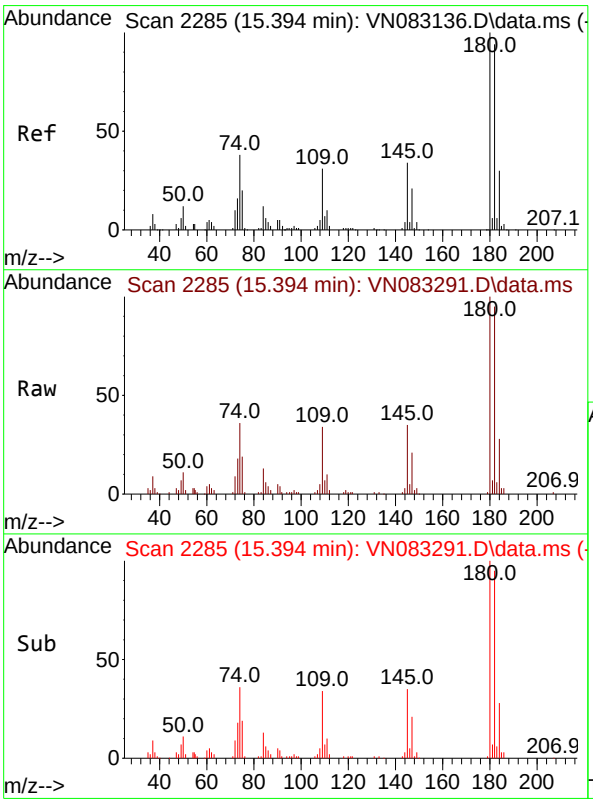
Ion	Ratio	Lower	Upper
75	100		
155	73.2	36.6	109.8
157	92.7	46.9	140.6

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

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Supervised By :Semsettin Yesilyurt 08/16/2024

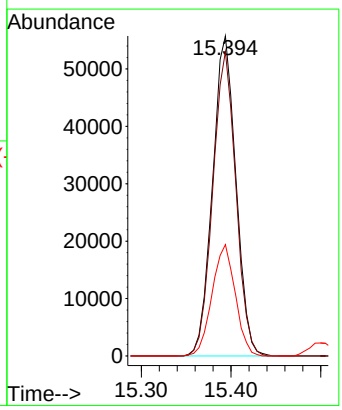


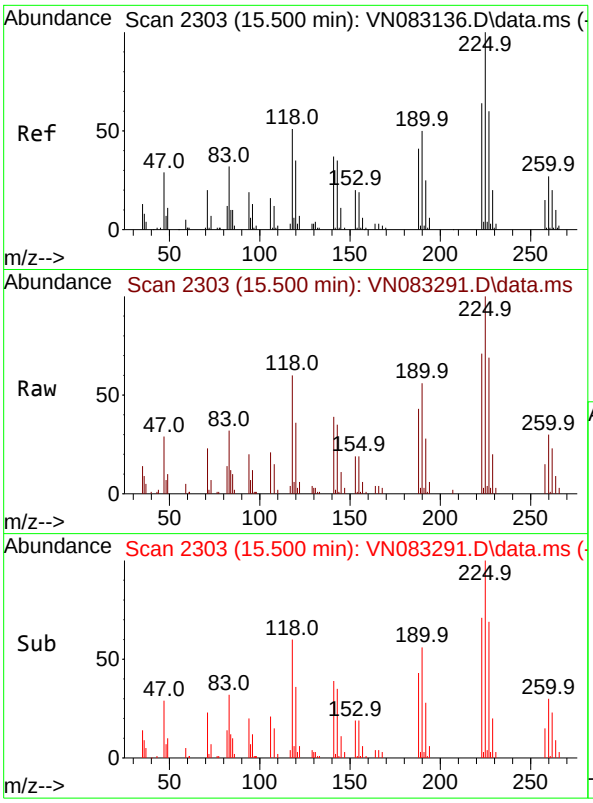


#93
1,2,4-Trichlorobenzene
Concen: 46.598 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:180 Resp: 100832

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.3	141.8
145	34.6	15.7	47.1

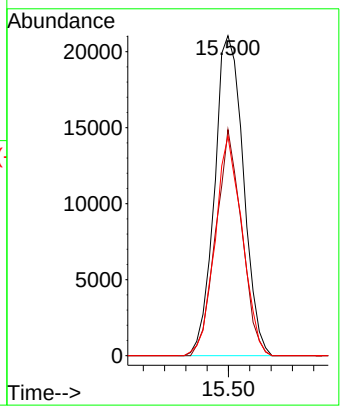




#94
Hexachlorobutadiene
Concen: 41.088 ug/l
RT: 15.500 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:225 Resp: 3954

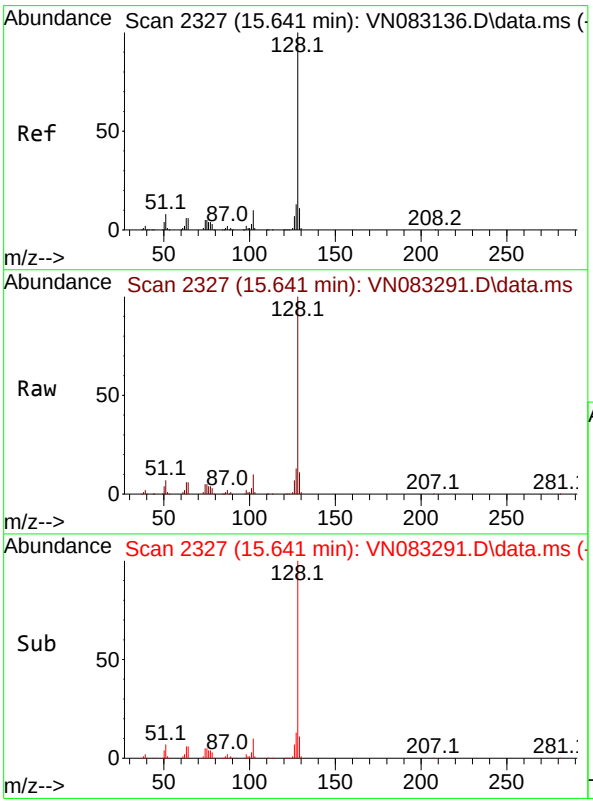
Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.9	95.7
227	64.7	32.5	97.5



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

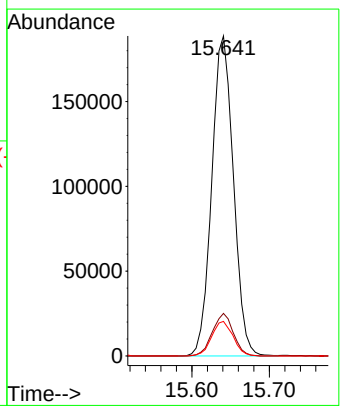
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

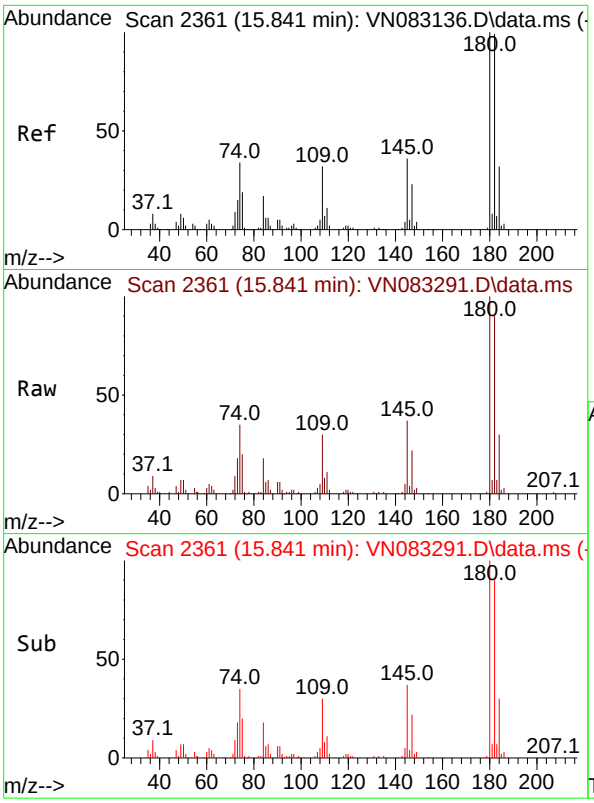


#95
Naphthalene
Concen: 47.753 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:128 Resp: 366023

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.7	8.6	12.8

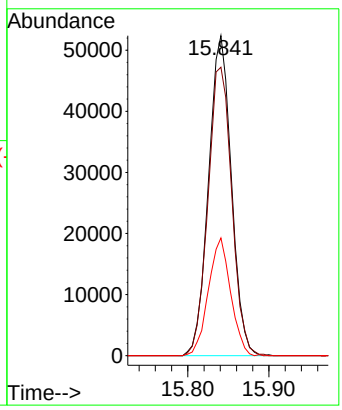




#96
1,2,3-Trichlorobenzene
Concen: 47.797 ug/l
RT: 15.841 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:180 Resp: 10234

Ion	Ratio	Lower	Upper
180	100		
182	94.1	48.9	146.8
145	35.9	16.8	50.4



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	924-K1-WP0-0.25-080224MSD	SDG No.:	P3451
Lab Sample ID:	P3466-03MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083292.D	1		08/14/24 10:52	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	47.3		0.21	1.00	ug/L
74-87-3	Chloromethane	49.0		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	50.8		0.34	1.00	ug/L
74-83-9	Bromomethane	43.5		1.40	5.00	ug/L
75-00-3	Chloroethane	52.7		0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	49.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	47.6		0.26	1.00	ug/L
67-64-1	Acetone	240		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	41.8		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	51.2		0.16	1.00	ug/L
75-09-2	Methylene Chloride	47.6		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	48.2		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	52.5		0.23	1.00	ug/L
110-82-7	Cyclohexane	43.7		1.60	5.00	ug/L
78-93-3	2-Butanone	240		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	48.4		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	50.3		0.25	1.00	ug/L
67-66-3	Chloroform	53.9		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	52.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	42.6		0.19	1.00	ug/L
71-43-2	Benzene	49.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	50.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	47.5		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	49.3		0.24	1.00	ug/L
108-88-3	Toluene	49.6		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	51.9		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	51.4		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	43.7		0.25	1.00	ug/L
108-90-7	Chlorobenzene	47.5		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	47.2		0.16	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	924-K1-WP0-0.25-080224MSD	SDG No.:	P3451
Lab Sample ID:	P3466-03MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083292.D	1		08/14/24 10:52	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	93.7		0.31	2.00	ug/L
1330-20-7	Total Xylenes	141		0.45	3.00	ug/L
95-47-6	o-Xylene	47.7		0.14	1.00	ug/L
98-82-8	Isopropylbenzene	46.1		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	46.0		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	46.9		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (74) - 130 (125)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.1		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	154000	8.229			
540-36-3	1,4-Difluorobenzene	282000	9.1			
3114-55-4	Chlorobenzene-d5	252000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.794			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083292.D
Acq On : 14 Aug 2024 10:52
Operator : JC\MD
Sample : P3466-03MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Aug 14 14:15:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.229	168	154428	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	282107	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	251921	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	119630	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.576	65	130165	59.217	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.440%				
35) Dibromofluoromethane	8.171	113	92840	52.724	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.440%				
50) Toluene-d8	10.565	98	348630	53.077	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.160%				
62) 4-Bromofluorobenzene	12.847	95	134539	52.539	ug/l		0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 105.080%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	82803	47.283	ug/l		99
3) Chloromethane	2.365	50	87933	49.045	ug/l		99
4) Vinyl Chloride	2.512	62	92901	50.781	ug/l		99
5) Bromomethane	2.942	94	49331	43.457	ug/l		98
6) Chloroethane	3.112	64	60341	52.719	ug/l		98
7) Trichlorofluoromethane	3.489	101	157585	52.142	ug/l		99
8) Diethyl Ether	3.959	74	55923	49.727	ug/l		86
9) 1,1,2-Trichlorotrifluo...	4.365	101	82970	49.794	ug/l		97
10) Methyl Iodide	4.583	142	88739	40.486	ug/l		98
11) Tert butyl alcohol	5.530	59	115159	252.095	ug/l		99
12) 1,1-Dichloroethene	4.341	96	81479	47.596	ug/l		92
13) Acrolein	4.183	56	65329	219.430	ug/l		100
14) Allyl chloride	5.024	41	129406	40.002	ug/l		93
15) Acrylonitrile	5.718	53	240455	255.942	ug/l		98
16) Acetone	4.430	43	205914	239.403	ug/l		99
17) Carbon Disulfide	4.712	76	209479	41.821	ug/l		100
18) Methyl Acetate	5.024	43	107105	41.795	ug/l	#	89
19) Methyl tert-butyl Ether	5.794	73	316133	51.163	ug/l		98
20) Methylene Chloride	5.277	84	94141	47.558	ug/l		89
21) trans-1,2-Dichloroethene	5.788	96	85230	48.172	ug/l		91
22) Diisopropyl ether	6.671	45	315055	51.811	ug/l		97
23) Vinyl Acetate	6.606	43	1247461	200.144	ug/l		96
24) 1,1-Dichloroethane	6.565	63	174125	52.534	ug/l		99
25) 2-Butanone	7.482	43	318146	240.896	ug/l	#	90
26) 2,2-Dichloropropane	7.488	77	71957	23.377	ug/l		92
27) cis-1,2-Dichloroethene	7.482	96	107293	50.254	ug/l		86
28) Bromochloromethane	7.812	49	69489	51.301	ug/l		85
29) Tetrahydrofuran	7.841	42	221071	258.947	ug/l		89
30) Chloroform	7.965	83	185692	53.925	ug/l		97
31) Cyclohexane	8.259	56	142286	43.680	ug/l		96
32) 1,1,1-Trichloroethane	8.171	97	170836	52.413	ug/l		95
36) 1,1-Dichloropropene	8.371	75	124531	46.751	ug/l		99
37) Ethyl Acetate	7.559	43	110479	37.043	ug/l	#	93
38) Carbon Tetrachloride	8.365	117	145214	48.402	ug/l		97
39) Methylcyclohexane	9.600	83	139487	42.635	ug/l		95
40) Benzene	8.606	78	388435	48.951	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083292.D
Acq On : 14 Aug 2024 10:52
Operator : JC\MD
Sample : P3466-03MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Aug 14 14:15:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	75298	44.404	ug/l		93
42) 1,2-Dichloroethane	8.671	62	147040	50.868	ug/l		98
43) Isopropyl Acetate	8.688	43	219658	41.971	ug/l	#	95
44) Trichloroethene	9.353	130	89740	47.513	ug/l		98
45) 1,2-Dichloropropane	9.623	63	95113	50.496	ug/l		99
46) Dibromomethane	9.706	93	68672	50.935	ug/l		99
47) Bromodichloromethane	9.888	83	149169	49.276	ug/l		97
48) Methyl methacrylate	9.682	41	111391	45.176	ug/l		92
49) 1,4-Dioxane	9.694	88	39176	880.677	ug/l		96
51) 4-Methyl-2-Pentanone	10.447	43	694864	246.380	ug/l		93
52) Toluene	10.629	92	248571	49.578	ug/l		98
53) t-1,3-Dichloropropene	10.835	75	136201	43.800	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	140574	42.502	ug/l		92
55) 1,1,2-Trichloroethane	11.017	97	93248	51.897	ug/l		99
56) Ethyl methacrylate	10.876	69	164293	48.503	ug/l		88
57) 1,3-Dichloropropane	11.165	76	162423	50.716	ug/l		99
59) 2-Hexanone	11.194	43	521980	239.233	ug/l		94
60) Dibromochloromethane	11.359	129	111659	51.400	ug/l		98
61) 1,2-Dibromoethane	11.470	107	94311	49.966	ug/l		98
64) Tetrachloroethene	11.106	164	72842	43.660	ug/l		95
65) Chlorobenzene	11.894	112	264480	47.507	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	93453	47.597	ug/l		99
67) Ethyl Benzene	11.964	91	482297	47.225	ug/l		100
68) m/p-Xylenes	12.070	106	358520	93.715	ug/l		98
69) o-Xylene	12.400	106	179973	47.699	ug/l		98
70) Styrene	12.412	104	300930	47.487	ug/l		98
71) Bromoform	12.582	173	72932	49.032	ug/l	#	99
73) Isopropylbenzene	12.694	105	461160	46.088	ug/l		99
74) N-amyl acetate	12.494	43	175088	35.773	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.935	83	135499	47.878	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	106098m	40.409	ug/l		
77) Bromobenzene	12.982	156	107457	48.344	ug/l		100
78) n-propylbenzene	13.035	91	529574	45.963	ug/l		100
79) 2-Chlorotoluene	13.123	91	340781	46.651	ug/l		96
80) 1,3,5-Trimethylbenzene	13.170	105	389428	46.486	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.735	75	37178	30.801	ug/l		97
82) 4-Chlorotoluene	13.223	91	340987	46.537	ug/l		96
83) tert-Butylbenzene	13.441	119	344950	46.497	ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	394404	46.717	ug/l		100
85) sec-Butylbenzene	13.617	105	462695	45.708	ug/l		100
86) p-Isopropyltoluene	13.729	119	384433	45.994	ug/l		97
87) 1,3-Dichlorobenzene	13.735	146	192209	45.956	ug/l		98
88) 1,4-Dichlorobenzene	13.811	146	193865	45.977	ug/l		98
89) n-Butylbenzene	14.058	91	317014	43.772	ug/l		98
90) Hexachloroethane	14.335	117	74049	45.856	ug/l		93
91) 1,2-Dichlorobenzene	14.106	146	189753	46.883	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.723	75	30084	43.807	ug/l		99
93) 1,2,4-Trichlorobenzene	15.394	180	99622	43.935	ug/l		98
94) Hexachlorobutadiene	15.500	225	39885	39.552	ug/l		98
95) Naphthalene	15.641	128	365990	45.567	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	101419	45.203	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083292.D
Acq On : 14 Aug 2024 10:52
Operator : JC\MD
Sample : P3466-03MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Aug 14 14:15:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

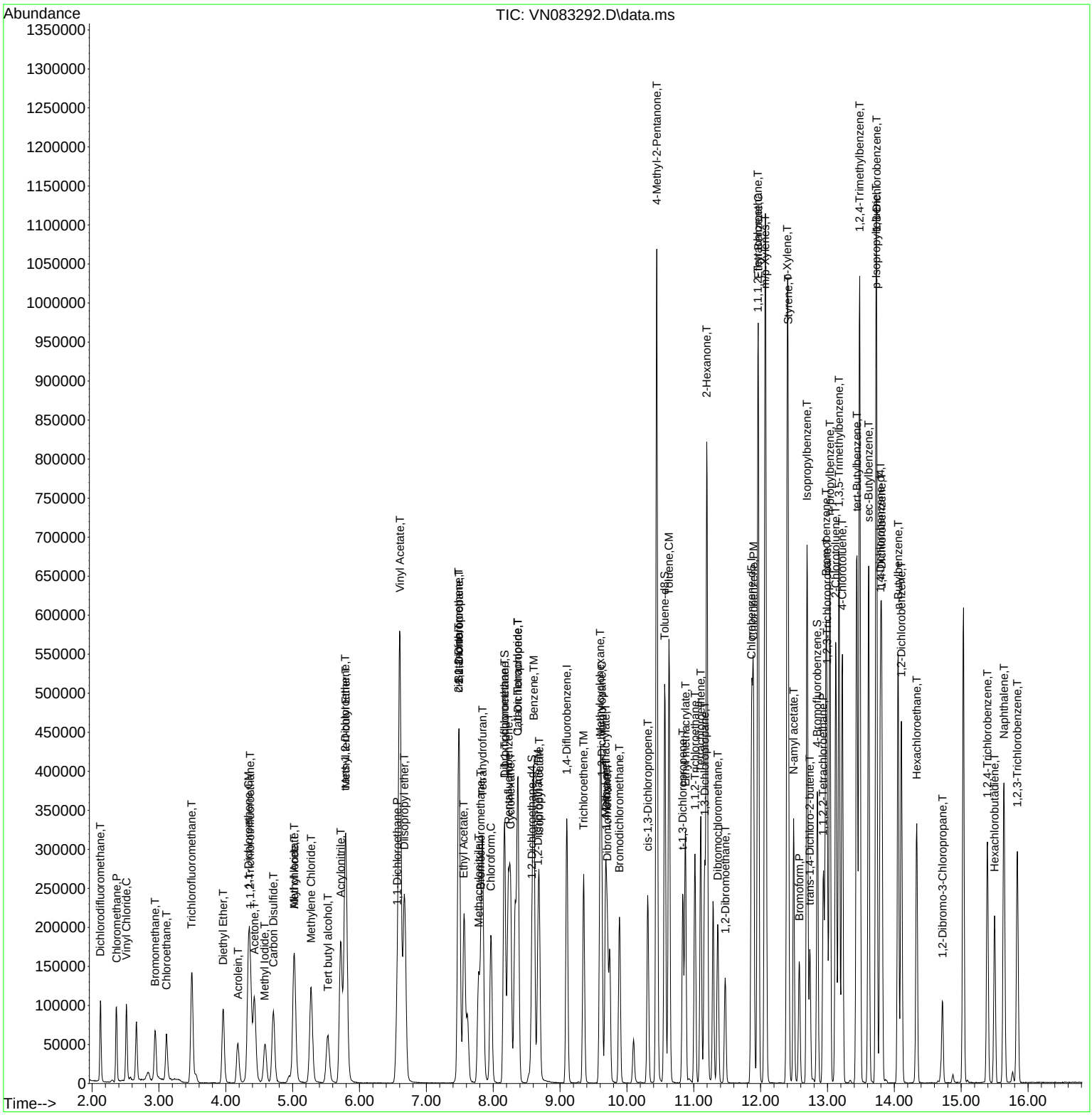
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083292.D
Acq On : 14 Aug 2024 10:52
Operator : JC\MD
Sample : P3466-03MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 53 Sample Multiplier: 1

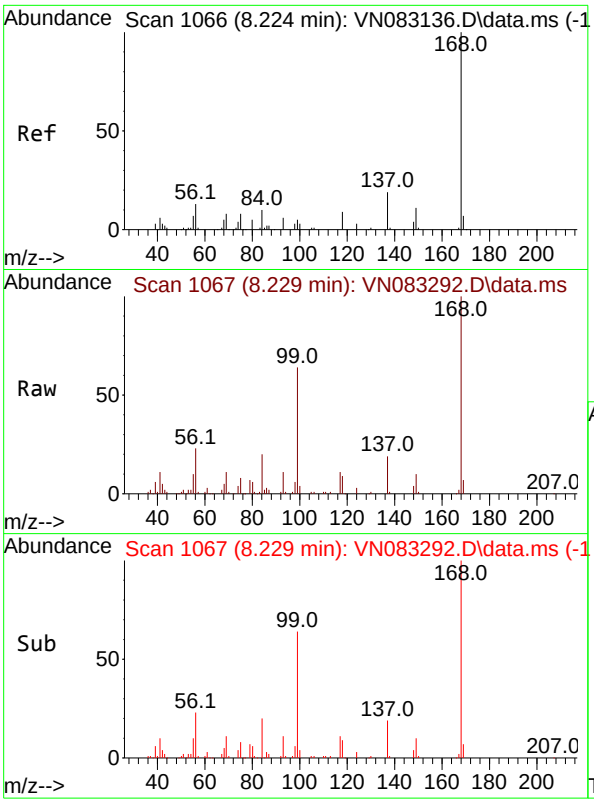
Quant Time: Aug 14 14:15:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

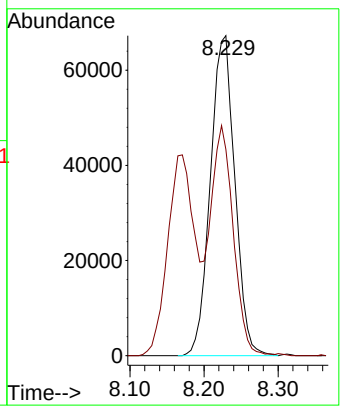
Tgt Ion:168 Resp: 15442

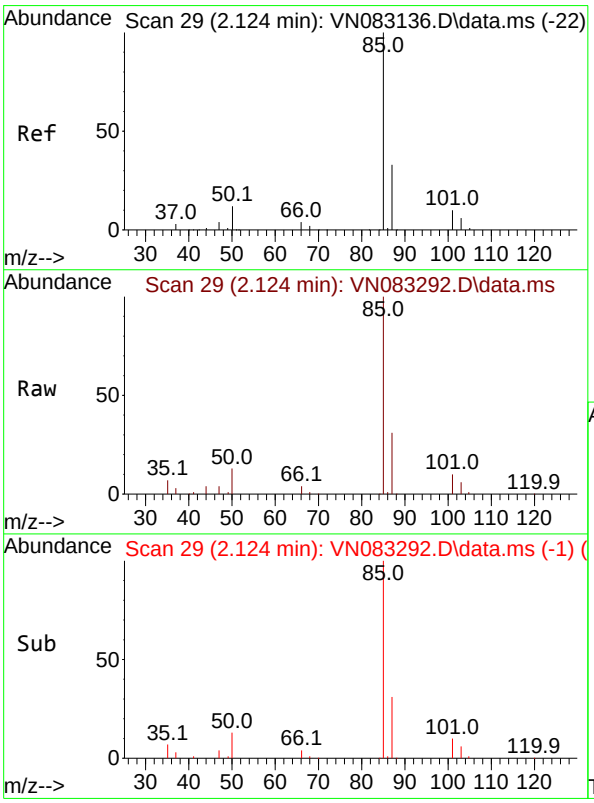
Ion	Ratio	Lower	Upper
168	100		
99	63.8	48.2	72.4

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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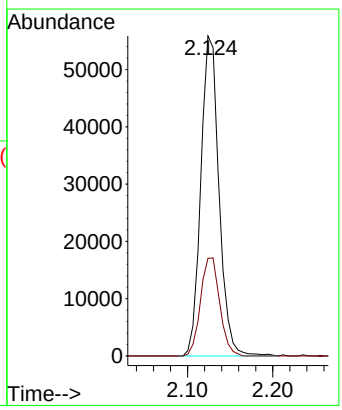


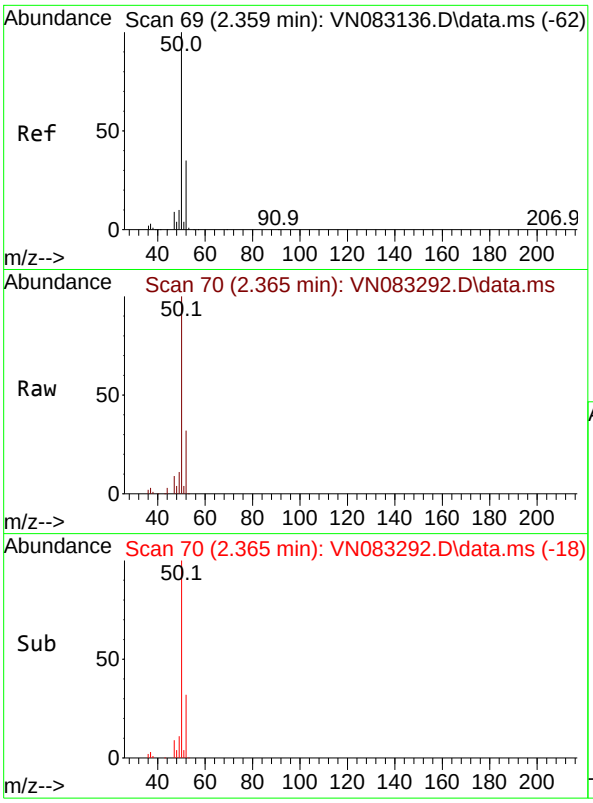


#2
Dichlorodifluoromethane
Concen: 47.283 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 85 Resp: 82803

Ion	Ratio	Lower	Upper
85	100		
87	30.5	15.7	47.0

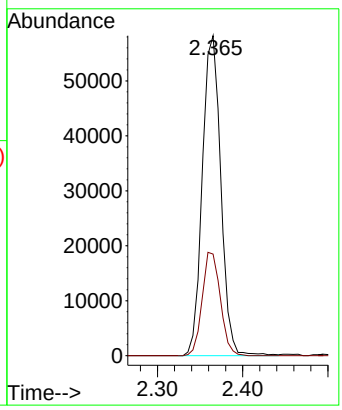




#3
Chloromethane
Concen: 49.045 ug/l
RT: 2.365 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 50 Resp: 8793

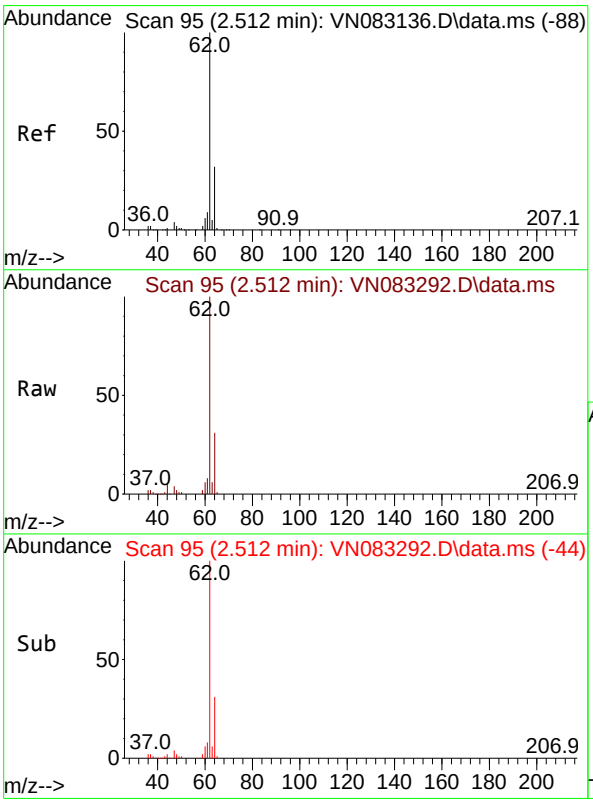
Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

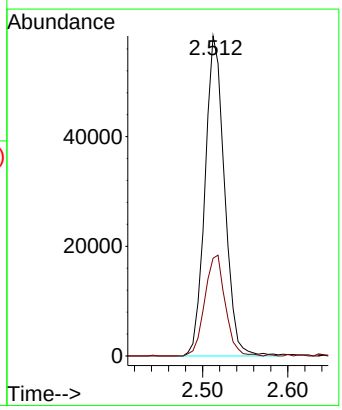
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

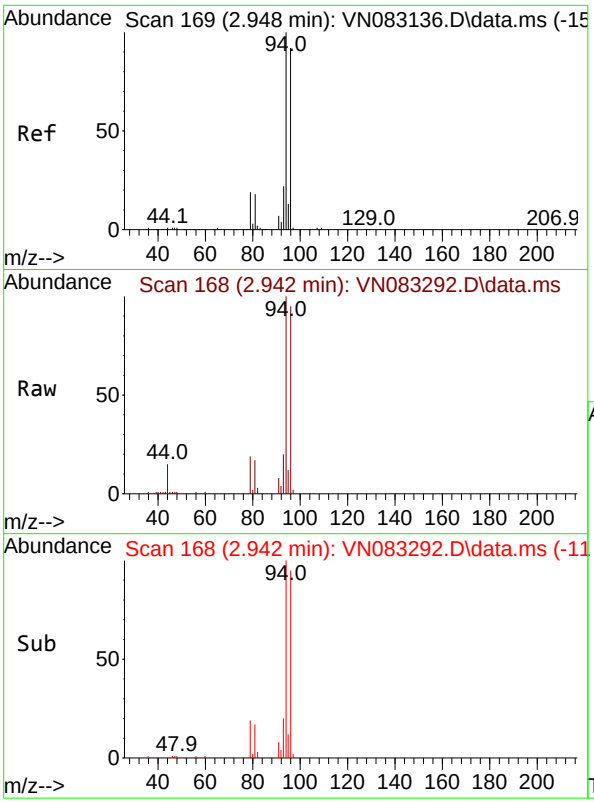


#4
Vinyl Chloride
Concen: 50.781 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 62 Resp: 92901

Ion	Ratio	Lower	Upper
62	100		
64	30.5	25.0	37.6

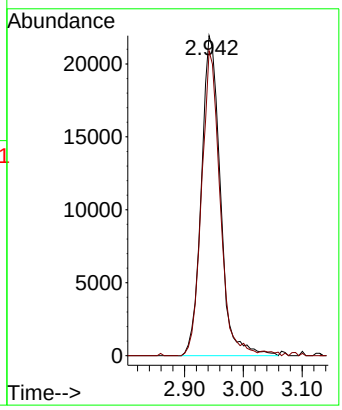




#5
Bromomethane
Concen: 43.457 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 94 Resp: 4933

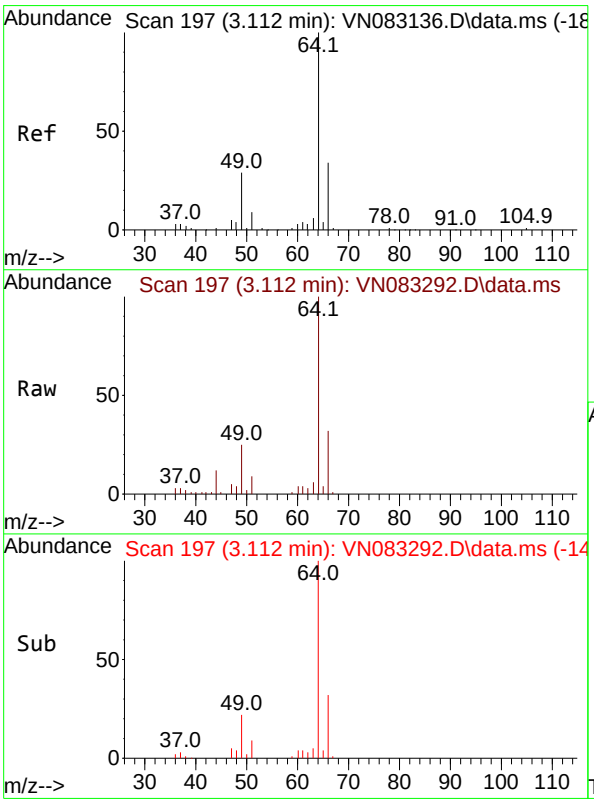
Ion	Ratio	Lower	Upper
94	100		
96	95.3	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

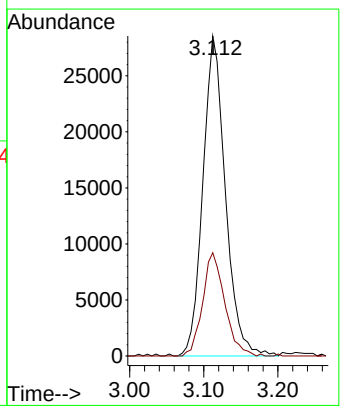
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

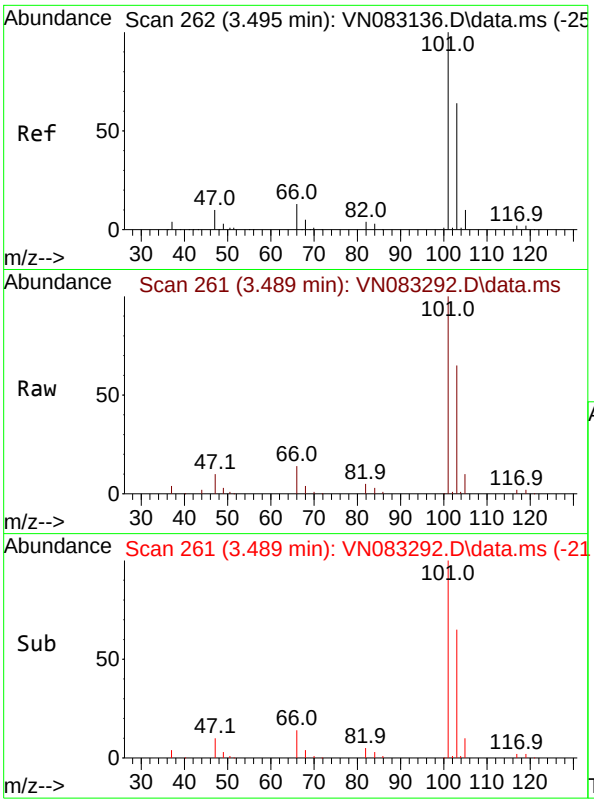


#6
Chloroethane
Concen: 52.719 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 64 Resp: 60341

Ion	Ratio	Lower	Upper
64	100		
66	32.3	26.6	40.0





#7
Trichlorofluoromethane
Concen: 52.142 ug/l
RT: 3.489 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

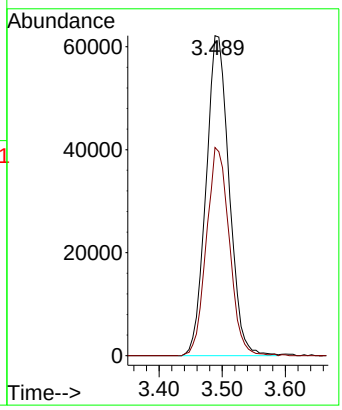
Tgt Ion:101 Resp: 15758

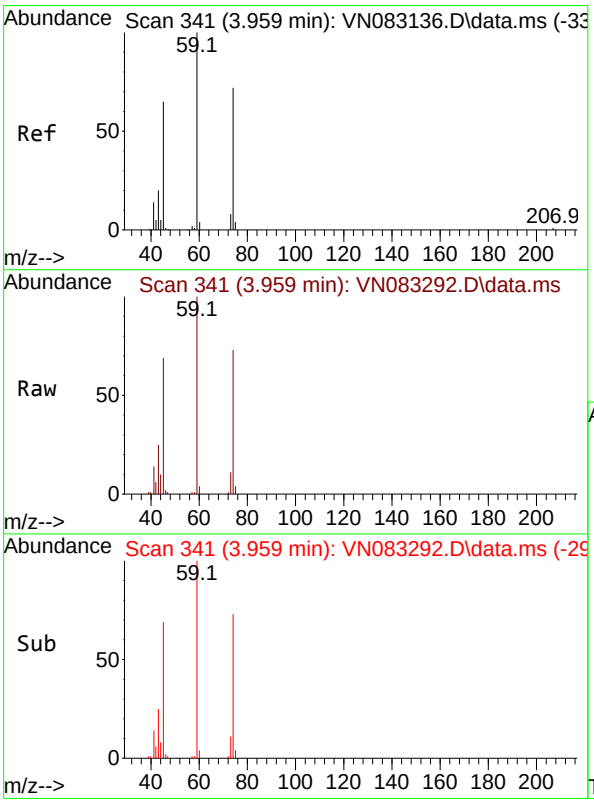
Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

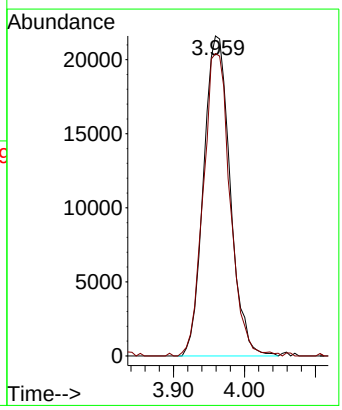


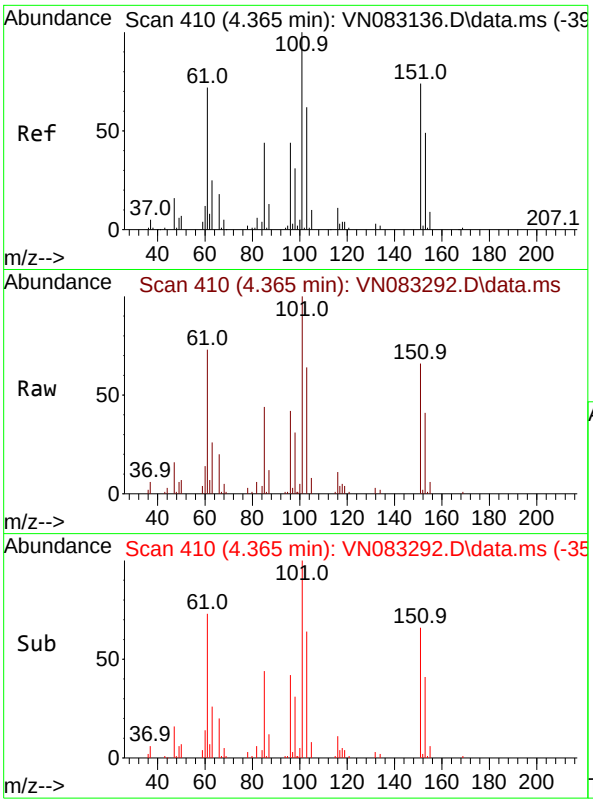


#8
Diethyl Ether
Concen: 49.727 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 74 Resp: 55923

Ion	Ratio	Lower	Upper
74	100		
45	95.6	55.5	166.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.794 ug/l
RT: 4.365 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

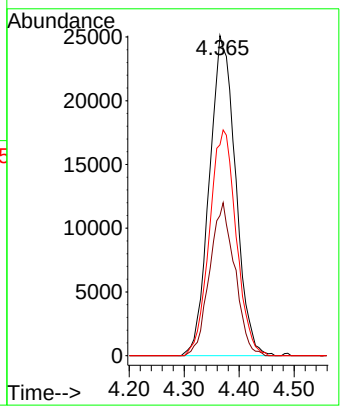
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

