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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : EBENZER PLAZA-1 - 20918.10

CHAZEN COMPANIES

Flanigan Square, 547 River Street

Troy, NY - 12180

Phone No: (518) 273-0055

ORDER ID : M1785

ATTENTION : Kevin McGrath

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Cover Page

Order ID : M1785

Project ID : Ebenzer Plaza-1 - 20918.10

Client : Chazen Companies

Lab Sample Number	Client Sample Number
M1785-10	MW-1
M1785-11	MW-1MS
M1785-12	MW-1MSD
M1785-13	MW-2
M1785-14	MW-3R
M1785-15	MW-4
M1785-16	MW-5R
M1785-17	FD-032321
M1785-18	TRIP-BLANK

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: 4/5/2021

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Chazen Companies
Project Name: Ebenzer Plaza-1 - 20918.10
Project # N/A
Chemtech Project # M1785
Test Name: VOCMS Group2

A. Number of Samples and Date of Receipt:
9 Water samples were received on 03/23/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCMS Group2. This data package contains results for VOCMS Group2.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS Group2 was based on method 8260-Low.

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 {M1785-11MS} with File ID: VX021589.D recoveries met the requirements for all compounds except for 1,2,4-Trimethylbenzene [58%] and N-propylbenzene[76%] .
The MSD {M1785-12MSD} with File ID: VX021590.D recoveries met the acceptable requirements except for 1,2,4-Trimethylbenzene[58%] and N-propylbenzene[74%].
The RPD met criteria. due to high concentration of original sample MS/MSD recovery outside the QC limit.

The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 15% in the Initial Calibration method (82X032421W.M) for Chloromethane and 1,2-Dibromo-3-Chloropropane are passing on Linear regression.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

Samples MW-1, MW-2, MW-3R, MW-4, MW-5R and FD-032321 the samples are analyzed at straight dilution due to high contamination of analyte 124-trimethyl benzene.
Sample MW-3R was diluted due to high concentration.

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E. Additional Comments:

This data Package has been revised due to TICS corrected for sample # 14.

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

F. Manual Integration Comments:

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

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

Signature_____

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

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GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: M1785 MATRIX: Water

METHOD: 8260-Low

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The % RSD is greater than 15% in the Initial Calibration method (82X032421W.M) for Chloromethane and 1,2-Dibromo-3-Chloropropane are passing on Linear regression. The Continuous Calibration met the requirements .		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓

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

		NA	NO	YES
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 {M1785-11MS} with File ID: VX021589.D recoveries met the requirements for all compounds except for 1,2,4-Trimethylbenzene [58%] and N-propylbenzene[76%] . The MSD {M1785-12MSD} with File ID: VX021590.D recoveries met the acceptable requirements except for 1,2,4-Trimethylbenzene[58%] and N-propylbenzene[74%]. The RPD met criteria. due to high concentration of original sample MS/MSD recovery outside the QC limit..			
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:			

ADDITIONAL COMMENTS:

This data Package has been revised due to TICS corrected for sample # 14.

Samples MW-1, MW-2, MW-3R, MW-4, MW-5R and FD-032321 the samples are analyzed at straight dilution due to high contamination of analyte 124-trimethyl benzene.

Sample MW-3R was diluted due to high concentration.

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: M1785

	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:** 04/05/2021

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

CHEMTECH

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LAB CHRONICLE

OrderID:	M1785	**OrderDate:**	3/23/2021 12:41:00 PM
Client:	Chazen Companies	**Project:**	Ebenzer Plaza-1 - 20918.10
Contact:	Kevin McGrath	**Location:**	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
M1785-10	**MW-1**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group2	8260-Low			03/29/21	
M1785-13	**MW-2**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group2	8260-Low			03/29/21	
M1785-14	**MW-3R**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group2	8260-Low			03/29/21	
M1785-14DL	**MW-3RDL**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group2	8260-Low			03/29/21	
M1785-15	**MW-4**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group2	8260-Low			03/29/21	
M1785-16	**MW-5R**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group2	8260-Low			03/29/21	
M1785-17	**FD-032321**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group2	8260-Low			03/29/21	
M1785-18	**TRIP-BLANK**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group2	8260-Low			03/29/21	

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Hit Summary Sheet
SW-846

SDG No.: M1785

Client: Chazen Companies

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**MW-1**								
M1785-10	MW-1	Water	Trichloroethene		12.80		1.70	10.0	ug/L
M1785-10	MW-1	Water	Ethyl Benzene		13.40		1.80	10.0	ug/L
M1785-10	MW-1	Water	Total Xylenes		21.30	J	5.10	30.0	ug/L
M1785-10	MW-1	Water	Isopropylbenzene		300.00		2.30	10.0	ug/L
M1785-10	MW-1	Water	n-propylbenzene		500.00		2.40	10.0	ug/L
M1785-10	MW-1	Water	tert-Butylbenzene		36.50		2.60	10.0	ug/L
M1785-10	MW-1	Water	1,2,4-Trimethylbenzene		810.00		2.00	10.0	ug/L
M1785-10	MW-1	Water	sec-Butylbenzene		130.00		2.30	10.0	ug/L
M1785-10	MW-1	Water	n-Butylbenzene		62.20		1.90	10.0	ug/L
			Total Voc :		1886.2				
M1785-10	MW-1	Water	Benzene, 1,2-diethyl-	*	94.50	J	0	0	ug/L
M1785-10	MW-1	Water	Benzene, 1,2,3,4-tetramethyl-	*	140.00	J	0	0	ug/L
M1785-10	MW-1	Water	Benzene, 1,2,3-trimethyl-	*	87.80	J	0	0	ug/L
M1785-10	MW-1	Water	o-Cymene	*	89.80	J	0	0	ug/L
M1785-10	MW-1	Water	Benzene, 1-ethenyl-4-methyl-	*	620.00	J	0	0	ug/L
M1785-10	MW-1	Water	Benzene, 4-ethyl-1,2-dimethyl-	*	160.00	J	0	0	ug/L
M1785-10	MW-1	Water	(E)-1-Phenyl-1-butene	*	79.80	J	0	0	ug/L
M1785-10	MW-1	Water	Benzene, 2-ethyl-1,4-dimethyl-	*	300.00	J	0	0	ug/L
M1785-10	MW-1	Water	Benzene, 1-ethenyl-4-ethyl-	*	310.00	J	0	0	ug/L
M1785-10	MW-1	Water	1H-Indene, 2,3-dihydro-1,6-din	*	60.80	J	0	0	ug/L
M1785-10	MW-1	Water	m/p-Xylenes	*	21.30	J	3.20	20.0	ug/L
M1785-10	MW-1	Water	Alkylbenzenes, Total	*	1,800.00	J	18.1	80.0	ug/L
M1785-10	MW-1	Water	Naphthalene	*	34.30	J	2.60	10.0	ug/L
			Total Tics :		3798.3				
			Total Concentration:		3863.2				
Client ID:	**MW-2**								
M1785-13	MW-2	Water	Ethyl Benzene		57.20		1.80	10.0	ug/L
M1785-13	MW-2	Water	Total Xylenes		62.80		5.10	30.0	ug/L
M1785-13	MW-2	Water	Isopropylbenzene		190.00		2.30	10.0	ug/L
M1785-13	MW-2	Water	n-propylbenzene		320.00		2.40	10.0	ug/L
M1785-13	MW-2	Water	1,3,5-Trimethylbenzene		37.00		2.50	10.0	ug/L
M1785-13	MW-2	Water	tert-Butylbenzene		22.50		2.60	10.0	ug/L
M1785-13	MW-2	Water	1,2,4-Trimethylbenzene		1,200.00		2.00	10.0	ug/L
M1785-13	MW-2	Water	sec-Butylbenzene		88.70		2.30	10.0	ug/L
M1785-13	MW-2	Water	n-Butylbenzene		50.70		1.90	10.0	ug/L
			Total Voc :		2028.9				
M1785-13	MW-2	Water	Benzene, 1,2,4,5-tetramethyl-	*	100.00	J	0	0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: M1785

Client: Chazen Companies

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
M1785-13	MW-2	Water	Benzene, 1,2,3-trimethyl-	*	440.00	J	0	0	ug/L
M1785-13	MW-2	Water	Benzene, 1,2,3,5-tetramethyl-	*	120.00	J	0	0	ug/L
M1785-13	MW-2	Water	Benzene, 1-ethyl-2-methyl-	*	160.00	J	0	0	ug/L
M1785-13	MW-2	Water	Benzene, 1-ethenyl-2-methyl-	*	400.00	J	0	0	ug/L
M1785-13	MW-2	Water	Benzene, (2-methyl-1-propenyl	*	210.00	J	0	0	ug/L
M1785-13	MW-2	Water	Benzene, 1-ethyl-2,3-dimethyl-	*	64.70	J	0	0	ug/L
M1785-13	MW-2	Water	Benzene, 4-ethyl-1,2-dimethyl-	*	200.00	J	0	0	ug/L
M1785-13	MW-2	Water	Benzene, 2-butenyl-	*	130.00	J	0	0	ug/L
M1785-13	MW-2	Water	2,2-Dimethylindene, 2,3-dihydı	*	57.50	J	0	0	ug/L
M1785-13	MW-2	Water	m/p-Xylenes	*	62.80	J	3.20	20.0	ug/L
M1785-13	MW-2	Water	Alkylbenzenes, Total	*	1,900.00	J	18.1	80.0	ug/L
M1785-13	MW-2	Water	p-Isopropyltoluene	*	15.60	J	2.10	10.0	ug/L
M1785-13	MW-2	Water	Naphthalene	*	42.00	J	2.60	10.0	ug/L
			Total Tics :		3902.6				
			Total Concentration:		3968.7				
Client ID:	**MW-3R**								
M1785-14	MW-3R	Water	Methylcyclohexane		10.60		1.40	10.0	ug/L
M1785-14	MW-3R	Water	Ethyl Benzene		33.30		1.80	10.0	ug/L
M1785-14	MW-3R	Water	Total Xylenes		142.00		5.10	30.0	ug/L
M1785-14	MW-3R	Water	Isopropylbenzene		150.00		2.30	10.0	ug/L
M1785-14	MW-3R	Water	n-propylbenzene		290.00		2.40	10.0	ug/L
M1785-14	MW-3R	Water	1,3,5-Trimethylbenzene		77.20		2.50	10.0	ug/L
M1785-14	MW-3R	Water	tert-Butylbenzene		32.90		2.60	10.0	ug/L
M1785-14	MW-3R	Water	1,2,4-Trimethylbenzene		1,600.00	E	2.00	10.0	ug/L
M1785-14	MW-3R	Water	sec-Butylbenzene		140.00		2.30	10.0	ug/L
M1785-14	MW-3R	Water	n-Butylbenzene		97.70		1.90	10.0	ug/L
			Total Voc :		2573.7				
M1785-14	MW-3R	Water	Benzene, 1,2,4,5-tetramethyl-	*	98.50	J	0	0	ug/L
M1785-14	MW-3R	Water	Benzene, 2-propenyl-	*	420.00	J	0	0	ug/L
M1785-14	MW-3R	Water	Benzene, 1,2,3-trimethyl-	*	400.00	J	0	0	ug/L
M1785-14	MW-3R	Water	Benzene, 1,2,3,5-tetramethyl-	*	120.00	J	0	0	ug/L
M1785-14	MW-3R	Water	o-Cymene	*	270.00	J	0	0	ug/L
M1785-14	MW-3R	Water	Cyclohexene, 4-methyl-	*	97.50	J	0	0	ug/L
M1785-14	MW-3R	Water	Benzene, (1-methyl-1-propenyl)-	*	(160.00	J	0	0	ug/L
M1785-14	MW-3R	Water	Benzene, (2-methyl-1-propenyl)-	*	250.00	J	0	0	ug/L
M1785-14	MW-3R	Water	Benzene, 2-ethyl-1,4-dimethyl-	*	140.00	J	0	0	ug/L
M1785-14	MW-3R	Water	m/p-Xylenes	*	130.00	J	3.20	20.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: M1785

Client: Chazen Companies

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
M1785-14	MW-3R	Water	o-Xylene	*	12.00	J	1.90	10.0	ug/L
M1785-14	MW-3R	Water	Alkylbenzenes, Total	*	2,400.00	J	18.1	80.0	ug/L
M1785-14	MW-3R	Water	p-Isopropyltoluene	*	39.70	J	2.10	10.0	ug/L
M1785-14	MW-3R	Water	Naphthalene	*	7.50	J	2.60	10.0	ug/L
			Total Tics :		4545.2				
			Total Concentration:		4580.0				
Client ID:	**MW-3RDL**								
M1785-14DL	MW-3RDL	Water	Methylcyclohexane		17.60	JD	5.70	40.0	ug/L
M1785-14DL	MW-3RDL	Water	Ethyl Benzene		52.00	D	7.30	40.0	ug/L
M1785-14DL	MW-3RDL	Water	Total Xylenes		218.00	D	20.4	120	ug/L
M1785-14DL	MW-3RDL	Water	Isopropylbenzene		200.00	D	9.20	40.0	ug/L
M1785-14DL	MW-3RDL	Water	n-propylbenzene		360.00	D	9.60	40.0	ug/L
M1785-14DL	MW-3RDL	Water	1,3,5-Trimethylbenzene		90.80	D	9.90	40.0	ug/L
M1785-14DL	MW-3RDL	Water	tert-Butylbenzene		36.40	JD	10.3	40.0	ug/L
M1785-14DL	MW-3RDL	Water	1,2,4-Trimethylbenzene		2,000.00	D	8.00	40.0	ug/L
M1785-14DL	MW-3RDL	Water	sec-Butylbenzene		150.00	D	9.00	40.0	ug/L
M1785-14DL	MW-3RDL	Water	n-Butylbenzene		93.20	D	7.60	40.0	ug/L
			Total Voc :		3218.4				
			Total Concentration:		3218.4				
Client ID:	**MW-4**								
M1785-15	MW-4	Water	Ethyl Benzene		110.00		3.60	20.0	ug/L
M1785-15	MW-4	Water	Total Xylenes		68.80		10.2	60.0	ug/L
M1785-15	MW-4	Water	Isopropylbenzene		100.00		4.60	20.0	ug/L
M1785-15	MW-4	Water	n-propylbenzene		170.00		4.80	20.0	ug/L
M1785-15	MW-4	Water	1,3,5-Trimethylbenzene		39.00		4.90	20.0	ug/L
M1785-15	MW-4	Water	tert-Butylbenzene		16.00	J	5.20	20.0	ug/L
M1785-15	MW-4	Water	1,2,4-Trimethylbenzene		1,600.00		4.00	20.0	ug/L
M1785-15	MW-4	Water	sec-Butylbenzene		61.40		4.50	20.0	ug/L
M1785-15	MW-4	Water	n-Butylbenzene		40.40		3.80	20.0	ug/L
			Total Voc :		2205.6				
M1785-15	MW-4	Water	Benzene, 1,2,4,5-tetramethyl-	*	110.00	J	0	0	ug/L
M1785-15	MW-4	Water	Indane	*	350.00	J	0	0	ug/L
M1785-15	MW-4	Water	Benzene, 1,2,3-trimethyl-	*	950.00	J	0	0	ug/L
M1785-15	MW-4	Water	o-Cymene	*	110.00	J	0	0	ug/L
M1785-15	MW-4	Water	Benzene, 1-ethyl-2-methyl-	*	100.00	J	0	0	ug/L
M1785-15	MW-4	Water	1-Phenyl-1-butene	*	220.00	J	0	0	ug/L
M1785-15	MW-4	Water	3-Phenylbut-1-ene	*	150.00	J	0	0	ug/L
M1785-15	MW-4	Water	Benzene, 4-ethyl-1,2-dimethyl-	*	170.00	J	0	0	ug/L

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

Hit Summary Sheet
SW-846

SDG No.: M1785

Client: Chazen Companies

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
M1785-15	MW-4	Water	m/p-Xylenes	*	68.80	J	6.50	40.0	ug/L
M1785-15	MW-4	Water	Alkylbenzenes, Total	*	2,000.00	J	35.9	160	ug/L
M1785-15	MW-4	Water	p-Isopropyltoluene	*	16.00	J	4.10	20.0	ug/L
M1785-15	MW-4	Water	Naphthalene	*	100.00	J	5.20	20.0	ug/L
			Total Tics :		4344.8				
			Total Concentration:		4481.6				
Client ID:	**MW-5R**								
M1785-16	MW-5R	Water	Ethyl Benzene		18.10		1.80	10.0	ug/L
M1785-16	MW-5R	Water	Total Xylenes		115.00		5.10	30.0	ug/L
M1785-16	MW-5R	Water	Isopropylbenzene		180.00		2.30	10.0	ug/L
M1785-16	MW-5R	Water	n-propylbenzene		360.00		2.40	10.0	ug/L
M1785-16	MW-5R	Water	1,3,5-Trimethylbenzene		270.00		2.50	10.0	ug/L
M1785-16	MW-5R	Water	tert-Butylbenzene		31.50		2.60	10.0	ug/L
M1785-16	MW-5R	Water	1,2,4-Trimethylbenzene		1,200.00		2.00	10.0	ug/L
M1785-16	MW-5R	Water	sec-Butylbenzene		140.00		2.30	10.0	ug/L
M1785-16	MW-5R	Water	n-Butylbenzene		130.00		1.90	10.0	ug/L
			Total Voc :		2445				
M1785-16	MW-5R	Water	Benzene, 1,2,4,5-tetramethyl-	*	260.00	J	0	0	ug/L
M1785-16	MW-5R	Water	Benzene, 1,2-diethyl-	*	120.00	J	0	0	ug/L
M1785-16	MW-5R	Water	Benzene, 1,2,3-trimethyl-	*	600.00	J	0	0	ug/L
M1785-16	MW-5R	Water	Benzene, 1,2,3,5-tetramethyl-	*	110.00	J	0	0	ug/L
M1785-16	MW-5R	Water	o-Cymene	*	470.00	J	0	0	ug/L
M1785-16	MW-5R	Water	Benzene, 1-ethyl-2-methyl-	*	240.00	J	0	0	ug/L
M1785-16	MW-5R	Water	Benzene, 1-ethenyl-4-methyl-	*	660.00	J	0	0	ug/L
M1785-16	MW-5R	Water	Indan, 1-methyl-	*	430.00	J	0	0	ug/L
M1785-16	MW-5R	Water	1-Phenyl-1-butene	*	130.00	J	0	0	ug/L
M1785-16	MW-5R	Water	Benzene, 4-ethyl-1,2-dimethyl-	*	440.00	J	0	0	ug/L
M1785-16	MW-5R	Water	m/p-Xylenes	*	110.00	J	3.20	20.0	ug/L
M1785-16	MW-5R	Water	o-Xylene	*	5.40	J	1.90	10.0	ug/L
M1785-16	MW-5R	Water	Alkylbenzenes, Total	*	2,300.00	J	18.1	80.0	ug/L
M1785-16	MW-5R	Water	Naphthalene	*	6.30	J	2.60	10.0	ug/L
			Total Tics :		5881.7				
			Total Concentration:		5911.3				
Client ID:	**FD-032321**								
M1785-17	FD-032321	Water	Trichloroethene		3.20	J	1.70	10.0	ug/L
M1785-17	FD-032321	Water	Ethyl Benzene		20.00		1.80	10.0	ug/L
M1785-17	FD-032321	Water	Total Xylenes		126.00		5.10	30.0	ug/L
M1785-17	FD-032321	Water	Isopropylbenzene		230.00		2.30	10.0	ug/L

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

Hit Summary Sheet
SW-846

SDG No.: M1785

Client: Chazen Companies

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
M1785-17	FD-032321	Water	n-propylbenzene		450.00		2.40	10.0	ug/L
M1785-17	FD-032321	Water	1,3,5-Trimethylbenzene		320.00		2.50	10.0	ug/L
M1785-17	FD-032321	Water	tert-Butylbenzene		39.30		2.60	10.0	ug/L
M1785-17	FD-032321	Water	1,2,4-Trimethylbenzene		1,400.00		2.00	10.0	ug/L
M1785-17	FD-032321	Water	sec-Butylbenzene		160.00		2.30	10.0	ug/L
M1785-17	FD-032321	Water	n-Butylbenzene		140.00		1.90	10.0	ug/L
			Total Voc :		2888				
M1785-17	FD-032321	Water	Benzene, 1,2-diethyl-	*	150.00	J	0	0	ug/L
M1785-17	FD-032321	Water	Benzene, 1,2,3,4-tetramethyl-	*	540.00	J	0	0	ug/L
M1785-17	FD-032321	Water	Benzene, 1,2,3-trimethyl-	*	720.00	J	0	0	ug/L
M1785-17	FD-032321	Water	Benzene, 1,2,3,5-tetramethyl-	*	290.00	J	0	0	ug/L
M1785-17	FD-032321	Water	o-Cymene	*	490.00	J	0	0	ug/L
M1785-17	FD-032321	Water	Benzene, 1-ethenyl-2-methyl-	*	790.00	J	0	0	ug/L
M1785-17	FD-032321	Water	Benzene, 1-ethyl-3-methyl-	*	300.00	J	0	0	ug/L
M1785-17	FD-032321	Water	Indan, 1-methyl-	*	500.00	J	0	0	ug/L
M1785-17	FD-032321	Water	(E)-1-Phenyl-1-butene	*	140.00	J	0	0	ug/L
M1785-17	FD-032321	Water	Benzene, 2-ethyl-1,4-dimethyl-	*	120.00	J	0	0	ug/L
M1785-17	FD-032321	Water	m/p-Xylenes	*	120.00	J	3.20	20.0	ug/L
M1785-17	FD-032321	Water	o-Xylene	*	5.50	J	1.90	10.0	ug/L
M1785-17	FD-032321	Water	Alkylbenzenes, Total	*	2,700.00	J	18.1	80.0	ug/L
M1785-17	FD-032321	Water	Naphthalene	*	7.30	J	2.60	10.0	ug/L
			Total Tics :		6872.8				
			Total Concentration:		6935.3				
Client ID:	**TRIP-BLANK**								
M1785-18	TRIP-BLANK	Water	Acetone		4.50	J	1.60	5.00	ug/L
			Total Voc :		4.5				
			Total Concentration:		4.5				

QC SUMMARY

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

Surrogate Summary

SDG No.: M1785

Client: Chazen Companies

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
M1785-10	MW-1	1,2-Dichloroethane-d4	50	50.6	101	78	117
		Dibromofluoromethane	50	50.1	100	75	124
		Toluene-d8	50	50.1	100	92	112
		4-Bromofluorobenzene	50	52.4	105	83	123
M1785-11MS	MW-1MS	1,2-Dichloroethane-d4	50	50.9	102	78	117
		Dibromofluoromethane	50	52.6	105	75	124
		Toluene-d8	50	53.1	106	92	112
		4-Bromofluorobenzene	50	54.4	109	83	123
M1785-12MSD	MW-1MSD	1,2-Dichloroethane-d4	50	52.8	105	78	117
		Dibromofluoromethane	50	50.9	102	75	124
		Toluene-d8	50	51.5	103	92	112
		4-Bromofluorobenzene	50	52.3	105	83	123
M1785-13	MW-2	1,2-Dichloroethane-d4	50	52.5	105	78	117
		Dibromofluoromethane	50	50.6	101	75	124
		Toluene-d8	50	51.1	102	92	112
		4-Bromofluorobenzene	50	59.1	118	83	123
M1785-14	MW-3R	1,2-Dichloroethane-d4	50	50.9	102	78	117
		Dibromofluoromethane	50	50.0	100	75	124
		Toluene-d8	50	50.1	100	92	112
		4-Bromofluorobenzene	50	52.8	106	83	123
M1785-14DL	MW-3RDL	1,2-Dichloroethane-d4	50	51.5	103	78	117
		Dibromofluoromethane	50	50.6	101	75	124
		Toluene-d8	50	50.4	101	92	112
		4-Bromofluorobenzene	50	56.9	114	83	123
M1785-15	MW-4	1,2-Dichloroethane-d4	50	51.0	102	78	117
		Dibromofluoromethane	50	50.2	100	75	124
		Toluene-d8	50	50.2	100	92	112
		4-Bromofluorobenzene	50	56.1	112	83	123
M1785-16	MW-5R	1,2-Dichloroethane-d4	50	52.4	105	78	117
		Dibromofluoromethane	50	50.4	101	75	124
		Toluene-d8	50	51.2	102	92	112
		4-Bromofluorobenzene	50	57.5	115	83	123
M1785-17	FD-032321	1,2-Dichloroethane-d4	50	51.8	104	78	117
		Dibromofluoromethane	50	50.8	102	75	124
		Toluene-d8	50	48.9	98	92	112
		4-Bromofluorobenzene	50	51.5	103	83	123
M1785-18	TRIP-BLANK	1,2-Dichloroethane-d4	50	51.7	103	78	117
		Dibromofluoromethane	50	51.1	102	75	124
		Toluene-d8	50	50.4	101	92	112
		4-Bromofluorobenzene	50	53.1	106	83	123
VX0329WBL01	VX0329WBL01	1,2-Dichloroethane-d4	50	50.4	101	78	117
		Dibromofluoromethane	50	50.0	100	75	124
		Toluene-d8	50	50.1	100	92	112
		4-Bromofluorobenzene	50	53.7	107	83	123
VX0329WBS01	VX0329WBS01	1,2-Dichloroethane-d4	50	49.8	100	78	117
		Dibromofluoromethane	50	50.6	101	75	124
		Toluene-d8	50	50.9	102	92	112
		4-Bromofluorobenzene	50	49.9	100	83	123

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M1785

Client: Chazen Companies

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 : M1785-11MS		**Client Sample ID : MW-1MS**						**Datafile :**	VX021589.D		
Dichlorodifluoromethane	500	0	450	ug/L	90				73	120	
Chloromethane	500	0	460	ug/L	92				58	133	
Vinyl chloride	500	0	480	ug/L	96				69	125	
Bromomethane	500	0	520	ug/L	104				45	135	
Chloroethane	500	0	470	ug/L	94				77	119	
Trichlorofluoromethane	500	0	480	ug/L	96				72	124	
1,1,2-Trichlorotrifluoroethane	500	0	470	ug/L	94				75	117	
1,1-Dichloroethene	500	0	460	ug/L	92				77	118	
Acetone	2500	0	2400	ug/L	96				57	139	
Carbon disulfide	500	0	410	ug/L	82				67	118	
Methyl tert-butyl Ether	500	0	480	ug/L	96				60	148	
Methyl Acetate	500	0	530	ug/L	106				60	133	
Methylene Chloride	500	0	460	ug/L	92				79	115	
trans-1,2-Dichloroethene	500	0	460	ug/L	92				60	133	
1,1-Dichloroethane	500	0	480	ug/L	96				78	122	
Cyclohexane	500	0	460	ug/L	92				71	119	
2-Butanone	2500	0	2500	ug/L	100				67	137	
Carbon Tetrachloride	500	0	500	ug/L	100				84	115	
cis-1,2-Dichloroethene	500	0	470	ug/L	94				56	145	
Bromochloromethane	500	0	490	ug/L	98				72	130	
Chloroform	500	0	490	ug/L	98				83	119	
1,1,1-Trichloroethane	500	0	480	ug/L	96				83	117	
Methylcyclohexane	500	0	460	ug/L	92				64	120	
Benzene	500	0	480	ug/L	96				83	115	
1,2-Dichloroethane	500	0	490	ug/L	98				76	120	
Trichloroethene	500	12.8	480	ug/L	93				45	149	
1,2-Dichloropropane	500	0	490	ug/L	98				85	116	
Bromodichloromethane	500	0	500	ug/L	100				86	117	
4-Methyl-2-Pentanone	2500	0	2600	ug/L	104				72	137	
Toluene	500	0	500	ug/L	100				85	115	
t-1,3-Dichloropropene	500	0	490	ug/L	98				78	117	
cis-1,3-Dichloropropene	500	0	480	ug/L	96				77	115	
1,1,2-Trichloroethane	500	0	500	ug/L	100				87	119	
2-Hexanone	2500	0	2700	ug/L	108				75	131	
Dibromochloromethane	500	0	520	ug/L	104				88	118	
1,2-Dibromoethane	500	0	500	ug/L	100				85	119	
Tetrachloroethene	500	0	500	ug/L	100				65	114	
Chlorobenzene	500	0	490	ug/L	98				62	141	
Ethyl Benzene	500	13.4	500	ug/L	97				62	134	
m/p-Xylenes	1000	21.3	1000	ug/L	98				83	117	
o-Xylene	500	0	500	ug/L	100				81	120	
Styrene	500	0	500	ug/L	100				53	143	
Bromoform	500	0	500	ug/L	100				83	121	
Isopropylbenzene	500	300	730	ug/L	86				76	121	
1,1,2,2-Tetrachloroethane	500	0	510	ug/L	102				66	145	
N-propylbenzene	500	500	880	ug/L	76	*			79	116	
1,3,5-Trimethylbenzene	500	0	510	ug/L	102				40	169	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M1785

Client: Chazen Companies

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
tert-Butylbenzene	500	36.5	540	ug/L	101				80	116	
1,2,4-Trimethylbenzene	500	810	1100	ug/L	58	*			81	116	
Sec-butylbenzene	500	130	610	ug/L	96				70	122	
1,3-Dichlorobenzene	500	0	500	ug/L	100				84	110	
1,4-Dichlorobenzene	500	0	490	ug/L	98				81	111	
n-Butylbenzene	500	62.2	550	ug/L	98				53	140	
1,2-Dichlorobenzene	500	0	510	ug/L	102				82	113	
1,2-Dibromo-3-Chloropropane	500	0	490	ug/L	98				55	152	
1,2,4-Trichlorobenzene	500	0	510	ug/L	102				73	120	
1,2,3-Trichlorobenzene	500	0	480	ug/L	96				75	119	
1,4-Dioxane	10000	0	10100	ug/L	101				50	150	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M1785

Client: Chazen Companies

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 : M1785-12MSD	**Client Sample ID : MW-1MSD**							**Datafile :** VX021590.D			
Dichlorodifluoromethane	500	0	470	ug/L	94		4		73	120	20
Chloromethane	500	0	470	ug/L	94		2		58	133	20
Vinyl chloride	500	0	500	ug/L	100		4		69	125	20
Bromomethane	500	0	560	ug/L	112		7		45	135	20
Chloroethane	500	0	490	ug/L	98		4		77	119	20
Trichlorofluoromethane	500	0	500	ug/L	100		4		72	124	20
1,1,2-Trichlorotrifluoroethane	500	0	490	ug/L	98		4		75	117	20
1,1-Dichloroethene	500	0	470	ug/L	94		2		77	118	20
Acetone	2500	0	2500	ug/L	100		4		57	139	20
Carbon disulfide	500	0	420	ug/L	84		2		67	118	20
Methyl tert-butyl Ether	500	0	500	ug/L	100		4		60	148	20
Methyl Acetate	500	0	550	ug/L	110		4		60	133	20
Methylene Chloride	500	0	480	ug/L	96		4		79	115	20
trans-1,2-Dichloroethene	500	0	470	ug/L	94		2		60	133	20
1,1-Dichloroethane	500	0	500	ug/L	100		4		78	122	20
Cyclohexane	500	0	480	ug/L	96		4		71	119	20
2-Butanone	2500	0	2600	ug/L	104		4		67	137	20
Carbon Tetrachloride	500	0	490	ug/L	98		2		84	115	20
cis-1,2-Dichloroethene	500	0	490	ug/L	98		4		56	145	20
Bromochloromethane	500	0	510	ug/L	102		4		72	130	20
Chloroform	500	0	510	ug/L	102		4		83	119	20
1,1,1-Trichloroethane	500	0	500	ug/L	100		4		83	117	20
Methylcyclohexane	500	0	450	ug/L	90		2		64	120	20
Benzene	500	0	480	ug/L	96		0		83	115	20
1,2-Dichloroethane	500	0	490	ug/L	98		0		76	120	20
Trichloroethene	500	12.8	480	ug/L	93		0		45	149	20
1,2-Dichloropropane	500	0	490	ug/L	98		0		85	116	20
Bromodichloromethane	500	0	490	ug/L	98		2		86	117	20
4-Methyl-2-Pentanone	2500	0	2600	ug/L	104		0		72	137	20
Toluene	500	0	500	ug/L	100		0		85	115	20
t-1,3-Dichloropropene	500	0	490	ug/L	98		0		78	117	20
cis-1,3-Dichloropropene	500	0	480	ug/L	96		0		77	115	20
1,1,2-Trichloroethane	500	0	500	ug/L	100		0		87	119	20
2-Hexanone	2500	0	2600	ug/L	104		4		75	131	20
Dibromochloromethane	500	0	510	ug/L	102		2		88	118	20
1,2-Dibromoethane	500	0	500	ug/L	100		0		85	119	20
Tetrachloroethene	500	0	490	ug/L	98		2		65	114	20
Chlorobenzene	500	0	490	ug/L	98		0		62	141	20
Ethyl Benzene	500	13.4	500	ug/L	97		0		62	134	20
m/p-Xylenes	1000	21.3	1000	ug/L	98		0		83	117	20
o-Xylene	500	0	510	ug/L	102		2		81	120	20
Styrene	500	0	500	ug/L	100		0		53	143	20
Bromoform	500	0	520	ug/L	104		4		83	121	20
Isopropylbenzene	500	300	730	ug/L	86		0		76	121	20
1,1,2,2-Tetrachloroethane	500	0	500	ug/L	100		2		66	145	20
N-propylbenzene	500	500	870	ug/L	74	*	3		79	116	20
1,3,5-Trimethylbenzene	500	0	510	ug/L	102		0		40	169	20

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M1785

Client: Chazen Companies

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
tert-Butylbenzene	500	36.5	530	ug/L	99		2		80	116	20
1,2,4-Trimethylbenzene	500	810	1100	ug/L	58	*	0		81	116	20
Sec-butylbenzene	500	130	600	ug/L	94		2		70	122	20
1,3-Dichlorobenzene	500	0	500	ug/L	100		0		84	110	20
1,4-Dichlorobenzene	500	0	480	ug/L	96		2		81	111	20
n-Butylbenzene	500	62.2	550	ug/L	98		0		53	140	20
1,2-Dichlorobenzene	500	0	500	ug/L	100		2		82	113	20
1,2-Dibromo-3-Chloropropane	500	0	480	ug/L	96		2		55	152	20
1,2,4-Trichlorobenzene	500	0	480	ug/L	96		6		73	120	20
1,2,3-Trichlorobenzene	500	0	480	ug/L	96		0		75	119	20
1,4-Dioxane	10000	0	10300	ug/L	103		2		50	150	20

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1785

Client: Chazen Companies

Analytical Method: SW8260-Low **Datafile :** VX021566.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0329WBS01	Dichlorodifluoromethane	20	18.4	ug/L	92			69	116	
	Chloromethane	20	18.6	ug/L	93			65	116	
	Vinyl chloride	20	19.1	ug/L	96			65	117	
	Bromomethane	20	23.5	ug/L	117			55	134	
	Chloroethane	20	18.7	ug/L	94			73	112	
	Trichlorofluoromethane	20	19.4	ug/L	97			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97			80	112	
	1,1-Dichloroethene	20	18.6	ug/L	93			74	110	
	Acetone	100	94.1	ug/L	94			60	125	
	Carbon disulfide	20	17.0	ug/L	85			64	112	
	Methyl tert-butyl Ether	20	19.4	ug/L	97			78	114	
	Methyl Acetate	20	20.8	ug/L	104			67	125	
	Methylene Chloride	20	18.6	ug/L	93			72	114	
	trans-1,2-Dichloroethene	20	18.5	ug/L	93			75	108	
	1,1-Dichloroethane	20	19.7	ug/L	99			78	112	
	Cyclohexane	20	18.5	ug/L	93			75	110	
	2-Butanone	100	94.8	ug/L	95			65	122	
	Carbon Tetrachloride	20	20.1	ug/L	101			77	113	
	cis-1,2-Dichloroethene	20	19.1	ug/L	96			77	110	
	Bromochloromethane	20	20.7	ug/L	104			70	124	
	Chloroform	20	19.7	ug/L	99			79	113	
	1,1,1-Trichloroethane	20	19.6	ug/L	98			80	108	
	Methylcyclohexane	20	18.5	ug/L	93			72	115	
	Benzene	20	19.7	ug/L	99			82	109	
	1,2-Dichloroethane	20	20.2	ug/L	101			80	115	
	Trichloroethene	20	19.3	ug/L	97			77	113	
	1,2-Dichloropropane	20	19.9	ug/L	100			83	111	
	Bromodichloromethane	20	20.2	ug/L	101			83	110	
	4-Methyl-2-Pentanone	100	99.7	ug/L	100			74	118	
	Toluene	20	19.9	ug/L	100			82	110	
	t-1,3-Dichloropropene	20	19.4	ug/L	97			79	110	
	cis-1,3-Dichloropropene	20	19.9	ug/L	100			82	110	
	1,1,2-Trichloroethane	20	20.1	ug/L	101			83	112	
	2-Hexanone	100	98.8	ug/L	99			73	117	
	Dibromochloromethane	20	20.3	ug/L	102			82	110	
	1,2-Dibromoethane	20	19.8	ug/L	99			81	110	
	Tetrachloroethene	20	20.3	ug/L	102			67	123	
	Chlorobenzene	20	19.2	ug/L	96			82	109	
	Ethyl Benzene	20	19.2	ug/L	96			83	109	
	m/p-Xylenes	40	39.4	ug/L	99			82	110	
	o-Xylene	20	19.6	ug/L	98			83	109	
	Styrene	20	19.2	ug/L	96			80	111	
	Bromoform	20	20.2	ug/L	101			79	109	
	Isopropylbenzene	20	20.2	ug/L	101			83	112	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/L	101			76	118	
	N-propylbenzene	20	20.1	ug/L	101			83	112	
	1,3,5-Trimethylbenzene	20	20.4	ug/L	102			85	112	
	tert-Butylbenzene	20	19.8	ug/L	99			83	112	
	1,2,4-Trimethylbenzene	20	20.2	ug/L	101			85	111	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1785

Client: Chazen Companies

Analytical Method: SW8260-Low **Datafile :** VX021566.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0329WBS01	Sec-butylbenzene	20	20.0	ug/L	100			81	114	
	1,3-Dichlorobenzene	20	19.8	ug/L	99			82	108	
	1,4-Dichlorobenzene	20	19.2	ug/L	96			82	107	
	n-Butylbenzene	20	18.6	ug/L	93			75	115	
	1,2-Dichlorobenzene	20	19.4	ug/L	97			82	109	
	1,2-Dibromo-3-Chloropropane	20	19.5	ug/L	98			68	112	
	1,2,4-Trichlorobenzene	20	19.0	ug/L	95			74	114	
	1,2,3-Trichlorobenzene	20	19.1	ug/L	96			77	113	
	1,4-Dioxane	400	400	ug/L	100			54	145	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0329WBL01

Lab Name: CHEMTECH Contract: CHAZ02

Lab Code: CHEM Case No.: M1785 SAS No.: M1785 SDG NO.: M1785

Lab File ID: VX021565.D Lab Sample ID: VX0329WBL01

Date Analyzed: 03/29/2021 Time Analyzed: 10:36

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

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0329WBS01	VX0329WBS01	VX021566.D	03/29/2021
MW-1	M1785-10	VX021571.D	03/29/2021
MW-3RDL	M1785-14DL	VX021573.D	03/29/2021
MW-4	M1785-15	VX021574.D	03/29/2021
TRIP-BLANK	M1785-18	VX021576.D	03/29/2021
FD-032321	M1785-17	VX021578.D	03/29/2021
MW-2	M1785-13	VX021579.D	03/29/2021
MW-3R	M1785-14	VX021580.D	03/29/2021
MW-5R	M1785-16	VX021581.D	03/29/2021
MW-1MS	M1785-11MS	VX021589.D	03/29/2021
MW-1MSD	M1785-12MSD	VX021590.D	03/29/2021

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CHAZ02

Lab Code: CHEM Case No.: M1785 SAS No.: M1785 SDG NO.: M1785

Lab File ID: VX021422.D BFB Injection Date: 03/24/2021

Instrument ID: MSVOA_X BFB Injection Time: 08:21

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 60.0% of mass 95	57
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 100.0% of mass 95	68
175	5.0 - 9.0% of mass 174	5.6 (8.3) 1
176	95.0 - 101.0% of mass 174	64.6 (94.9) 1
177	5.0 - 9.0% of mass 176	4.7 (7.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX021424.D	03/24/2021	10:04
VSTDICC005	VSTDICC005	VX021425.D	03/24/2021	10:26
VSTDICC020	VSTDICC020	VX021426.D	03/24/2021	10:49
VSTDICCC050	VSTDICCC050	VX021427.D	03/24/2021	11:13
VSTDICC100	VSTDICC100	VX021428.D	03/24/2021	11:36
VSTDICC150	VSTDICC150	VX021429.D	03/24/2021	11:58

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CHAZ02

Lab Code: CHEM Case No.: M1785 SAS No.: M1785 SDG NO.: M1785

Lab File ID: VX021563.D BFB Injection Date: 03/29/2021

Instrument ID: MSVOA_X BFB Injection Time: 09:02

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	55.8
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	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	71.4
175	5.0 - 9.0% of mass 174	5.9 (8.3) 1
176	95.0 - 101.0% of mass 174	69.1 (96.8) 1
177	5.0 - 9.0% of mass 176	4.6 (6.7) 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	VX021564.D	03/29/2021	09:35
VX0329WBL01	VX0329WBL01	VX021565.D	03/29/2021	10:36
VX0329WBS01	VX0329WBS01	VX021566.D	03/29/2021	10:59
MW-1	M1785-10	VX021571.D	03/29/2021	12:55
MW-3RDL	M1785-14DL	VX021573.D	03/29/2021	13:42
MW-4	M1785-15	VX021574.D	03/29/2021	14:05
TRIP-BLANK	M1785-18	VX021576.D	03/29/2021	14:52
FD-032321	M1785-17	VX021578.D	03/29/2021	15:39
MW-2	M1785-13	VX021579.D	03/29/2021	16:02
MW-3R	M1785-14	VX021580.D	03/29/2021	16:26
MW-5R	M1785-16	VX021581.D	03/29/2021	16:49
MW-1MS	M1785-11MS	VX021589.D	03/29/2021	19:57
MW-1MSD	M1785-12MSD	VX021590.D	03/29/2021	20:21

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CHAZ02

Lab Code: CHEM Case No.: M1785 SAS No.: M1785 SDG NO.: M1785

Lab File ID: VX021564.D Date Analyzed: 03/29/2021

Instrument ID: MSVOA_X Time Analyzed: 09:35

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	94419	5.62	152632	6.82	141896	10.09
UPPER LIMIT	188838	6.117	305264	7.323	283792	10.594
LOWER LIMIT	47209.5	5.117	76316	6.323	70948	9.594
EPA SAMPLE NO.						
MW-1	58534	5.63	105367	6.83	106458	10.09
MW-1MS	80858	5.63	132095	6.83	125590	10.09
MW-1MSD	78212	5.63	133786	6.83	126299	10.09
MW-2	59245	5.63	110177	6.83	115434	10.09
MW-3R	60069	5.62	110895	6.83	109772	10.09
MW-3RDL	62545	5.63	114308	6.83	121053	10.09
MW-4	62597	5.62	114338	6.83	118030	10.09
MW-5R	59069	5.64	109090	6.83	113700	10.09
FD-032321	60301	5.63	109753	6.83	108566	10.09
TRIP-BLANK	59024	5.63	107931	6.83	113630	10.09
VX0329WBL01	66153	5.62	120176	6.83	126472	10.09
VX0329WBS01	89704	5.62	146257	6.83	138179	10.09

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: CHAZ02

Lab Code: CHEM Case No.: M1785 SAS No.: M1785 SDG NO.: M1785

Lab File ID: VX021564.D Date Analyzed: 03/29/2021

Instrument ID: MSVOA_X Time Analyzed: 09:35

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

	IS4 AREA #	RT #				
12 HOUR STD	70614	12.059				
UPPER LIMIT	141228	12.559				
LOWER LIMIT	35307	11.559				
EPA SAMPLE NO.						
MW-1	48214	12.06				
MW-1MS	60876	12.06				
MW-1MSD	62506	12.06				
MW-2	57707	12.06				
MW-3R	50223	12.07				
MW-3RDL	59501	12.06				
MW-4	58057	12.06				
MW-5R	57549	12.06				
FD-032321	50719	12.07				
TRIP-BLANK	47890	12.06				
VX0329WBL01	57784	12.06				
VX0329WBS01	65643	12.06				

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

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-1	SDG No.:	M1785
Lab Sample ID:	M1785-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021571.D	10		03/29/21 12:55	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	10.0	U	2.30	10.0	ug/L
74-87-3	Chloromethane	10.0	U	2.00	10.0	ug/L
75-01-4	Vinyl Chloride	10.0	U	1.90	10.0	ug/L
74-83-9	Bromomethane	50.0	U	8.70	50.0	ug/L
75-00-3	Chloroethane	10.0	U	3.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	U	2.50	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	10.0	U	2.10	10.0	ug/L
75-35-4	1,1-Dichloroethene	10.0	U	2.60	10.0	ug/L
67-64-1	Acetone	50.0	U	16.1	50.0	ug/L
75-15-0	Carbon Disulfide	10.0	U	2.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	U	2.20	10.0	ug/L
79-20-9	Methyl Acetate	10.0	U	4.70	10.0	ug/L
75-09-2	Methylene Chloride	10.0	U	1.80	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	U	1.90	10.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	U	2.10	10.0	ug/L
110-82-7	Cyclohexane	50.0	U	13.0	50.0	ug/L
78-93-3	2-Butanone	50.0	U	9.00	50.0	ug/L
56-23-5	Carbon Tetrachloride	10.0	U	2.70	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	10.0	U	2.20	10.0	ug/L
74-97-5	Bromochloromethane	10.0	U	2.60	10.0	ug/L
67-66-3	Chloroform	10.0	U	2.70	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	U	2.00	10.0	ug/L
108-87-2	Methylcyclohexane	10.0	U	1.40	10.0	ug/L
71-43-2	Benzene	10.0	U	1.80	10.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	U	2.50	10.0	ug/L
79-01-6	Trichloroethene	12.8		1.70	10.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	U	1.70	10.0	ug/L
75-27-4	Bromodichloromethane	10.0	U	2.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	U	8.70	50.0	ug/L
108-88-3	Toluene	10.0	U	2.20	10.0	ug/L
10061-02-6	t-1,3-Dichloropropene	10.0	U	1.80	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	U	1.70	10.0	ug/L

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-1	SDG No.:	M1785
Lab Sample ID:	M1785-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021571.D	10		03/29/21 12:55	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	10.0	U	2.40	10.0	ug/L
591-78-6	2-Hexanone	50.0	U	9.20	50.0	ug/L
124-48-1	Dibromochloromethane	10.0	U	1.80	10.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	U	1.60	10.0	ug/L
127-18-4	Tetrachloroethene	10.0	U	1.70	10.0	ug/L
108-90-7	Chlorobenzene	10.0	U	1.70	10.0	ug/L
100-41-4	Ethyl Benzene	13.4		1.80	10.0	ug/L
1330-20-7	Total Xylenes	21.3	J	5.10	30.0	ug/L
100-42-5	Styrene	10.0	U	1.60	10.0	ug/L
75-25-2	Bromoform	10.0	U	1.90	10.0	ug/L
98-82-8	Isopropylbenzene	300		2.30	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	U	2.90	10.0	ug/L
103-65-1	n-propylbenzene	500		2.40	10.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	10.0	U	2.50	10.0	ug/L
98-06-6	tert-Butylbenzene	36.5		2.60	10.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	810		2.00	10.0	ug/L
135-98-8	sec-Butylbenzene	130		2.30	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	U	1.90	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	U	2.00	10.0	ug/L
104-51-8	n-Butylbenzene	62.2		1.90	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	U	1.90	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	10.0	U	4.70	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	U	3.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	10.0	U	3.50	10.0	ug/L
123-91-1	1,4-Dioxane	1000	U	69.8	1000	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.6		78 - 117	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.1		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		83 - 123	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	58500	5.629			
540-36-3	1,4-Difluorobenzene	105000	6.829			

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-1	SDG No.:	M1785
Lab Sample ID:	M1785-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021571.D	10		03/29/21 12:55	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
3114-55-4	Chlorobenzene-d5	106000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	48200	12.059			
TENTATIVE IDENTIFIED COMPOUNDS						
179601-23-1	m/p-Xylenes	21.3	J		10.3	ug/L
000526-73-8	Benzene, 1,2,3-trimethyl-	87.8	J		12.1	ug/L
000527-84-4	o-Cymene	89.8	J		12.2	ug/L
000622-97-9	Benzene, 1-ethenyl-4-methyl-	620	J		12.3	ug/L
000135-01-3	Benzene, 1,2-diethyl-	94.5	J		12.4	ug/L
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	300	J		12.7	ug/L
001005-64-7	(E)-1-Phenyl-1-butene	79.8	J		12.7	ug/L
003454-07-7	Benzene, 1-ethenyl-4-ethyl-	310	J		12.7	ug/L
017059-48-2	1H-Indene, 2,3-dihydro-1,6-dimethy	60.8	J		12.9	ug/L
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	140	J		13.0	ug/L
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	160	J		13.3	ug/L
91-20-3	Naphthalene	34.3	J		13.8	ug/L

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-1

Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:39 PM

Quant Time: Mar 30 03:26:17 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.629	168	58534	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	105367	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	106458	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	48214	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.035	65	49320	50.64	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.28%				
35) Dibromofluoromethane	5.458	113	37501	50.10	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.20%				
50) Toluene-d8	8.694	98	133624	50.10	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.20%				
62) 4-Bromofluorobenzene	11.118	95	54349	52.41	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.82%				
Target Compounds							Qvalue
44) Trichloroethene	7.188	130	993	1.28	ug/l		87
67) Ethyl Benzene	10.235	91	5238	1.34	ug/l		91
68) m/p-Xylenes	10.341	106	2963	2.13	ug/l		92
73) Isopropylbenzene	11.000	105	102371	30.22	ug/l		99
78) n-propylbenzene	11.341	91	200026	50.00	ug/l		97
83) tert-Butylbenzene	11.753	119	10295	3.65	ug/l		81
84) 1,2,4-Trimethylbenzene	11.789	105	235955	80.88	ug/l		98
85) sec-Butylbenzene	11.930	105	43181	13.29	ug/l		98
89) n-Butylbenzene	12.371	91	16860	6.22	ug/l	#	81
95) Naphthalene	13.812	128	10784	3.43	ug/l		99

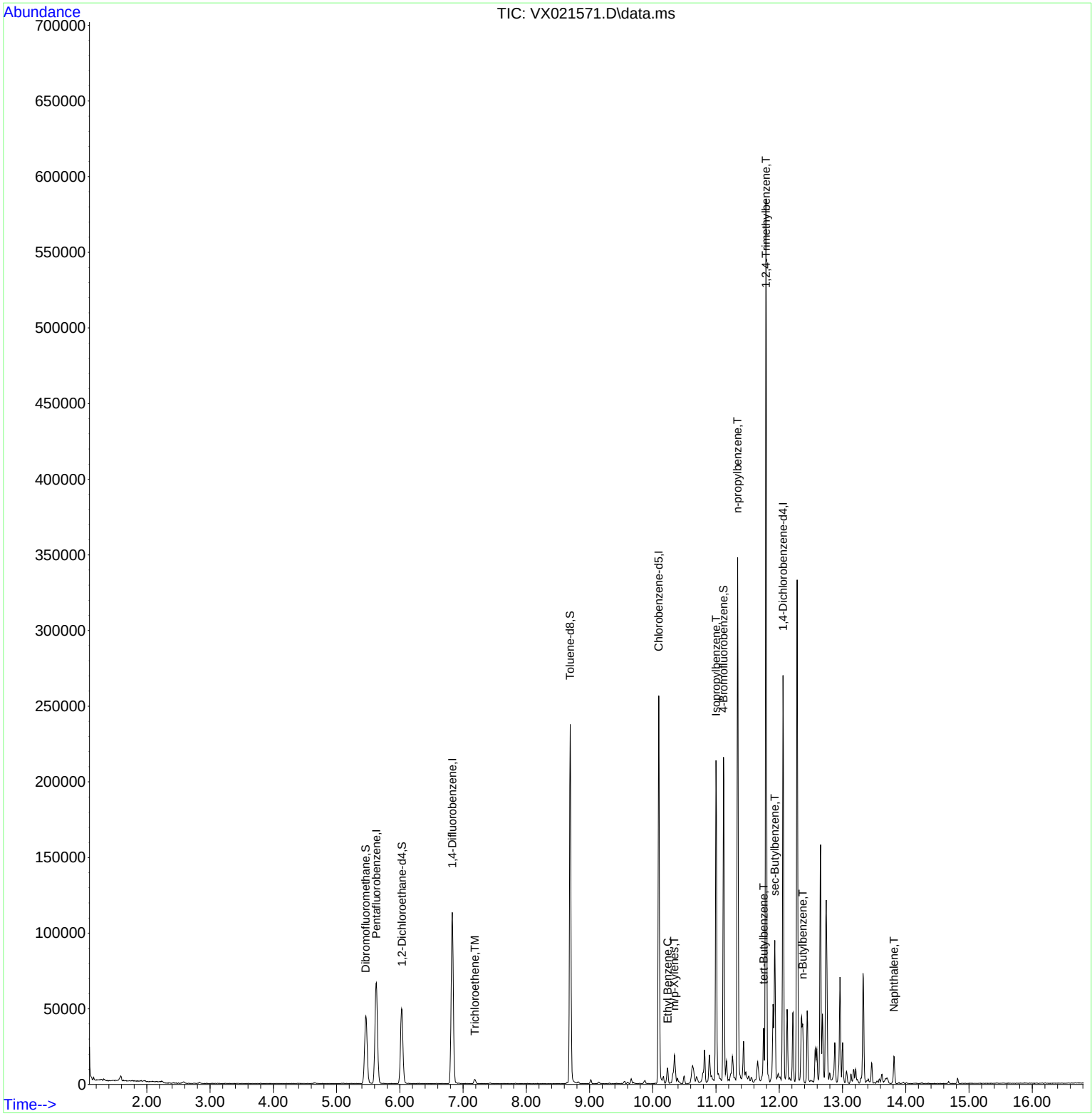
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 30 03:26:17 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

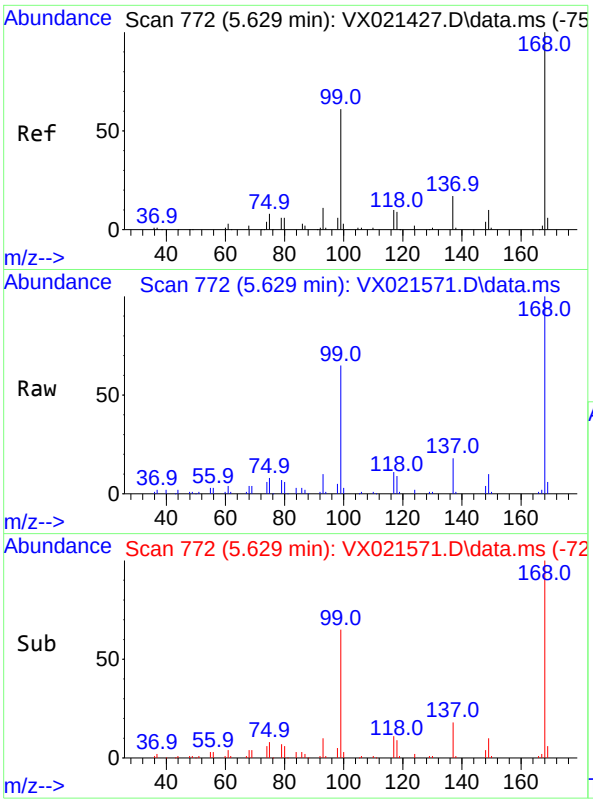
Instrument :
MSVOA_X
ClientSampleId :
MW-1

Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:39 PM



Instrument :
MSVOA_X
ClientSampleId :
MW-1

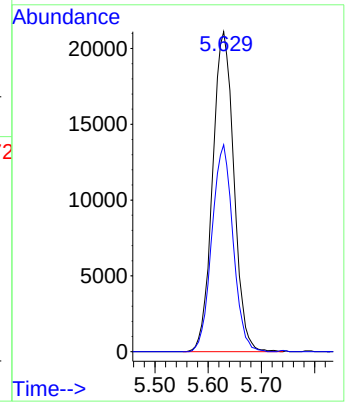
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3/31/2021 12:06:39 PM

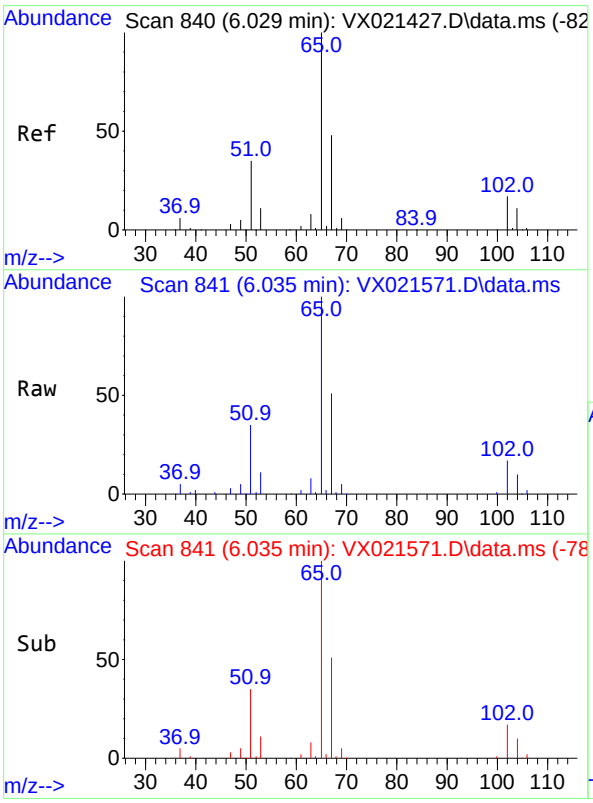


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 772
Delta R.T. -0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

Tgt Ion:168 Resp: 58534

Ion	Ratio	Lower	Upper
168	100		
99	64.7	45.8	68.6

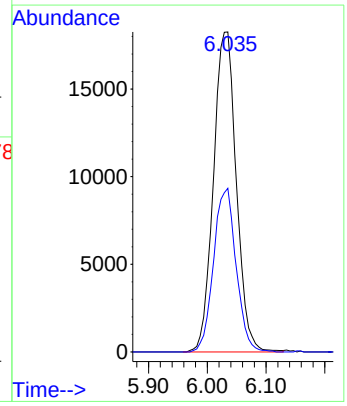




#33
1,2-Dichloroethane-d4
Concen: 50.64 ug/l
RT: 6.035 min Scan# 841
Delta R.T. 0.006 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

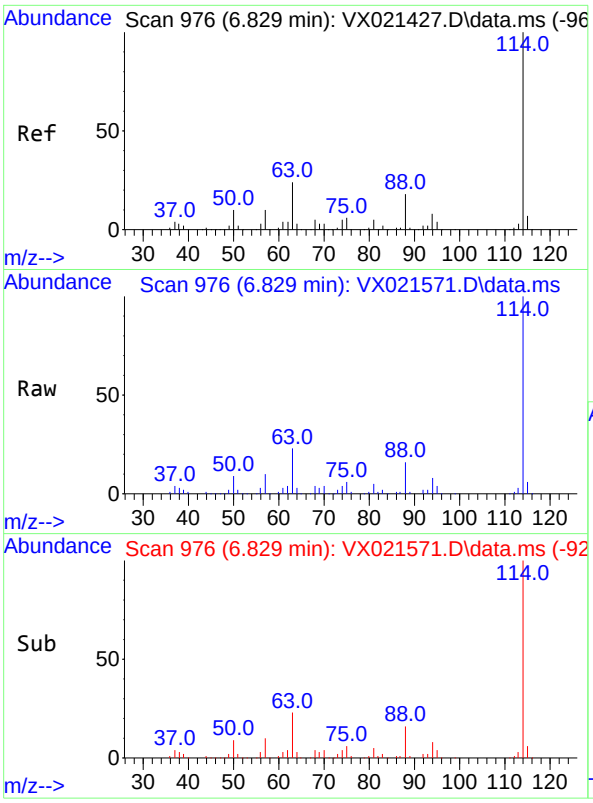
Tgt Ion: 65 Resp: 49320

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	105.4



Instrument :
MSVOA_X
ClientSampleId :
MW-1

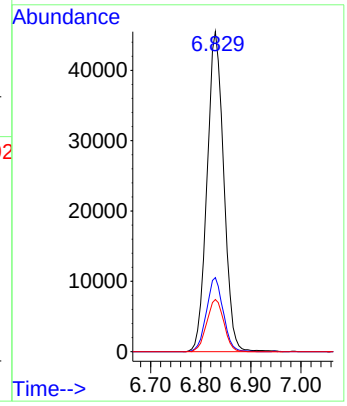
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:39 PM

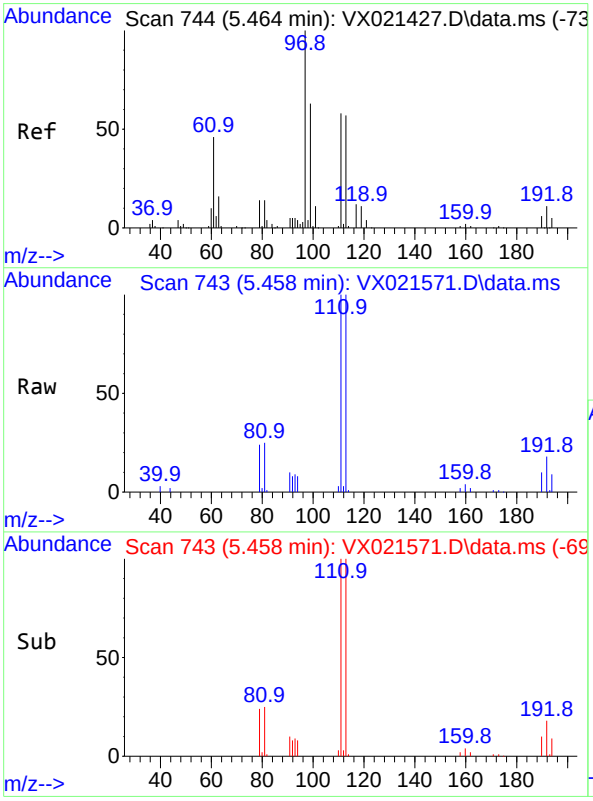


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

Tgt Ion:114 Resp: 105367

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	40.8
88	16.3	0.0	32.8

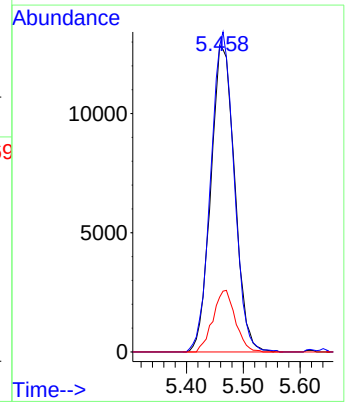




#35
Dibromofluoromethane
Concen: 50.10 ug/l
RT: 5.458 min Scan# 743
Delta R.T. -0.006 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

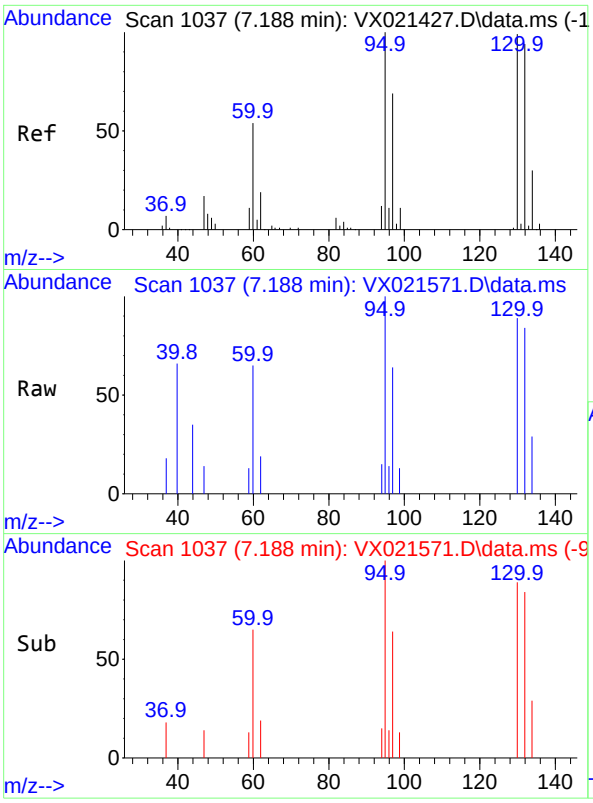
Tgt Ion:113 Resp: 37501

Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.9	122.9
192	18.8	16.7	25.1



Instrument :
MSVOA_X
ClientSampleId :
MW-1

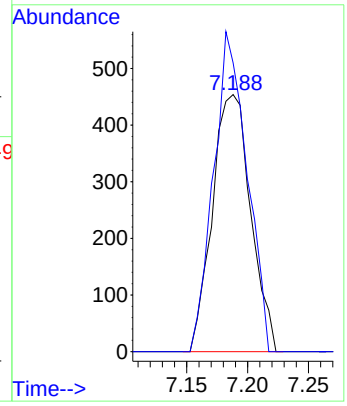
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:39 PM

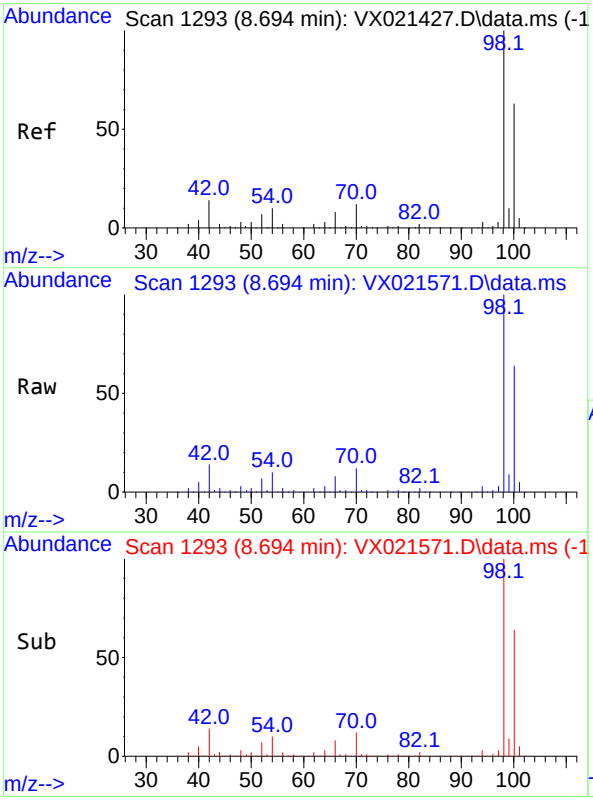


#44
Trichloroethene
Concen: 1.28 ug/l
RT: 7.188 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

Tgt Ion:130 Resp: 993

Ion	Ratio	Lower	Upper
130	100		
95	112.3	0.0	198.0

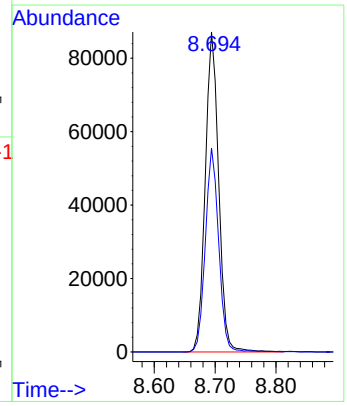




#50
Toluene-d8
Concen: 50.10 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

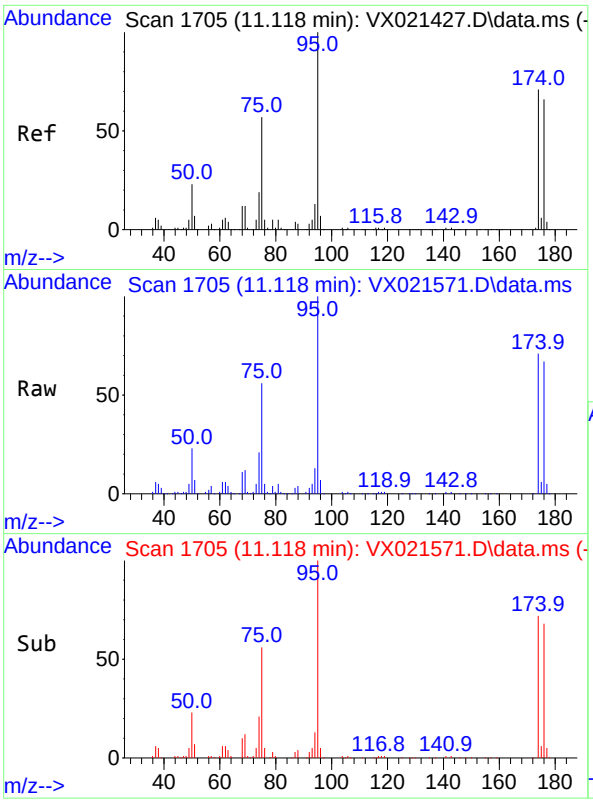
Tgt Ion: 98 Resp: 133624

Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
MW-1

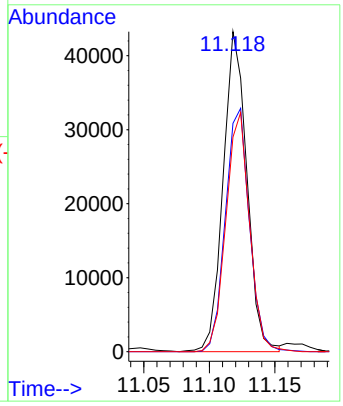
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:39 PM

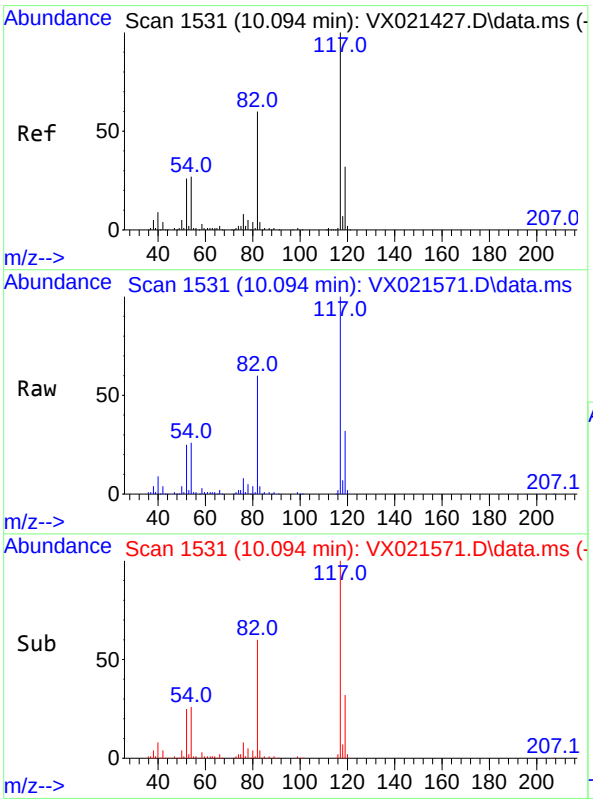


#62
4-Bromofluorobenzene
Concen: 52.41 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

Tgt Ion: 95 Resp: 54349

Ion	Ratio	Lower	Upper
95	100		
174	77.1	0.0	154.6
176	74.5	0.0	155.8

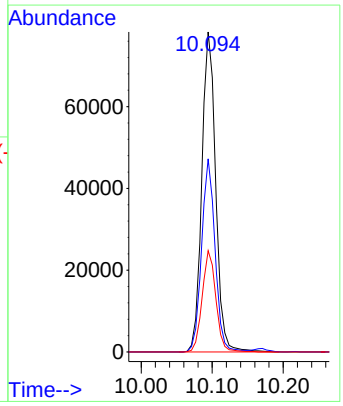




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

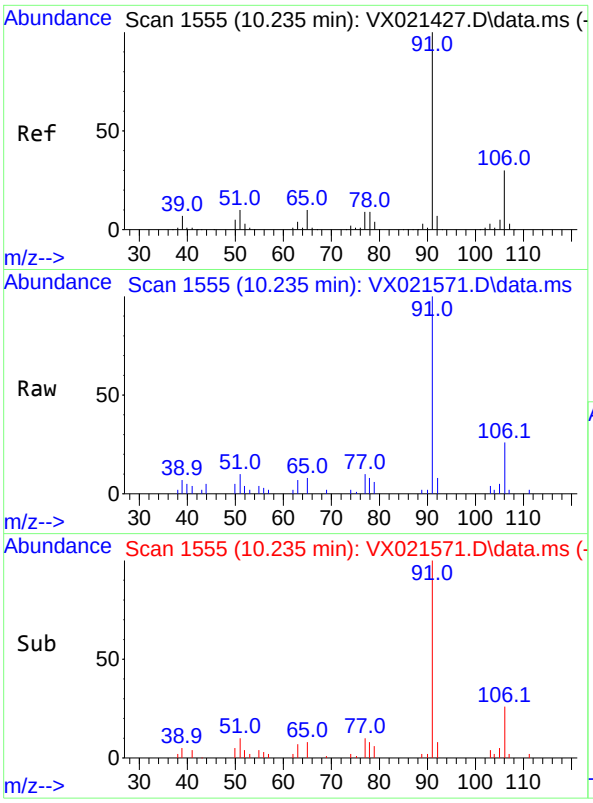
Tgt Ion:117 Resp: 106458

Ion	Ratio	Lower	Upper
117	100		
82	60.4	47.4	71.2
119	31.6	26.6	39.8



Instrument :
MSVOA_X
ClientSampleId :
MW-1

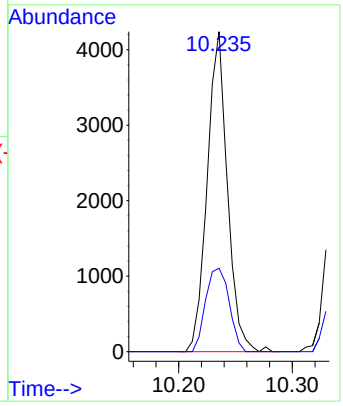
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:39 PM

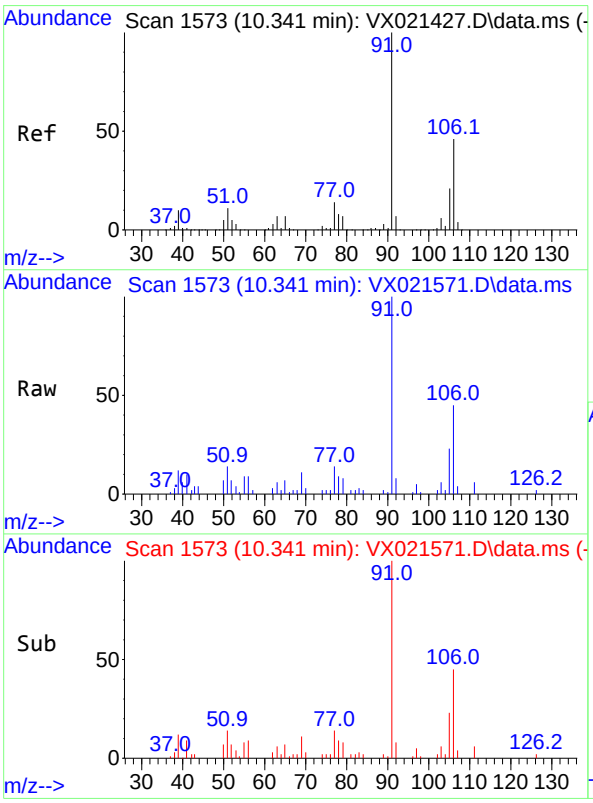


#67
Ethyl Benzene
Concen: 1.34 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

Tgt Ion: 91 Resp: 5238

Ion	Ratio	Lower	Upper
91	100		
106	26.1	24.6	37.0

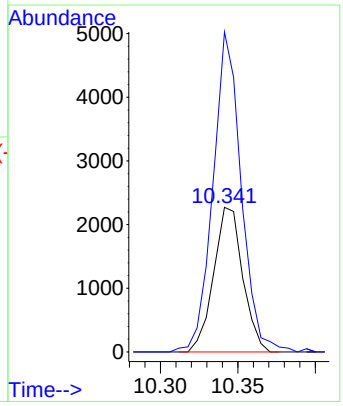




#68
m/p-Xylenes
Concen: 2.13 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

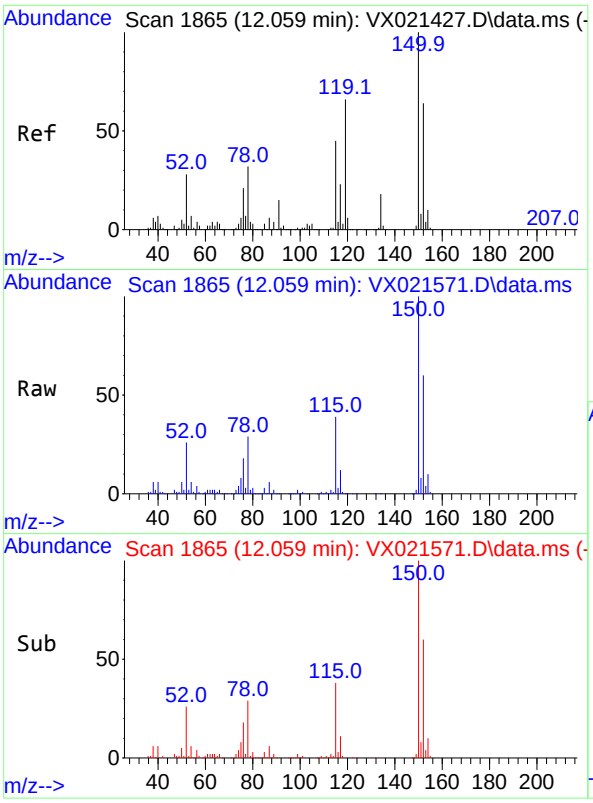
Tgt Ion:106 Resp: 2963

Ion	Ratio	Lower	Upper
106	100		
91	215.0	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1

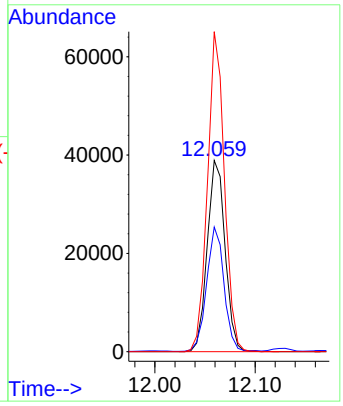
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:39 PM

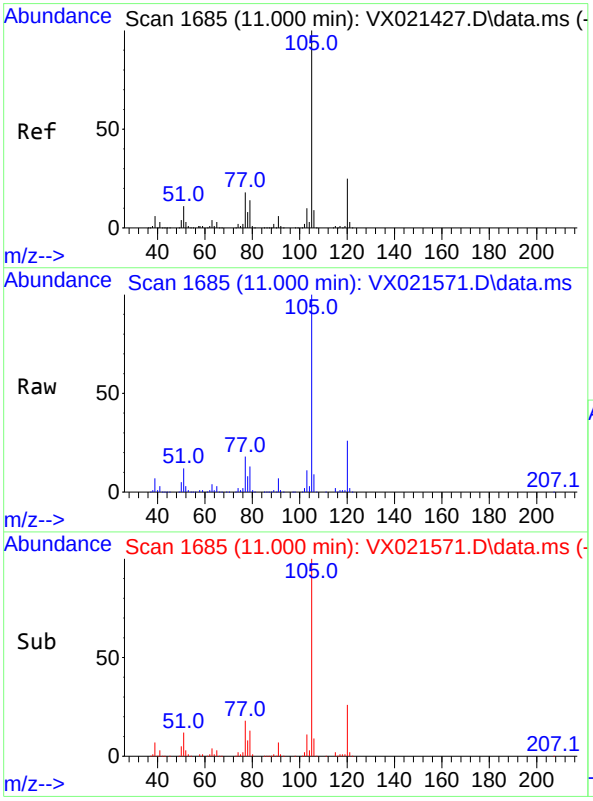


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

Tgt Ion:152 Resp: 48214

Ion	Ratio	Lower	Upper
152	100		
115	63.5	41.1	123.3
150	158.5	0.0	349.0

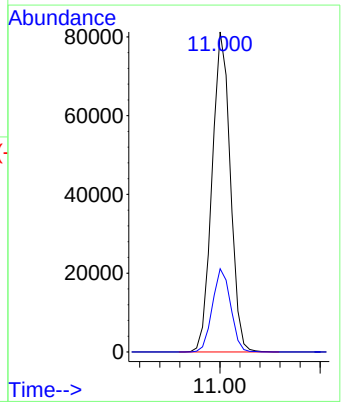




#73
Isopropylbenzene
Concen: 30.22 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

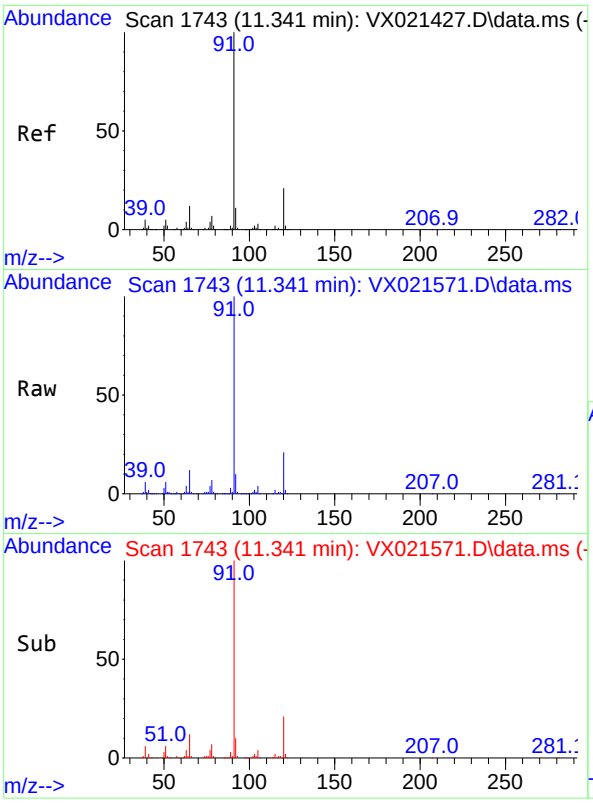
Tgt Ion:105 Resp: 102371

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.2	39.6



Instrument :
MSVOA_X
ClientSampleId :
MW-1

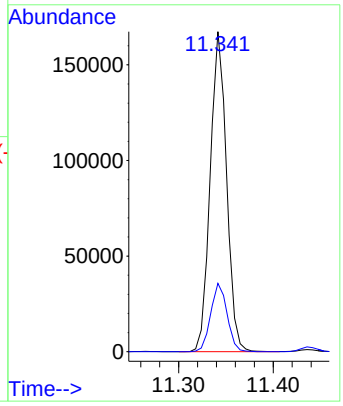
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3/31/2021 12:06:39 PM

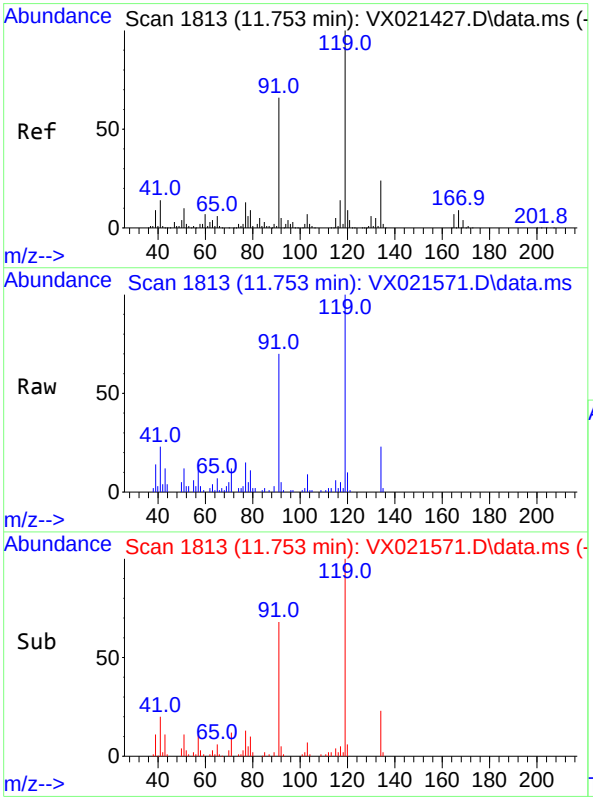


#78
n-propylbenzene
Concen: 50.00 ug/l
RT: 11.341 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

Tgt Ion: 91 Resp: 200026

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.5	34.5

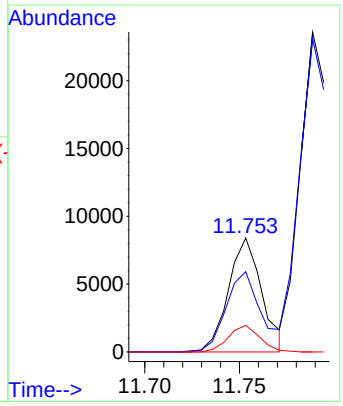




#83
tert-Butylbenzene
Concen: 3.65 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

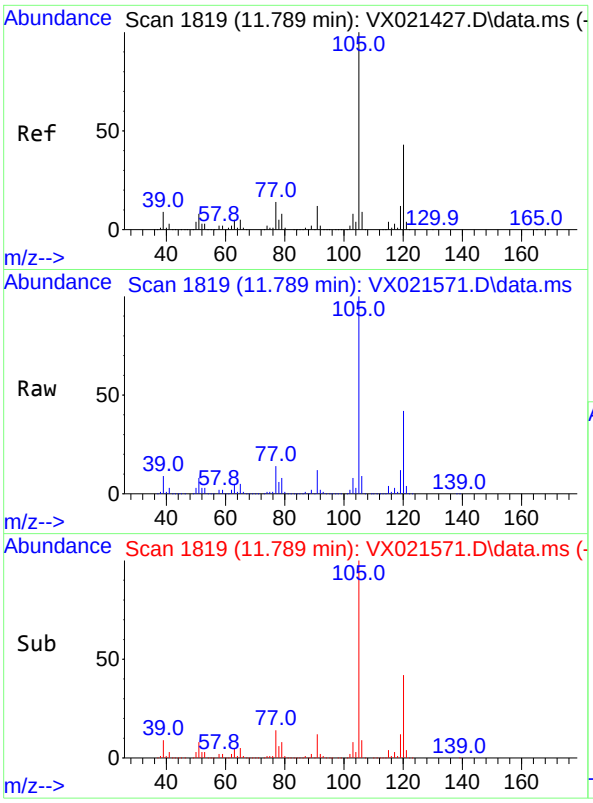
Tgt Ion:119 Resp: 10295

Ion	Ratio	Lower	Upper
119	100		
91	74.4	27.9	83.7
134	22.0	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
MW-1

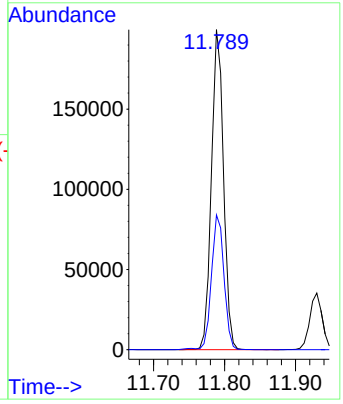
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:39 PM

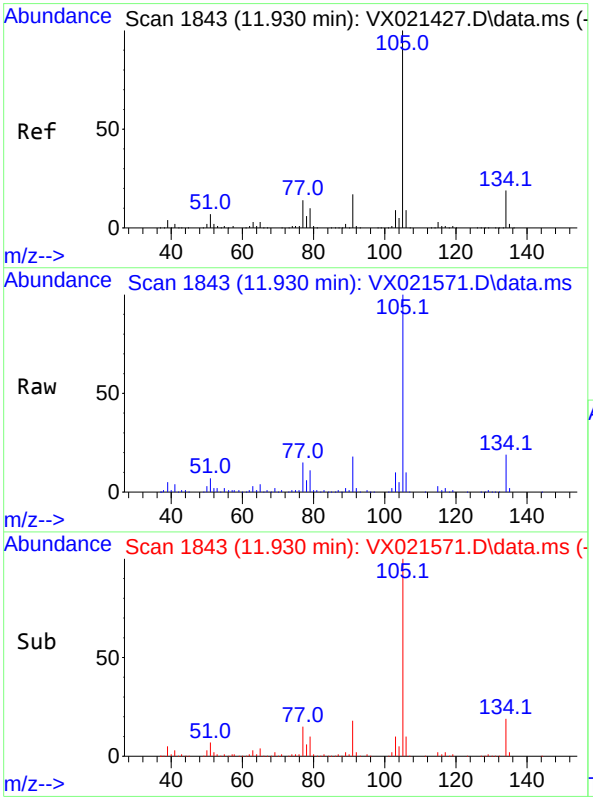


#84
1,2,4-Trimethylbenzene
Concen: 80.88 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

Tgt Ion:105 Resp: 235955

Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.4	67.3

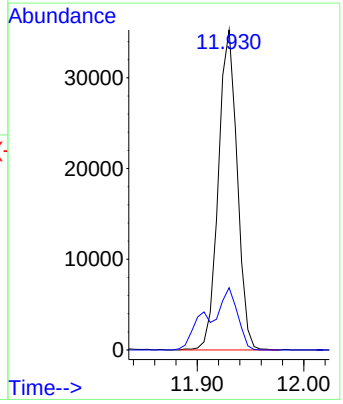




#85
sec-Butylbenzene
Concen: 13.29 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

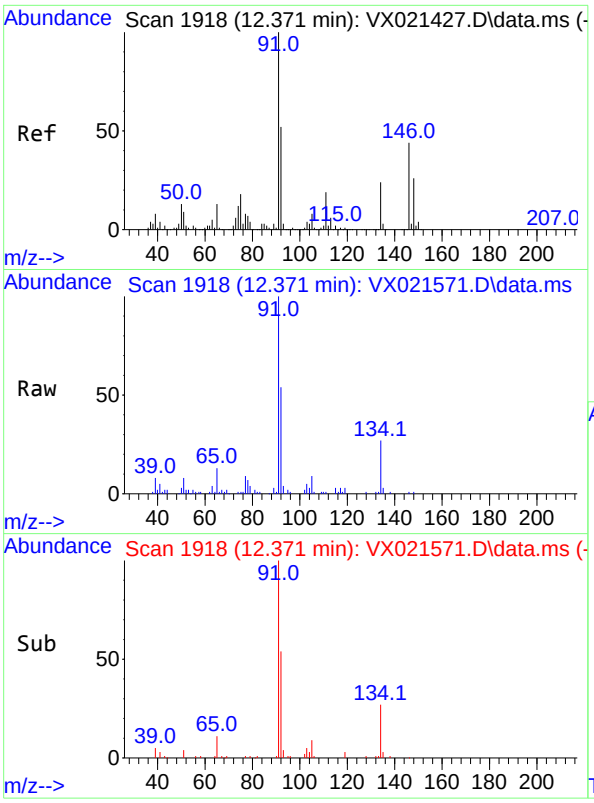
Tgt Ion:105 Resp: 43181

Ion	Ratio	Lower	Upper
105	100		
134	19.2	10.0	29.8



Instrument :
MSVOA_X
ClientSampleId :
MW-1

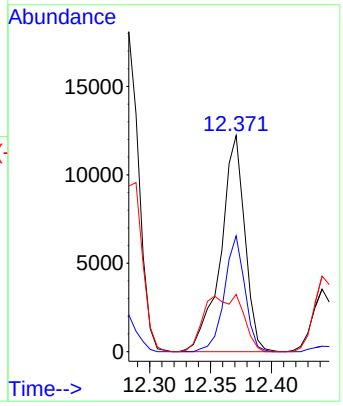
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:39 PM

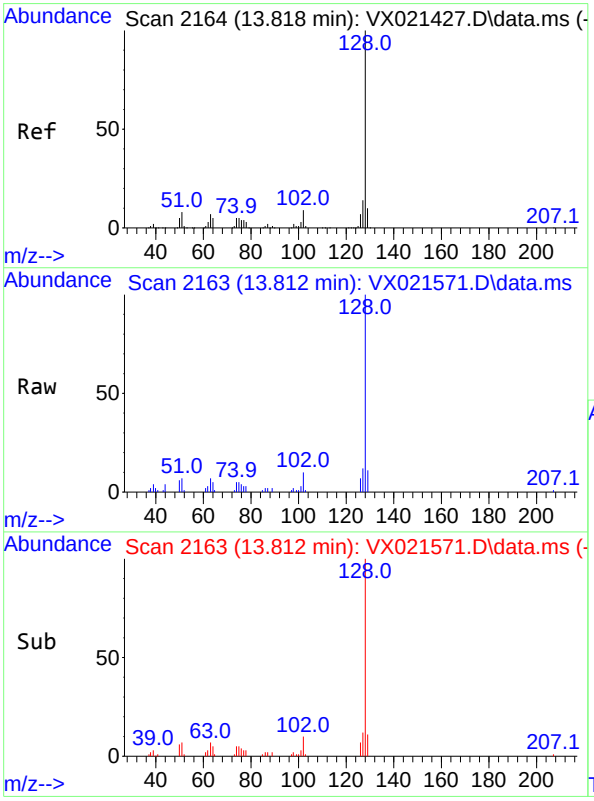


#89
n-Butylbenzene
Concen: 6.22 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

Tgt Ion: 91 Resp: 16860

Ion	Ratio	Lower	Upper
91	100		
92	45.3	27.4	82.0
134	42.1	13.2	39.5#

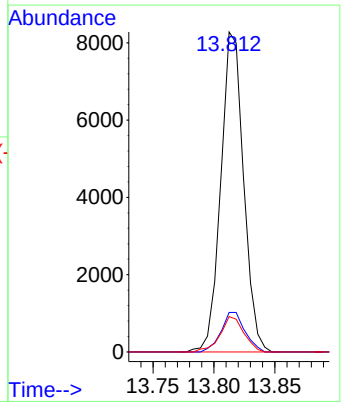




#95
Naphthalene
Concen: 3.43 ug/l
RT: 13.812 min Scan# 2163
Delta R.T. -0.006 min
Lab File: VX021571.D
Acq: 29 Mar 2021 12:55

Tgt Ion:128 Resp: 10784

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.5	8.8	13.2



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

Signal : TIC: VX021571.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.464	732	744	761	rBV2	44621	128488	18.53%	2.385%
2	5.629	761	772	786	rVB	66622	186216	26.85%	3.457%
3	6.029	830	840	857	rBV	49351	131520	18.97%	2.442%
4	6.829	965	976	987	rBV	113210	265005	38.21%	4.920%
5	8.694	1286	1293	1310	rVB	236999	366090	52.79%	6.796%
6	10.094	1525	1531	1540	rBV	256251	345118	49.77%	6.407%
7	10.235	1548	1555	1559	rVB	10155	15637	2.25%	0.290%
8	10.341	1563	1573	1579	rBV3	18531	39138	5.64%	0.727%
9	10.494	1592	1599	1604	rVB2	5179	7738	1.12%	0.144%
10	10.630	1608	1622	1629	rBV5	12072	33892	4.89%	0.629%
11	10.794	1639	1650	1651	rBV4	6452	10097	1.46%	0.187%
12	10.818	1651	1654	1659	rVB	21423	26615	3.84%	0.494%
13	10.894	1659	1667	1671	rBV3	18273	29260	4.22%	0.543%
14	11.000	1680	1685	1690	rBV	211622	265037	38.22%	4.920%
15	11.118	1700	1705	1710	rBV	213641	274659	39.61%	5.099%
16	11.165	1710	1713	1717	rVB2	12959	16665	2.40%	0.309%
17	11.259	1721	1729	1733	rBV5	15872	29635	4.27%	0.550%
18	11.341	1738	1743	1752	rBV	345520	420901	60.69%	7.814%
19	11.436	1754	1759	1763	rBV2	24714	34664	5.00%	0.644%
20	11.659	1791	1797	1804	rVB5	12708	23705	3.42%	0.440%
21	11.753	1804	1813	1815	rBV	34899	46857	6.76%	0.870%
22	11.789	1815	1819	1825	rVV	582082	693485	100.00%	12.874%
23	11.900	1829	1838	1840	rBV	51307	69523	10.03%	1.291%
24	11.930	1840	1843	1848	rVB	91528	110264	15.90%	2.047%
25	12.059	1860	1865	1871	rBV	267569	322603	46.52%	5.989%
26	12.124	1871	1876	1881	rVB	46259	56673	8.17%	1.052%
27	12.218	1886	1892	1897	rVB	45646	57930	8.35%	1.075%
28	12.283	1897	1903	1908	rBV	331532	400716	57.78%	7.439%
29	12.353	1909	1915	1916	rBV	42248	54272	7.83%	1.008%
30	12.442	1924	1930	1937	rBV	47832	60972	8.79%	1.132%
31	12.571	1947	1952	1954	rBV	22209	31207	4.50%	0.579%
32	12.595	1954	1956	1960	rVV	21381	21683	3.13%	0.403%
33	12.653	1960	1966	1969	rVV	155968	194209	28.00%	3.605%
34	12.683	1969	1971	1976	rVV	43780	51490	7.42%	0.956%
35	12.742	1976	1981	1988	rVB3	118474	199733	28.80%	3.708%
36	12.877	1996	2004	2009	rVB2	26201	39197	5.65%	0.728%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

37	12.959	2010	2018	2022	rBV	69404	92337	13.31%	1.714%
38	13.001	2022	2025	2031	rVB	26507	33124	4.78%	0.615%
39	13.065	2031	2036	2043	rVB3	8126	12383	1.79%	0.230%
40	13.130	2043	2047	2051	rBV	6244	8745	1.26%	0.162%
41	13.177	2051	2055	2057	rBV2	7744	9332	1.35%	0.173%
42	13.206	2057	2060	2063	rVB	7238	7987	1.15%	0.148%
43	13.324	2075	2080	2087	rVB2	72148	103588	14.94%	1.923%
44	13.459	2099	2103	2107	rVB	13343	17325	2.50%	0.322%
45	13.624	2126	2131	2135	rVB4	5270	7567	1.09%	0.140%
46	13.701	2142	2144	2155	rVB5	3784	7003	1.01%	0.130%
47	13.812	2155	2163	2169	rVB	18040	26278	3.79%	0.488%

Sum of corrected areas: 5386563

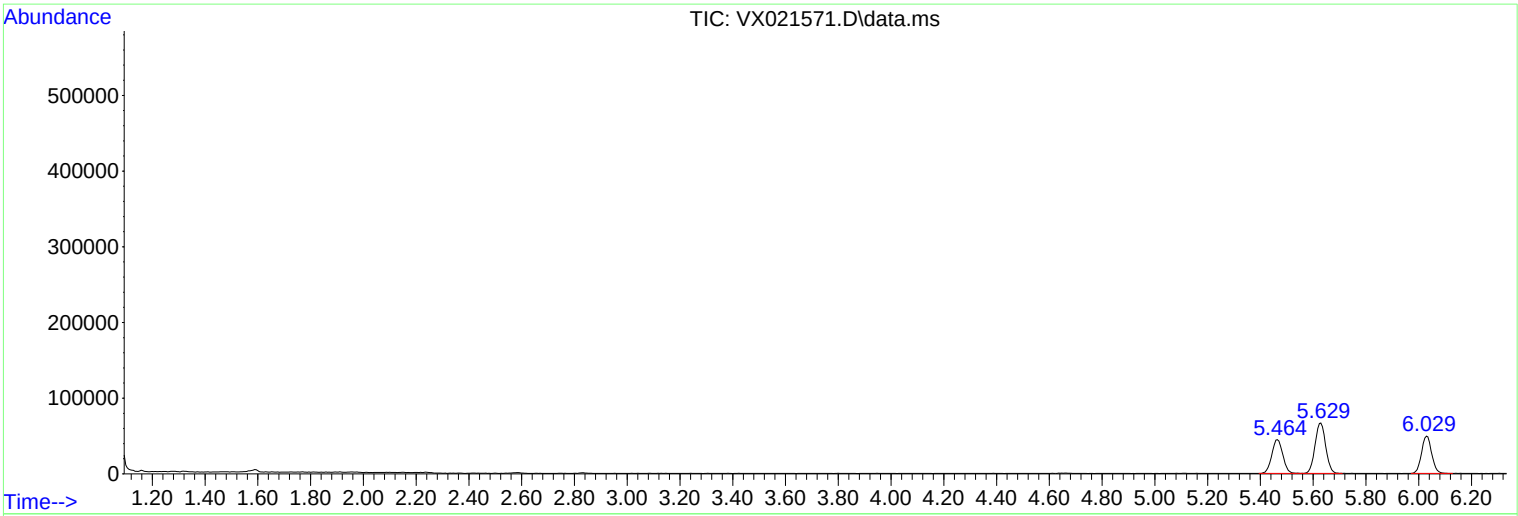
Sample Results: **VX021571.D**

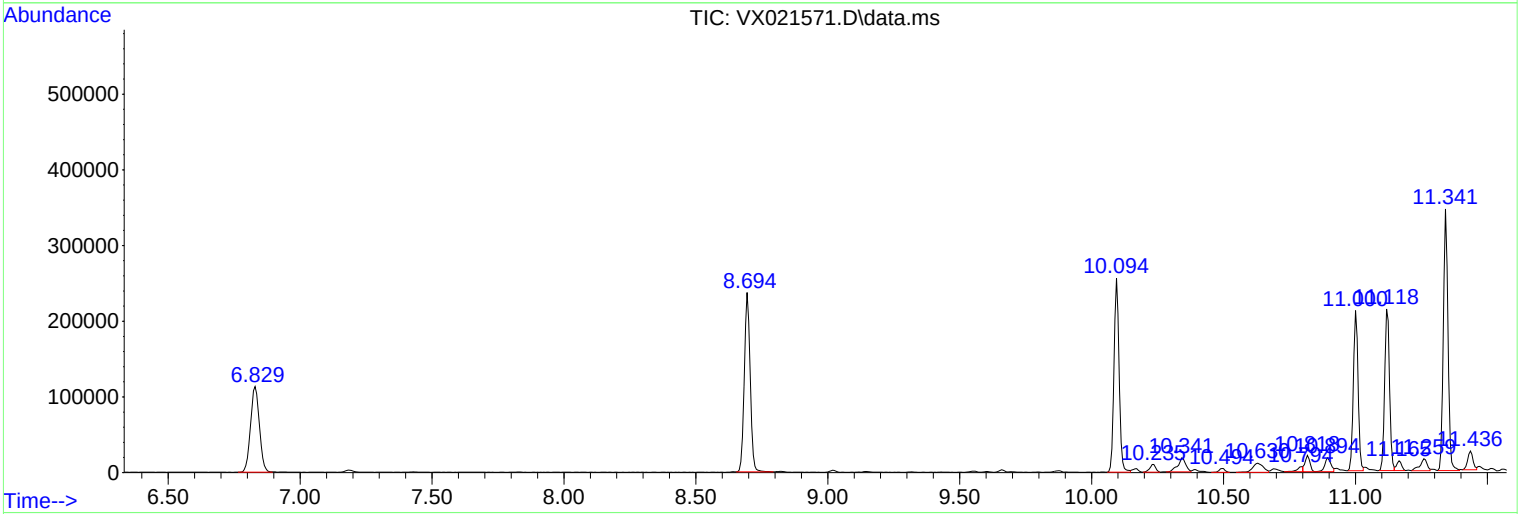
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Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

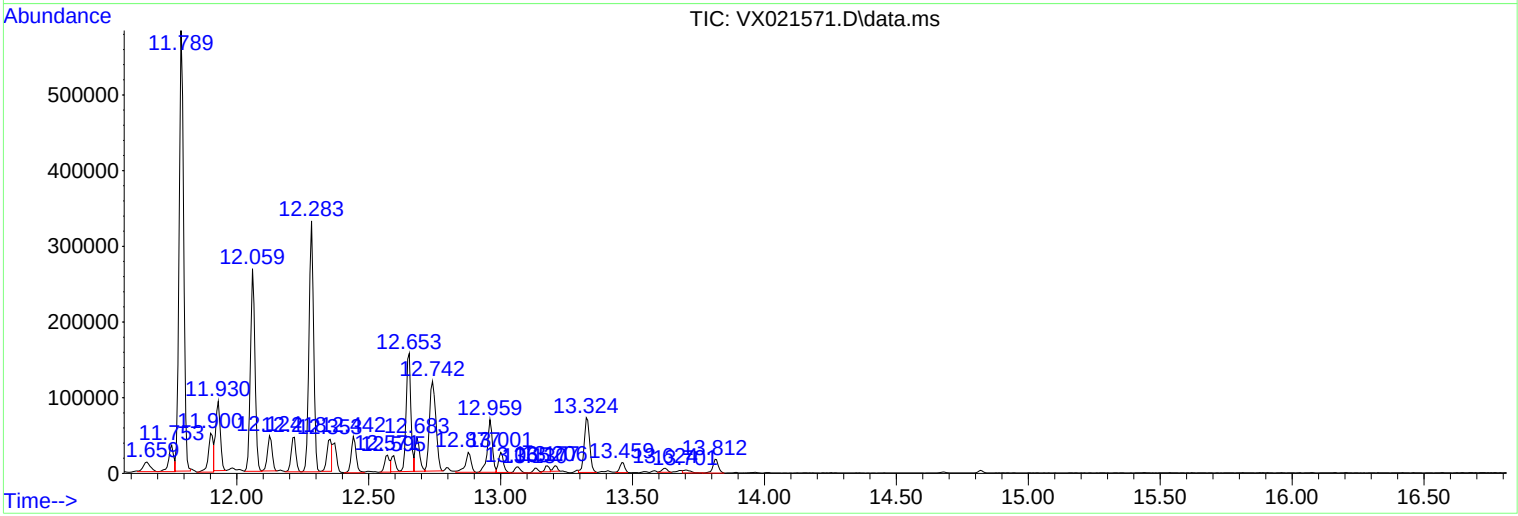
Instrument :
MSVOA_X
ClientSampleId :
MW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

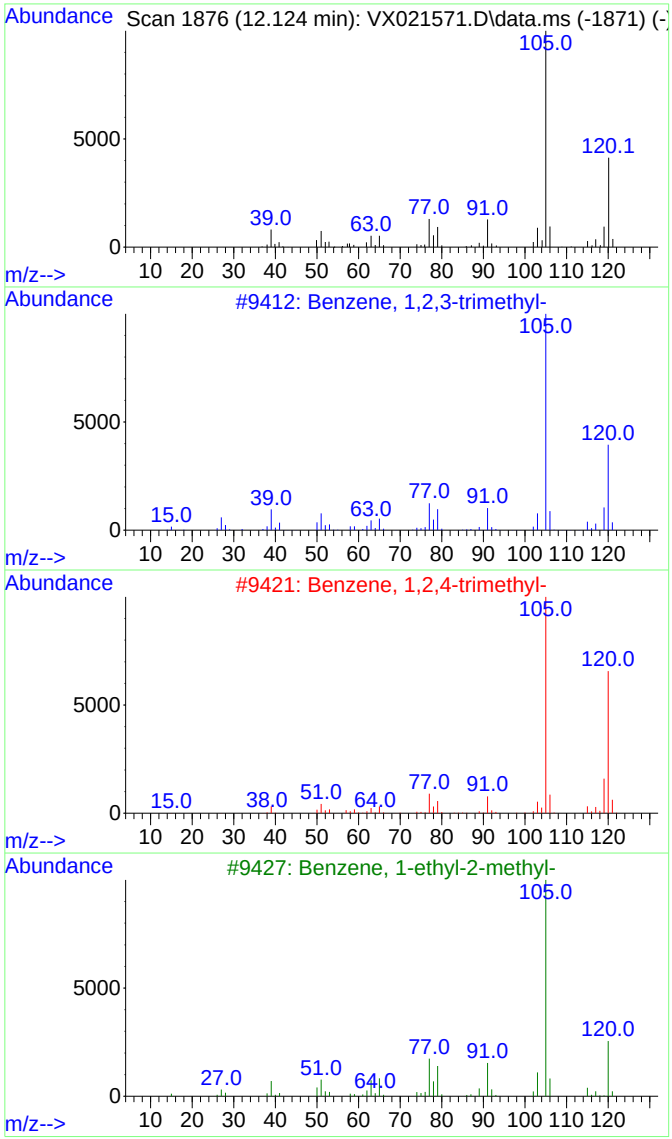
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TIC Integration Parameters: LSCINT.P

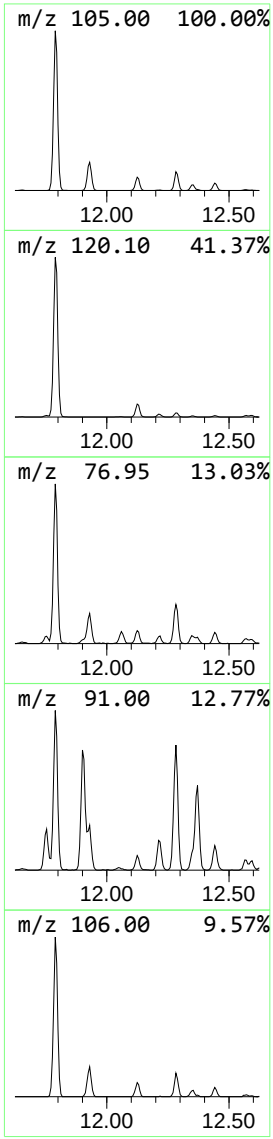
****

Peak Number 1 Benzene, 1,2,3-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.124	8.78 ug/l	56673	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	97
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
4	Mesitylene	120	C9H12	000108-67-8	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

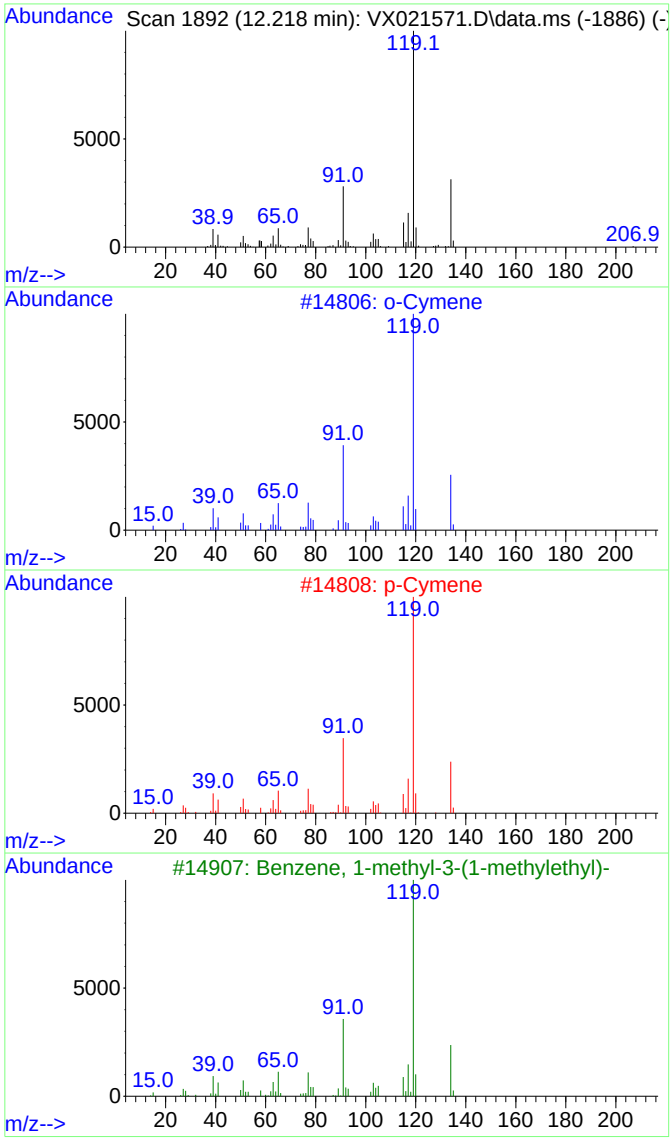
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TIC Integration Parameters: LSCINT.P

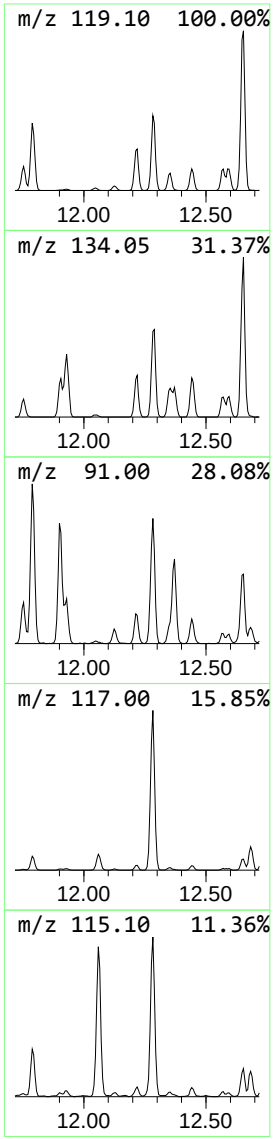
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Peak Number 2 o-Cymene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.218	8.98 ug/l	57930	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	95
2	p-Cymene	134	C10H14	000099-87-6	94
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

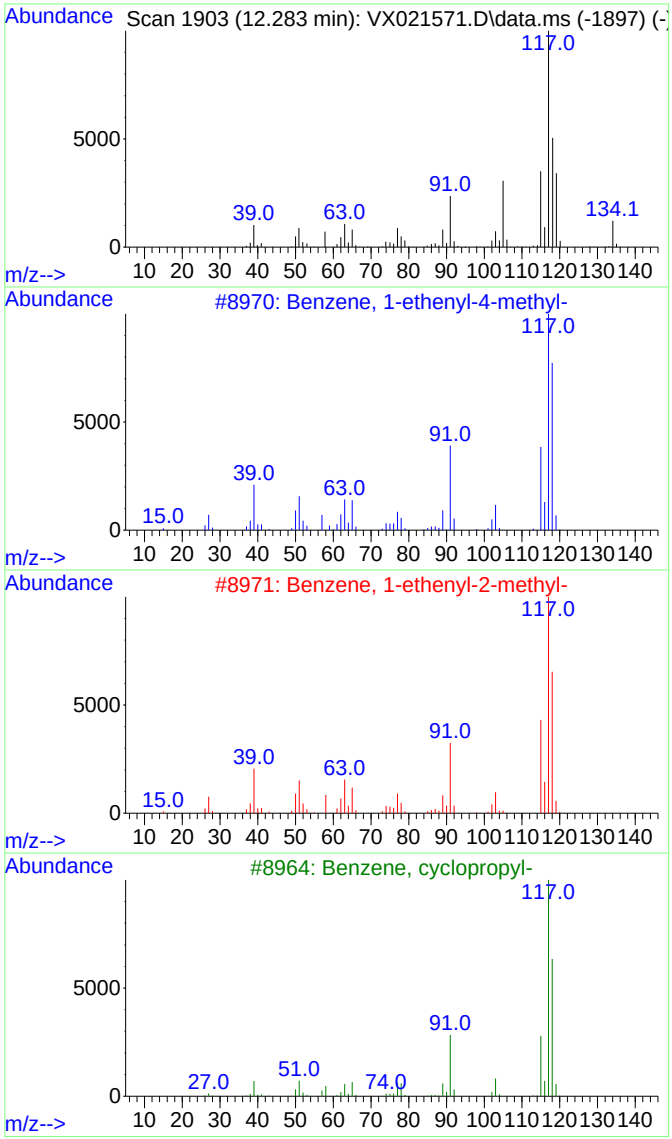
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

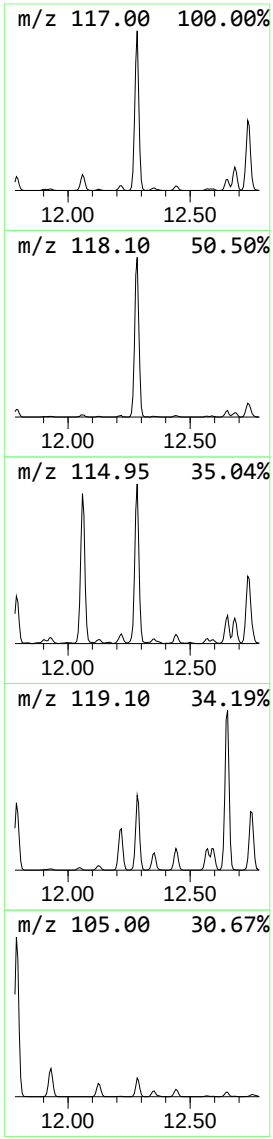
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Peak Number 3 Benzene, 1-ethenyl-4-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.283	62.11 ug/l	400716	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	86
2	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	83
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	64
4	Benzene, 1-propenyl-	118	C9H10	000637-50-3	64
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

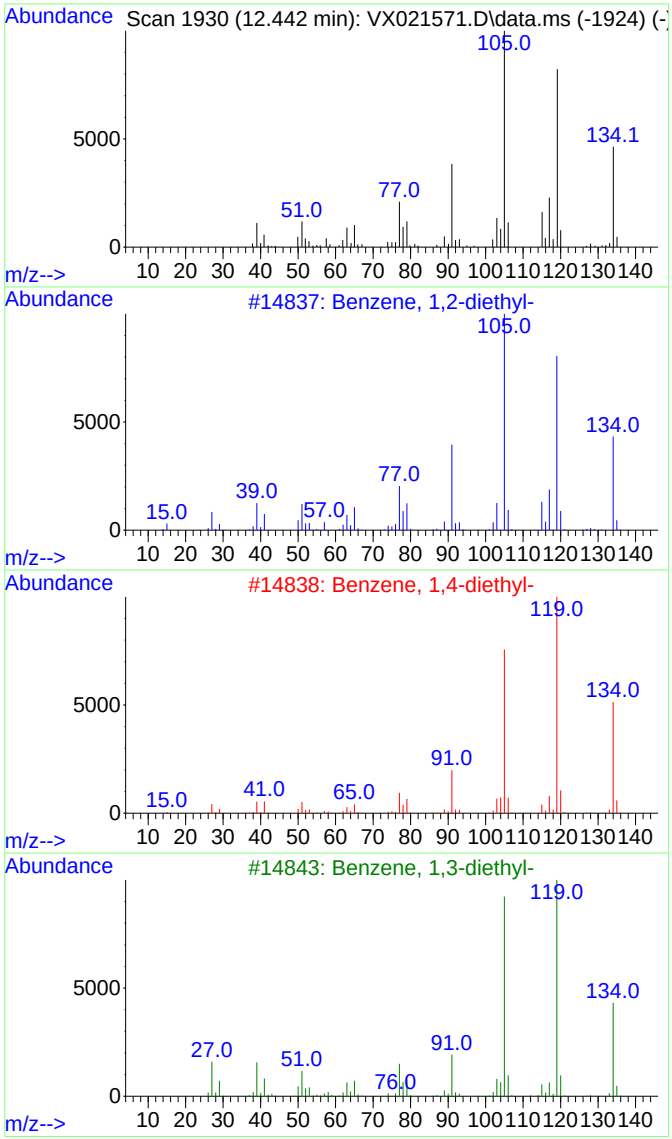
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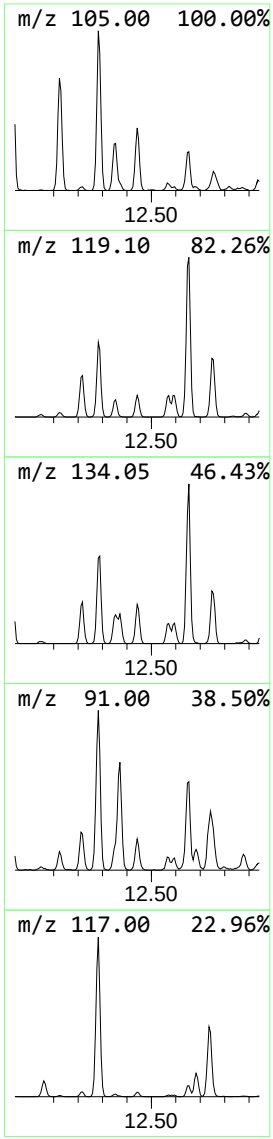
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Peak Number 4 Benzene, 1,2-diethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.442	9.45 ug/l	60972	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	98
2	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	90
3	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	87
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	74
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	68





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-1

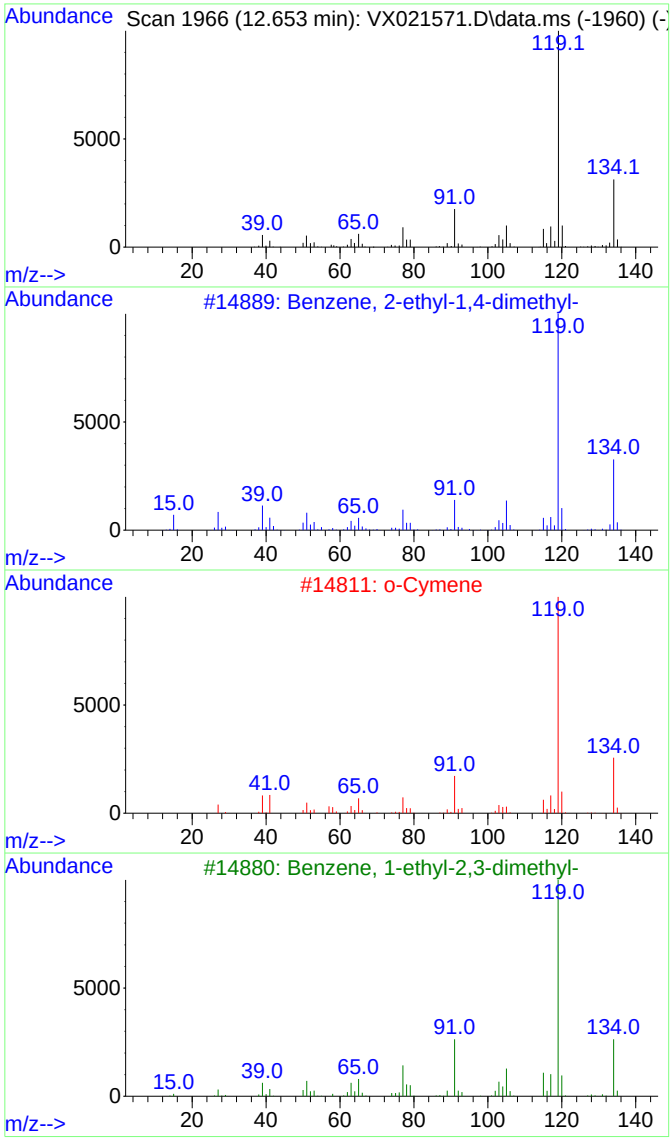
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Quant Title : SW846 8260

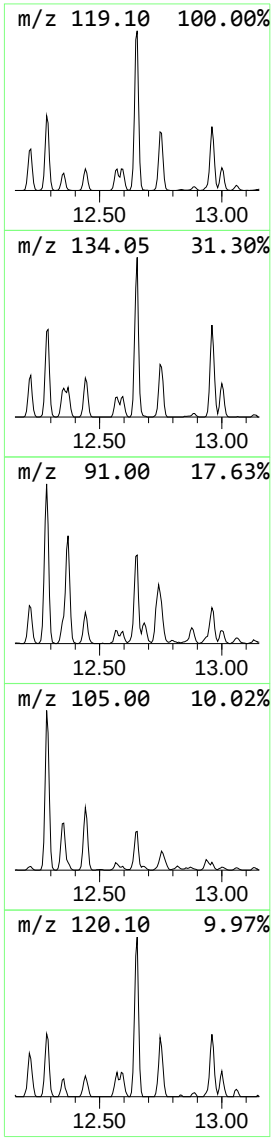
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.653	30.10 ug/l	194209	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
2	o-Cymene	134	C10H14	000527-84-4	95
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
5	p-Cymene	134	C10H14	000099-87-6	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

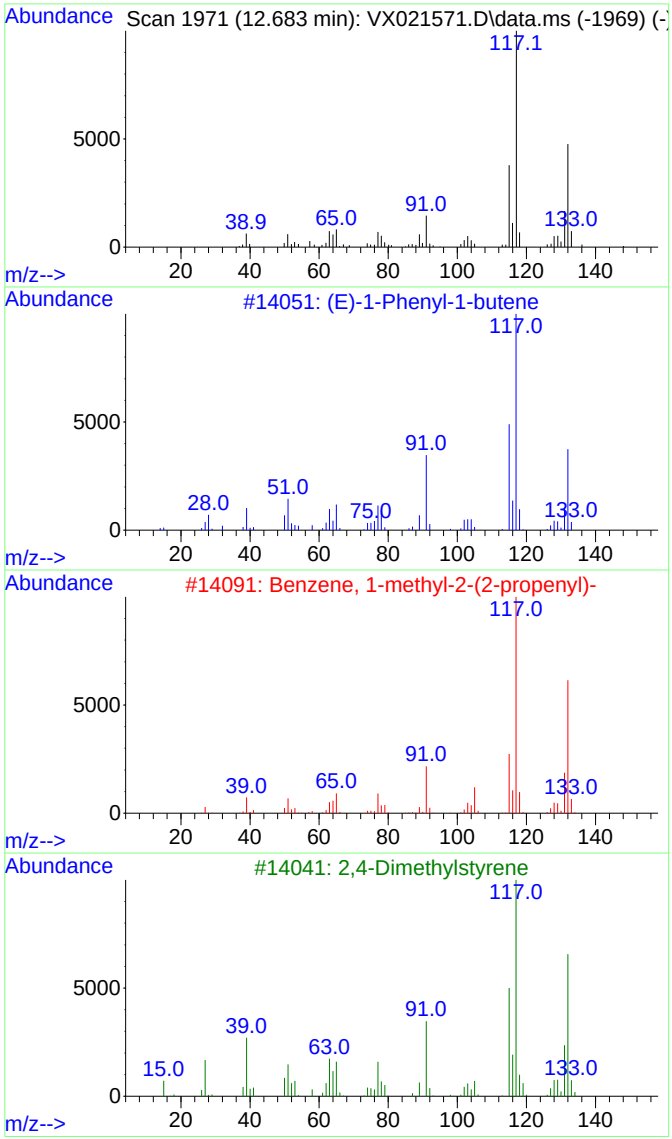
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

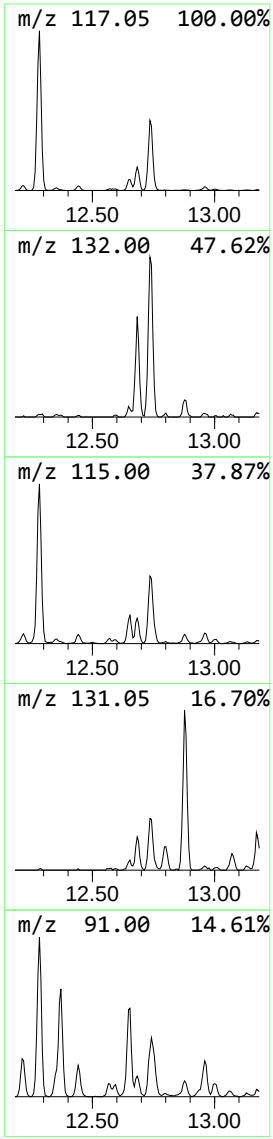
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Peak Number 6 (E)-1-Phenyl-1-butene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.683	7.98 ug/l	51490	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	94
2	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	94
3	2,4-Dimethylstyrene	132	C10H12	002234-20-0	93
4	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	92
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

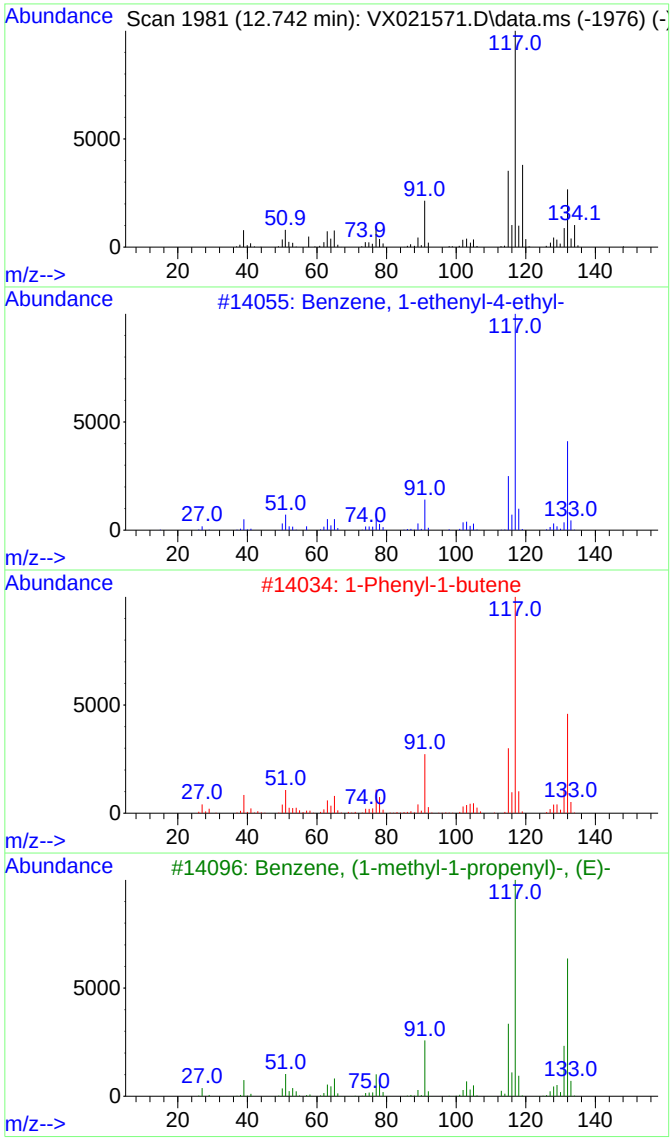
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TIC Integration Parameters: LSCINT.P

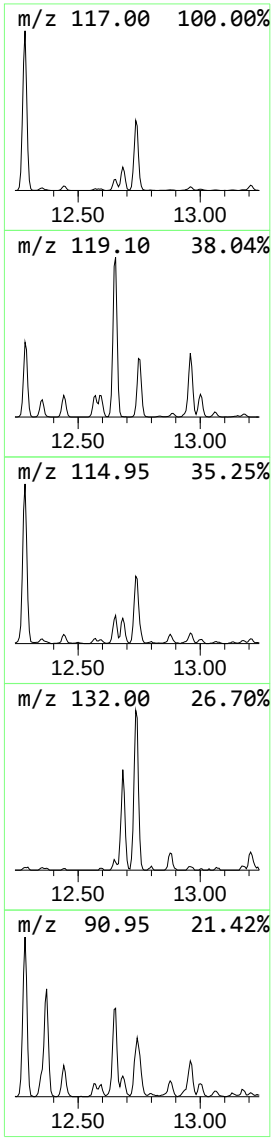
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Peak Number 7 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.742	30.96 ug/l	199733	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	81
2	1-Phenyl-1-butene	132	C10H12	000824-90-8	81
3	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	81
4	Indan, 1-methyl-	132	C10H12	000767-58-8	81
5	3-Phenylbut-1-ene	132	C10H12	000934-10-1	74





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-1

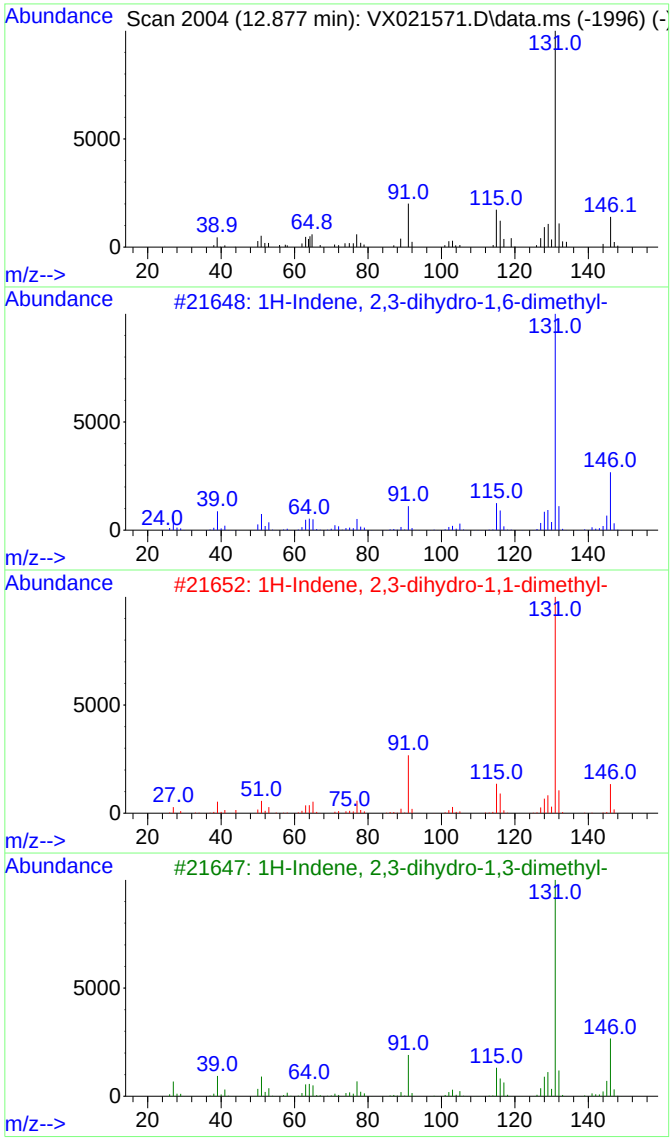
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Quant Title : SW846 8260