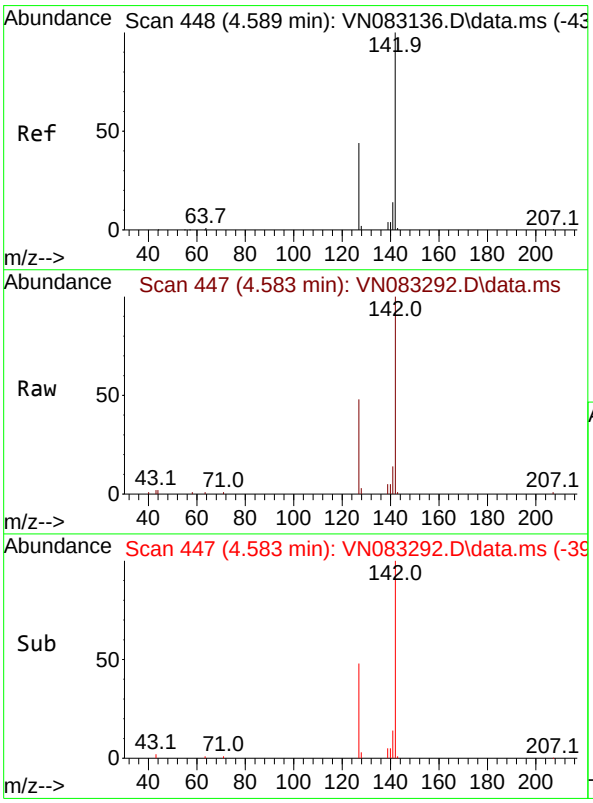
Tgt Ion:101 Resp: 8297

Ion	Ratio	Lower	Upper
101	100		
85	45.9	38.3	57.5
151	72.1	59.3	88.9

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

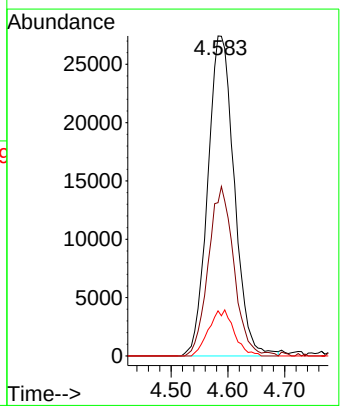


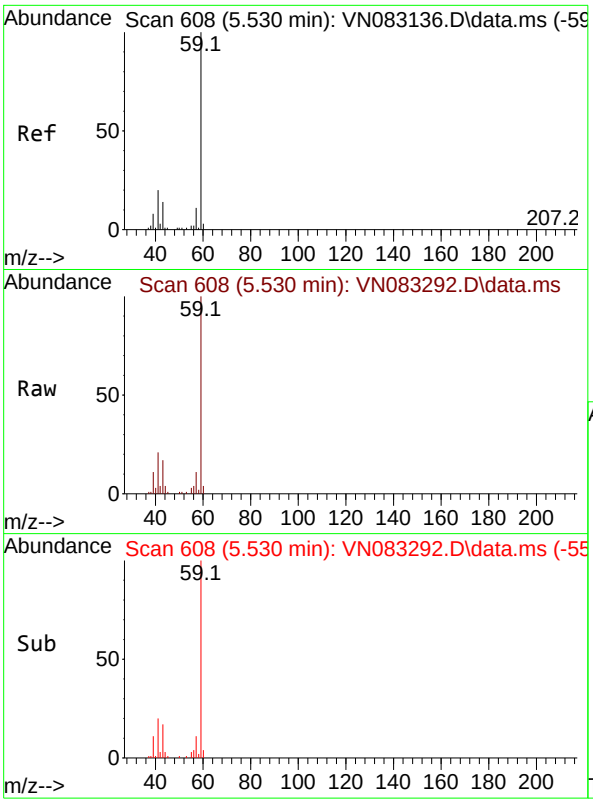


#10
Methyl Iodide
Concen: 40.486 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:142 Resp: 88739

Ion	Ratio	Lower	Upper
142	100		
127	47.9	37.5	56.3
141	14.1	13.1	19.7

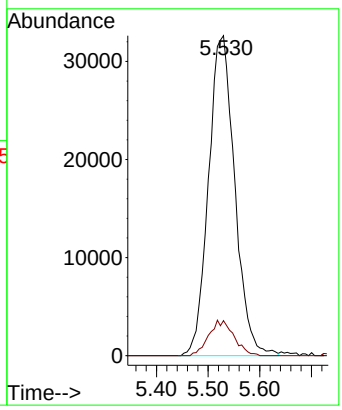




#11
Tert butyl alcohol
Concen: 252.095 ug/l
RT: 5.530 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 59 Resp: 11515

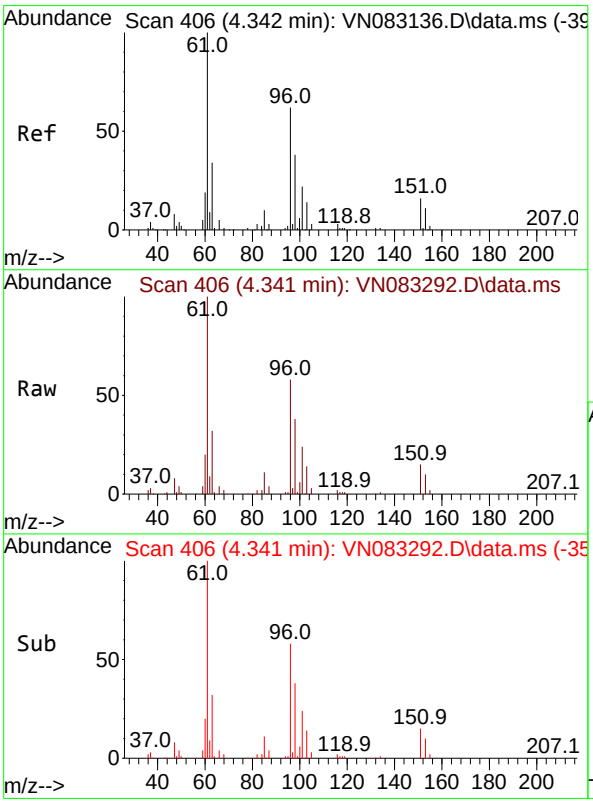
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

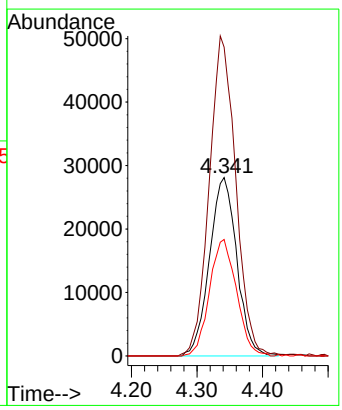
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

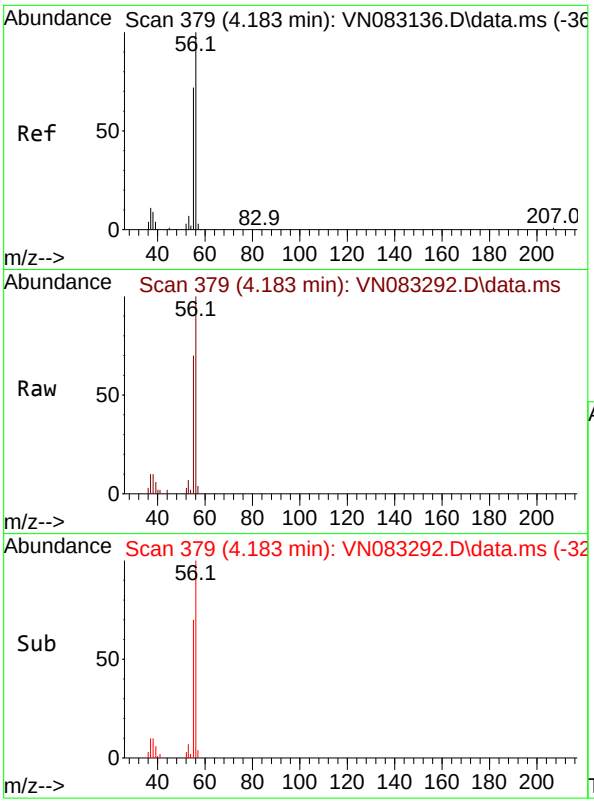


#12
1,1-Dichloroethene
Concen: 47.596 ug/l
RT: 4.341 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 96 Resp: 81479

Ion	Ratio	Lower	Upper
96	100		
61	173.1	149.7	224.5
98	65.3	50.1	75.1

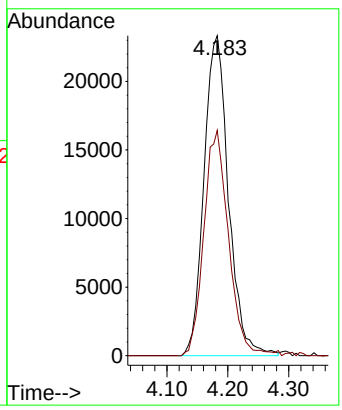




#13
Acrolein
Concen: 219.430 ug/l
RT: 4.183 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 56 Resp: 6532

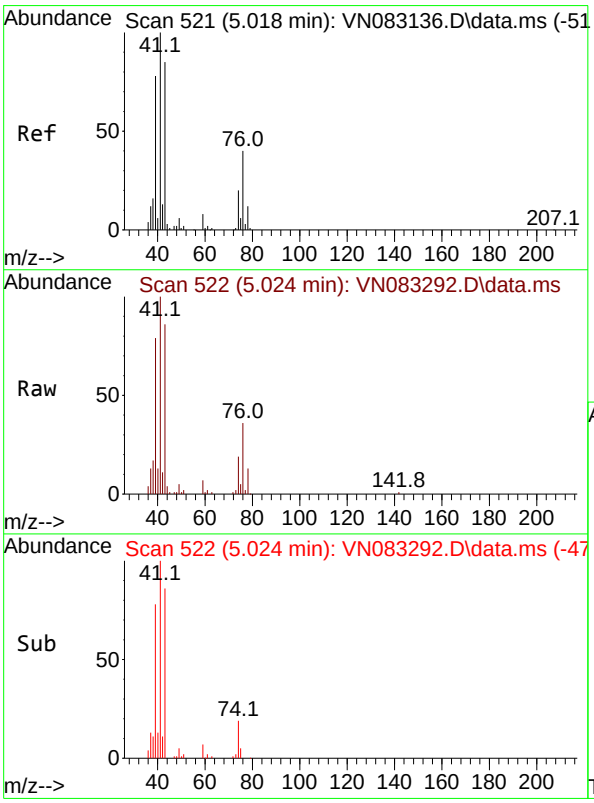
Ion	Ratio	Lower	Upper
56	100		
55	70.9	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

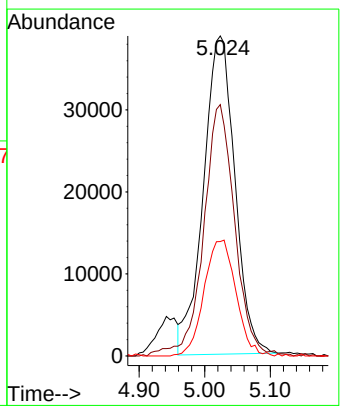
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

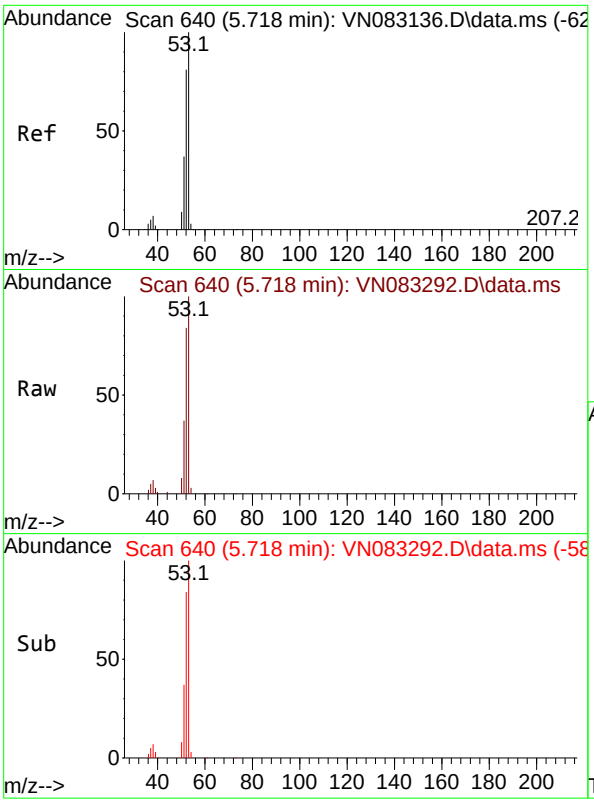


#14
Allyl chloride
Concen: 40.002 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 41 Resp: 129406

Ion	Ratio	Lower	Upper
41	100		
39	78.2	67.8	101.6
76	36.8	25.8	38.8

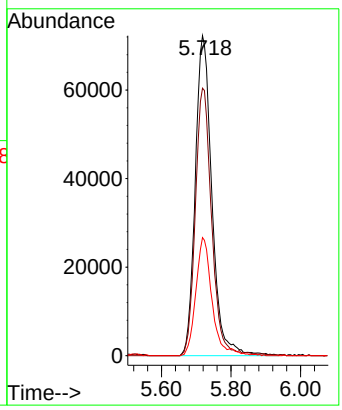




#15
Acrylonitrile
Concen: 255.942 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 53 Resp: 24045

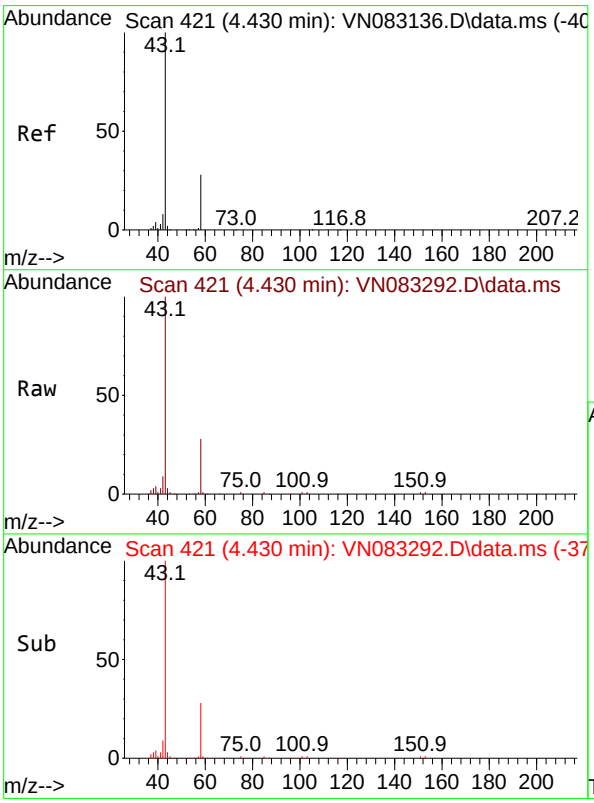
Ion	Ratio	Lower	Upper
53	100		
52	81.4	66.6	100.0
51	35.8	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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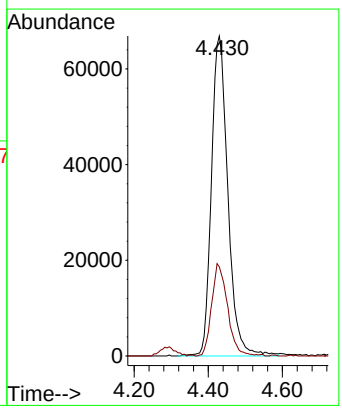
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

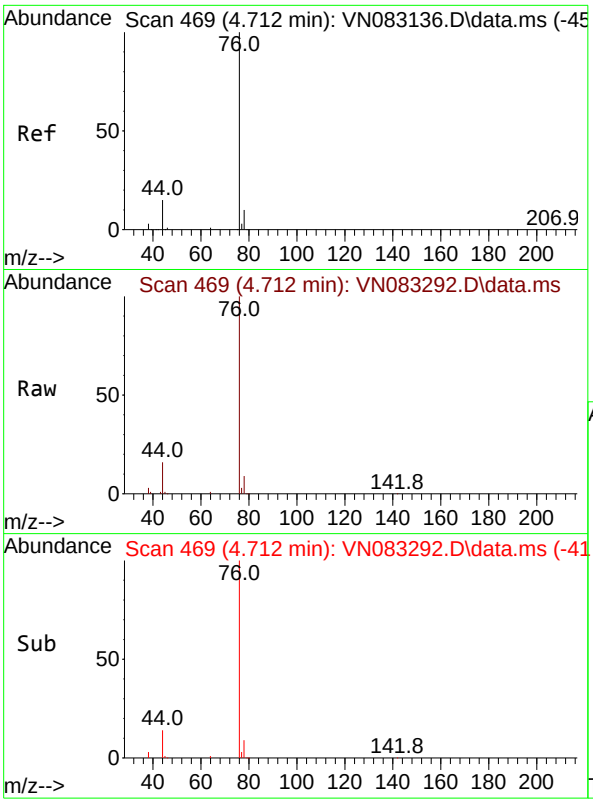


#16
Acetone
Concen: 239.403 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 43 Resp: 205914

Ion	Ratio	Lower	Upper
43	100		
58	27.9	21.8	32.6





#17
Carbon Disulfide
Concen: 41.821 ug/l
RT: 4.712 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

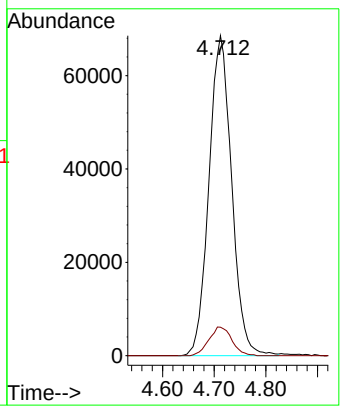
Tgt Ion: 76 Resp: 20947

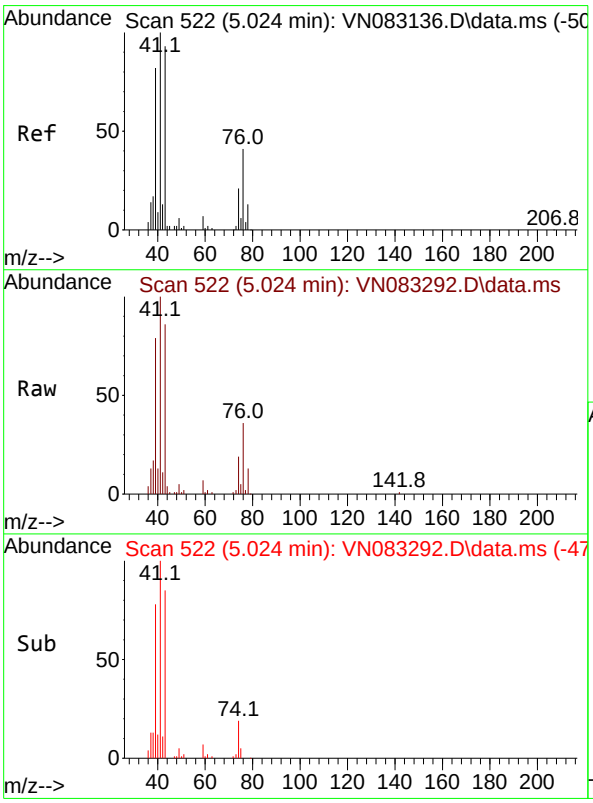
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

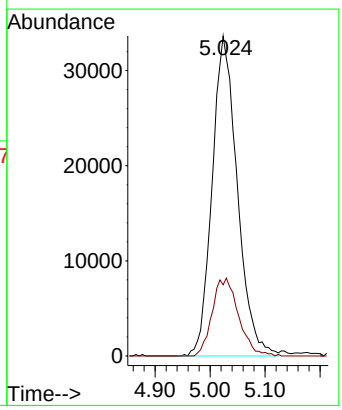


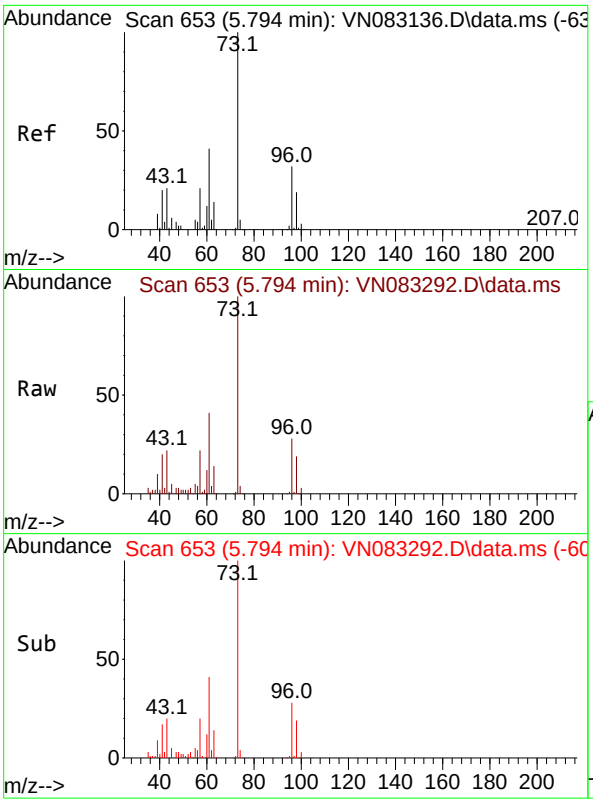


#18
Methyl Acetate
Concen: 41.795 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 43 Resp: 107105

Ion	Ratio	Lower	Upper
43	100		
74	25.4	16.3	24.5#

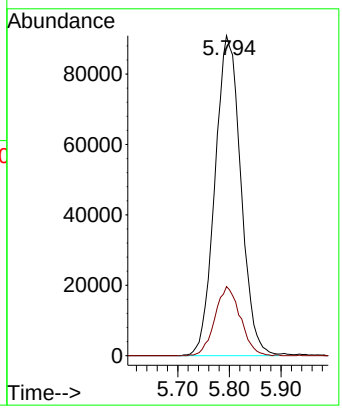




#19
Methyl tert-butyl Ether
Concen: 51.163 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 73 Resp: 31613

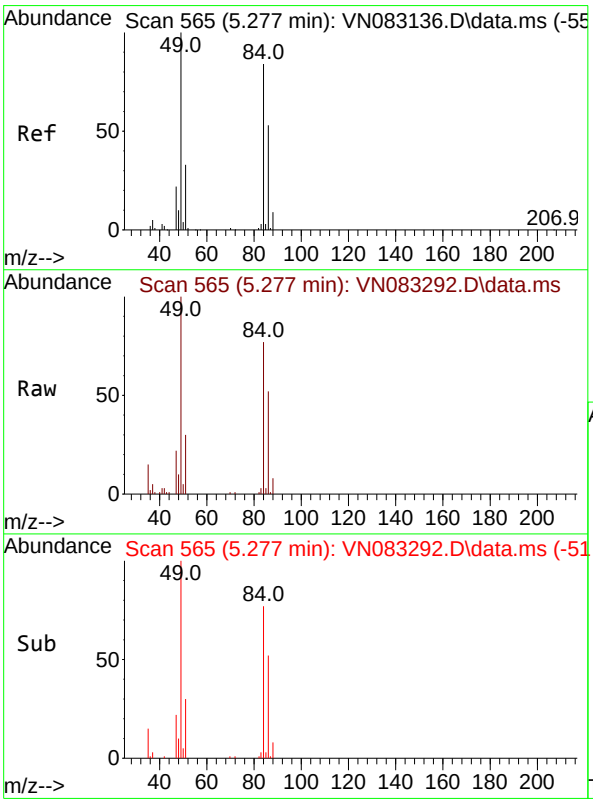
Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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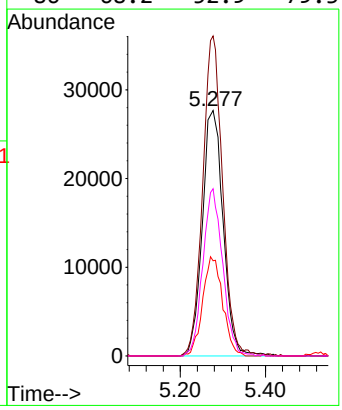
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

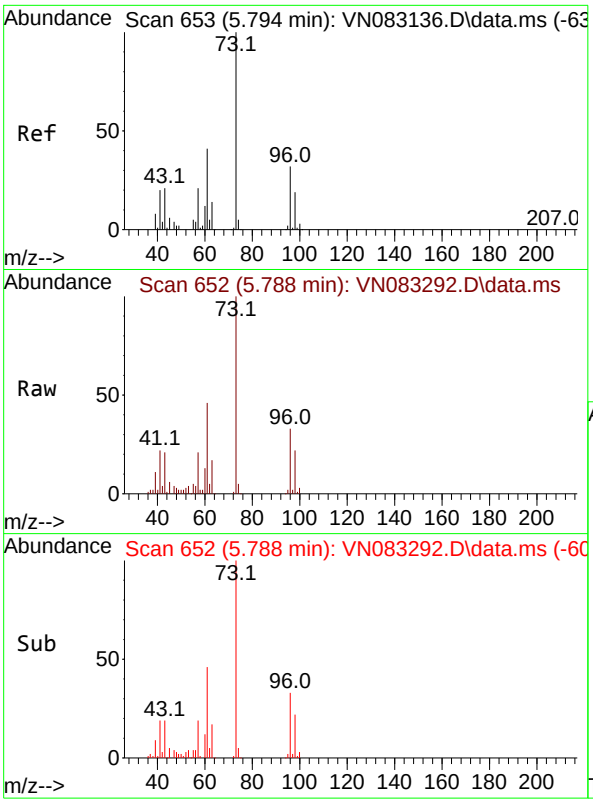


#20
Methylene Chloride
Concen: 47.558 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 84 Resp: 94141

Ion	Ratio	Lower	Upper
84	100		
49	130.4	119.6	179.4
51	38.8	34.8	52.2
86	68.2	52.9	79.3





#21
trans-1,2-Dichloroethene
Concen: 48.172 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

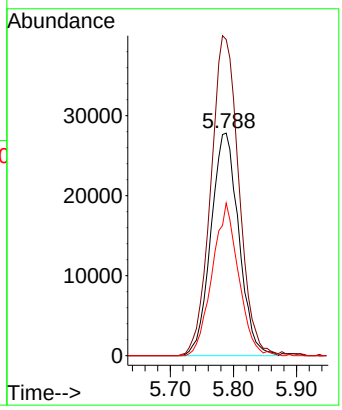
Tgt Ion: 96 Resp: 8523

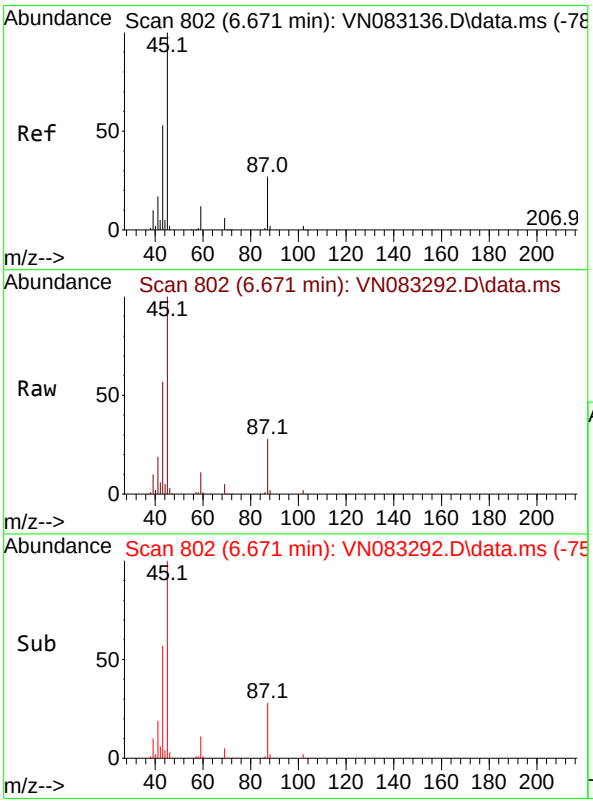
Ion	Ratio	Lower	Upper
96	100		
61	142.1	123.4	185.2
98	68.6	49.3	73.9

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

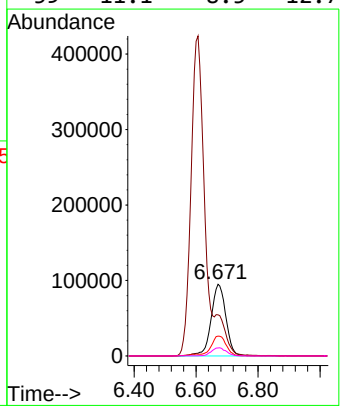


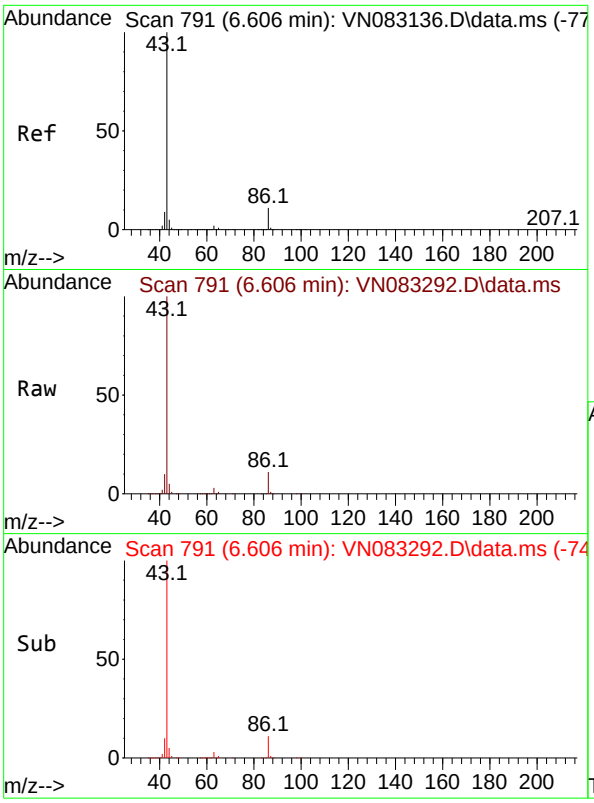


#22
Diisopropyl ether
Concen: 51.811 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 45 Resp: 315055

Ion	Ratio	Lower	Upper
45	100		
43	56.9	44.0	66.0
87	27.6	19.7	29.5
59	11.1	8.5	12.7





#23
Vinyl Acetate
Concen: 200.144 ug/l
RT: 6.606 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

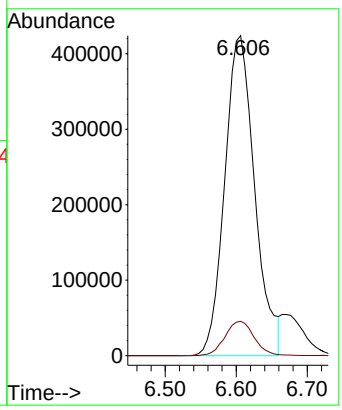
Tgt Ion: 43 Resp: 124746

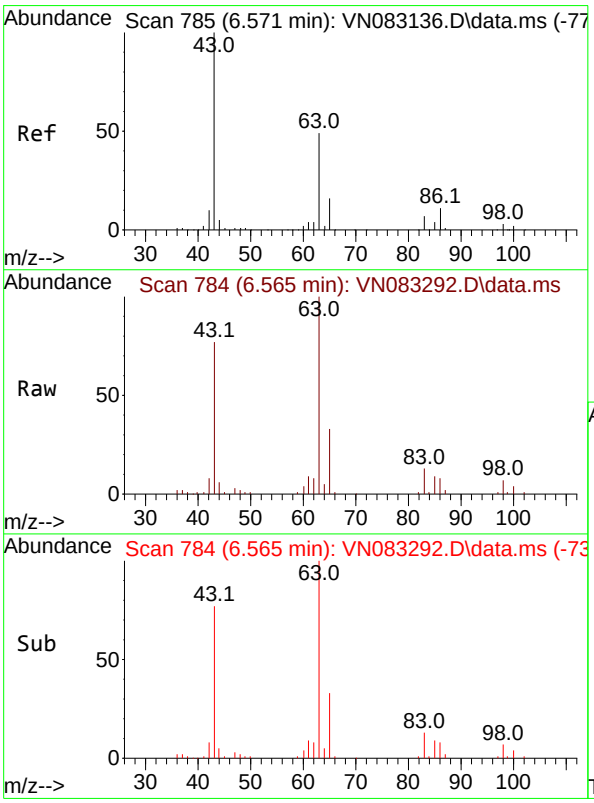
Ion	Ratio	Lower	Upper
43	100		
86	10.7	7.3	10.9

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

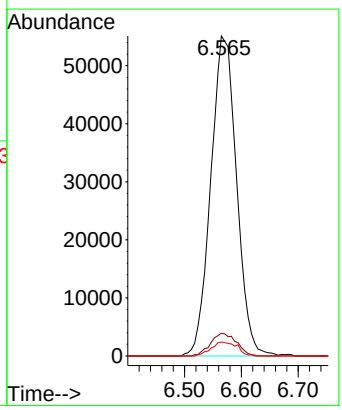


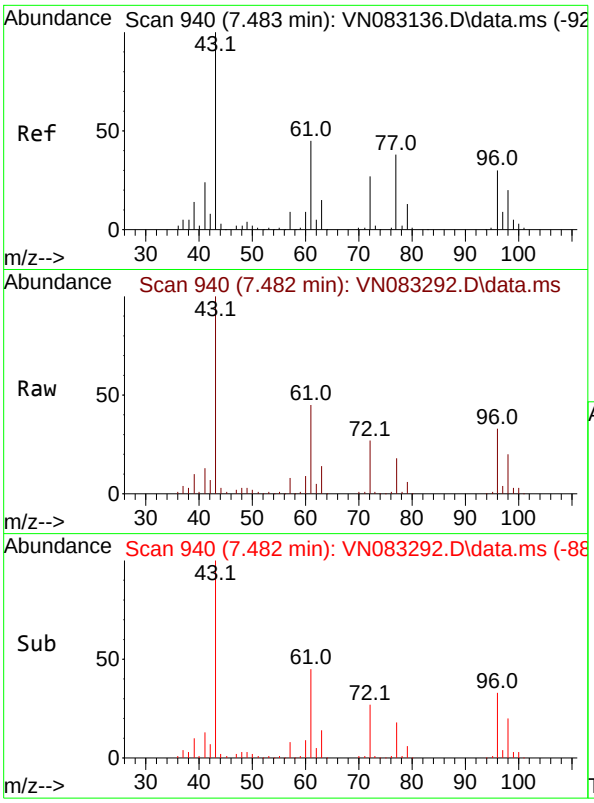


#24
1,1-Dichloroethane
Concen: 52.534 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 63 Resp: 174125

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.3	9.9
100	4.4	2.0	6.0





#25
2-Butanone
Concen: 240.896 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

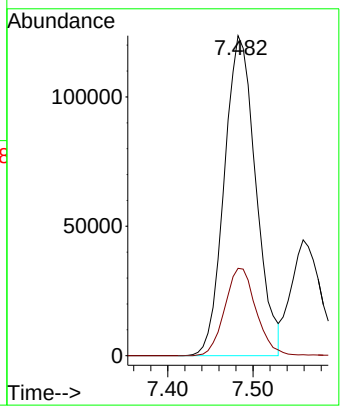
Tgt Ion: 43 Resp: 31814

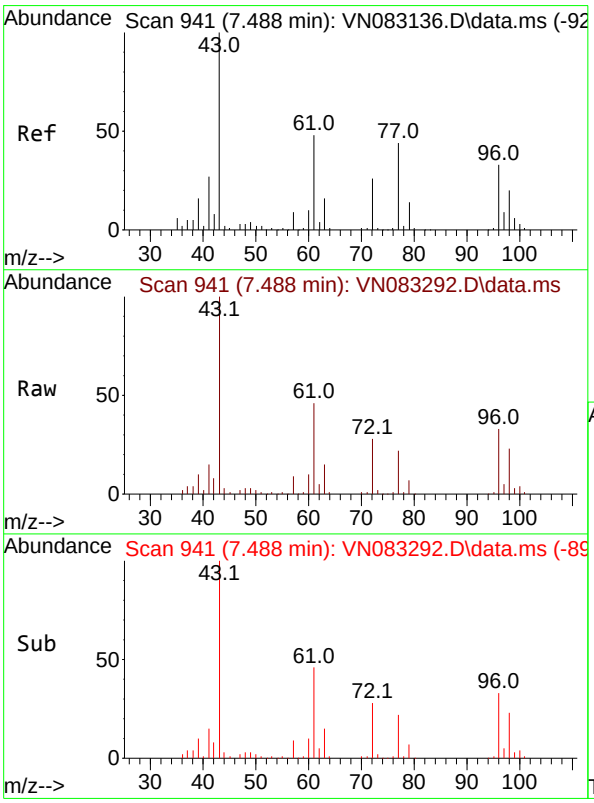
Ion	Ratio	Lower	Upper
43	100		
72	27.3	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

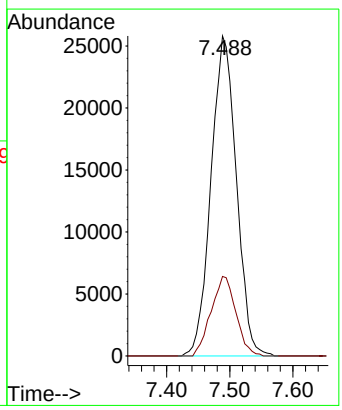


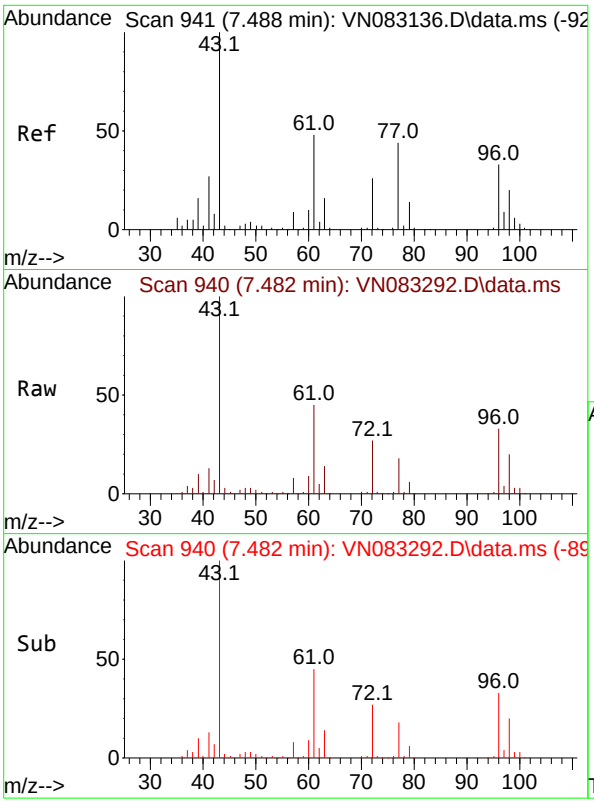


#26
2,2-Dichloropropane
Concen: 23.377 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 77 Resp: 71957

Ion	Ratio	Lower	Upper
77	100		
97	24.3	10.3	30.9





#27
cis-1,2-Dichloroethene
Concen: 50.254 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

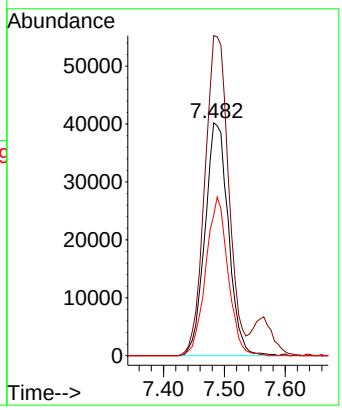
Tgt Ion: 96 Resp: 10729

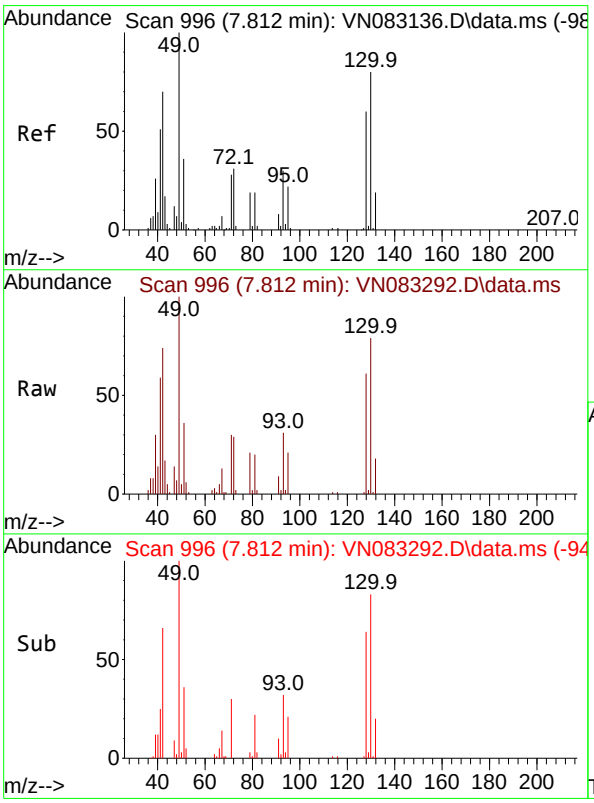
Ion	Ratio	Lower	Upper
96	100		
61	139.6	0.0	329.6
98	64.8	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

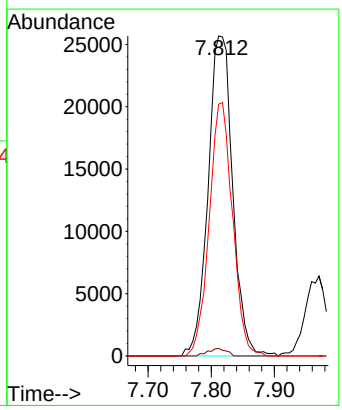


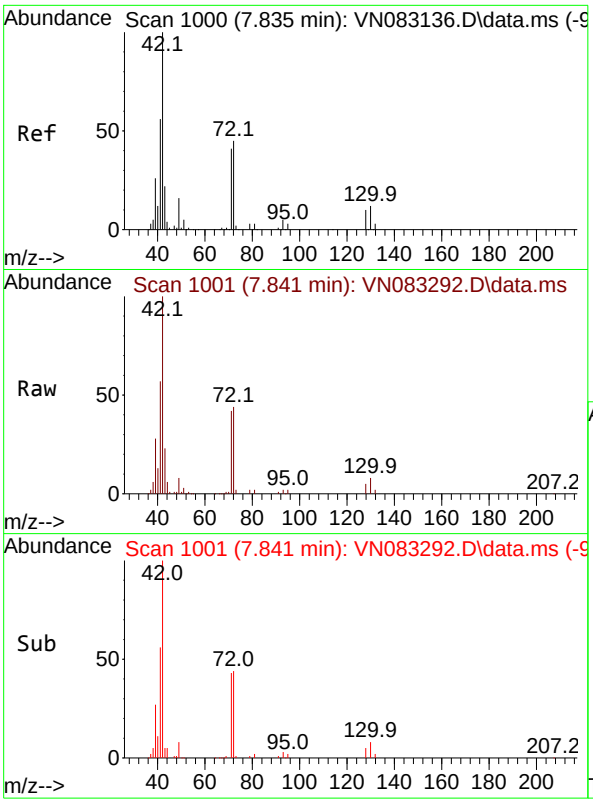


#28
Bromochloromethane
Concen: 51.301 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 49 Resp: 69489

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	75.0	50.5	75.7

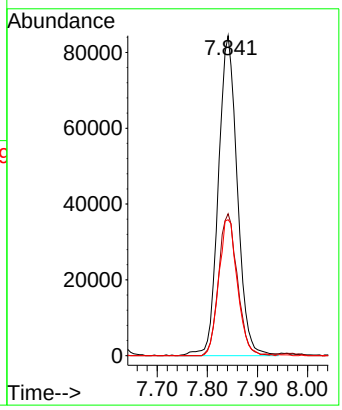




#29
Tetrahydrofuran
Concen: 258.947 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 42 Resp: 22107

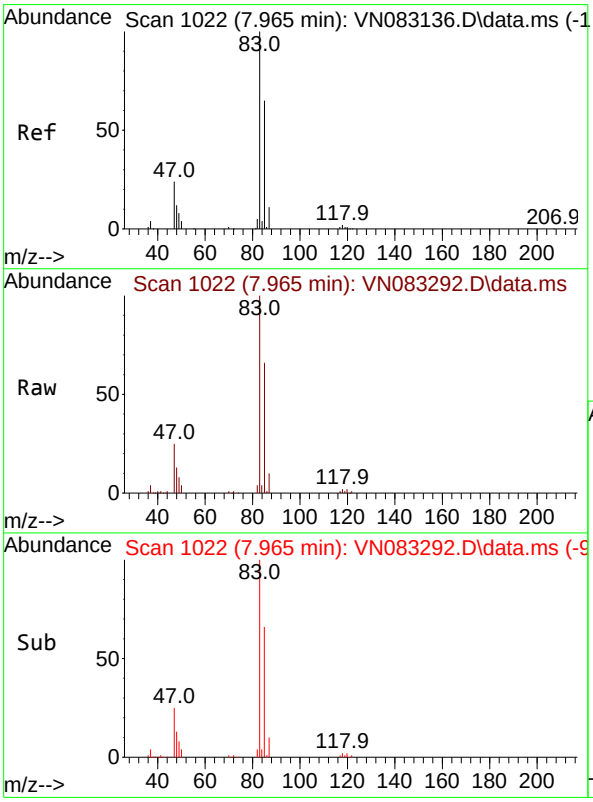
Ion	Ratio	Lower	Upper
42	100		
72	44.0	30.0	45.0
71	42.2	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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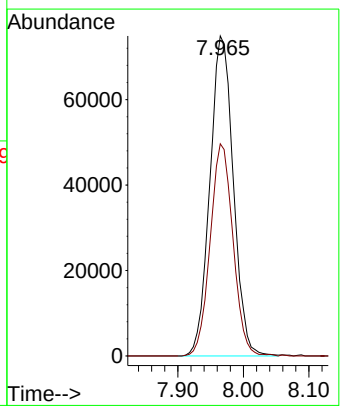
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

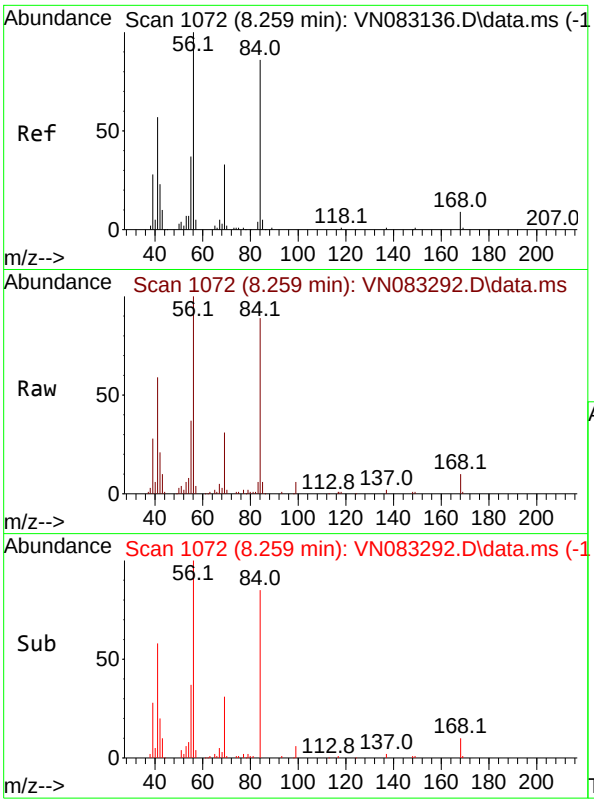


#30
Chloroform
Concen: 53.925 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 83 Resp: 185692

Ion	Ratio	Lower	Upper
83	100		
85	66.3	50.9	76.3

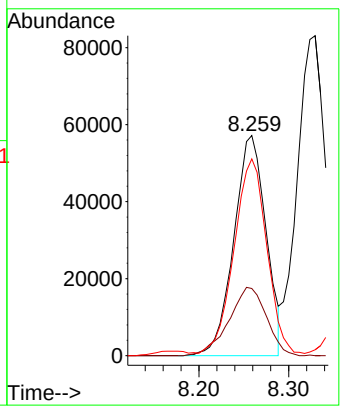




#31
Cyclohexane
Concen: 43.680 ug/l
RT: 8.259 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 56 Resp: 14228

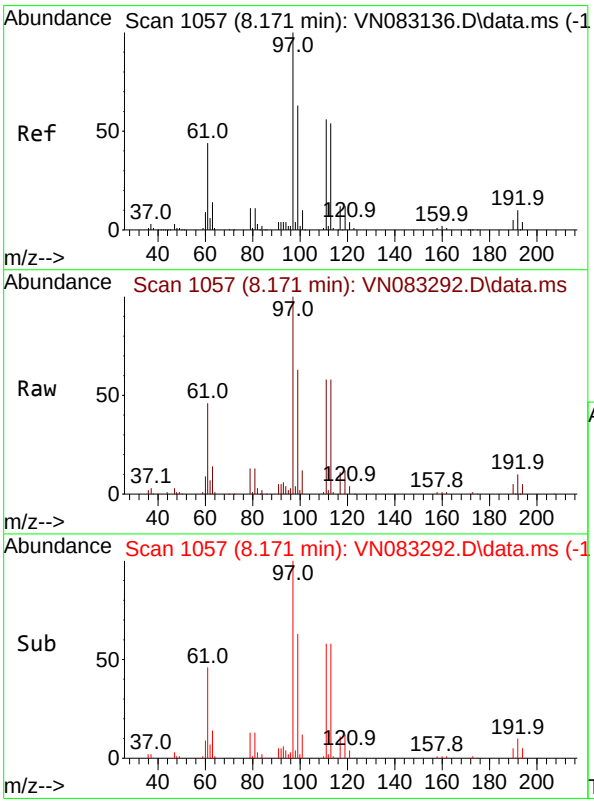
Ion	Ratio	Lower	Upper
56	100		
69	30.5	24.5	36.7
84	87.4	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

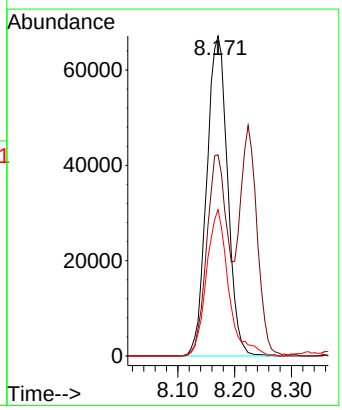
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

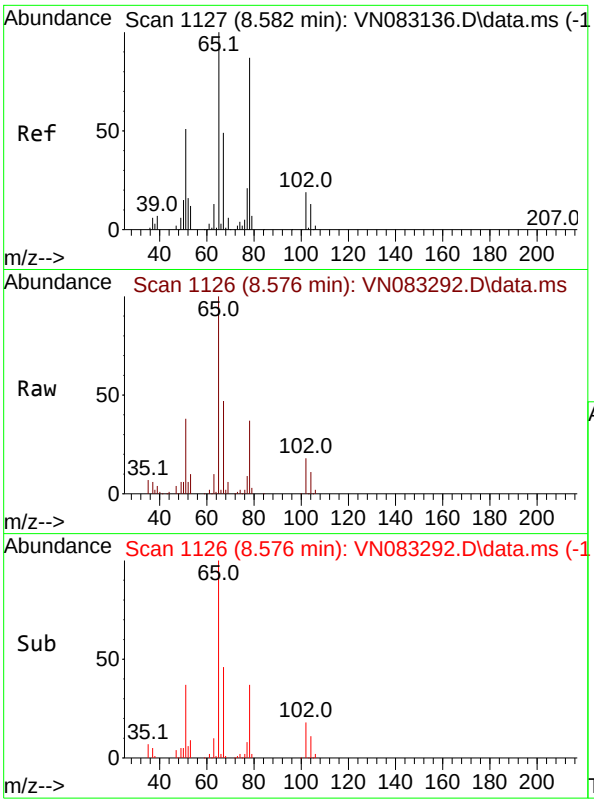


#32
1,1,1-Trichloroethane
Concen: 52.413 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 97 Resp: 170836

Ion	Ratio	Lower	Upper
97	100		
99	61.2	52.0	78.0
61	48.4	42.1	63.1





#33
1,2-Dichloroethane-d4
Concen: 59.217 ug/l
RT: 8.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

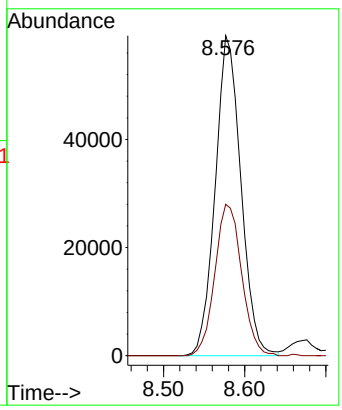
Tgt Ion: 65 Resp: 13016

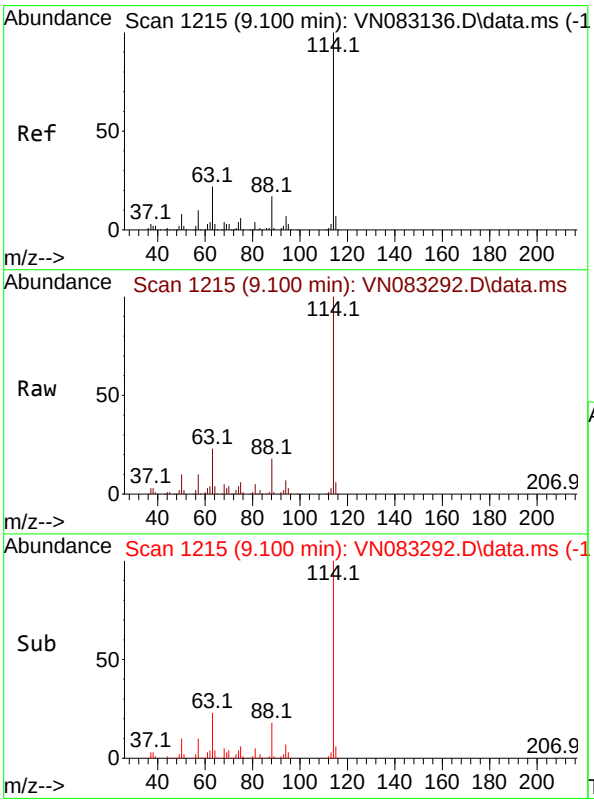
Ion	Ratio	Lower	Upper
65	100		
67	49.3	0.0	104.4

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

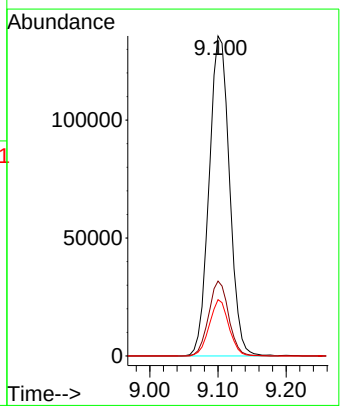


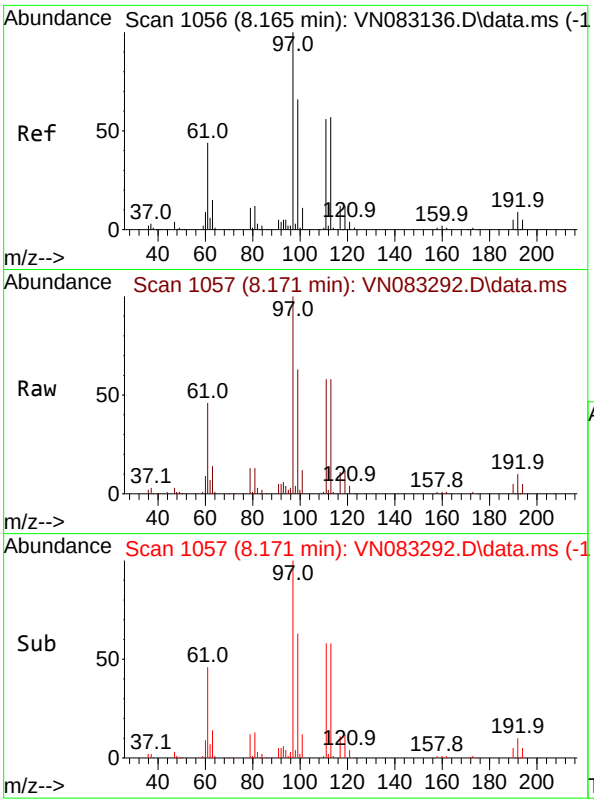


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:114 Resp: 282107

Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	44.6
88	17.6	0.0	31.4

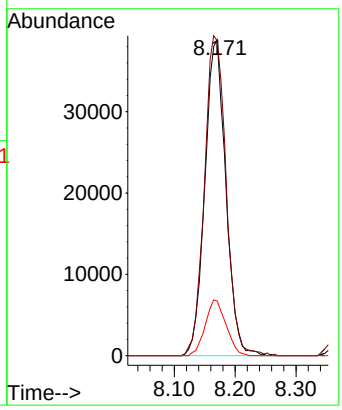




#35
Dibromofluoromethane
Concen: 52.724 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

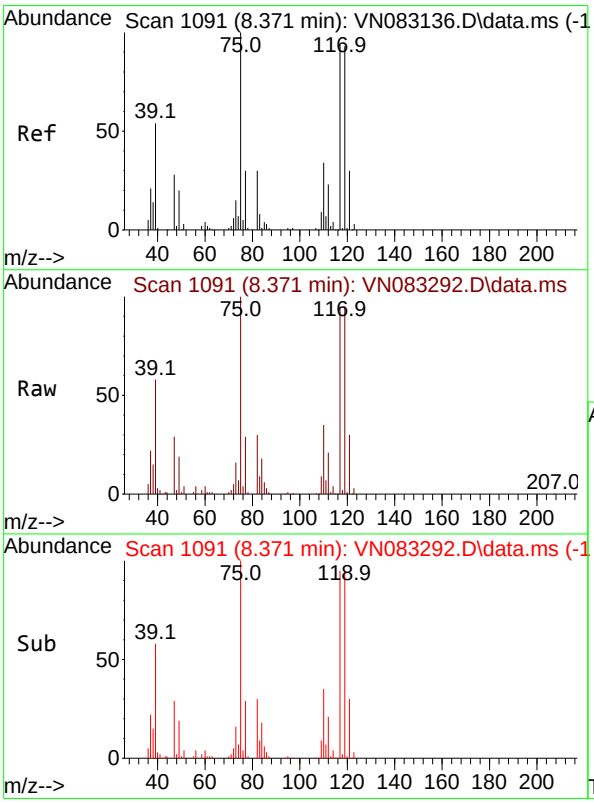
Tgt Ion:113 Resp: 9284

Ion	Ratio	Lower	Upper
113	100		
111	104.8	82.4	123.6
192	17.5	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

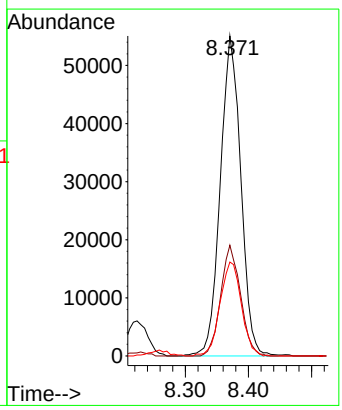
Manual Integrations
APPROVED
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

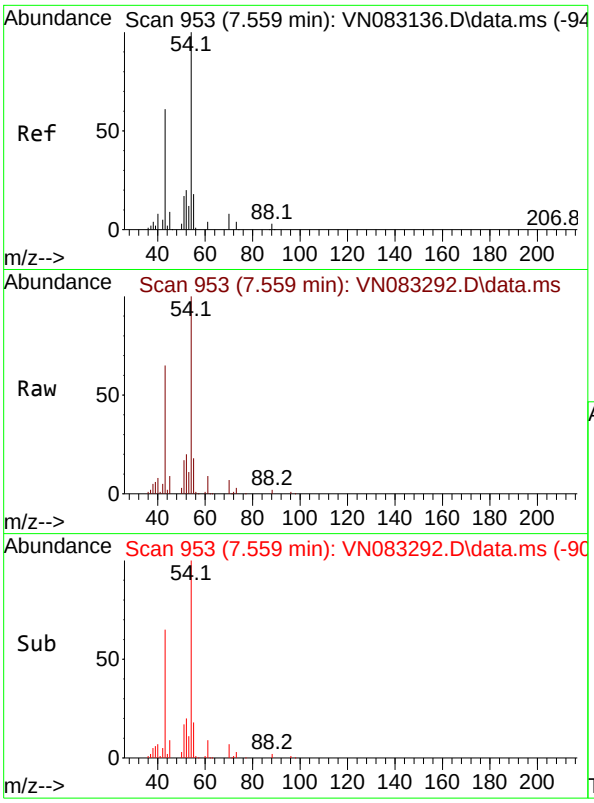


#36
1,1-Dichloropropene
Concen: 46.751 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 75 Resp: 124531

Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.3	48.9
77	30.5	24.6	37.0





#37
Ethyl Acetate
Concen: 37.043 ug/l
RT: 7.559 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

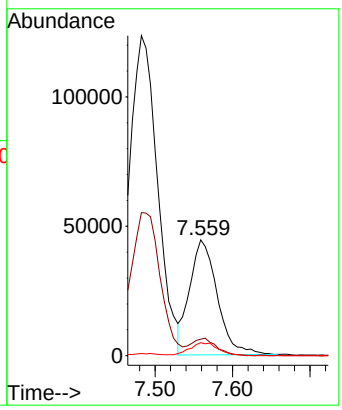
Tgt Ion: 43 Resp: 11047

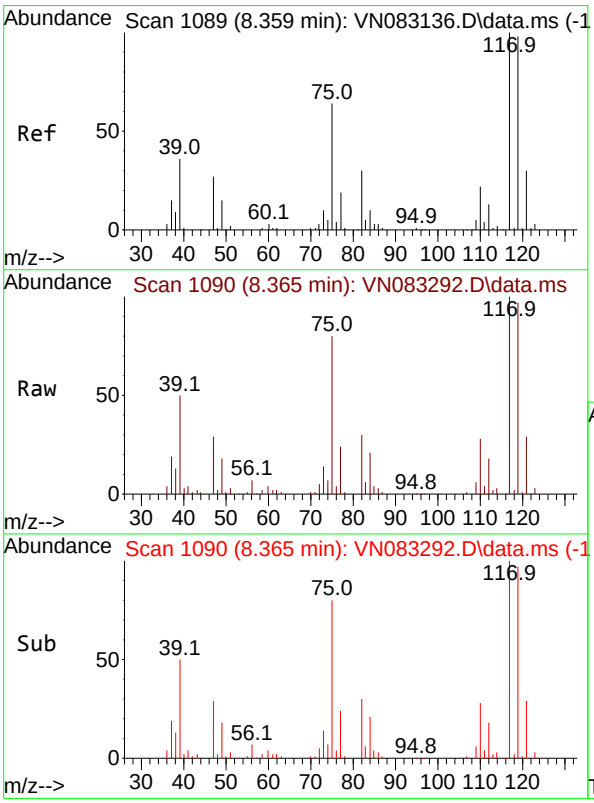
Ion	Ratio	Lower	Upper
43	100		
61	14.1	9.3	13.9#
70	11.6	7.0	10.6#

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

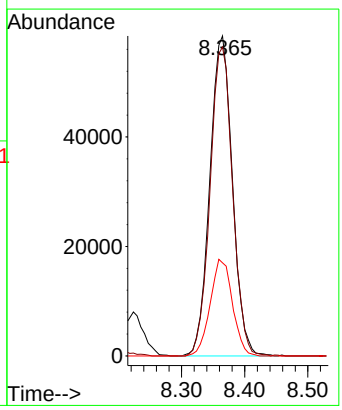


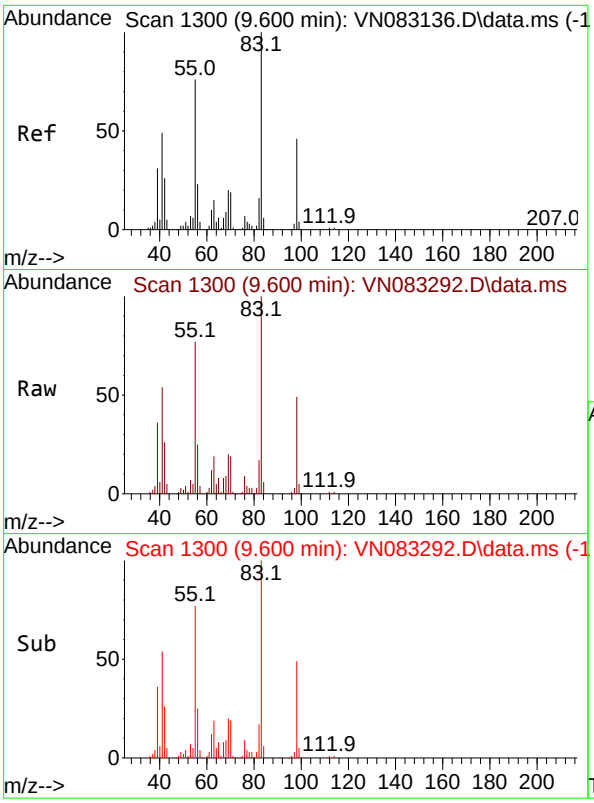


#38
Carbon Tetrachloride
Concen: 48.402 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:117 Resp: 145214

Ion	Ratio	Lower	Upper
117	100		
119	96.5	74.9	112.3
121	29.1	24.3	36.5





#39
Methylcyclohexane
Concen: 42.635 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

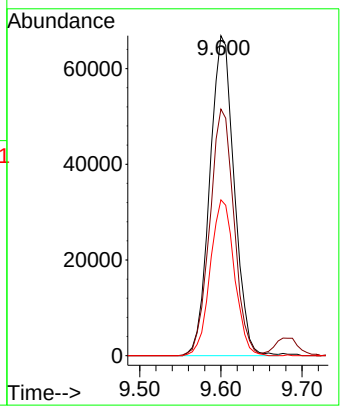
Tgt Ion: 83 Resp: 13948

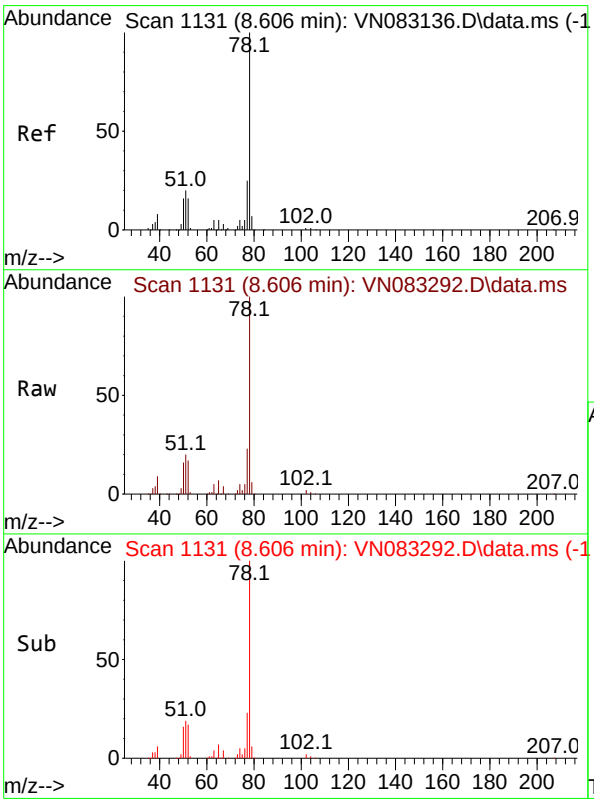
Ion	Ratio	Lower	Upper
83	100		
55	77.1	66.4	99.6
98	48.7	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

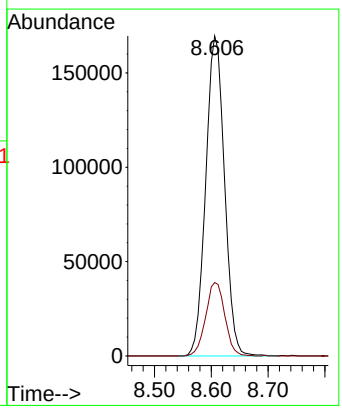


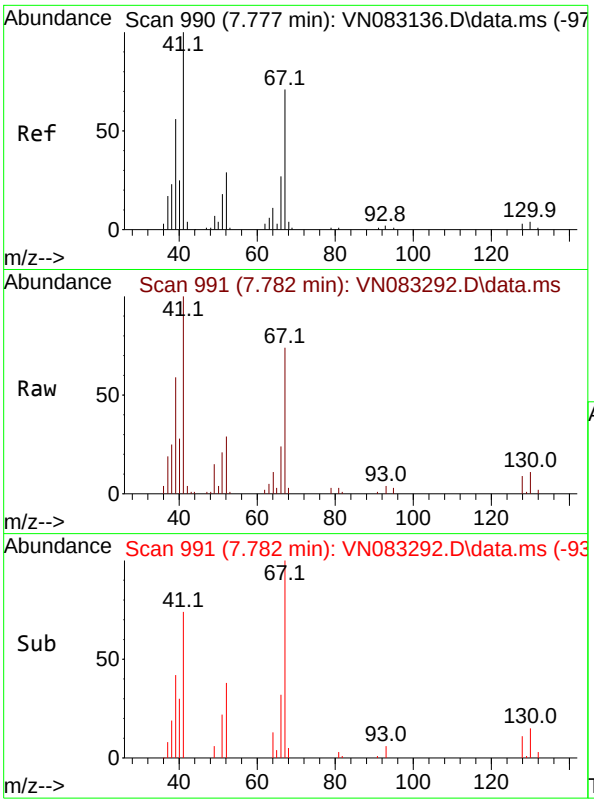


#40
Benzene
Concen: 48.951 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 78 Resp: 388435

Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.0	28.4

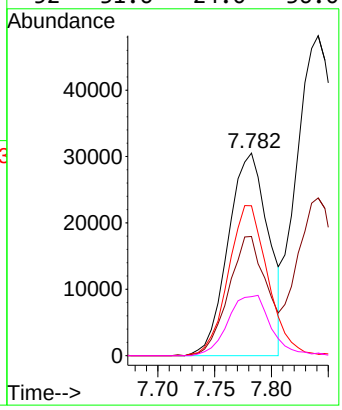




#41
Methacrylonitrile
Concen: 44.404 ug/l
RT: 7.782 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 41 Resp: 7529

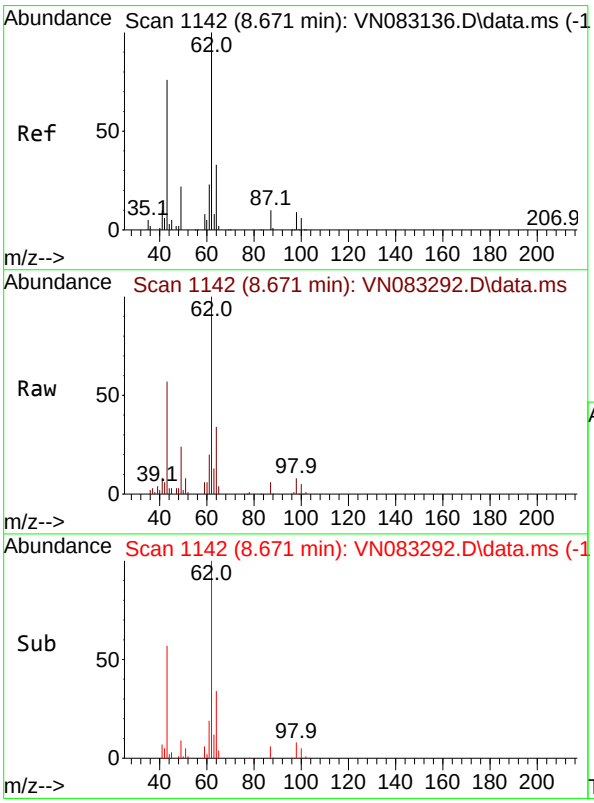
Ion	Ratio	Lower	Upper
41	100		
39	55.9	45.5	68.3
67	73.2	50.5	75.7
52	31.6	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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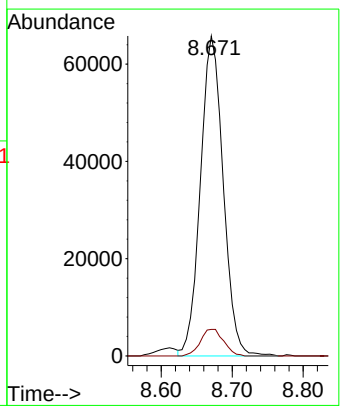
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

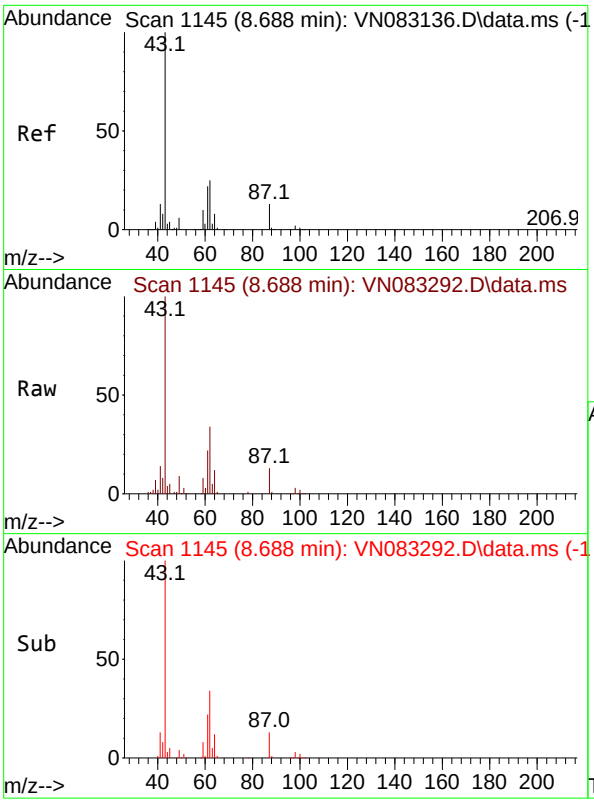


#42
1,2-Dichloroethane
Concen: 50.868 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 62 Resp: 147040

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	15.8





#43
Isopropyl Acetate
Concen: 41.971 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

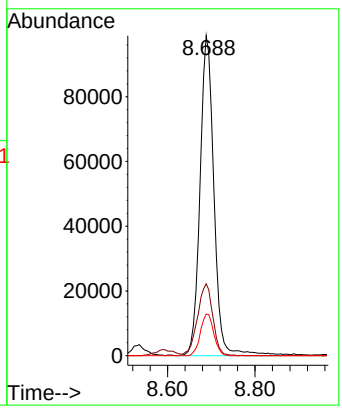
Tgt Ion: 43 Resp: 21965

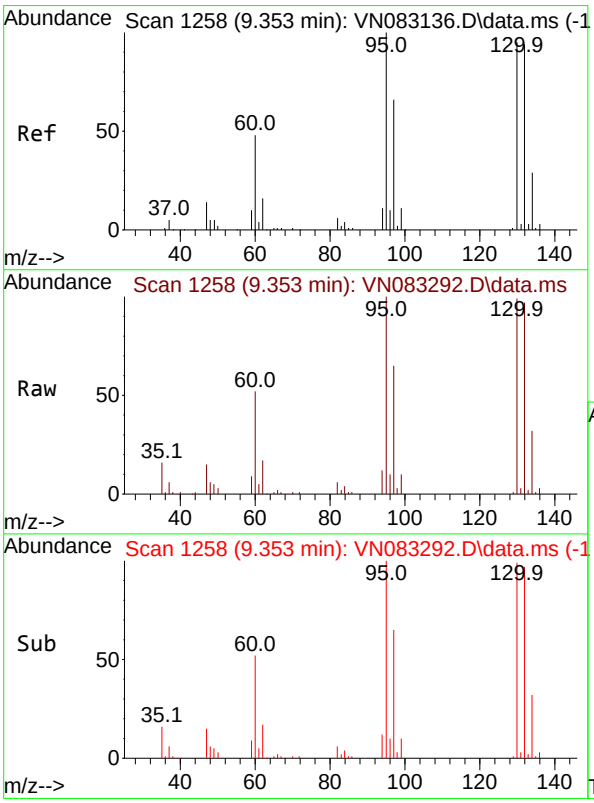
Ion	Ratio	Lower	Upper
43	100		
61	24.5	17.8	26.6
87	12.5	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

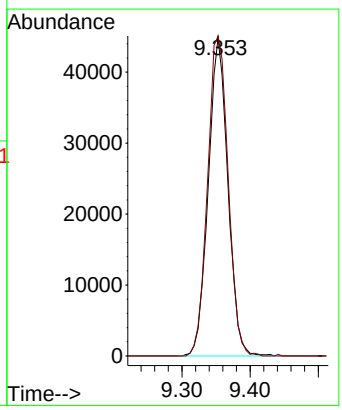


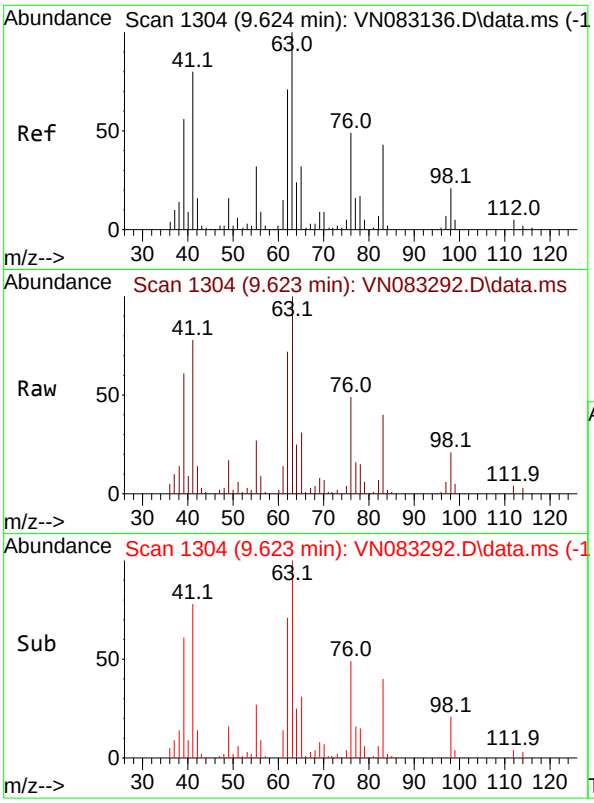


#44
Trichloroethene
Concen: 47.513 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:130 Resp: 89740

Ion	Ratio	Lower	Upper
130	100		
95	100.7	0.0	197.8

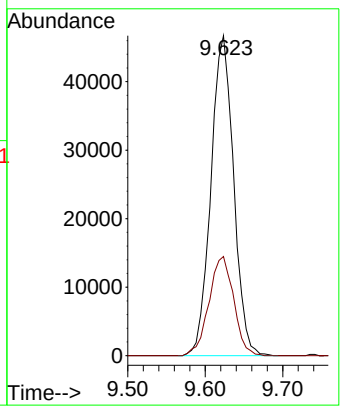




#45
1,2-Dichloropropane
Concen: 50.496 ug/l
RT: 9.623 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 63 Resp: 9511

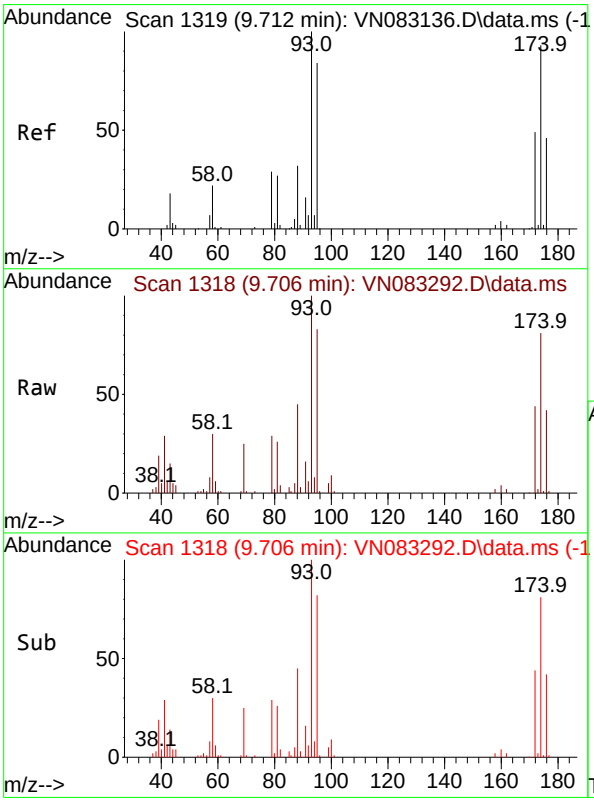
Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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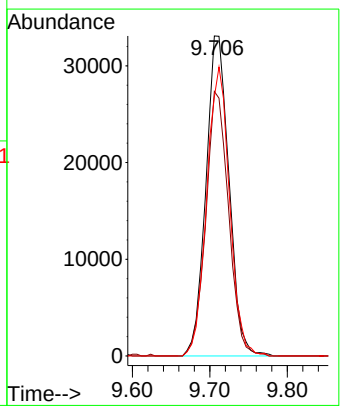
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

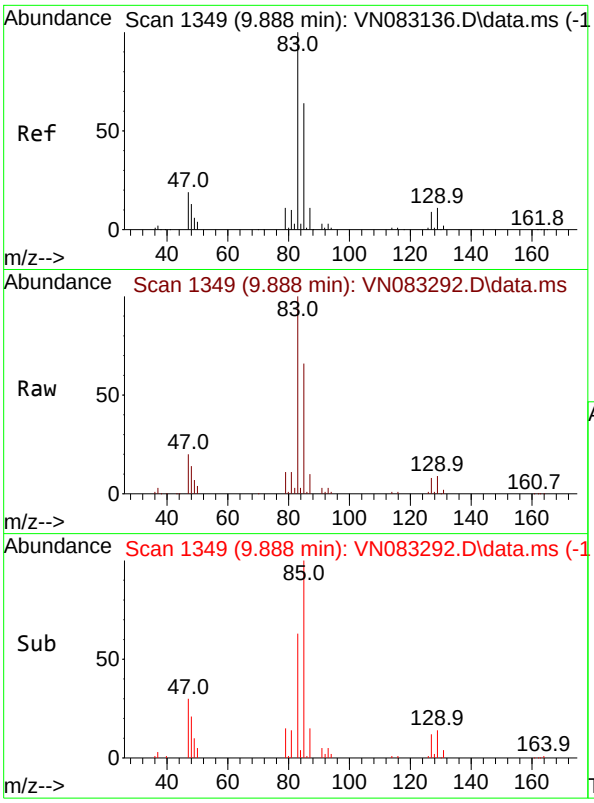


#46
Dibromomethane
Concen: 50.935 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 93 Resp: 68672