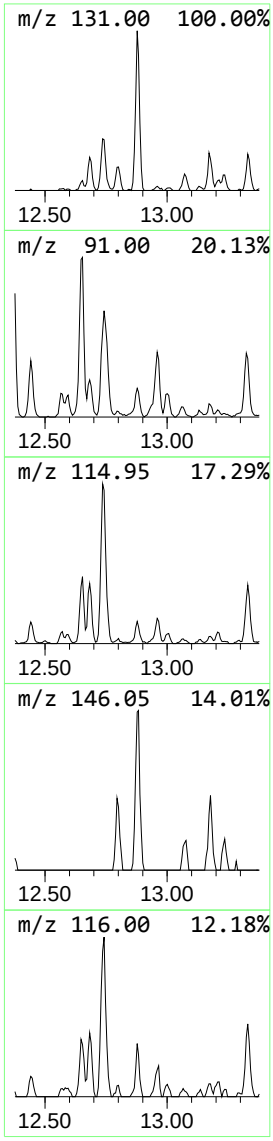
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.877	6.08 ug/l	39197	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	96
2	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	94
3	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	90
4	Benzene, 1-methyl-2-(1-methyl-2-...	146	C11H14	097664-19-2	90
5	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-1

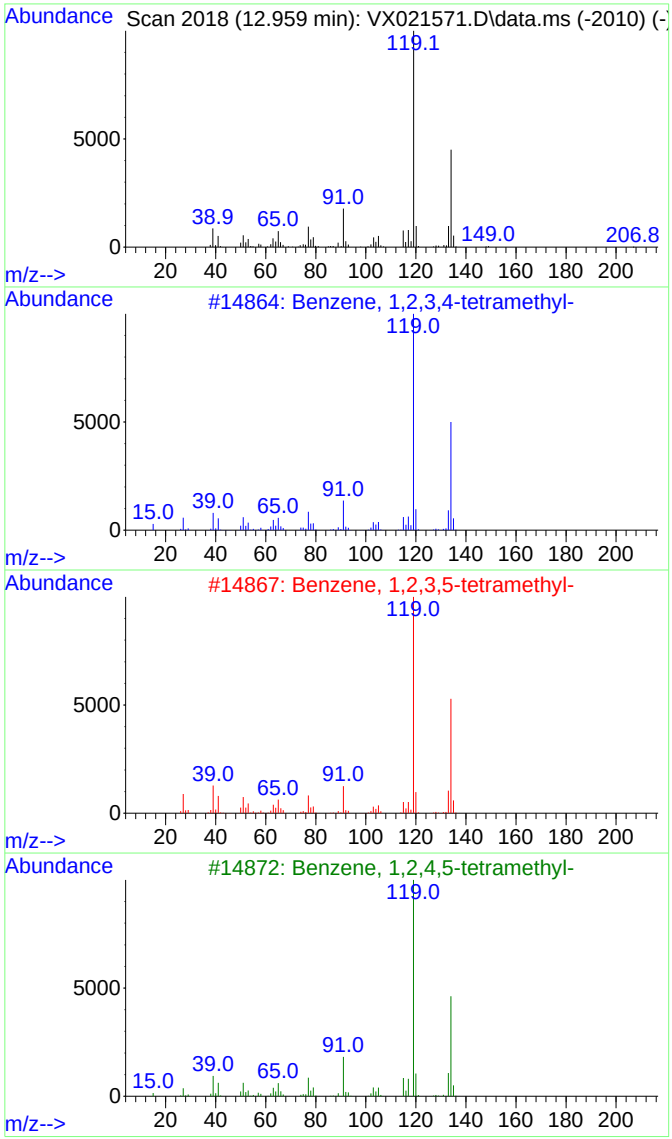
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

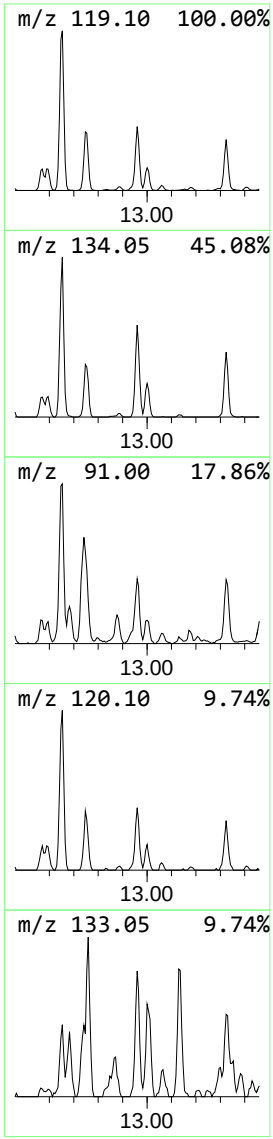
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.959	14.31 ug/l	92337	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	96
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
4	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	95
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

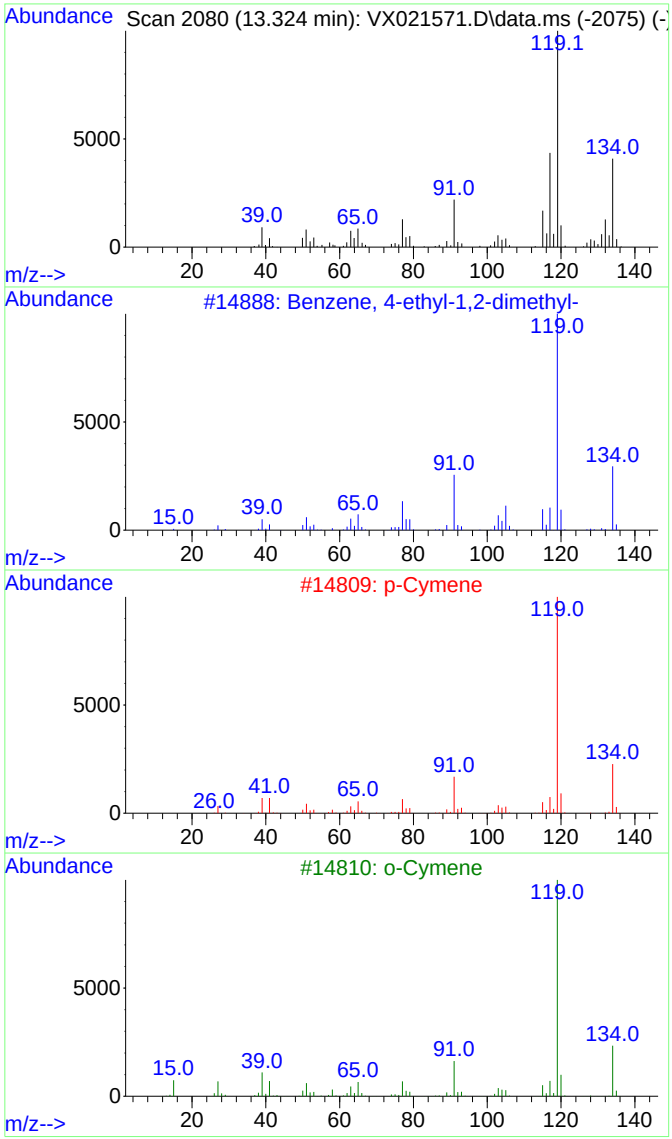
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

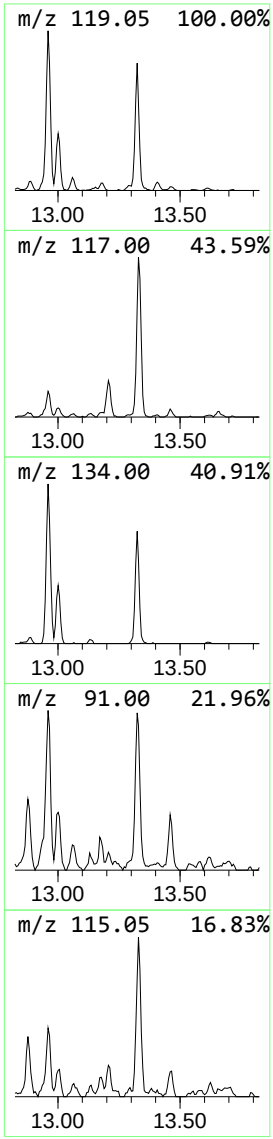
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Peak Number 10 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.324	16.06 ug/l	103588	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	70
2	p-Cymene	134	C10H14	000099-87-6	70
3	o-Cymene	134	C10H14	000527-84-4	70
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	70
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	64





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021571.D
Acq On : 29 Mar 2021 12:55
Operator : JC/MD
Sample : M1785-10 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzene, 1,2,3-...	12.124	8.8	ug/l	56673	4	12.059	322603	50.0
o-Cymene	12.218	9.0	ug/l	57930	4	12.059	322603	50.0
Benzene, 1-ethe...	12.283	62.1	ug/l	400716	4	12.059	322603	50.0
Benzene, 1,2-di...	12.442	9.4	ug/l	60972	4	12.059	322603	50.0
Benzene, 2-ethy...	12.653	30.1	ug/l	194209	4	12.059	322603	50.0
(E)-1-Phenyl-1-...	12.683	8.0	ug/l	51490	4	12.059	322603	50.0
Benzene, 1-ethe...	12.742	31.0	ug/l	199733	4	12.059	322603	50.0
1H-Indene, 2,3-...	12.877	6.1	ug/l	39197	4	12.059	322603	50.0
Benzene, 1,2,3,...	12.959	14.3	ug/l	92337	4	12.059	322603	50.0
Benzene, 4-ethy...	13.324	16.1	ug/l	103588	4	12.059	322603	50.0

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-2	SDG No.:	M1785
Lab Sample ID:	M1785-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021579.D	10		03/29/21 16:02	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	10.0	U	2.30	10.0	ug/L
74-87-3	Chloromethane	10.0	U	2.00	10.0	ug/L
75-01-4	Vinyl Chloride	10.0	U	1.90	10.0	ug/L
74-83-9	Bromomethane	50.0	U	8.70	50.0	ug/L
75-00-3	Chloroethane	10.0	U	3.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	U	2.50	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	10.0	U	2.10	10.0	ug/L
75-35-4	1,1-Dichloroethene	10.0	U	2.60	10.0	ug/L
67-64-1	Acetone	50.0	U	16.1	50.0	ug/L
75-15-0	Carbon Disulfide	10.0	U	2.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	U	2.20	10.0	ug/L
79-20-9	Methyl Acetate	10.0	U	4.70	10.0	ug/L
75-09-2	Methylene Chloride	10.0	U	1.80	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	U	1.90	10.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	U	2.10	10.0	ug/L
110-82-7	Cyclohexane	50.0	U	13.0	50.0	ug/L
78-93-3	2-Butanone	50.0	U	9.00	50.0	ug/L
56-23-5	Carbon Tetrachloride	10.0	U	2.70	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	10.0	U	2.20	10.0	ug/L
74-97-5	Bromochloromethane	10.0	U	2.60	10.0	ug/L
67-66-3	Chloroform	10.0	U	2.70	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	U	2.00	10.0	ug/L
108-87-2	Methylcyclohexane	10.0	U	1.40	10.0	ug/L
71-43-2	Benzene	10.0	U	1.80	10.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	U	2.50	10.0	ug/L
79-01-6	Trichloroethene	10.0	U	1.70	10.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	U	1.70	10.0	ug/L
75-27-4	Bromodichloromethane	10.0	U	2.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	U	8.70	50.0	ug/L
108-88-3	Toluene	10.0	U	2.20	10.0	ug/L
10061-02-6	t-1,3-Dichloropropene	10.0	U	1.80	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	U	1.70	10.0	ug/L

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-2	SDG No.:	M1785
Lab Sample ID:	M1785-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021579.D	10		03/29/21 16:02	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	10.0	U	2.40	10.0	ug/L
591-78-6	2-Hexanone	50.0	U	9.20	50.0	ug/L
124-48-1	Dibromochloromethane	10.0	U	1.80	10.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	U	1.60	10.0	ug/L
127-18-4	Tetrachloroethene	10.0	U	1.70	10.0	ug/L
108-90-7	Chlorobenzene	10.0	U	1.70	10.0	ug/L
100-41-4	Ethyl Benzene	57.2		1.80	10.0	ug/L
1330-20-7	Total Xylenes	62.8		5.10	30.0	ug/L
100-42-5	Styrene	10.0	U	1.60	10.0	ug/L
75-25-2	Bromoform	10.0	U	1.90	10.0	ug/L
98-82-8	Isopropylbenzene	190		2.30	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	U	2.90	10.0	ug/L
103-65-1	n-propylbenzene	320		2.40	10.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	37.0		2.50	10.0	ug/L
98-06-6	tert-Butylbenzene	22.5		2.60	10.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	1200		2.00	10.0	ug/L
135-98-8	sec-Butylbenzene	88.7		2.30	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	U	1.90	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	U	2.00	10.0	ug/L
104-51-8	n-Butylbenzene	50.7		1.90	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	U	1.90	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	10.0	U	4.70	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	U	3.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	10.0	U	3.50	10.0	ug/L
123-91-1	1,4-Dioxane	1000	U	69.8	1000	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		78 - 117	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	51.1		92 - 112	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	59.1		83 - 123	118%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	59200	5.629			
540-36-3	1,4-Difluorobenzene	110000	6.829			

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-2	SDG No.:	M1785
Lab Sample ID:	M1785-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021579.D	10		03/29/21 16:02	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
3114-55-4	Chlorobenzene-d5	115000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	57700	12.059			
TENTATIVE IDENTIFIED COMPOUNDS						
179601-23-1	m/p-Xylenes	62.8	J		10.3	ug/L
000611-14-3	Benzene, 1-ethyl-2-methyl-	160	J		11.4	ug/L
99-87-6	p-Isopropyltoluene	15.6	J		12.0	ug/L
000526-73-8	Benzene, 1,2,3-trimethyl-	440	J		12.1	ug/L
000611-15-4	Benzene, 1-ethenyl-2-methyl-	400	J		12.3	ug/L
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	64.7	J		12.6	ug/L
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	200	J		12.7	ug/L
000768-49-0	Benzene, (2-methyl-1-propenyl)-	210	J		12.7	ug/L
020836-11-7	2,2-Dimethylindene, 2,3-dihydro-	57.5	J		12.9	ug/L
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	100	J		13.0	ug/L
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	120	J		13.0	ug/L
001560-06-1	Benzene, 2-butenyl-	130	J		13.3	ug/L
91-20-3	Naphthalene	42.0	J		13.8	ug/L

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-2

Quant Time: Mar 30 03:29:08 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

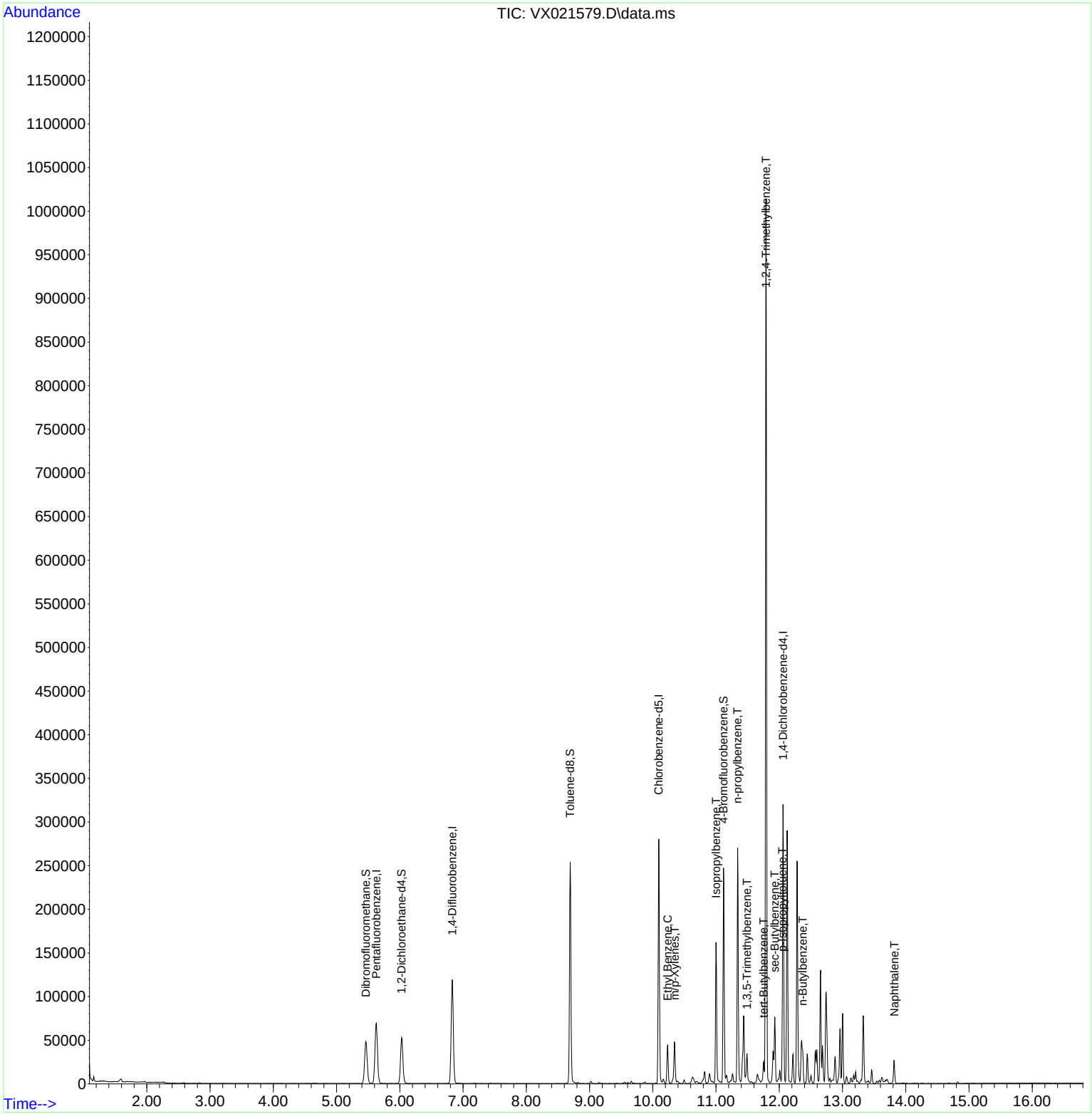
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	59245	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.829	114	110177	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.094	117	115434	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	57707	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.029	65	51735	52.48	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.96%			
35) Dibromofluoromethane	5.464	113	39601	50.60	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.20%			
50) Toluene-d8	8.694	98	142625	51.14	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.28%			
62) 4-Bromofluorobenzene	11.118	95	64038	59.06	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 118.12%			
Target Compounds						Qvalue
67) Ethyl Benzene	10.236	91	24185	5.72	ug/l	98
68) m/p-Xylenes	10.347	106	9459	6.28	ug/l	97
73) Isopropylbenzene	11.000	105	75339	18.58	ug/l	100
78) n-propylbenzene	11.342	91	154000	32.16	ug/l	98
80) 1,3,5-Trimethylbenzene	11.489	105	12821	3.70	ug/l	96
83) tert-Butylbenzene	11.753	119	7593	2.25	ug/l	86
84) 1,2,4-Trimethylbenzene	11.789	105	410364	117.52	ug/l	98
85) sec-Butylbenzene	11.930	105	34495	8.87	ug/l	92
86) p-Isopropyltoluene	12.048	119	5507	1.56	ug/l	87
89) n-Butylbenzene	12.371	91	16461	5.07	ug/l #	75
95) Naphthalene	13.818	128	15789	4.20	ug/l	99

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

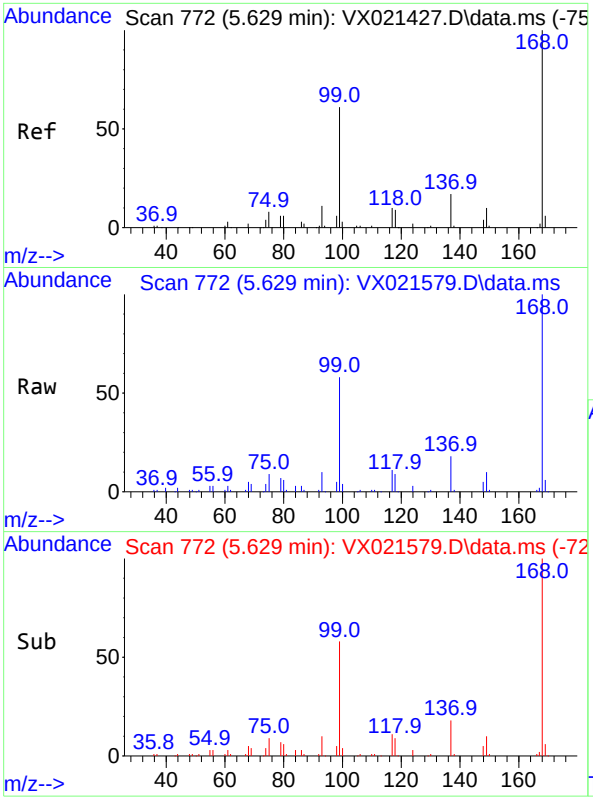
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-2

Quant Time: Mar 30 03:29:08 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration



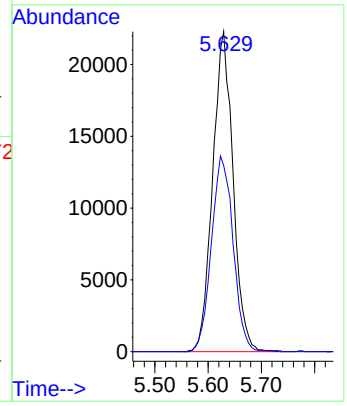
Instrument :
MSVOA_X
ClientSampleId :
MW-2

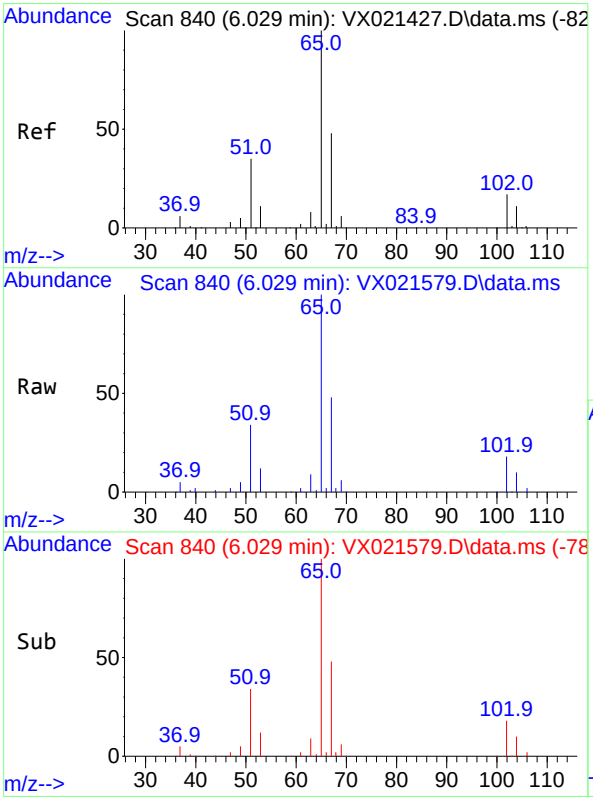


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 772
Delta R.T. 0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:168 Resp: 59245

Ion	Ratio	Lower	Upper
168	100		
99	58.2	45.8	68.6

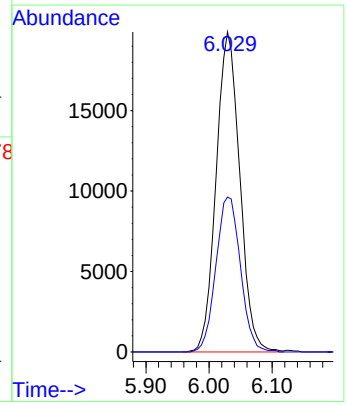




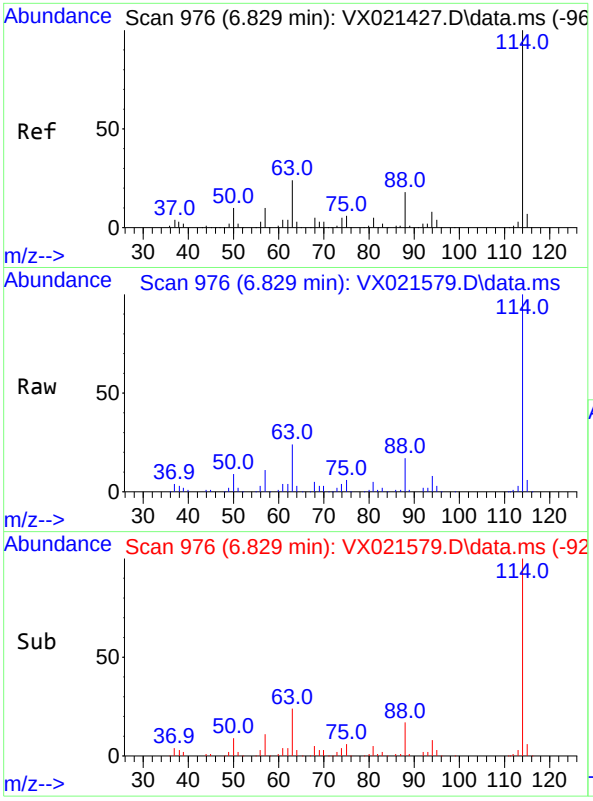
#33
1,2-Dichloroethane-d4
Concen: 52.48 ug/l
RT: 6.029 min Scan# 840
Delta R.T. 0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion: 65 Resp: 51735

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	105.4



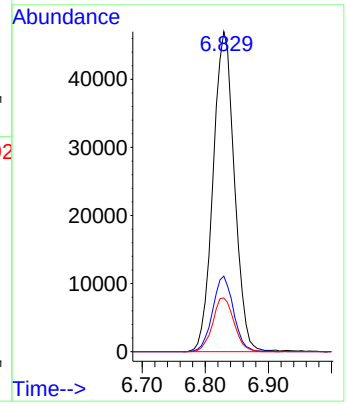
Instrument :
MSVOA_X
ClientSampleId :
MW-2

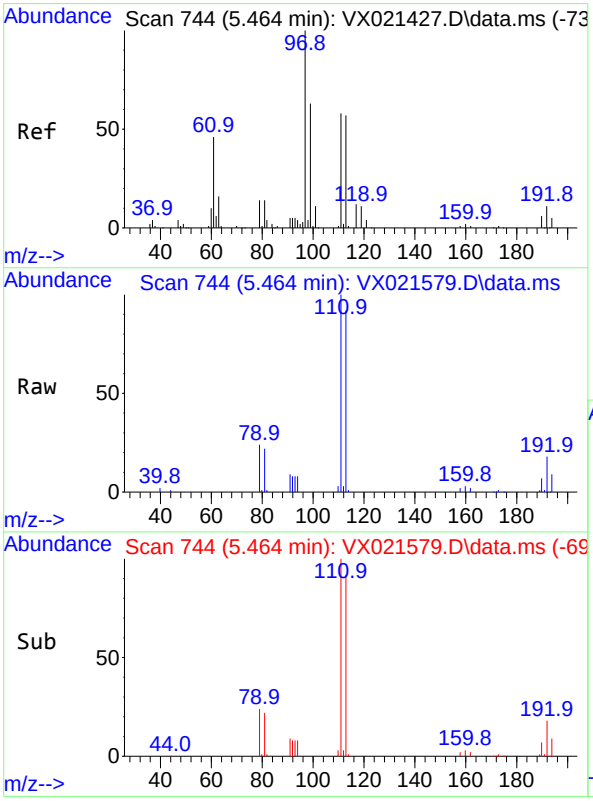


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:114 Resp: 110177

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	40.8
88	16.8	0.0	32.8

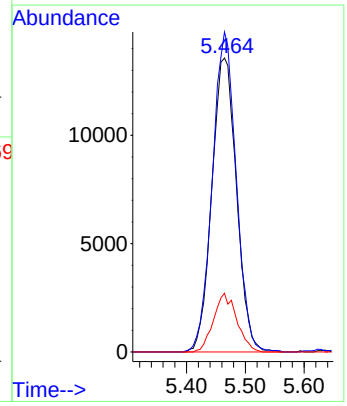




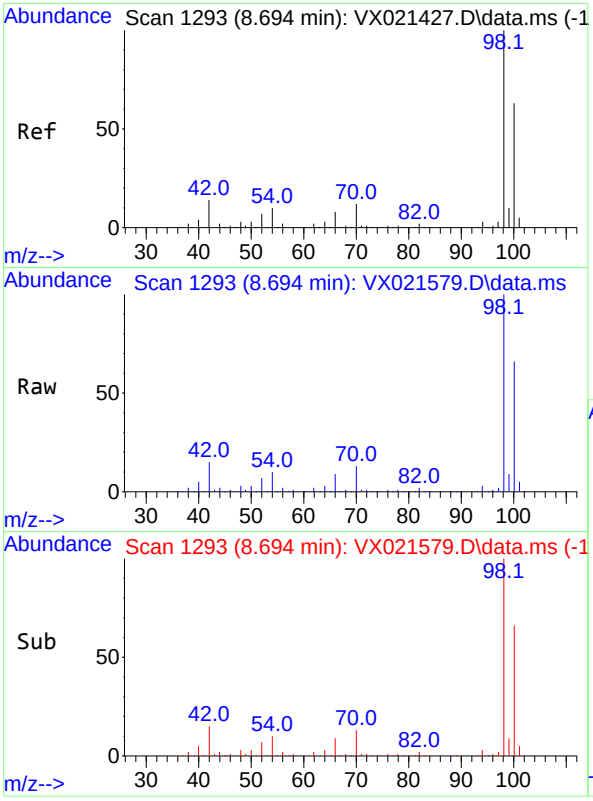
#35
Dibromofluoromethane
Concen: 50.60 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:113 Resp: 39601

Ion	Ratio	Lower	Upper
113	100		
111	105.1	81.9	122.9
192	18.8	16.7	25.1



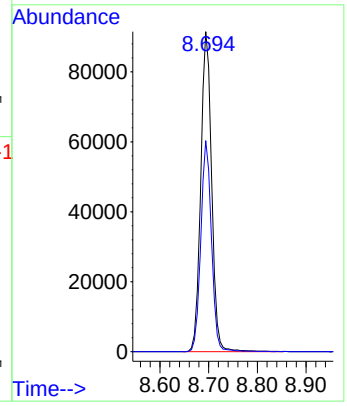
Instrument :
MSVOA_X
ClientSampleId :
MW-2

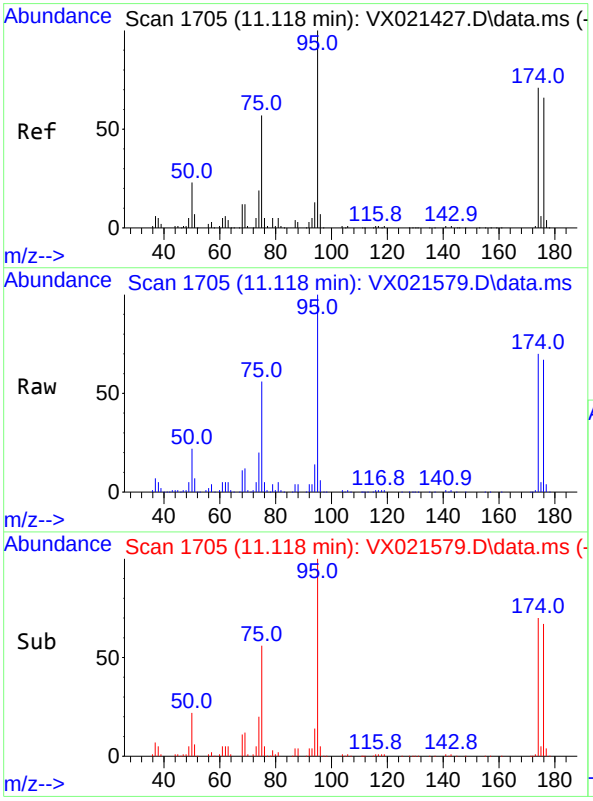


#50
Toluene-d8
Concen: 51.14 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion: 98 Resp: 142625

Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.9	77.9

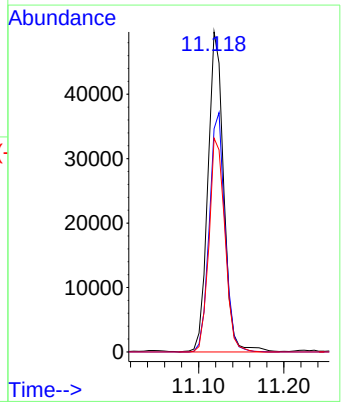




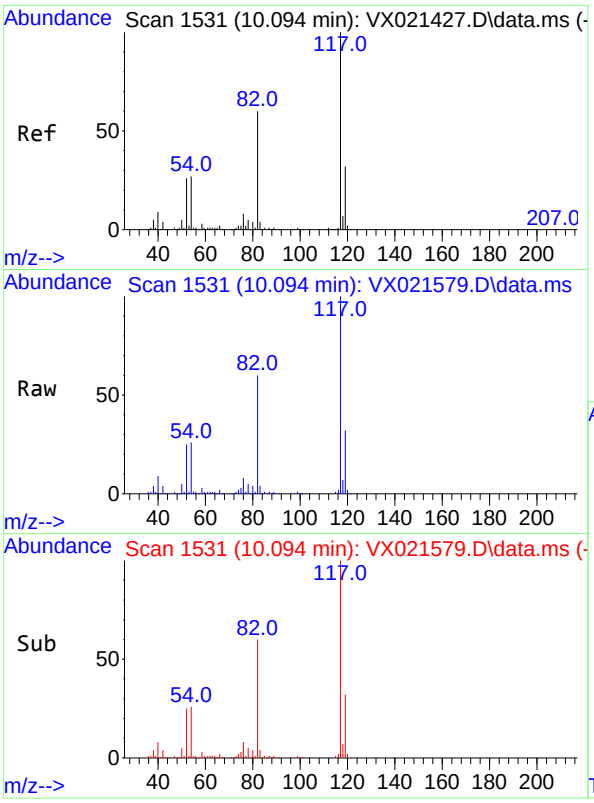
#62
4-Bromofluorobenzene
Concen: 59.06 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. 0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion: 95 Resp: 64038

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	154.6
176	67.0	0.0	155.8



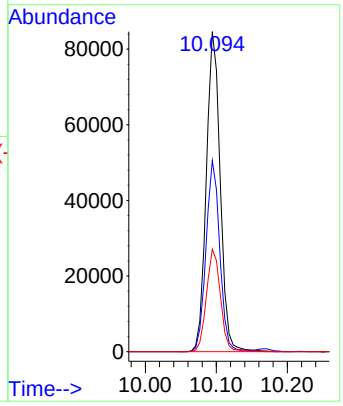
Instrument :
MSVOA_X
ClientSampleId :
MW-2

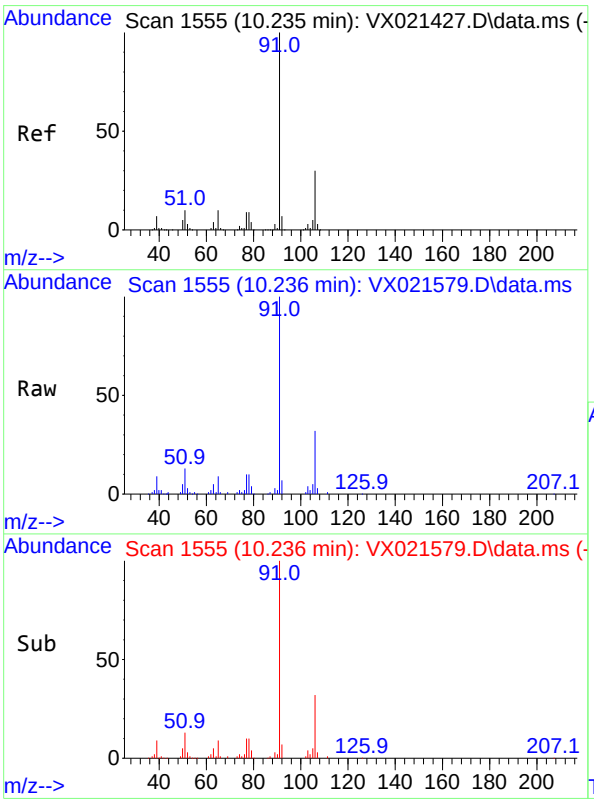


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:117 Resp: 115434

Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.4	71.2
119	32.0	26.6	39.8

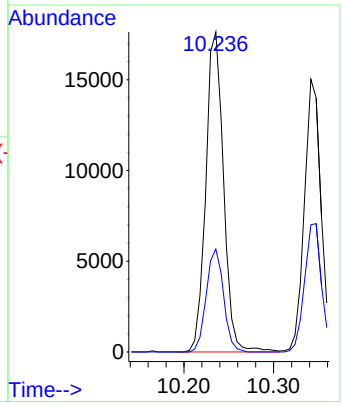




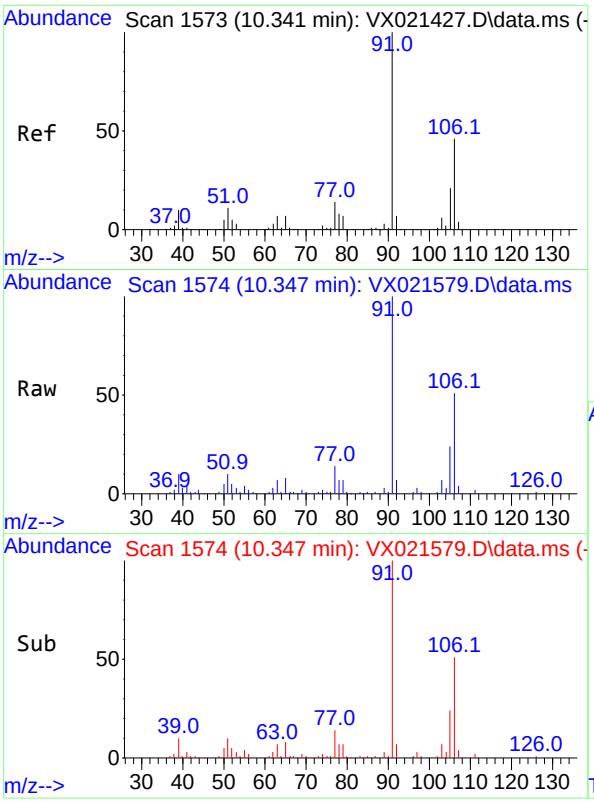
#67
Ethyl Benzene
Concen: 5.72 ug/l
RT: 10.236 min Scan# 1555
Delta R.T. 0.001 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion: 91 Resp: 24185

Ion	Ratio	Lower	Upper
91	100		
106	32.2	24.6	37.0



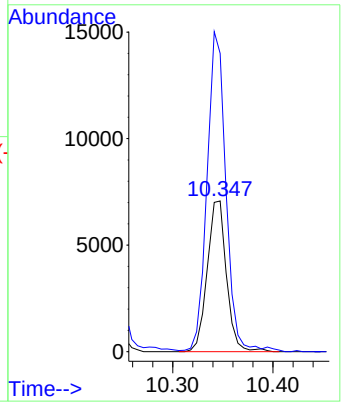
Instrument :
MSVOA_X
ClientSampleId :
MW-2

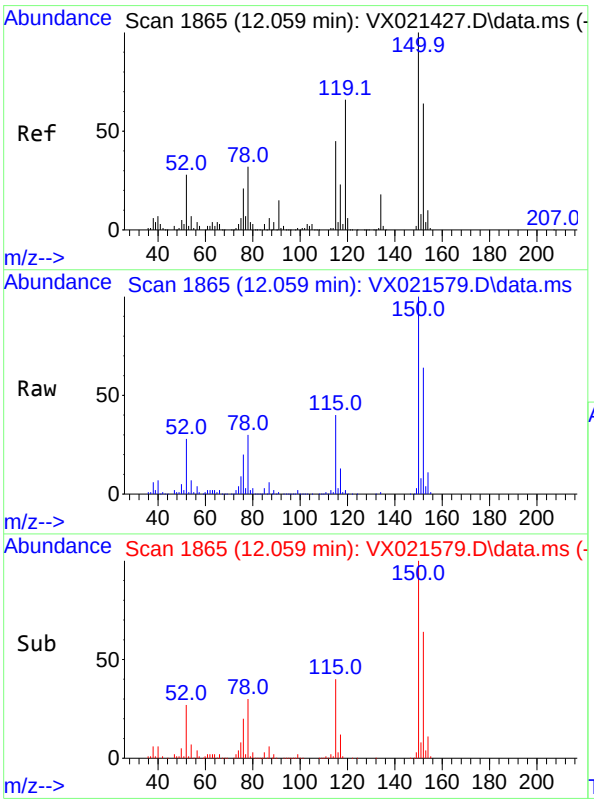


#68
m/p-Xylenes
Concen: 6.28 ug/l
RT: 10.347 min Scan# 1574
Delta R.T. 0.006 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:106 Resp: 9459

Ion	Ratio	Lower	Upper
106	100		
91	208.6	162.8	244.2

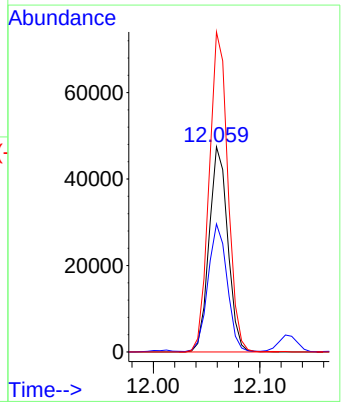




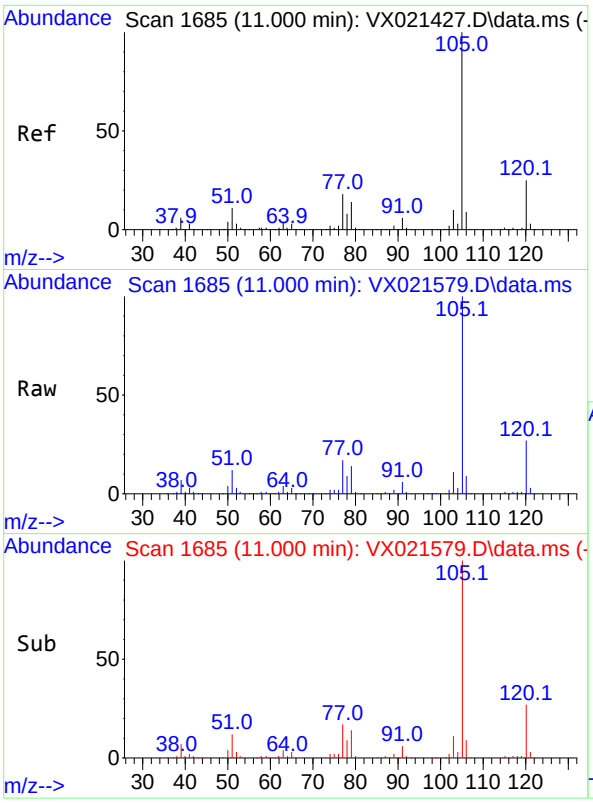
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:152 Resp: 57707

Ion	Ratio	Lower	Upper
152	100		
115	63.7	41.1	123.3
150	156.3	0.0	349.0



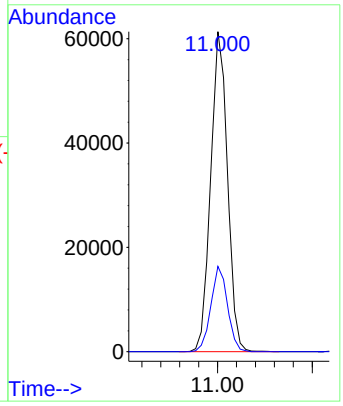
Instrument :
MSVOA_X
ClientSampleId :
MW-2

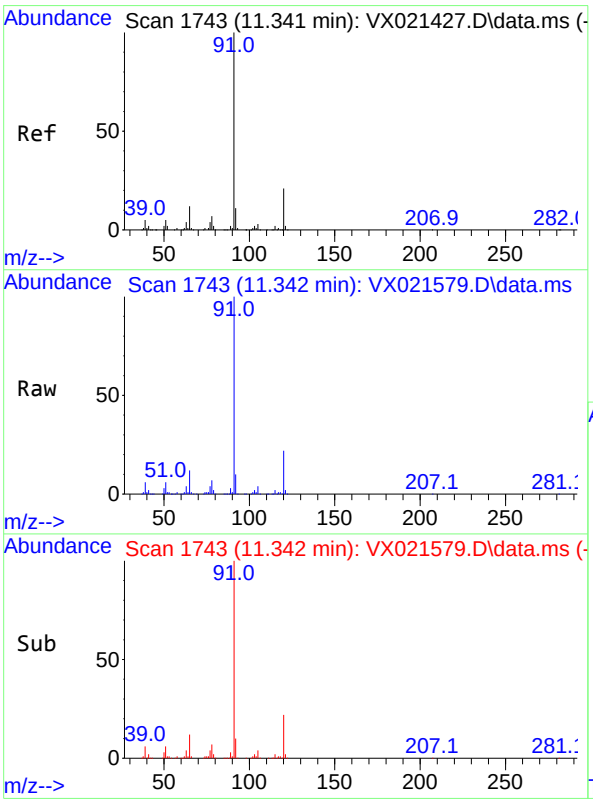


#73
Isopropylbenzene
Concen: 18.58 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:105 Resp: 75339

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6

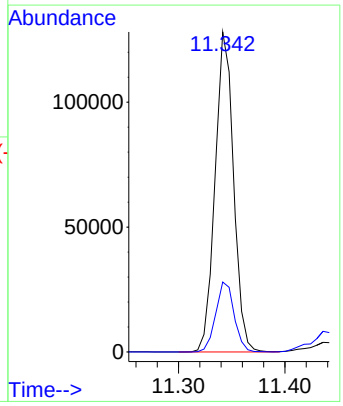




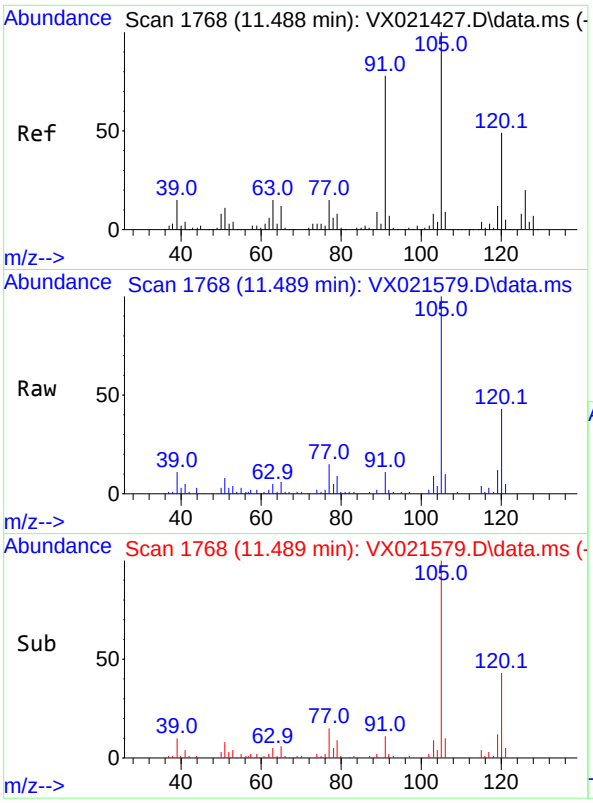
#78
n-propylbenzene
Concen: 32.16 ug/l
RT: 11.342 min Scan# 1743
Delta R.T. 0.001 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion: 91 Resp: 154000

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.5	34.5



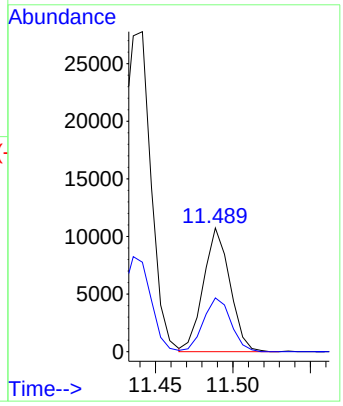
Instrument :
MSVOA_X
ClientSampleId :
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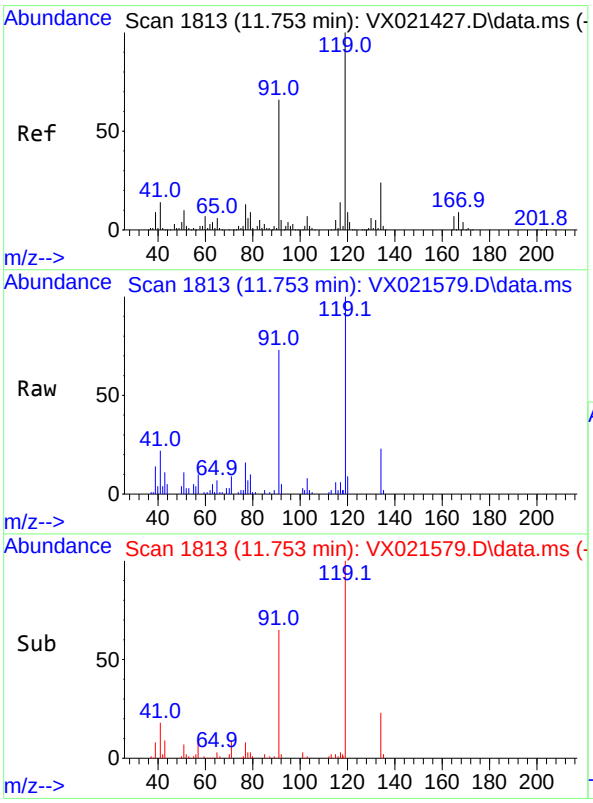


#80
1,3,5-Trimethylbenzene
Concen: 3.70 ug/l
RT: 11.489 min Scan# 1768
Delta R.T. 0.001 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:105 Resp: 12821

Ion	Ratio	Lower	Upper
105	100		
120	44.8	23.8	71.5

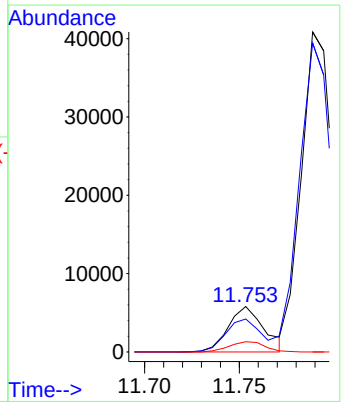




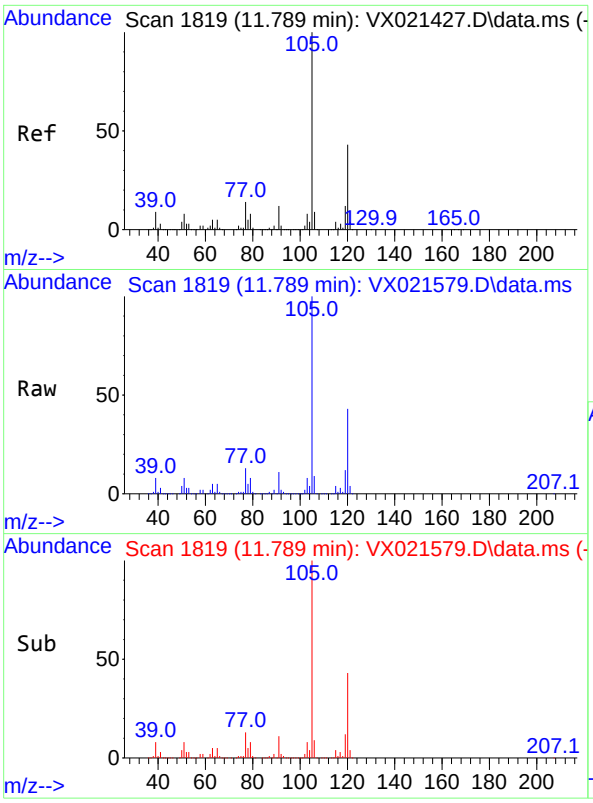
#83
tert-Butylbenzene
Concen: 2.25 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:119 Resp: 7593

Ion	Ratio	Lower	Upper
119	100		
91	70.3	27.9	83.7
134	22.4	11.3	33.9



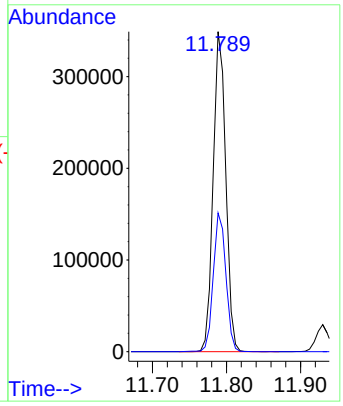
Instrument :
MSVOA_X
ClientSampleId :
MW-2

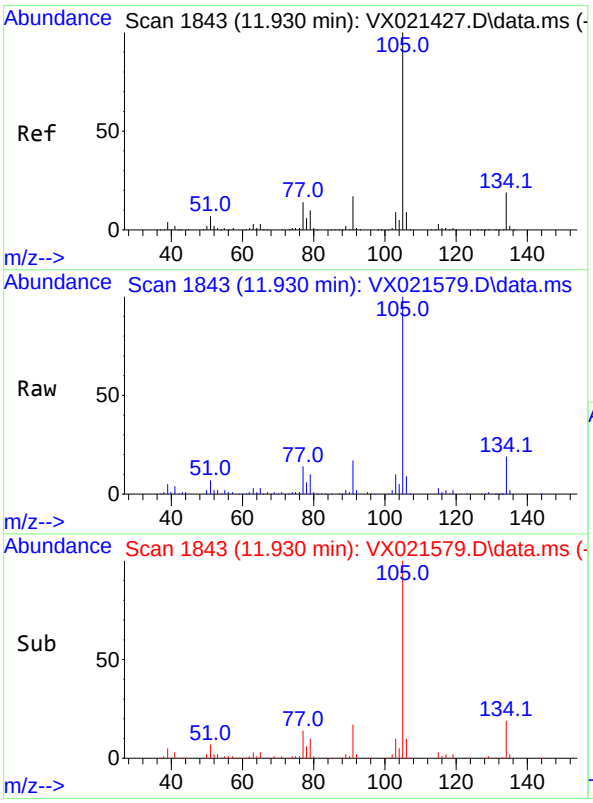


#84
1,2,4-Trimethylbenzene
Concen: 117.52 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:105 Resp: 410364

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.4	67.3

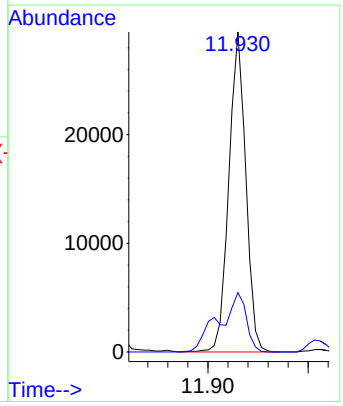




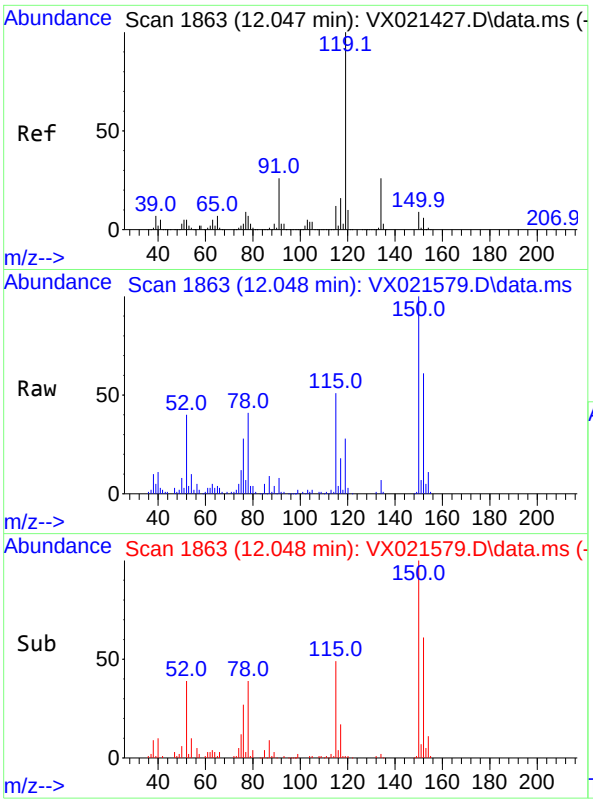
#85
sec-Butylbenzene
Concen: 8.87 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:105 Resp: 34495

Ion	Ratio	Lower	Upper
105	100		
134	16.4	10.0	29.8



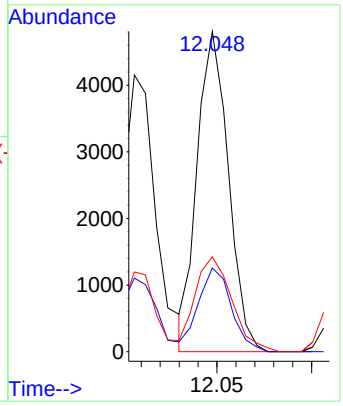
Instrument :
MSVOA_X
ClientSampleId :
MW-2

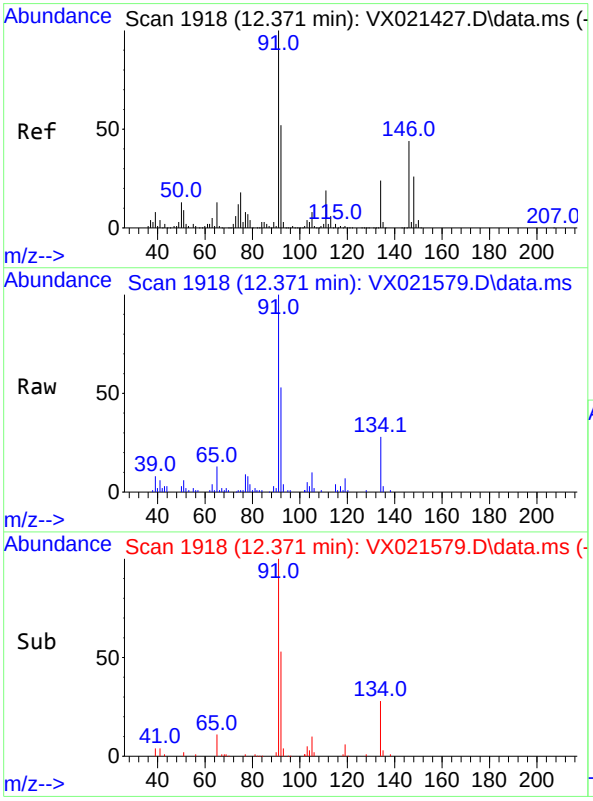


#86
p-Isopropyltoluene
Concen: 1.56 ug/l
RT: 12.048 min Scan# 1863
Delta R.T. 0.001 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:119 Resp: 5507

Ion	Ratio	Lower	Upper
119	100		
134	27.6	12.9	38.7
91	34.8	11.7	35.0

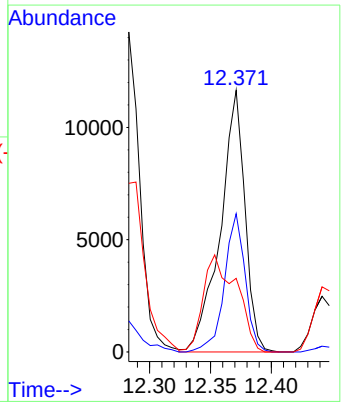




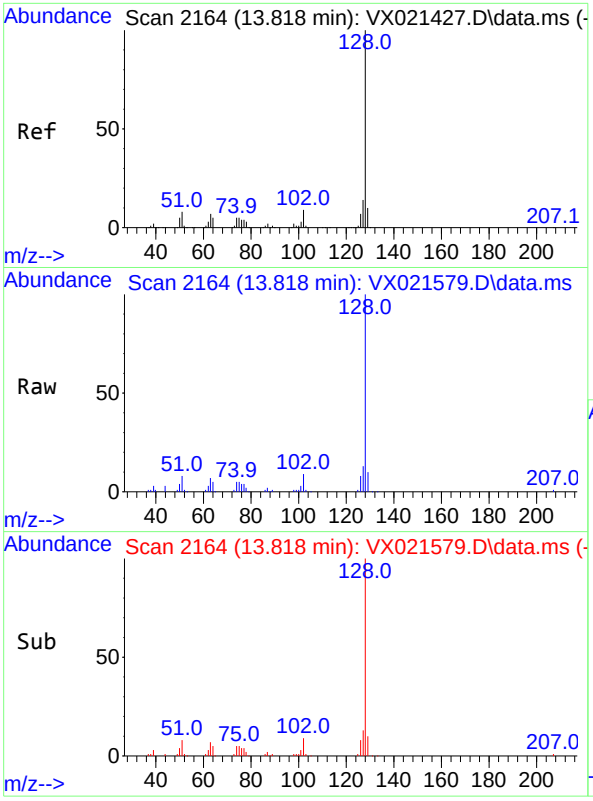
#89
n-Butylbenzene
Concen: 5.07 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion: 91 Resp: 16461

Ion	Ratio	Lower	Upper
91	100		
92	44.3	27.4	82.0
134	50.0	13.2	39.5#



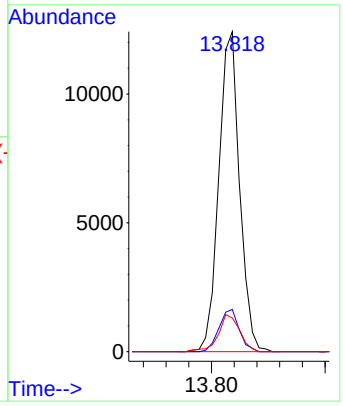
Instrument :
MSVOA_X
ClientSampleId :
MW-2



#95
Naphthalene
Concen: 4.20 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021579.D
Acq: 29 Mar 2021 16:02

Tgt Ion:128 Resp: 15789

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.9	8.8	13.2



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-2

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

Signal : TIC: VX021579.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.464	732	744	756	rBV	48054	137121	11.45%	2.199%
2	5.629	761	772	783	rBV	68992	191604	16.00%	3.072%
3	6.029	829	840	852	rBV	52186	137059	11.45%	2.198%
4	6.829	966	976	989	rBV	118792	278954	23.30%	4.473%
5	8.694	1282	1293	1310	rBV	253581	396842	33.14%	6.363%
6	10.094	1525	1531	1539	rBV	279923	376562	31.45%	6.038%
7	10.236	1548	1555	1560	rBV	44304	60536	5.06%	0.971%
8	10.341	1564	1573	1579	rBV	47405	72157	6.03%	1.157%
9	10.630	1614	1622	1629	rBV5	7197	18487	1.54%	0.296%
10	10.818	1643	1654	1659	rVB3	13143	24386	2.04%	0.391%
11	10.894	1662	1667	1675	rBV3	10320	18733	1.56%	0.300%
12	11.000	1680	1685	1694	rBV	160969	201343	16.82%	3.229%
13	11.118	1700	1705	1711	rBV	245963	314623	26.28%	5.045%
14	11.342	1738	1743	1751	rBV	268627	324162	27.07%	5.198%
15	11.436	1751	1759	1763	rVV	76422	127358	10.64%	2.042%
16	11.489	1763	1768	1777	rVB	33353	49202	4.11%	0.789%
17	11.653	1785	1796	1801	rBV7	10175	20966	1.75%	0.336%
18	11.753	1805	1813	1815	rVV	23551	34973	2.92%	0.561%
19	11.789	1815	1819	1829	rVB	1012548	1197354	100.00%	19.199%
20	11.900	1829	1838	1840	rBV	35928	49163	4.11%	0.788%
21	11.930	1840	1843	1848	rVB	74404	87116	7.28%	1.397%
22	12.006	1853	1856	1860	rVV	13465	17488	1.46%	0.280%
23	12.059	1860	1865	1871	rVV	318479	399750	33.39%	6.410%
24	12.124	1871	1876	1882	rVV	288395	348516	29.11%	5.588%
25	12.218	1886	1892	1897	rVB	32861	42595	3.56%	0.683%
26	12.283	1897	1903	1910	rBV	254197	321300	26.83%	5.152%
27	12.353	1910	1915	1923	rVB2	49029	100336	8.38%	1.609%
28	12.442	1925	1930	1936	rBV	33451	42990	3.59%	0.689%
29	12.571	1946	1952	1954	rBV	37776	51743	4.32%	0.830%
30	12.595	1954	1956	1960	rVV	36407	35439	2.96%	0.568%
31	12.653	1960	1966	1969	rVV	127177	155950	13.02%	2.501%
32	12.683	1969	1971	1976	rVB	41022	44186	3.69%	0.709%
33	12.742	1976	1981	1988	rBV2	101626	170756	14.26%	2.738%
34	12.883	1999	2005	2010	rVB2	30349	46004	3.84%	0.738%
35	12.959	2010	2018	2021	rVV	62348	80677	6.74%	1.294%
36	13.001	2021	2025	2031	rVV	79784	96876	8.09%	1.553%

Sample Results: **VX021579.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-2

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

37	13.330	2076	2081	2087	rVB2	76521	106235	8.87%	1.703%
38	13.459	2099	2103	2110	rVB	15665	20159	1.68%	0.323%
39	13.818	2154	2164	2170	rBV	26347	36702	3.07%	0.589%