Ion	Ratio	Lower	Upper
93	100		
95	81.2	65.8	98.6
174	89.4	71.7	107.5

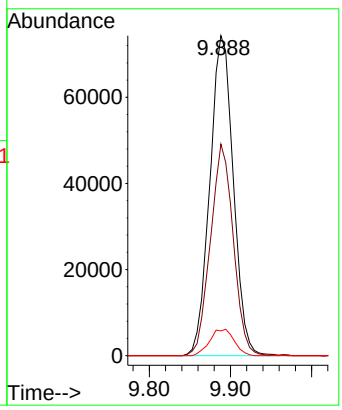




#47
Bromodichloromethane
Concen: 49.276 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 83 Resp: 14916

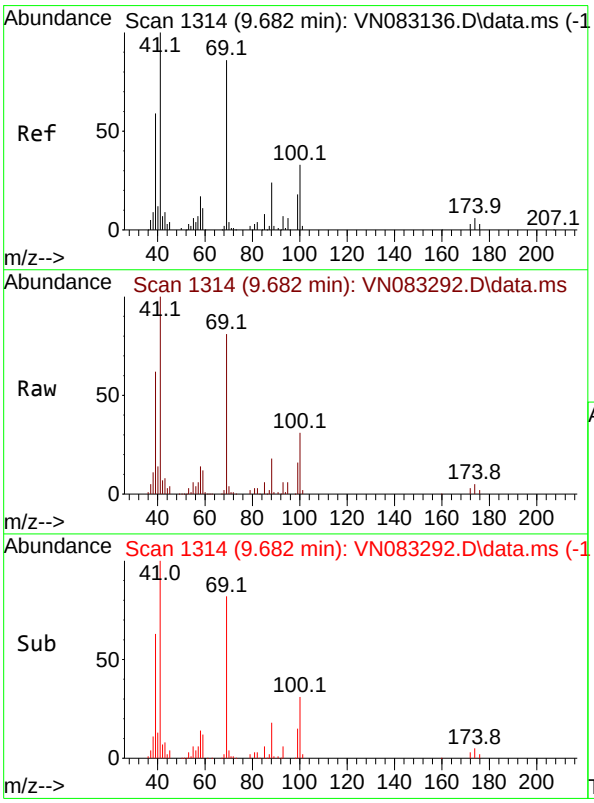
Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.1	76.7
127	7.8	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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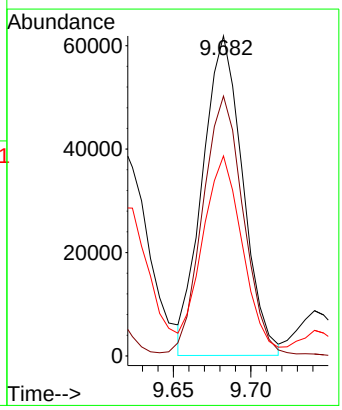
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

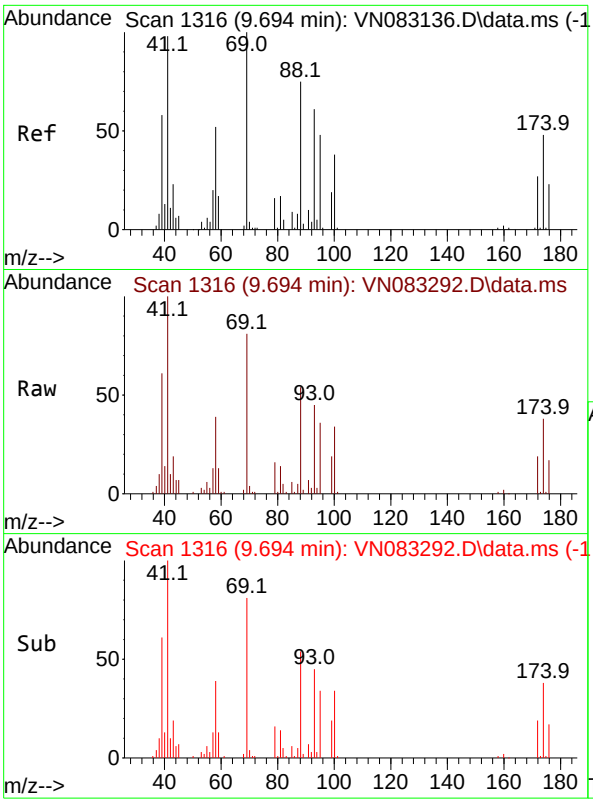


#48
Methyl methacrylate
Concen: 45.176 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 41 Resp: 111391

Ion	Ratio	Lower	Upper
41	100		
69	83.2	56.3	84.5
39	63.2	50.3	75.5





#49
1,4-Dioxane
Concen: 880.677 ug/l
RT: 9.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

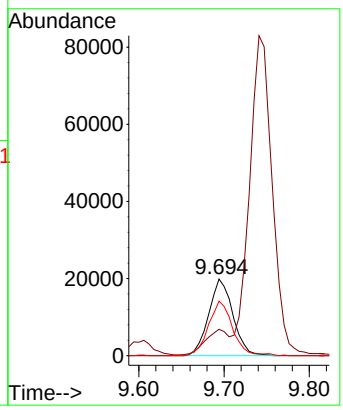
Tgt Ion: 88 Resp: 3917

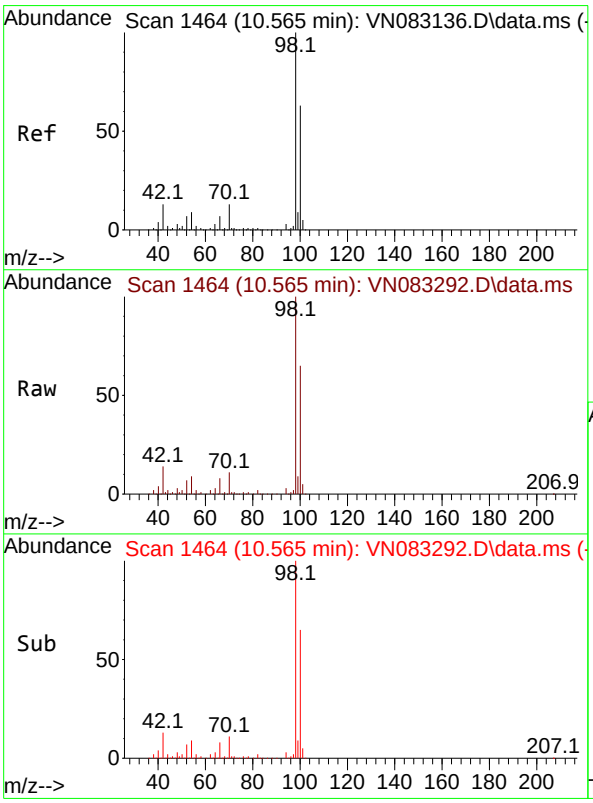
Ion	Ratio	Lower	Upper
88	100		
43	31.9	27.8	41.8
58	71.2	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

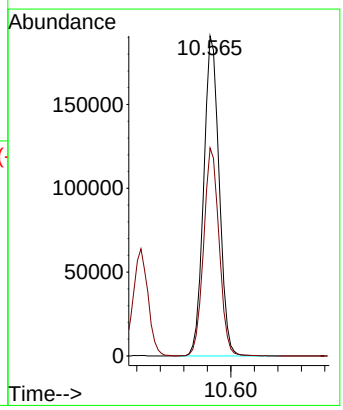


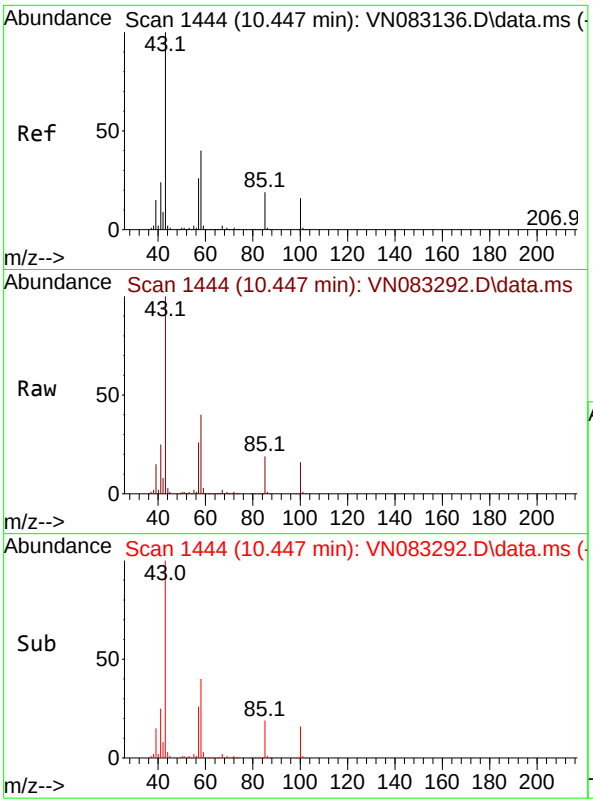


#50
Toluene-d8
Concen: 53.077 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 98 Resp: 348630

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.5	77.3

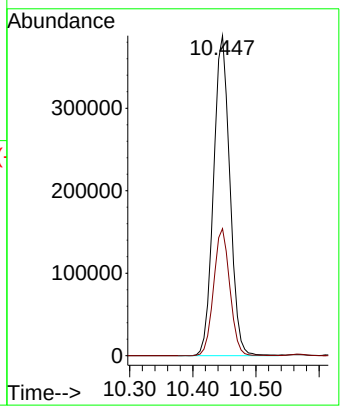




#51
4-Methyl-2-Pentanone
Concen: 246.380 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 43 Resp: 69486

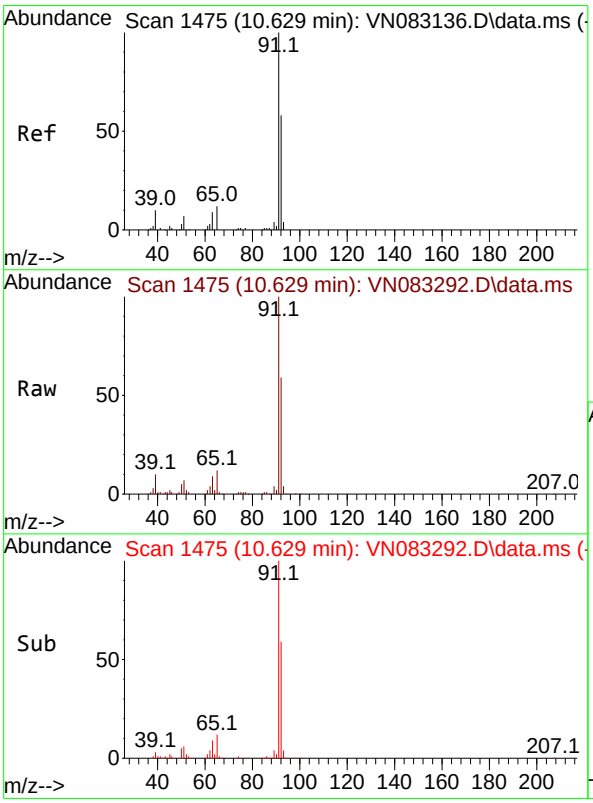
Ion	Ratio	Lower	Upper
43	100		
58	39.4	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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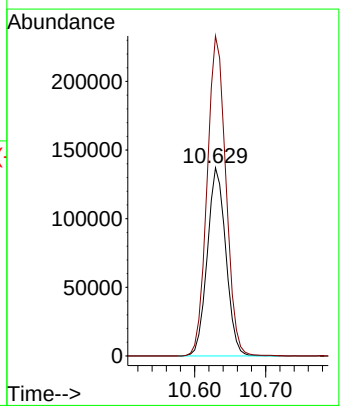
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

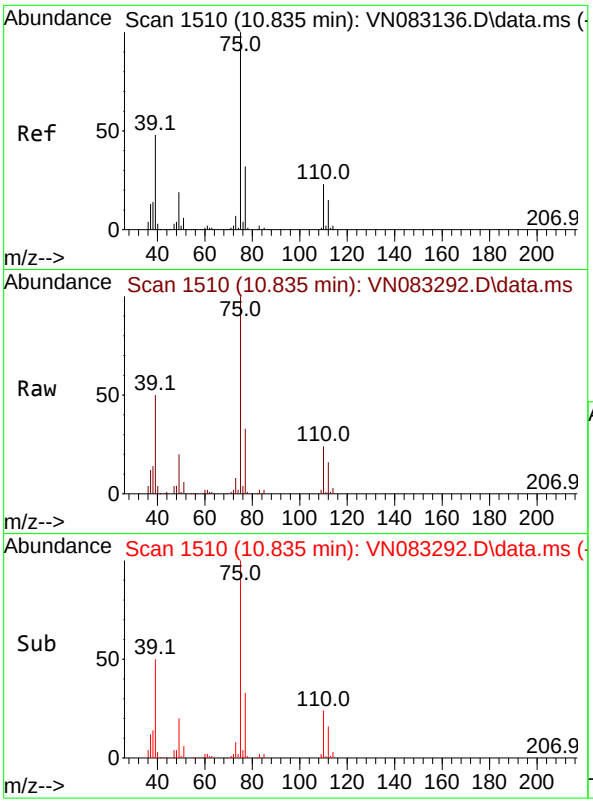


#52
Toluene
Concen: 49.578 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 92 Resp: 248571

Ion	Ratio	Lower	Upper
92	100		
91	171.9	139.4	209.0





#53
t-1,3-Dichloropropene
Concen: 43.800 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

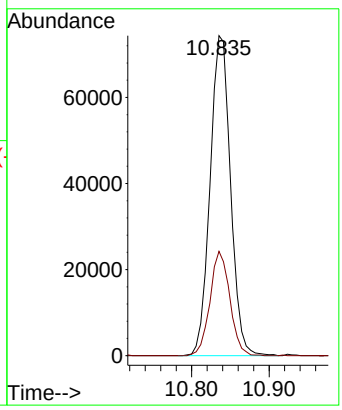
Tgt Ion: 75 Resp: 13620

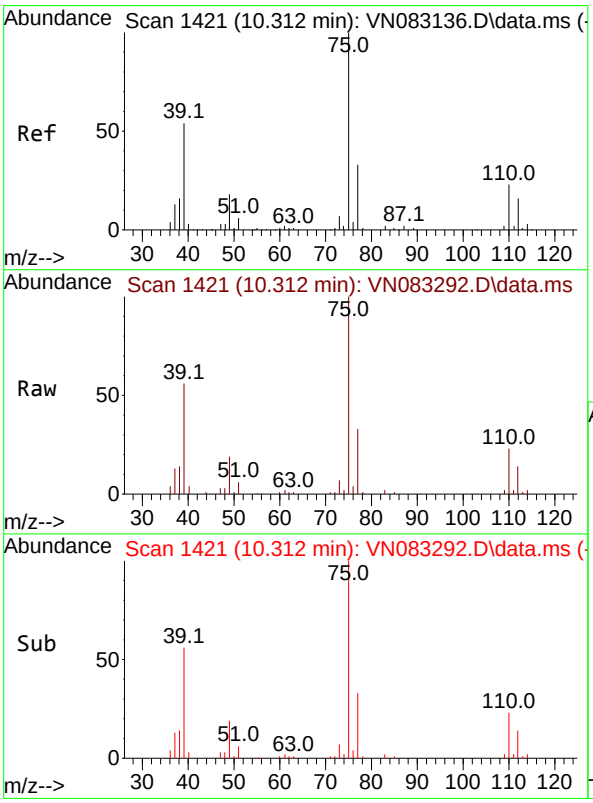
Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.7	38.5

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

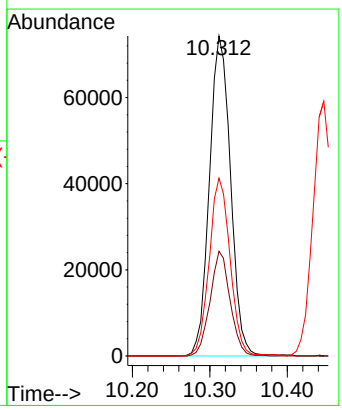


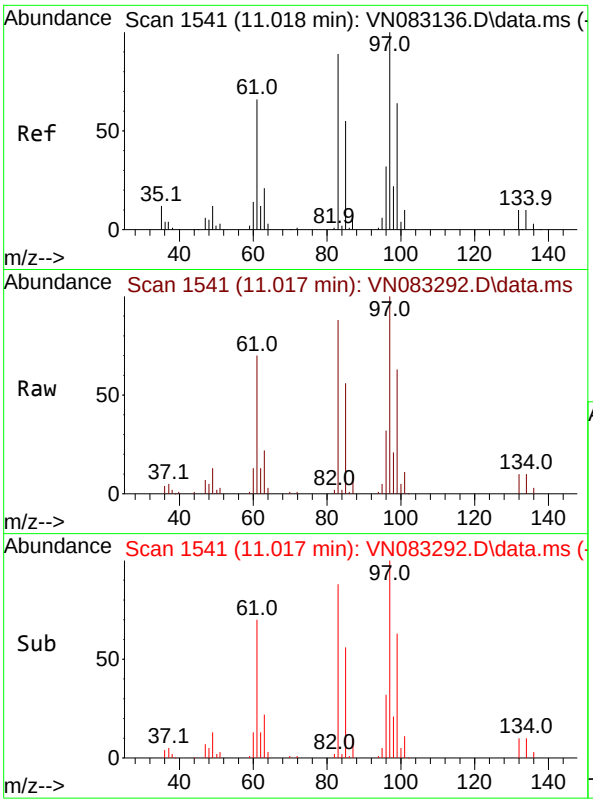


#54
cis-1,3-Dichloropropene
Concen: 42.502 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 75 Resp: 140574

Ion	Ratio	Lower	Upper
75	100		
77	32.7	24.3	36.5
39	55.5	50.5	75.7

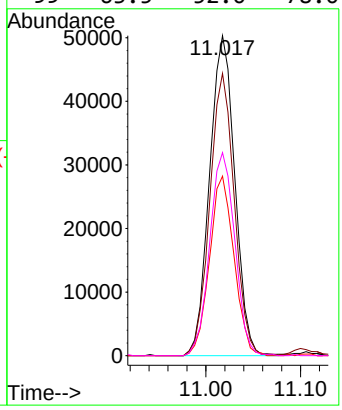




#55
1,1,2-Trichloroethane
Concen: 51.897 ug/l
RT: 11.017 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 97 Resp: 9324

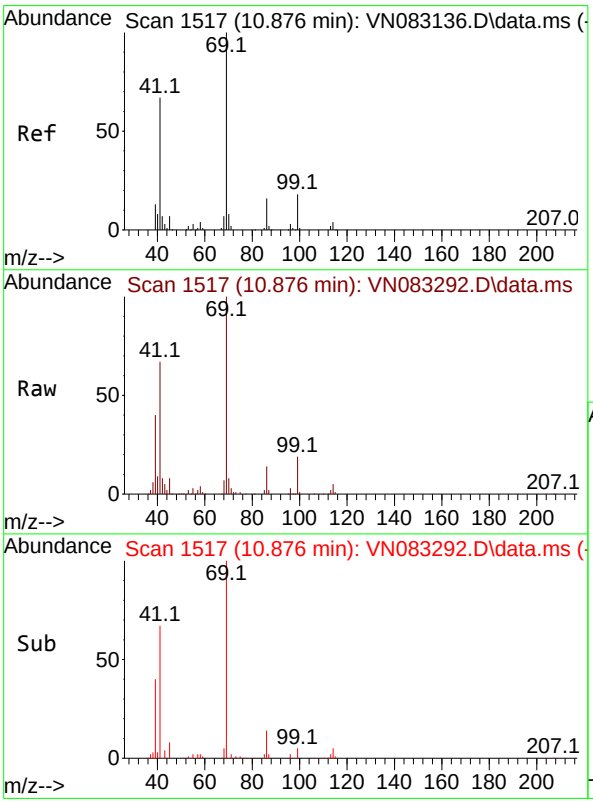
Ion	Ratio	Lower	Upper
97	100		
83	88.2	71.4	107.0
85	56.1	45.8	68.6
99	63.5	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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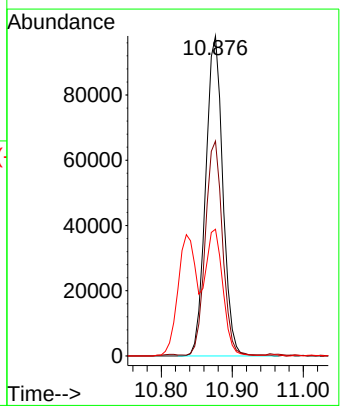
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

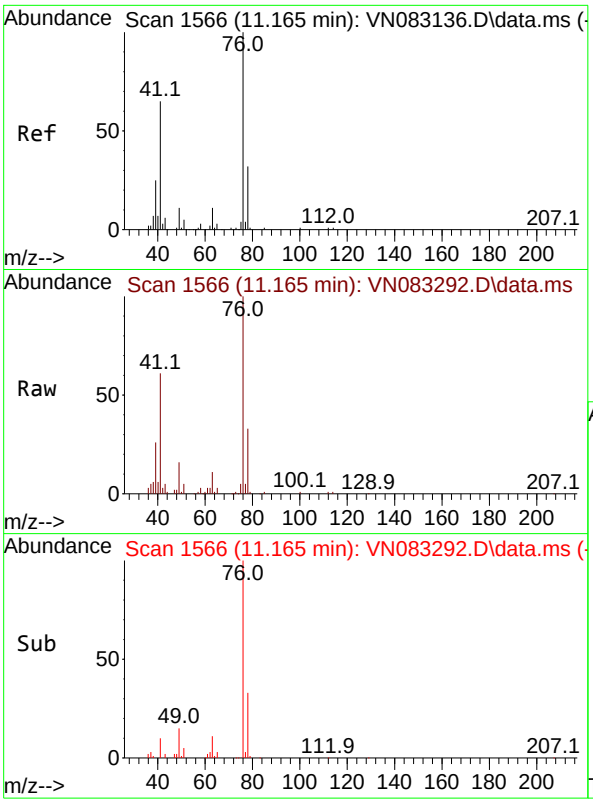


#56
Ethyl methacrylate
Concen: 48.503 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 69 Resp: 164293

Ion	Ratio	Lower	Upper
69	100		
41	67.0	63.4	95.2
39	40.5	37.4	56.0





#57
1,3-Dichloropropane
Concen: 50.716 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

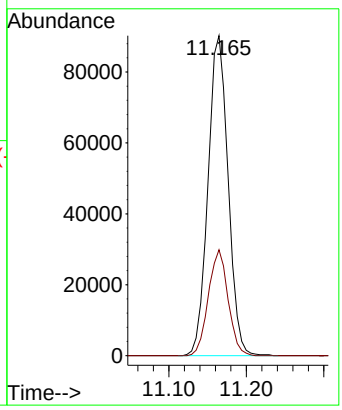
Tgt Ion: 76 Resp: 16242

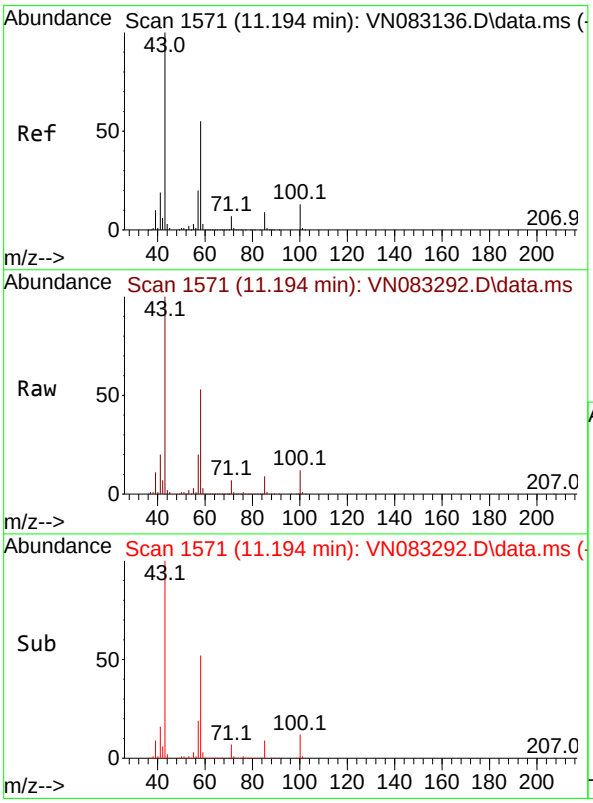
Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

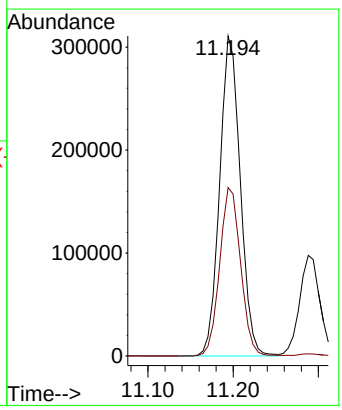


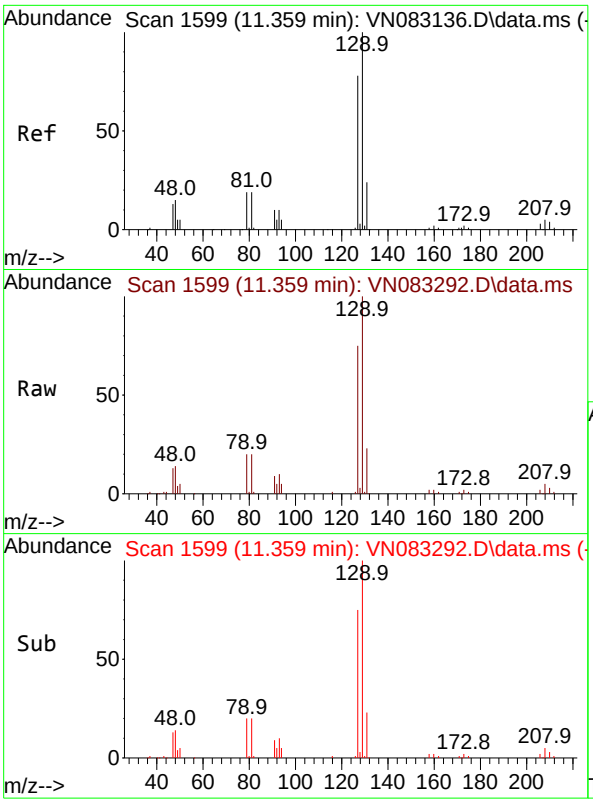


#59
2-Hexanone
Concen: 239.233 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 43 Resp: 521980

Ion	Ratio	Lower	Upper
43	100		
58	53.4	24.6	73.8

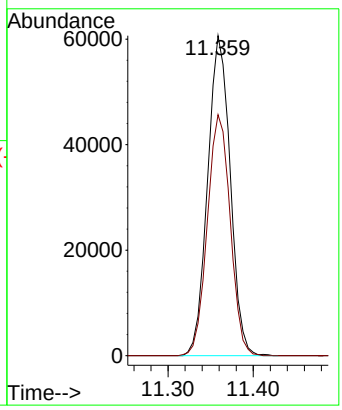




#60
Dibromochloromethane
Concen: 51.400 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:129 Resp: 11165

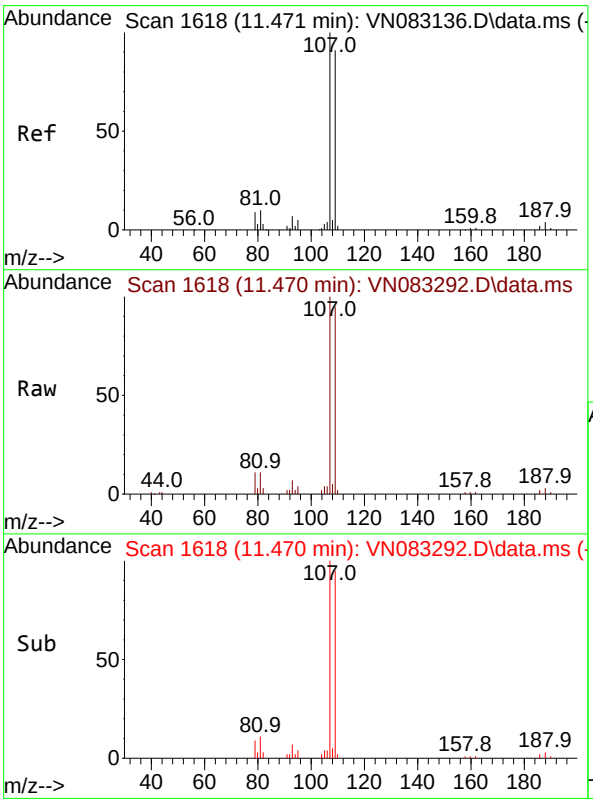
Ion	Ratio	Lower	Upper
129	100		
127	76.3	39.2	117.6



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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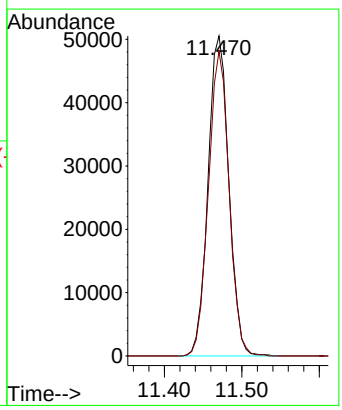
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

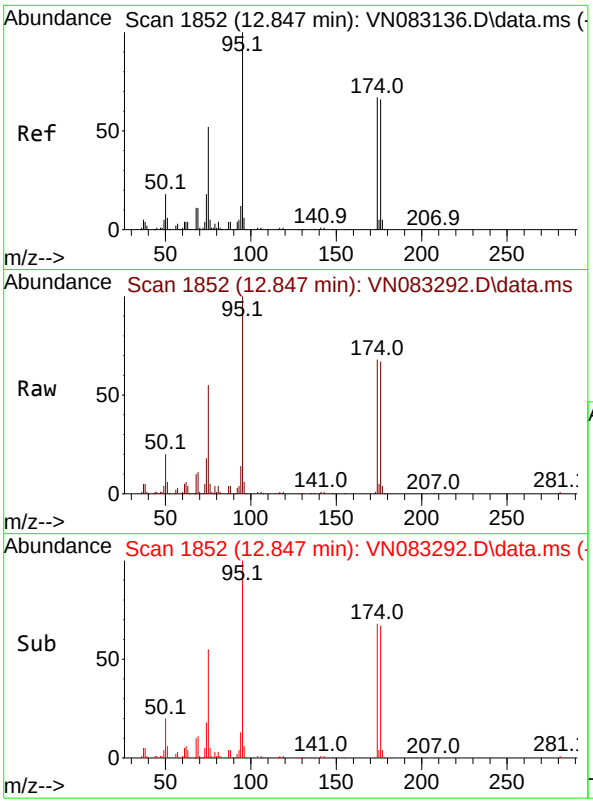


#61
1,2-Dibromoethane
Concen: 49.966 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:107 Resp: 94311

Ion	Ratio	Lower	Upper
107	100		
109	94.5	73.7	110.5

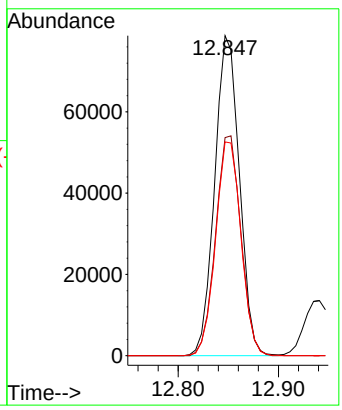




#62
4-Bromofluorobenzene
Concen: 52.539 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 95 Resp: 13453

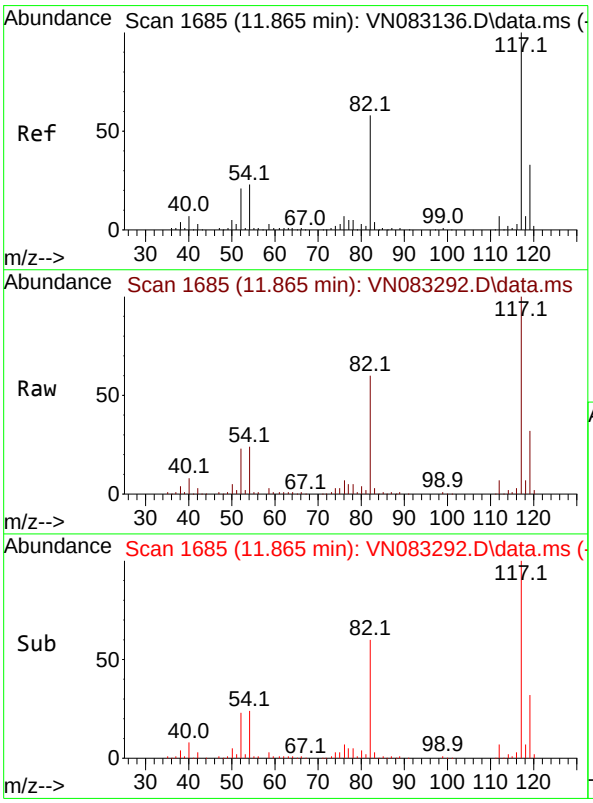
Ion	Ratio	Lower	Upper
95	100		
174	70.5	0.0	159.2
176	68.6	0.0	147.6



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations APPROVED

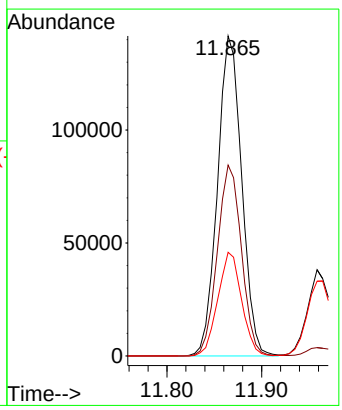
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

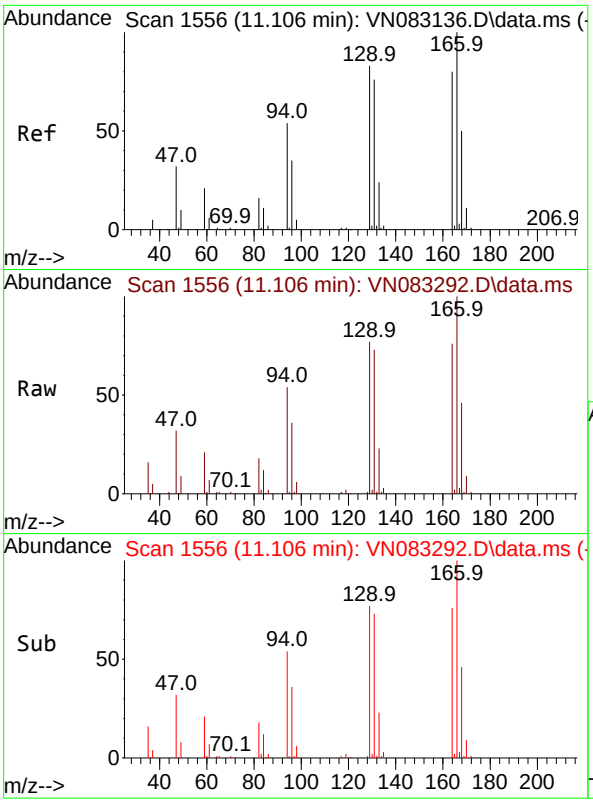


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:117 Resp: 251921

Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.5	71.3
119	32.4	25.6	38.4

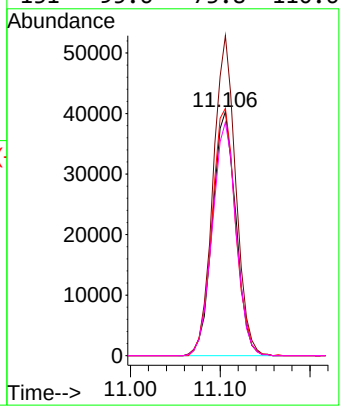




#64
Tetrachloroethene
Concen: 43.660 ug/l
RT: 11.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:164 Resp: 7284

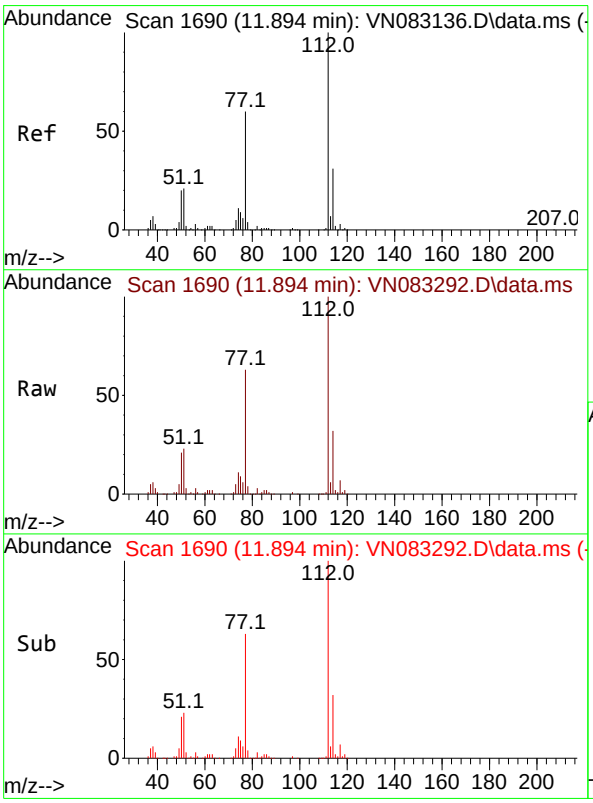
Ion	Ratio	Lower	Upper
164	100		
166	131.1	101.4	152.0
129	101.3	75.7	113.5
131	95.6	73.8	110.6



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

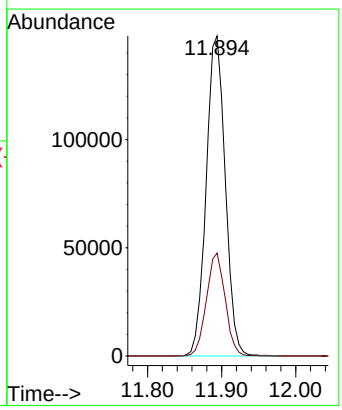
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

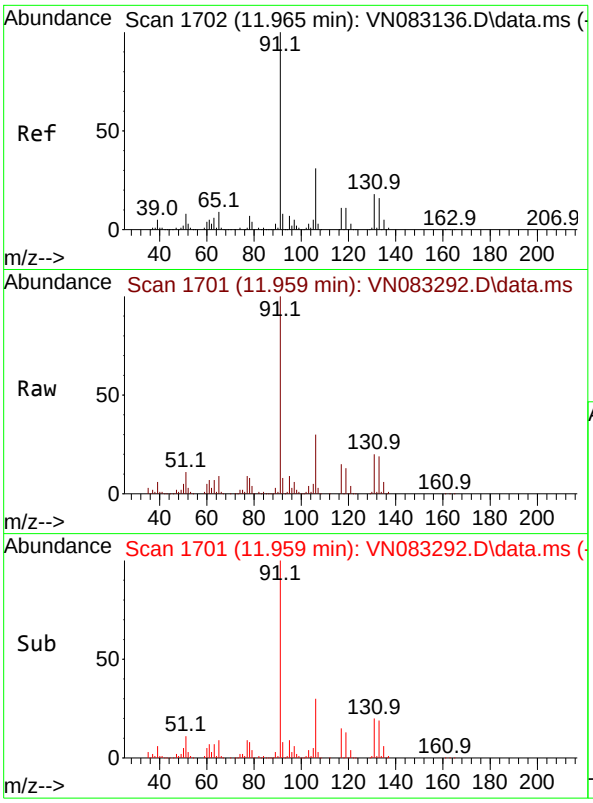


#65
Chlorobenzene
Concen: 47.507 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:112 Resp: 264480

Ion	Ratio	Lower	Upper
112	100		
114	32.2	26.2	39.2

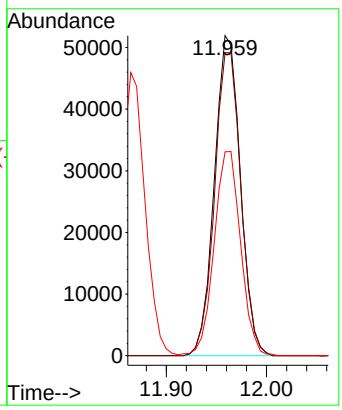




#66
1,1,1,2-Tetrachloroethane
Concen: 47.597 ug/l
RT: 11.959 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:131 Resp: 9345

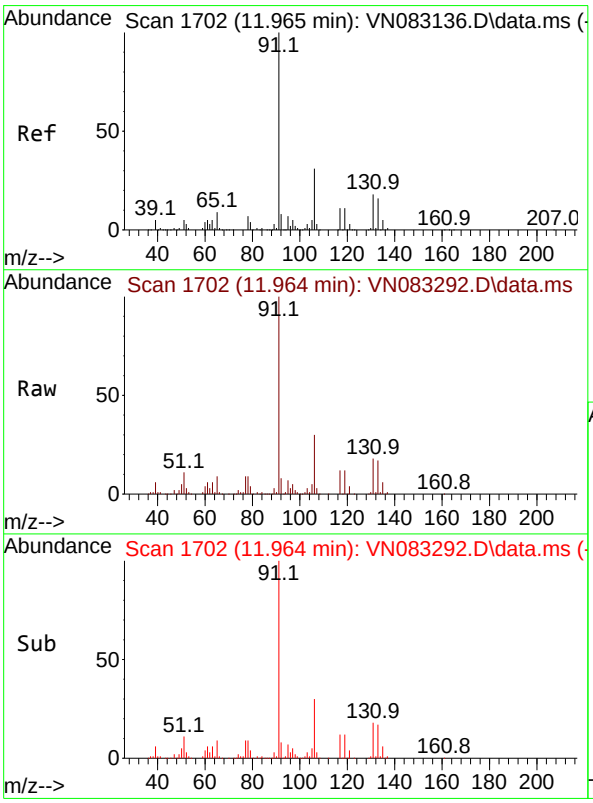
Ion	Ratio	Lower	Upper
131	100		
133	96.0	47.3	142.0
119	65.1	32.5	97.4



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations APPROVED

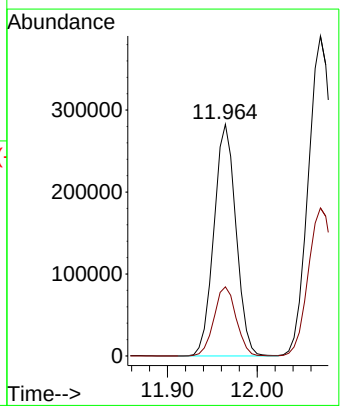
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

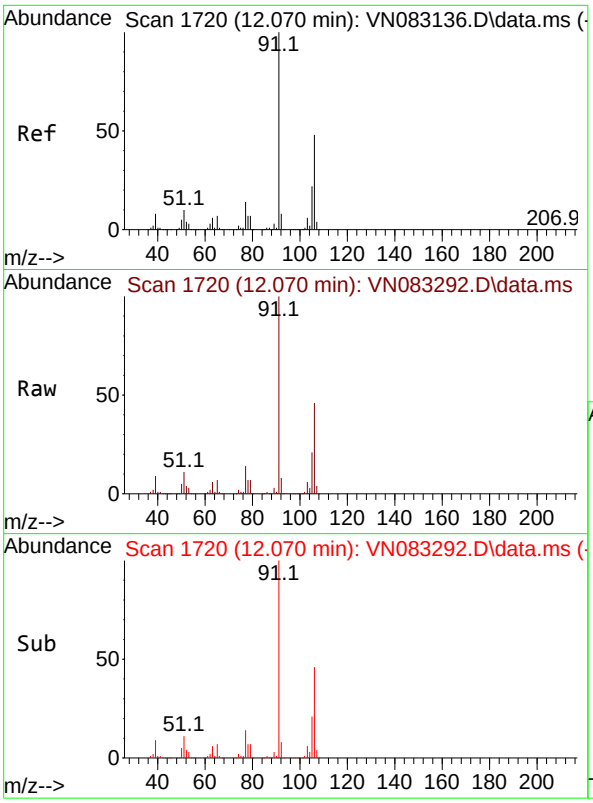


#67
Ethyl Benzene
Concen: 47.225 ug/l
RT: 11.964 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 91 Resp: 482297

Ion	Ratio	Lower	Upper
91	100		
106	29.8	24.0	36.0





#68
m/p-Xylenes
Concen: 93.715 ug/l
RT: 12.070 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

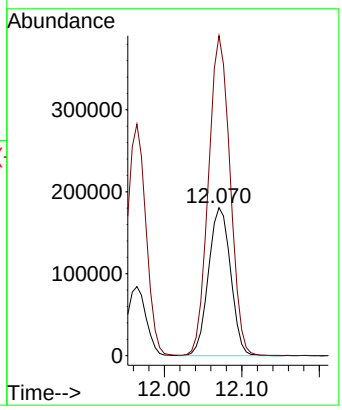
Tgt Ion:106 Resp: 35852

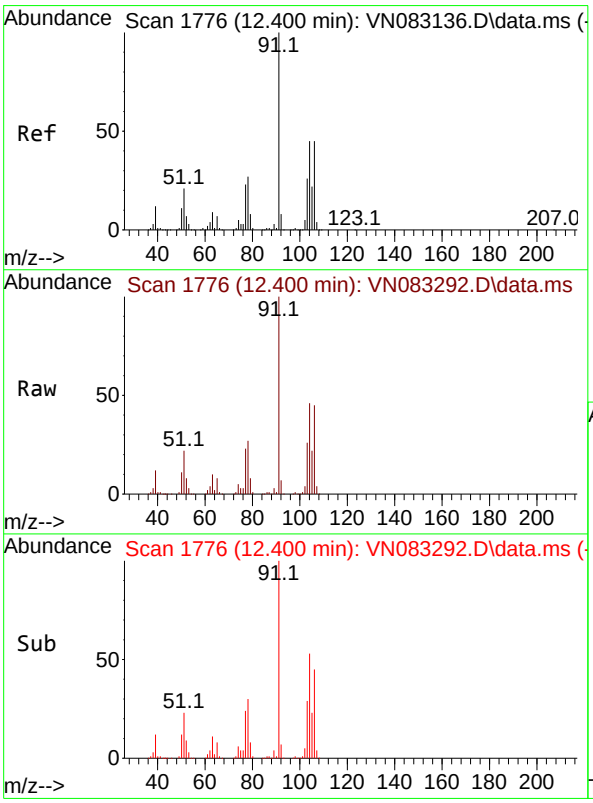
Ion	Ratio	Lower	Upper
106	100		
91	211.3	166.1	249.1

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

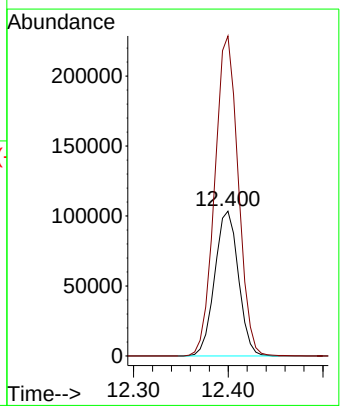


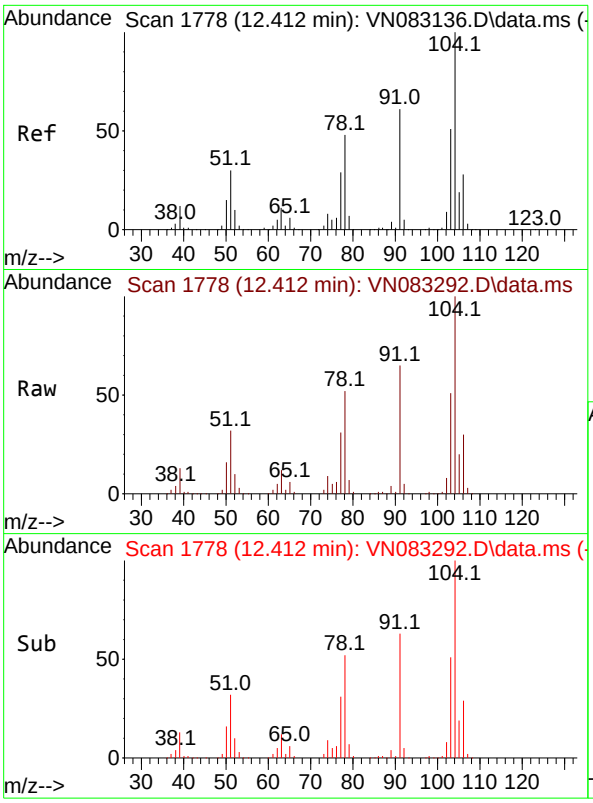


#69
o-Xylene
Concen: 47.699 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:106 Resp: 179973

Ion	Ratio	Lower	Upper
106	100		
91	219.4	111.3	333.9

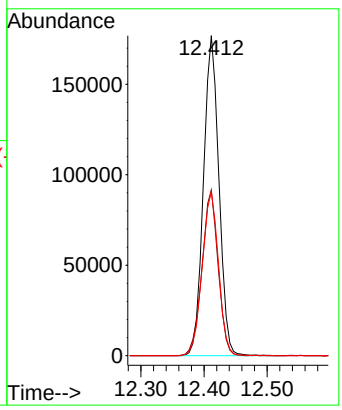




#70
Styrene
Concen: 47.487 ug/l
RT: 12.412 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:104 Resp: 30093

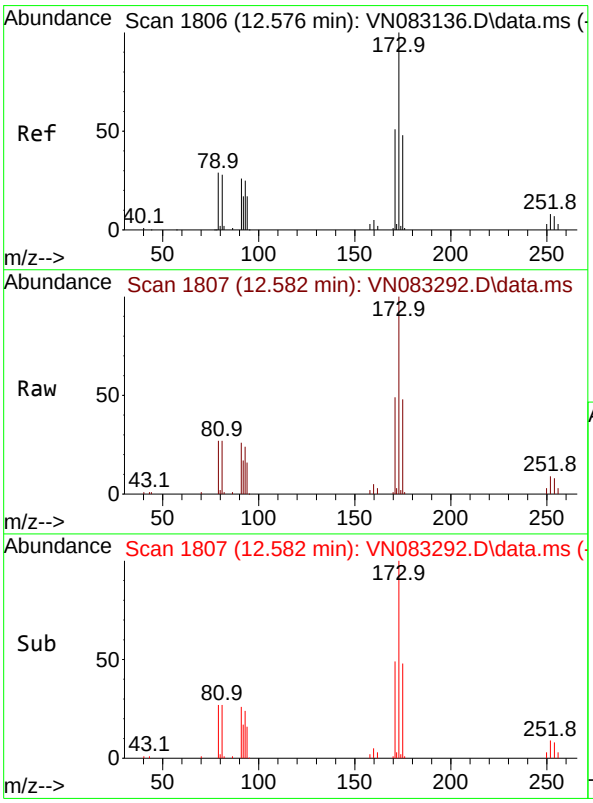
Ion	Ratio	Lower	Upper
104	100		
78	54.0	41.6	62.4
103	53.9	44.0	66.0



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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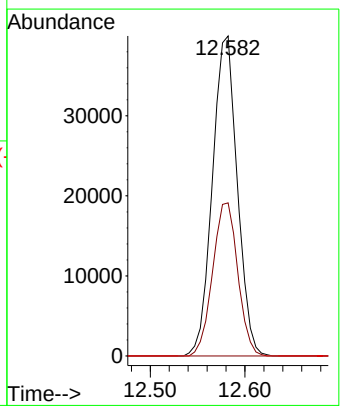
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

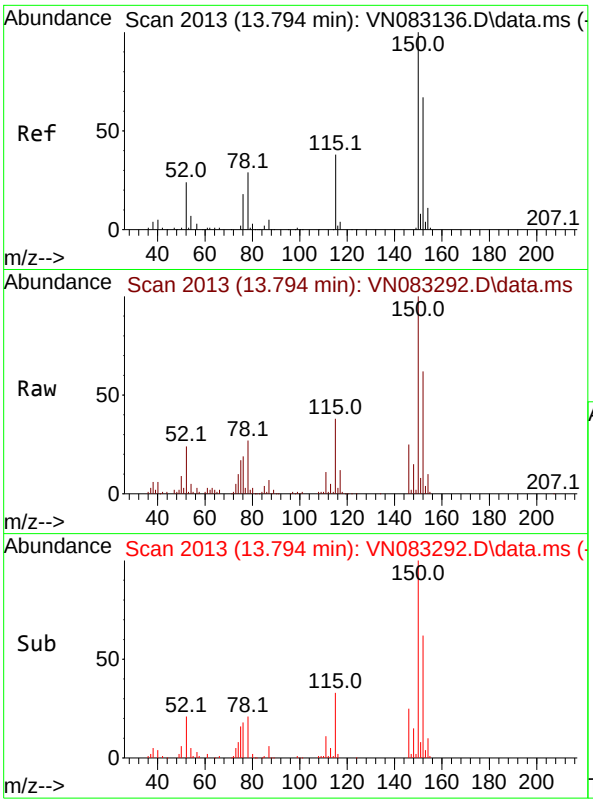


#71
Bromoform
Concen: 49.032 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:173 Resp: 72932

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.0	72.0
254	0.0	0.0	0.0

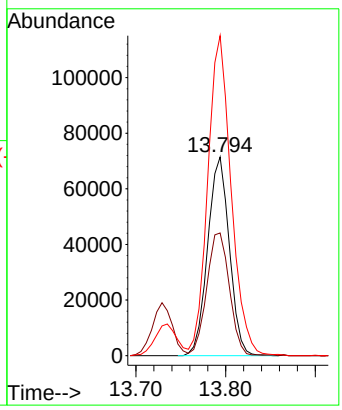




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:152 Resp: 11963

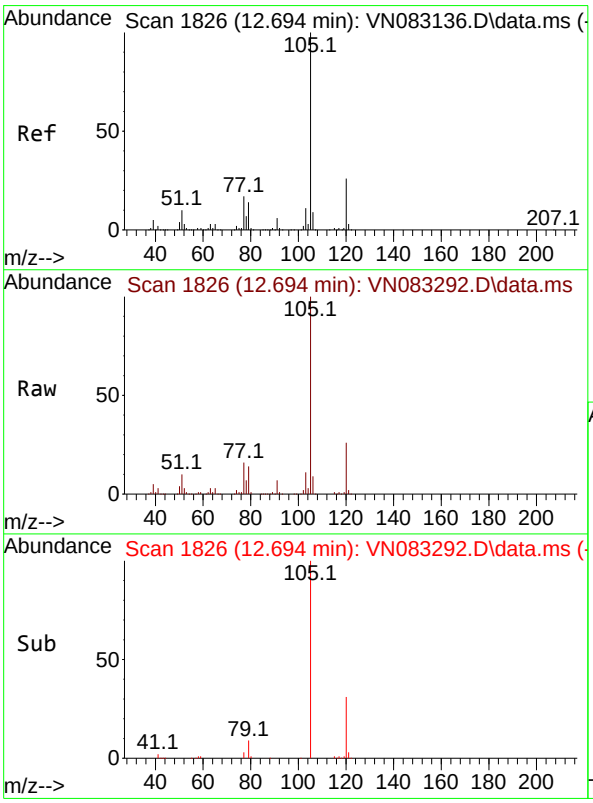
Ion	Ratio	Lower	Upper
152	100		
115	64.8	30.6	91.6
150	173.7	0.0	348.6



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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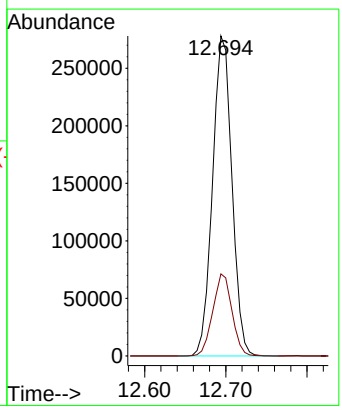
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

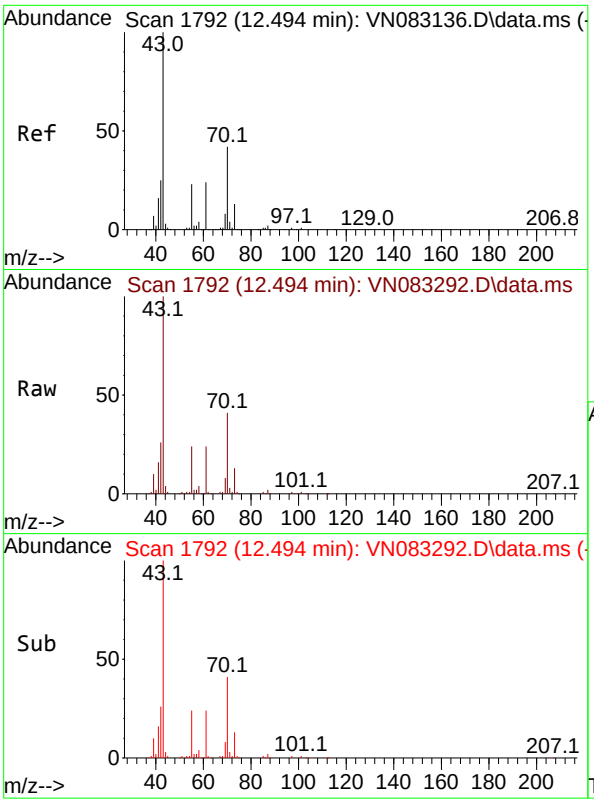


#73
Isopropylbenzene
Concen: 46.088 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:105 Resp: 461160

Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.9	38.6

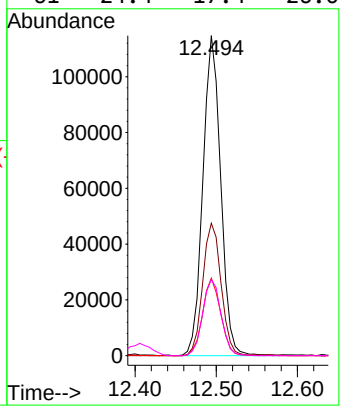




#74
N-amyl acetate
Concen: 35.773 ug/l
RT: 12.494 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 43 Resp: 17508

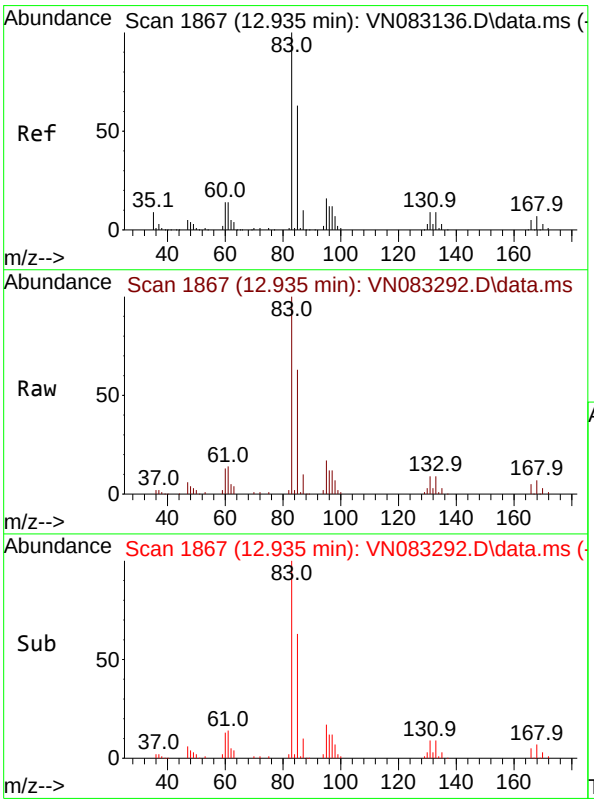
Ion	Ratio	Lower	Upper
43	100		
70	42.6	29.8	44.6
55	24.5	18.7	28.1
61	24.4	17.4	26.0



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

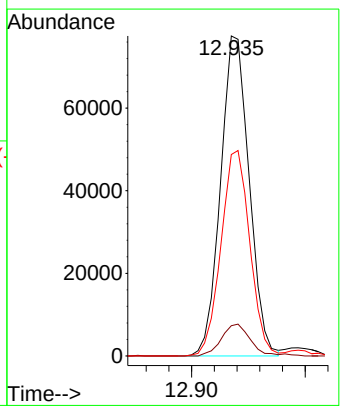
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

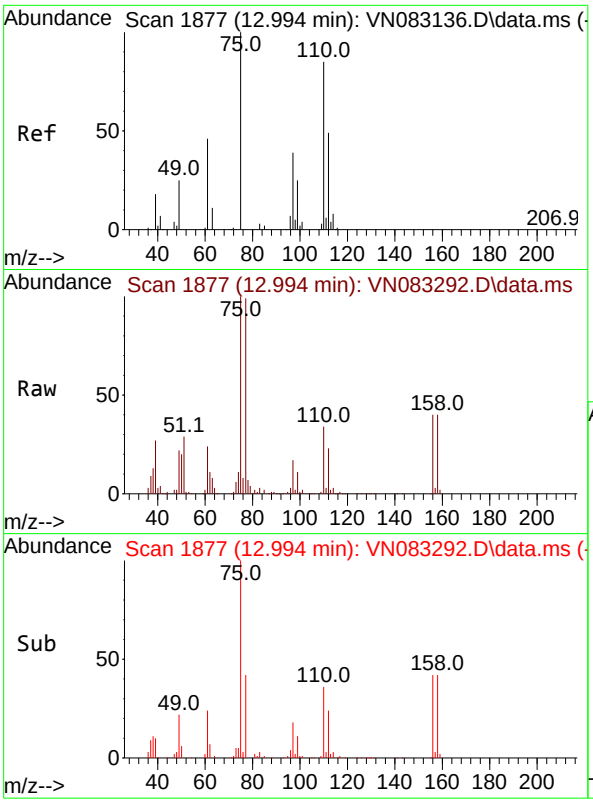


#75
1,1,2,2-Tetrachloroethane
Concen: 47.878 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 83 Resp: 135499

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	64.7	31.9	95.7





#76
1,2,3-Trichloropropane
Concen: 40.409 ug/l m
RT: 12.994 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

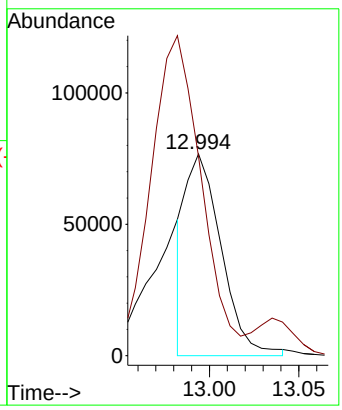
Tgt Ion: 75 Resp: 10609

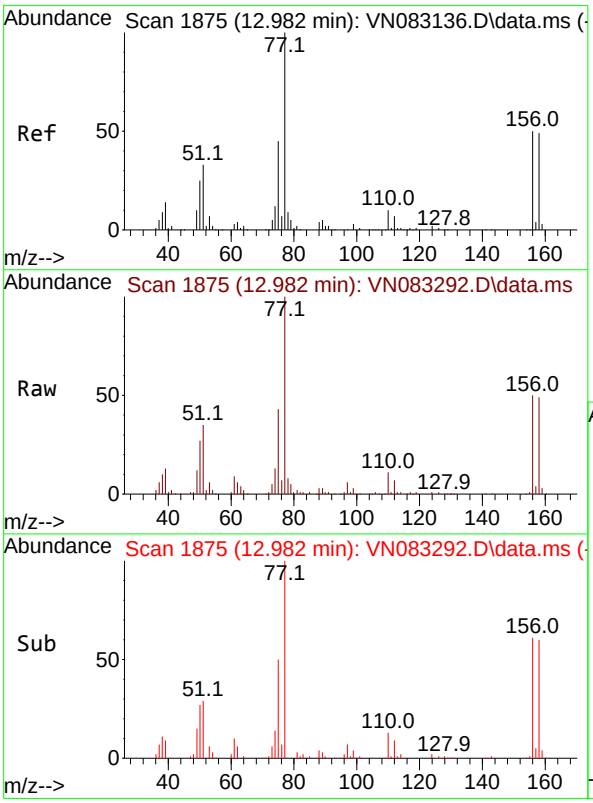
Ion	Ratio	Lower	Upper
75	100		
77	225.6	110.9	332.6

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

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Supervised By :Semsettin Yesilyurt 08/16/2024

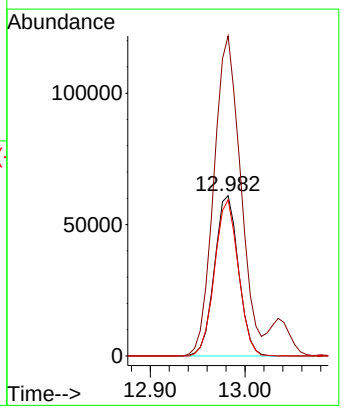


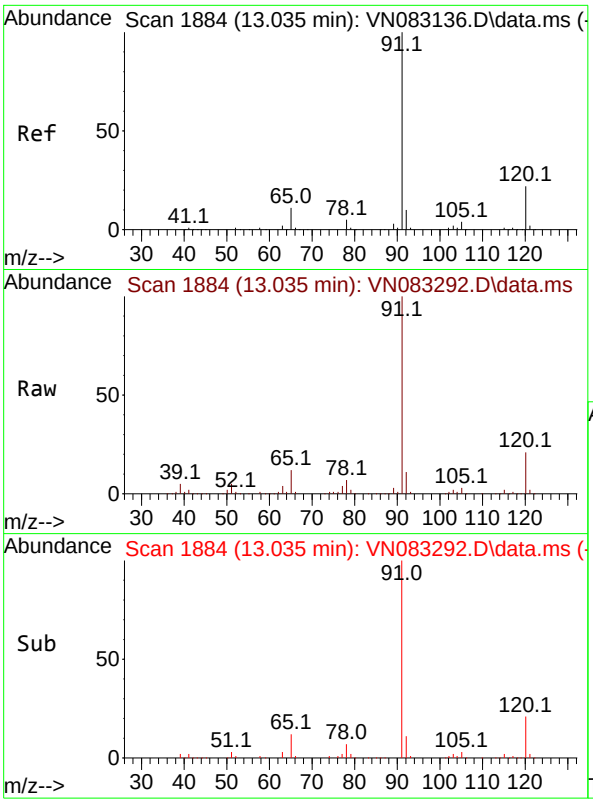


#77
Bromobenzene
Concen: 48.344 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:156 Resp: 107457

Ion	Ratio	Lower	Upper
156	100		
77	222.7	111.3	333.8
158	96.6	48.3	144.9





#78
n-propylbenzene
Concen: 45.963 ug/l
RT: 13.035 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

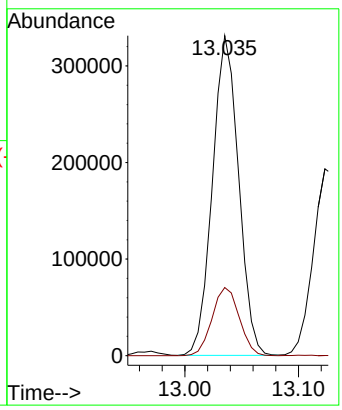
Tgt Ion: 91 Resp: 52957

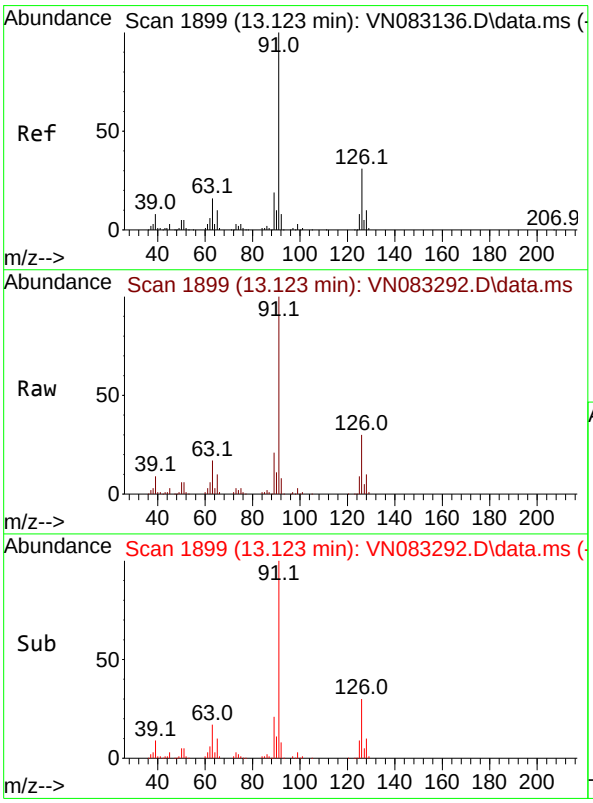
Ion	Ratio	Lower	Upper
91	100		
120	22.1	10.9	32.9

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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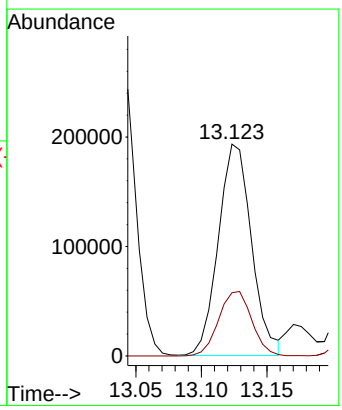


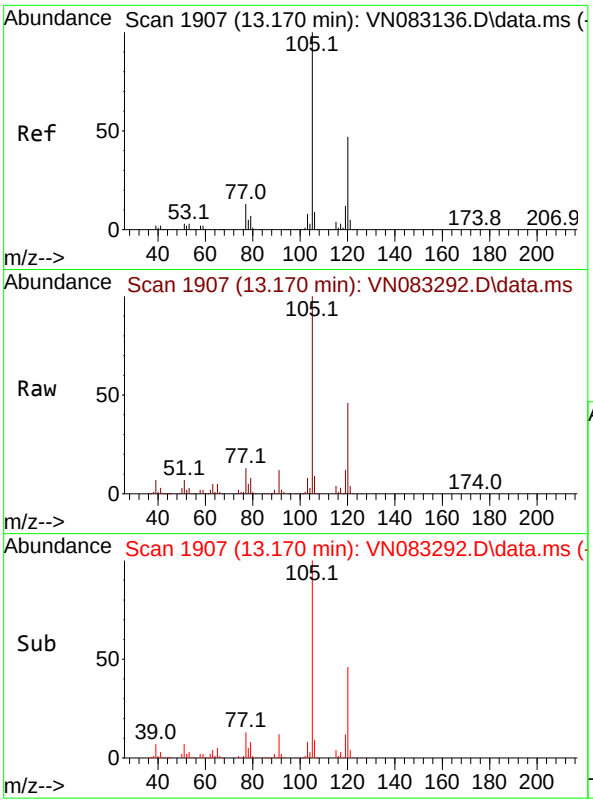


#79
2-Chlorotoluene
Concen: 46.651 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 91 Resp: 340781

Ion	Ratio	Lower	Upper
91	100		
126	30.4	16.2	48.6





#80
1,3,5-Trimethylbenzene
Concen: 46.486 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

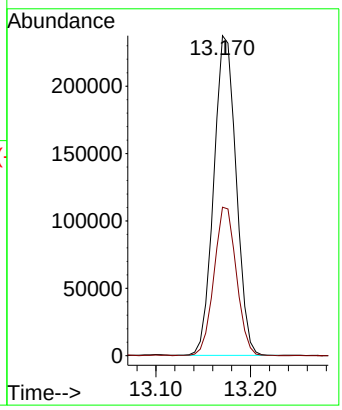
Tgt Ion:105 Resp: 38942

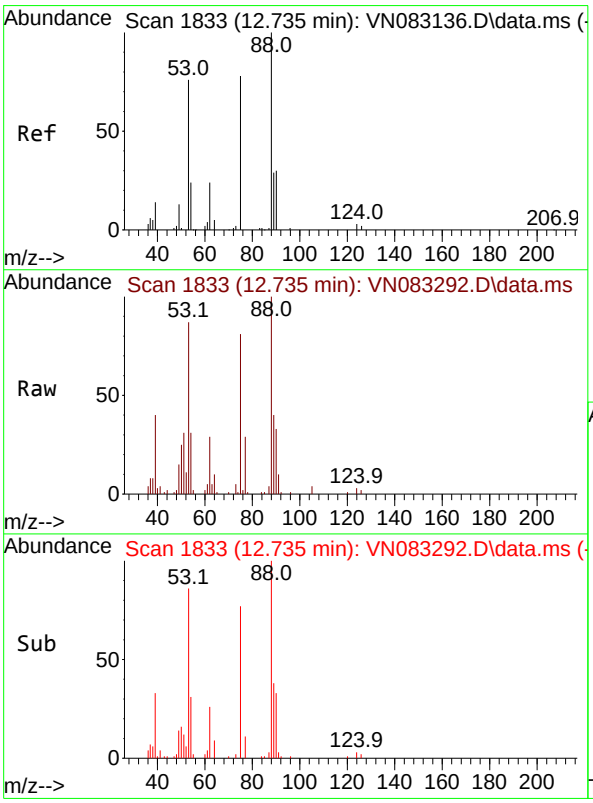
Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.3	72.8

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

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Reviewed By :Mahesh Dadoda 08/16/2024
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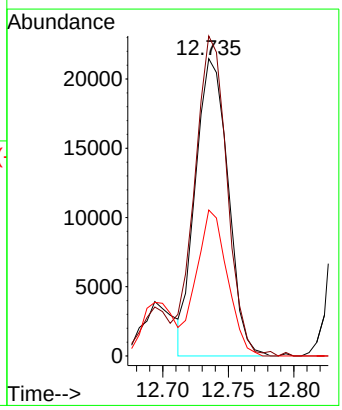


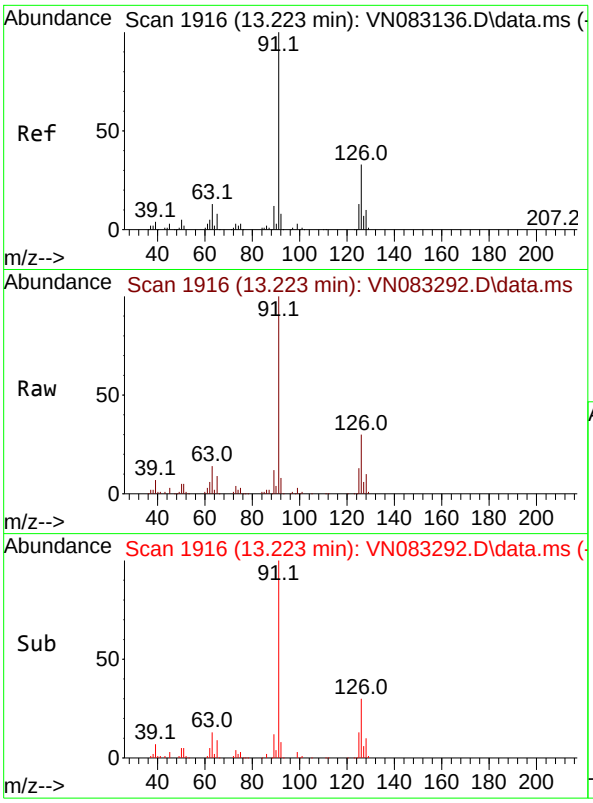


#81
trans-1,4-Dichloro-2-butene
Concen: 30.801 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 75 Resp: 37178

Ion	Ratio	Lower	Upper
75	100		
53	107.9	88.4	132.6
89	47.1	36.3	54.5





#82
4-Chlorotoluene
Concen: 46.537 ug/l
RT: 13.223 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

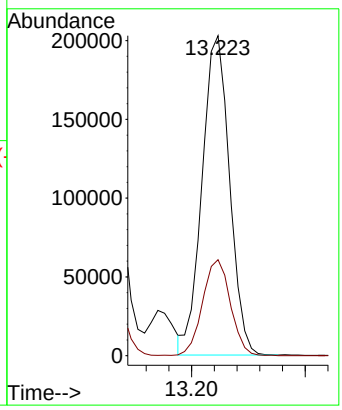
Tgt Ion: 91 Resp: 34098

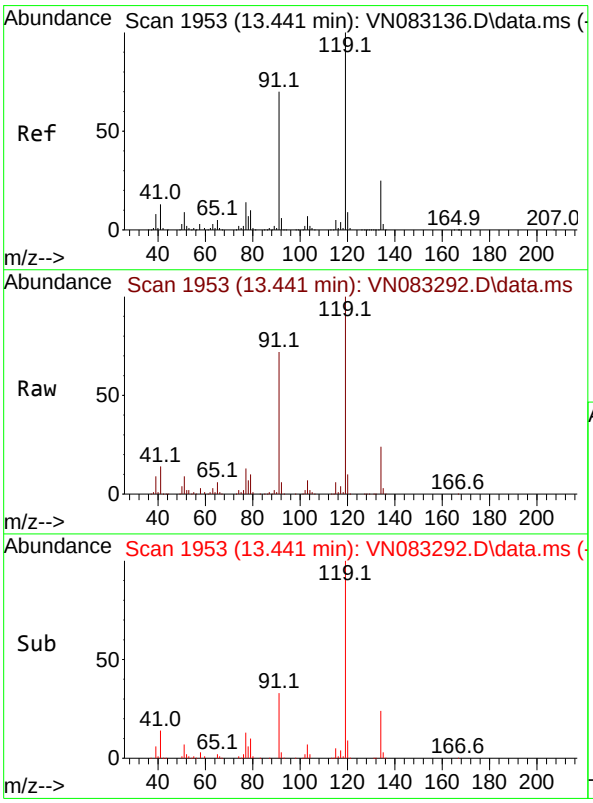
Ion	Ratio	Lower	Upper
91	100		
126	30.4	16.2	48.6

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

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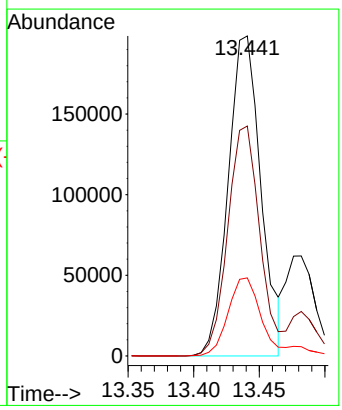


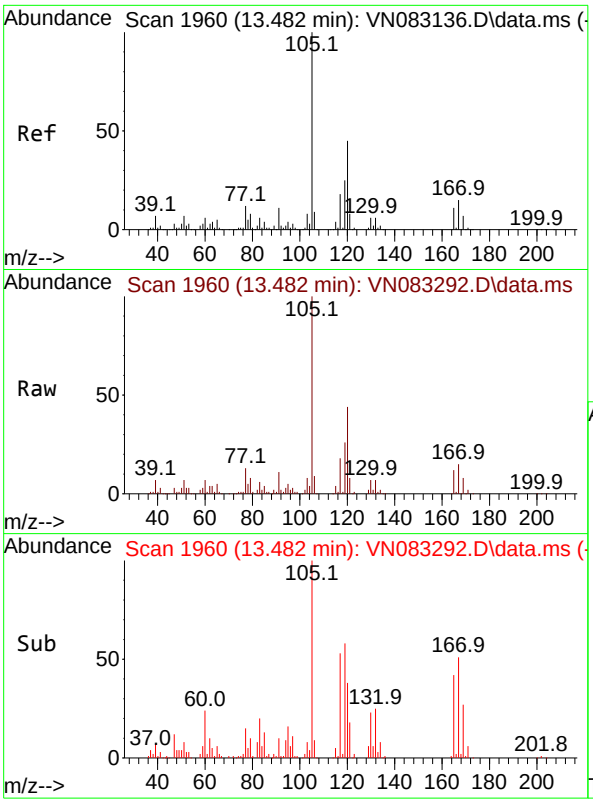


#83
tert-Butylbenzene
Concen: 46.497 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:119 Resp: 344950

Ion	Ratio	Lower	Upper
119	100		
91	70.0	35.0	105.1
134	26.3	13.3	39.8

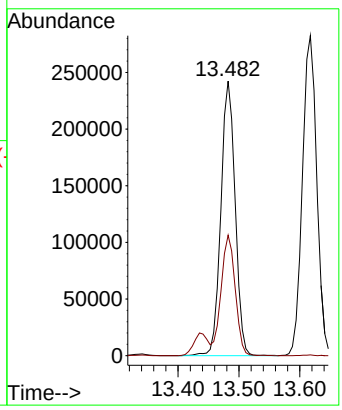




#84
1,2,4-Trimethylbenzene
Concen: 46.717 ug/l
RT: 13.482 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:105 Resp: 39440

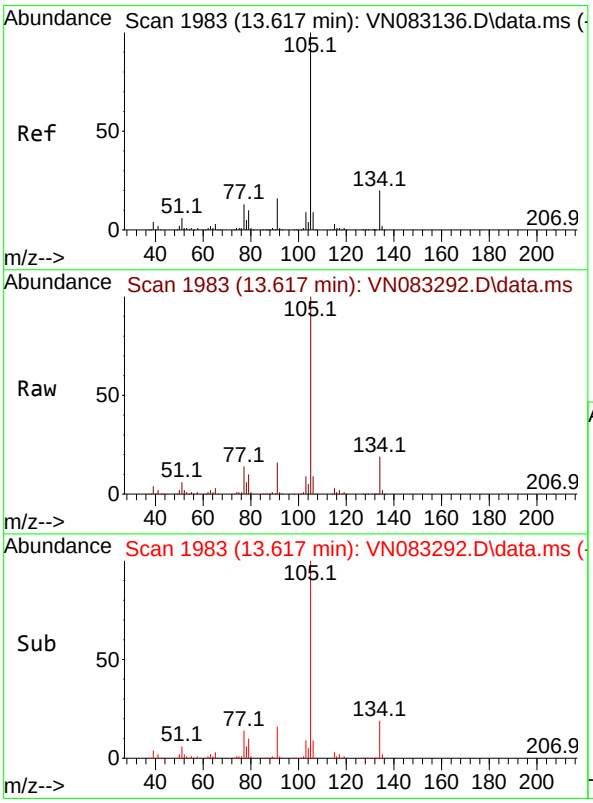
Ion	Ratio	Lower	Upper
105	100		
120	43.6	21.9	65.8



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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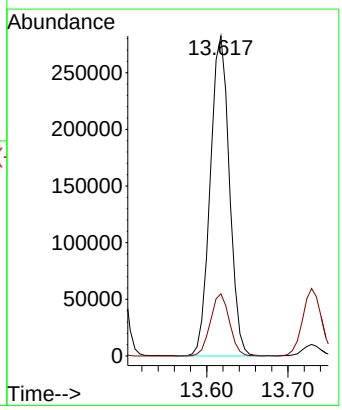
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