Sum of corrected areas: 6236403

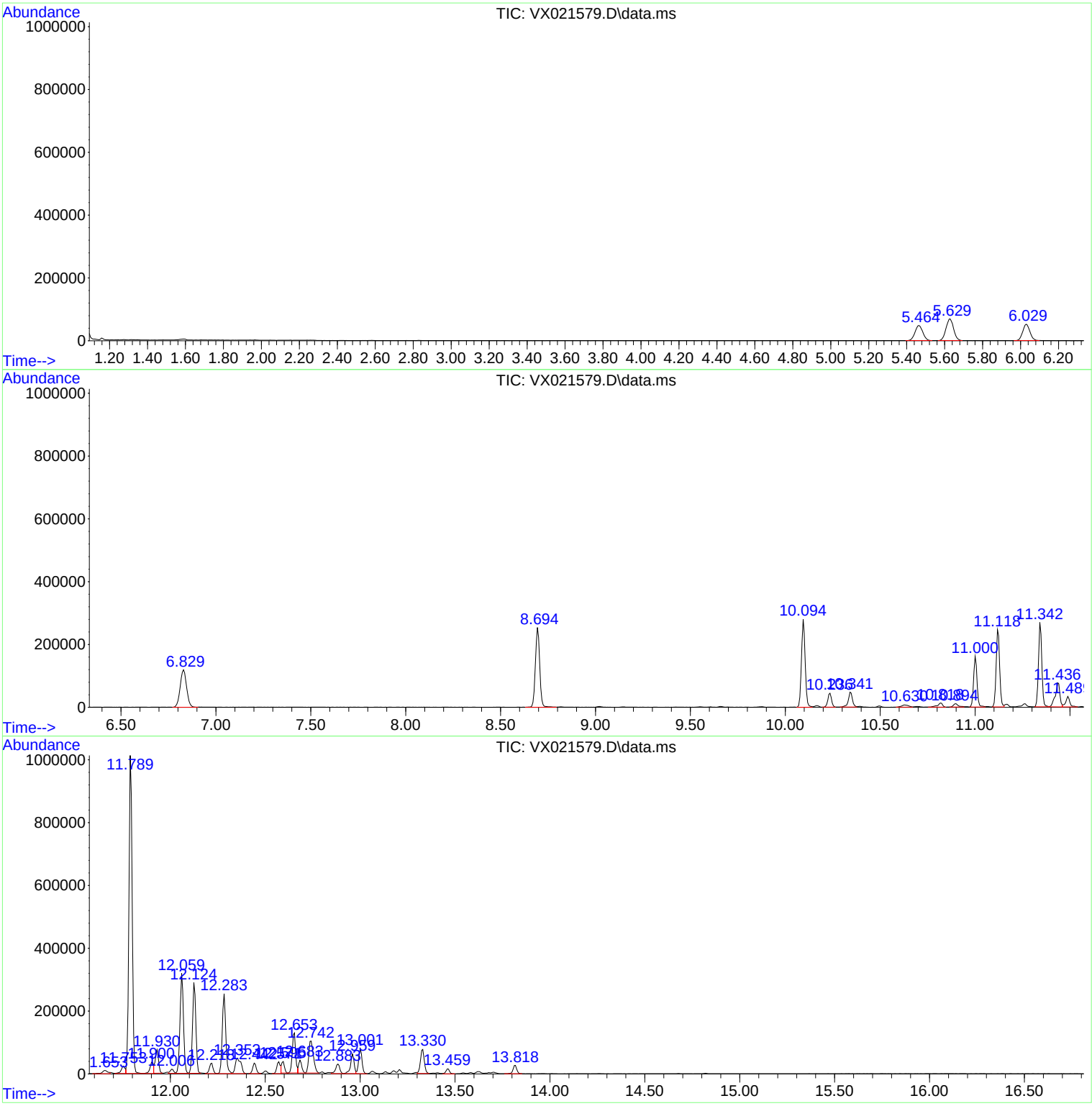
Sample Results: **VX021579.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-2

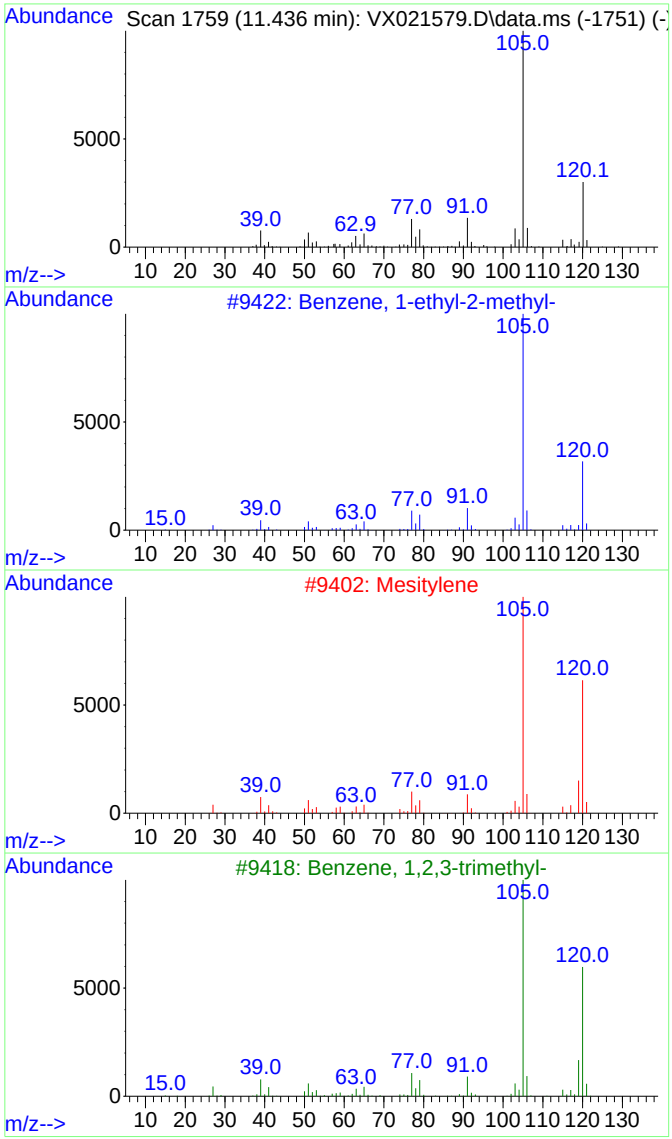
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Quant Title : SW846 8260

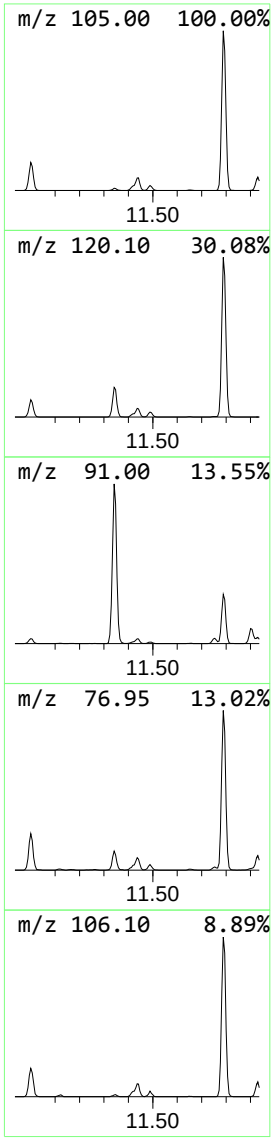
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Benzene, 1-ethyl-2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.436	15.93 ug/l	127358	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Mesitylene	120	C9H12	000108-67-8	91
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-2

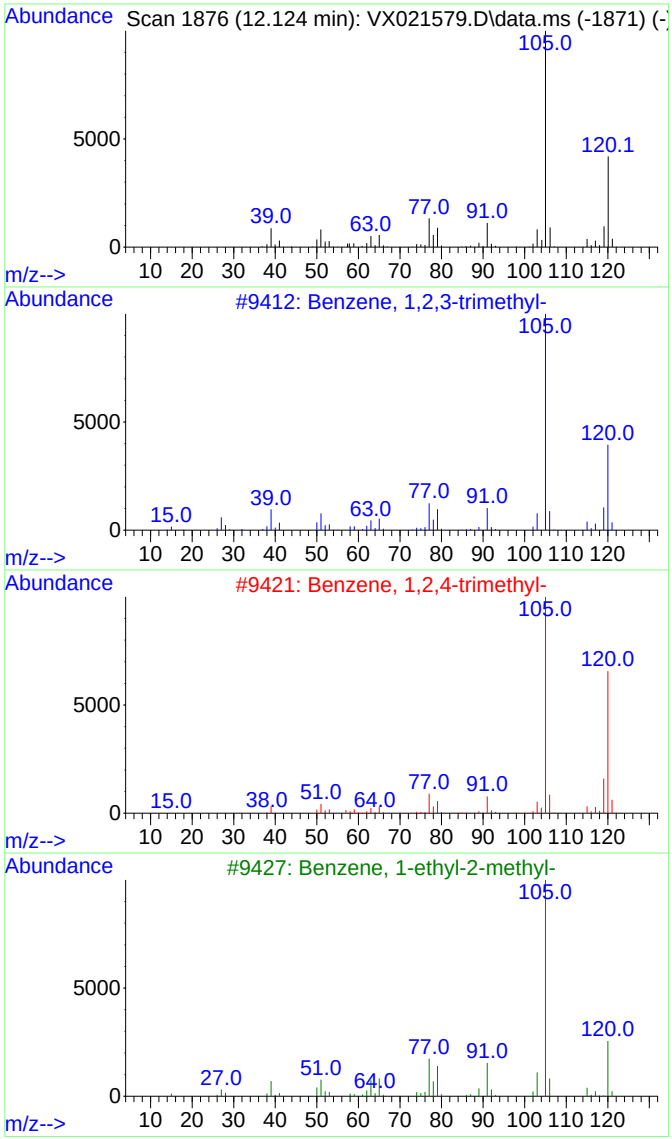
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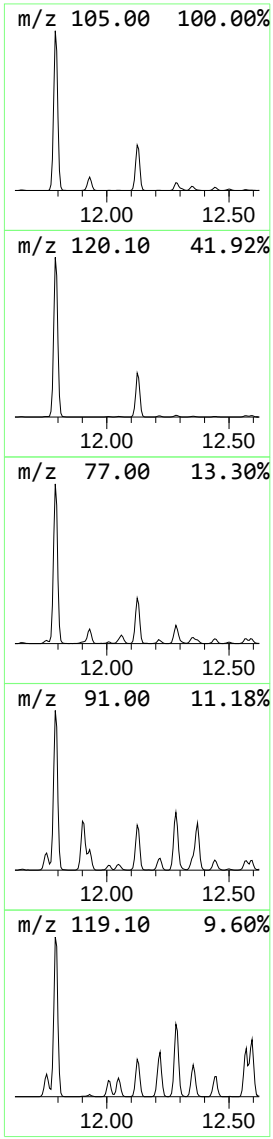
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Benzene, 1,2,3-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.124	43.59 ug/l	348516	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
4	Mesitylene	120	C9H12	000108-67-8	91
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-2

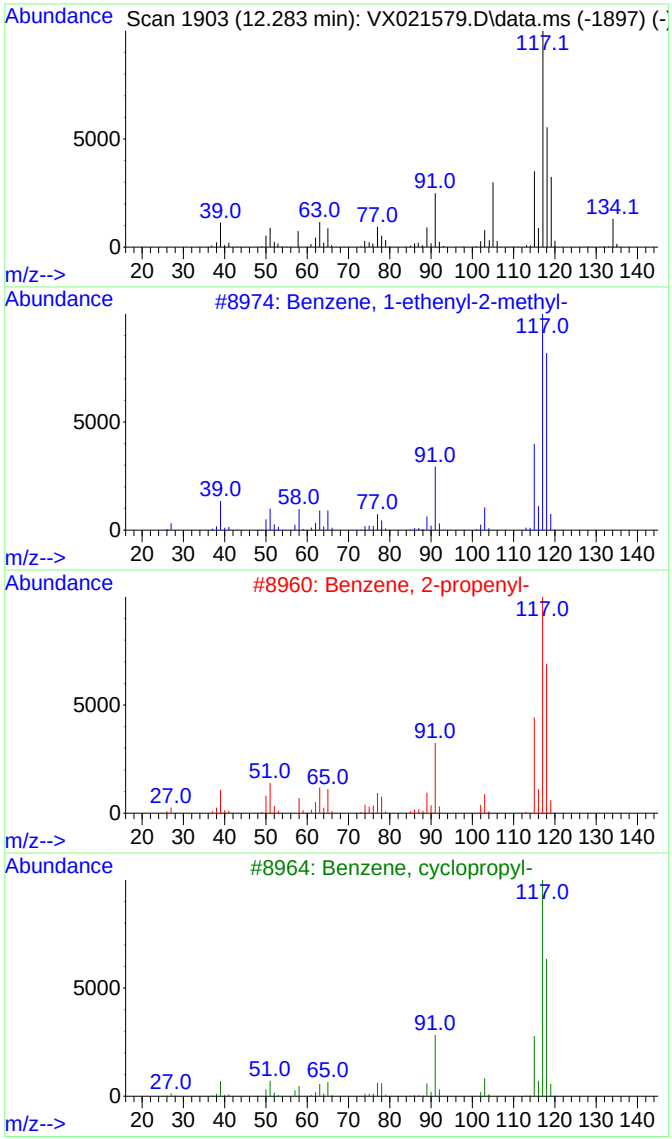
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Quant Title : SW846 8260

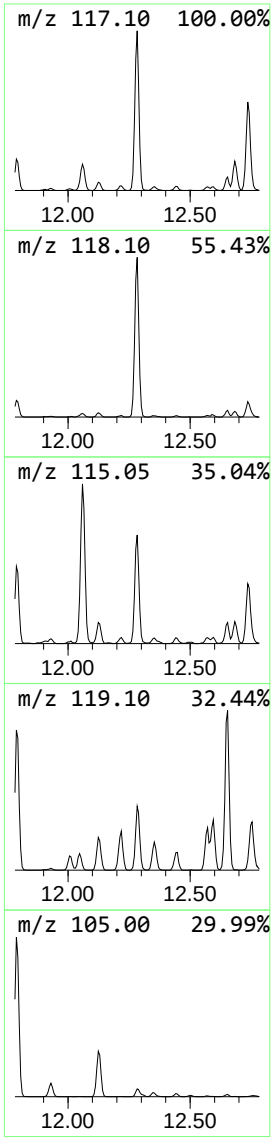
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 1-ethenyl-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.283	40.19 ug/l	321300	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	93
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	70
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	70
4	Indane	118	C9H10	000496-11-7	64
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-2

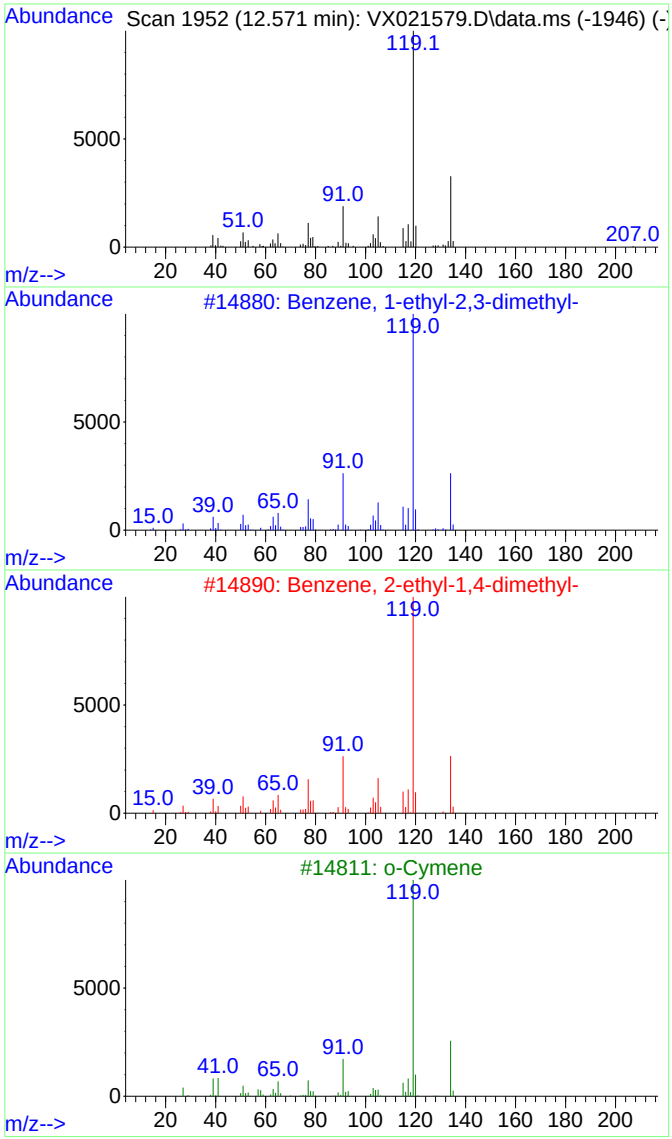
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Quant Title : SW846 8260

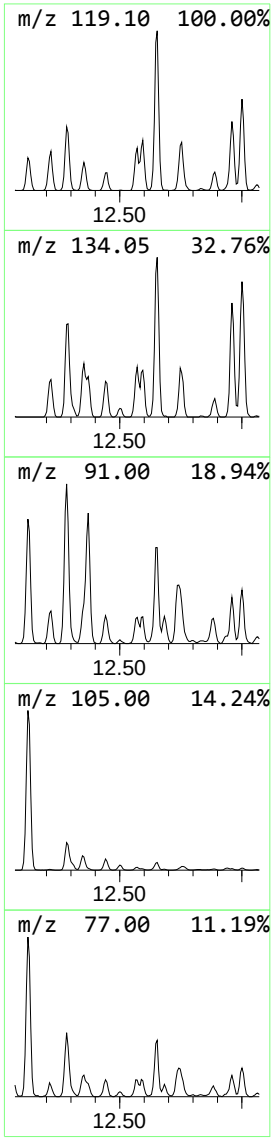
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.571	6.47 ug/l	51743	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	96
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
3	o-Cymene	134	C10H14	000527-84-4	95
4	p-Cymene	134	C10H14	000099-87-6	95
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-2

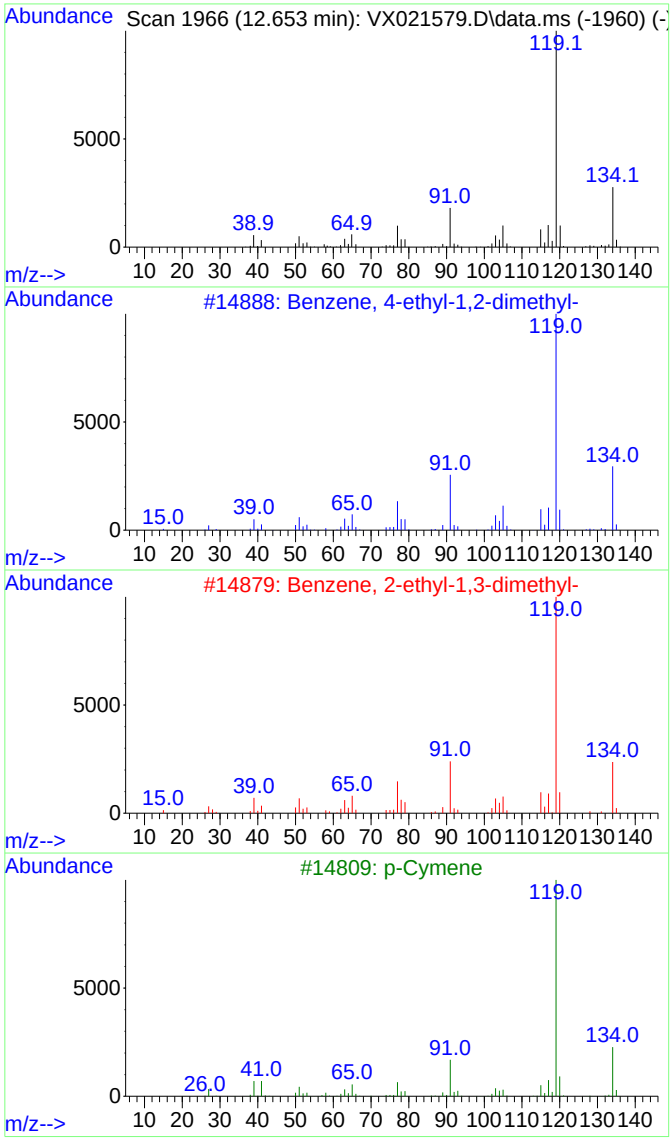
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Quant Title : SW846 8260

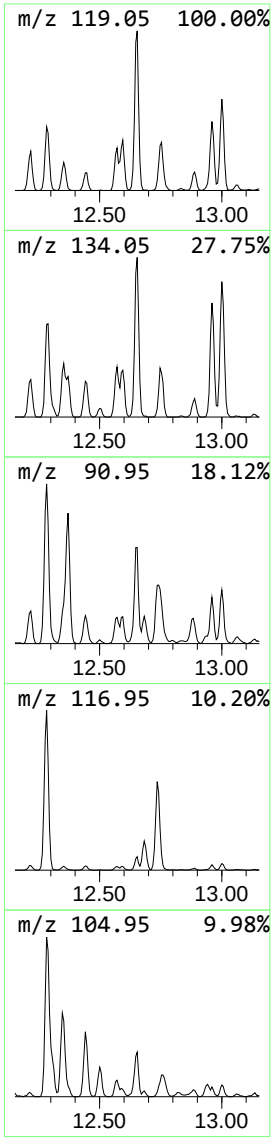
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.653	19.51 ug/l	155950	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
2	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
3	p-Cymene	134	C10H14	000099-87-6	95
4	o-Cymene	134	C10H14	000527-84-4	95
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-2

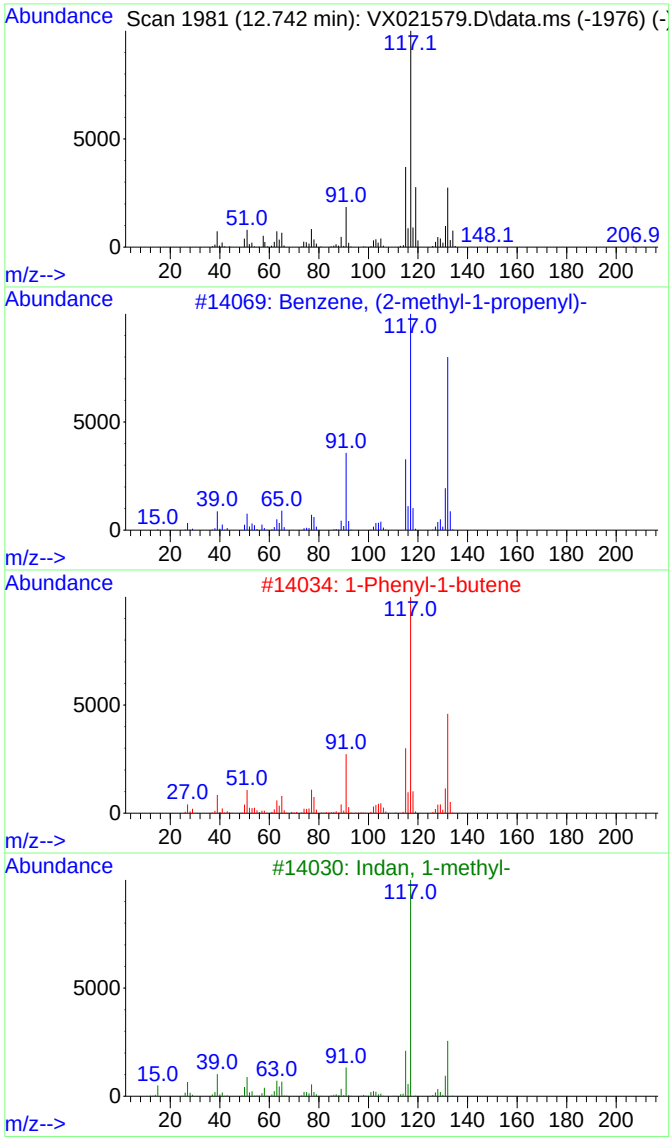
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

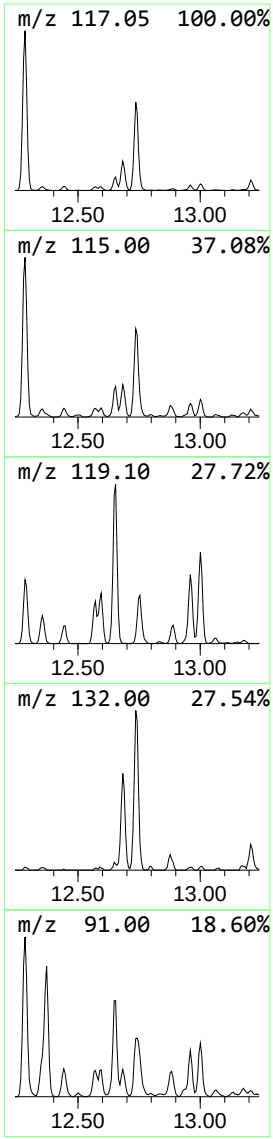
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Benzene, (2-methyl-1-propen... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.742	21.36 ug/l	170756	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	83
2	1-Phenyl-1-butene	132	C10H12	000824-90-8	81
3	Indan, 1-methyl-	132	C10H12	000767-58-8	76
4	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	74
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	70





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-2

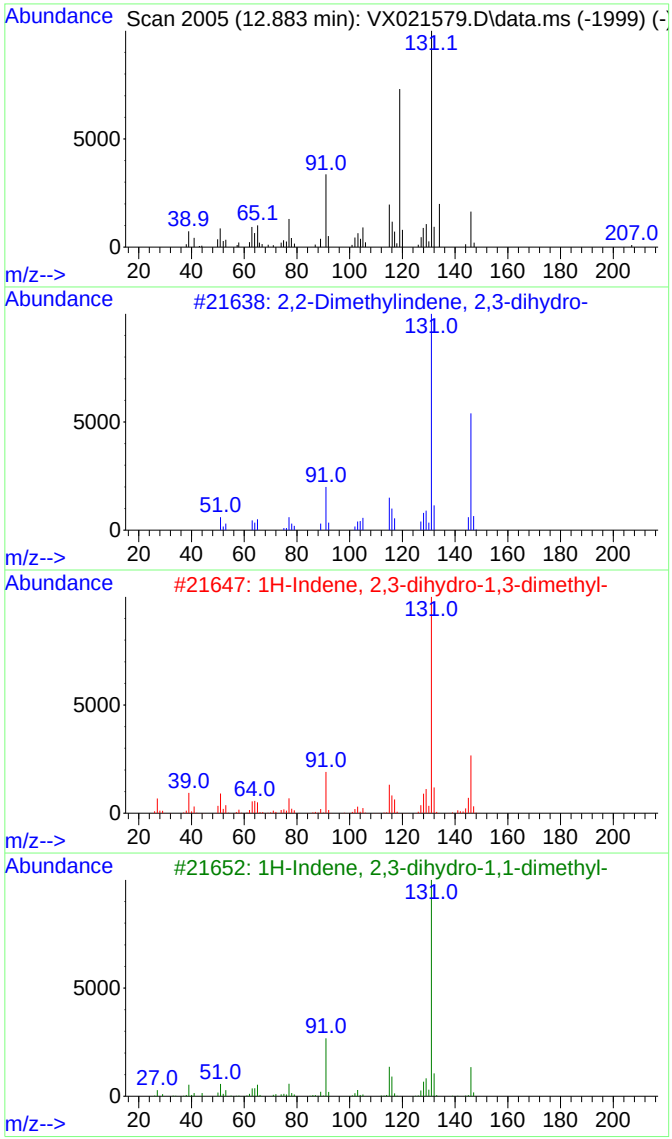
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

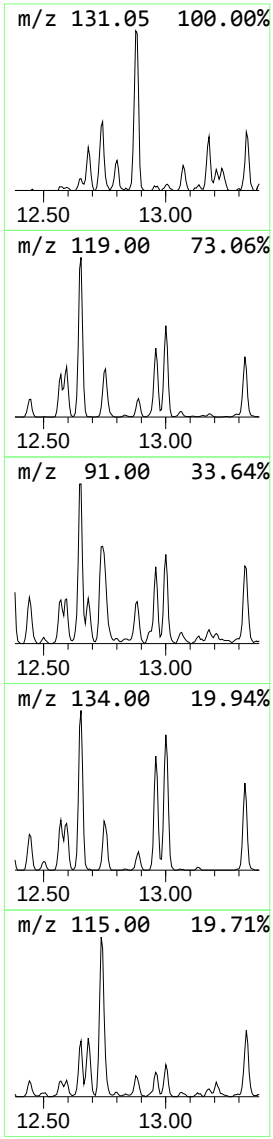
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 2,2-Dimethylindene, 2,3-dih... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.883	5.75 ug/l	46004	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	94
2	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	86
3	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	64
4	Benzene, 1-methyl-3-(1-methyl-2-...	146	C11H14	052161-57-6	58
5	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-2

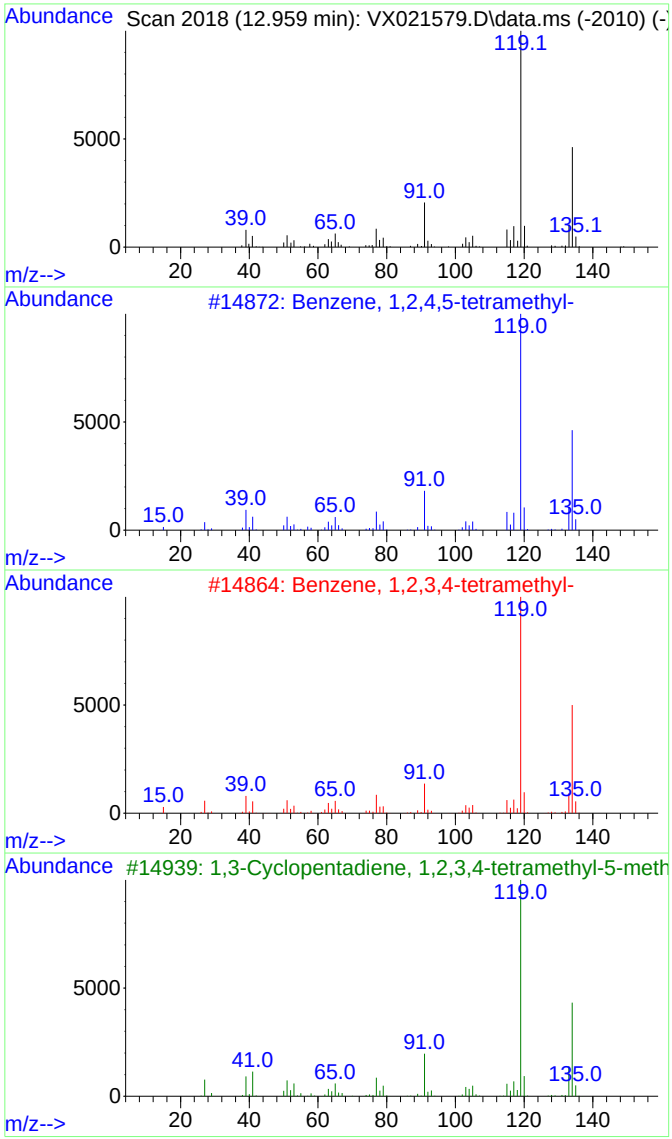
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Quant Title : SW846 8260

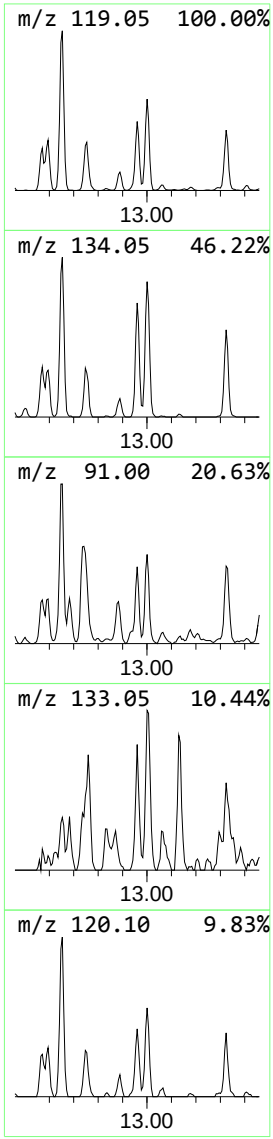
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.959	10.09 ug/l	80677	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	94
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-2

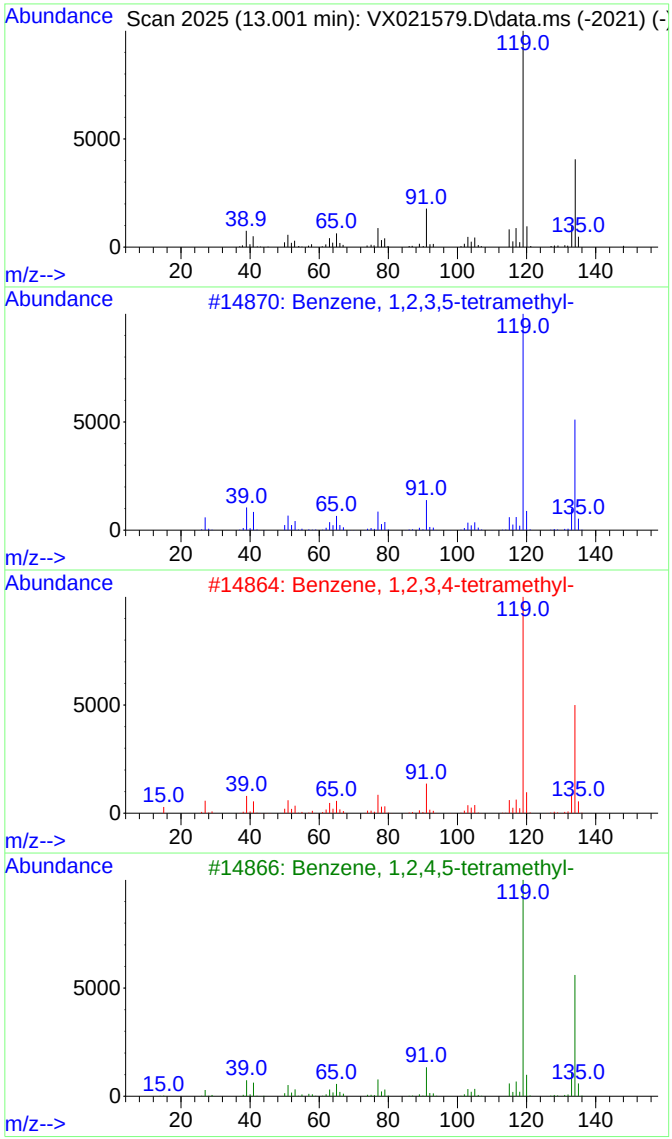
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

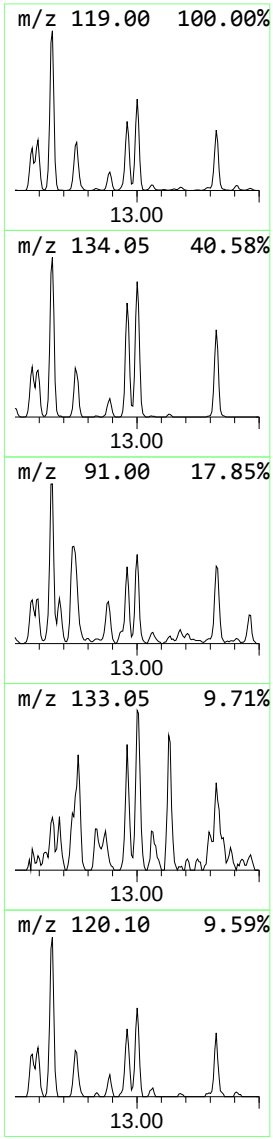
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.001	12.12 ug/l	96876	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

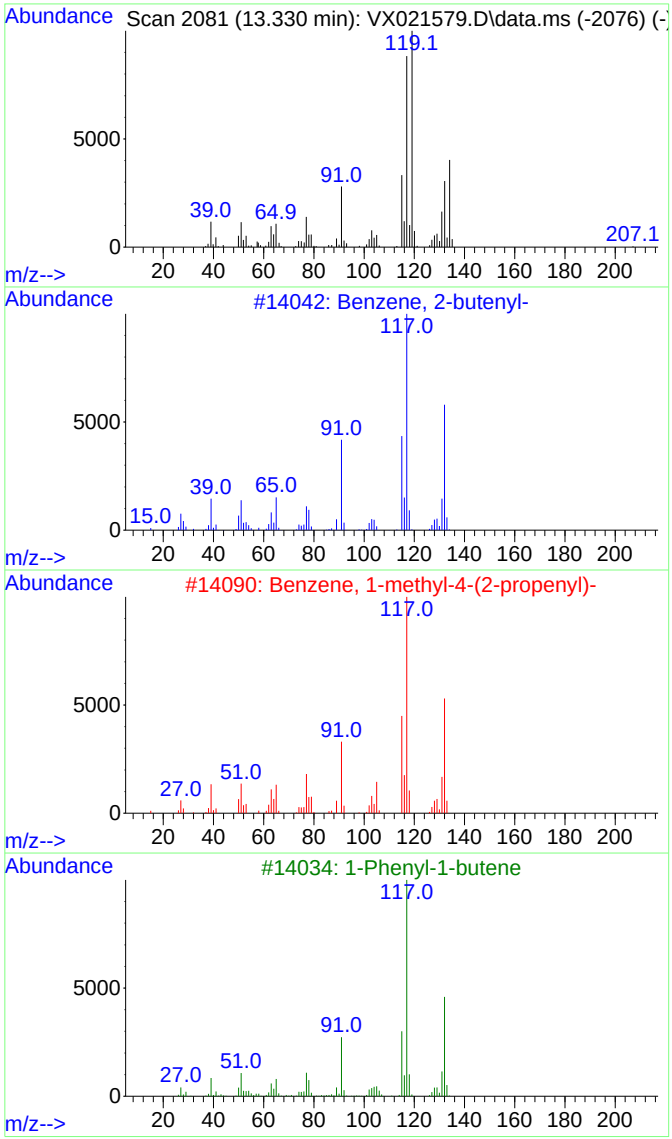
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TIC Integration Parameters: LSCINT.P

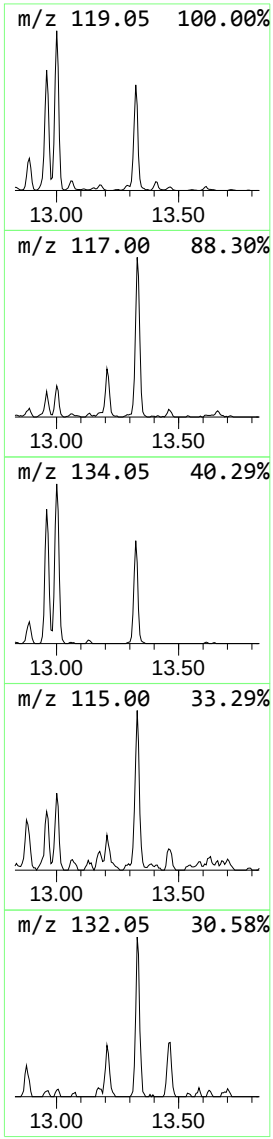
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Peak Number 10 Benzene, 2-butenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.330	13.29 ug/l	106235	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-butenyl-	132	C10H12	001560-06-1	89
2	Benzene, 1-methyl-4-(2-propenyl)-	132	C10H12	003333-13-9	70
3	1-Phenyl-1-butene	132	C10H12	000824-90-8	55
4	3-Phenylbut-1-ene	132	C10H12	000934-10-1	55
5	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	55





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021579.D
Acq On : 29 Mar 2021 16:02
Operator : JC/MD
Sample : M1785-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzene, 1-ethy...	11.436	15.9	ug/l	127358	4	12.059	399750	50.0
Benzene, 1,2,3-...	12.124	43.6	ug/l	348516	4	12.059	399750	50.0
Benzene, 1-ethe...	12.283	40.2	ug/l	321300	4	12.059	399750	50.0
Benzene, 1-ethy...	12.571	6.5	ug/l	51743	4	12.059	399750	50.0
Benzene, 4-ethy...	12.653	19.5	ug/l	155950	4	12.059	399750	50.0
Benzene, (2-met...	12.742	21.4	ug/l	170756	4	12.059	399750	50.0
2,2-Dimethylind...	12.883	5.8	ug/l	46004	4	12.059	399750	50.0
Benzene, 1,2,4,...	12.959	10.1	ug/l	80677	4	12.059	399750	50.0
Benzene, 1,2,3,...	13.001	12.1	ug/l	96876	4	12.059	399750	50.0
Benzene, 2-bute...	13.330	13.3	ug/l	106235	4	12.059	399750	50.0

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-3R	SDG No.:	M1785
Lab Sample ID:	M1785-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021580.D	10		03/29/21 16:26	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	10.0	U	2.30	10.0	ug/L
74-87-3	Chloromethane	10.0	U	2.00	10.0	ug/L
75-01-4	Vinyl Chloride	10.0	U	1.90	10.0	ug/L
74-83-9	Bromomethane	50.0	U	8.70	50.0	ug/L
75-00-3	Chloroethane	10.0	U	3.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	U	2.50	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	10.0	U	2.10	10.0	ug/L
75-35-4	1,1-Dichloroethene	10.0	U	2.60	10.0	ug/L
67-64-1	Acetone	50.0	U	16.1	50.0	ug/L
75-15-0	Carbon Disulfide	10.0	U	2.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	U	2.20	10.0	ug/L
79-20-9	Methyl Acetate	10.0	U	4.70	10.0	ug/L
75-09-2	Methylene Chloride	10.0	U	1.80	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	U	1.90	10.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	U	2.10	10.0	ug/L
110-82-7	Cyclohexane	50.0	U	13.0	50.0	ug/L
78-93-3	2-Butanone	50.0	U	9.00	50.0	ug/L
56-23-5	Carbon Tetrachloride	10.0	U	2.70	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	10.0	U	2.20	10.0	ug/L
74-97-5	Bromochloromethane	10.0	U	2.60	10.0	ug/L
67-66-3	Chloroform	10.0	U	2.70	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	U	2.00	10.0	ug/L
108-87-2	Methylcyclohexane	10.6		1.40	10.0	ug/L
71-43-2	Benzene	10.0	U	1.80	10.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	U	2.50	10.0	ug/L
79-01-6	Trichloroethene	10.0	U	1.70	10.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	U	1.70	10.0	ug/L
75-27-4	Bromodichloromethane	10.0	U	2.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	U	8.70	50.0	ug/L
108-88-3	Toluene	10.0	U	2.20	10.0	ug/L
10061-02-6	t-1,3-Dichloropropene	10.0	U	1.80	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	U	1.70	10.0	ug/L

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-3R	SDG No.:	M1785
Lab Sample ID:	M1785-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021580.D	10		03/29/21 16:26	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	10.0	U	2.40	10.0	ug/L
591-78-6	2-Hexanone	50.0	U	9.20	50.0	ug/L
124-48-1	Dibromochloromethane	10.0	U	1.80	10.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	U	1.60	10.0	ug/L
127-18-4	Tetrachloroethene	10.0	U	1.70	10.0	ug/L
108-90-7	Chlorobenzene	10.0	U	1.70	10.0	ug/L
100-41-4	Ethyl Benzene	33.3		1.80	10.0	ug/L
1330-20-7	Total Xylenes	142		5.10	30.0	ug/L
100-42-5	Styrene	10.0	U	1.60	10.0	ug/L
75-25-2	Bromoform	10.0	U	1.90	10.0	ug/L
98-82-8	Isopropylbenzene	150		2.30	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	U	2.90	10.0	ug/L
103-65-1	n-propylbenzene	290		2.40	10.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	77.2		2.50	10.0	ug/L
98-06-6	tert-Butylbenzene	32.9		2.60	10.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	1600	E	2.00	10.0	ug/L
135-98-8	sec-Butylbenzene	140		2.30	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	U	1.90	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	U	2.00	10.0	ug/L
104-51-8	n-Butylbenzene	97.7		1.90	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	U	1.90	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	10.0	U	4.70	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	U	3.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	10.0	U	3.50	10.0	ug/L
123-91-1	1,4-Dioxane	1000	U	69.8	1000	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.9		78 - 117	102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.1		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.8		83 - 123	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	60100	5.623			
540-36-3	1,4-Difluorobenzene	111000	6.829			

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-3R	SDG No.:	M1785
Lab Sample ID:	M1785-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021580.D	10		03/29/21 16:26	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
3114-55-4	Chlorobenzene-d5	110000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	50200	12.065			
TENTATIVE IDENTIFIED COMPOUNDS						
179601-23-1	m/p-Xylenes	130	J		10.3	ug/L
95-47-6	o-Xylene	12.0	J		10.7	ug/L
000591-47-9	Cyclohexene, 4-methyl-	97.5	J		10.8	ug/L
99-87-6	p-Isopropyltoluene	39.7	J		12.0	ug/L
000526-73-8	Benzene, 1,2,3-trimethyl-	400	J		12.1	ug/L
000300-57-2	Benzene, 2-propenyl-	420	J		12.3	ug/L
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	140	J		12.6	ug/L
000527-84-4	o-Cymene	270	J		12.7	ug/L
000768-49-0	Benzene, (2-methyl-1-propenyl)-	250	J		12.7	ug/L
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	98.5	J		13.0	ug/L
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	120	J		13.0	ug/L
000767-99-7	Benzene, (1-methyl-1-propenyl)-, (	160	J		13.3	ug/L
91-20-3	Naphthalene	7.50	J		13.8	ug/L

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-3R

Quant Time: Mar 30 03:29:28 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

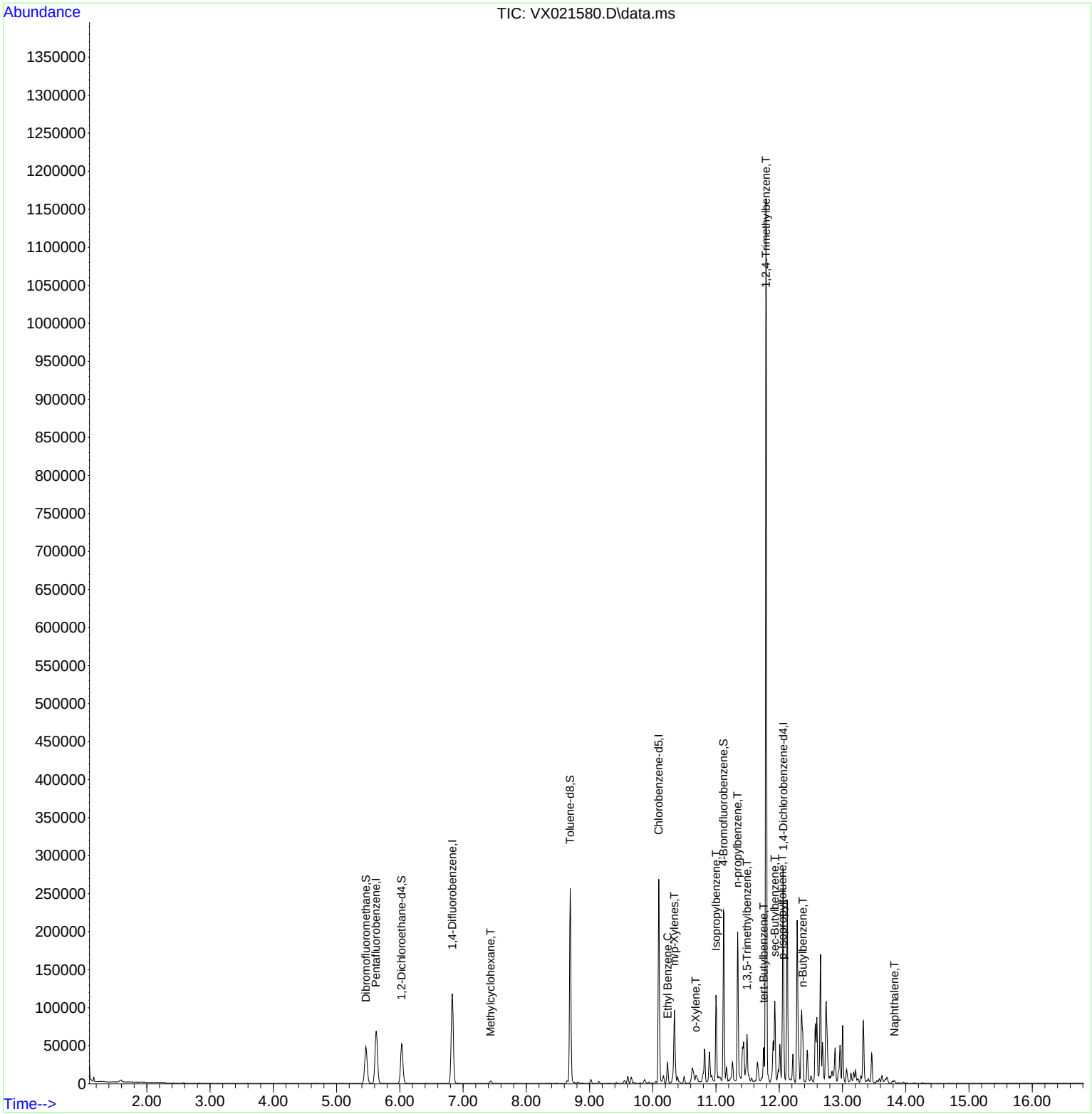
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.623	168	60069	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.829	114	110895	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.094	117	109772	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.065	152	50223	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.029	65	50819	50.85	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.70%			
35) Dibromofluoromethane	5.464	113	39411	50.03	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.06%			
50) Toluene-d8	8.694	98	140546	50.07	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.14%			
62) 4-Bromofluorobenzene	11.118	95	57611	52.79	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.58%			
Target Compounds						Qvalue
39) Methylcyclohexane	7.435	83	1280	1.06	ug/l #	87
67) Ethyl Benzene	10.235	91	13370	3.33	ug/l	95
68) m/p-Xylenes	10.341	106	18714	13.07	ug/l	91
69) o-Xylene	10.677	106	1671	1.20	ug/l	87
73) Isopropylbenzene	11.000	105	54510	15.45	ug/l	98
78) n-propylbenzene	11.341	91	119235	28.61	ug/l	96
80) 1,3,5-Trimethylbenzene	11.488	105	23261	7.72	ug/l	96
83) tert-Butylbenzene	11.753	119	9665	3.29	ug/l	87
84) 1,2,4-Trimethylbenzene	11.788	105	476928	156.93	ug/l	98
85) sec-Butylbenzene	11.930	105	48871	14.43	ug/l	100
86) p-Isopropyltoluene	12.047	119	12246	3.97	ug/l	93
89) n-Butylbenzene	12.371	91	27595	9.77	ug/l #	72
95) Naphthalene	13.818	128	2459	0.75	ug/l	97

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

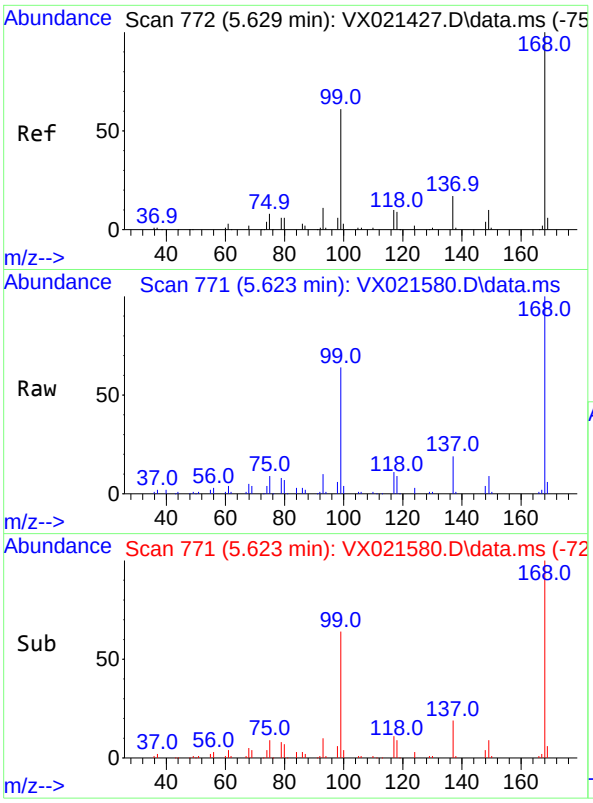
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-3R

Quant Time: Mar 30 03:29:28 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration



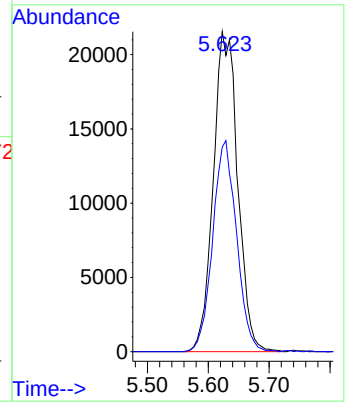
Instrument :
MSVOA_X
ClientSampleId :
MW-3R

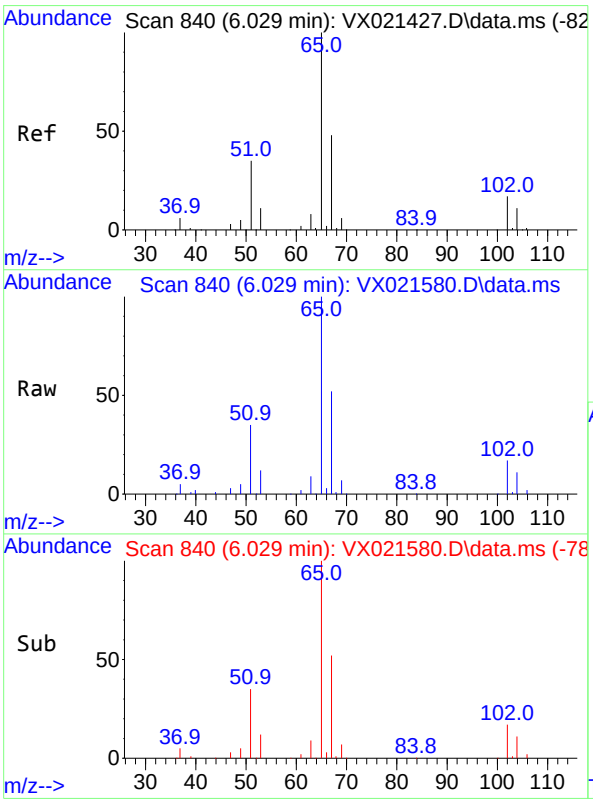


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 771
Delta R.T. -0.006 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:168 Resp: 60069

Ion	Ratio	Lower	Upper
168	100		
99	64.0	45.8	68.6

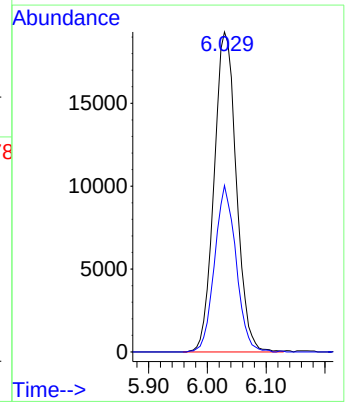




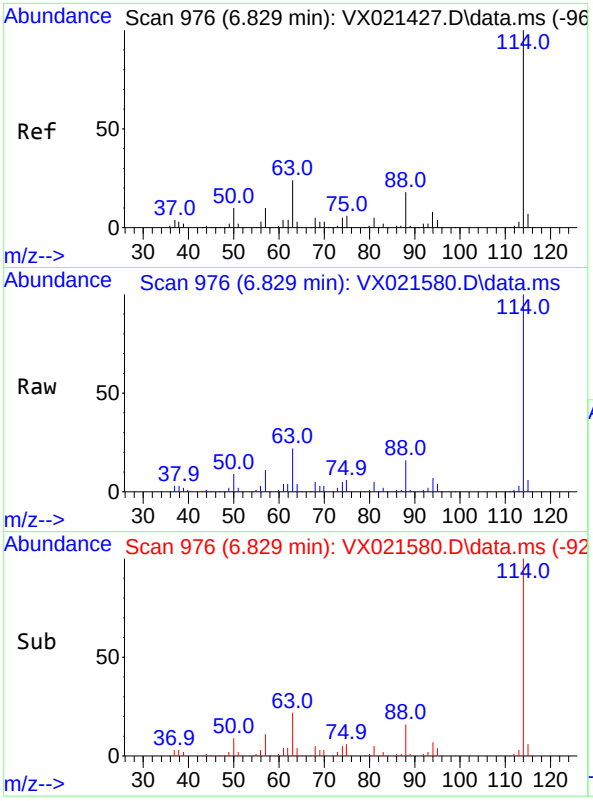
#33
1,2-Dichloroethane-d4
Concen: 50.85 ug/l
RT: 6.029 min Scan# 840
Delta R.T. -0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion: 65 Resp: 50819

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	105.4



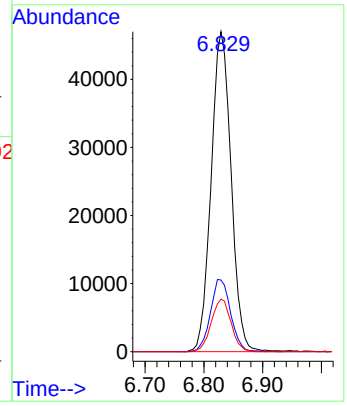
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MSVOA_X
ClientSampleId :
MW-3R

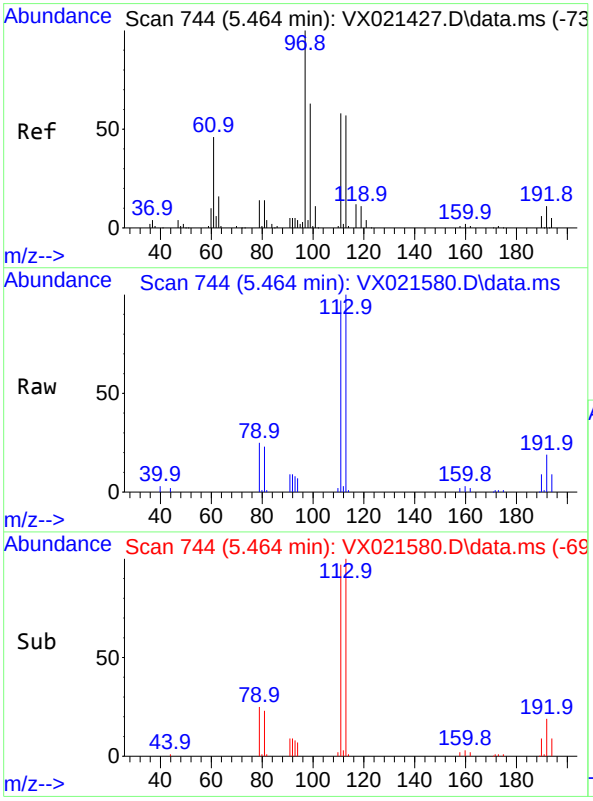


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. -0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:114 Resp: 110895

Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	40.8
88	16.4	0.0	32.8

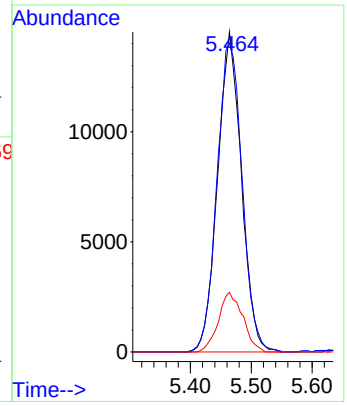




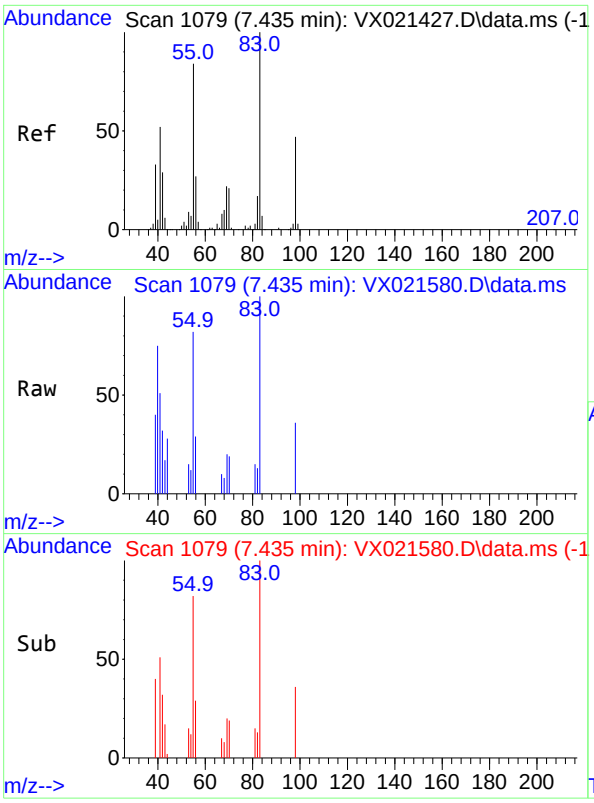
#35
Dibromofluoromethane
Concen: 50.03 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:113 Resp: 39411

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.9	122.9
192	19.1	16.7	25.1



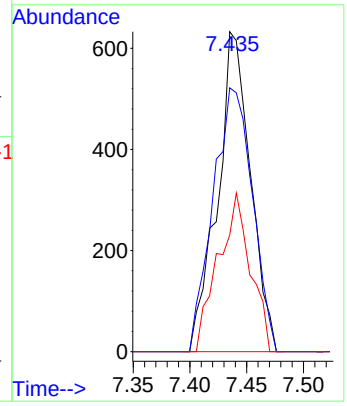
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MSVOA_X
ClientSampleId :
MW-3R

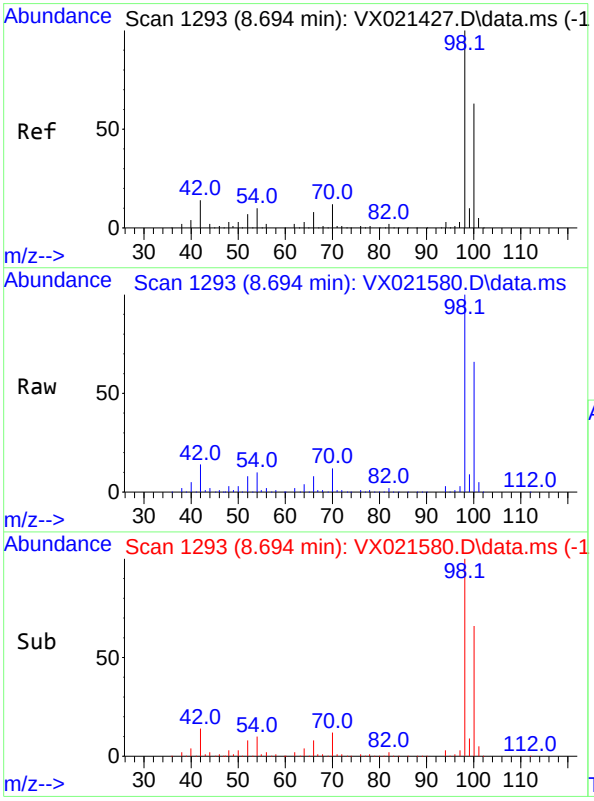


#39
Methylcyclohexane
Concen: 1.06 ug/l
RT: 7.435 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion: 83 Resp: 1280

Ion	Ratio	Lower	Upper
83	100		
55	82.5	58.9	88.3
98	36.5	38.1	57.1#

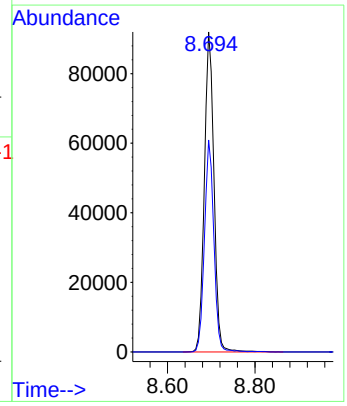




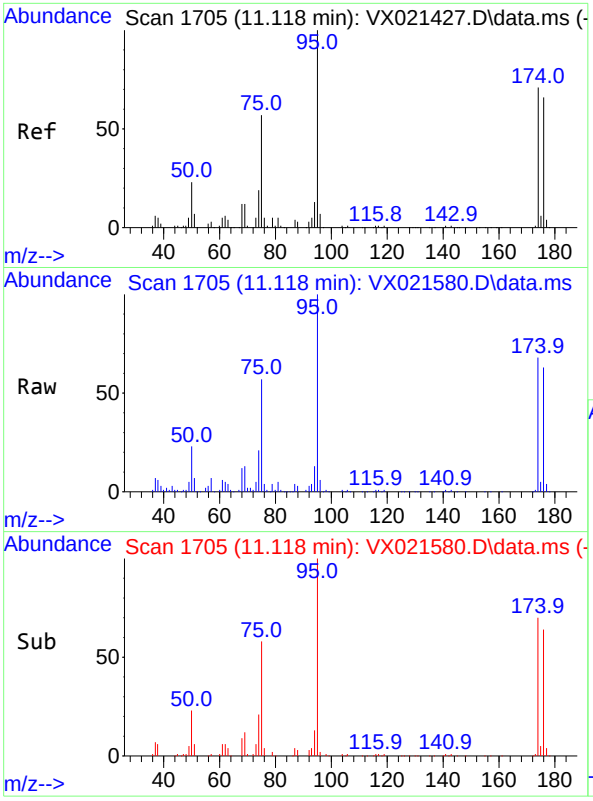
#50
Toluene-d8
Concen: 50.07 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. -0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion: 98 Resp: 140546

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.9	77.9



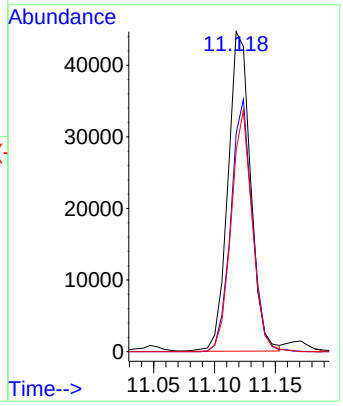
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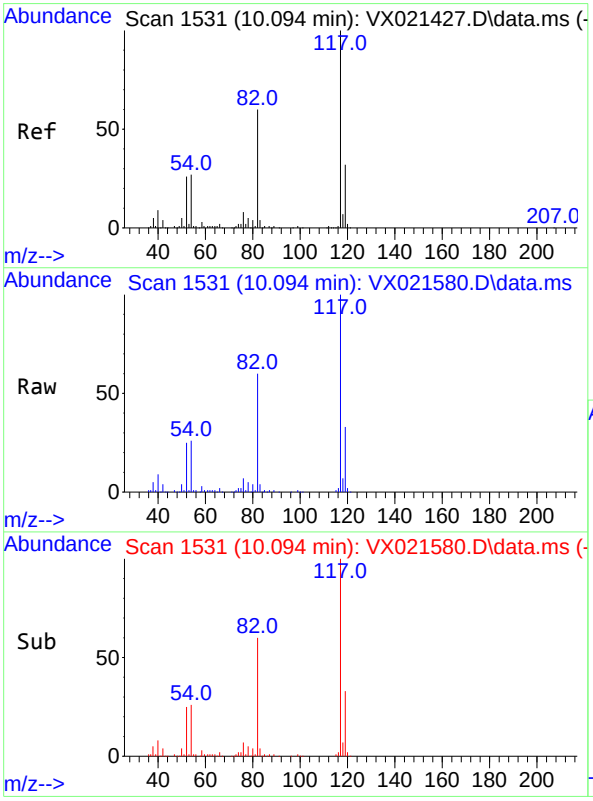


#62
4-Bromofluorobenzene
Concen: 52.79 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion: 95 Resp: 57611

Ion	Ratio	Lower	Upper
95	100		
174	74.9	0.0	154.6
176	70.7	0.0	155.8

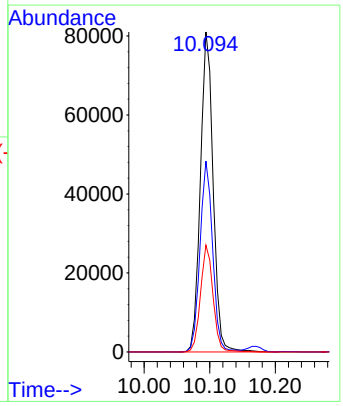




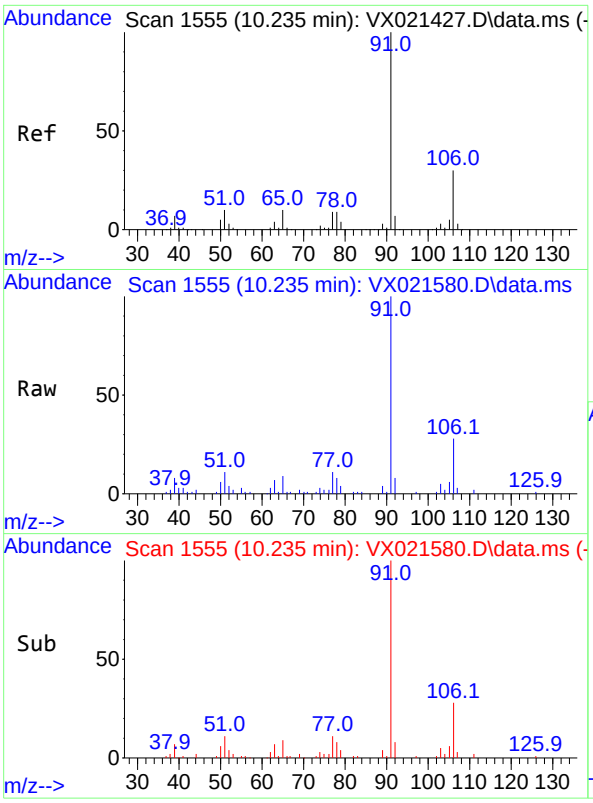
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:117 Resp: 109772

Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.4	71.2
119	33.4	26.6	39.8



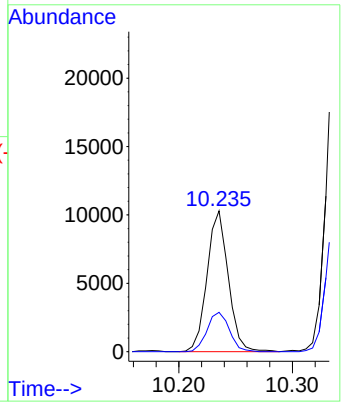
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ClientSampleId :
MW-3R

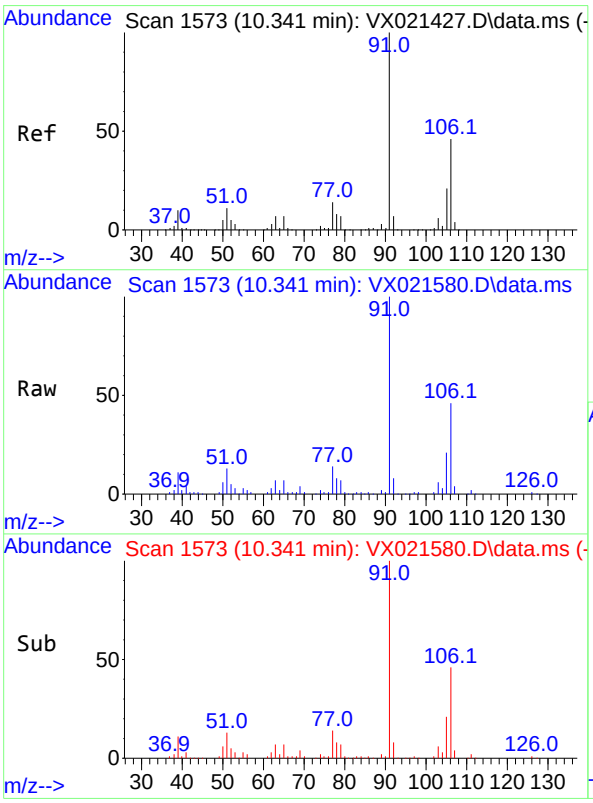


#67
Ethyl Benzene
Concen: 3.33 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion: 91 Resp: 13370

Ion	Ratio	Lower	Upper
91	100		
106	27.9	24.6	37.0

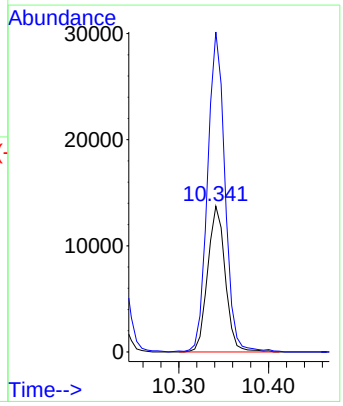




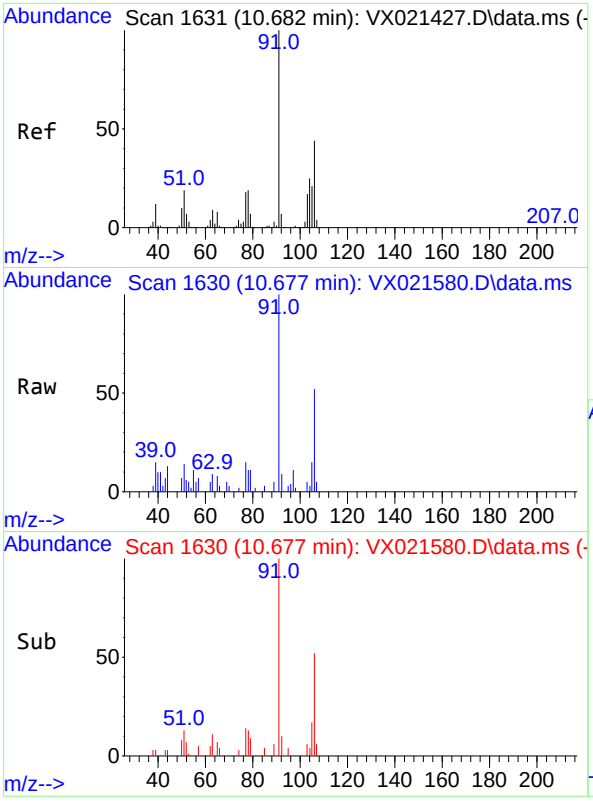
#68
m/p-Xylenes
Concen: 13.07 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:106 Resp: 18714

Ion	Ratio	Lower	Upper
106	100		
91	217.2	162.8	244.2



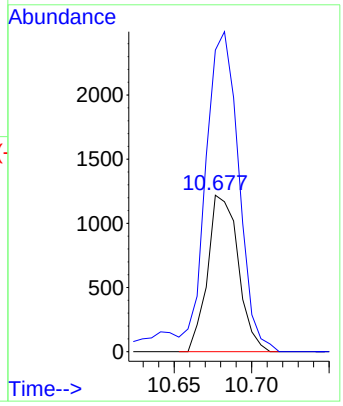
Instrument :
MSVOA_X
ClientSampleId :
MW-3R

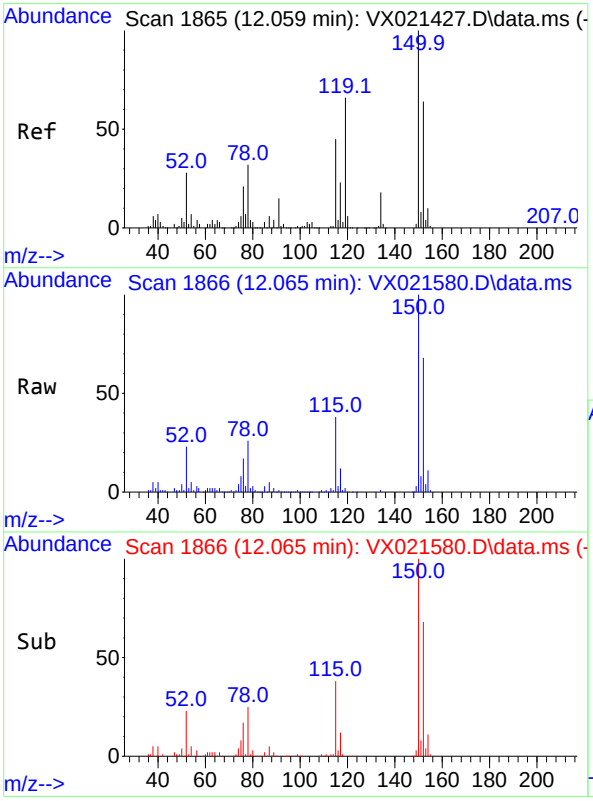


#69
o-Xylene
Concen: 1.20 ug/l
RT: 10.677 min Scan# 1630
Delta R.T. -0.005 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:106 Resp: 1671

Ion	Ratio	Lower	Upper
106	100		
91	236.4	108.1	324.2

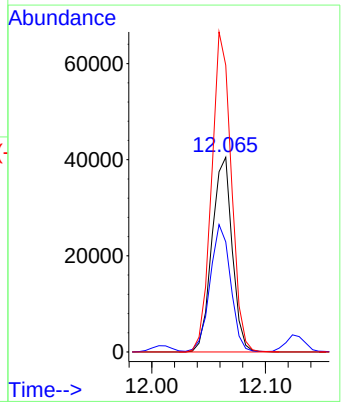




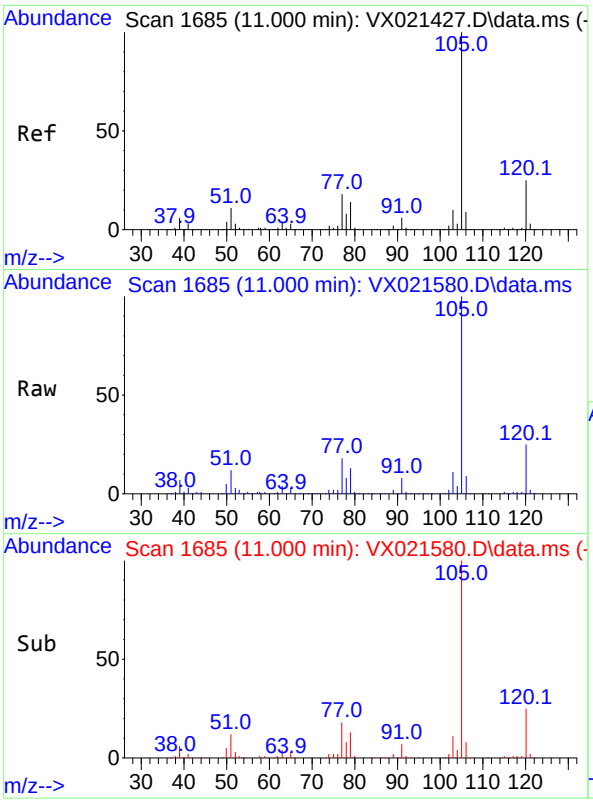
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.065 min Scan# 1866
Delta R.T. 0.006 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:152 Resp: 50223

Ion	Ratio	Lower	Upper
152	100		
115	66.1	41.1	123.3
150	159.7	0.0	349.0



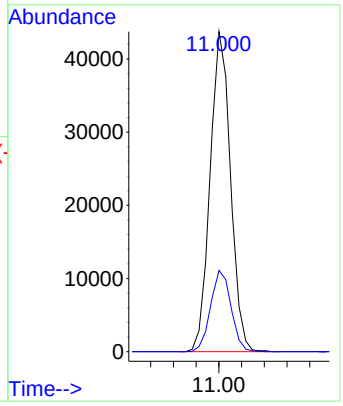
Instrument :
MSVOA_X
ClientSampleId :
MW-3R

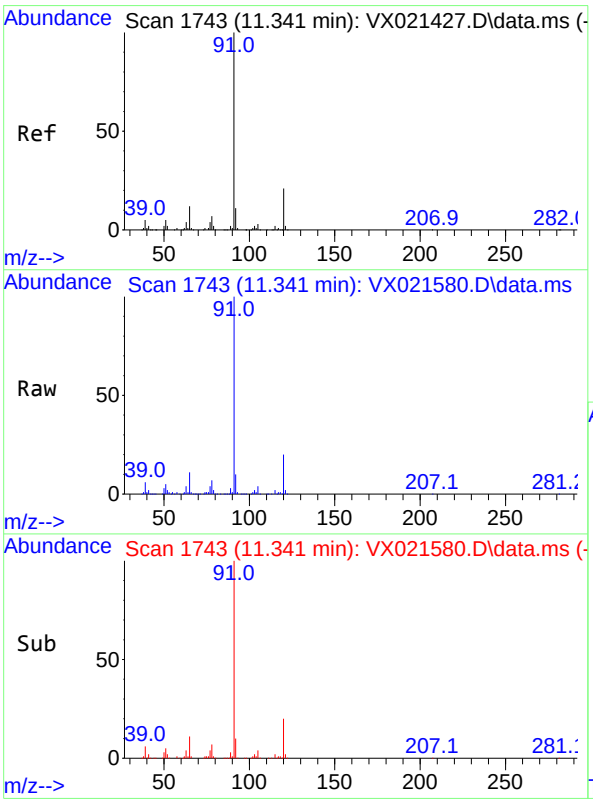


#73
Isopropylbenzene
Concen: 15.45 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:105 Resp: 54510

Ion	Ratio	Lower	Upper
105	100		
120	25.5	13.2	39.6

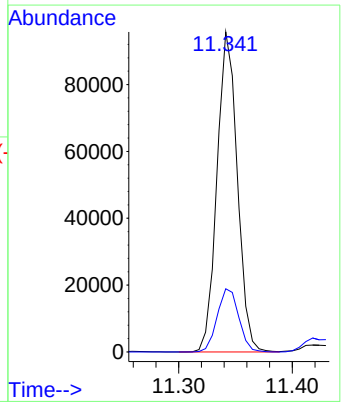




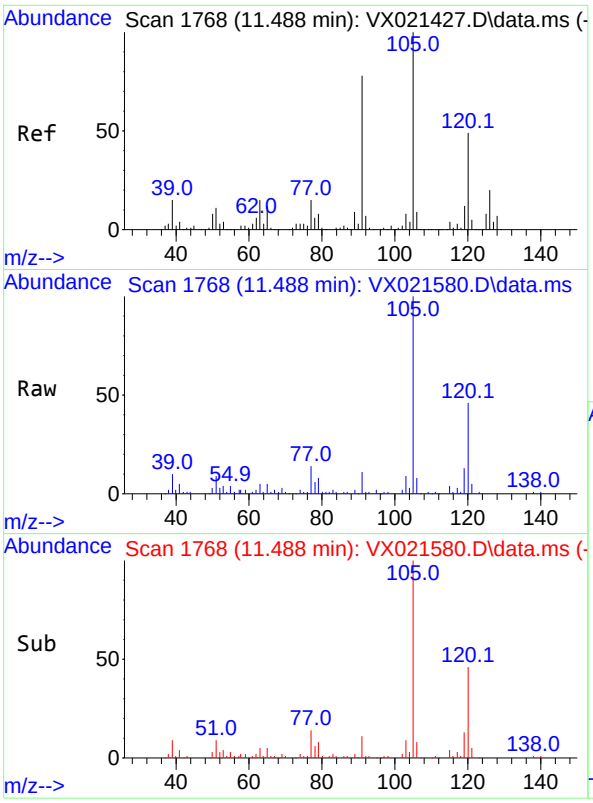
#78
n-propylbenzene
Concen: 28.61 ug/l
RT: 11.341 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion: 91 Resp: 119235

Ion	Ratio	Lower	Upper
91	100		
120	20.9	11.5	34.5



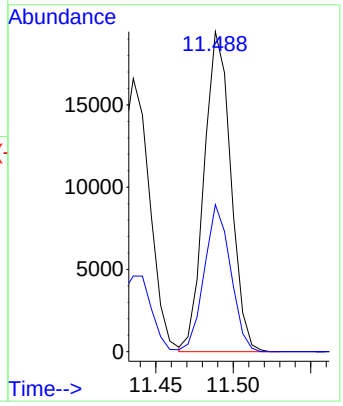
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MSVOA_X
ClientSampleId :
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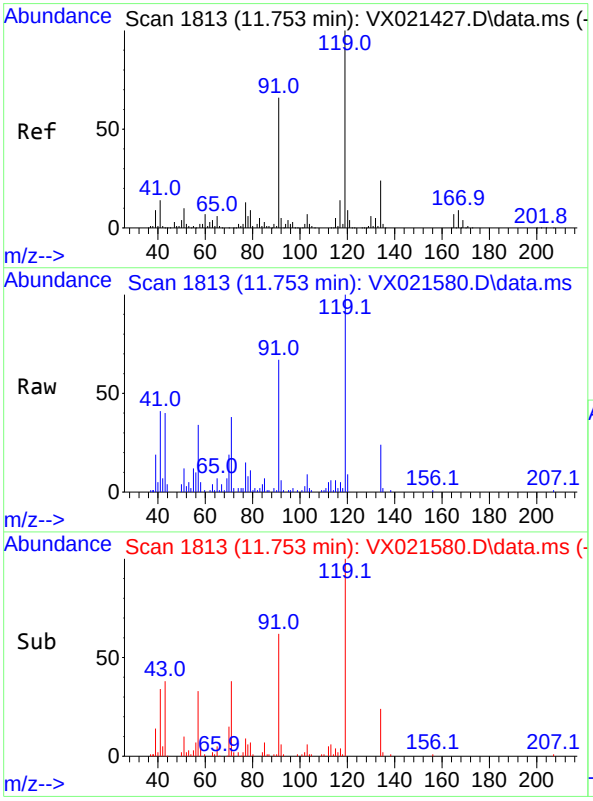


#80
1,3,5-Trimethylbenzene
Concen: 7.72 ug/l
RT: 11.488 min Scan# 1768
Delta R.T. 0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:105 Resp: 23261

Ion	Ratio	Lower	Upper
105	100		
120	45.2	23.8	71.5

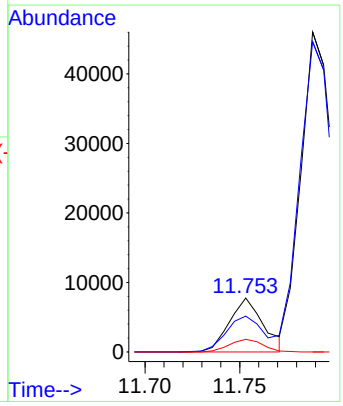




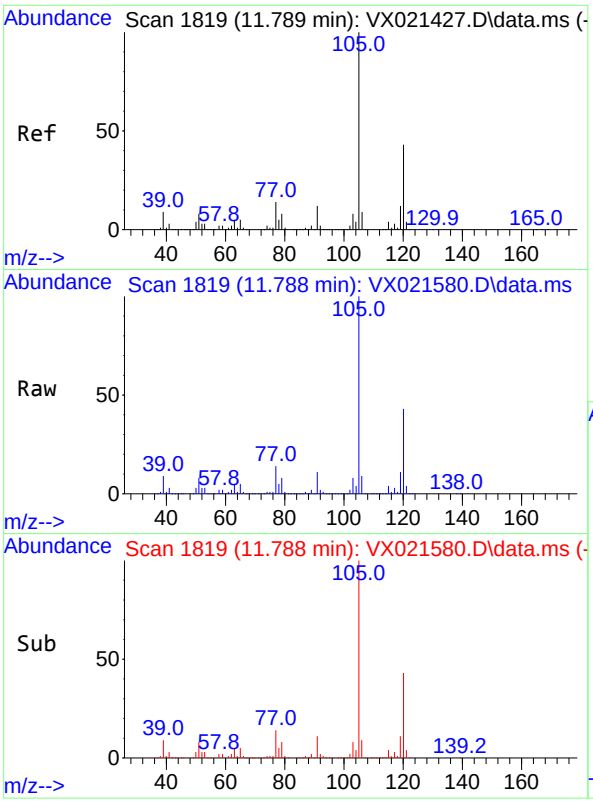
#83
tert-Butylbenzene
Concen: 3.29 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:119 Resp: 9665

Ion	Ratio	Lower	Upper
119	100		
91	69.2	27.9	83.7
134	23.1	11.3	33.9



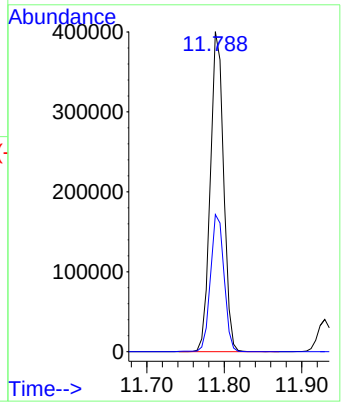
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MSVOA_X
ClientSampleId :
MW-3R

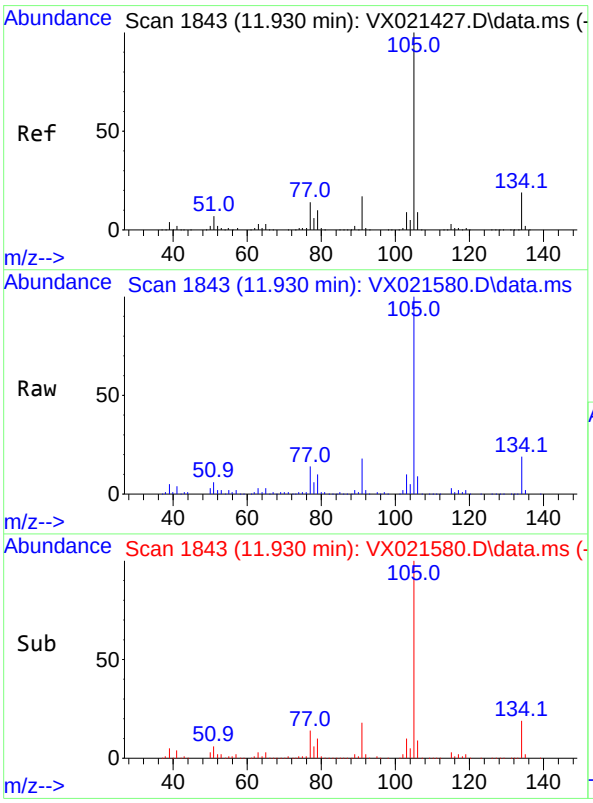


#84
1,2,4-Trimethylbenzene
Concen: 156.93 ug/l
RT: 11.788 min Scan# 1819
Delta R.T. -0.001 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:105 Resp: 476928

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.4	67.3

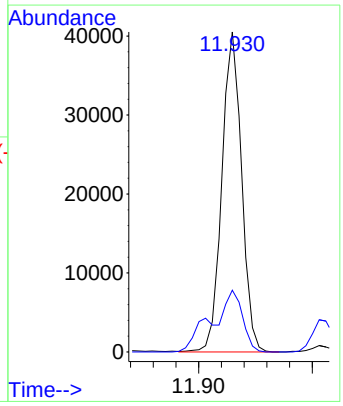




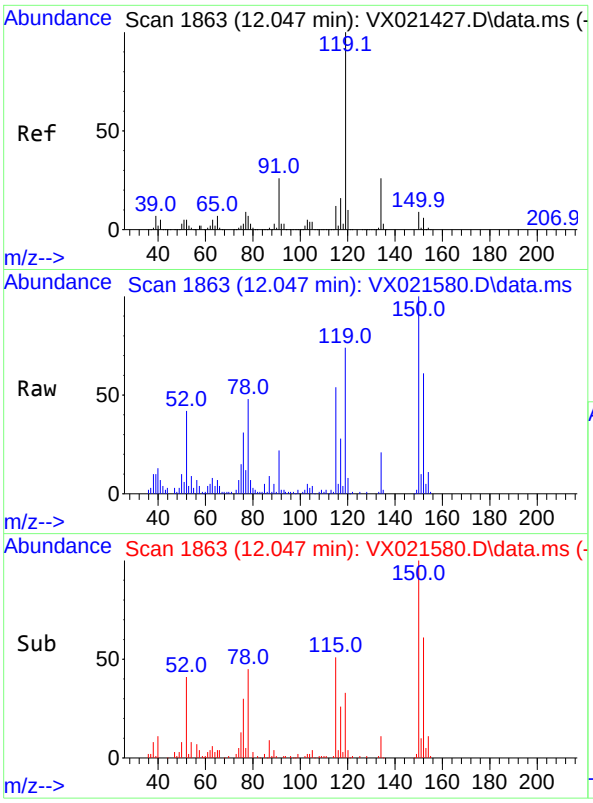
#85
sec-Butylbenzene
Concen: 14.43 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:105 Resp: 48871

Ion	Ratio	Lower	Upper
105	100		
134	19.8	10.0	29.8



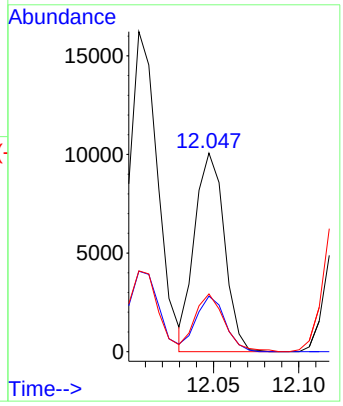
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ClientSampleId :
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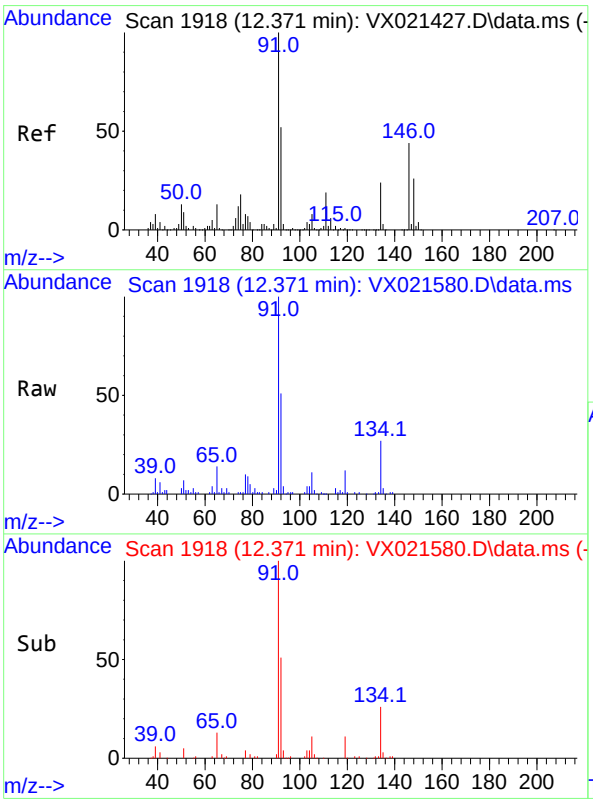


#86
p-Isopropyltoluene
Concen: 3.97 ug/l
RT: 12.047 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:119 Resp: 12246

Ion	Ratio	Lower	Upper
119	100		
134	27.3	12.9	38.7
91	29.1	11.7	35.0

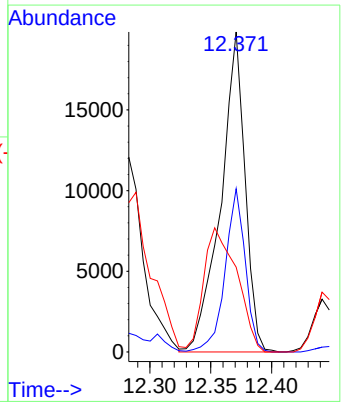




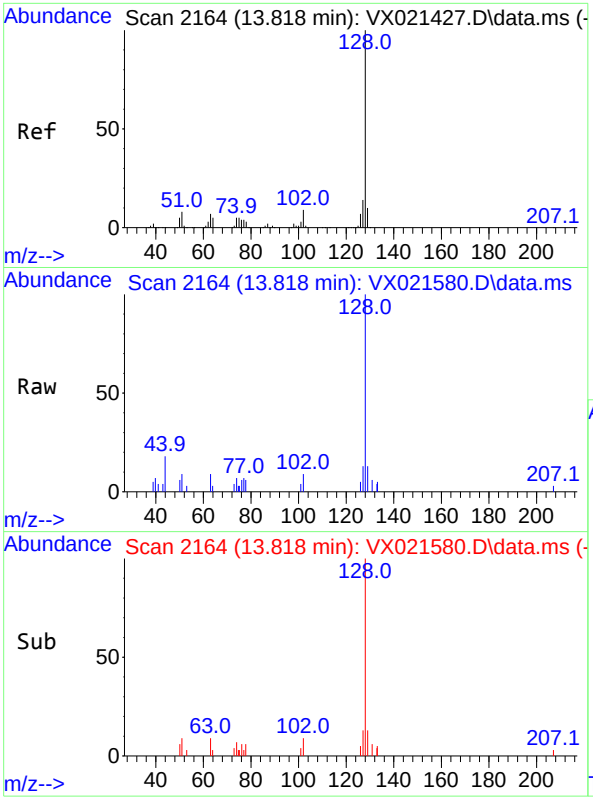
#89
n-Butylbenzene
Concen: 9.77 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. -0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion: 91 Resp: 27595

Ion	Ratio	Lower	Upper
91	100		
92	42.3	27.4	82.0
134	52.9	13.2	39.5#



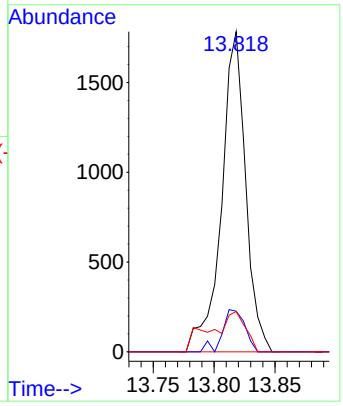
Instrument :
MSVOA_X
ClientSampleId :
MW-3R



#95
Naphthalene
Concen: 0.75 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021580.D
Acq: 29 Mar 2021 16:26

Tgt Ion:128 Resp: 2459

Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.3	15.5
129	9.6	8.8	13.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-3R

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

Signal : TIC: VX021580.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.464	726	744	756	rBV	48465	135484	9.65%	1.944%
2	5.629	761	772	789	rVB	68613	193263	13.76%	2.773%
3	6.029	829	840	858	rBV	51718	135438	9.64%	1.943%
4	6.829	965	976	988	rBV	117898	277962	19.79%	3.988%
5	8.694	1287	1293	1303	rVB	255146	385112	27.42%	5.526%
6	10.094	1526	1531	1539	rBV	267237	356034	25.35%	5.108%
7	10.171	1539	1544	1548	rVB	9858	15772	1.12%	0.226%
8	10.235	1548	1555	1560	rBV	26976	39241	2.79%	0.563%
9	10.341	1560	1573	1579	rBV	95623	157639	11.23%	2.262%
10	10.624	1609	1621	1628	rBV5	20236	52660	3.75%	0.756%
11	10.682	1628	1631	1640	rVB4	8845	19719	1.40%	0.283%
12	10.818	1645	1654	1659	rVB2	43438	69422	4.94%	0.996%
13	10.894	1659	1667	1671	rBV3	39857	61213	4.36%	0.878%
14	11.000	1680	1685	1690	rBV	113501	142569	10.15%	2.046%
15	11.118	1700	1705	1710	rBV	223429	291246	20.74%	4.179%
16	11.165	1710	1713	1717	rVB	17913	23045	1.64%	0.331%
17	11.259	1721	1729	1738	rVV4	24210	38922	2.77%	0.558%
18	11.341	1738	1743	1752	rVV	195842	255081	18.16%	3.660%
19	11.418	1752	1756	1757	rVV	44440	51017	3.63%	0.732%
20	11.435	1757	1759	1763	rVV	51283	64173	4.57%	0.921%
21	11.488	1763	1768	1777	rVB	61206	96329	6.86%	1.382%
22	11.653	1791	1796	1803	rBV5	24652	43535	3.10%	0.625%
23	11.753	1809	1813	1815	rBV	40460	46549	3.31%	0.668%
24	11.788	1815	1819	1829	rVB	1160962	1404249	100.00%	20.148%
25	11.906	1829	1839	1840	rBV	54698	77934	5.55%	1.118%
26	11.930	1840	1843	1848	rVB	103654	125764	8.96%	1.804%
27	11.983	1848	1852	1853	rBV	13084	14043	1.00%	0.201%
28	12.006	1853	1856	1860	rVV	44702	52479	3.74%	0.753%
29	12.059	1860	1865	1871	rVB2	277919	371749	26.47%	5.334%
30	12.124	1871	1876	1887	rVB	236883	294995	21.01%	4.233%
31	12.218	1887	1892	1898	rVB	36639	50890	3.62%	0.730%
32	12.283	1898	1903	1910	rBV2	212928	313594	22.33%	4.500%
33	12.353	1910	1915	1923	rVB2	94680	183368	13.06%	2.631%
34	12.441	1924	1930	1937	rBV	41653	56886	4.05%	0.816%
35	12.571	1946	1952	1954	rBV	76651	106709	7.60%	1.531%
36	12.594	1954	1956	1960	rVV	80310	80913	5.76%	1.161%

Sample Results: **VX021580.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-3R

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

37	12.653	1961	1966	1969	rVV	163260	197806	14.09%	2.838%
38	12.683	1969	1971	1976	rVB	47914	53472	3.81%	0.767%
39	12.742	1976	1981	1989	rBV3	101423	185690	13.22%	2.664%
40	12.883	2001	2005	2010	rVB2	44020	61188	4.36%	0.878%
41	12.959	2010	2018	2022	rBV2	47328	73248	5.22%	1.051%
42	13.000	2022	2025	2032	rVB	74966	88692	6.32%	1.273%
43	13.065	2032	2036	2042	rBV3	17347	26701	1.90%	0.383%
44	13.130	2042	2047	2052	rBV	11329	15346	1.09%	0.220%
45	13.206	2057	2060	2063	rVB	13122	14756	1.05%	0.212%
46	13.330	2076	2081	2087	rVB2	79795	117445	8.36%	1.685%
47	13.459	2099	2103	2109	rVB	38459	50185	3.57%	0.720%

Sum of corrected areas: 6969527

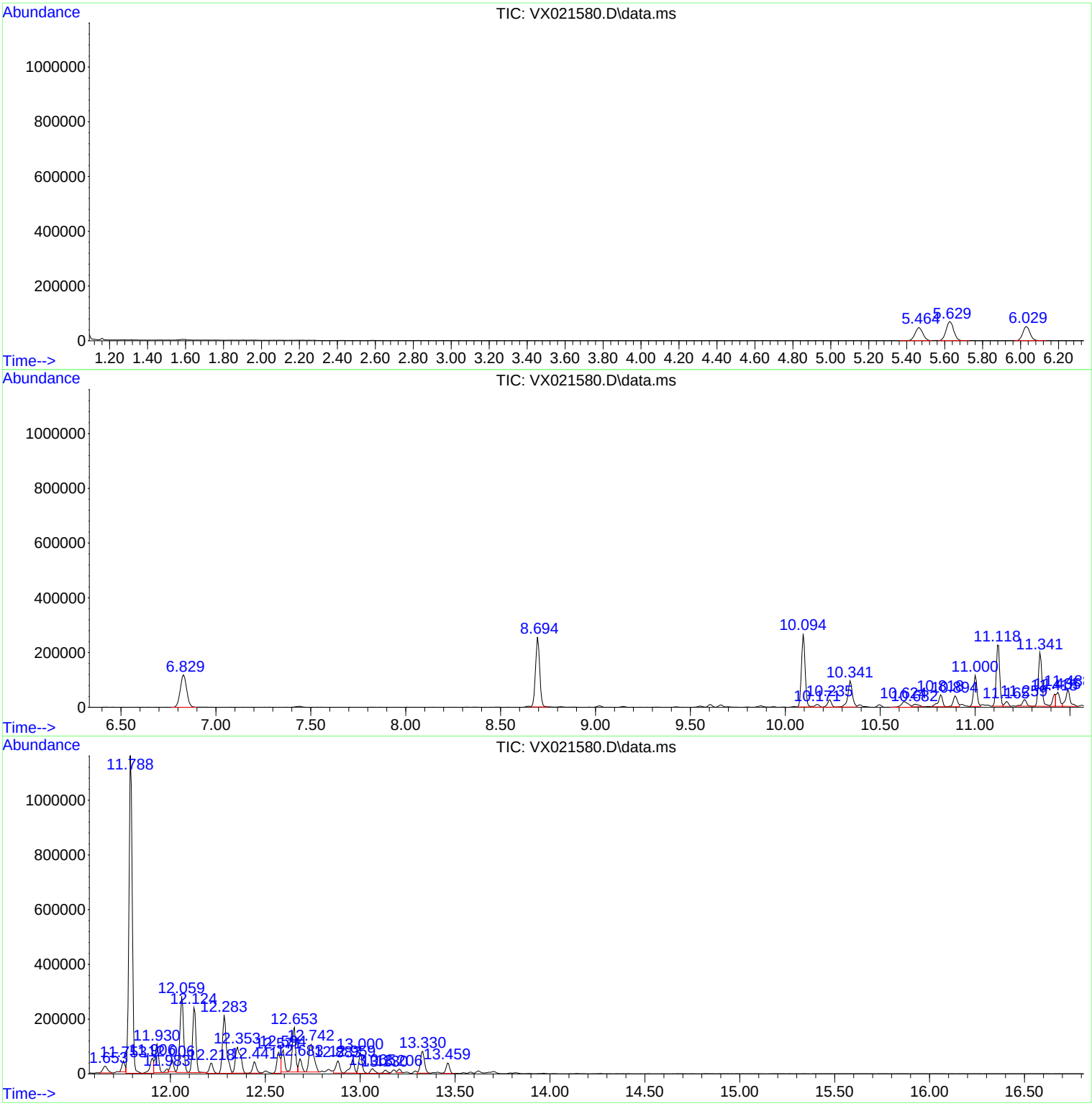
Sample Results: **VX021580.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-3R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-3R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

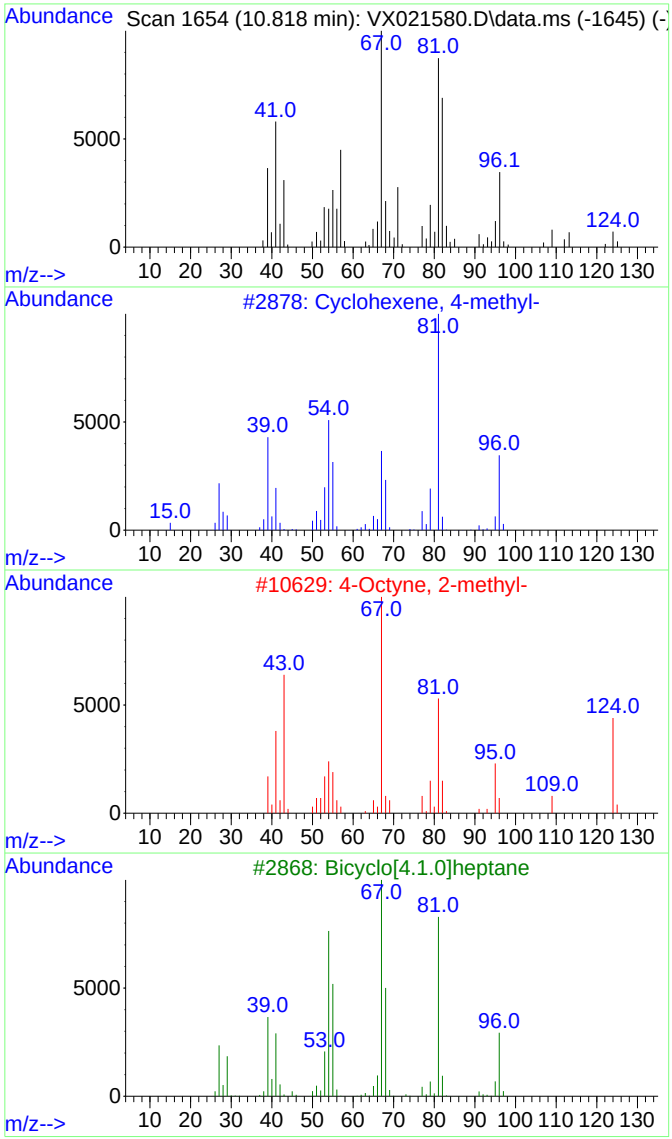
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TIC Integration Parameters: LSCINT.P

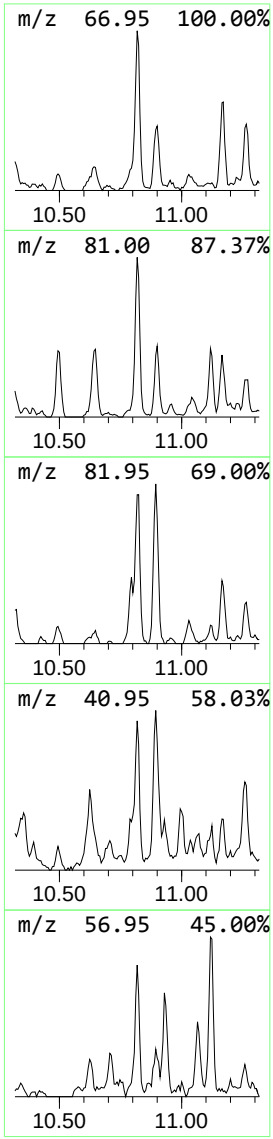
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Peak Number 1 Cyclohexene, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.818	9.75 ug/l	69422	Chlorobenzene-d5	10.094

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	55
2	4-Octyne, 2-methyl-	124	C9H16	010306-94-2	52
3	Bicyclo[4.1.0]heptane	96	C7H12	000286-08-8	52
4	1,4-Hexadiene, 2-methyl-	96	C7H12	001119-14-8	46
5	Ethylidenecycloheptane	124	C9H16	010494-87-8	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-3R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

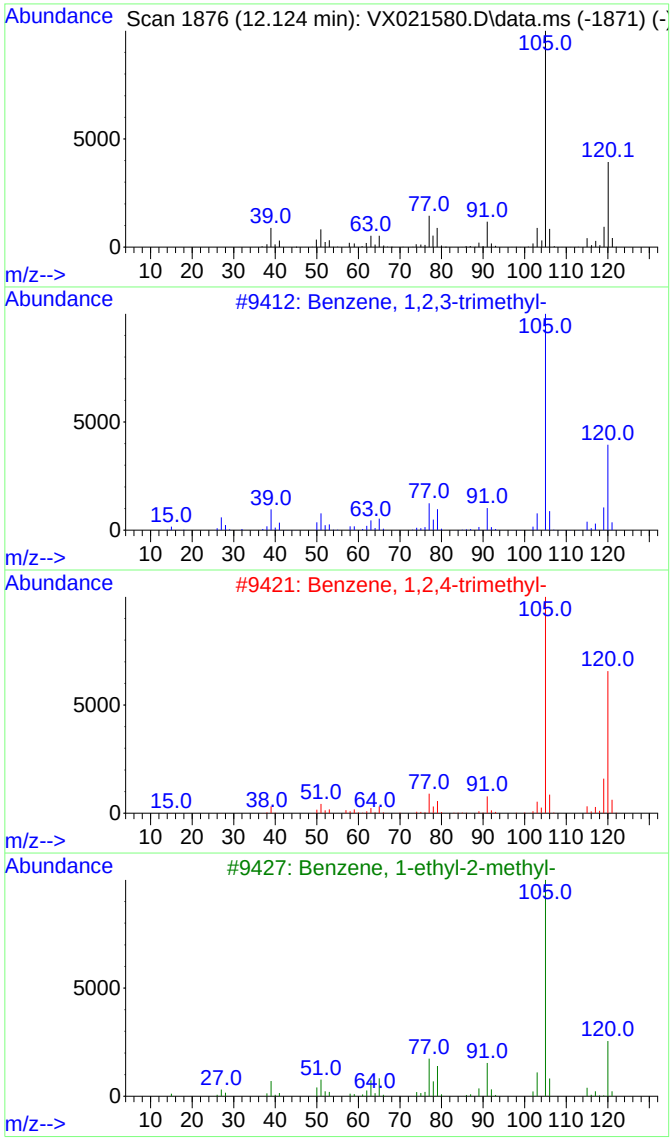
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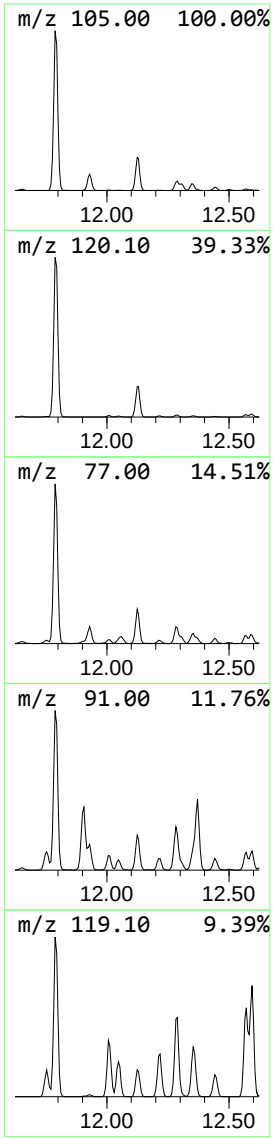
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Peak Number 2 Benzene, 1,2,3-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.124	39.68 ug/l	294995	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
4	Mesitylene	120	C9H12	000108-67-8	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-3R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

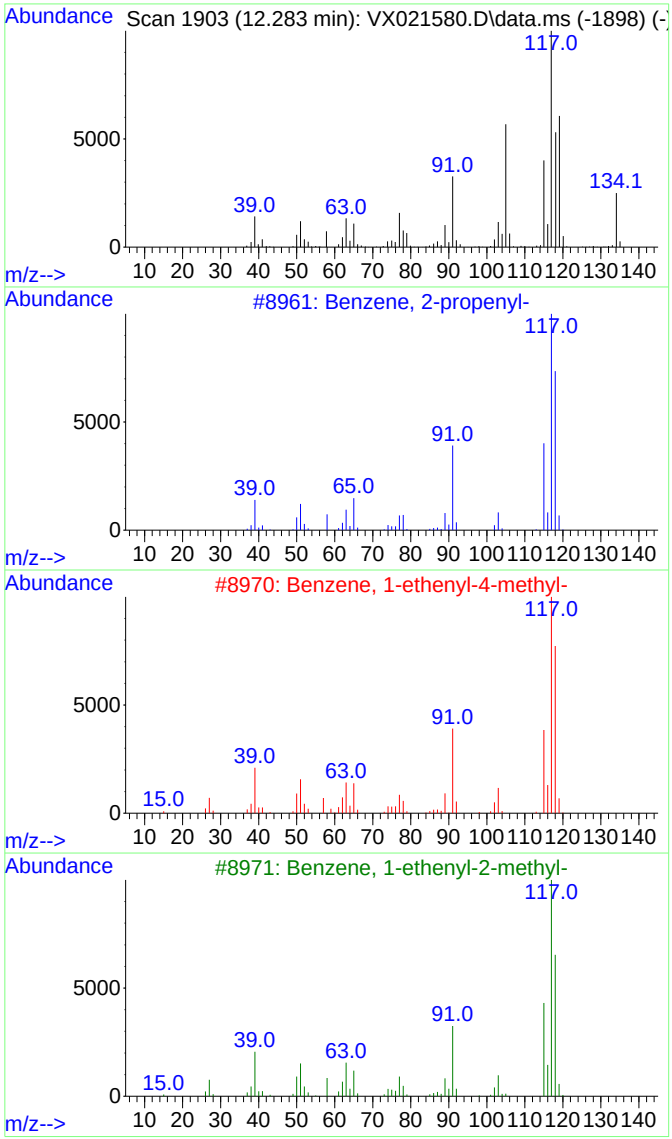
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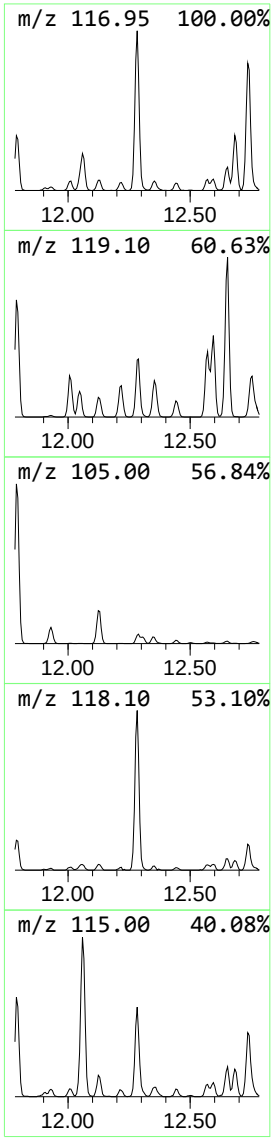
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Peak Number 3 Benzene, 2-propenyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.283	42.18 ug/l	313594	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-propenyl-	118	C9H10	000300-57-2	91
2	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	86
3	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	83
4	Indane	118	C9H10	000496-11-7	70
5	Benzene, cyclopropyl-	118	C9H10	000873-49-4	60





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-3R

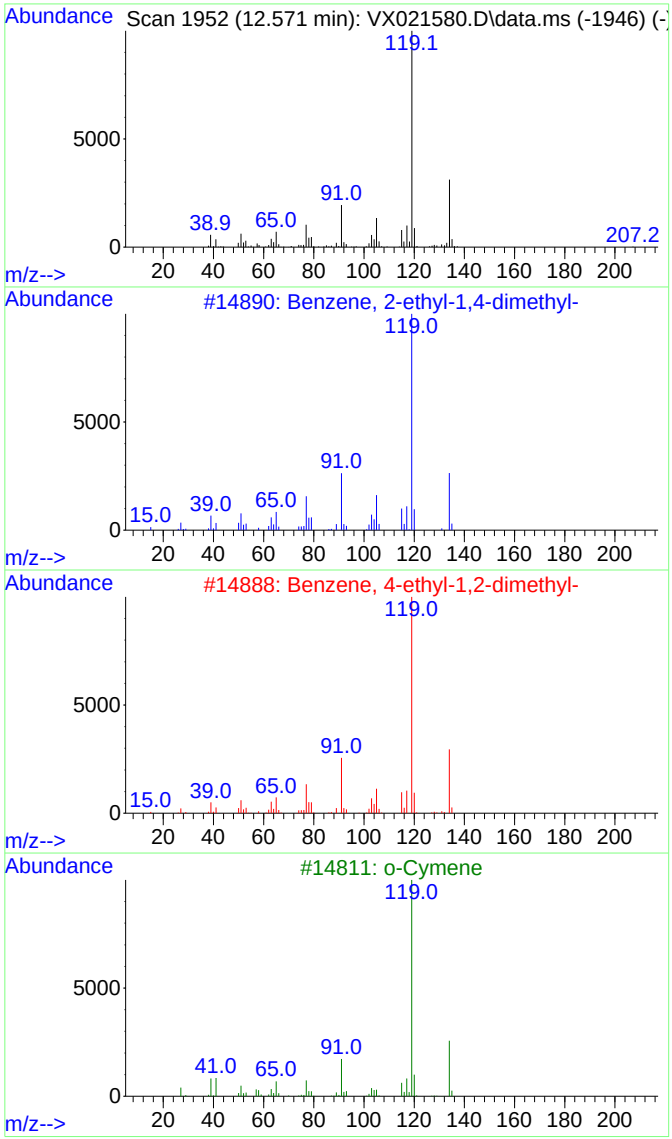
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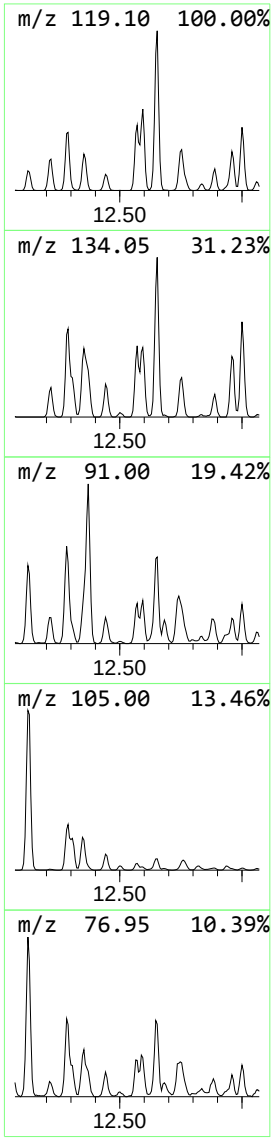
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.571	14.35 ug/l	106709	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
3	o-Cymene	134	C10H14	000527-84-4	95
4	p-Cymene	134	C10H14	000099-87-6	95
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-3R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

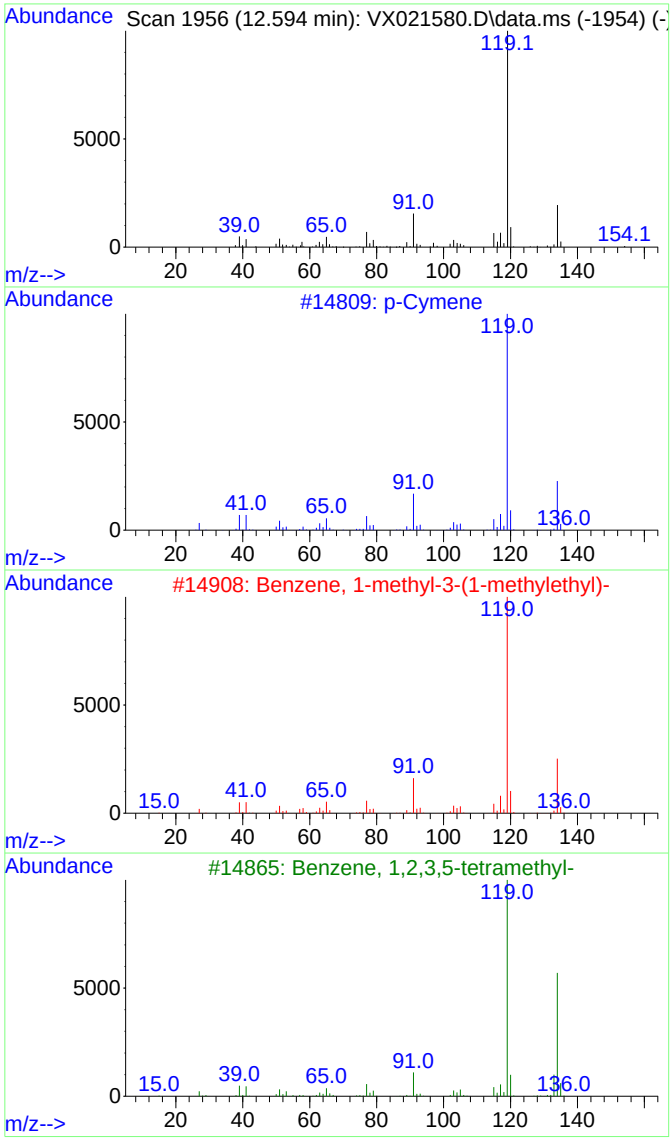
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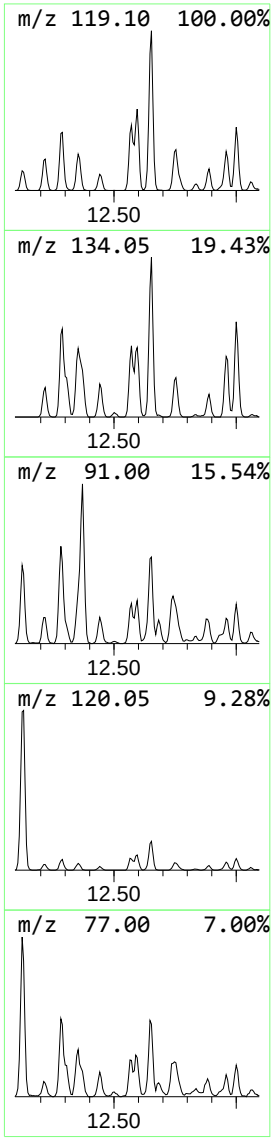
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Peak Number 5 p-Cymene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.595	10.88 ug/l	80913	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Cymene	134	C10H14	000099-87-6	95
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-3R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

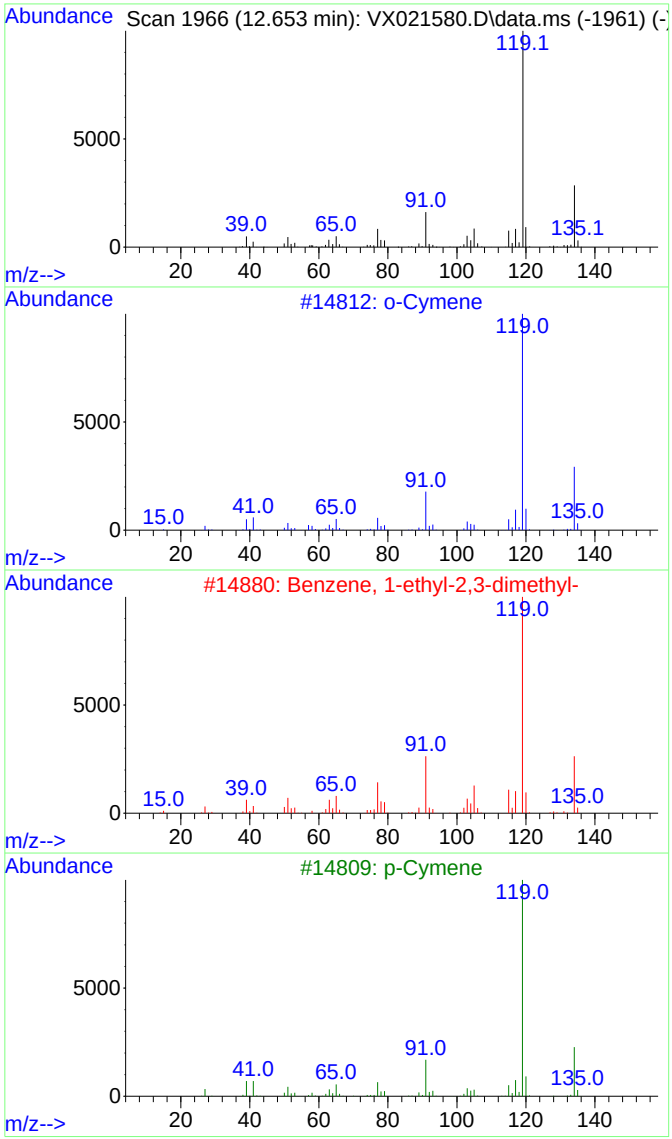
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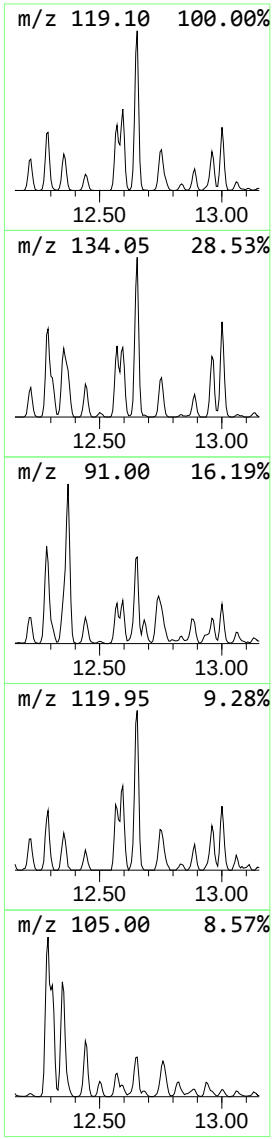
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Peak Number 6 o-Cymene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.653	26.60 ug/l	197806	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	97
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	96
3	p-Cymene	134	C10H14	000099-87-6	95
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-3R

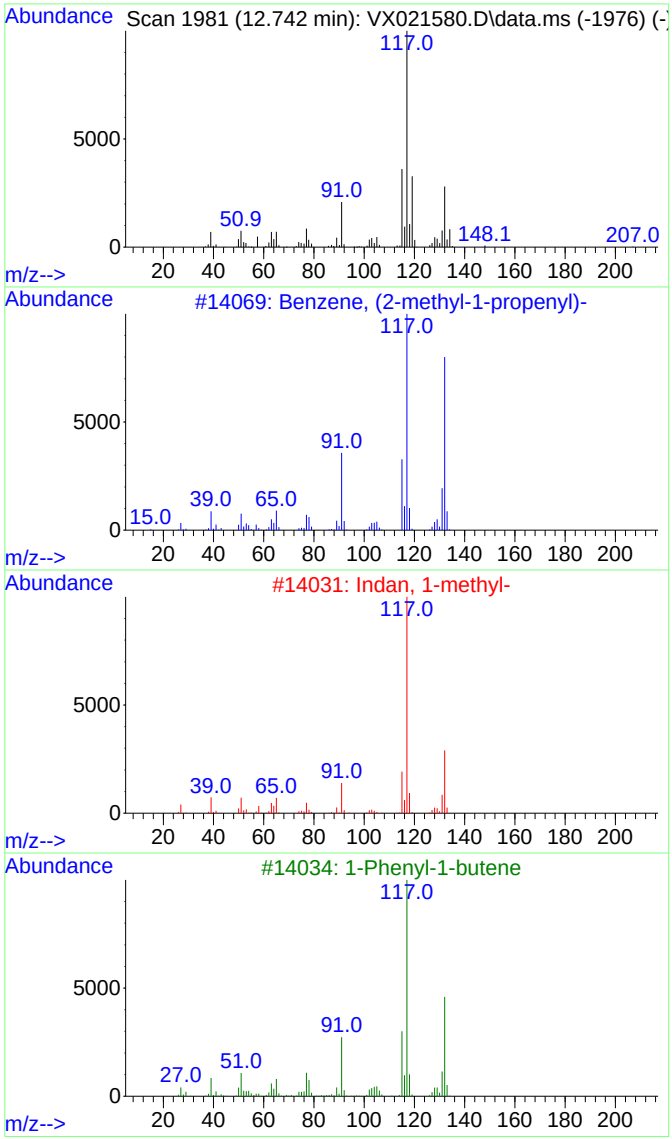
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Quant Title : SW846 8260

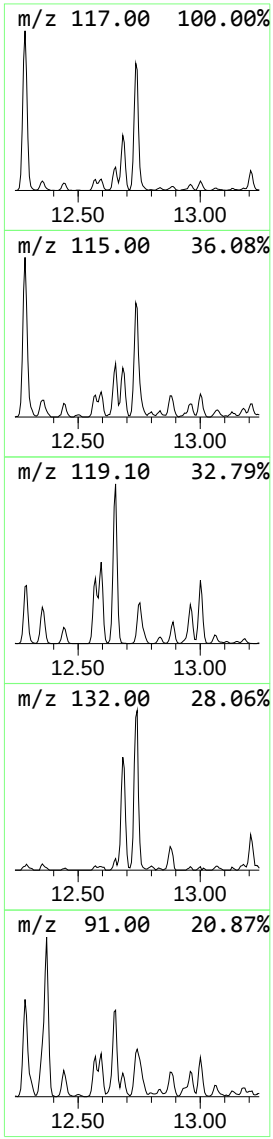
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Benzene, (2-methyl-1-propen... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.742	24.98 ug/l	185690	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	87
2	Indan, 1-methyl-	132	C10H12	000767-58-8	87
3	1-Phenyl-1-butene	132	C10H12	000824-90-8	87
4	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	83
5	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	83





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-3R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

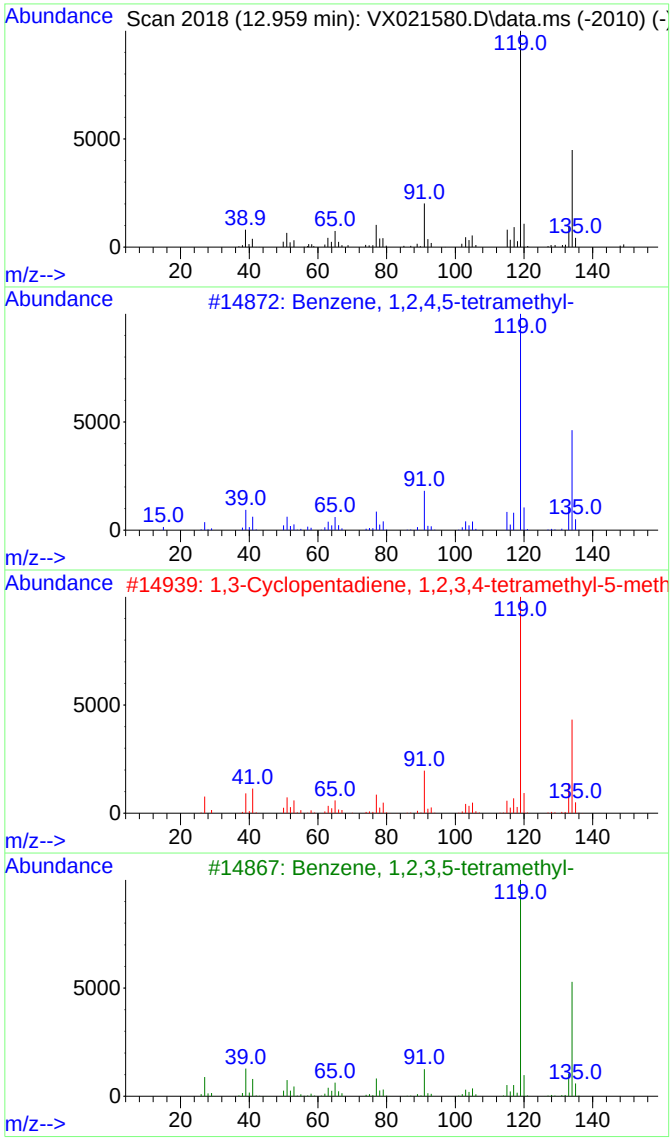
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TIC Integration Parameters: LSCINT.P