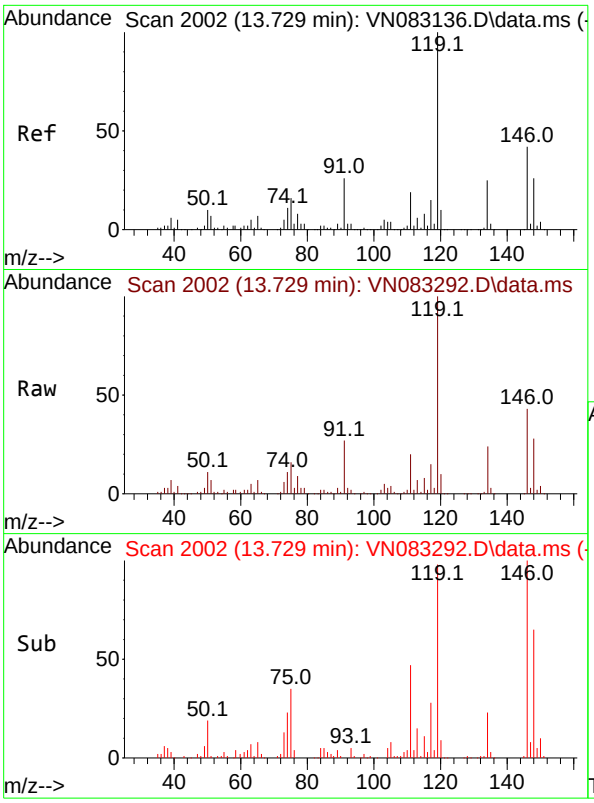


#85
sec-Butylbenzene
Concen: 45.708 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:105 Resp: 462695

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.3





#86
p-Isopropyltoluene
Concen: 45.994 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

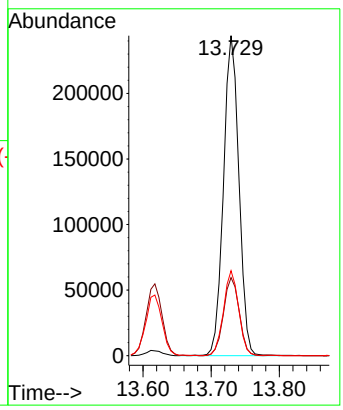
Tgt Ion:119 Resp: 38443

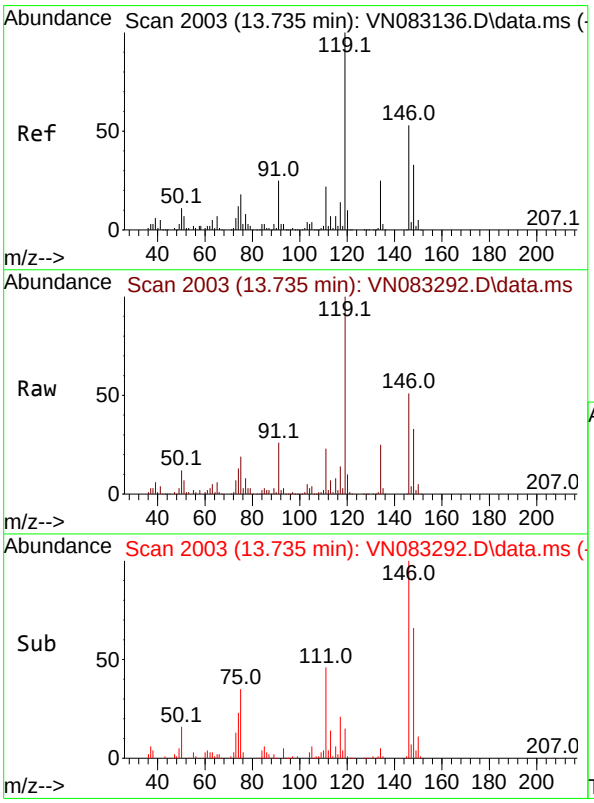
Ion	Ratio	Lower	Upper
119	100		
134	24.9	13.0	39.0
91	26.0	12.3	36.9

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

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Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

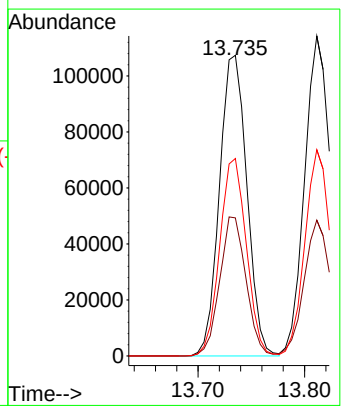


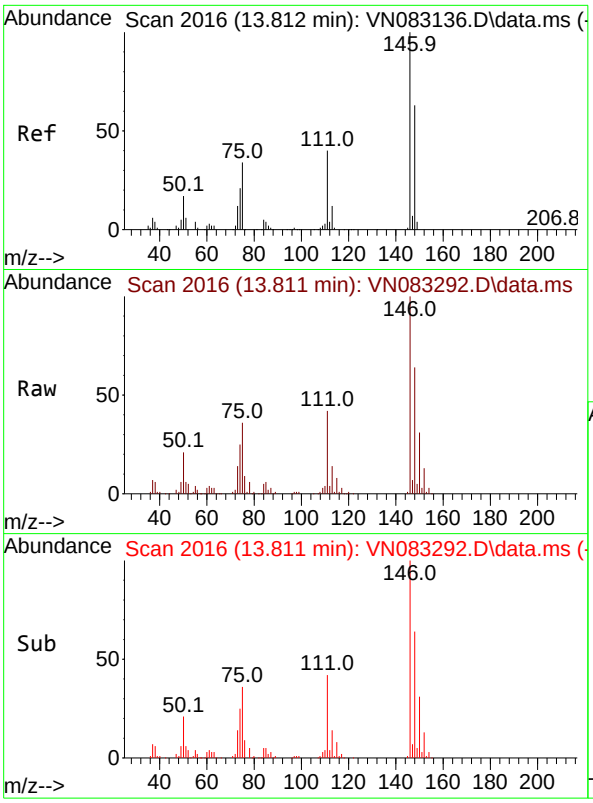


#87
1,3-Dichlorobenzene
Concen: 45.956 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:146 Resp: 192209

Ion	Ratio	Lower	Upper
146	100		
111	44.3	20.6	61.9
148	63.7	31.8	95.3

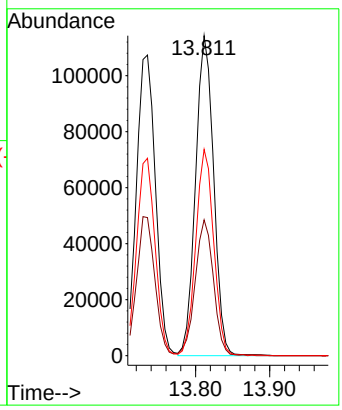




#88
1,4-Dichlorobenzene
Concen: 45.977 ug/l
RT: 13.811 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:146 Resp: 19386

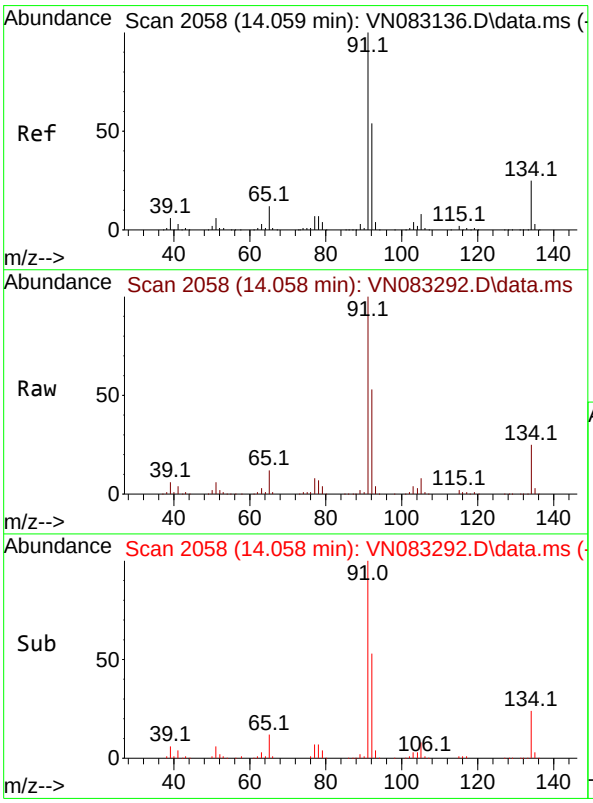
Ion	Ratio	Lower	Upper
146	100		
111	42.4	20.1	60.3
148	63.9	32.2	96.6



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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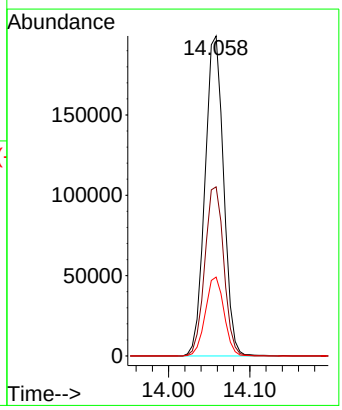
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

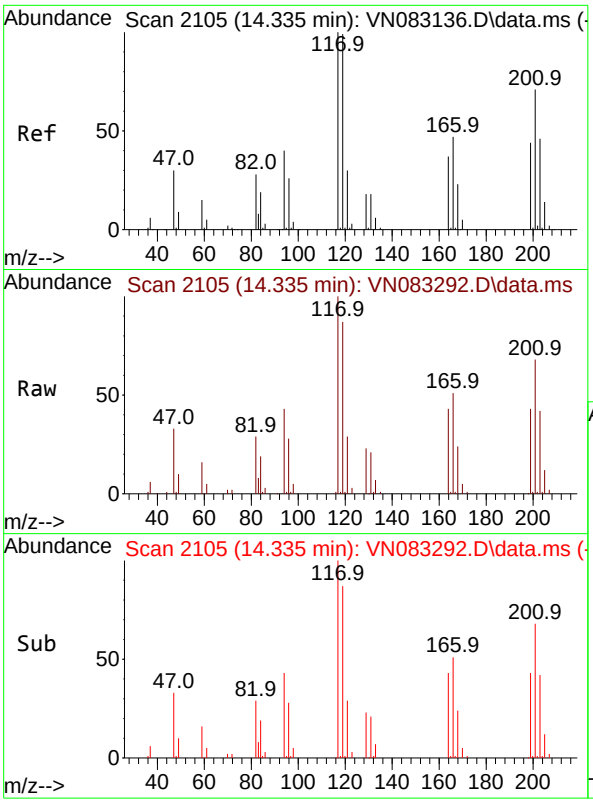


#89
n-Butylbenzene
Concen: 43.772 ug/l
RT: 14.058 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 91 Resp: 317014

Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.1	78.3
134	24.7	12.1	36.3





#90
Hexachloroethane
Concen: 45.856 ug/l
RT: 14.335 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

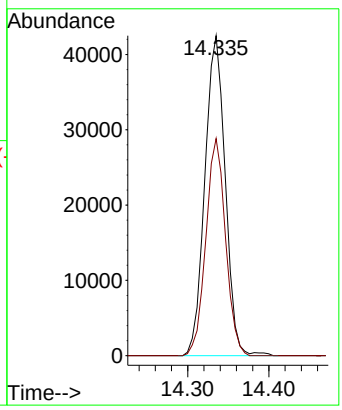
Tgt Ion:117 Resp: 7404

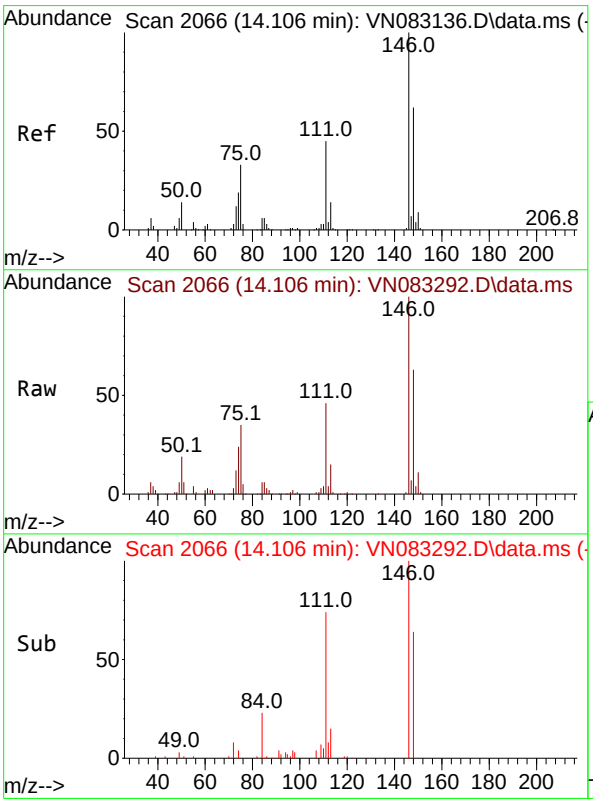
Ion	Ratio	Lower	Upper
117	100		
201	65.6	35.8	107.3

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

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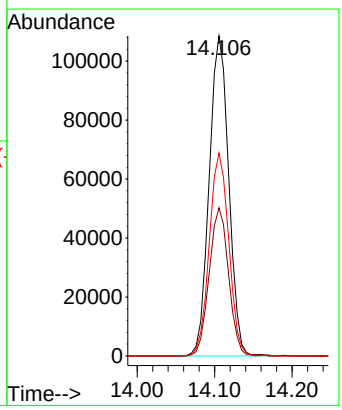


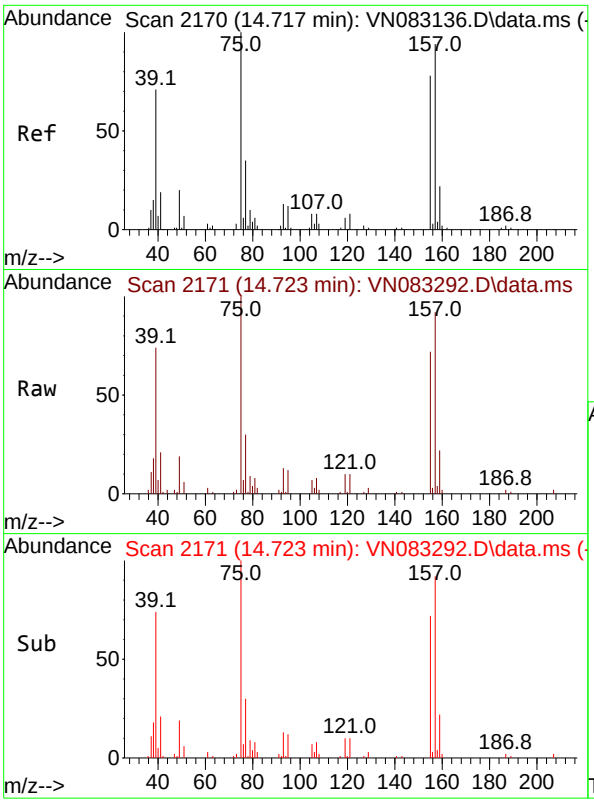


#91
1,2-Dichlorobenzene
Concen: 46.883 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:146 Resp: 189753

Ion	Ratio	Lower	Upper
146	100		
111	45.9	21.4	64.2
148	63.3	32.1	96.5





#92
1,2-Dibromo-3-Chloropropane
Concen: 43.807 ug/l
RT: 14.723 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

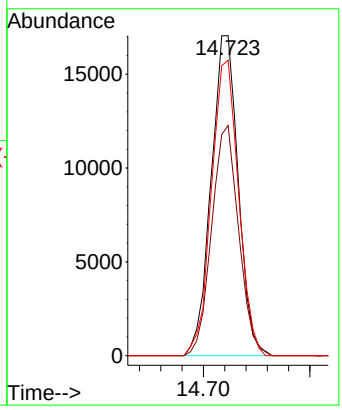
Tgt Ion: 75 Resp: 3008

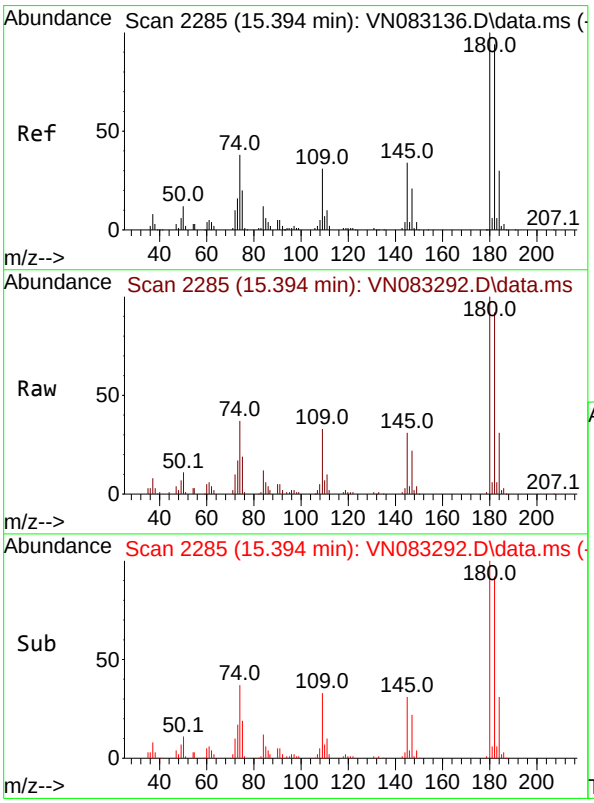
Ion	Ratio	Lower	Upper
75	100		
155	71.7	36.6	109.8
157	92.5	46.9	140.6

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
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Supervised By :Semsettin Yesilyurt 08/16/2024

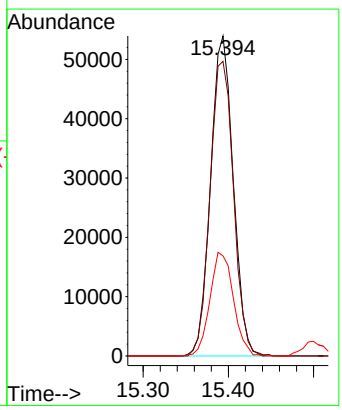


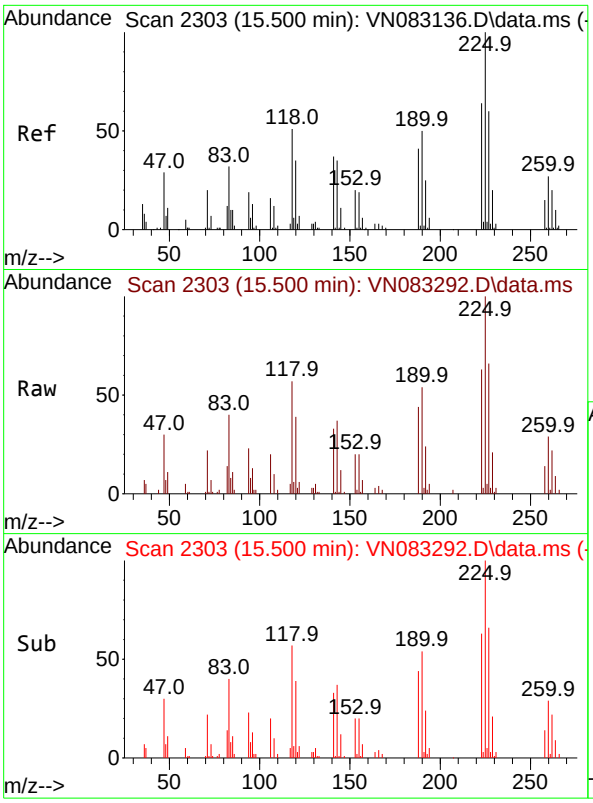


#93
1,2,4-Trichlorobenzene
Concen: 43.935 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:180 Resp: 99622

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.3	141.8
145	33.6	15.7	47.1

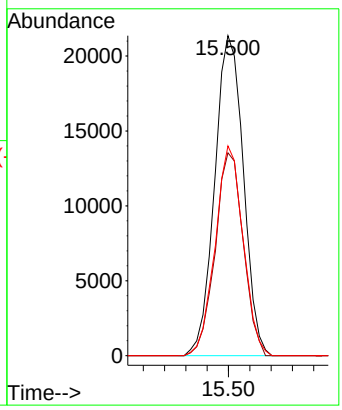




#94
Hexachlorobutadiene
Concen: 39.552 ug/l
RT: 15.500 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:225 Resp: 3988

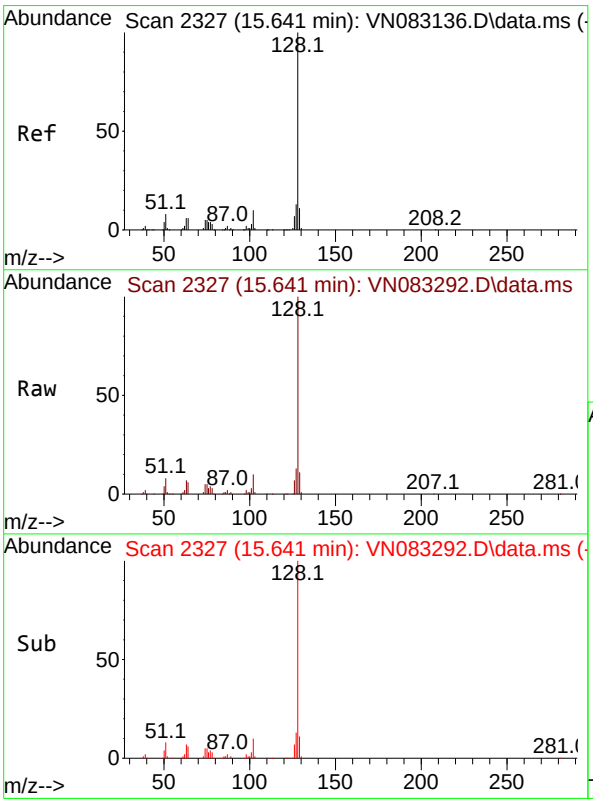
Ion	Ratio	Lower	Upper
225	100		
223	61.9	31.9	95.7
227	63.8	32.5	97.5



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

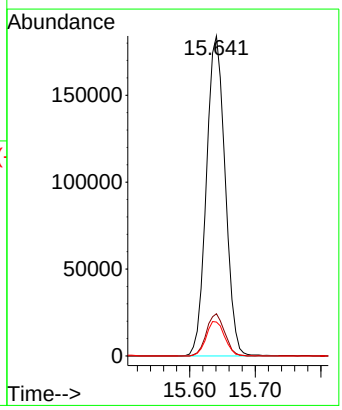
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

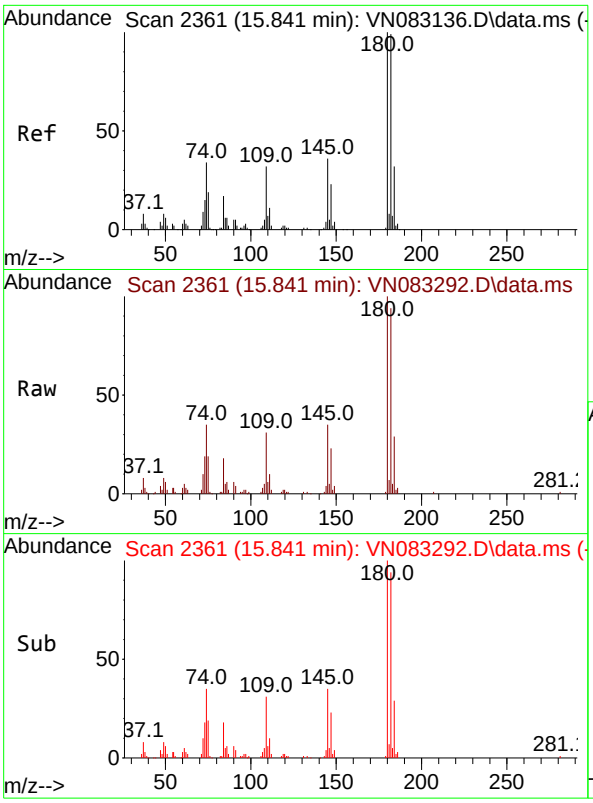


#95
Naphthalene
Concen: 45.567 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:128 Resp: 365990

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.7	8.6	12.8

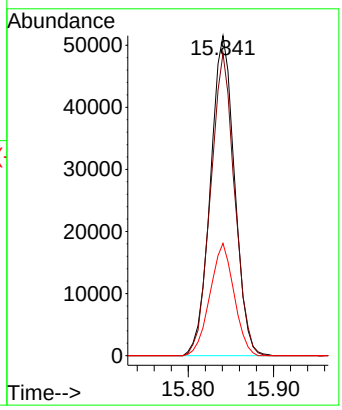




#96
1,2,3-Trichlorobenzene
Concen: 45.203 ug/l
RT: 15.841 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:180 Resp: 10141

Ion	Ratio	Lower	Upper
180	100		
182	93.6	48.9	146.8
145	35.0	16.8	50.4



Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vn080724	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN083135.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:12 AM	MMDadoda	8/9/2024 6:15:44 AM	Peak Integrated by Software
VSTDICCC050	VN083136.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:17 AM	MMDadoda	8/9/2024 6:15:45 AM	Peak Integrated by Software
VSTDICCC050	VN083136.D	Vinyl Acetate	JOHN	8/8/2024 9:35:17 AM	MMDadoda	8/9/2024 6:15:45 AM	Peak Integrated by Software
VSTDICC020	VN083137.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:21 AM	MMDadoda	8/9/2024 6:15:46 AM	Peak Integrated by Software
VSTDICC020	VN083137.D	Vinyl Acetate	JOHN	8/8/2024 9:35:21 AM	MMDadoda	8/9/2024 6:15:46 AM	Peak Integrated by Software
VSTDICC010	VN083138.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:26 AM	MMDadoda	8/9/2024 6:15:48 AM	Peak Integrated by Software
VSTDICC005	VN083139.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:30 AM	MMDadoda	8/9/2024 6:15:49 AM	Peak Integrated by Software
VSTDICC005	VN083139.D	Vinyl Acetate	JOHN	8/8/2024 9:35:30 AM	MMDadoda	8/9/2024 6:15:49 AM	Peak Integrated by Software
VSTDICC001	VN083140.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:34 AM	MMDadoda	8/9/2024 6:15:51 AM	Peak Integrated by Software
VSTDICC001	VN083140.D	1,4-Dichlorobenzene	JOHN	8/8/2024 9:35:34 AM	MMDadoda	8/9/2024 6:15:51 AM	Peak Integrated by Software
VSTDICV050	VN083142.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:41 AM	MMDadoda	8/9/2024 6:15:52 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn081324	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN083246.D	1,2,3-Trichloropropane	MMDadoda	8/14/2024 5:14:33 AM	SAM	8/14/2024 5:25:05 AM	Peak Integrated by Software
VSTDCCC050	VN083246.D	Vinyl Acetate	MMDadoda	8/14/2024 5:14:33 AM	SAM	8/14/2024 5:25:05 AM	Peak Integrated by Software
VSTDCCC050	VN083271.D	1,2,3-Trichloropropane	MMDadoda	8/14/2024 5:14:48 AM	SAM	8/14/2024 5:25:19 AM	Peak Integrated by Software
VSTDCCC050	VN083271.D	Vinyl Acetate	MMDadoda	8/14/2024 5:14:48 AM	SAM	8/14/2024 5:25:19 AM	Peak Integrated by Software
VSTDCCC050	VN083273.D	1,2,3-Trichloropropane	JOHN	8/14/2024 9:36:48 AM	MMDadoda	8/14/2024 6:38:01 PM	Peak Integrated by Software
VSTDCCC050	VN083273.D	Vinyl Acetate	JOHN	8/14/2024 9:36:48 AM	MMDadoda	8/14/2024 6:38:01 PM	Peak Integrated by Software
VN0813WBS03	VN083276.D	1,2,3-Trichloropropane	JOHN	8/14/2024 9:36:57 AM	MMDadoda	8/14/2024 6:38:04 PM	Peak Integrated by Software
P3466-02MS	VN083291.D	1,2,3-Trichloropropane	MMDadoda	8/16/2024 4:11:03 AM	SAM	8/16/2024 4:11:50 AM	Peak Integrated by Software
P3466-03MSD	VN083292.D	1,2,3-Trichloropropane	MMDadoda	8/16/2024 4:11:05 AM	SAM	8/16/2024 4:11:52 AM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN080724

Review By	John Carlone	Review On	8/8/2024 9:36:00 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/9/2024 6:16:03 AM		
SubDirectory	VN080724	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129516
Initial Calibration Stds	VP129526,VP129527,VP129528,VP129529,VP129530,VP129531
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP129532
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083134.D	07 Aug 2024 10:09	JC\MD	Ok
2	VSTDICC100	VN083135.D	07 Aug 2024 10:33	JC\MD	Ok,M
3	VSTDICCC050	VN083136.D	07 Aug 2024 10:58	JC\MD	Ok,M
4	VSTDICC020	VN083137.D	07 Aug 2024 11:22	JC\MD	Ok,M
5	VSTDICC010	VN083138.D	07 Aug 2024 11:46	JC\MD	Ok,M
6	VSTDICC005	VN083139.D	07 Aug 2024 12:10	JC\MD	Ok,M
7	VSTDICC001	VN083140.D	07 Aug 2024 12:34	JC\MD	Ok,M
8	IBLK	VN083141.D	07 Aug 2024 13:22	JC\MD	Ok
9	VSTDICV050	VN083142.D	07 Aug 2024 14:49	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM		
SubDirectory	VN081324	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129669,VP129708
Initial Calibration Stds	
CCC	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083245.D	13 Aug 2024 09:54	JC\MD	Ok
2	VSTDCCC050	VN083246.D	13 Aug 2024 10:18	JC\MD	Ok,M
3	VN0813MBL01	VN083247.D	13 Aug 2024 10:52	JC\MD	Ok
4	VN0813WBL01	VN083248.D	13 Aug 2024 11:16	JC\MD	Ok
5	VN0813WBS01	VN083249.D	13 Aug 2024 11:40	JC\MD	Ok,M
6	P3429-02	VN083250.D	13 Aug 2024 12:06	JC\MD	Ok
7	P3440-01	VN083251.D	13 Aug 2024 12:30	JC\MD	Ok
8	P3440-02MS	VN083252.D	13 Aug 2024 12:55	JC\MD	Ok,M
9	P3440-03MSD	VN083253.D	13 Aug 2024 13:19	JC\MD	Ok,M
10	VN0813MBS01	VN083254.D	13 Aug 2024 13:43	JC\MD	Ok,M
11	P3393-20DL2	VN083255.D	13 Aug 2024 14:07	JC\MD	Ok
12	P3429-04	VN083256.D	13 Aug 2024 14:31	JC\MD	Ok
13	P3390-07 0.2PPB	VN083257.D	13 Aug 2024 14:55	JC\MD	Ok,M
14	P3390-07 0.5PPB	VN083258.D	13 Aug 2024 15:19	JC\MD	Ok,M
15	P3390-07 0.75PPB	VN083259.D	13 Aug 2024 15:43	JC\MD	Ok,M
16	P3390-07 2.5PPB	VN083260.D	13 Aug 2024 16:07	JC\MD	Ok,M
17	P3440-04	VN083261.D	13 Aug 2024 16:31	JC\MD	Ok
18	P3440-05	VN083262.D	13 Aug 2024 16:56	JC\MD	Ok
19	P3543-02	VN083263.D	13 Aug 2024 17:20	JC\MD	Ok
20	P3548-05	VN083264.D	13 Aug 2024 17:44	JC\MD	Ok
21	P3548-08	VN083265.D	13 Aug 2024 18:08	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM		
SubDirectory	VN081324	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129669,VP129708
Initial Calibration Stds	
CCC	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3548-11	VN083266.D	13 Aug 2024 18:33	JC\MD	Ok
23	P3548-14	VN083267.D	13 Aug 2024 18:57	JC\MD	Ok
24	PB162644TB	VN083268.D	13 Aug 2024 19:21	JC\MD	Ok
25	P3429-03	VN083269.D	13 Aug 2024 19:45	JC\MD	Dilution
26	PB162587TB	VN083270.D	13 Aug 2024 20:10	JC\MD	Ok
27	VSTDCCC050	VN083271.D	13 Aug 2024 20:34	JC\MD	Ok,M
28	BFB	VN083272.D	14 Aug 2024 01:50	JC\MD	Ok
29	VSTDCCC050	VN083273.D	14 Aug 2024 02:14	JC\MD	Ok,M
30	VN0813WBL02	VN083274.D	14 Aug 2024 03:22	JC\MD	Ok
31	VN0813WBS02	VN083275.D	14 Aug 2024 03:46	JC\MD	Not Ok
32	VN0813WBS03	VN083276.D	14 Aug 2024 04:10	JC\MD	Ok,M
33	P3450-01	VN083277.D	14 Aug 2024 04:52	JC\MD	Ok
34	P3450-02	VN083278.D	14 Aug 2024 05:16	JC\MD	Ok
35	P3450-03	VN083279.D	14 Aug 2024 05:40	JC\MD	Ok
36	P3450-04	VN083280.D	14 Aug 2024 06:04	JC\MD	Ok
37	P3467-01	VN083281.D	14 Aug 2024 06:28	JC\MD	Ok
38	P3467-02	VN083282.D	14 Aug 2024 06:52	JC\MD	Ok
39	P3451-01	VN083283.D	14 Aug 2024 07:16	JC\MD	Ok
40	P3451-02	VN083284.D	14 Aug 2024 07:40	JC\MD	Ok
41	P3534-05	VN083285.D	14 Aug 2024 08:04	JC\MD	Ok
42	P3534-06	VN083286.D	14 Aug 2024 08:28	JC\MD	Ok
43	P3466-01	VN083287.D	14 Aug 2024 08:52	JC\MD	Ok,M
44	P3466-04	VN083288.D	14 Aug 2024 09:16	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM		
SubDirectory	VN081324	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129669,VP129708
Initial Calibration Stds	
CCC	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P3466-05	VN083289.D	14 Aug 2024 09:40	JC\MD	Ok
46	P3466-06	VN083290.D	14 Aug 2024 10:04	JC\MD	Ok
47	P3466-02MS	VN083291.D	14 Aug 2024 10:28	JC\MD	Ok,M
48	P3466-03MSD	VN083292.D	14 Aug 2024 10:52	JC\MD	Ok,M
49	VSTDCCC050	VN083293.D	14 Aug 2024 11:16	JC\MD	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN080724

Review By	John Carlone	Review On	8/8/2024 9:36:00 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/9/2024 6:16:03 AM		
SubDirectory	VN080724	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129516
Initial Calibration Stds	VP129526,VP129527,VP129528,VP129529,VP129530,VP129531
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP129532
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN083134.D	07 Aug 2024 10:09		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN083135.D	07 Aug 2024 10:33	Good for DOD	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN083136.D	07 Aug 2024 10:58	QR- 43	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN083137.D	07 Aug 2024 11:22		JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN083138.D	07 Aug 2024 11:46		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN083139.D	07 Aug 2024 12:10		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN083140.D	07 Aug 2024 12:34		JC\MD	Ok,M
8	IBLK	IBLK	VN083141.D	07 Aug 2024 13:22		JC\MD	Ok
9	VSTDICV050	ICVVN080724	VN083142.D	07 Aug 2024 14:49		JC\MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM		
SubDirectory	VN081324	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129669,VP129708
Initial Calibration Stds	
CCC	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN083245.D	13 Aug 2024 09:54		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN083246.D	13 Aug 2024 10:18	V13516	JC\MD	Ok,M
3	VN0813MBL01	VN0813MBL01	VN083247.D	13 Aug 2024 10:52		JC\MD	Ok
4	VN0813WBL01	VN0813WBL01	VN083248.D	13 Aug 2024 11:16		JC\MD	Ok
5	VN0813WBS01	VN0813WBS01	VN083249.D	13 Aug 2024 11:40		JC\MD	Ok,M
6	P3429-02	931-K1-WS-073124	VN083250.D	13 Aug 2024 12:06	vial B pH<2	JC\MD	Ok
7	P3440-01	923-K1-WS-080124	VN083251.D	13 Aug 2024 12:30	vial A pH<2	JC\MD	Ok
8	P3440-02MS	923-K1-WS-080124MS	VN083252.D	13 Aug 2024 12:55	vial A pH<2	JC\MD	Ok,M
9	P3440-03MSD	923-K1-WS-080124MS	VN083253.D	13 Aug 2024 13:19	vial A pH<2	JC\MD	Ok,M
10	VN0813MBS01	VN0813MBS01	VN083254.D	13 Aug 2024 13:43		JC\MD	Ok,M
11	P3393-20DL2	S-849-GI-SO-13.5-14-0	VN083255.D	13 Aug 2024 14:07		JC\MD	Ok
12	P3429-04	TB-01-073124	VN083256.D	13 Aug 2024 14:31	vial A pH<2 TB	JC\MD	Ok
13	P3390-07 0.2PPB	LOD-MDL-WATER-01-(	VN083257.D	13 Aug 2024 14:55		JC\MD	Ok,M
14	P3390-07 0.5PPB	LOD-MDL-WATER-01-(	VN083258.D	13 Aug 2024 15:19		JC\MD	Ok,M
15	P3390-07 0.75PPB	LOD-MDL-WATER-01-(	VN083259.D	13 Aug 2024 15:43		JC\MD	Ok,M
16	P3390-07 2.5PPB	LOD-MDL-WATER-01-(	VN083260.D	13 Aug 2024 16:07		JC\MD	Ok,M
17	P3440-04	922-K1-WS-080124	VN083261.D	13 Aug 2024 16:31	vial A pH<2	JC\MD	Ok
18	P3440-05	TB-01-080124	VN083262.D	13 Aug 2024 16:56	vial A pH<2 TB	JC\MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM		
SubDirectory	VN081324	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129669,VP129708
Initial Calibration Stds	
CCC	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3543-02	ARS20-0019	VN083263.D	13 Aug 2024 17:20	vial A pH#5.0	JC\MD	Ok
20	P3548-05	RBR200036	VN083264.D	13 Aug 2024 17:44	vial A pH#5.0	JC\MD	Ok
21	P3548-08	343	VN083265.D	13 Aug 2024 18:08	vial A pH#5.0	JC\MD	Ok
22	P3548-11	289	VN083266.D	13 Aug 2024 18:33	vial A pH#5.0	JC\MD	Ok
23	P3548-14	IN-SITU-SOIL	VN083267.D	13 Aug 2024 18:57	vial A pH#5.0	JC\MD	Ok
24	PB162644TB	PB162644TB	VN083268.D	13 Aug 2024 19:21		JC\MD	Ok
25	P3429-03	925-K1-WS-073124	VN083269.D	13 Aug 2024 19:45	vial A pH<2 Need 20X	JC\MD	Dilution
26	PB162587TB	PB162587TB	VN083270.D	13 Aug 2024 20:10		JC\MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VN083271.D	13 Aug 2024 20:34		JC\MD	Ok,M
28	BFB	BFB	VN083272.D	14 Aug 2024 01:50		JC\MD	Ok
29	VSTDCCC050	VSTDCCC050	VN083273.D	14 Aug 2024 02:14		JC\MD	Ok,M
30	VN0813WBL02	VN0813WBL02	VN083274.D	14 Aug 2024 03:22		JC\MD	Ok
31	VN0813WBS02	VN0813WBS02	VN083275.D	14 Aug 2024 03:46	Surrogate Fail	JC\MD	Not Ok
32	VN0813WBS03	VN0813WBS03	VN083276.D	14 Aug 2024 04:10		JC\MD	Ok,M
33	P3450-01	921-J-WP0-0.25-08012	VN083277.D	14 Aug 2024 04:52	vial A pH<2	JC\MD	Ok
34	P3450-02	923-K1-WP0-0.25-0801	VN083278.D	14 Aug 2024 05:16	vial A pH<2	JC\MD	Ok
35	P3450-03	922-K1-WP0-0.25-0801	VN083279.D	14 Aug 2024 05:40	vial A pH<2	JC\MD	Ok
36	P3450-04	TB-02-080124	VN083280.D	14 Aug 2024 06:04	vial A pH<2 TB	JC\MD	Ok
37	P3467-01	919-J-WS-080224	VN083281.D	14 Aug 2024 06:28	vial A pH<2	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM		
SubDirectory	VN081324	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129669,VP129708
Initial Calibration Stds	
CCC	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P3467-02	TB-03-080224	VN083282.D	14 Aug 2024 06:52	vial A pH<2 TB	JC\MD	Ok
39	P3451-01	921-J-WS-080124	VN083283.D	14 Aug 2024 07:16	vial A pH<2	JC\MD	Ok
40	P3451-02	TB-03-080124	VN083284.D	14 Aug 2024 07:40	vial A pH<2 TB	JC\MD	Ok
41	P3534-05	PIPE-BLAST-GRIT(FB)	VN083285.D	14 Aug 2024 08:04	vial A pH<2 FB	JC\MD	Ok
42	P3534-06	HP-IP(FB)	VN083286.D	14 Aug 2024 08:28	vial A pH<2 FB	JC\MD	Ok
43	P3466-01	924-K1-WP0-0.25-0802	VN083287.D	14 Aug 2024 08:52	vial A pH<2	JC\MD	Ok,M
44	P3466-04	932-K1-WP0-0.25-0802	VN083288.D	14 Aug 2024 09:16	vial A pH<2	JC\MD	Ok
45	P3466-05	919-J-WP0-0.25-08022	VN083289.D	14 Aug 2024 09:40	vial A pH<2	JC\MD	Ok
46	P3466-06	TB-02-080224	VN083290.D	14 Aug 2024 10:04	vial A pH<2	JC\MD	Ok
47	P3466-02MS	924-K1-WP0-0.25-0802	VN083291.D	14 Aug 2024 10:28	vial A pH<2	JC\MD	Ok,M
48	P3466-03MSD	924-K1-WP0-0.25-0802	VN083292.D	14 Aug 2024 10:52	vial A pH<2	JC\MD	Ok,M
49	VSTDCCC050	VSTDCCC050EC	VN083293.D	14 Aug 2024 11:16		JC\MD	Ok