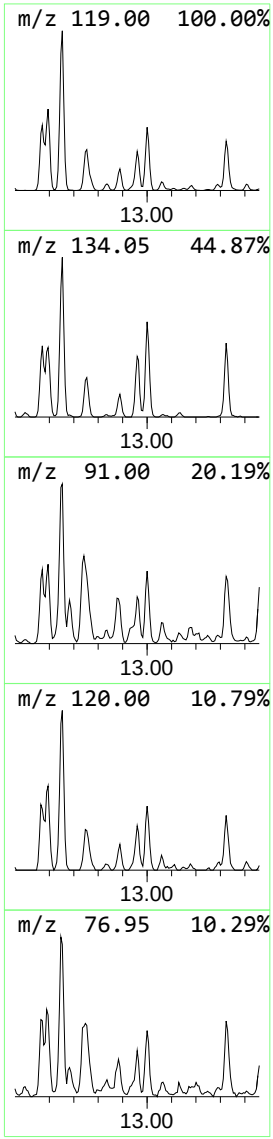
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Peak Number 8 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.959	9.85 ug/l	73248	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
2	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	94
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	93
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-3R

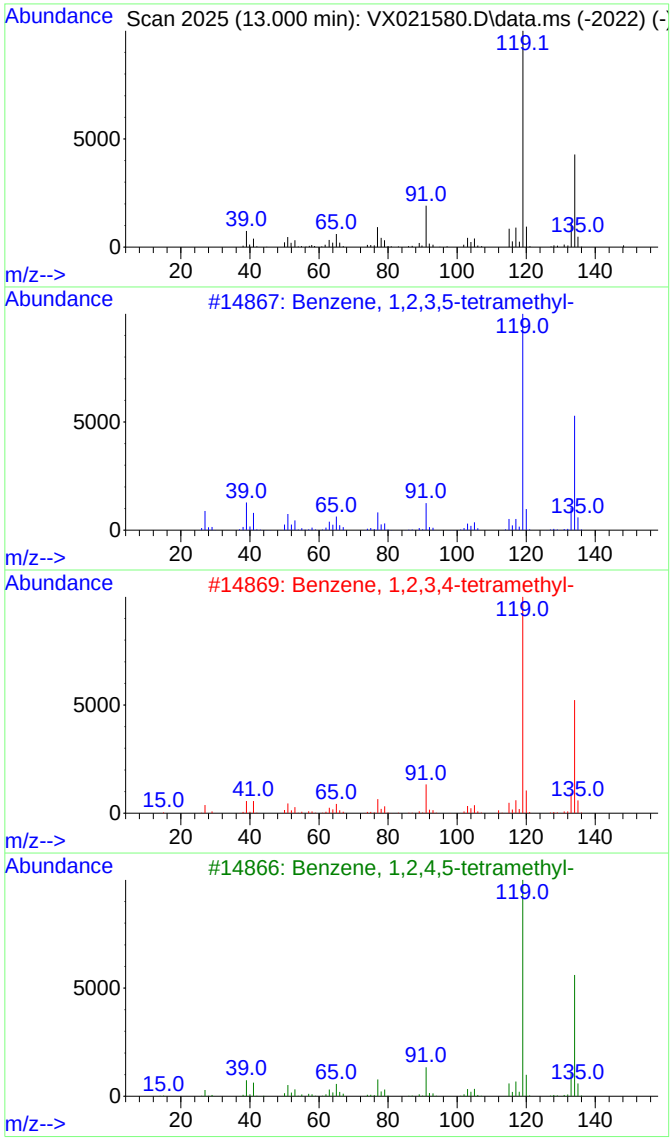
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Quant Title : SW846 8260

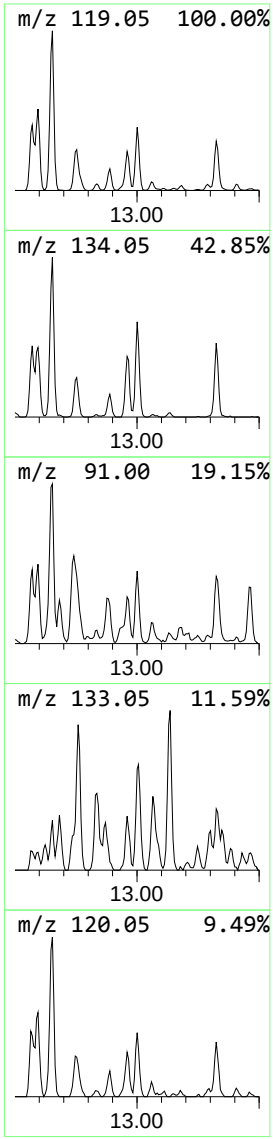
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.000	11.93 ug/l	88692	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	96
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
4	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	94
5	o-Cymene	134	C10H14	000527-84-4	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-3R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

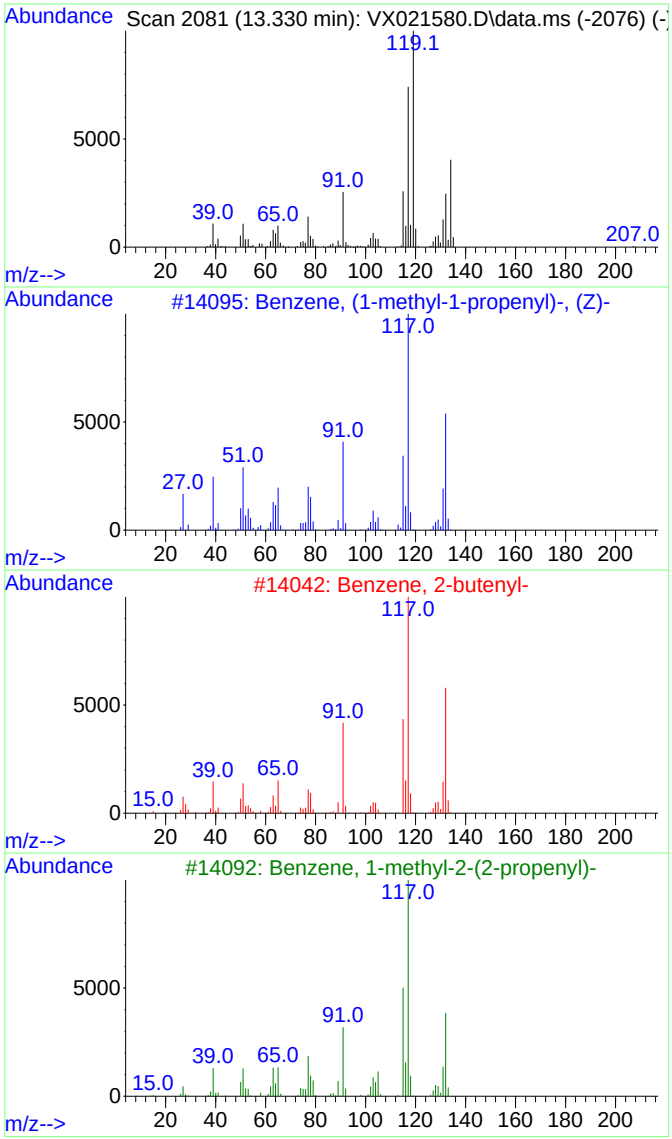
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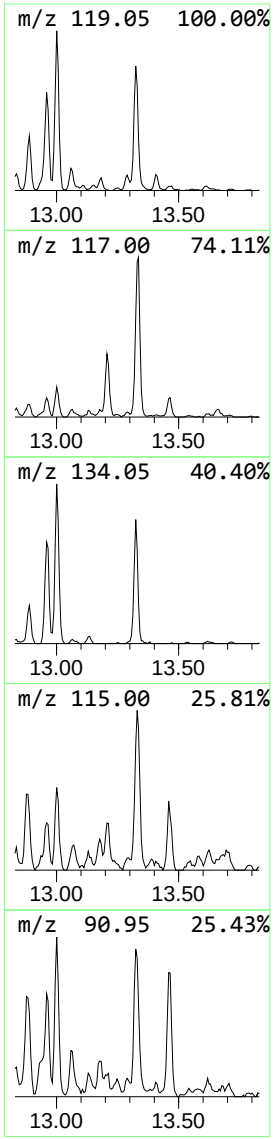
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Peak Number 10 Benzene, (1-methyl-1-propen... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.330	15.80 ug/l	117445	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	90
2	Benzene, 2-butenyl-	132	C10H12	001560-06-1	70
3	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	70
4	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	55
5	Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	55





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021580.D
Acq On : 29 Mar 2021 16:26
Operator : JC/MD
Sample : M1785-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-3R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Cyclohexene, 4-...	10.818	9.8	ug/l	69422	3	10.094	356034	50.0
Benzene, 1,2,3-...	12.124	39.7	ug/l	294995	4	12.065	371749	50.0
Benzene, 2-prop...	12.283	42.2	ug/l	313594	4	12.065	371749	50.0
Benzene, 2-ethy...	12.571	14.4	ug/l	106709	4	12.065	371749	50.0
p-Cymene	12.595	10.9	ug/l	80913	4	12.065	371749	50.0
o-Cymene	12.653	26.6	ug/l	197806	4	12.065	371749	50.0
Benzene, (2-met...	12.742	25.0	ug/l	185690	4	12.065	371749	50.0
Benzene, 1,2,4,...	12.959	9.8	ug/l	73248	4	12.065	371749	50.0
Benzene, 1,2,3,...	13.000	11.9	ug/l	88692	4	12.065	371749	50.0
Benzene, (1-met...	13.330	15.8	ug/l	117445	4	12.065	371749	50.0

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-3RDL	SDG No.:	M1785
Lab Sample ID:	M1785-14DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021573.D	40		03/29/21 13:42	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	40.0	UD	9.20	40.0	ug/L
74-87-3	Chloromethane	40.0	UD	8.10	40.0	ug/L
75-01-4	Vinyl Chloride	40.0	UD	7.70	40.0	ug/L
74-83-9	Bromomethane	200	UD	34.6	200	ug/L
75-00-3	Chloroethane	40.0	UD	14.1	40.0	ug/L
75-69-4	Trichlorofluoromethane	40.0	UD	10.0	40.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	40.0	UD	8.50	40.0	ug/L
75-35-4	1,1-Dichloroethene	40.0	UD	10.3	40.0	ug/L
67-64-1	Acetone	200	UD	64.4	200	ug/L
75-15-0	Carbon Disulfide	40.0	UD	10.1	40.0	ug/L
1634-04-4	Methyl tert-butyl Ether	40.0	UD	8.80	40.0	ug/L
79-20-9	Methyl Acetate	40.0	UD	18.8	40.0	ug/L
75-09-2	Methylene Chloride	40.0	UD	7.20	40.0	ug/L
156-60-5	trans-1,2-Dichloroethene	40.0	UD	7.60	40.0	ug/L
75-34-3	1,1-Dichloroethane	40.0	UD	8.30	40.0	ug/L
110-82-7	Cyclohexane	200	UD	52.2	200	ug/L
78-93-3	2-Butanone	200	UD	35.8	200	ug/L
56-23-5	Carbon Tetrachloride	40.0	UD	10.9	40.0	ug/L
156-59-2	cis-1,2-Dichloroethene	40.0	UD	8.90	40.0	ug/L
74-97-5	Bromochloromethane	40.0	UD	10.3	40.0	ug/L
67-66-3	Chloroform	40.0	UD	10.7	40.0	ug/L
71-55-6	1,1,1-Trichloroethane	40.0	UD	7.80	40.0	ug/L
108-87-2	Methylcyclohexane	17.6	JD	5.70	40.0	ug/L
71-43-2	Benzene	40.0	UD	7.20	40.0	ug/L
107-06-2	1,2-Dichloroethane	40.0	UD	10.0	40.0	ug/L
79-01-6	Trichloroethene	40.0	UD	7.00	40.0	ug/L
78-87-5	1,2-Dichloropropane	40.0	UD	6.80	40.0	ug/L
75-27-4	Bromodichloromethane	40.0	UD	7.90	40.0	ug/L
108-10-1	4-Methyl-2-Pentanone	200	UD	34.7	200	ug/L
108-88-3	Toluene	40.0	UD	8.60	40.0	ug/L
10061-02-6	t-1,3-Dichloropropene	40.0	UD	7.10	40.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	40.0	UD	6.60	40.0	ug/L

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-3RDL	SDG No.:	M1785
Lab Sample ID:	M1785-14DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021573.D	40		03/29/21 13:42	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	40.0	UD	9.60	40.0	ug/L
591-78-6	2-Hexanone	200	UD	36.8	200	ug/L
124-48-1	Dibromochloromethane	40.0	UD	7.10	40.0	ug/L
106-93-4	1,2-Dibromoethane	40.0	UD	6.50	40.0	ug/L
127-18-4	Tetrachloroethene	40.0	UD	6.70	40.0	ug/L
108-90-7	Chlorobenzene	40.0	UD	6.60	40.0	ug/L
100-41-4	Ethyl Benzene	52.0	D	7.30	40.0	ug/L
1330-20-7	Total Xylenes	218	D	20.4	120	ug/L
100-42-5	Styrene	40.0	UD	6.50	40.0	ug/L
75-25-2	Bromoform	40.0	UD	7.60	40.0	ug/L
98-82-8	Isopropylbenzene	200	D	9.20	40.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	40.0	UD	11.7	40.0	ug/L
103-65-1	n-propylbenzene	360	D	9.60	40.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	90.8	D	9.90	40.0	ug/L
98-06-6	tert-Butylbenzene	36.4	JD	10.3	40.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	2000	D	8.00	40.0	ug/L
135-98-8	sec-Butylbenzene	150	D	9.00	40.0	ug/L
541-73-1	1,3-Dichlorobenzene	40.0	UD	7.80	40.0	ug/L
106-46-7	1,4-Dichlorobenzene	40.0	UD	7.90	40.0	ug/L
104-51-8	n-Butylbenzene	93.2	D	7.60	40.0	ug/L
95-50-1	1,2-Dichlorobenzene	40.0	UD	7.50	40.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	40.0	UD	19.0	40.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	40.0	UD	12.1	40.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	40.0	UD	13.9	40.0	ug/L
123-91-1	1,4-Dioxane	4000	UD	280	4000	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.5		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		92 - 112	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.9		83 - 123	114%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	62500	5.629			
540-36-3	1,4-Difluorobenzene	114000	6.829			

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-3RDL	SDG No.:	M1785
Lab Sample ID:	M1785-14DL	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021573.D	40		03/29/21 13:42	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
3114-55-4	Chlorobenzene-d5	121000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	59500	12.059			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021573.D
Acq On : 29 Mar 2021 13:42
Operator : JC/MD
Sample : M1785-14DL 40X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-3RDL

Manual Integrations APPROVED
MMDadoda
3/31/2021 6:28:25 PM

Quant Time: Mar 30 03:27:02 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	62545	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.829	114	114308	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.094	117	121053	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	59501	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.029	65	53558	51.47	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.94%			
35) Dibromofluoromethane	5.464	113	41063	50.57	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.14%			
50) Toluene-d8	8.694	98	145889	50.42	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.84%			
62) 4-Bromofluorobenzene	11.118	95	64057	56.94	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 113.88%			
Target Compounds						Qvalue
39) Methylcyclohexane	7.429	83	547	0.44	ug/l #	83
67) Ethyl Benzene	10.235	91	5750	1.30	ug/l	100
68) m/p-Xylenes	10.341	106	7938	5.03	ug/l	89
69) o-Xylene	10.683	106	711	0.46	ug/l	81
73) Isopropylbenzene	11.000	105	20943	5.01	ug/l	99
78) n-propylbenzene	11.342	91	43954	8.90	ug/l	97
80) 1,3,5-Trimethylbenzene	11.489	105	8097	2.27	ug/l	97
83) tert-Butylbenzene	11.753	119	3160	0.91	ug/l	84
84) 1,2,4-Trimethylbenzene	11.789	105	177928	49.42	ug/l	98
85) sec-Butylbenzene	11.930	105	15344	3.83	ug/l	98
86) p-Isopropyltoluene	12.047	119	3780m	1.04	ug/l	
89) n-Butylbenzene	12.371	91	7801	2.33	ug/l #	71

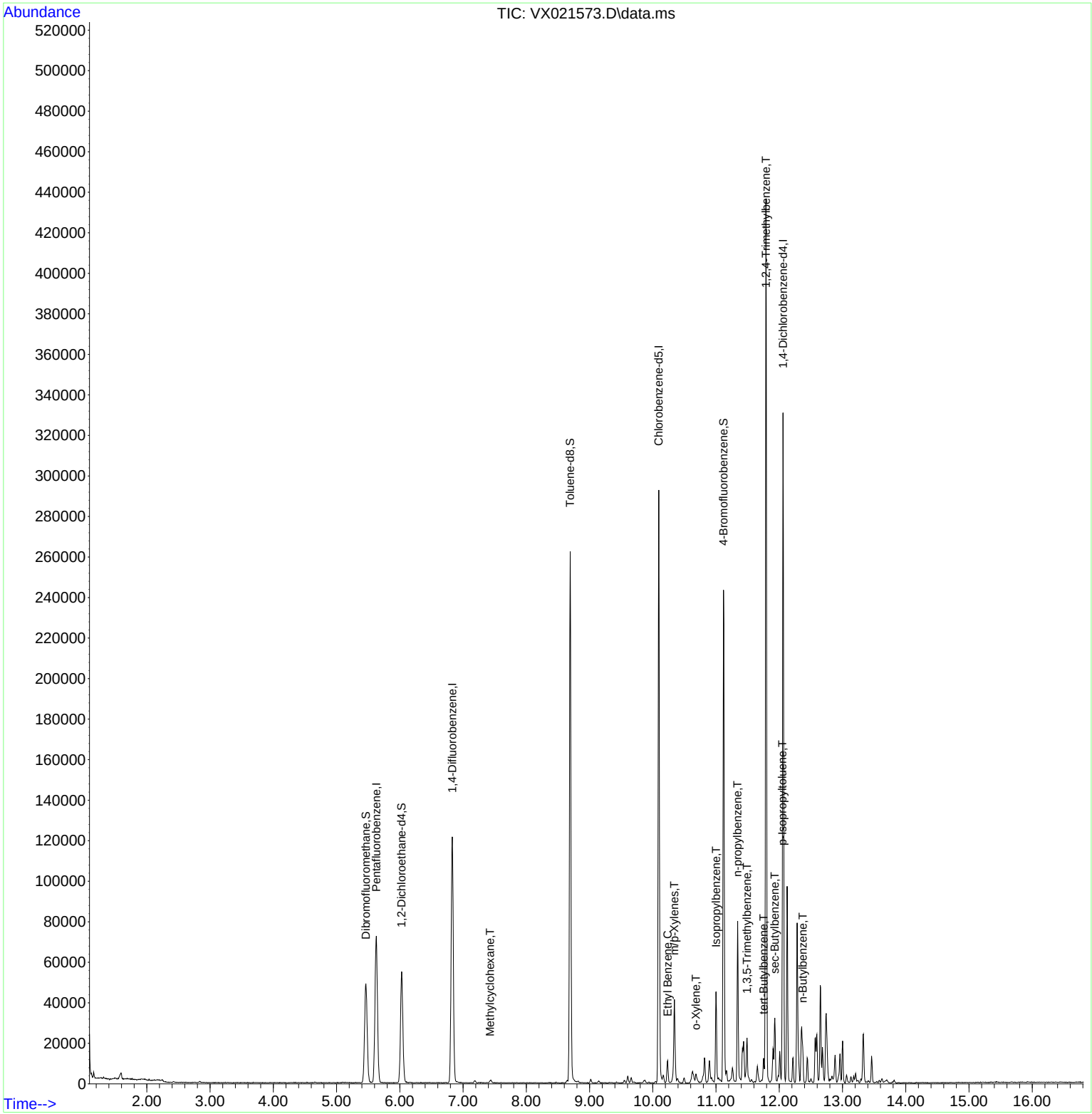
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021573.D
Acq On : 29 Mar 2021 13:42
Operator : JC/MD
Sample : M1785-14DL 40X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 30 03:27:02 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

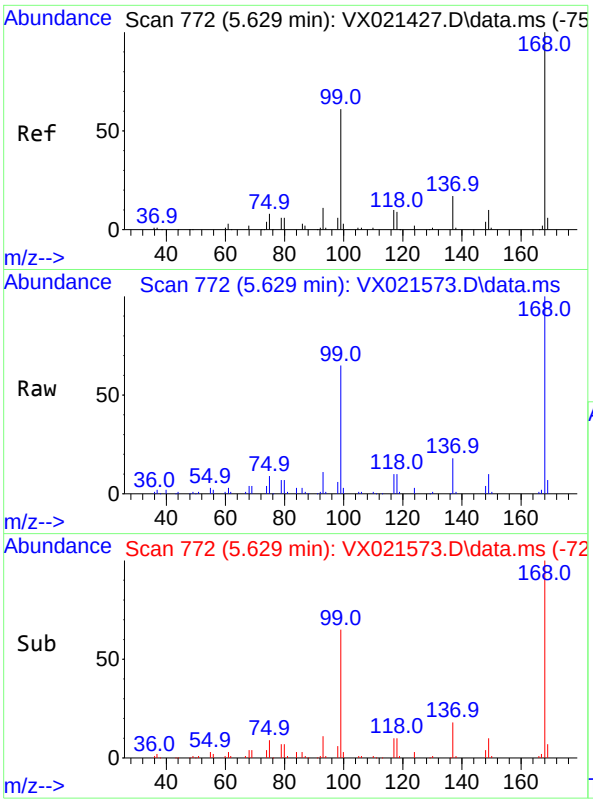
Instrument :
MSVOA_X
ClientSampleId :
MW-3RDL

Manual Integrations APPROVED
MMDadoda
3/31/2021 6:28:25 PM



Instrument :
MSVOA_X
ClientSampleId :
MW-3RDL

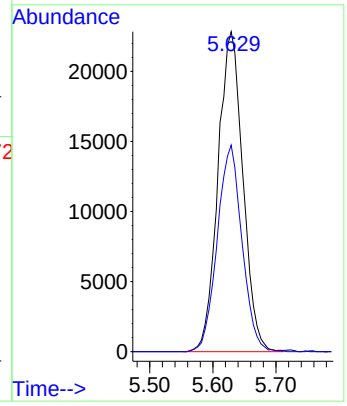
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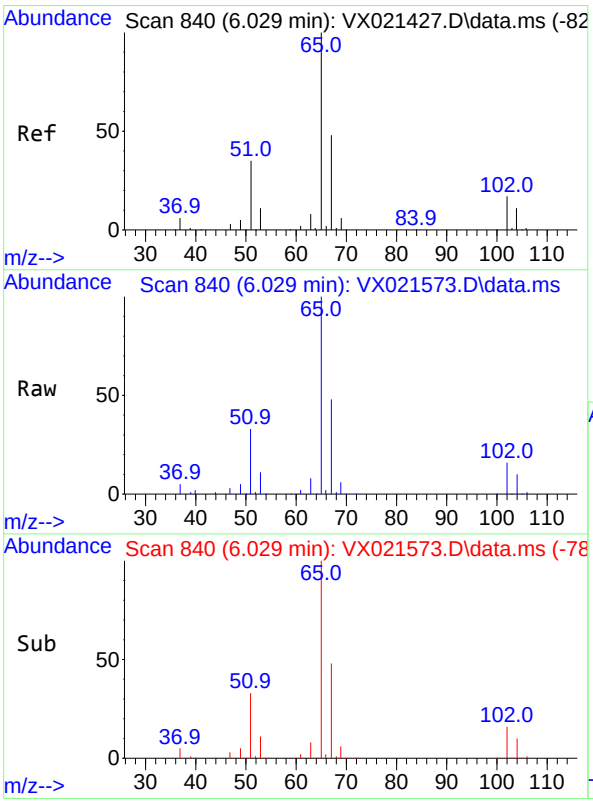


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 772
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

Tgt Ion:168 Resp: 62545

Ion	Ratio	Lower	Upper
168	100		
99	64.5	45.8	68.6

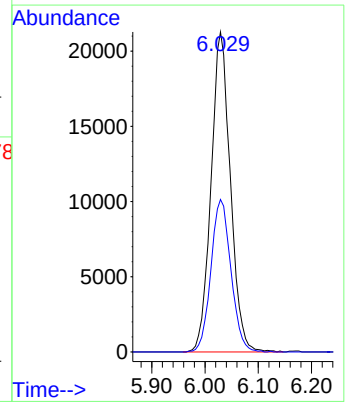




#33
1,2-Dichloroethane-d4
Concen: 51.47 ug/l
RT: 6.029 min Scan# 840
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

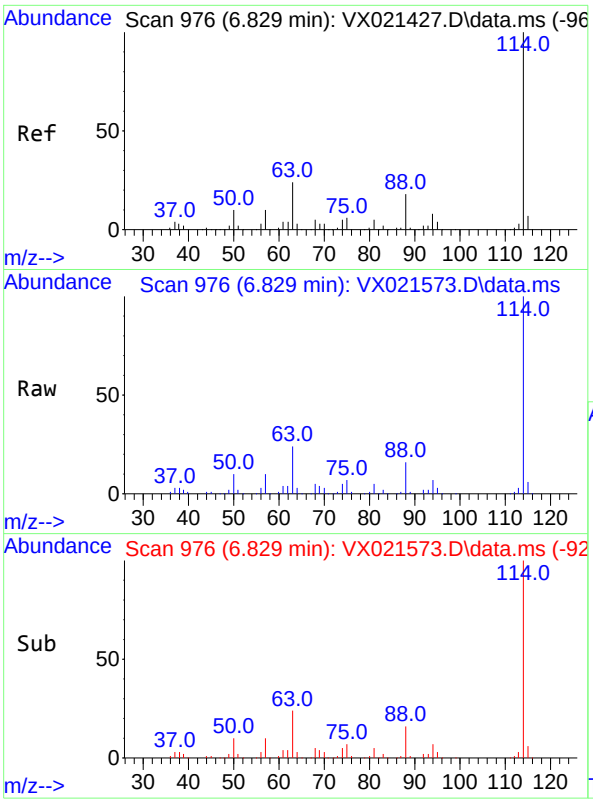
Tgt Ion: 65 Resp: 53558

Ion	Ratio	Lower	Upper
65	100		
67	49.3	0.0	105.4



Instrument :
MSVOA_X
ClientSampleId :
MW-3RDL

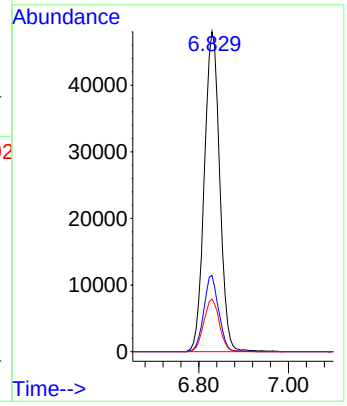
Manual Integrations APPROVED
MMDadoda
3/31/2021 6:28:25 PM

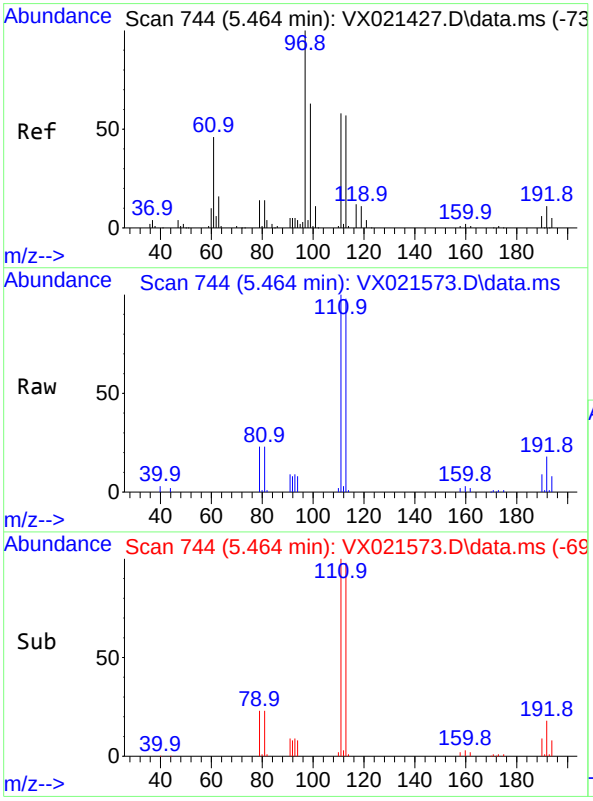


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

Tgt Ion:114 Resp: 114308

Ion	Ratio	Lower	Upper
114	100		
63	23.8	0.0	40.8
88	16.4	0.0	32.8

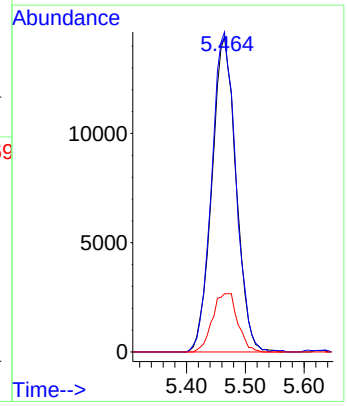




#35
Dibromofluoromethane
Concen: 50.57 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

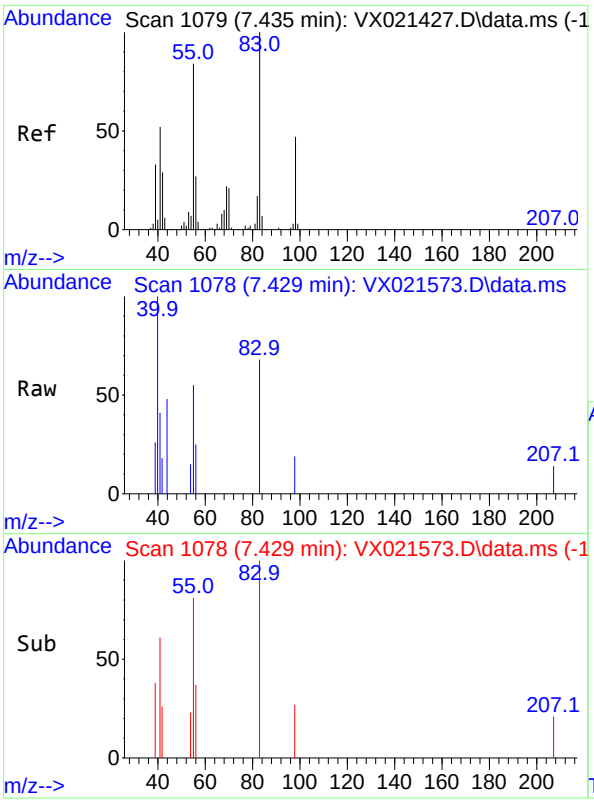
Tgt Ion:113 Resp: 41063

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.9	122.9
192	19.3	16.7	25.1



Instrument :
MSVOA_X
ClientSampleId :
MW-3RDL

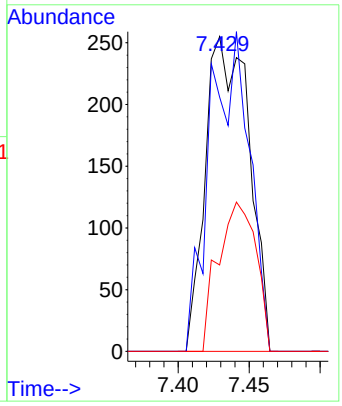
Manual Integrations APPROVED
MMDadoda
3/31/2021 6:28:25 PM

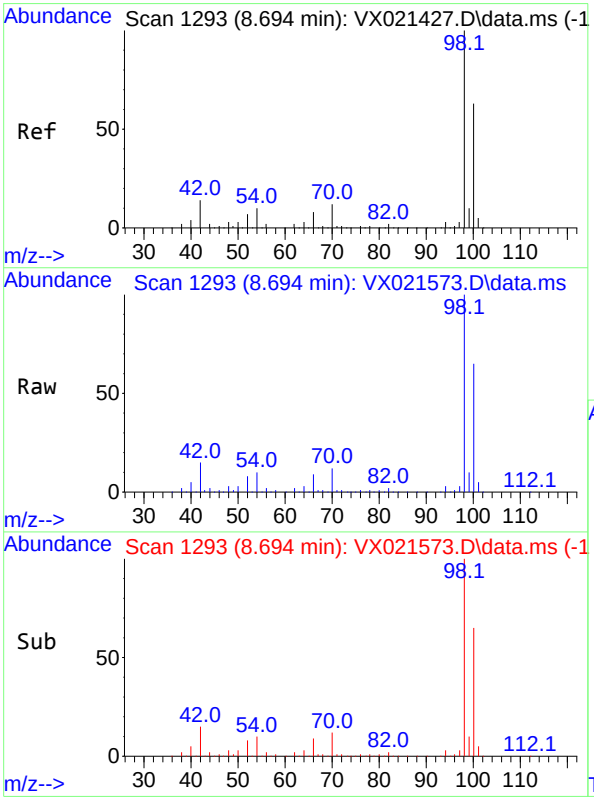


#39
Methylcyclohexane
Concen: 0.44 ug/l
RT: 7.429 min Scan# 1078
Delta R.T. -0.006 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

Tgt Ion: 83 Resp: 547

Ion	Ratio	Lower	Upper
83	100		
55	80.8	58.9	88.3
98	27.5	38.1	57.1#

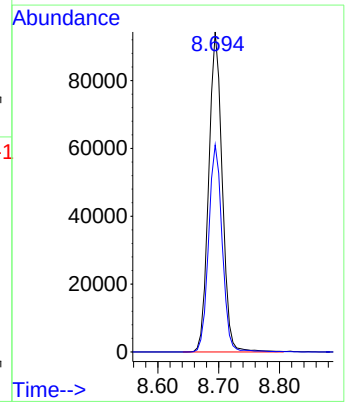




#50
Toluene-d8
Concen: 50.42 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

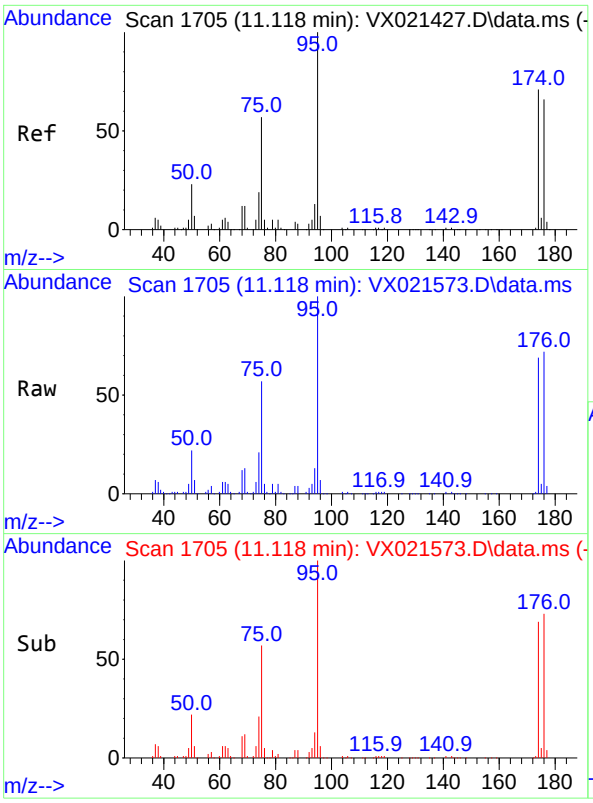
Tgt Ion: 98 Resp: 145889

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
MW-3RDL

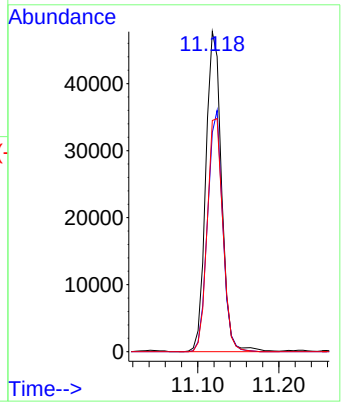
Manual Integrations APPROVED
MMDadoda
3/31/2021 6:28:25 PM

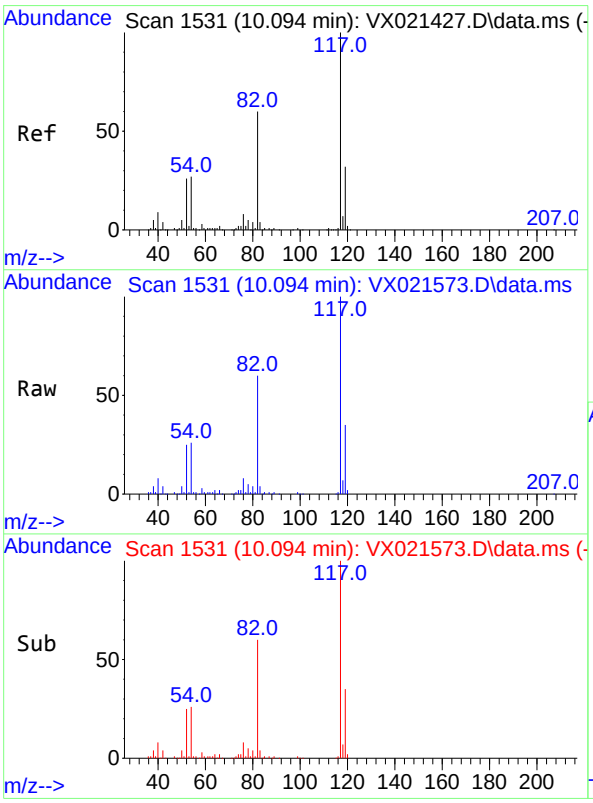


#62
4-Bromofluorobenzene
Concen: 56.94 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

Tgt Ion: 95 Resp: 64057

Ion	Ratio	Lower	Upper
95	100		
174	72.0	0.0	154.6
176	72.1	0.0	155.8

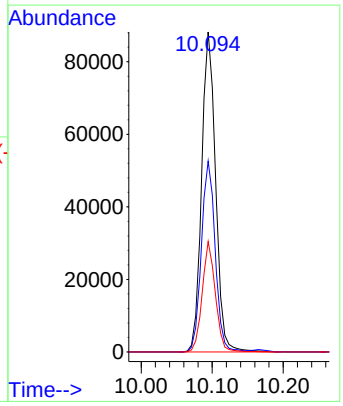




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

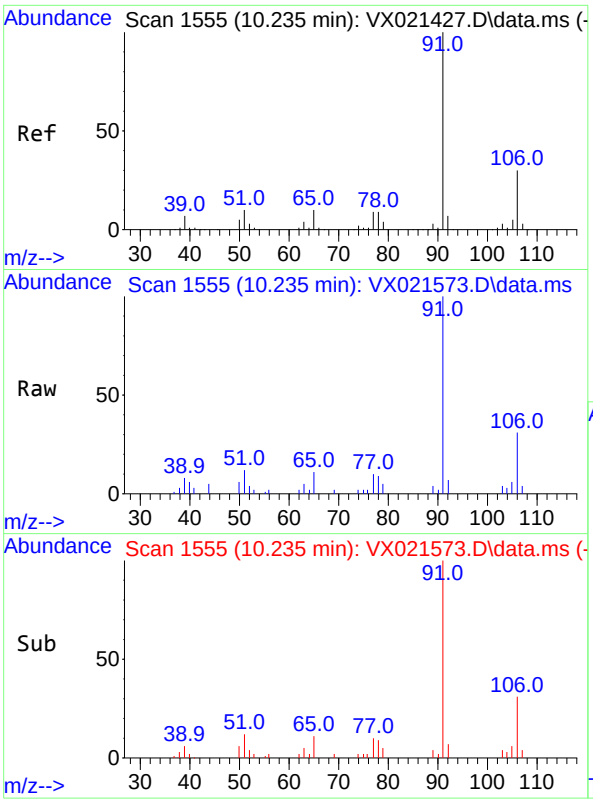
Tgt Ion:117 Resp: 121053

Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.4	71.2
119	34.5	26.6	39.8



Instrument :
MSVOA_X
ClientSampleId :
MW-3RDL

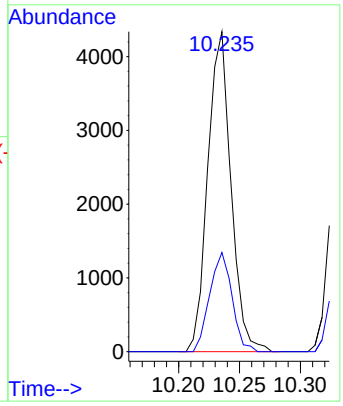
Manual Integrations APPROVED
MMDadoda
3/31/2021 6:28:25 PM

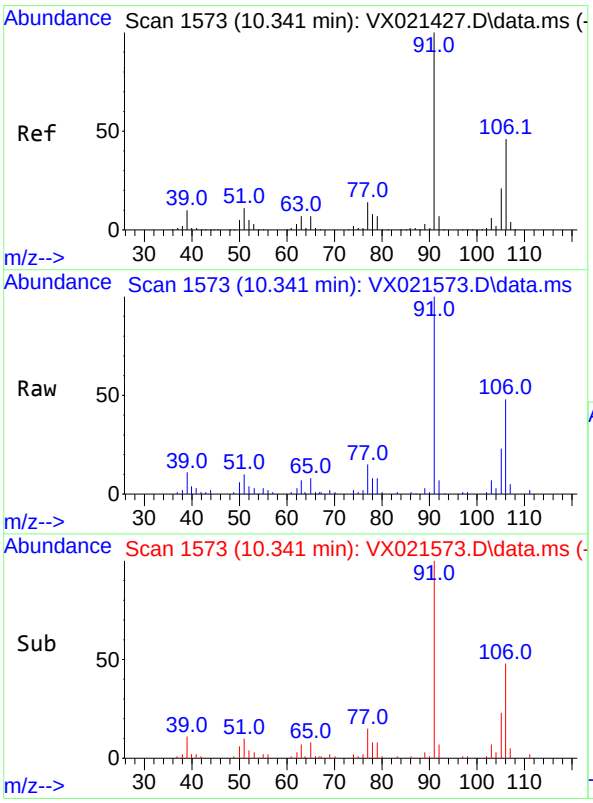


#67
Ethyl Benzene
Concen: 1.30 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

Tgt Ion: 91 Resp: 5750

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.6	37.0

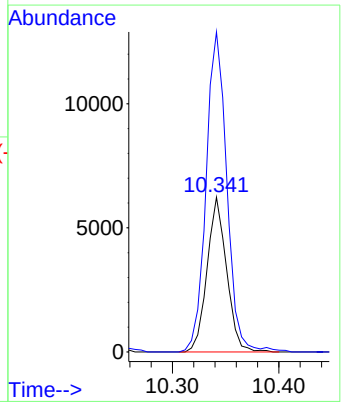




#68
m/p-Xylenes
Concen: 5.03 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

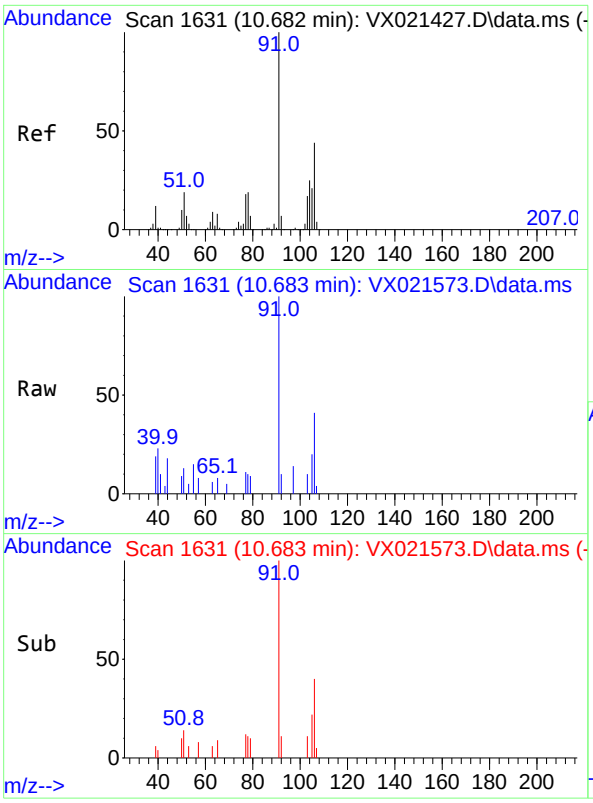
Tgt Ion:106 Resp: 7938

Ion	Ratio	Lower	Upper
106	100		
91	219.8	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
MW-3RDL

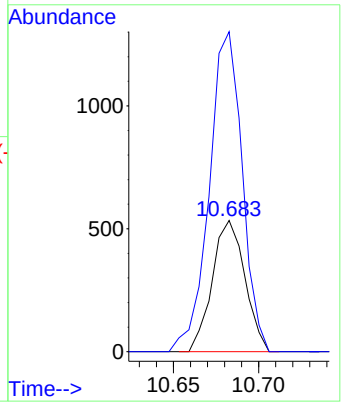
Manual Integrations APPROVED
MMDadoda
3/31/2021 6:28:25 PM

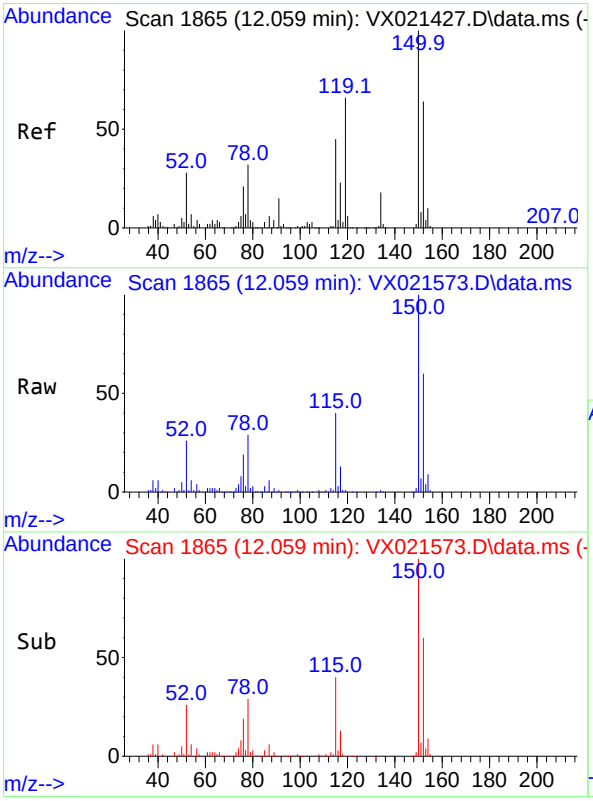


#69
o-Xylene
Concen: 0.46 ug/l
RT: 10.683 min Scan# 1631
Delta R.T. 0.001 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

Tgt Ion:106 Resp: 711

Ion	Ratio	Lower	Upper
106	100		
91	246.4	108.1	324.2

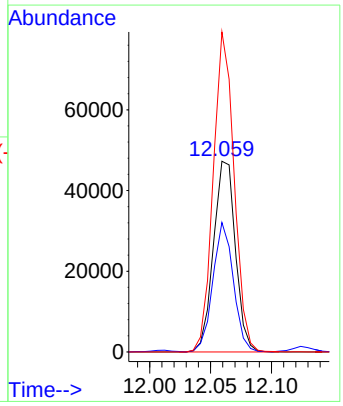




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

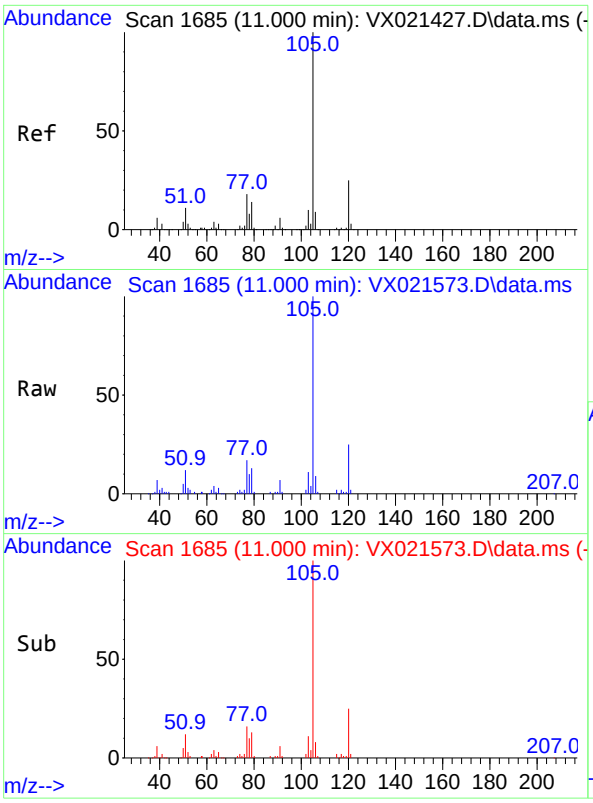
Tgt Ion:152 Resp: 59501

Ion	Ratio	Lower	Upper
152	100		
115	63.3	41.1	123.3
150	158.9	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
MW-3RDL

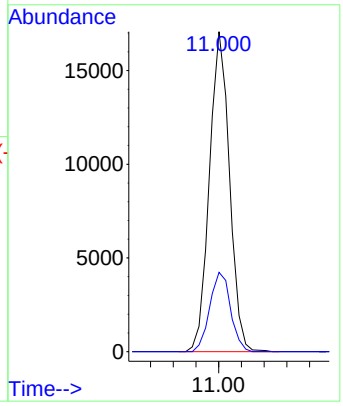
Manual Integrations APPROVED
MMDadoda
3/31/2021 6:28:25 PM

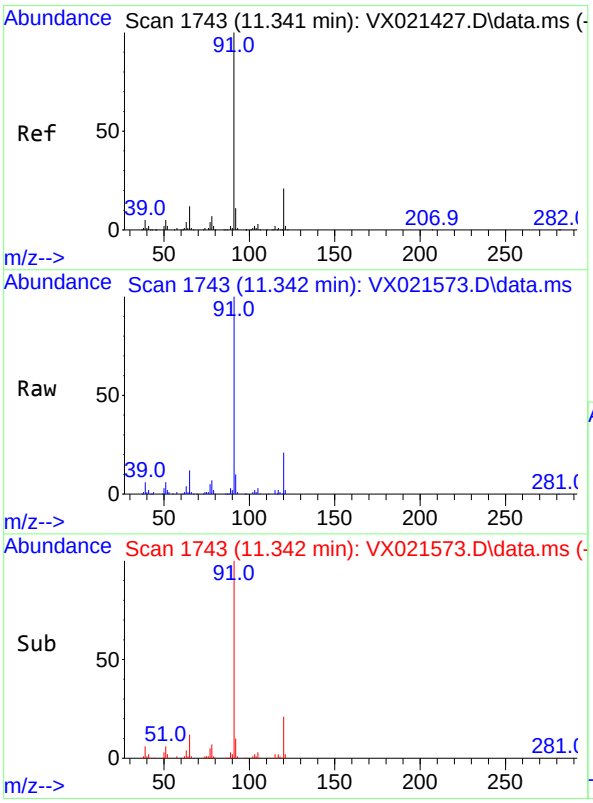


#73
Isopropylbenzene
Concen: 5.01 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

Tgt Ion:105 Resp: 20943

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.6

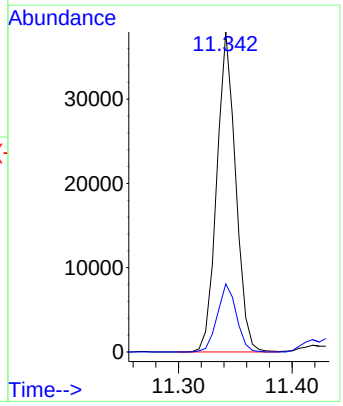




#78
n-propylbenzene
Concen: 8.90 ug/l
RT: 11.342 min Scan# 1743
Delta R.T. 0.001 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

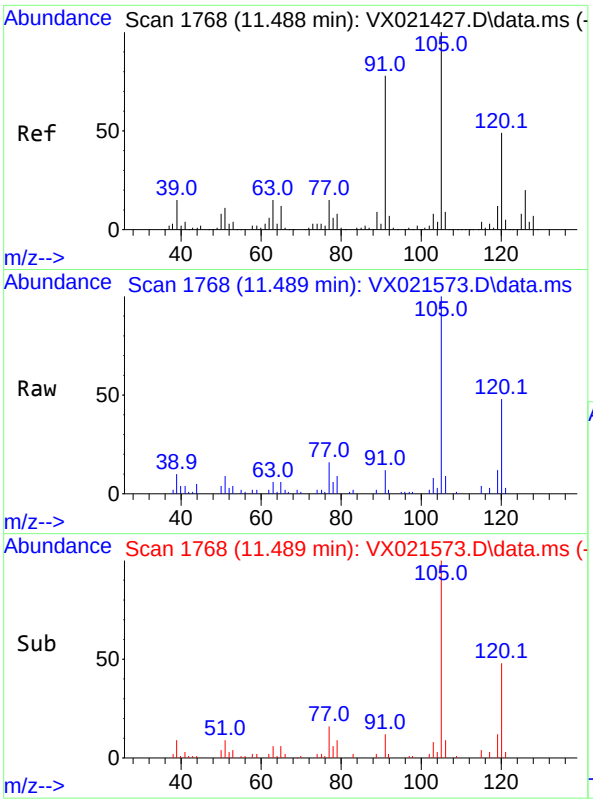
Tgt Ion: 91 Resp: 43954

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
MW-3RDL

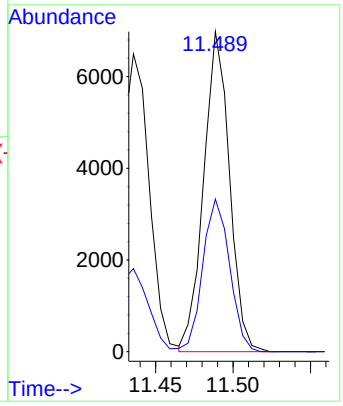
Manual Integrations APPROVED
MMDadoda
3/31/2021 6:28:25 PM

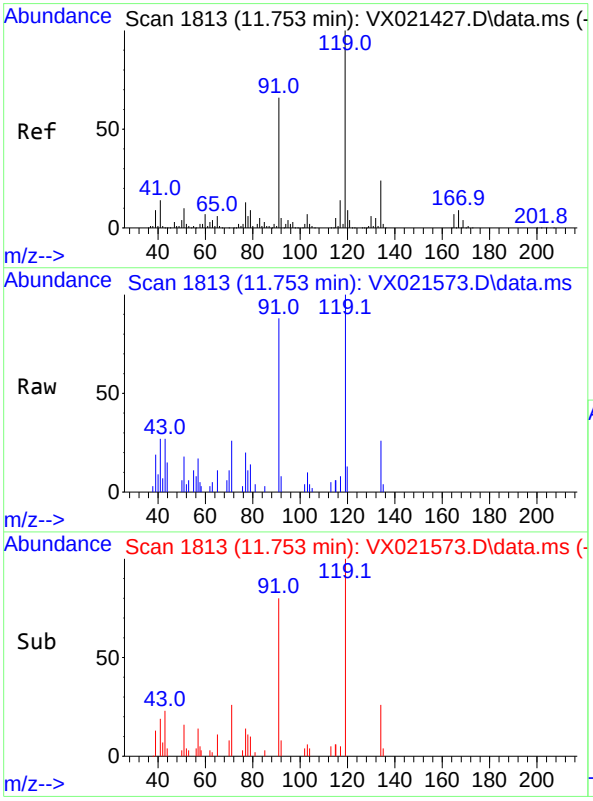


#80
1,3,5-Trimethylbenzene
Concen: 2.27 ug/l
RT: 11.489 min Scan# 1768
Delta R.T. 0.001 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

Tgt Ion:105 Resp: 8097

Ion	Ratio	Lower	Upper
105	100		
120	49.7	23.8	71.5

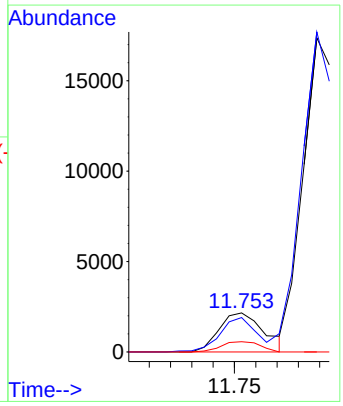




#83
tert-Butylbenzene
Concen: 0.91 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

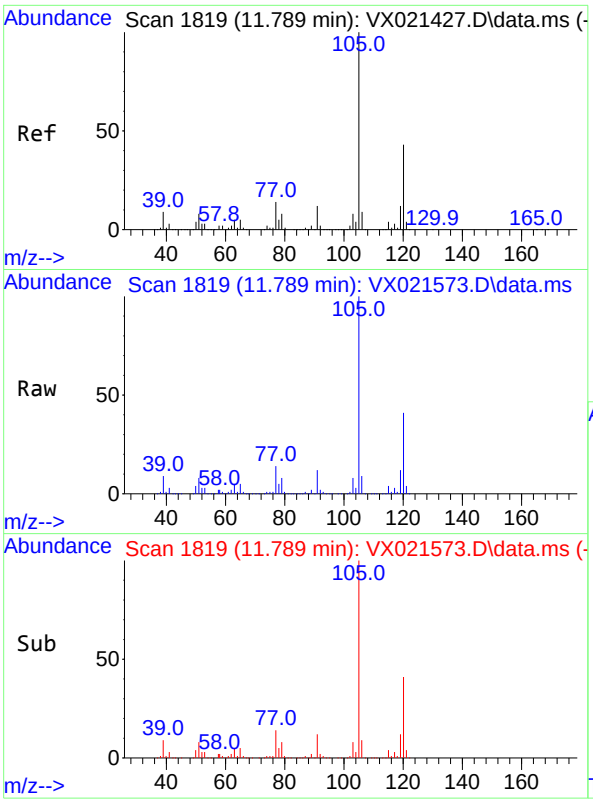
Tgt Ion:119 Resp: 3160

Ion	Ratio	Lower	Upper
119	100		
91	71.6	27.9	83.7
134	22.9	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
MW-3RDL

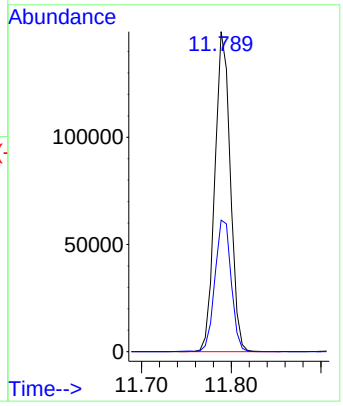
Manual Integrations APPROVED
MMDadoda
3/31/2021 6:28:25 PM

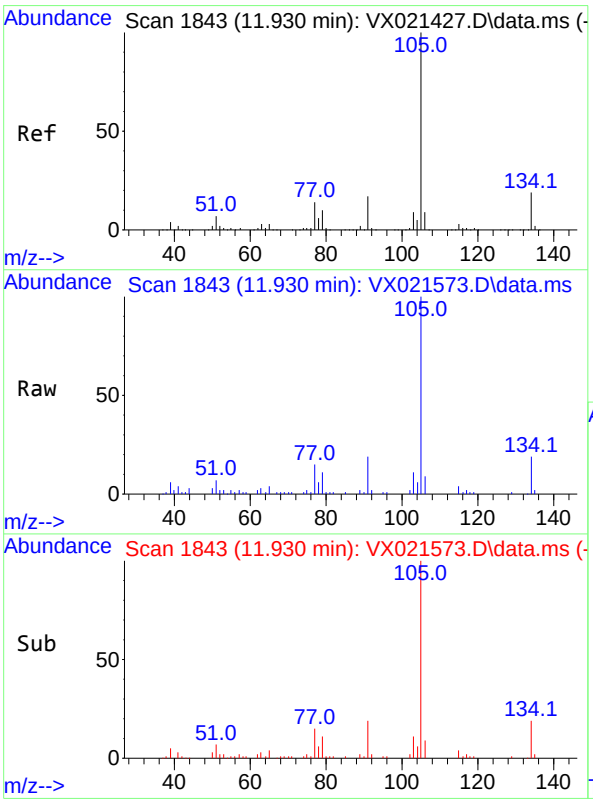


#84
1,2,4-Trimethylbenzene
Concen: 49.42 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

Tgt Ion:105 Resp: 177928

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.4	67.3

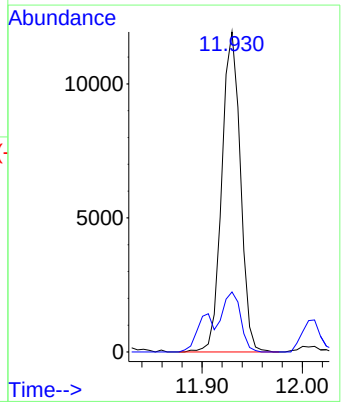




#85
sec-Butylbenzene
Concen: 3.83 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

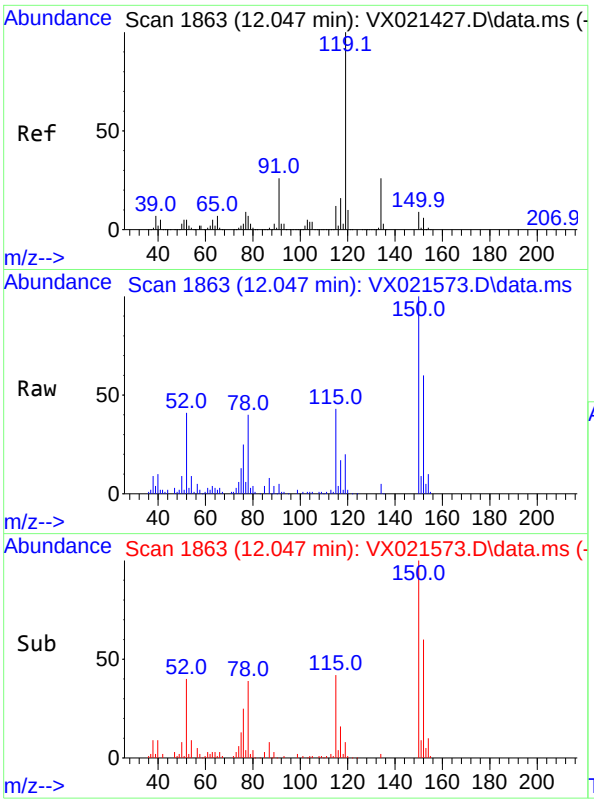
Tgt Ion:105 Resp: 15344

Ion	Ratio	Lower	Upper
105	100		
134	18.8	10.0	29.8



Instrument :
MSVOA_X
ClientSampleId :
MW-3RDL

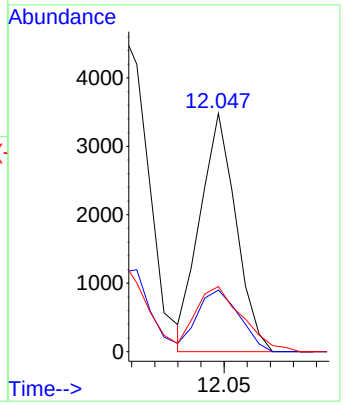
Manual Integrations APPROVED
MMDadoda
3/31/2021 6:28:25 PM

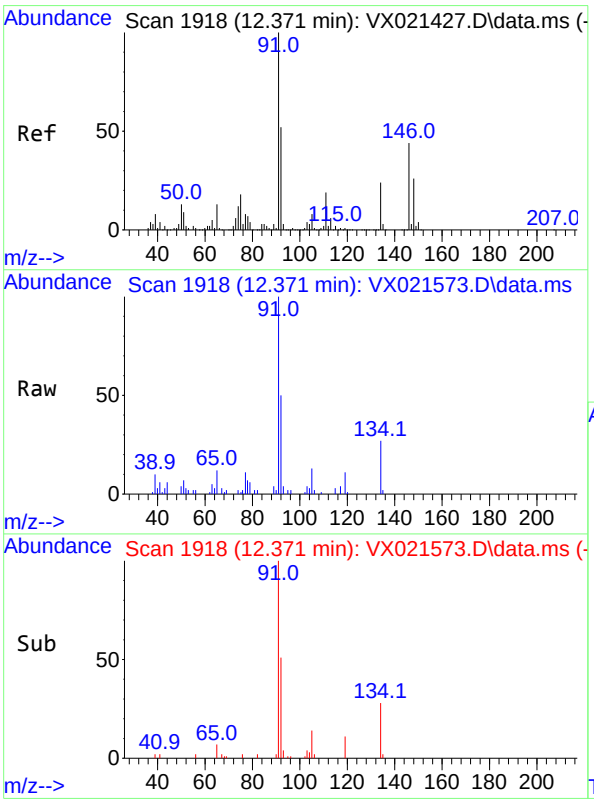


#86
p-Isopropyltoluene
Concen: 1.04 ug/l m
RT: 12.047 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

Tgt Ion:119 Resp: 3780

Ion	Ratio	Lower	Upper
119	100		
134	40.8	12.9	38.7#
91	44.6	11.7	35.0#

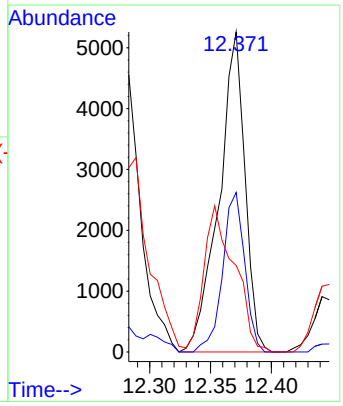




#89
n-Butylbenzene
Concen: 2.33 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021573.D
Acq: 29 Mar 2021 13:42

Tgt Ion: 91 Resp: 7801

Ion	Ratio	Lower	Upper
91	100		
92	42.4	27.4	82.0
134	53.7	13.2	39.5#



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

Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-4	SDG No.:	M1785
Lab Sample ID:	M1785-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021574.D	20		03/29/21 14:05	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.0	U	4.60	20.0	ug/L
74-87-3	Chloromethane	20.0	U	4.00	20.0	ug/L
75-01-4	Vinyl Chloride	20.0	U	3.90	20.0	ug/L
74-83-9	Bromomethane	100	U	17.3	100	ug/L
75-00-3	Chloroethane	20.0	U	7.00	20.0	ug/L
75-69-4	Trichlorofluoromethane	20.0	U	5.00	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0	U	4.30	20.0	ug/L
75-35-4	1,1-Dichloroethene	20.0	U	5.20	20.0	ug/L
67-64-1	Acetone	100	U	32.2	100	ug/L
75-15-0	Carbon Disulfide	20.0	U	5.00	20.0	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0	U	4.40	20.0	ug/L
79-20-9	Methyl Acetate	20.0	U	9.40	20.0	ug/L
75-09-2	Methylene Chloride	20.0	U	3.60	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	20.0	U	3.80	20.0	ug/L
75-34-3	1,1-Dichloroethane	20.0	U	4.20	20.0	ug/L
110-82-7	Cyclohexane	100	U	26.1	100	ug/L
78-93-3	2-Butanone	100	U	17.9	100	ug/L
56-23-5	Carbon Tetrachloride	20.0	U	5.50	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	20.0	U	4.40	20.0	ug/L
74-97-5	Bromochloromethane	20.0	U	5.20	20.0	ug/L
67-66-3	Chloroform	20.0	U	5.30	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	20.0	U	3.90	20.0	ug/L
108-87-2	Methylcyclohexane	20.0	U	2.80	20.0	ug/L
71-43-2	Benzene	20.0	U	3.60	20.0	ug/L
107-06-2	1,2-Dichloroethane	20.0	U	5.00	20.0	ug/L
79-01-6	Trichloroethene	20.0	U	3.50	20.0	ug/L
78-87-5	1,2-Dichloropropane	20.0	U	3.40	20.0	ug/L
75-27-4	Bromodichloromethane	20.0	U	4.00	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	100	U	17.3	100	ug/L
108-88-3	Toluene	20.0	U	4.30	20.0	ug/L
10061-02-6	t-1,3-Dichloropropene	20.0	U	3.60	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0	U	3.30	20.0	ug/L

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

Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-4	SDG No.:	M1785
Lab Sample ID:	M1785-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021574.D	20		03/29/21 14:05	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	20.0	U	4.80	20.0	ug/L
591-78-6	2-Hexanone	100	U	18.4	100	ug/L
124-48-1	Dibromochloromethane	20.0	U	3.50	20.0	ug/L
106-93-4	1,2-Dibromoethane	20.0	U	3.30	20.0	ug/L
127-18-4	Tetrachloroethene	20.0	U	3.30	20.0	ug/L
108-90-7	Chlorobenzene	20.0	U	3.30	20.0	ug/L
100-41-4	Ethyl Benzene	110		3.60	20.0	ug/L
1330-20-7	Total Xylenes	68.8		10.2	60.0	ug/L
100-42-5	Styrene	20.0	U	3.30	20.0	ug/L
75-25-2	Bromoform	20.0	U	3.80	20.0	ug/L
98-82-8	Isopropylbenzene	100		4.60	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.0	U	5.90	20.0	ug/L
103-65-1	n-propylbenzene	170		4.80	20.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	39.0		4.90	20.0	ug/L
98-06-6	tert-Butylbenzene	16.0	J	5.20	20.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	1600		4.00	20.0	ug/L
135-98-8	sec-Butylbenzene	61.4		4.50	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	20.0	U	3.90	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	20.0	U	3.90	20.0	ug/L
104-51-8	n-Butylbenzene	40.4		3.80	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	20.0	U	3.80	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.0	U	9.50	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0	U	6.10	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.0	U	6.90	20.0	ug/L
123-91-1	1,4-Dioxane	2000	U	140	2000	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		78 - 117	102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.2		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.1		83 - 123	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	62600	5.623			
540-36-3	1,4-Difluorobenzene	114000	6.829			

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-4	SDG No.:	M1785
Lab Sample ID:	M1785-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021574.D	20		03/29/21 14:05	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
3114-55-4	Chlorobenzene-d5	118000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	58100	12.059			
TENTATIVE IDENTIFIED COMPOUNDS						
179601-23-1	m/p-Xylenes	68.8	J		10.3	ug/L
000611-14-3	Benzene, 1-ethyl-2-methyl-	100	J		11.7	ug/L
99-87-6	p-Isopropyltoluene	16.0	J		12.0	ug/L
000526-73-8	Benzene, 1,2,3-trimethyl-	950	J		12.1	ug/L
000496-11-7	Indane	350	J		12.3	ug/L
000527-84-4	o-Cymene	110	J		12.6	ug/L
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	170	J		12.7	ug/L
000824-90-8	1-Phenyl-1-butene	220	J		12.7	ug/L
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	110	J		13.0	ug/L
000934-10-1	3-Phenylbut-1-ene	150	J		13.3	ug/L
91-20-3	Naphthalene	100	J		13.8	ug/L

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-4

Manual Integrations APPROVED
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3/31/2021 12:06:54 PM

Quant Time: Mar 30 03:27:24 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.623	168	62597	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	114338	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	118030	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	58057	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.029	65	53166	51.05	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.10%				
35) Dibromofluoromethane	5.464	113	40807	50.24	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.48%				
50) Toluene-d8	8.694	98	145276	50.20	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.40%				
62) 4-Bromofluorobenzene	11.118	95	63160	56.13	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 112.26%				
Target Compounds							Qvalue
67) Ethyl Benzene	10.235	91	24267	5.61	ug/l		100
68) m/p-Xylenes	10.341	106	5299	3.44	ug/l		91
73) Isopropylbenzene	11.000	105	20719	5.08	ug/l		98
78) n-propylbenzene	11.341	91	41572	8.63	ug/l		98
80) 1,3,5-Trimethylbenzene	11.488	105	6790	1.95	ug/l		99
83) tert-Butylbenzene	11.753	119	2725	0.80	ug/l		80
84) 1,2,4-Trimethylbenzene	11.788	105	274528	78.14	ug/l		97
85) sec-Butylbenzene	11.930	105	12010	3.07	ug/l		91
86) p-Isopropyltoluene	12.047	119	2850m	0.80	ug/l		
89) n-Butylbenzene	12.371	91	6586	2.02	ug/l	#	71
95) Naphthalene	13.818	128	19299	5.10	ug/l		99

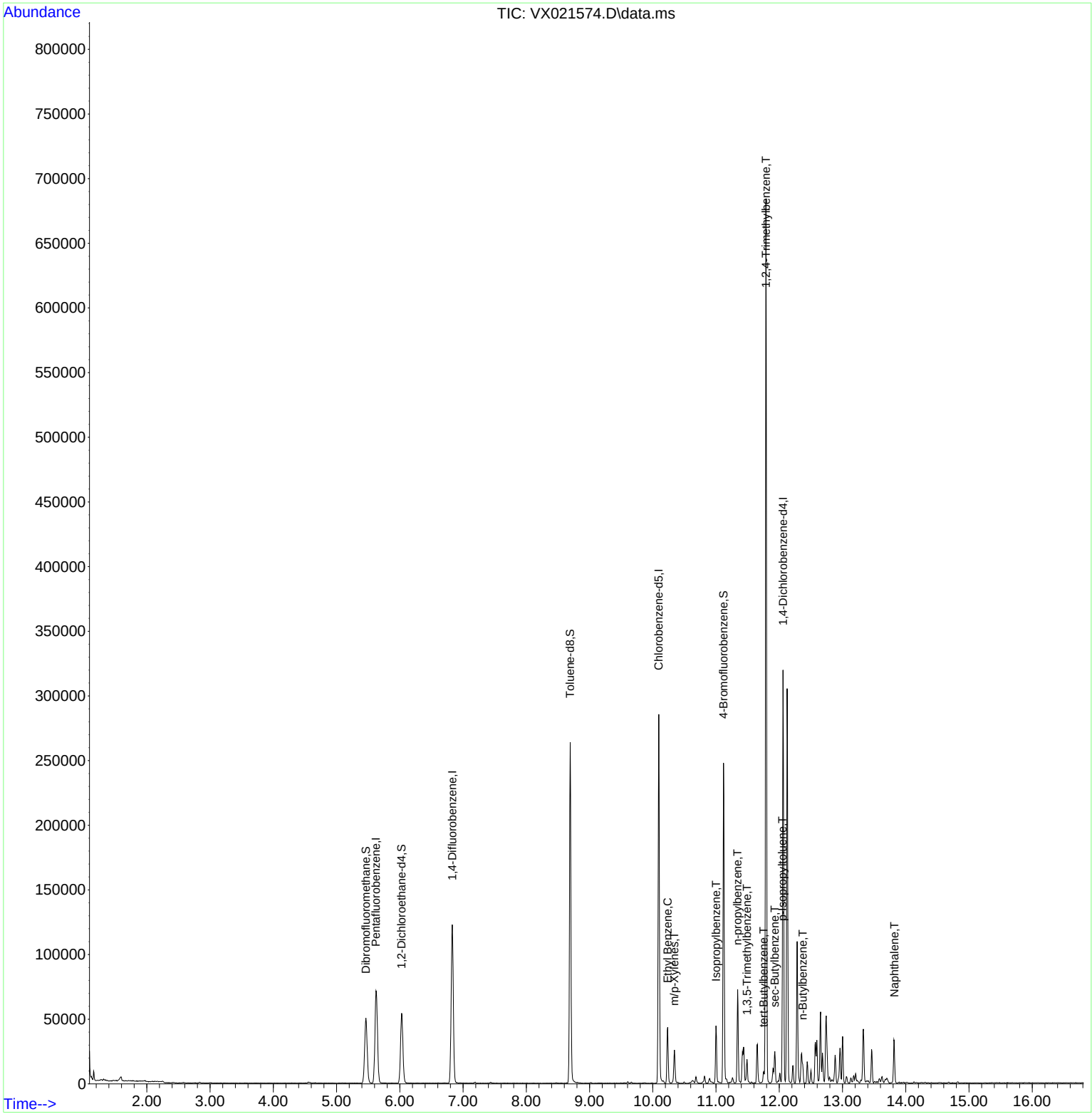
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 30 03:27:24 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

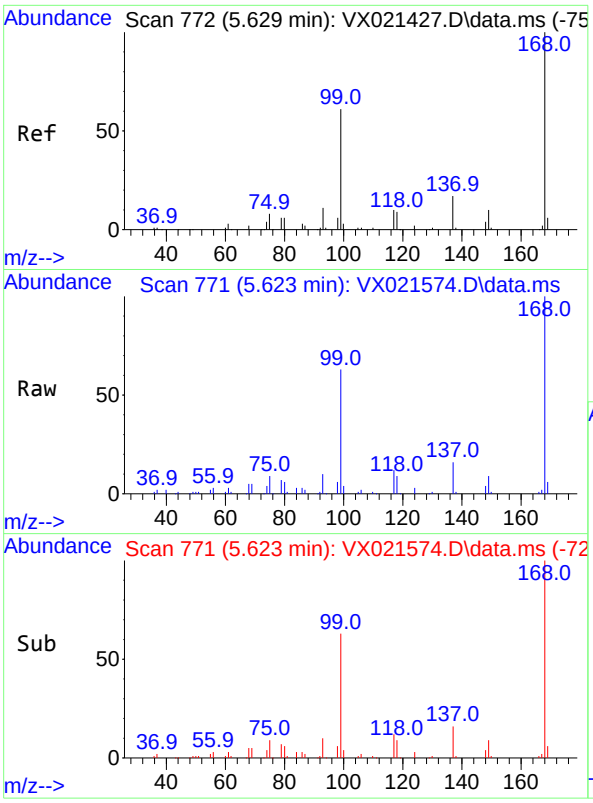
Instrument :
MSVOA_X
ClientSampleId :
MW-4

Manual Integrations APPROVED
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3/31/2021 12:06:54 PM



Instrument :
MSVOA_X
ClientSampleId :
MW-4

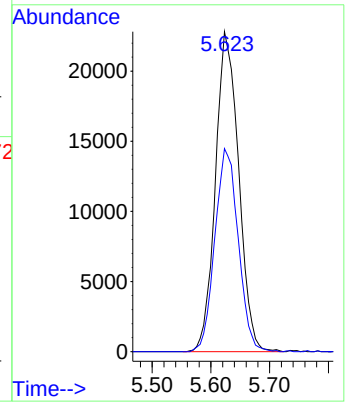
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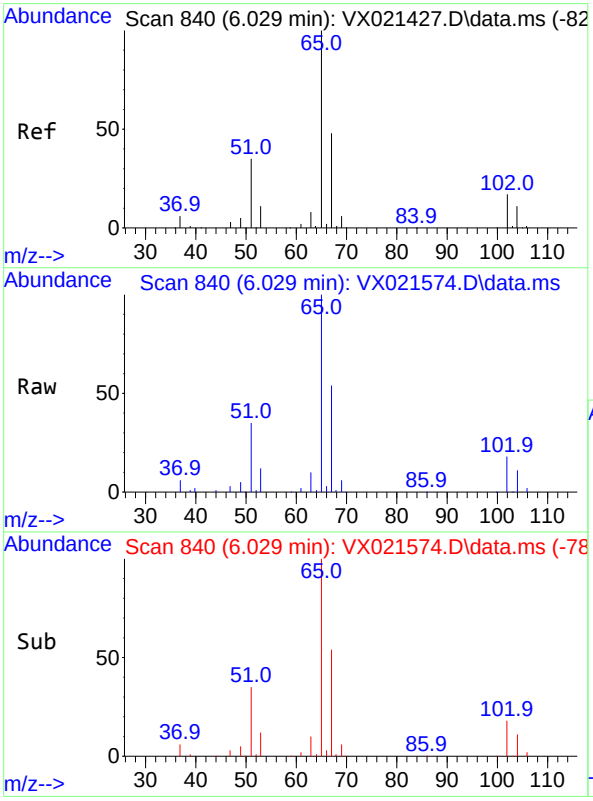


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 771
Delta R.T. -0.006 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

Tgt Ion:168 Resp: 62597

Ion	Ratio	Lower	Upper
168	100		
99	63.5	45.8	68.6

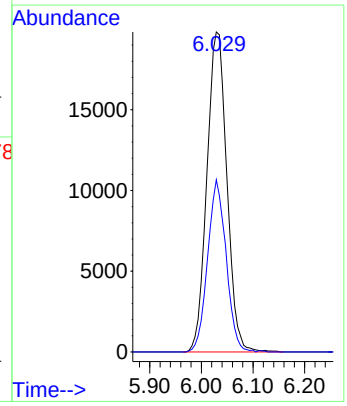




#33
1,2-Dichloroethane-d4
Concen: 51.05 ug/l
RT: 6.029 min Scan# 840
Delta R.T. -0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

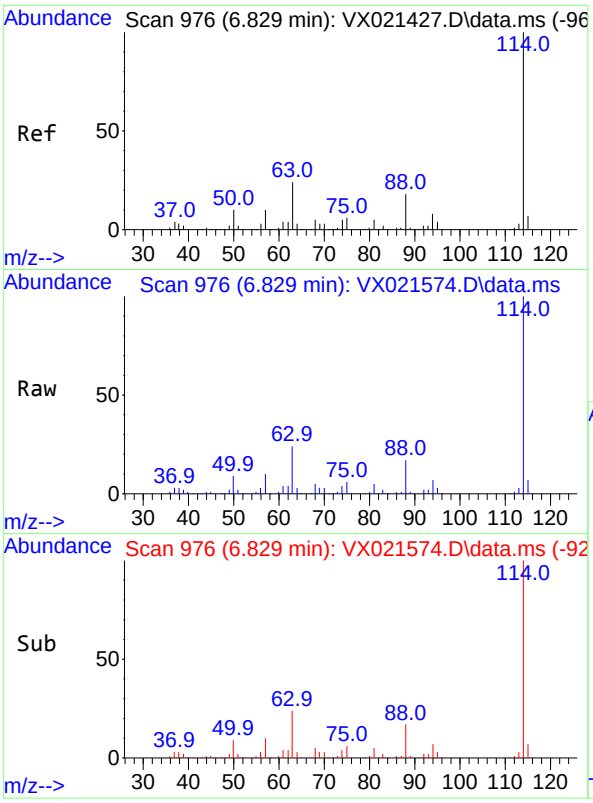
Tgt Ion: 65 Resp: 53166

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	105.4



Instrument :
MSVOA_X
ClientSampleId :
MW-4

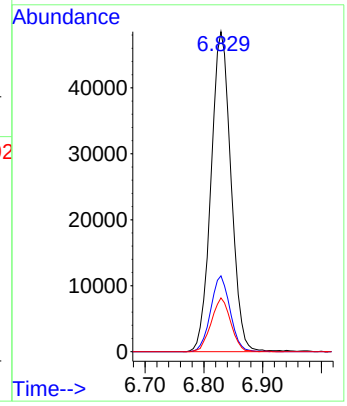
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:54 PM

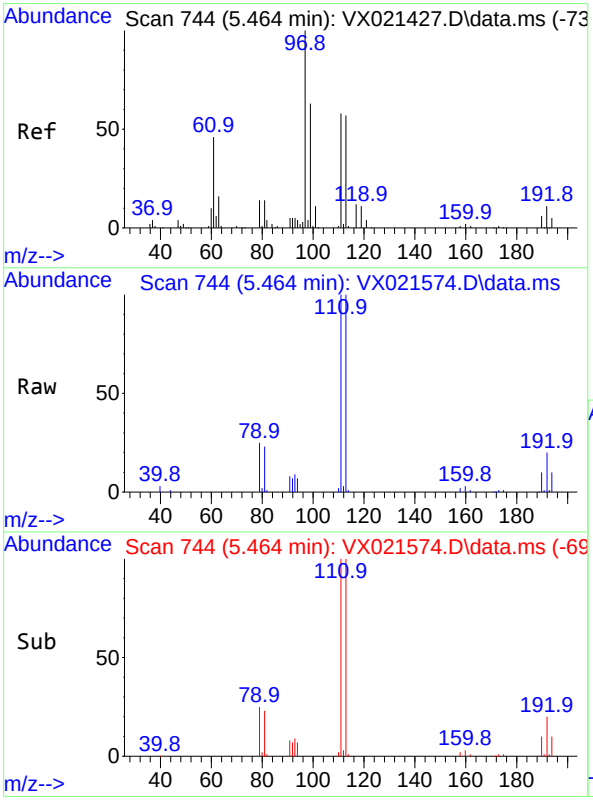


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. -0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

Tgt Ion:114 Resp: 114338

Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	40.8
88	16.8	0.0	32.8

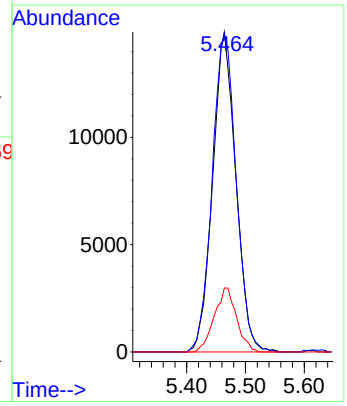




#35
Dibromofluoromethane
Concen: 50.24 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

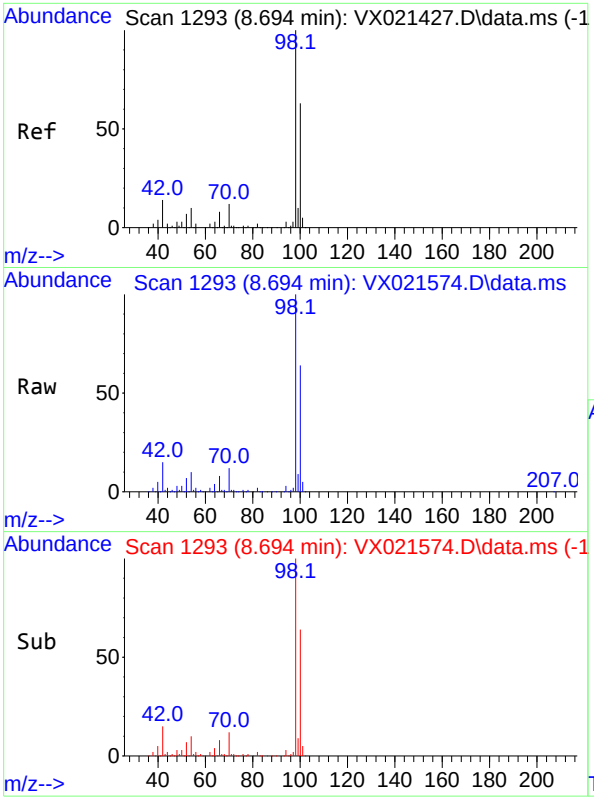
Tgt Ion:113 Resp: 40807

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.9	122.9
192	19.2	16.7	25.1



Instrument :
MSVOA_X
ClientSampleId :
MW-4

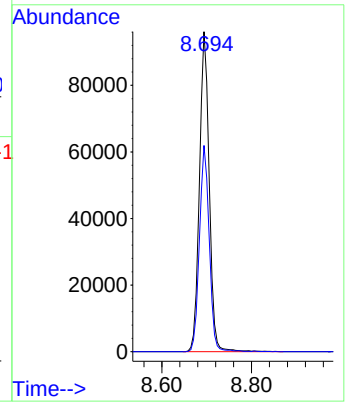
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:54 PM

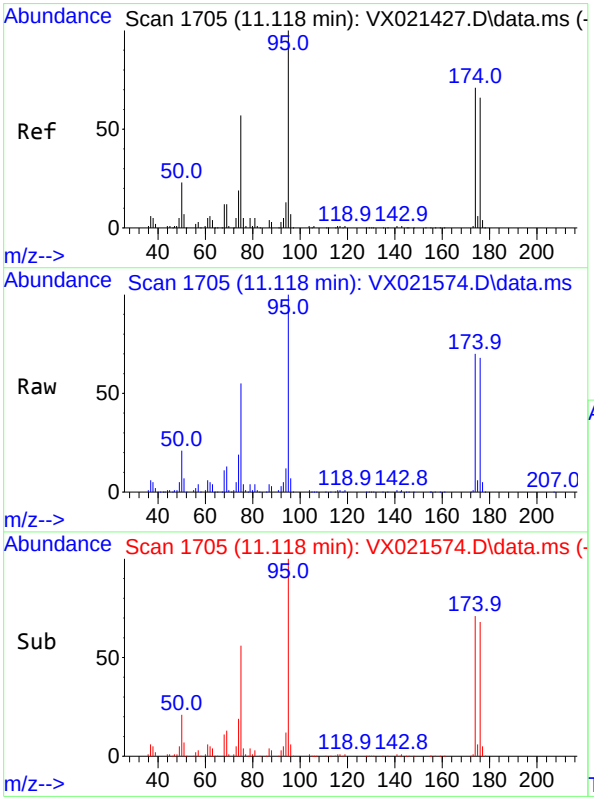


#50
Toluene-d8
Concen: 50.20 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. -0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

Tgt Ion: 98 Resp: 145276

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.9	77.9

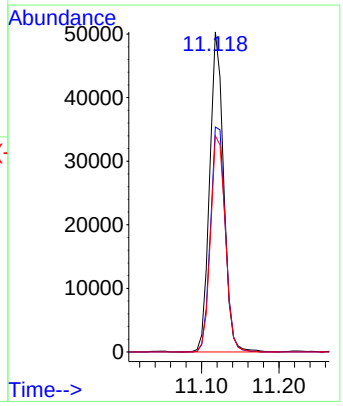




#62
4-Bromofluorobenzene
Concen: 56.13 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

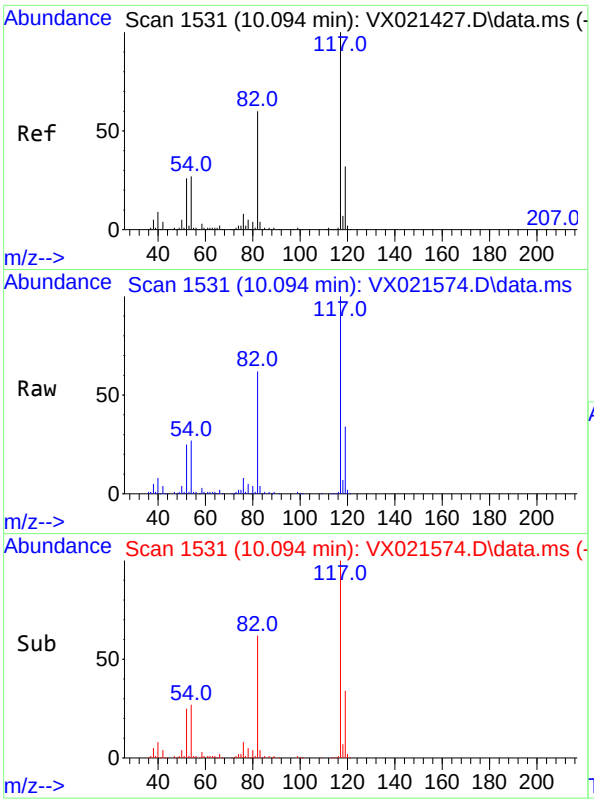
Tgt Ion: 95 Resp: 63160

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	154.6
176	71.3	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
MW-4

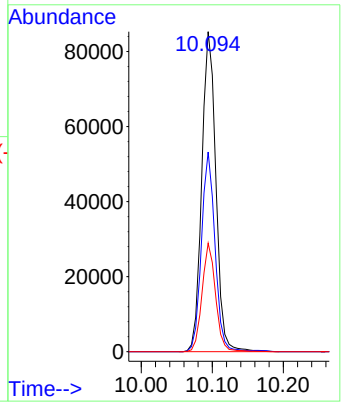
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:54 PM

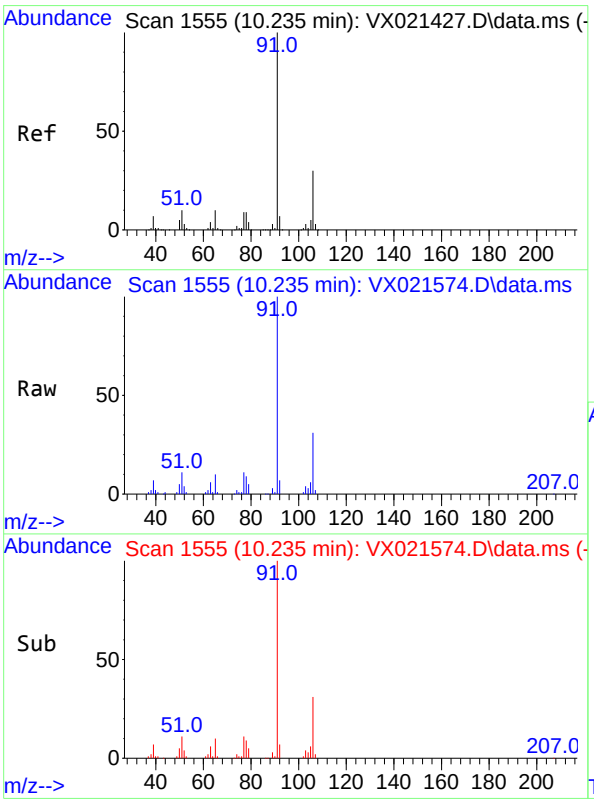


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

Tgt Ion:117 Resp: 118030

Ion	Ratio	Lower	Upper
117	100		
82	62.4	47.4	71.2
119	33.9	26.6	39.8

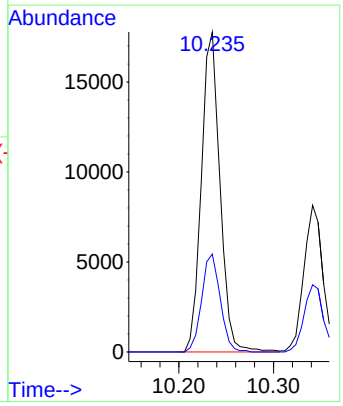




#67
Ethyl Benzene
Concen: 5.61 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

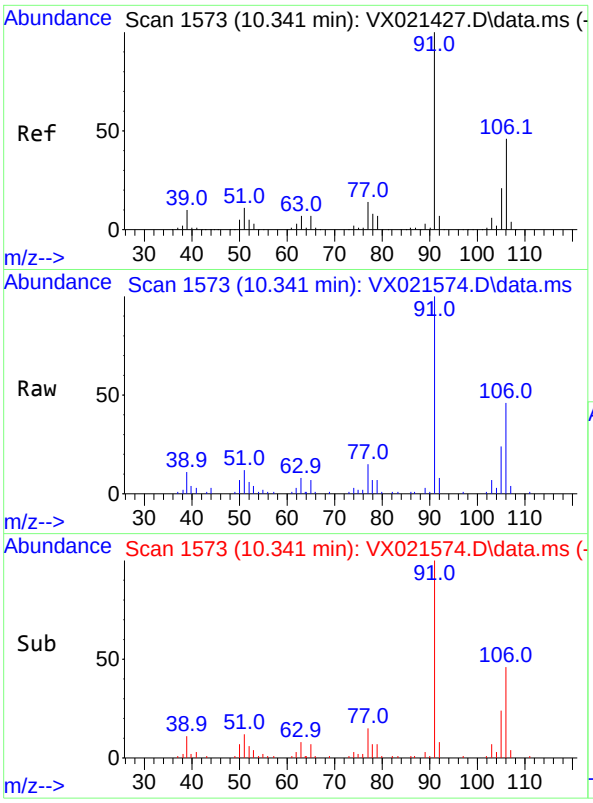
Tgt Ion: 91 Resp: 24267

Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
MW-4

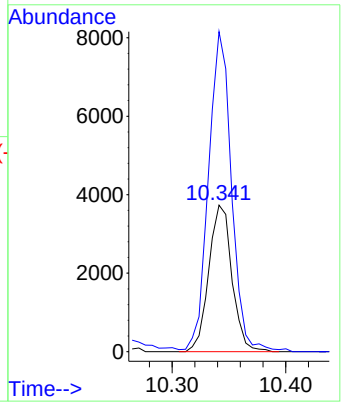
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:54 PM

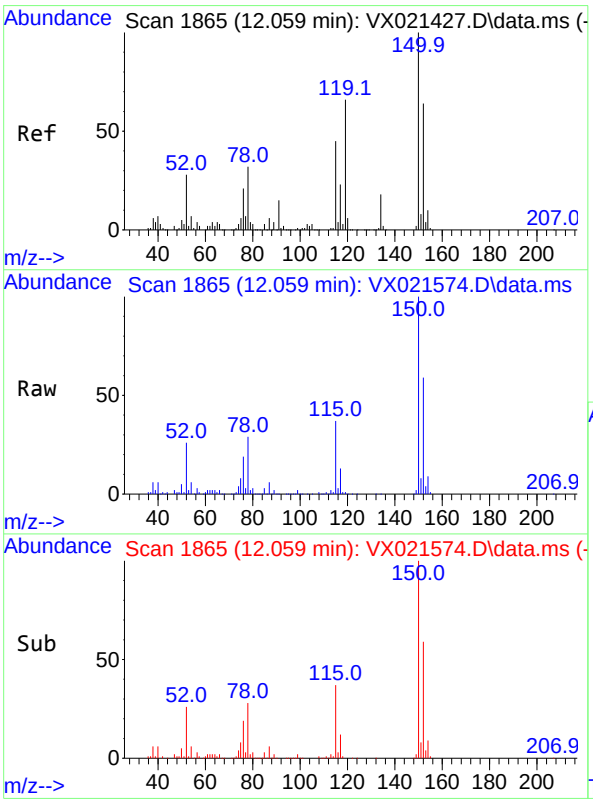


#68
m/p-Xylenes
Concen: 3.44 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

Tgt Ion:106 Resp: 5299

Ion	Ratio	Lower	Upper
106	100		
91	217.1	162.8	244.2

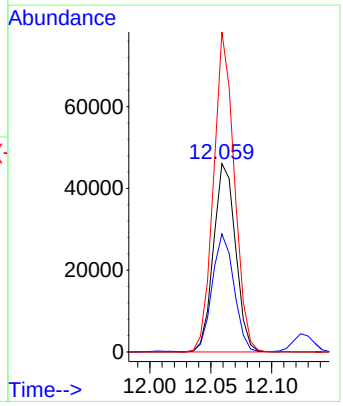




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

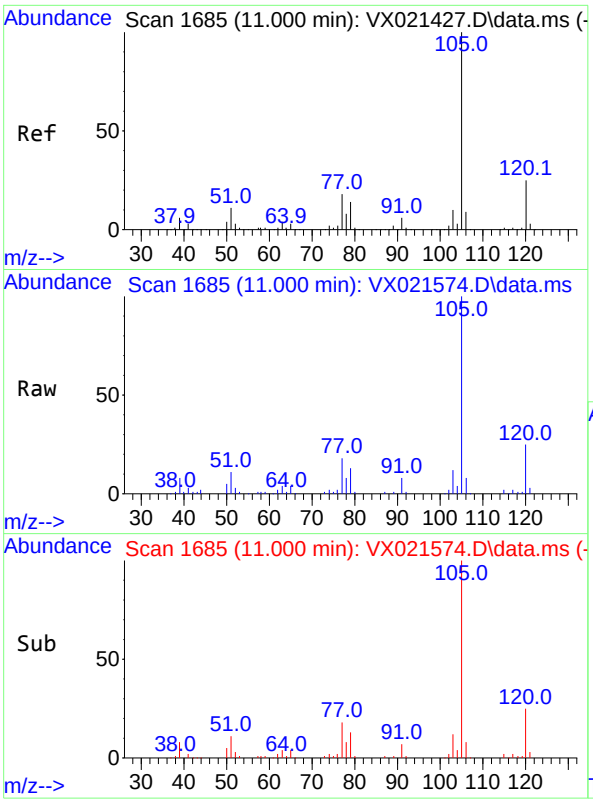
Tgt Ion:152 Resp: 58057

Ion	Ratio	Lower	Upper
152	100		
115	62.0	41.1	123.3
150	160.0	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
MW-4

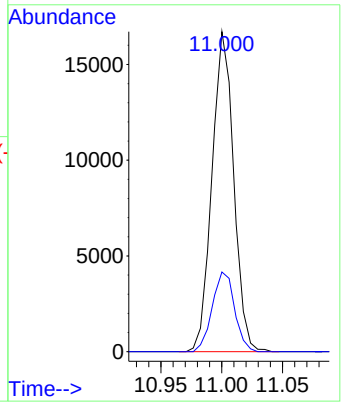
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:54 PM

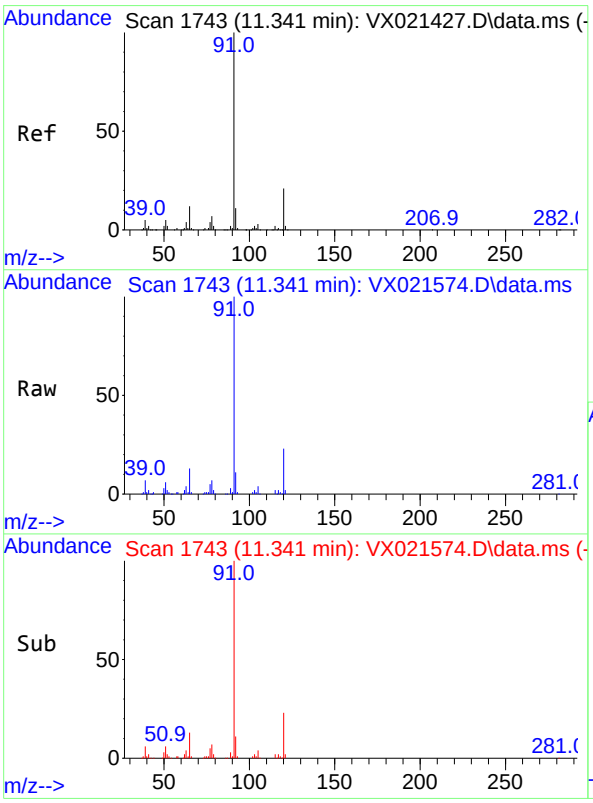


#73
Isopropylbenzene
Concen: 5.08 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

Tgt Ion:105 Resp: 20719

Ion	Ratio	Lower	Upper
105	100		
120	25.6	13.2	39.6

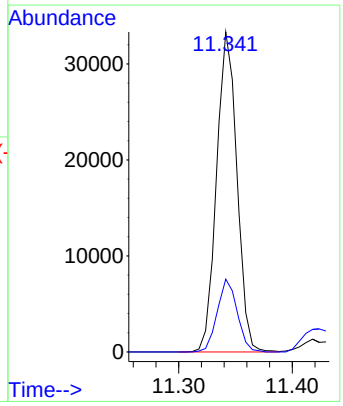




#78
n-propylbenzene
Concen: 8.63 ug/l
RT: 11.341 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

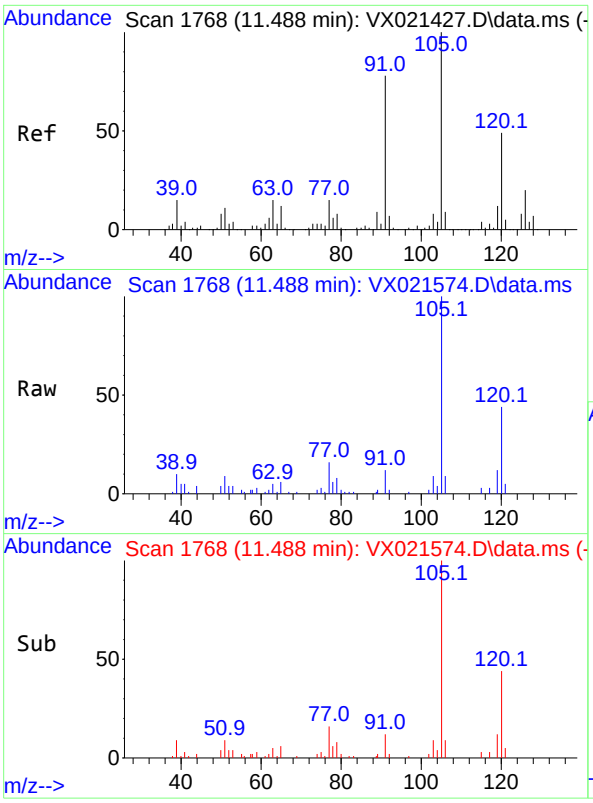
Tgt Ion: 91 Resp: 41572

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
MW-4

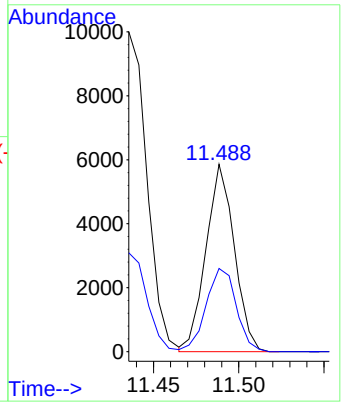
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:54 PM

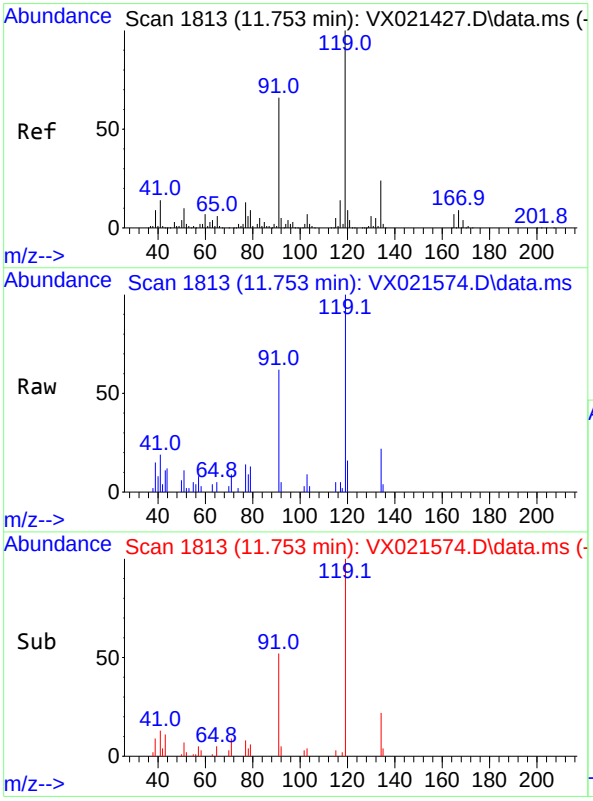


#80
1,3,5-Trimethylbenzene
Concen: 1.95 ug/l
RT: 11.488 min Scan# 1768
Delta R.T. 0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

Tgt Ion:105 Resp: 6790

Ion	Ratio	Lower	Upper
105	100		
120	47.1	23.8	71.5

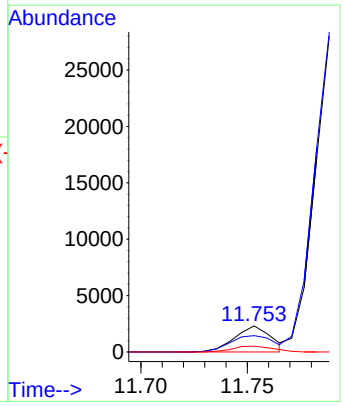




#83
tert-Butylbenzene
Concen: 0.80 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

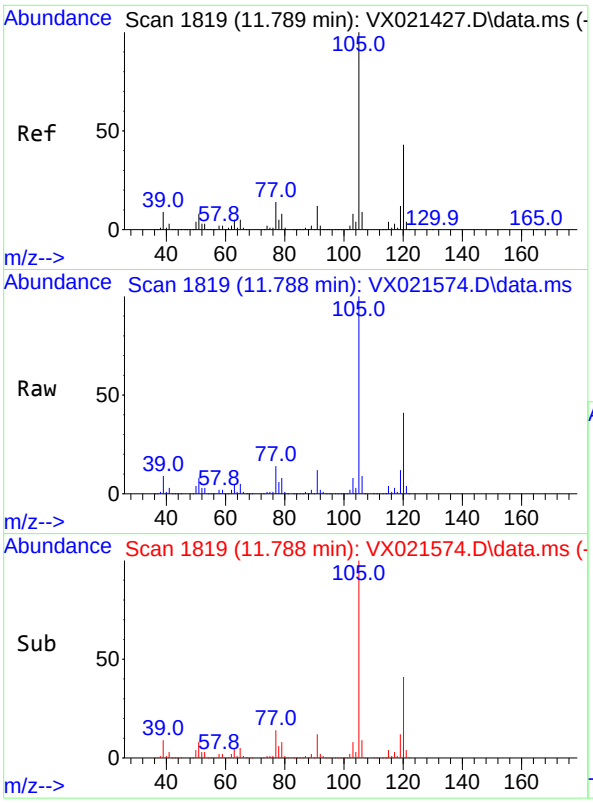
Tgt Ion:119 Resp: 2725

Ion	Ratio	Lower	Upper
119	100		
91	74.9	27.9	83.7
134	25.0	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
MW-4

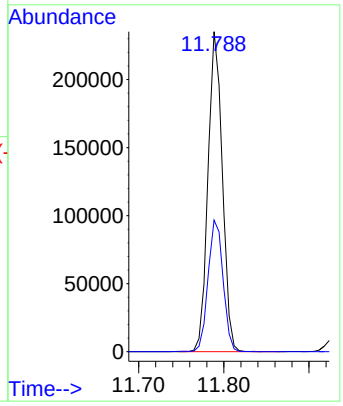
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:54 PM

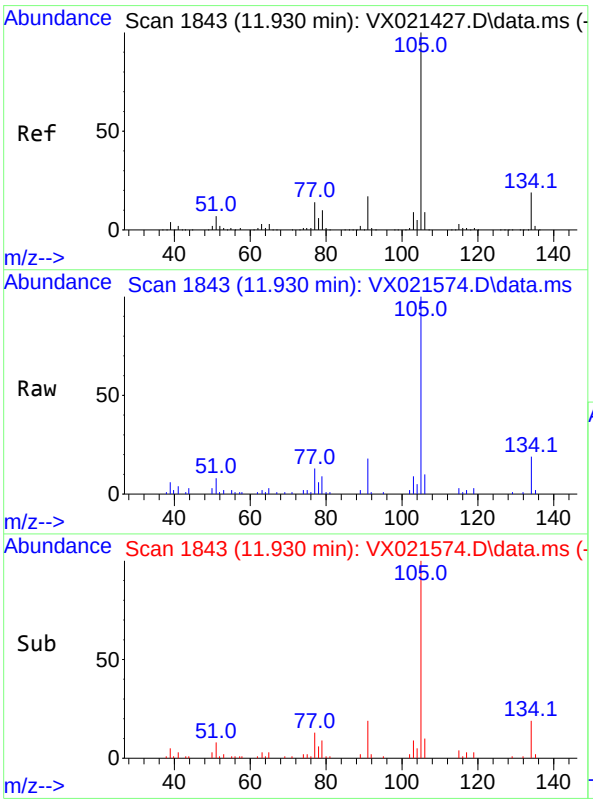


#84
1,2,4-Trimethylbenzene
Concen: 78.14 ug/l
RT: 11.788 min Scan# 1819
Delta R.T. -0.001 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

Tgt Ion:105 Resp: 274528

Ion	Ratio	Lower	Upper
105	100		
120	43.1	22.4	67.3

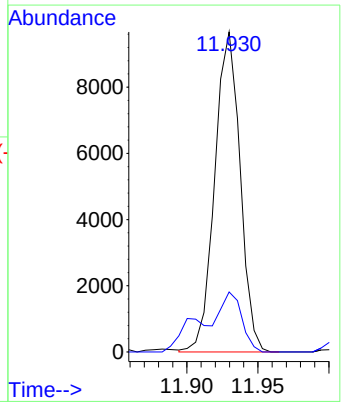




#85
sec-Butylbenzene
Concen: 3.07 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

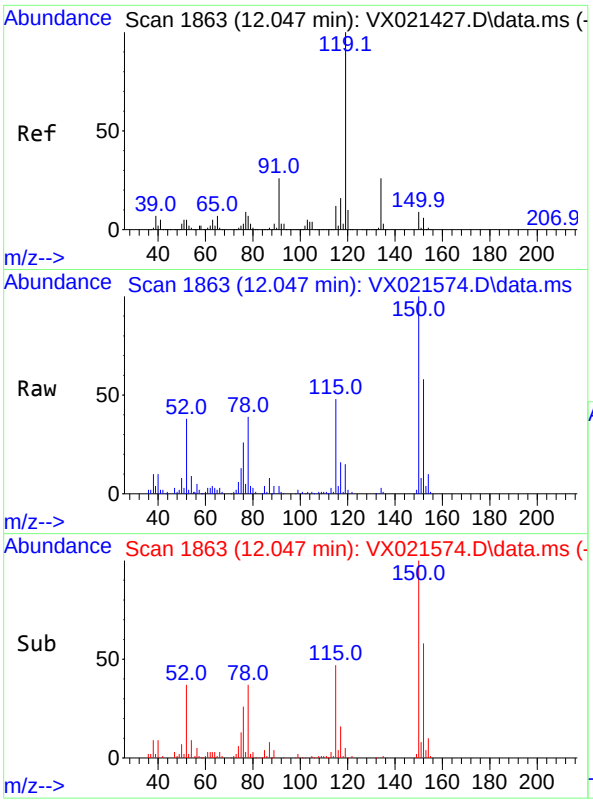
Tgt Ion:105 Resp: 12010

Ion	Ratio	Lower	Upper
105	100		
134	15.9	10.0	29.8



Instrument :
MSVOA_X
ClientSampleId :
MW-4

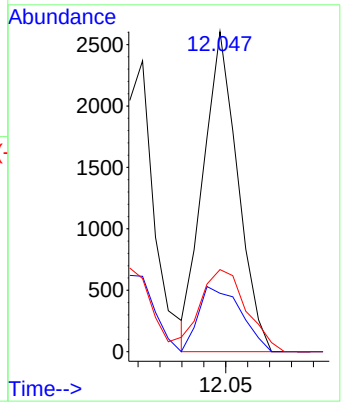
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:54 PM

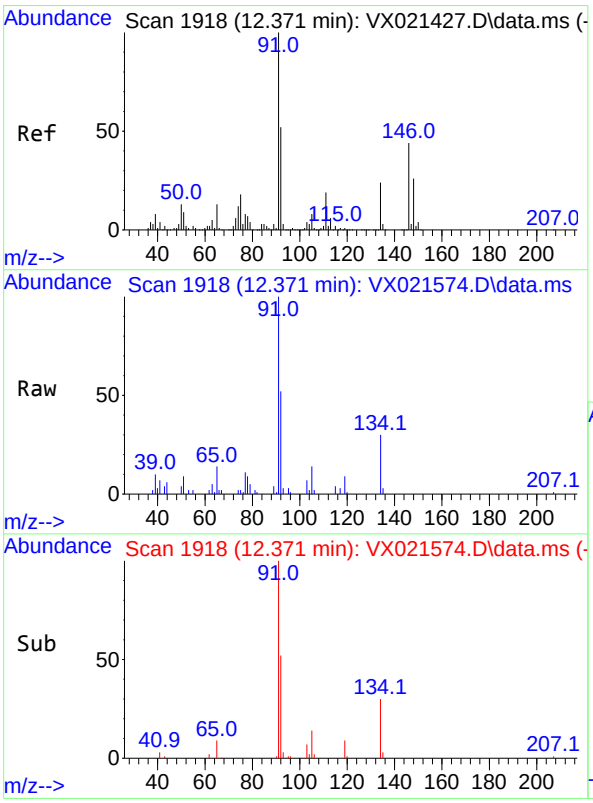


#86
p-Isopropyltoluene
Concen: 0.80 ug/l m
RT: 12.047 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

Tgt Ion:119 Resp: 2850

Ion	Ratio	Lower	Upper
119	100		
134	54.5	12.9	38.7#
91	51.2	11.7	35.0#

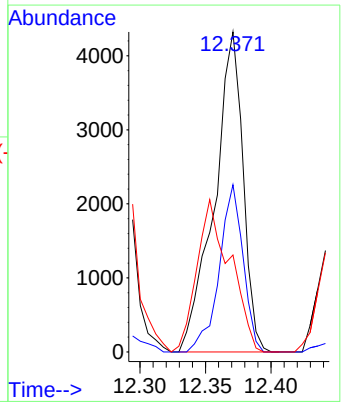




#89
n-Butylbenzene
Concen: 2.02 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. -0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

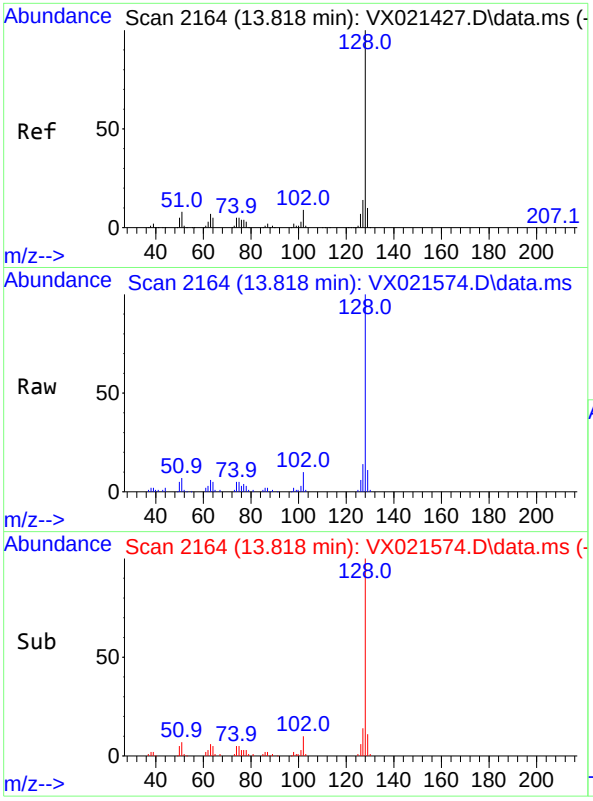
Tgt Ion: 91 Resp: 6586

Ion	Ratio	Lower	Upper
91	100		
92	43.3	27.4	82.0
134	55.0	13.2	39.5#



Instrument :
MSVOA_X
ClientSampleId :
MW-4

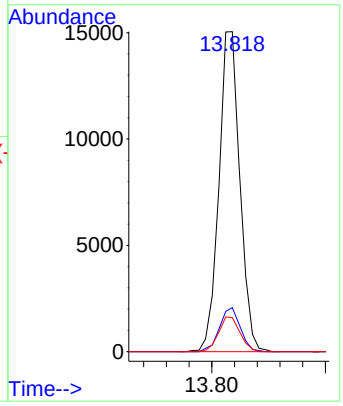
Manual Integrations APPROVED
MMDadoda
3/31/2021 12:06:54 PM



#95
Naphthalene
Concen: 5.10 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021574.D
Acq: 29 Mar 2021 14:05

Tgt Ion:128 Resp: 19299

Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.3	15.5
129	11.1	8.8	13.2



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-4

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

Signal : TIC: VX021574.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.464	732	744	756	rBV2	50475	140945	17.63%	3.065%
2	5.623	759	771	784	rBV2	71409	199371	24.93%	4.336%
3	6.029	829	840	853	rBV	54079	141462	17.69%	3.077%
4	6.829	966	976	987	rBV	122593	287708	35.98%	6.257%
5	8.694	1286	1293	1311	rBV	263671	405649	50.73%	8.822%
6	10.094	1525	1531	1541	rBV	285099	386685	48.35%	8.410%
7	10.235	1549	1555	1564	rBV	43214	59765	7.47%	1.300%
8	10.341	1564	1573	1580	rBV	25587	37801	4.73%	0.822%
9	11.000	1679	1685	1690	rBV	44366	55732	6.97%	1.212%
10	11.118	1700	1705	1711	rBV	247229	315553	39.46%	6.863%
11	11.341	1737	1743	1751	rBV	72259	90329	11.30%	1.965%
12	11.418	1751	1756	1757	rBV	23903	27343	3.42%	0.595%
13	11.435	1757	1759	1763	rVV	27149	32628	4.08%	0.710%
14	11.488	1763	1768	1773	rVB	17267	21354	2.67%	0.464%
15	11.653	1791	1796	1803	rBV	29935	41075	5.14%	0.893%
16	11.753	1808	1813	1815	rVV	8584	12839	1.61%	0.279%
17	11.788	1815	1819	1830	rVB	683544	799686	100.00%	17.392%
18	11.900	1830	1838	1840	rBV	11205	15690	1.96%	0.341%
19	11.930	1840	1843	1848	rVB	24039	29400	3.68%	0.639%
20	12.059	1860	1865	1871	rVV	318553	392708	49.11%	8.541%
21	12.124	1871	1876	1885	rVB	304760	371990	46.52%	8.090%
22	12.218	1885	1892	1897	rVB	13337	17695	2.21%	0.385%
23	12.283	1897	1903	1910	rBV	109418	137783	17.23%	2.997%
24	12.353	1910	1915	1923	rVB2	23116	44864	5.61%	0.976%
25	12.441	1925	1930	1936	rBV	16699	20434	2.56%	0.444%
26	12.500	1936	1940	1947	rVB	9759	11662	1.46%	0.254%
27	12.571	1947	1952	1954	rBV	31589	44252	5.53%	0.962%
28	12.594	1954	1956	1960	rVB	31430	30298	3.79%	0.659%
29	12.653	1960	1966	1969	rBV	53339	67129	8.39%	1.460%
30	12.683	1969	1971	1976	rVB	22233	23905	2.99%	0.520%
31	12.742	1976	1981	1988	rBV2	50895	85828	10.73%	1.867%
32	12.883	2000	2005	2010	rVB2	21427	30069	3.76%	0.654%
33	12.959	2010	2018	2022	rVV	26959	38685	4.84%	0.841%
34	13.000	2022	2025	2031	rVV	35921	41800	5.23%	0.909%
35	13.330	2076	2081	2087	rVB2	41040	59896	7.49%	1.303%
36	13.459	2098	2103	2108	rVB	25951	33274	4.16%	0.724%

Sample Results: **VX021574.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-4

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

37	13.812	2157	2163	2171	rVB	33509	44679	5.59%	0.972%

Sum of corrected areas: 4597966

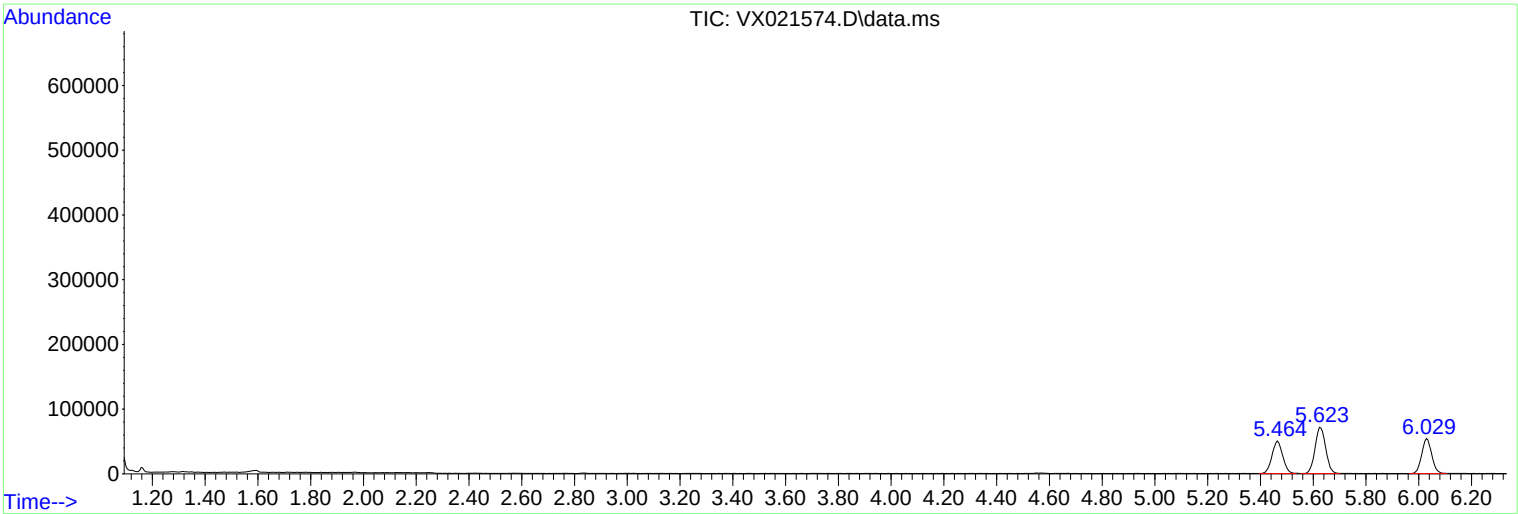
Sample Results: **VX021574.D**

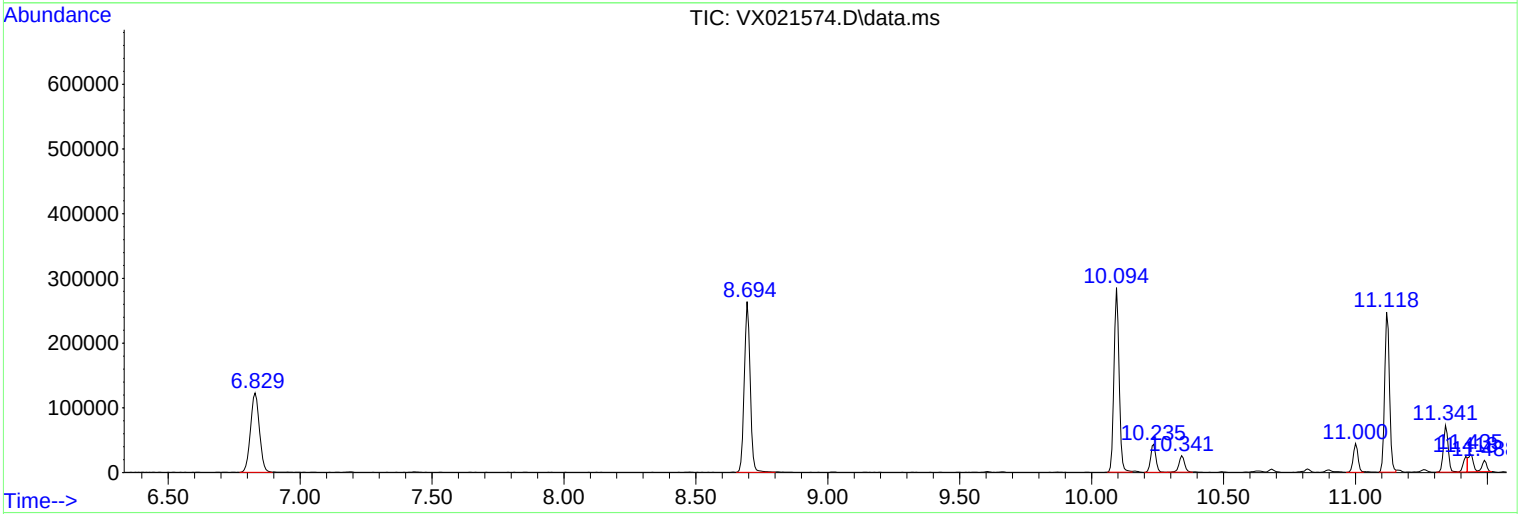
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

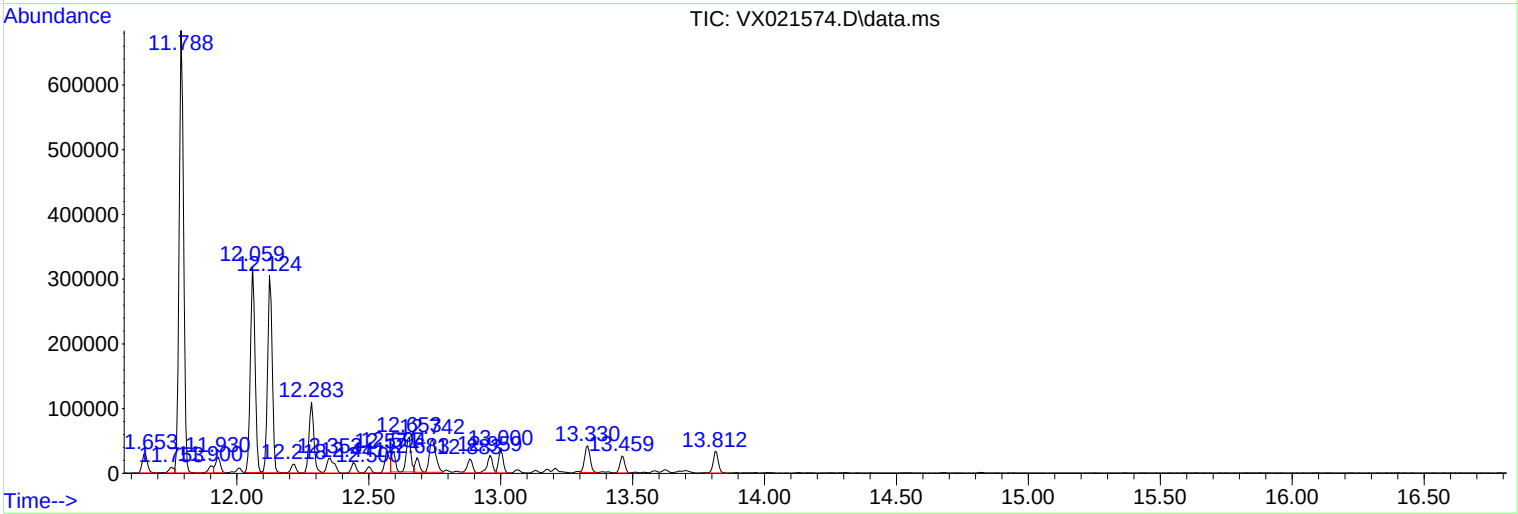
Instrument :
MSVOA_X
ClientSampleId :
MW-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-4

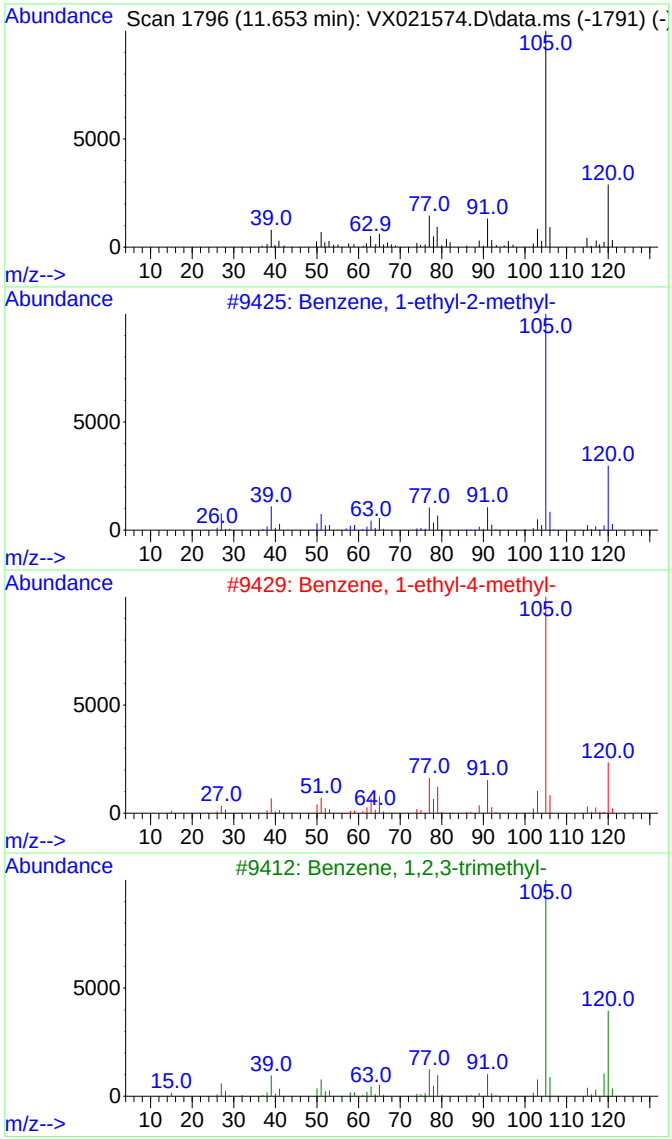
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

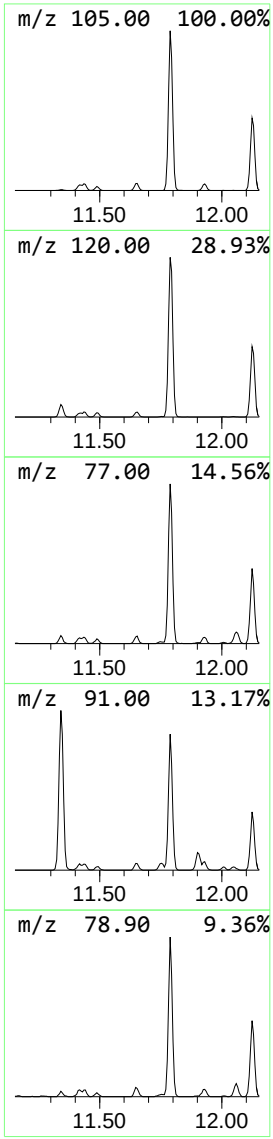
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Benzene, 1-ethyl-2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.653	5.23 ug/l	41075	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
4	Mesitylene	120	C9H12	000108-67-8	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-4