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : P3451

Test : VOCMS Group6

Prepbatch ID :

Sequence ID/Qc Batch ID: VN081324,

Standard ID :
VP126666,VP128290,VP128298,VP128523,VP128632,VP128634,VP128762,VP128766,VP129196,VP129228,VP129232,VP129235,VP129236,VP129238,VP129517,VP129669,VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129708,VP129709,VP129710,

Chemical ID :
V12794,V12798,V12966,V13390,V13444,V13448,V13462,V13463,V13539,V13581,V13707,V13708,V13800,V13801,V13812,V13952,V13953,V13959,V14016,V14017,V14093,V14103,V14104,V14123,V14141,V14142,V14143,V14147,V14148,V14169,V14170,V14177,V14202,V14207,V14219,V14288,V14411,V14412,V14413,V14414,V14415,W3112,

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP126666	03/19/2024	09/19/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/28/2024

FROM 0.80000ml of V13708 + 49.20000ml of V14141 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP128290	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/12/2024

FROM 0.25000ml of V13390 + 24.75000ml of V14148 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP128298	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/12/2024

FROM 0.10000ml of V14288 + 9.90000ml of V14148 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
251	8260 Internal STD & Surrogate Mix, 250PPM	VP128523	06/10/2024	12/10/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/22/2024

FROM 0.25000ml of V13707 + 0.25000ml of V14288 + 24.50000ml of V14142 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP128632	06/25/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.80000ml of V13581 + 9.20000ml of V14147 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1818	8260 Working Std(2-CVE)-SS, 50ppm	VP128634	06/25/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 4.68750ml of V14147 + 0.31250ml of VP128632 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP128762	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.50000ml of V12798 + 1.50000ml of V12794 + 23.00000ml of V14147 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP128766	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 1.50000ml of V13462 + 1.50000ml of V13463 + 12.00000ml of V14147 = Final Quantity: 15.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
825	8260 Working STD (BCM)-Second source, 10PPM	VP129196	07/22/2024	01/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/26/2024

FROM 0.10000ml of V12966 + 9.90000ml of V14143 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP129228	07/25/2024	08/24/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024

FROM 1.00000ml of V14411 + 1.00000ml of V14412 + 1.00000ml of V14413 + 1.00000ml of V14414 + 21.00000ml of V14143 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP129232	07/25/2024	08/23/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024

FROM 0.60000ml of V14414 + 1.00000ml of V14415 + 8.40000ml of V14143 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
826	8260 Working STD (Acrolein)-Second source, 50PPM	VP129235	07/25/2024	08/23/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024

FROM 4.68750ml of V14143 + 0.31250ml of VP129232 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP129236	07/22/2024	08/31/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024

FROM 0.16000ml of V13448 + 0.80000ml of V13812 + 0.80000ml of V13959 + 0.80000ml of V14093 + 0.80000ml of V14123 + 0.80000ml of V14177 + 1.60000ml of V13539 + 4.24000ml of V14143 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
820	8260 Calibration Working STD Mix-Second source, 10PPM	VP129238	07/22/2024	08/31/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024

FROM 4.68750ml of V14143 + 0.31250ml of VP129236 = Final Quantity: 5.000 ml

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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
589	BFB TUNE CHECK	VP129669	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP129670	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129228 + 0.01250ml of VP129517 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP129671	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129228 + 0.01250ml of VP129517 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2390	0.2PPB LOD, 8260-Water	VP129701	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.98840ml of W3112 + 0.00080ml of VP128634 + 0.00080ml of VP129196 + 0.00080ml of VP129235 + 0.00080ml of VP129238 + 0.00800ml of VP128523 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
834	0.5 PPB LOD, 8260-WATER	VP129702	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.98300ml of W3112 + 0.00200ml of VP128634 + 0.00200ml of VP129196 + 0.00200ml of VP129235 + 0.00200ml of VP129238 + 0.00800ml of VP128523 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
891	0.75 PPB LOD, 8260-WATER	VP129703	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.97000ml of W3112 + 0.00300ml of VP128634 + 0.00300ml of VP129196 + 0.00300ml of VP129235 + 0.00300ml of VP129238 + 0.00500ml of VP126666 + 0.00800ml of VP128298 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
837	2.5 PPB LOD, 8260-WATER	VP129704	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.94200ml of W3112 + 0.00800ml of VP128523 + 0.01000ml of VP128634 + 0.01000ml of VP129196 + 0.01000ml of VP129235 + 0.01000ml of VP129238 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP129708	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP129709	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129228 + 0.01250ml of VP129517 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP129710	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129228 + 0.01250ml of VP129517 = Final Quantity: 40.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	01/22/2025	07/22/2024 / SAM	07/06/2022 / SAM	V12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	12/08/2024	12/08/2023 / SAM	01/13/2023 / SAM	V13390

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	12/14/2024	06/14/2024 / SAM	01/23/2023 / SAM	V13444

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	12/03/2024	06/03/2024 / SAM	01/23/2023 / SAM	V13448

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13462

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13463

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0186767	11/29/2024	05/29/2024 / SAM	01/27/2023 / SAM	V13539

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	12/25/2024	06/25/2024 / SAM	01/30/2023 / SAM	V13581

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	09/19/2024	03/19/2024 / SAM	04/12/2023 / SAM	V13708

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	01/30/2025	07/30/2024 / SAM	05/31/2023 / SAM	V13800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	12/28/2024	06/28/2024 / SAM	05/31/2023 / SAM	V13801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0197644	11/29/2024	05/29/2024 / SAM	05/31/2023 / SAM	V13812

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13953

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0199224	12/31/2024	07/22/2024 / SAM	09/25/2023 / SAM	V13959

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	12/14/2024	06/14/2024 / SAM	11/22/2023 / SAM	V14016

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	12/14/2024	06/14/2024 / SAM	11/22/2023 / SAM	V14017

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0205177	11/14/2024	05/14/2024 / SAM	12/22/2023 / SAM	V14093

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0205179	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0205179	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	011624	12/03/2024	06/03/2024 / SAM	01/17/2024 / SAM	V14123

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	09/19/2024	03/19/2024 / SAM	02/06/2024 / SAM	V14141

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	12/10/2024	06/10/2024 / SAM	02/06/2024 / SAM	V14142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	12/11/2024	06/11/2024 / pedro	02/06/2024 / SAM	V14147

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	11/23/2024	05/23/2024 / pedro	02/06/2024 / SAM	V14148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14169

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14170

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	12/03/2024	06/03/2024 / SAM	02/20/2024 / SAM	V14177

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14202

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14219

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	06/10/2025	06/10/2024 / SAM	04/15/2024 / SAM	V14288

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14411

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14412

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14413

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14414

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14415

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

12

ANAB ISO 17034 Accredit
AR-1539 Certificate Number
https://Absolutestandards.cc

CERTIFIED WEIGHT REPORT

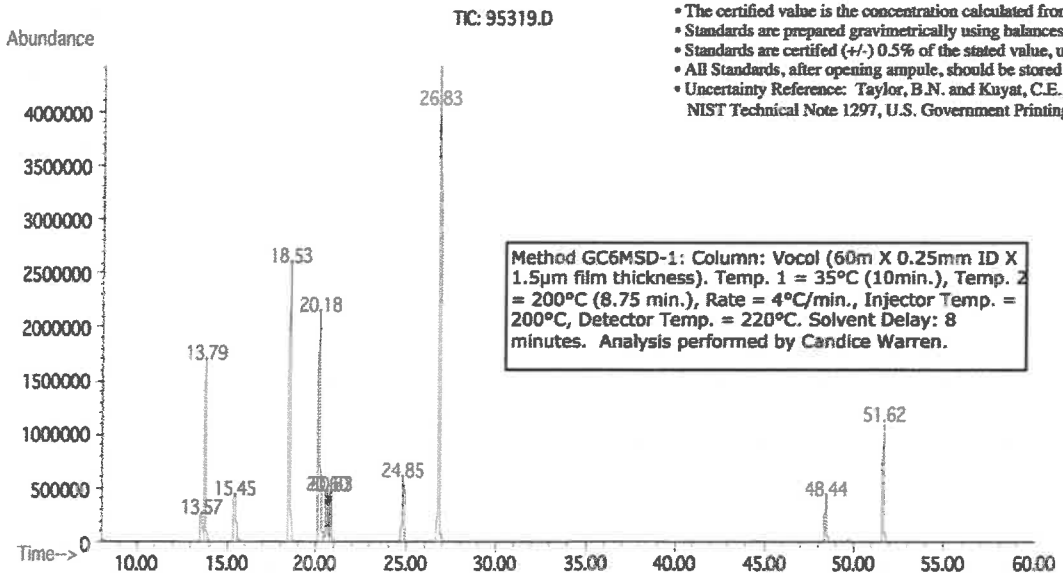
Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
Expiration Date: 011627
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EH471-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By:	Prashant Chauhan	011624 DATE
Reviewed By:	Pedro L. Rentas	011624 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	ori-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7.	Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	ori-mus 2250mg/kg
8.	Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	ori-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	ori-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	ori-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021524
Description: Universal VOA Megamix
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): Methanol Lot# EG359-USQ12

Formulated By: Mario Luis 021524 DATE

Reviewed By: Pedro L. Rentas 021524 DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

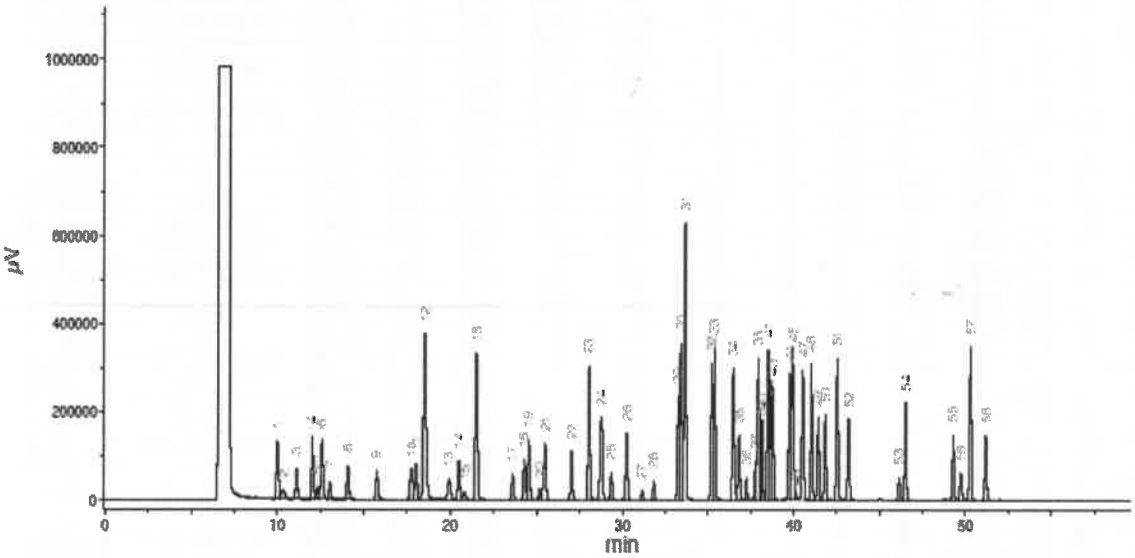
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21060	2000.2	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20570	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/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	40005.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1260mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=6.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	49.22
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): 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

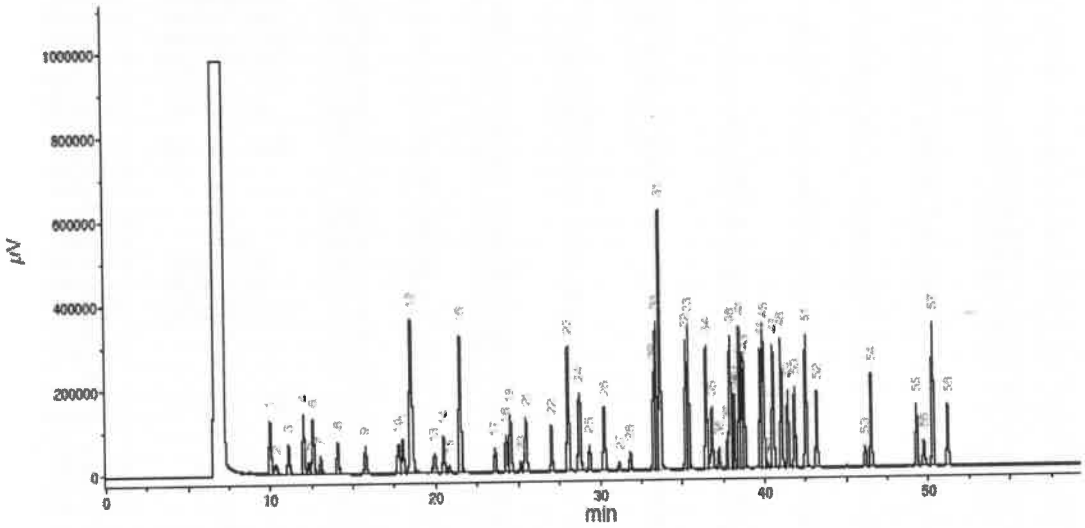
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	(0381)	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)	SHBF6718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethene	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
35	cis-1,4-Dichloro-2-Butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty
		5E-05	Balance Uncertainty

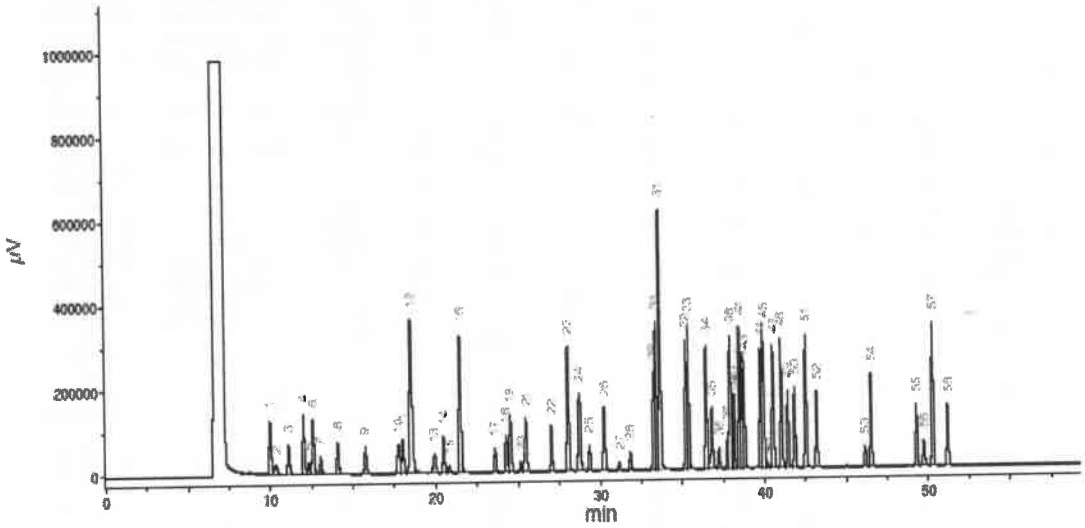
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0361)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.6	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.
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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

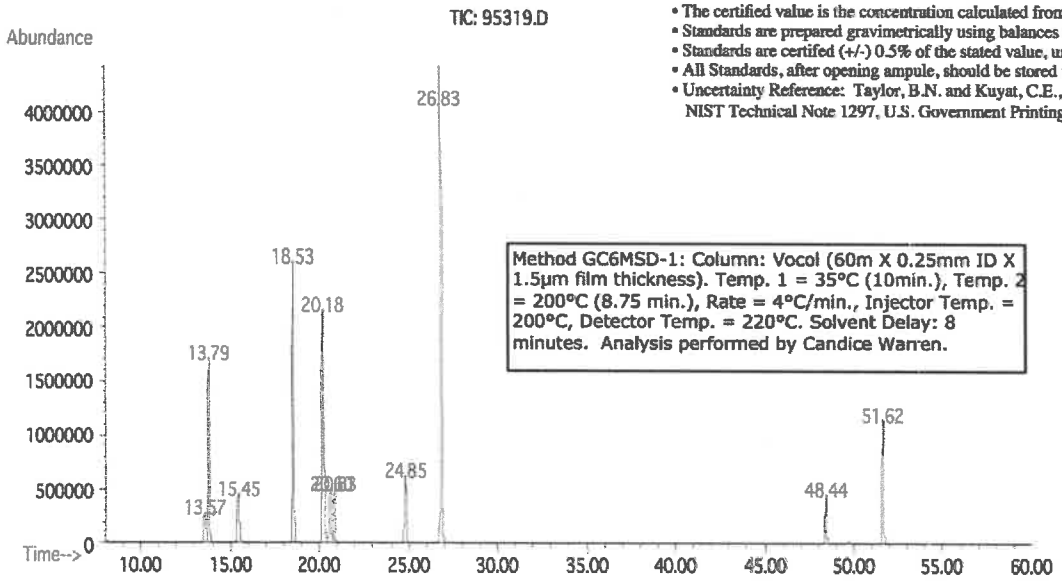
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

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.

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Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

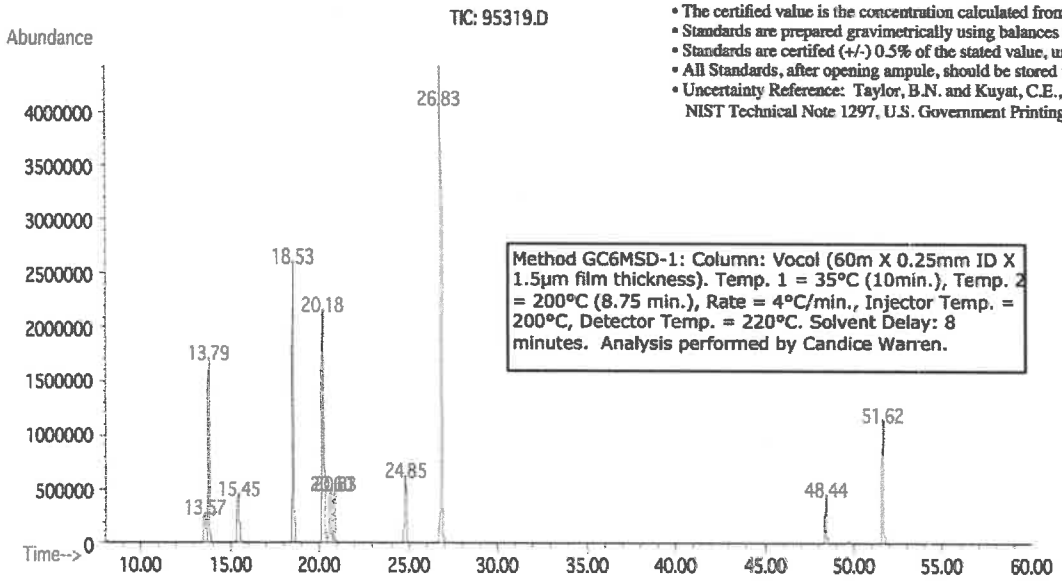
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

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
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Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Water	102422Q

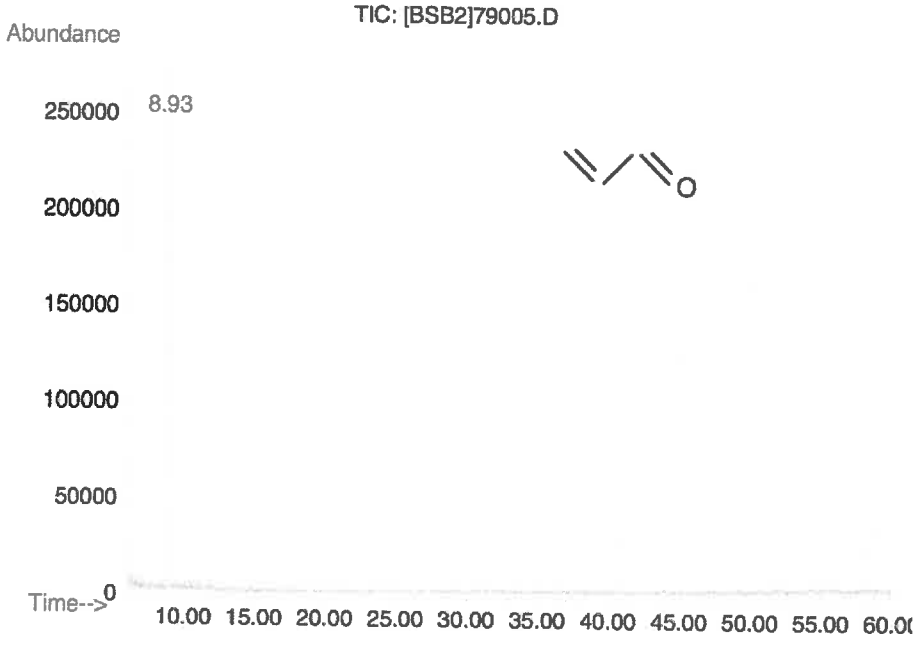
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

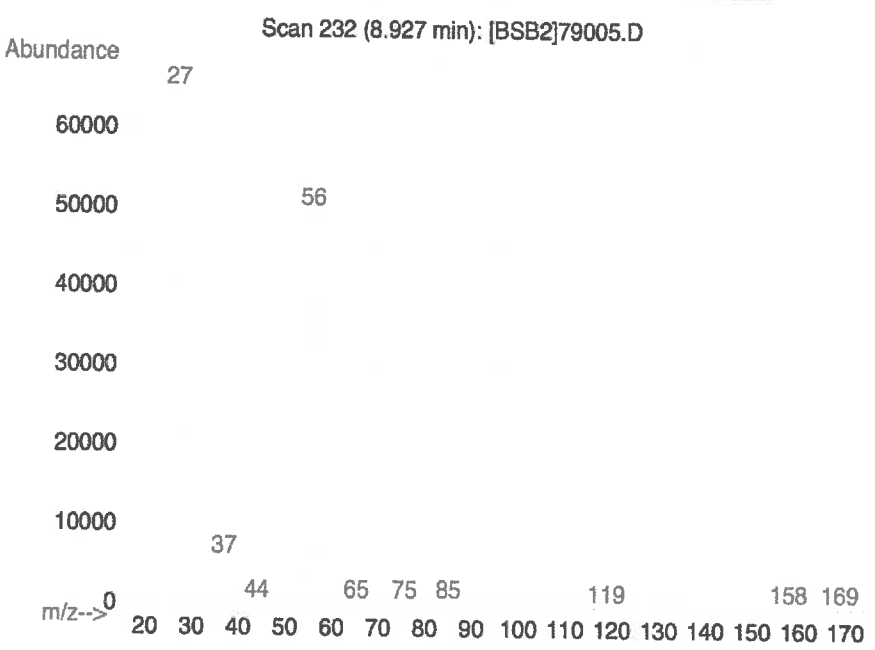
Gabriel Helland 072423
Formulated By: Gabriel Helland DATE

Pedro Rentas 072423
Reviewed By: Pedro L. Rentas DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrolein	5	103755R09M	5000	97.1	0.5	0.05160	0.05170	5009.2	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	May 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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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

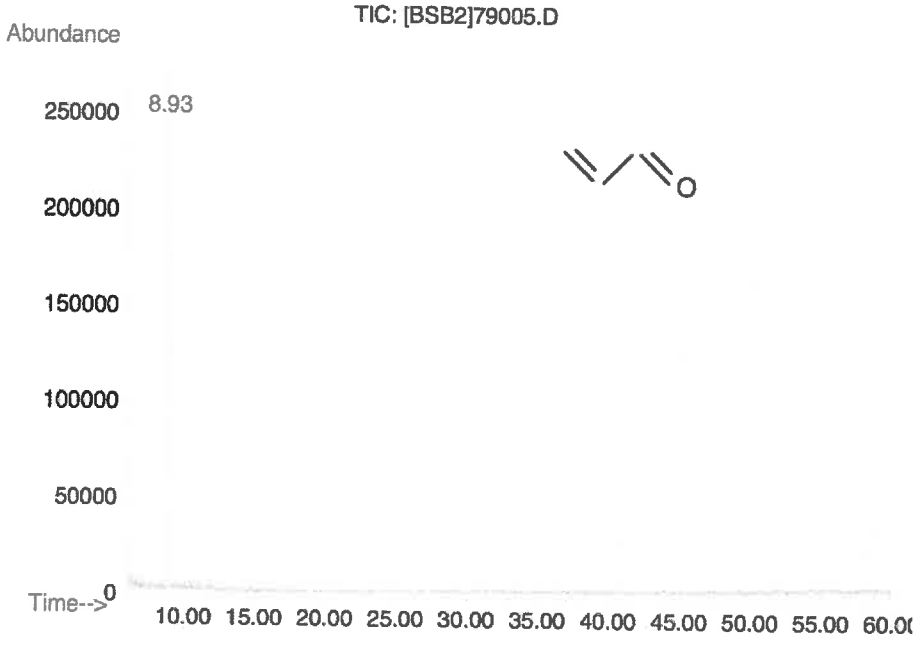
Gabriel Helland 072423
Formulated By: Gabriel Helland DATE

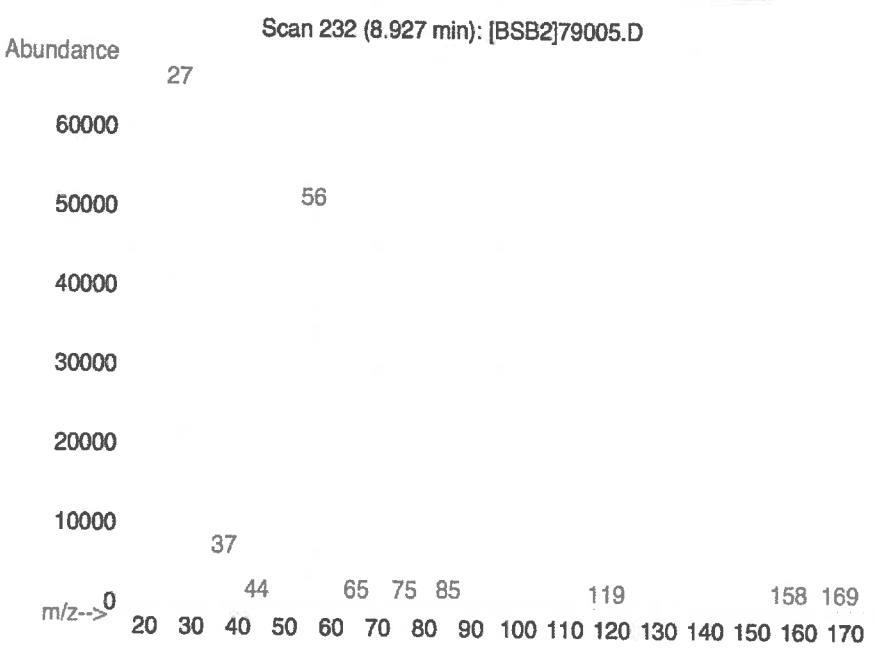
Pedro Rentas 072423
Reviewed By: Pedro L. Rentas DATE

Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R09M	5000	97.1	0.5	0.05160	0.05170	5009.2	52.5	107-02-8	0.1 ppm	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.





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- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	May 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water: Completely miscible

Appearance and Odor: CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: NA
Conditions to avoid: NA
Materials to avoid: NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat: NA
LC50 Inhalation - Rat: NA
LD50 Dermal - Guinea pig: NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50: NA
EC50: NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Water	102422Q

5 Sony

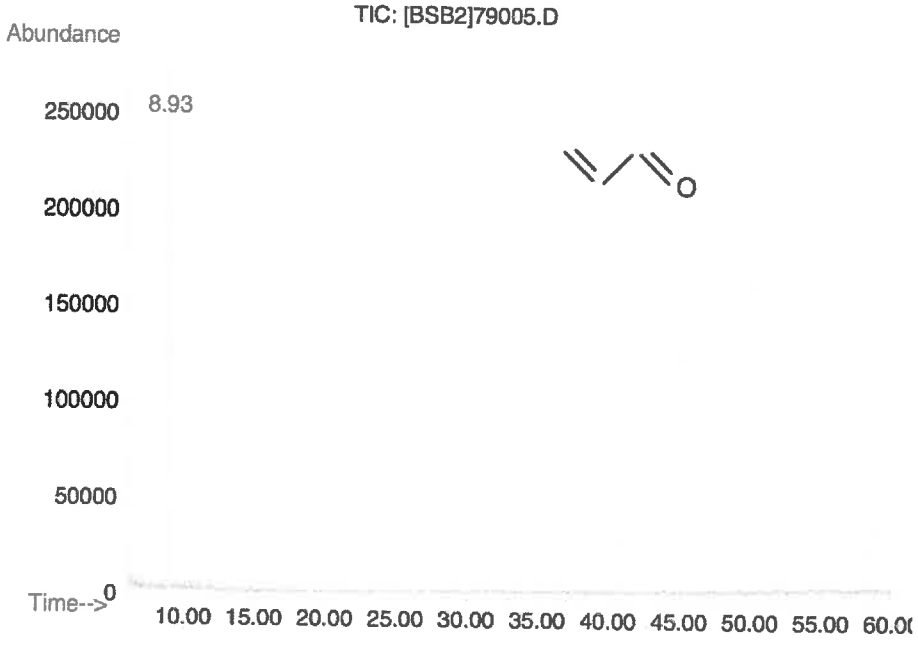
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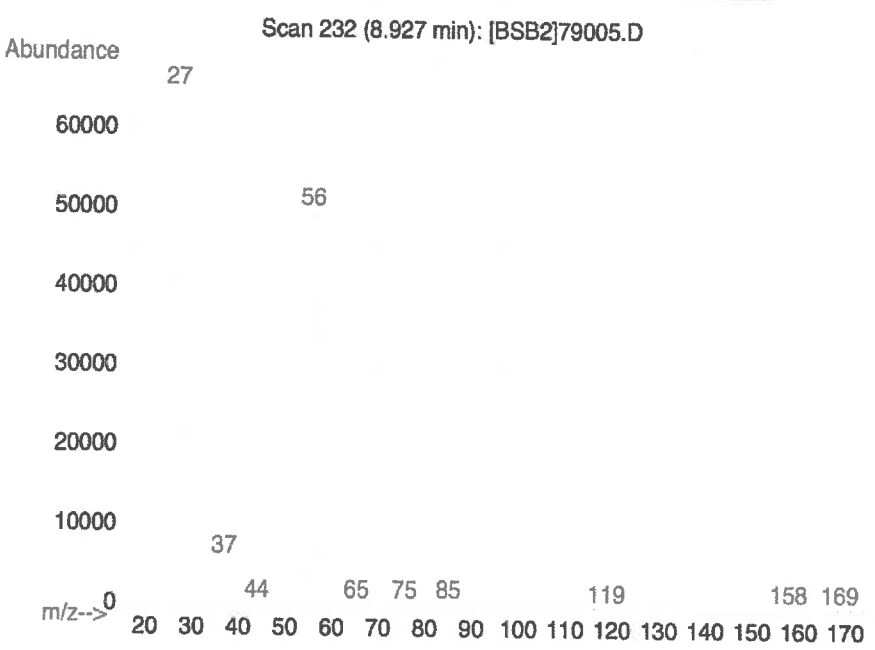
Gabriel Helland 072423
Formulated By: Gabriel Helland DATE

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

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Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	May 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

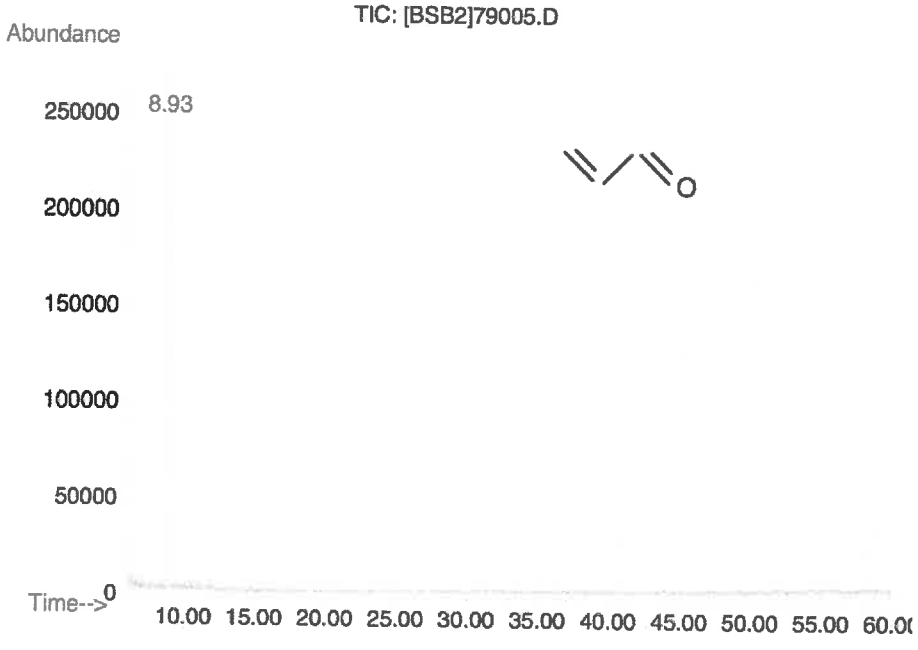
Solvent(s):	Lot#
Water	102422Q

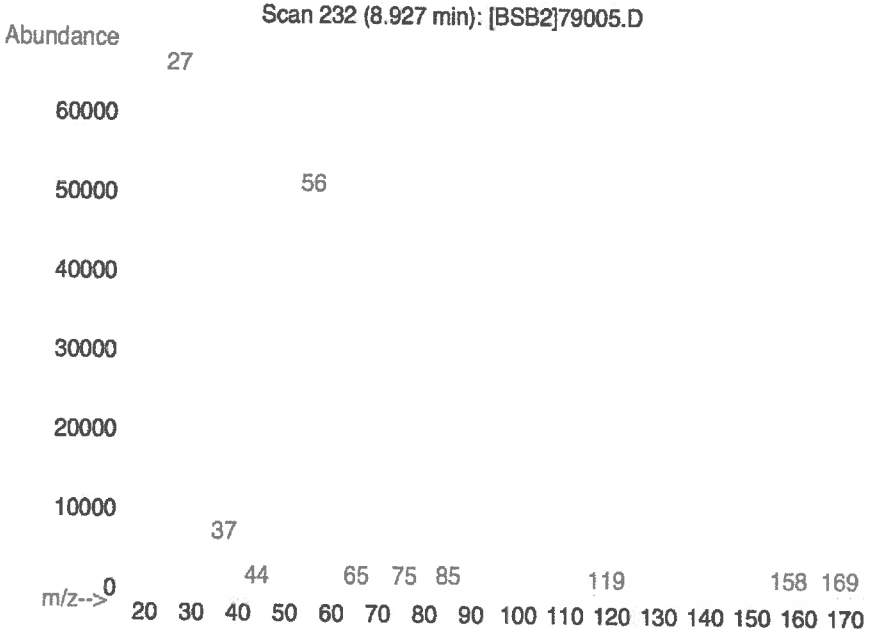
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Gabriel Helland	072423
Formulated By: Gabriel Helland	DATE
Pedro Rentas	072423
Reviewed By: Pedro L. Rentas	DATE

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.





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	Hamden CT, 06514	Date Prepared/Revised	May 1, 2022

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GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

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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.
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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.

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Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water: Completely miscible

Appearance and Odor: CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: NA
Conditions to avoid: NA
Materials to avoid: NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat: NA
LC50 Inhalation - Rat: NA
LD50 Dermal - Guinea pig: NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50: NA
EC50: NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

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Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

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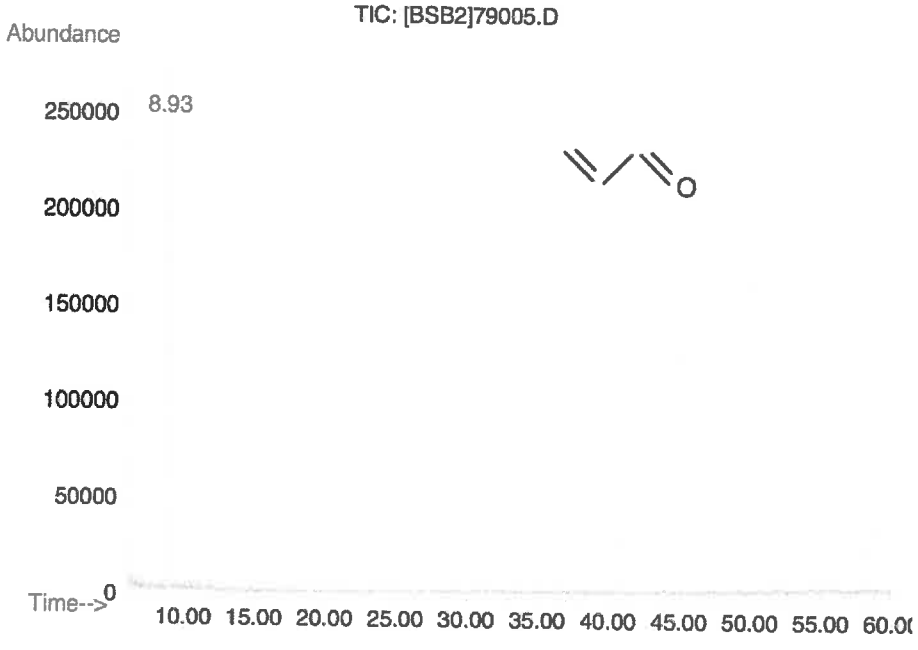
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Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

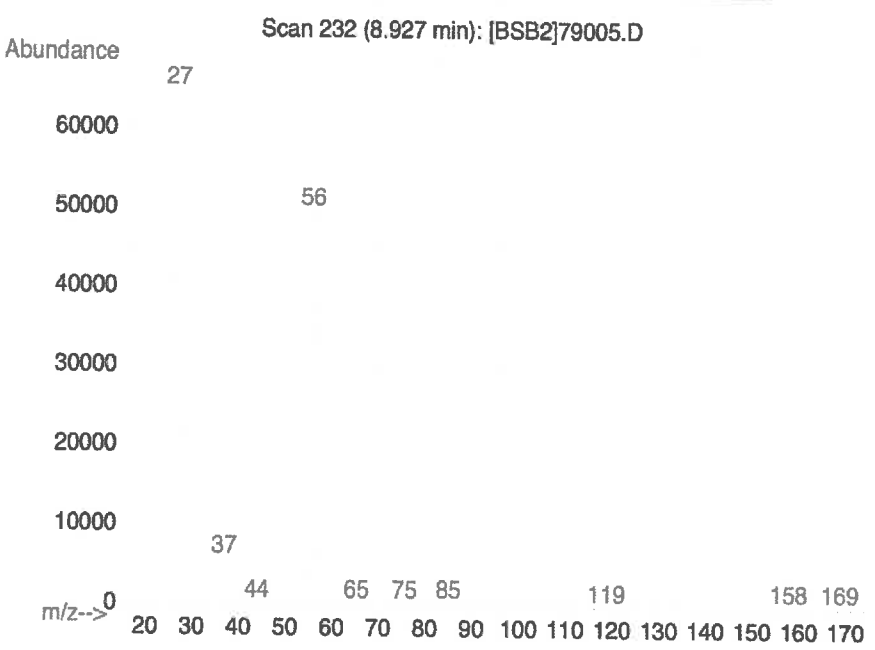
Gabriel Helland 072423
Formulated By: Gabriel Helland DATE

Pedro Rentas 072423
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	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.





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GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

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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

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Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water: Completely miscible

Appearance and Odor: CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: NA
Conditions to avoid: NA
Materials to avoid: NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat: NA
LC50 Inhalation - Rat: NA
LD50 Dermal - Guinea pig: NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50: NA
EC50: NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

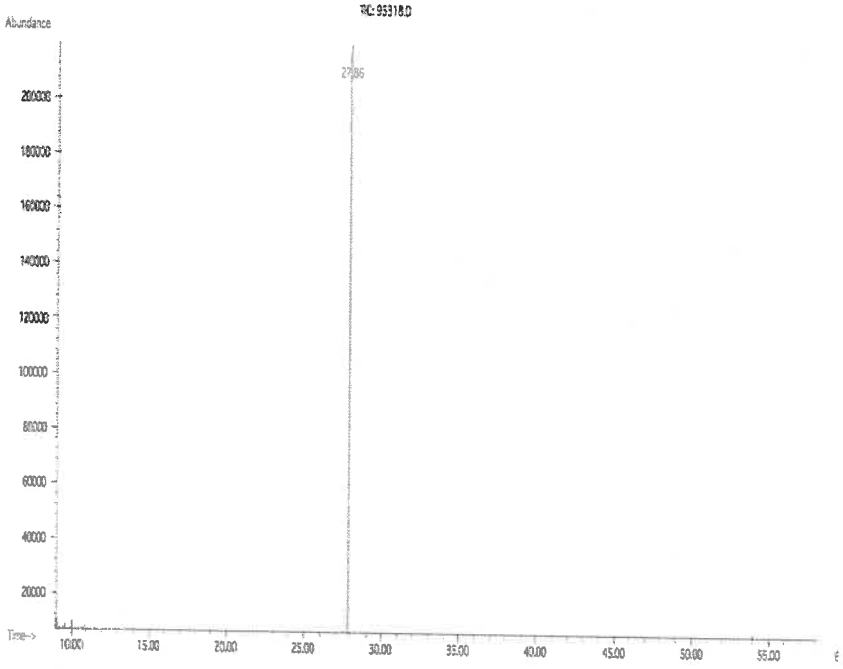
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

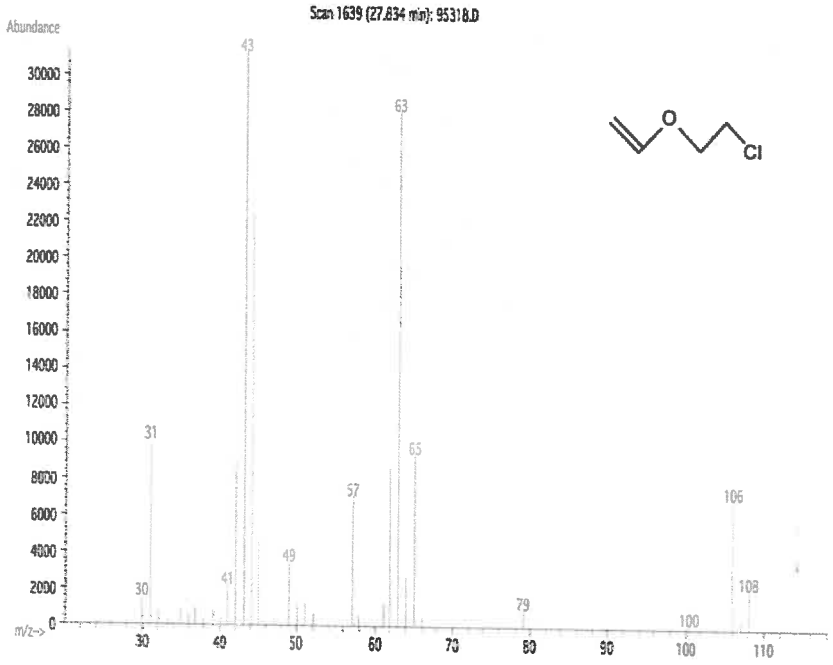
Weight(s) shown below were combined and diluted to (mL): 50.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Formulated By: Eli Aliaga	111722 DATE
Reviewed By: Pedro L. Rentas	111722 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

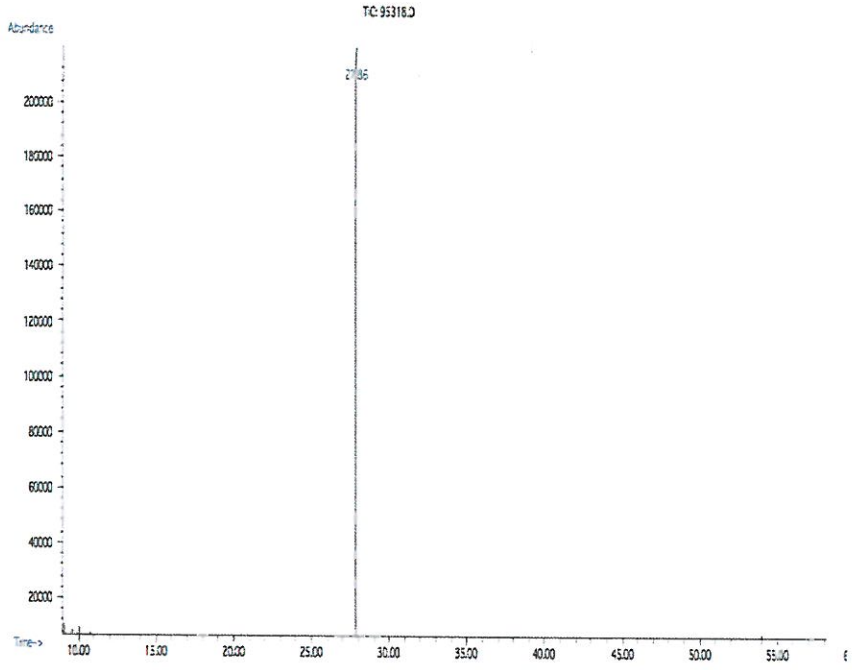
Solvent(s):	Lot#
Methanol	EA899-US

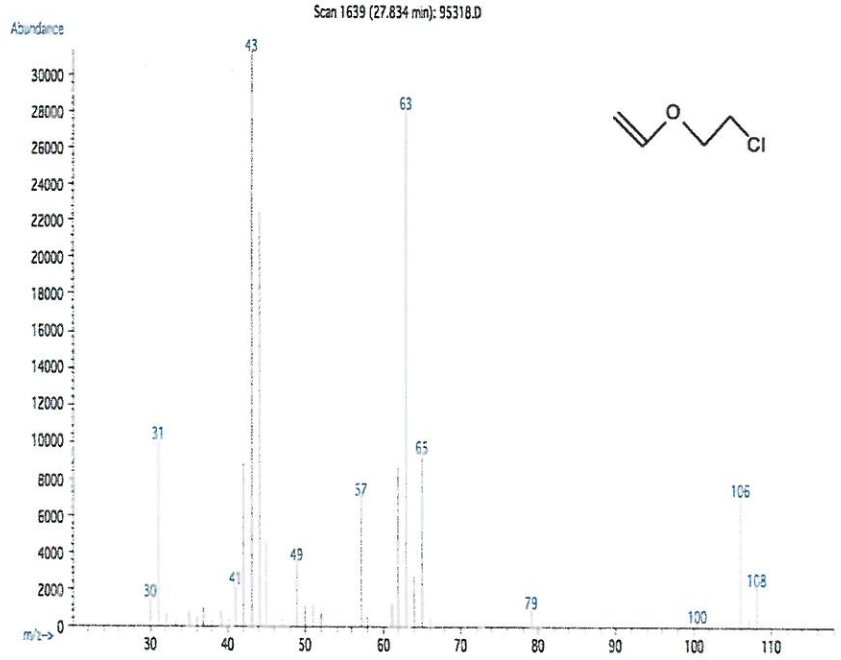
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 30.0 0.0003 Flask Uncertainty

Formulated By:	Benson Chan	121321 DATE
Reviewed By:	Pedro L. Rentas	121321 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

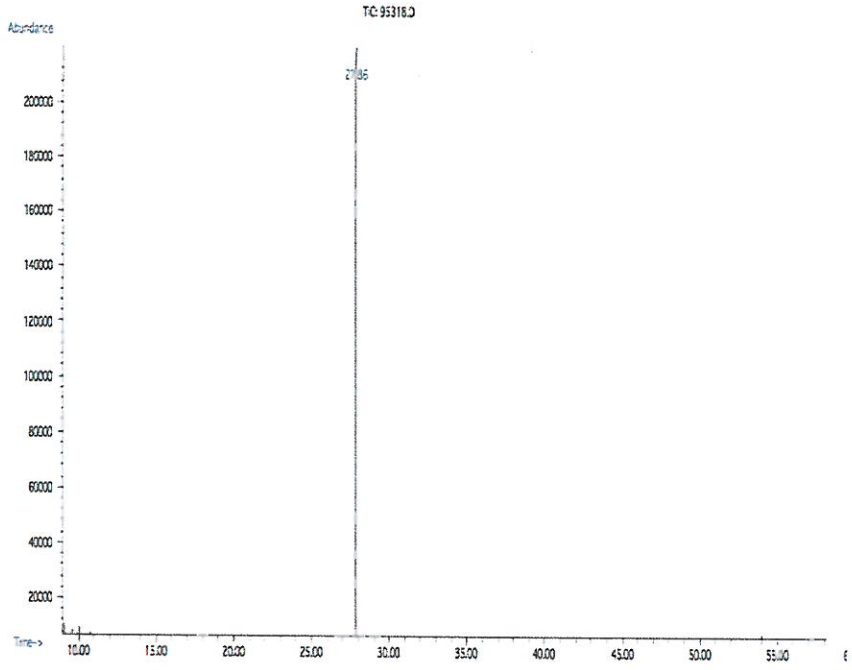
Solvent(s):	Lot#
Methanol	EA899-US

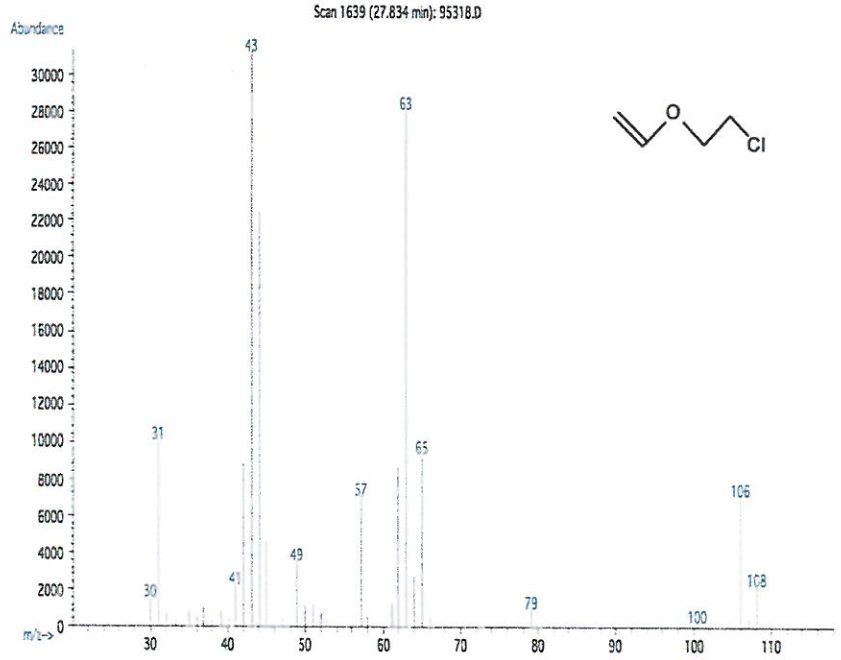
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 30.0 0.0003 Flask Uncertainty

Formulated By:	Benson Chan	121321 DATE
Reviewed By:	Pedro L. Rentas	121321 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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RESTEK
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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0186767

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot MKCQ7914) **Purity** 99%	5,046.8 µg/mL	+/- 29.3427 µg/mL +/- 304.4978 µg/mL +/- 305.2207 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBN2844) **Purity** 99%	5,048.8 µg/mL	+/- 29.3544 µg/mL +/- 304.6185 µg/mL +/- 305.3417 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBN3601) **Purity** 99%	5,045.0 µg/mL	+/- 29.3321 µg/mL +/- 304.3872 µg/mL +/- 305.1099 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKCQ6663) **Purity** 99%	5,045.3 µg/mL	+/- 29.3340 µg/mL +/- 304.4073 µg/mL +/- 305.1300 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

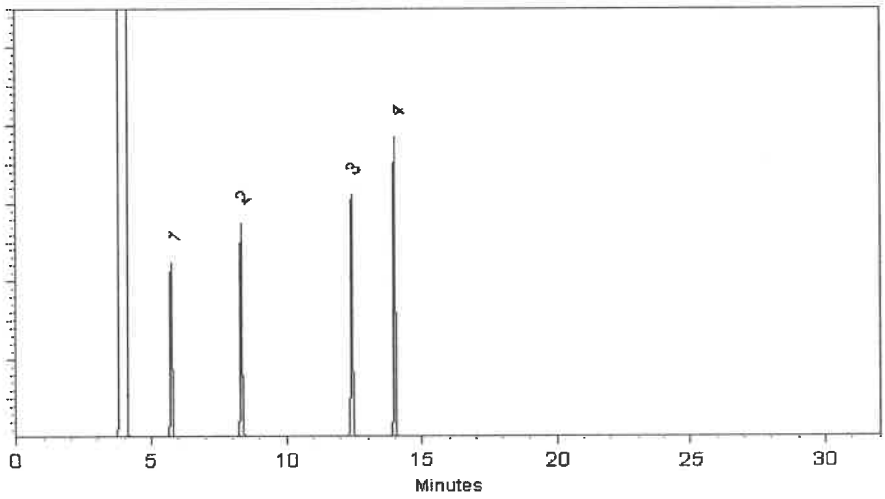
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery - Operations Tech I

Date Mixed: 28-Jun-2022 **Balance:** B251644995

Christie Mills - Operations Tech II - ARM QC

Date Passed: 30-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0181905

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	50,126.0 µg/mL	+/- 293.4988 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,073.7654 µg/mL	Unstressed
	Purity 99%		+/- 1,104.9494 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

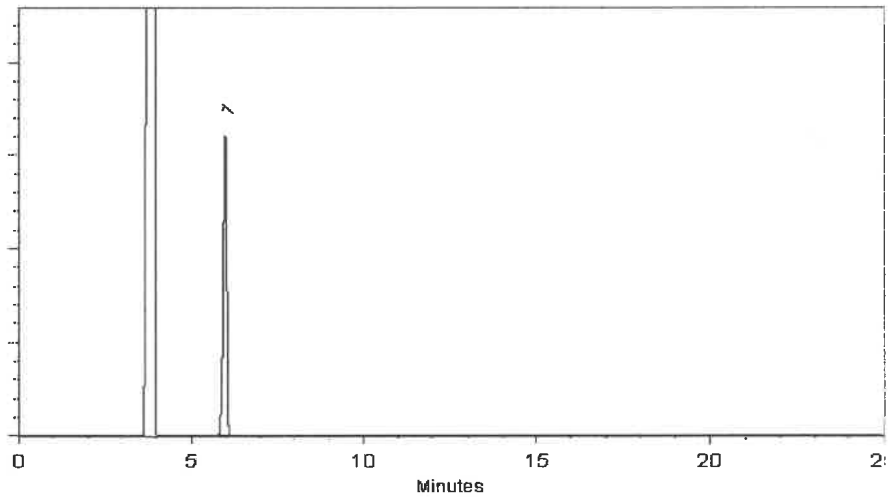
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022 **Balance:** B442140311

Marlina Cowan - Operations Tech I

Date Passed: 21-Feb-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

4 J

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0191703

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	50,122.0 µg/mL	+/- 293.4753 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot 101619K21F-1)		+/- 1,073.6797 µg/mL	Unstressed
	Purity 99%		+/- 1,104.8612 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

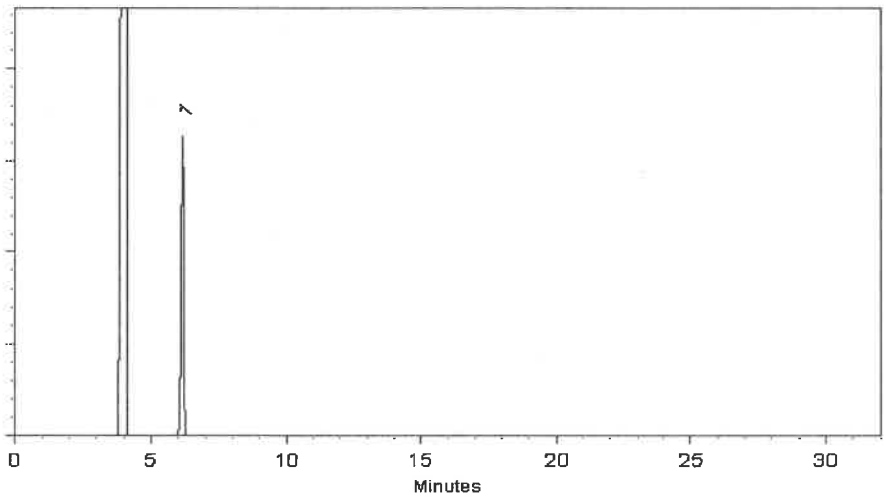
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

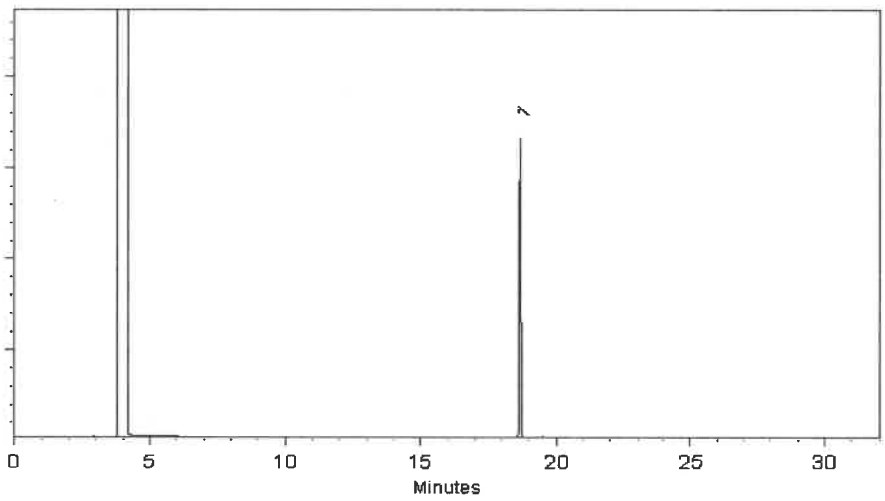
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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.)

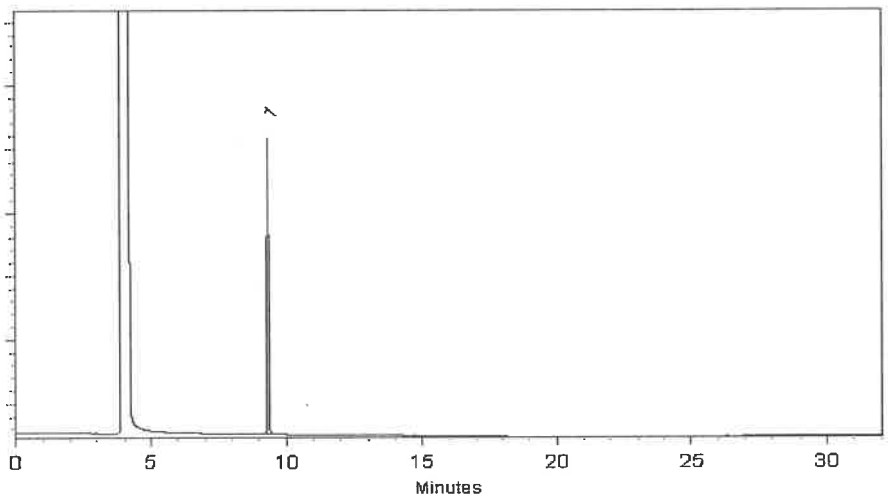
Inj. Temp:
200°C

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.

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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.)

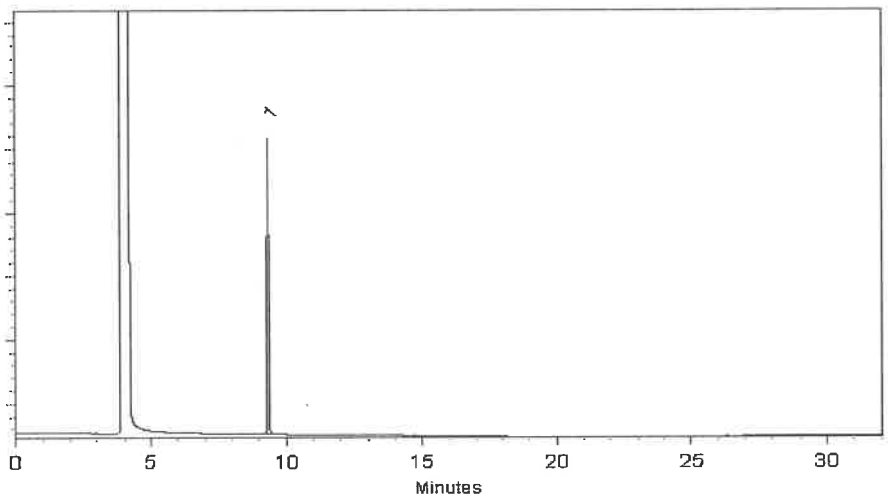
Inj. Temp:
200°C

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.

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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.

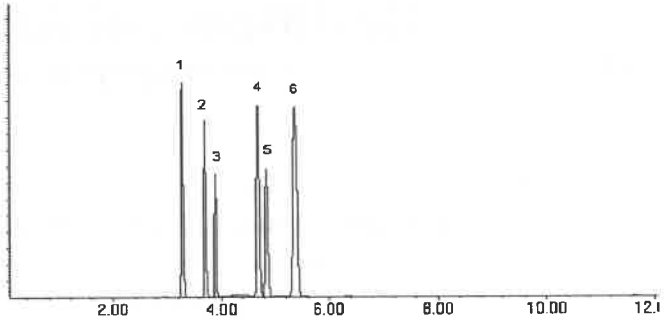
Inj. Temp:
200°C

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:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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.

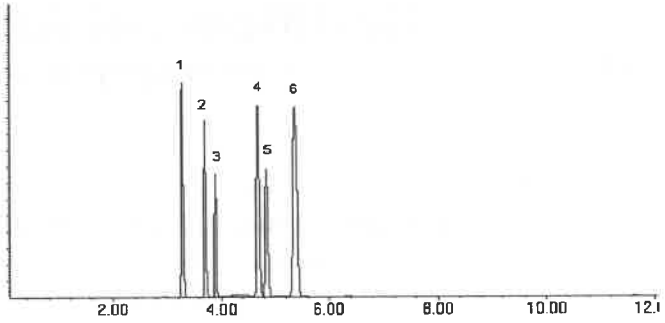
Inj. Temp:
200°C

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.

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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.)

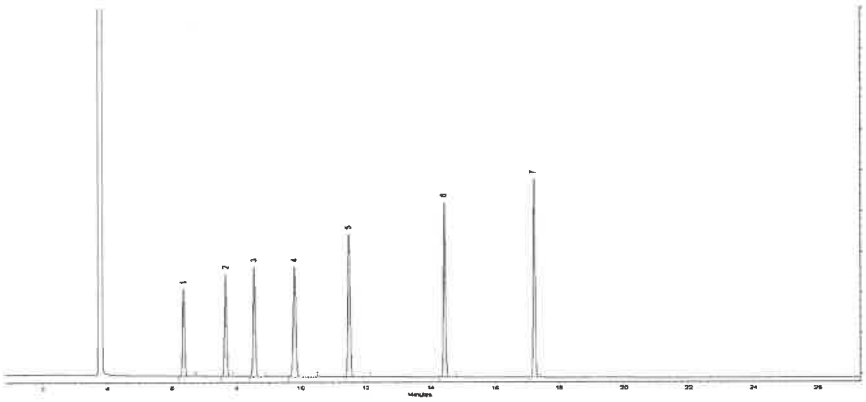
Inj. Temp:
200°C

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** 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.)

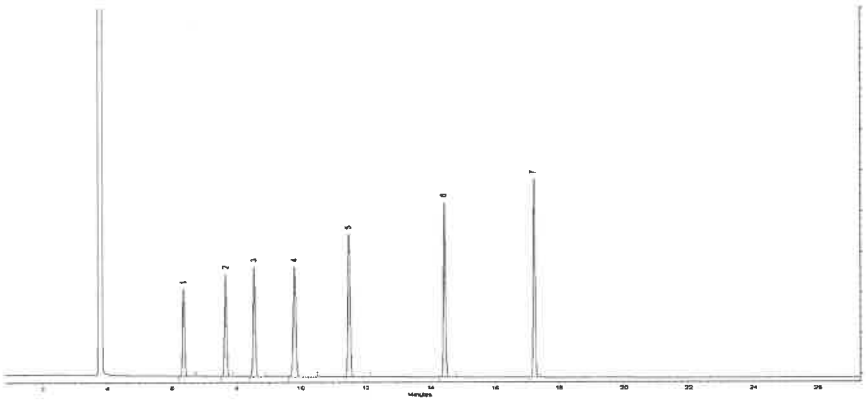
Inj. Temp:
200°C

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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ISO/IEC 17025 Accredited
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0197644

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2030 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

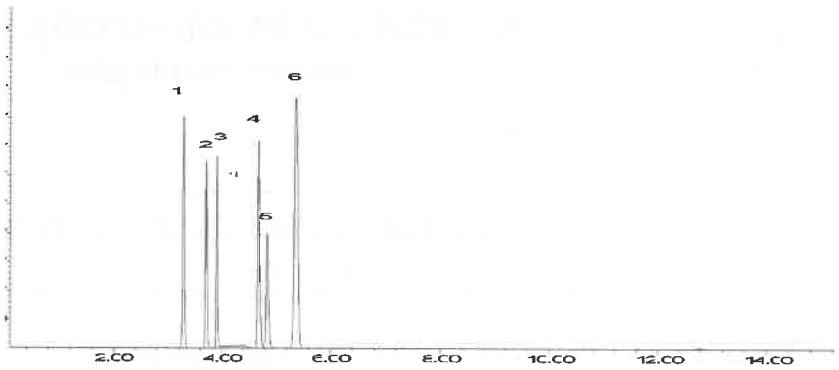
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- 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:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0199224

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,015.0 µg/mL	+/- 69.6476
2	Vinyl acetate	108-05-4	RD220630	99%	2,014.3 µg/mL	+/- 69.6246
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,012.7 µg/mL	+/- 69.5670
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,017.0 µg/mL	+/- 69.7168
5	Propyl acetate	109-60-4	KLOBM	99%	2,007.7 µg/mL	+/- 69.3942
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.3 µg/mL	+/- 69.6246
7	Amyl acetate	628-63-7	41325/1	97%	2,012.1 µg/mL	+/- 69.5475

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

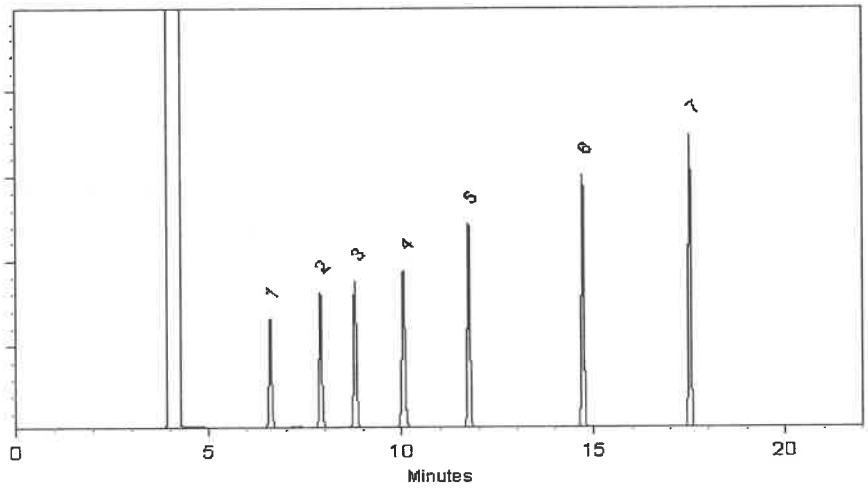
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 22-Jun-2023 **Balance Serial #** B251644995

Jenniter Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

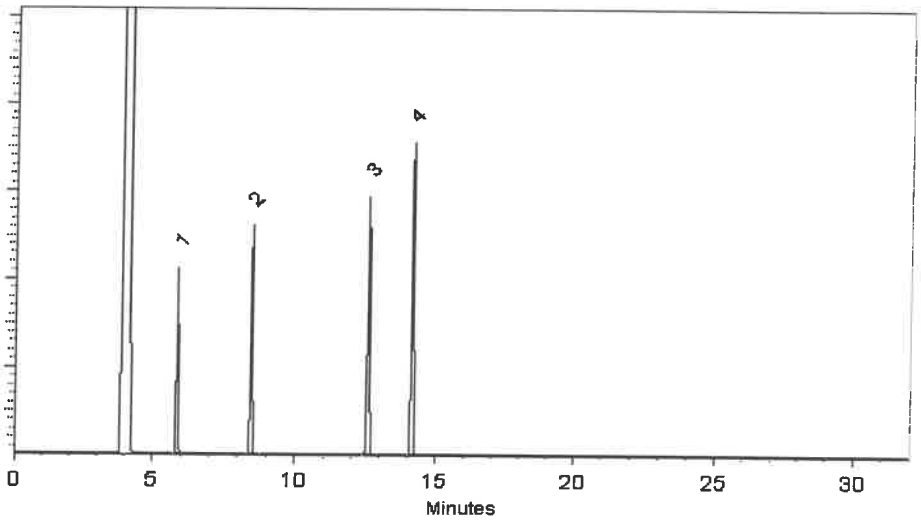
Inj. Temp:
200°C

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.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

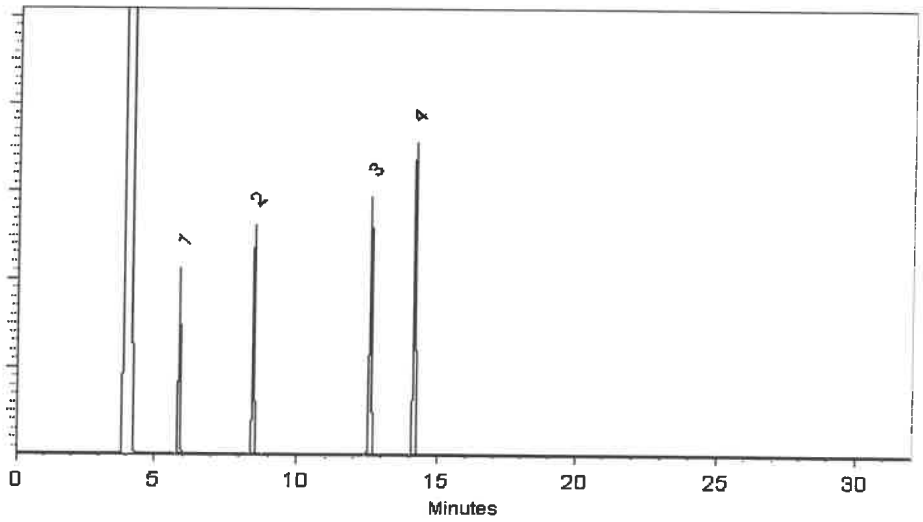
Inj. Temp:
200°C

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.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

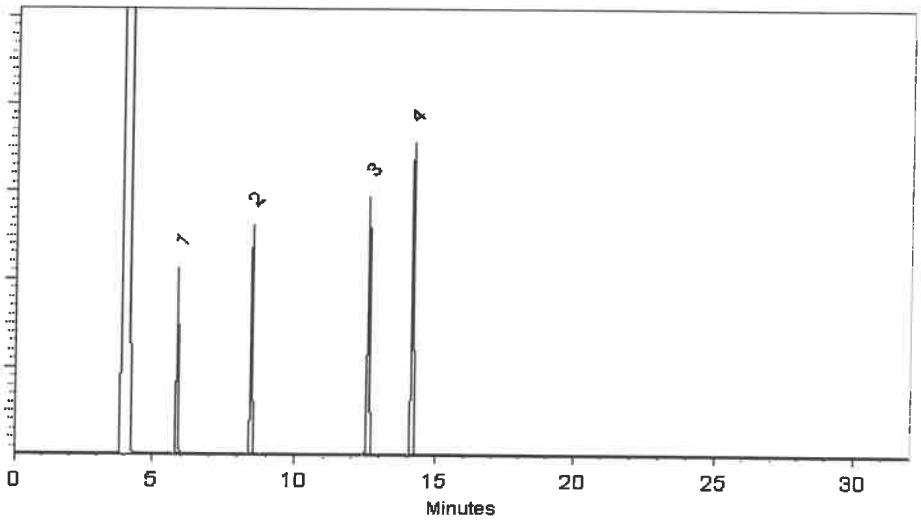
Inj. Temp:
200°C

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.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0205177

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RP231030CTH	98%	8,047.8 µg/mL	+/- 278.1675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

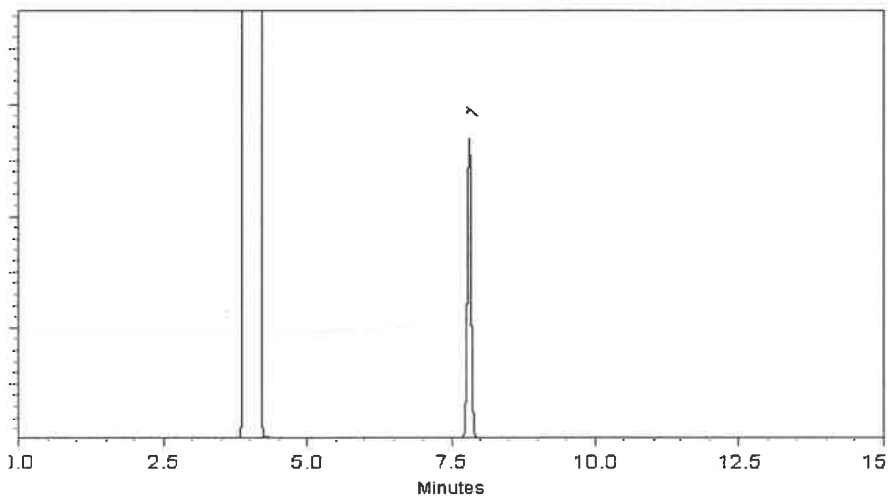
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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.)

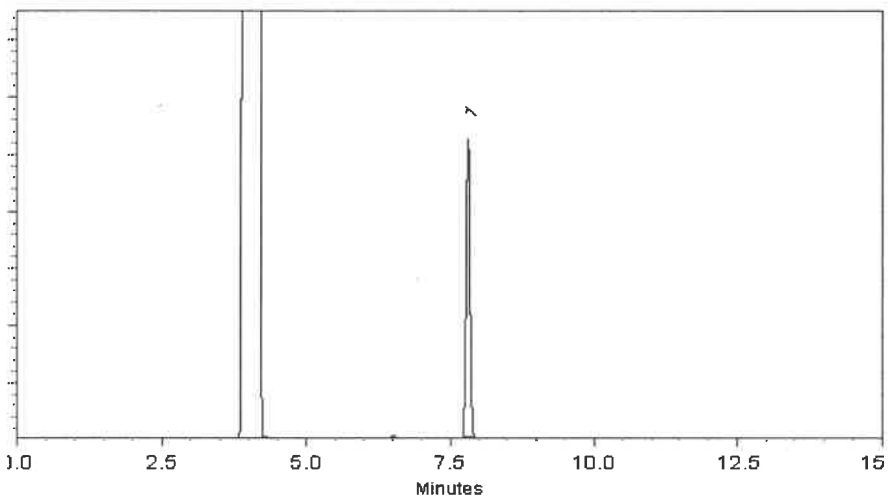
Inj. Temp:
200°C

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.

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

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.)

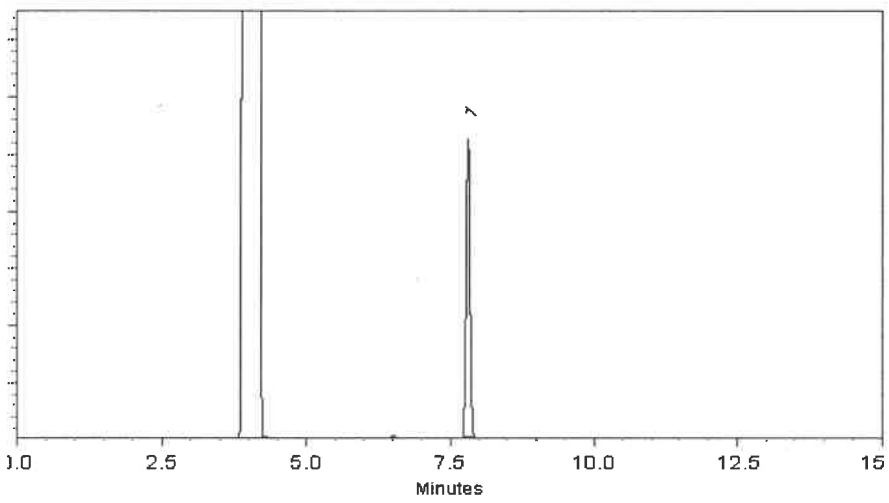
Inj. Temp:
200°C

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.

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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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. : 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:

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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.

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- 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.

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 070122
Description: Bromochloromethane

Solvent: Methanol **Lot#** EC592-US

Expiration Date: 070127
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

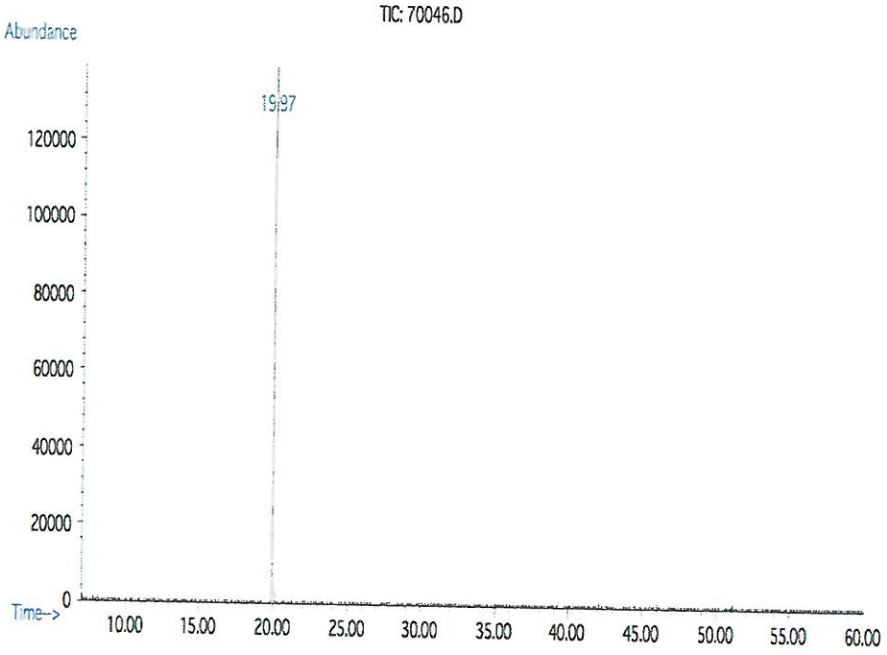
Weight(s) shown below were combined and diluted to (mL): 25.0

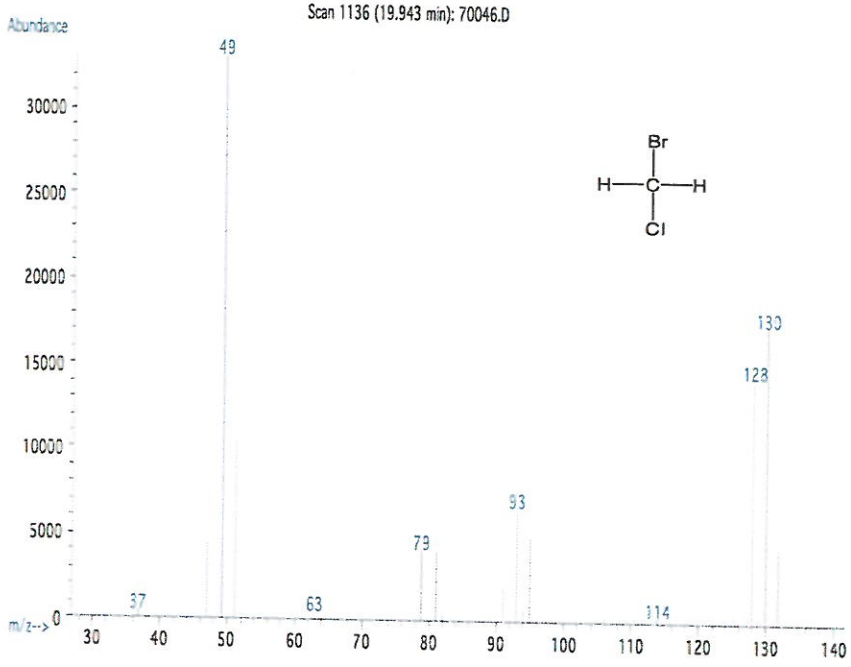
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

Formulated By:	Gabriel Helland	070122 DATE
Reviewed By:	Pedro L. Rentas	070122 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

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846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P3451
QUOTE NO.
COC Number 2041308

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Infante
PHONE: (281) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D3779972 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201) 936-0586 FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard TAT DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☒ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other

ANALYSIS

1: VOCs 8260D
2: SVOCs + PAHs 8270E, 8270E SIM
3: Metals 6020B, Hg 7473B
4: Cr(VI) 7196A
5–9:

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A/E	E	B/E	E						← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER
1.	921-J-WS-080124	WS		X	8/1/24	1420	6	2	2	1	1						
2.	TB-03-080124	DI		X	8/1/24	1550	1	1									
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	8/1/24 1630	1. 1630 8-1-24
2.		2.
3.	8-1-24 1730	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
Comments: See attached table for required analytes list of Eco-VOCs, Eco-SVOCs, and ECO metals

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

Copyright © 2023

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3451 JACO05
Client Name : JACOBS Engineering Grou
Client Contact : Mary I. Murphy
Invoice Name : JACOBS Engineering Grou
Invoice Contact : Mary I. Murphy

Order Date : 8/1/2024 4:38:00 PM
Project Name : Former Schlumberger Site I
Receive DateTime : 8/1/2024 ~~12:00:00 AM~~ 17:30
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : CH2MHILL
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3451-01	921-J-WS-080124	Water	08/01/2024	14:20					
					VOCMS Group6		8260-Low	10 Bus. Days	
P3451-02	TB-03-080124	Water	08/01/2024	15:50					
					VOCMS Group6		8260-Low	10 Bus. Days	

Relinguished By :
Date / Time : 8/2/24 0730

Received By :
Date / Time : 8/2/24 7:10 Reg # 4
Storage Area : VOA Refridgerator Room