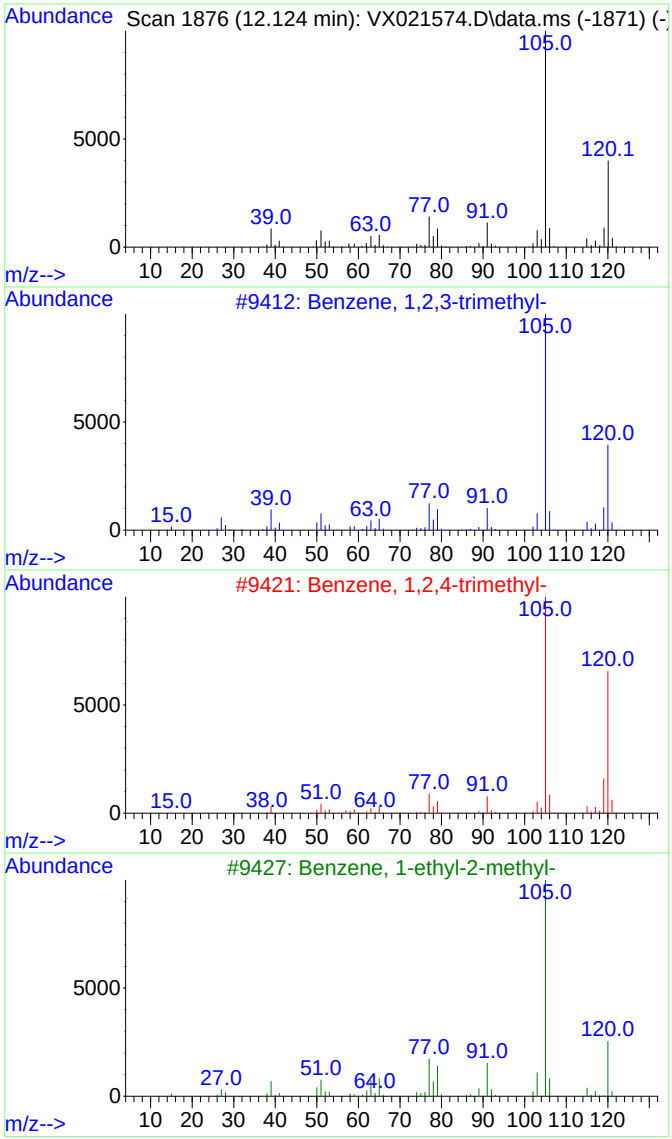
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

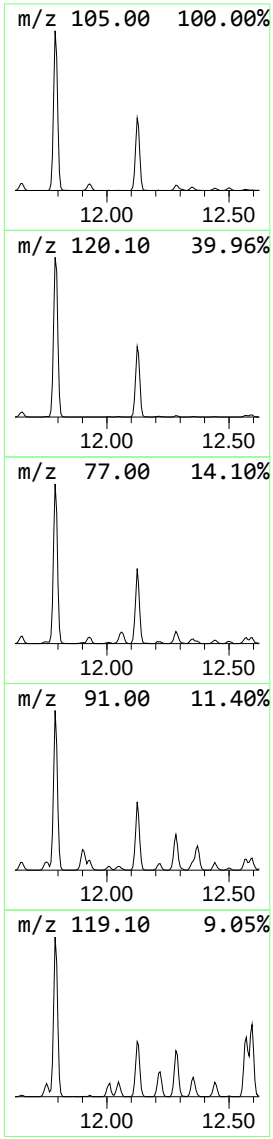
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Benzene, 1,2,3-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.124	47.36 ug/l	371990	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	97
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
4	Mesitylene	120	C9H12	000108-67-8	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

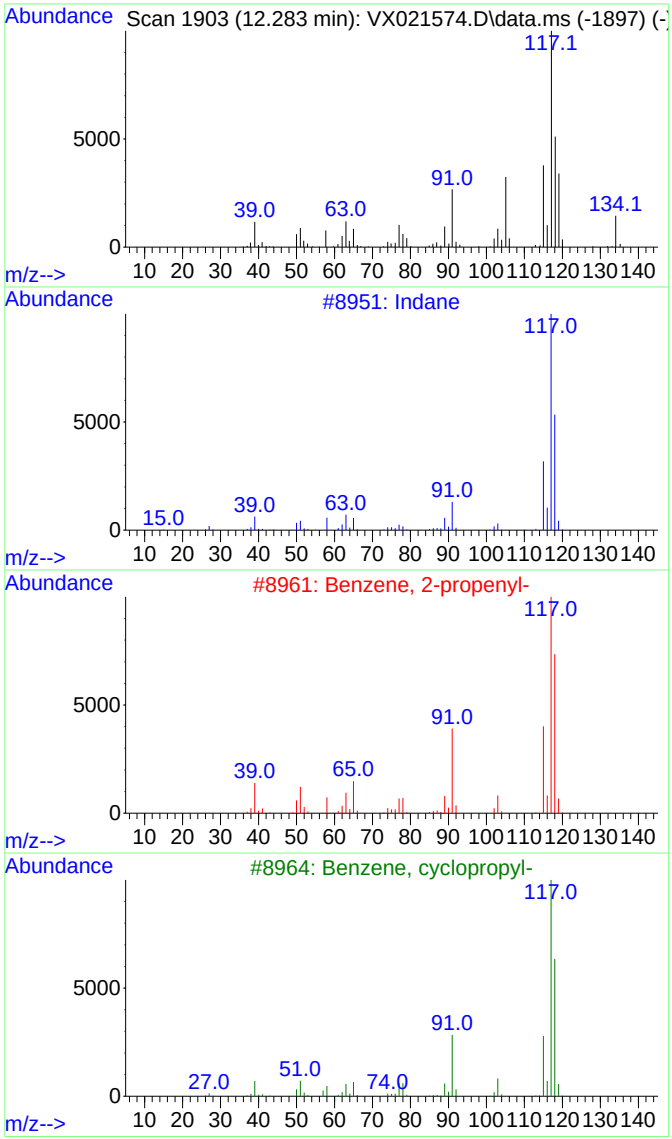
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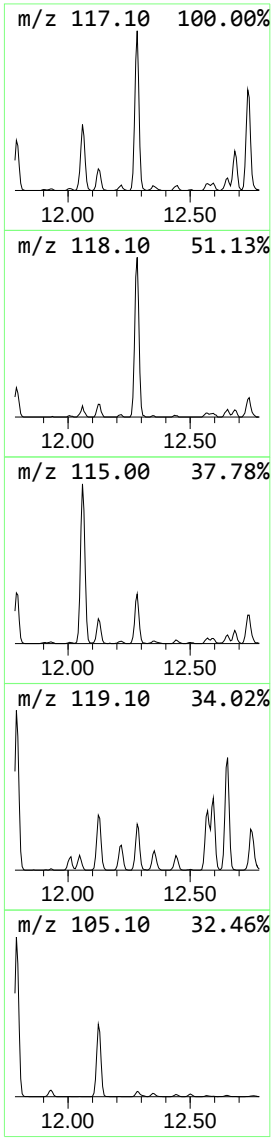
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Peak Number 3 Indane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.283	17.54 ug/l	137783	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	92
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	64
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	64
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	64
5	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	60





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

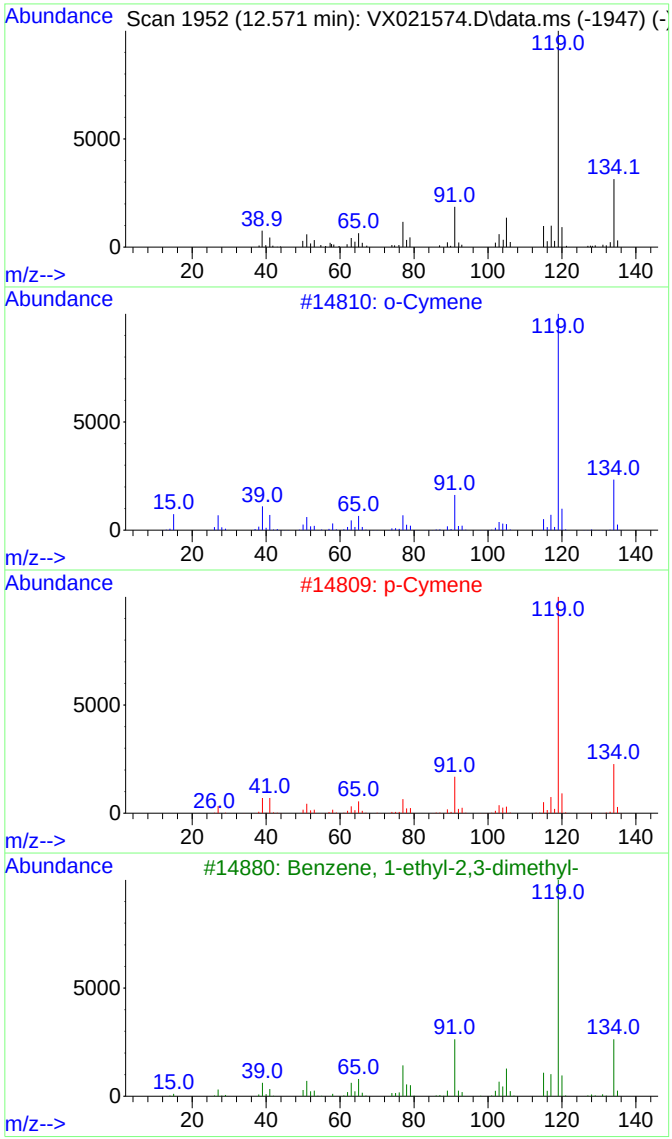
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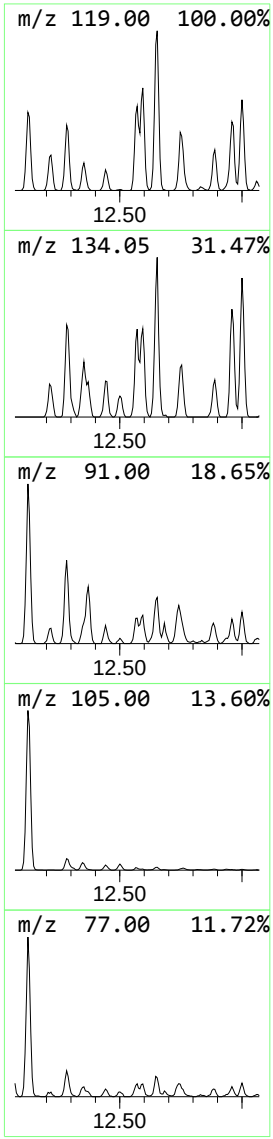
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Peak Number 4 o-Cymene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.571	5.63 ug/l	44252	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	97
2	p-Cymene	134	C10H14	000099-87-6	97
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	96
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-4

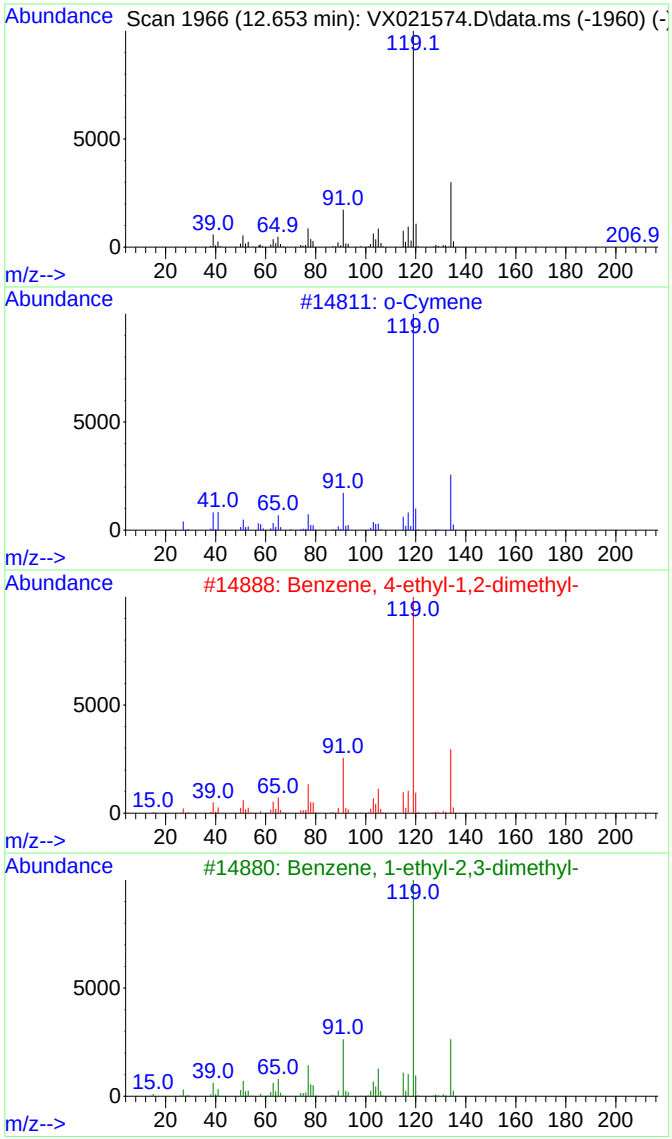
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Quant Title : SW846 8260

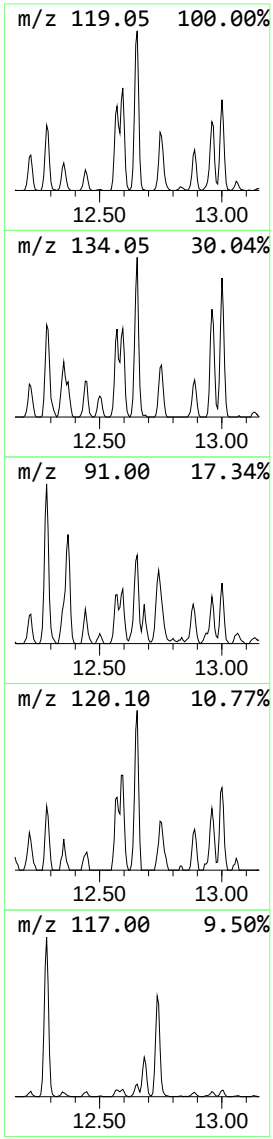
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.653	8.55 ug/l	67129	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	97
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

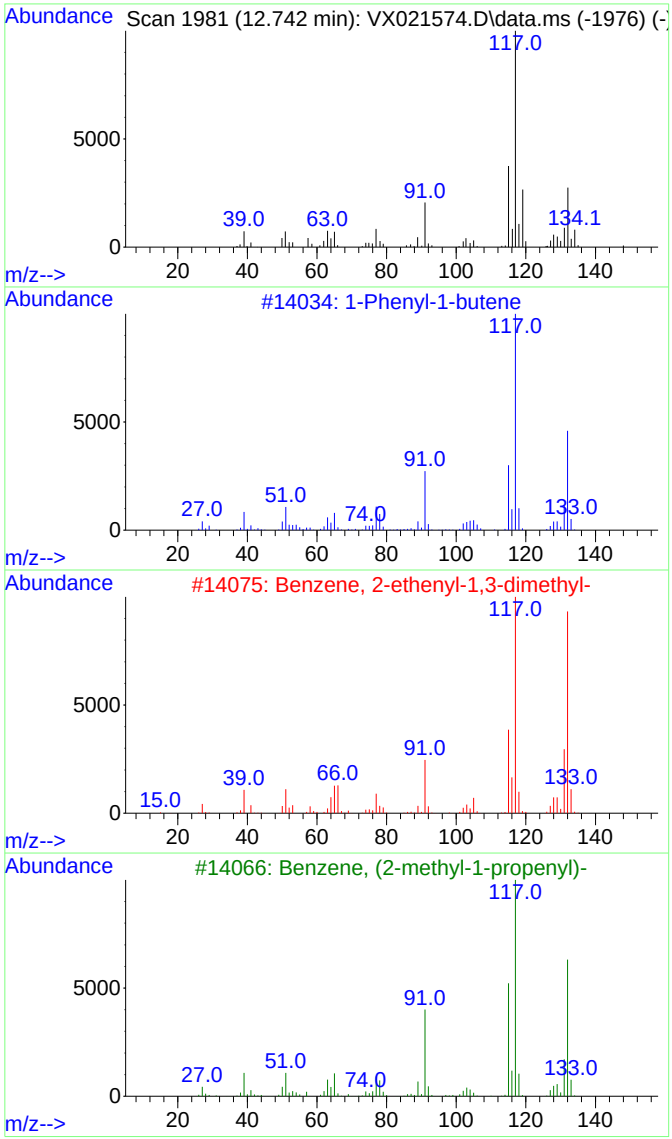
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TIC Integration Parameters: LSCINT.P

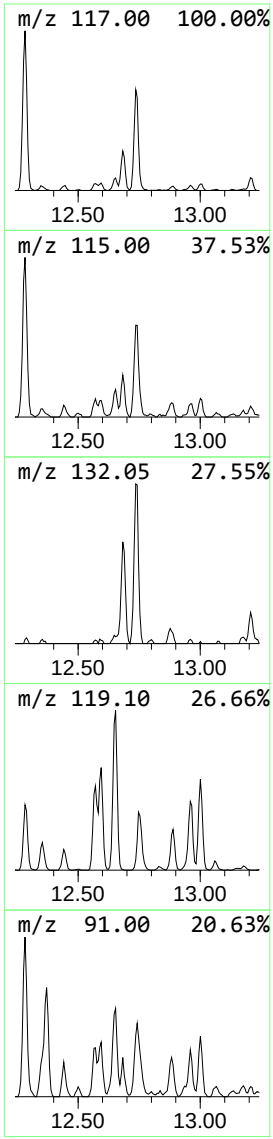
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Peak Number 6 1-Phenyl-1-butene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.742	10.93 ug/l	85828	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-1-butene	132	C10H12	000824-90-8	81
2	Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	81
3	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	81
4	Indan, 1-methyl-	132	C10H12	000767-58-8	81
5	Benzene, (2-methylcyclopropyl)-	132	C10H12	1000327-39-0	76





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-4

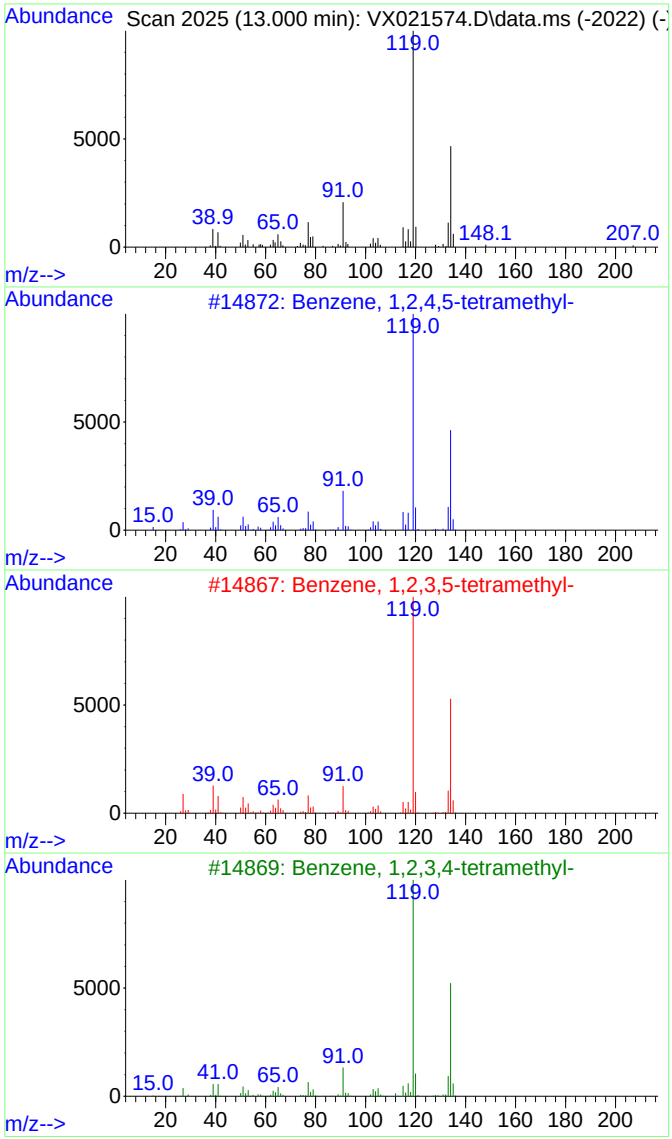
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

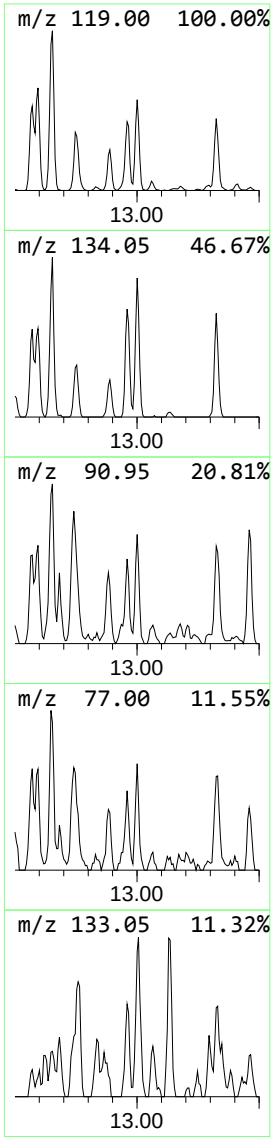
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.000	5.32 ug/l	41800	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

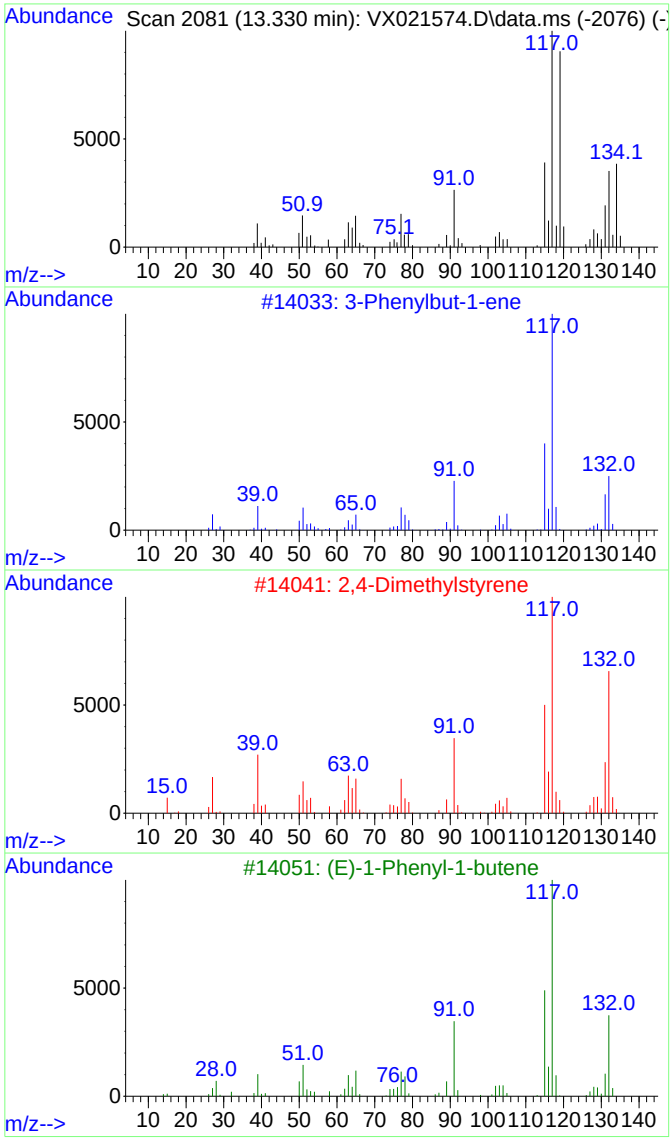
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TIC Integration Parameters: LSCINT.P

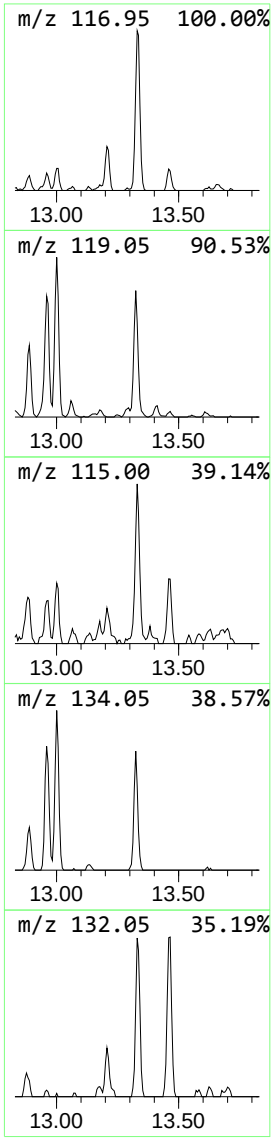
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Peak Number 8 3-Phenylbut-1-ene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.330	7.63 ug/l	59896	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Phenylbut-1-ene	132	C10H12	000934-10-1	87
2	2,4-Dimethylstyrene	132	C10H12	002234-20-0	80
3	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	70
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	64
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	64





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021574.D
Acq On : 29 Mar 2021 14:05
Operator : JC/MD
Sample : M1785-15 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzene, 1-ethy...	11.653	5.2	ug/l	41075	4	12.059	392708	50.0
Benzene, 1,2,3-...	12.124	47.4	ug/l	371990	4	12.059	392708	50.0
Indane	12.283	17.5	ug/l	137783	4	12.059	392708	50.0
o-Cymene	12.571	5.6	ug/l	44252	4	12.059	392708	50.0
Benzene, 4-ethy...	12.653	8.6	ug/l	67129	4	12.059	392708	50.0
1-Phenyl-1-butene	12.742	10.9	ug/l	85828	4	12.059	392708	50.0
Benzene, 1,2,4,...	13.000	5.3	ug/l	41800	4	12.059	392708	50.0
3-Phenylbut-1-ene	13.330	7.6	ug/l	59896	4	12.059	392708	50.0

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-5R	SDG No.:	M1785
Lab Sample ID:	M1785-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021581.D	10		03/29/21 16:49	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	10.0	U	2.30	10.0	ug/L
74-87-3	Chloromethane	10.0	U	2.00	10.0	ug/L
75-01-4	Vinyl Chloride	10.0	U	1.90	10.0	ug/L
74-83-9	Bromomethane	50.0	U	8.70	50.0	ug/L
75-00-3	Chloroethane	10.0	U	3.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	U	2.50	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	10.0	U	2.10	10.0	ug/L
75-35-4	1,1-Dichloroethene	10.0	U	2.60	10.0	ug/L
67-64-1	Acetone	50.0	U	16.1	50.0	ug/L
75-15-0	Carbon Disulfide	10.0	U	2.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	U	2.20	10.0	ug/L
79-20-9	Methyl Acetate	10.0	U	4.70	10.0	ug/L
75-09-2	Methylene Chloride	10.0	U	1.80	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	U	1.90	10.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	U	2.10	10.0	ug/L
110-82-7	Cyclohexane	50.0	U	13.0	50.0	ug/L
78-93-3	2-Butanone	50.0	U	9.00	50.0	ug/L
56-23-5	Carbon Tetrachloride	10.0	U	2.70	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	10.0	U	2.20	10.0	ug/L
74-97-5	Bromochloromethane	10.0	U	2.60	10.0	ug/L
67-66-3	Chloroform	10.0	U	2.70	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	U	2.00	10.0	ug/L
108-87-2	Methylcyclohexane	10.0	U	1.40	10.0	ug/L
71-43-2	Benzene	10.0	U	1.80	10.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	U	2.50	10.0	ug/L
79-01-6	Trichloroethene	10.0	U	1.70	10.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	U	1.70	10.0	ug/L
75-27-4	Bromodichloromethane	10.0	U	2.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	U	8.70	50.0	ug/L
108-88-3	Toluene	10.0	U	2.20	10.0	ug/L
10061-02-6	t-1,3-Dichloropropene	10.0	U	1.80	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	U	1.70	10.0	ug/L

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-5R	SDG No.:	M1785
Lab Sample ID:	M1785-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021581.D	10		03/29/21 16:49	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	10.0	U	2.40	10.0	ug/L
591-78-6	2-Hexanone	50.0	U	9.20	50.0	ug/L
124-48-1	Dibromochloromethane	10.0	U	1.80	10.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	U	1.60	10.0	ug/L
127-18-4	Tetrachloroethene	10.0	U	1.70	10.0	ug/L
108-90-7	Chlorobenzene	10.0	U	1.70	10.0	ug/L
100-41-4	Ethyl Benzene	18.1		1.80	10.0	ug/L
1330-20-7	Total Xylenes	115		5.10	30.0	ug/L
100-42-5	Styrene	10.0	U	1.60	10.0	ug/L
75-25-2	Bromoform	10.0	U	1.90	10.0	ug/L
98-82-8	Isopropylbenzene	180		2.30	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	U	2.90	10.0	ug/L
103-65-1	n-propylbenzene	360		2.40	10.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	270		2.50	10.0	ug/L
98-06-6	tert-Butylbenzene	31.5		2.60	10.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	1200		2.00	10.0	ug/L
135-98-8	sec-Butylbenzene	140		2.30	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	U	1.90	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	U	2.00	10.0	ug/L
104-51-8	n-Butylbenzene	130		1.90	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	U	1.90	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	10.0	U	4.70	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	U	3.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	10.0	U	3.50	10.0	ug/L
123-91-1	1,4-Dioxane	1000	U	69.8	1000	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.4		78 - 117	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	51.2		92 - 112	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.5		83 - 123	115%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	59100	5.635			
540-36-3	1,4-Difluorobenzene	109000	6.829			

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-5R	SDG No.:	M1785
Lab Sample ID:	M1785-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021581.D	10		03/29/21 16:49	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
3114-55-4	Chlorobenzene-d5	114000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	57500	12.059			
TENTATIVE IDENTIFIED COMPOUNDS						
179601-23-1	m/p-Xylenes	110	J		10.3	ug/L
95-47-6	o-Xylene	5.40	J		10.7	ug/L
000611-14-3	Benzene, 1-ethyl-2-methyl-	240	J		11.4	ug/L
000526-73-8	Benzene, 1,2,3-trimethyl-	600	J		12.1	ug/L
000622-97-9	Benzene, 1-ethenyl-4-methyl-	660	J		12.3	ug/L
000135-01-3	Benzene, 1,2-diethyl-	120	J		12.4	ug/L
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	440	J		12.7	ug/L
000824-90-8	1-Phenyl-1-butene	130	J		12.7	ug/L
000767-58-8	Indan, 1-methyl-	430	J		12.7	ug/L
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	260	J		13.0	ug/L
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	110	J		13.0	ug/L
000527-84-4	o-Cymene	470	J		13.3	ug/L
91-20-3	Naphthalene	6.30	J		13.8	ug/L

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-5R

Quant Time: Mar 30 03:29:50 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

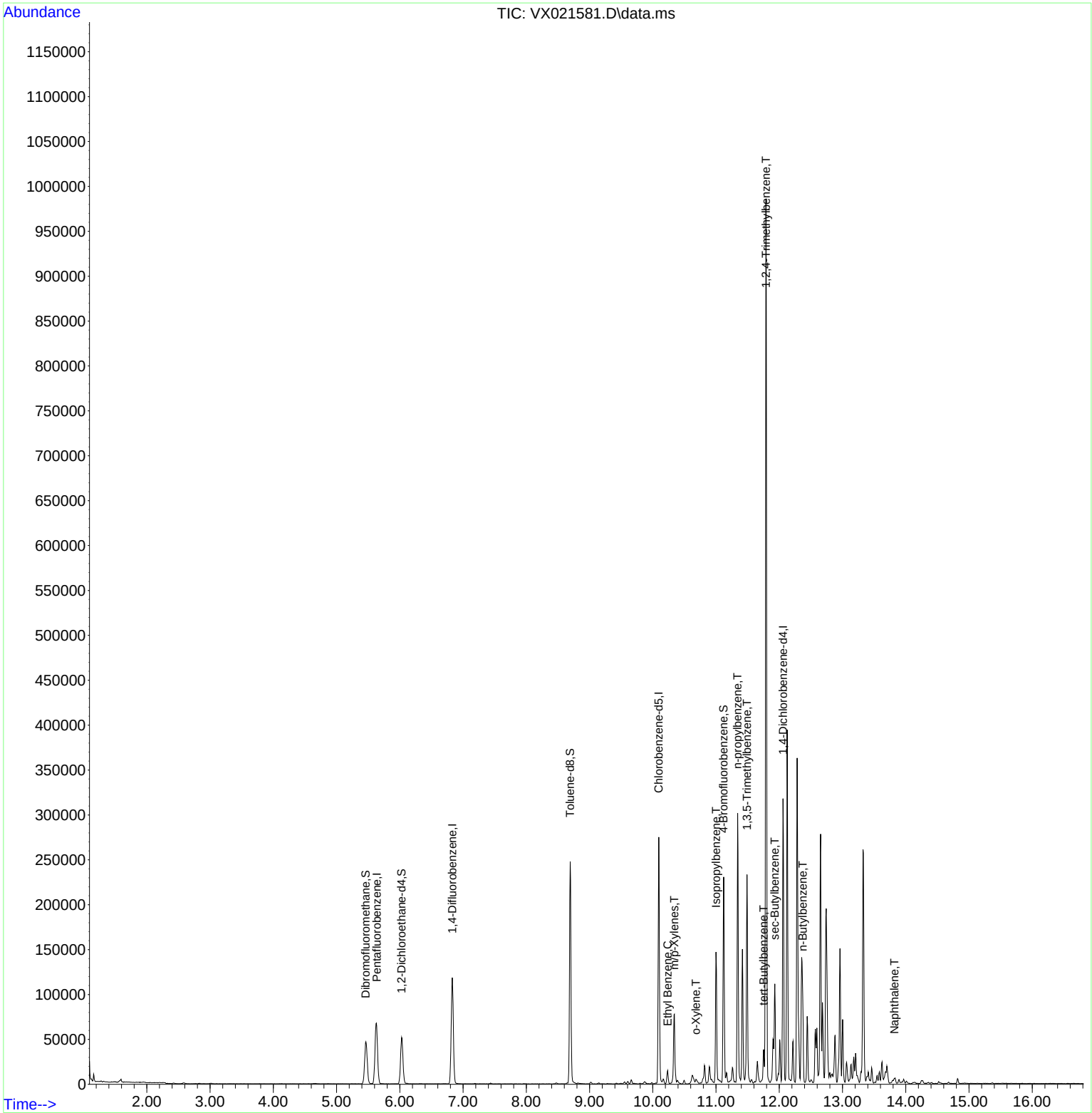
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.635	168	59069	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	109090	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	113700	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	57549	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.029	65	51531	52.43	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.86%				
35) Dibromofluoromethane	5.458	113	39089	50.44	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.88%				
50) Toluene-d8	8.694	98	141273	51.16	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.32%				
62) 4-Bromofluorobenzene	11.118	95	61713	57.48	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 114.96%				
Target Compounds							Qvalue
67) Ethyl Benzene	10.235	91	7541	1.81	ug/l		100
68) m/p-Xylenes	10.341	106	15868	10.70	ug/l		91
69) o-Xylene	10.683	106	777	0.54	ug/l		100
73) Isopropylbenzene	11.000	105	71260	17.62	ug/l		98
78) n-propylbenzene	11.341	91	169749	35.55	ug/l		99
80) 1,3,5-Trimethylbenzene	11.489	105	92006	26.63	ug/l		98
83) tert-Butylbenzene	11.753	119	10605	3.15	ug/l		81
84) 1,2,4-Trimethylbenzene	11.789	105	405761	116.52	ug/l		98
85) sec-Butylbenzene	11.930	105	52653	13.57	ug/l		80
89) n-Butylbenzene	12.371	91	43017	13.29	ug/l	#	72
95) Naphthalene	13.818	128	2347	0.63	ug/l	#	93

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

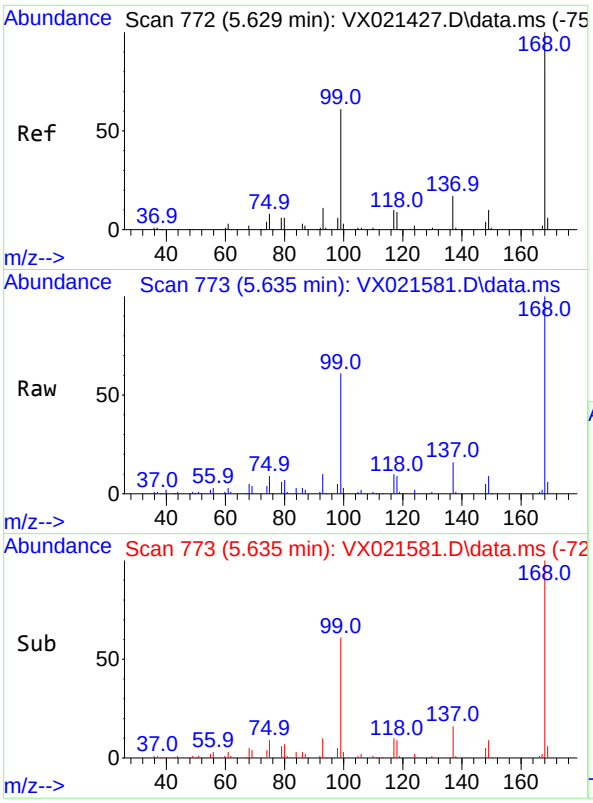
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Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-5R

Quant Time: Mar 30 03:29:50 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration



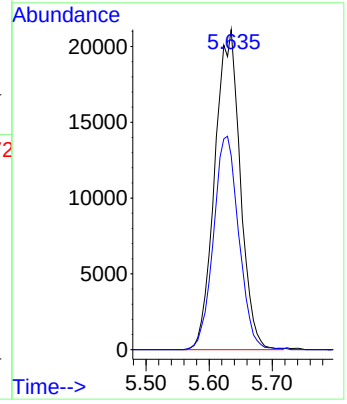
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ClientSampleId :
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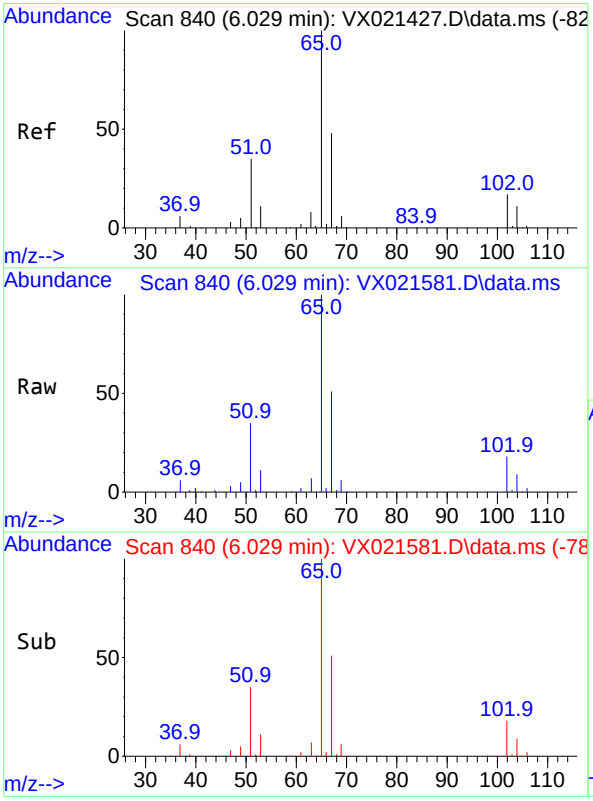


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.635 min Scan# 773
Delta R.T. 0.006 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:168 Resp: 59069

Ion	Ratio	Lower	Upper
168	100		
99	60.6	45.8	68.6

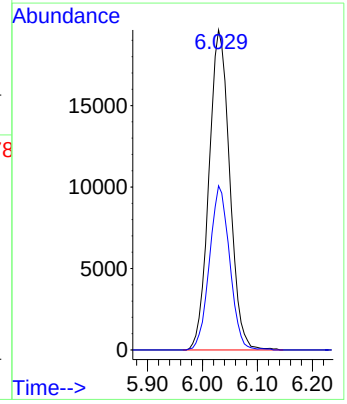




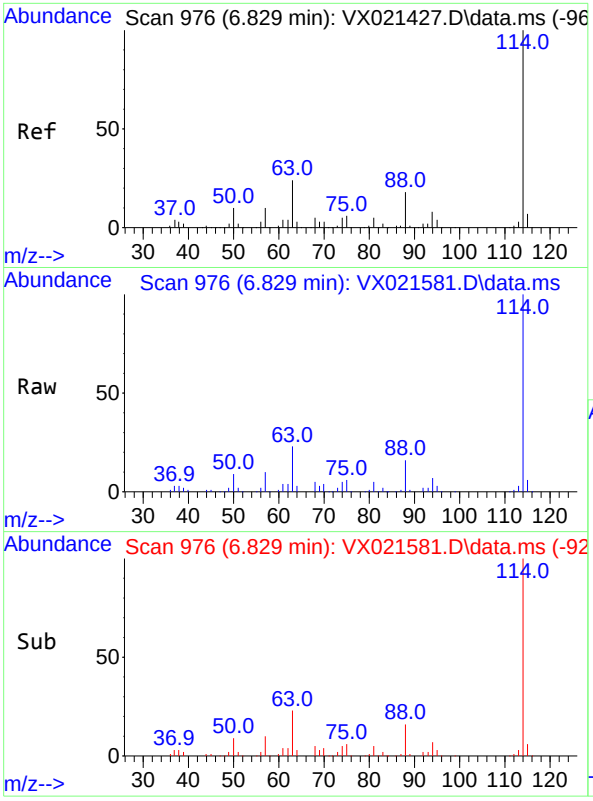
#33
1,2-Dichloroethane-d4
Concen: 52.43 ug/l
RT: 6.029 min Scan# 840
Delta R.T. 0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion: 65 Resp: 51531

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	105.4



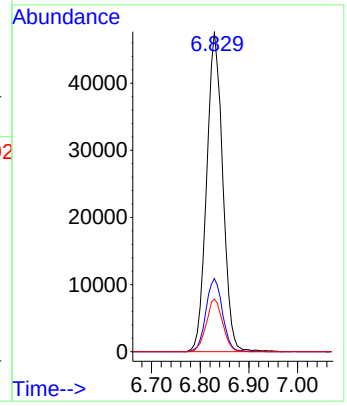
Instrument :
MSVOA_X
ClientSampleId :
MW-5R

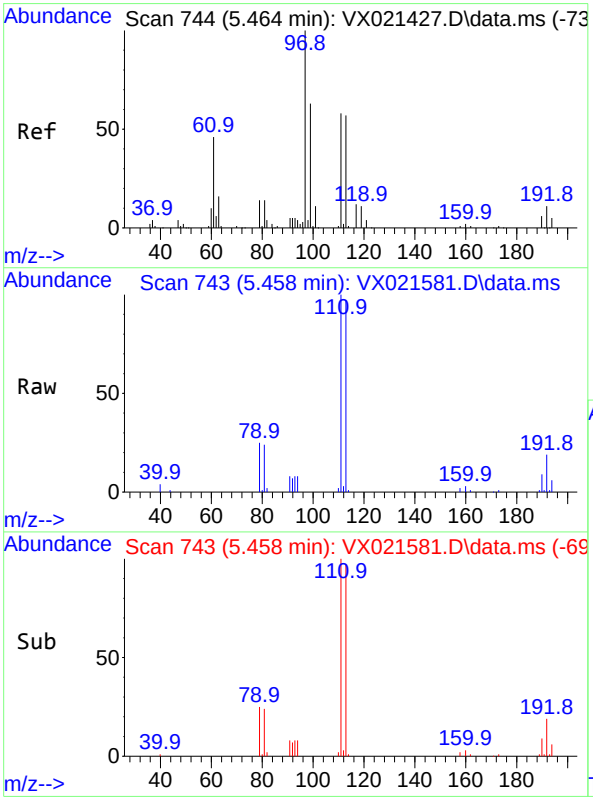


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:114 Resp: 109090

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	40.8
88	16.5	0.0	32.8

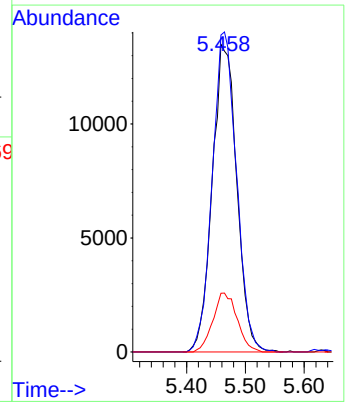




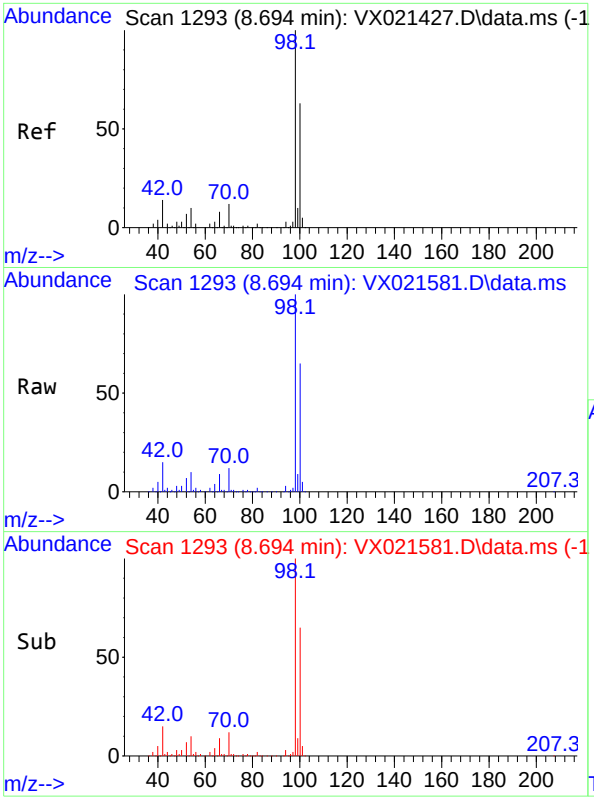
#35
Dibromofluoromethane
Concen: 50.44 ug/l
RT: 5.458 min Scan# 743
Delta R.T. -0.006 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:113 Resp: 39089

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.9	122.9
192	19.0	16.7	25.1



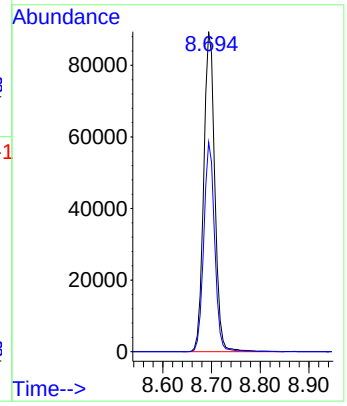
Instrument :
MSVOA_X
ClientSampleId :
MW-5R

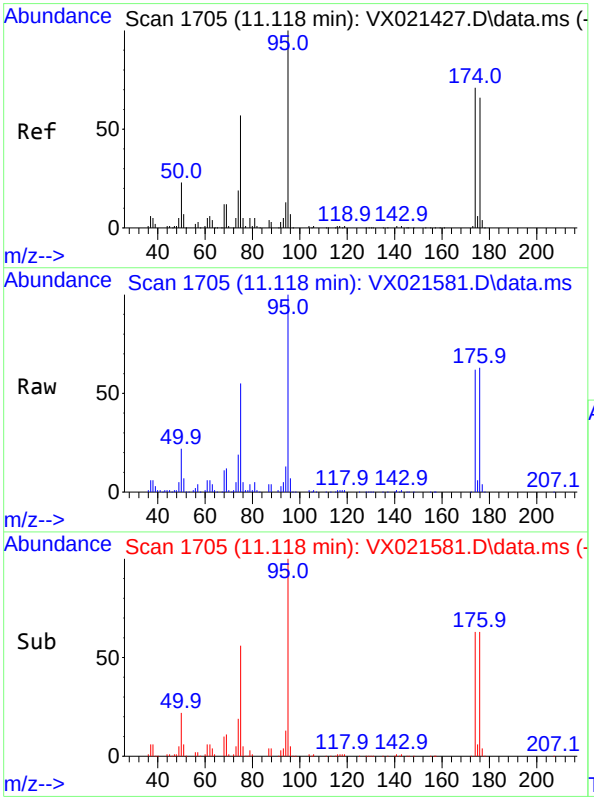


#50
Toluene-d8
Concen: 51.16 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion: 98 Resp: 141273

Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.9	77.9

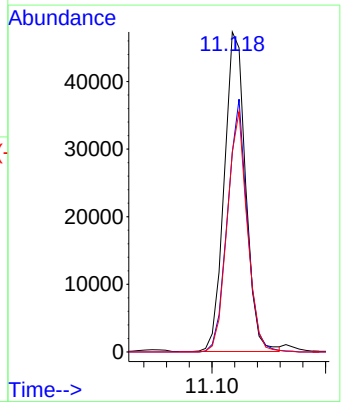




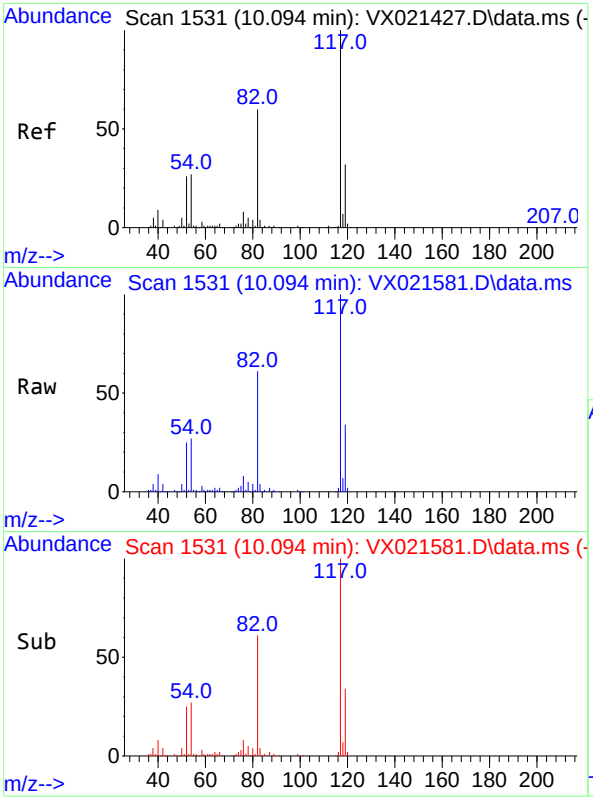
#62
4-Bromofluorobenzene
Concen: 57.48 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion: 95 Resp: 61713

Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	154.6
176	70.3	0.0	155.8



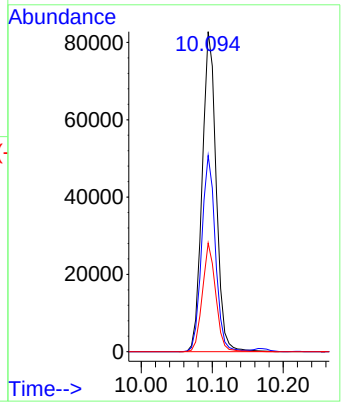
Instrument :
MSVOA_X
ClientSampleId :
MW-5R

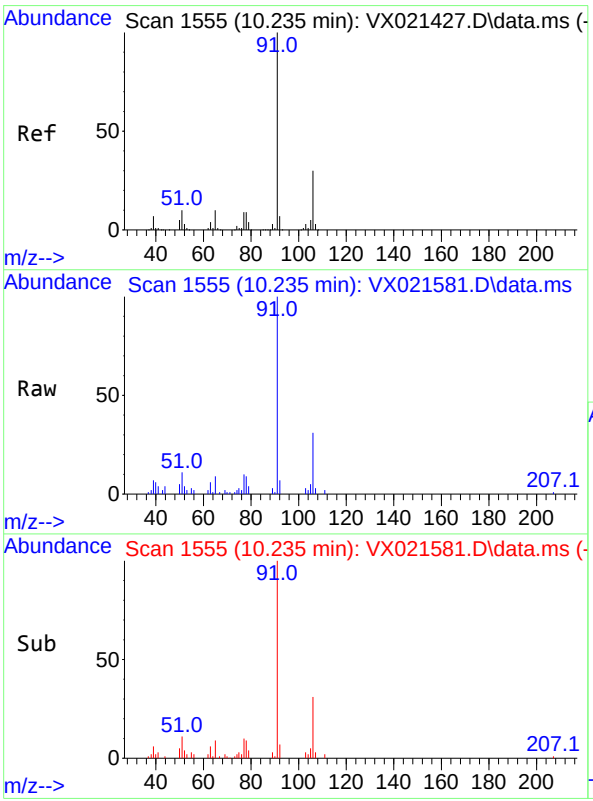


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:117 Resp: 113700

Ion	Ratio	Lower	Upper
117	100		
82	61.3	47.4	71.2
119	34.0	26.6	39.8

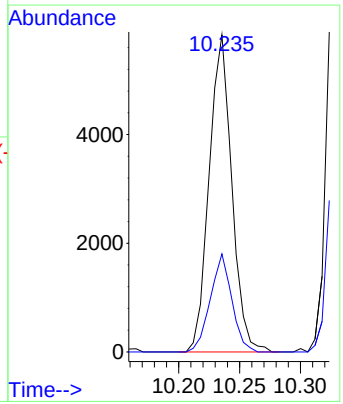




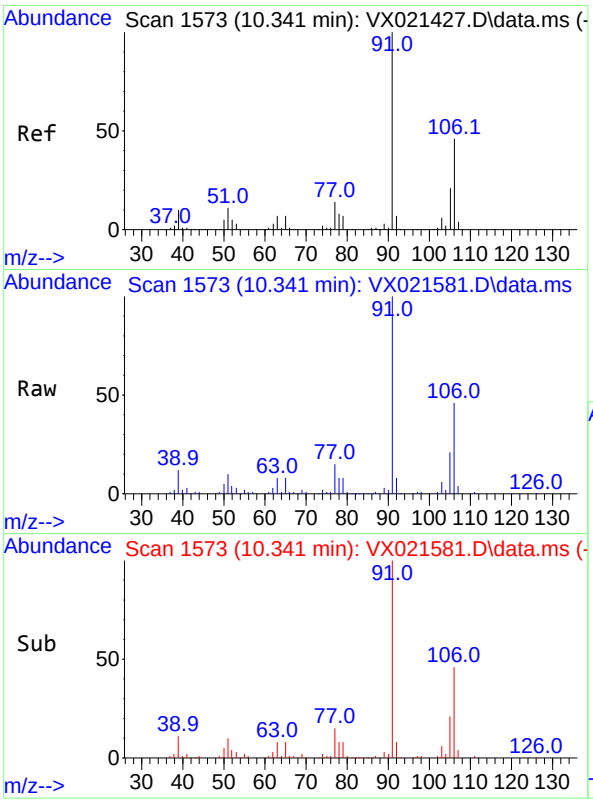
#67
Ethyl Benzene
Concen: 1.81 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion: 91 Resp: 7541

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.6	37.0



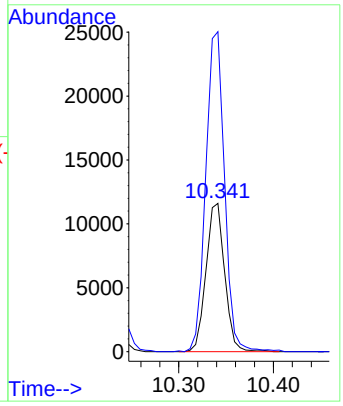
Instrument :
MSVOA_X
ClientSampleId :
MW-5R

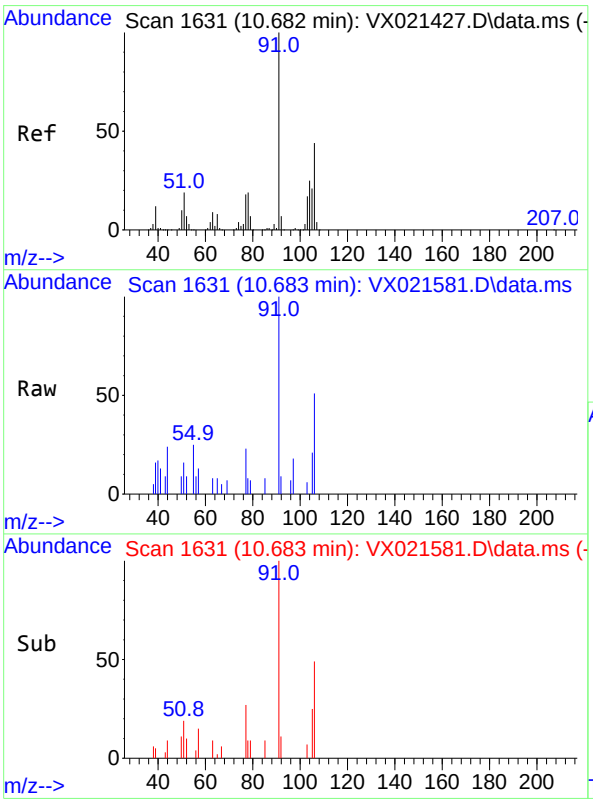


#68
m/p-Xylenes
Concen: 10.70 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:106 Resp: 15868

Ion	Ratio	Lower	Upper
106	100		
91	216.5	162.8	244.2

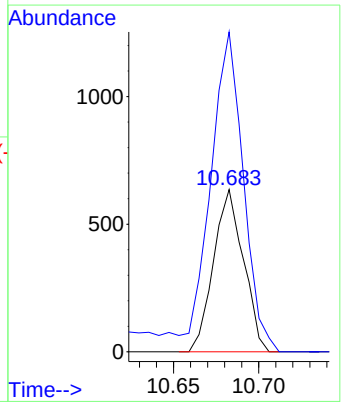




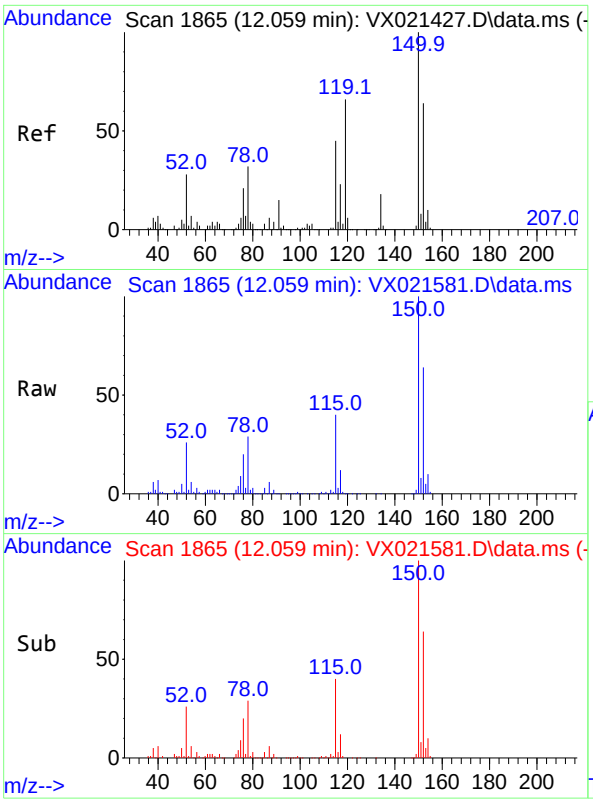
#69
o-Xylene
Concen: 0.54 ug/l
RT: 10.683 min Scan# 1631
Delta R.T. 0.001 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:106 Resp: 777

Ion	Ratio	Lower	Upper
106	100		
91	215.3	108.1	324.2



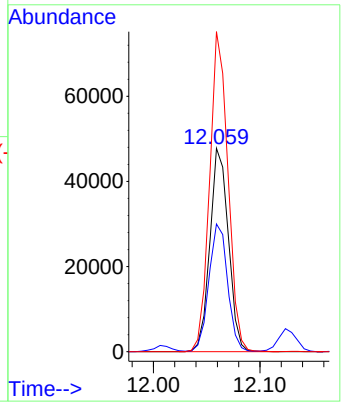
Instrument :
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ClientSampleId :
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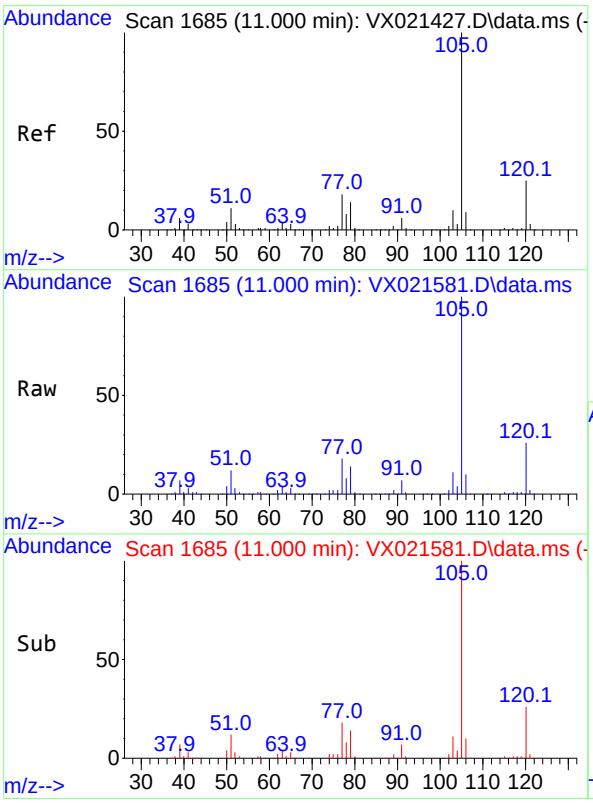


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:152 Resp: 57549

Ion	Ratio	Lower	Upper
152	100		
115	63.9	41.1	123.3
150	155.8	0.0	349.0

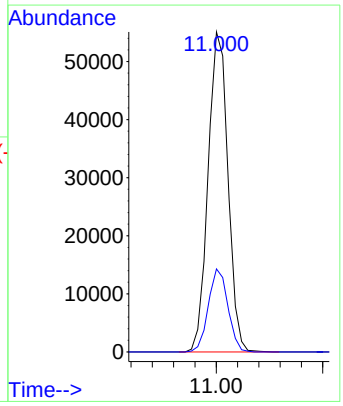




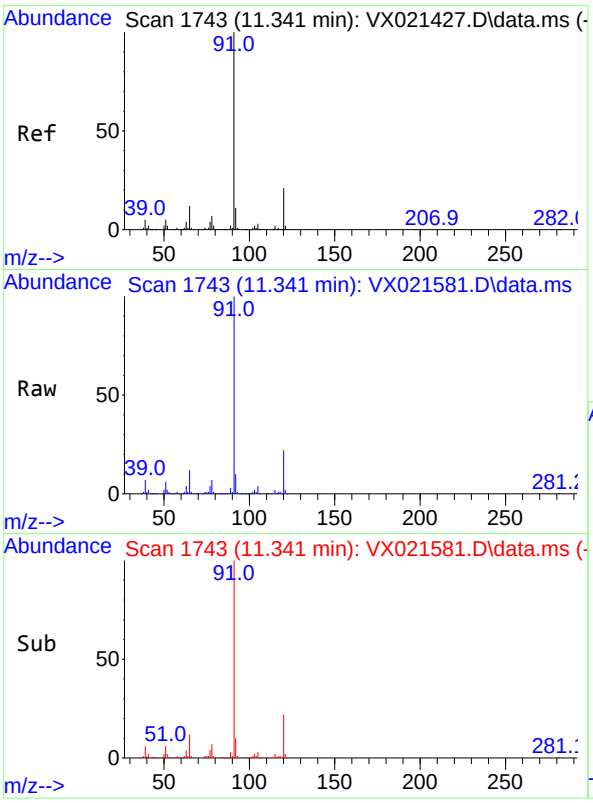
#73
Isopropylbenzene
Concen: 17.62 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:105 Resp: 71260

Ion	Ratio	Lower	Upper
105	100		
120	25.5	13.2	39.6



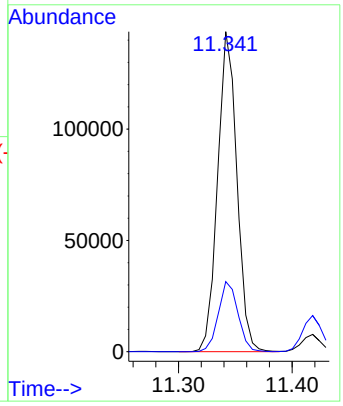
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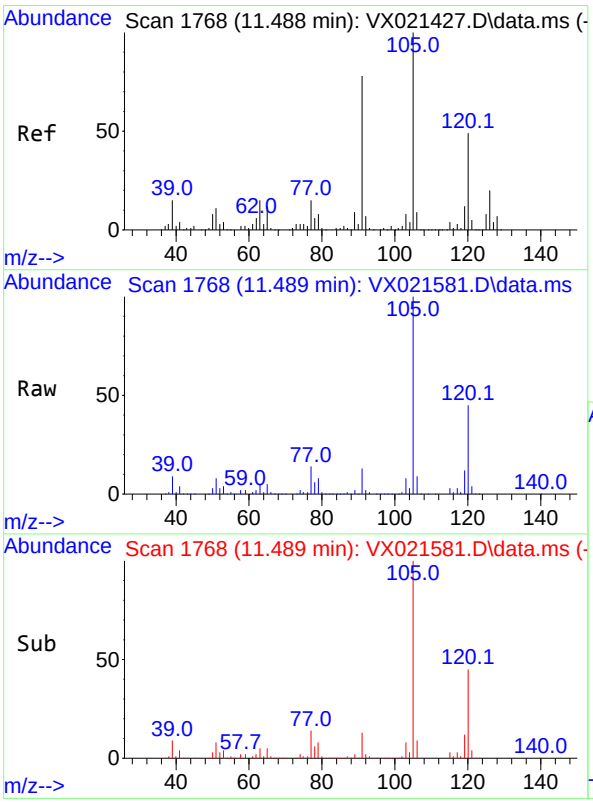


#78
n-propylbenzene
Concen: 35.55 ug/l
RT: 11.341 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion: 91 Resp: 169749

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.5	34.5

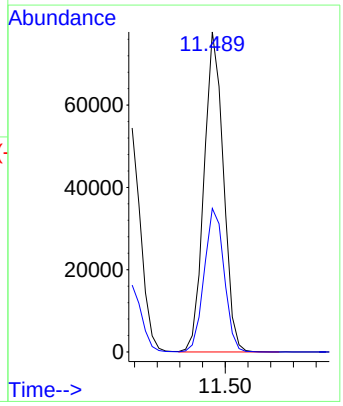




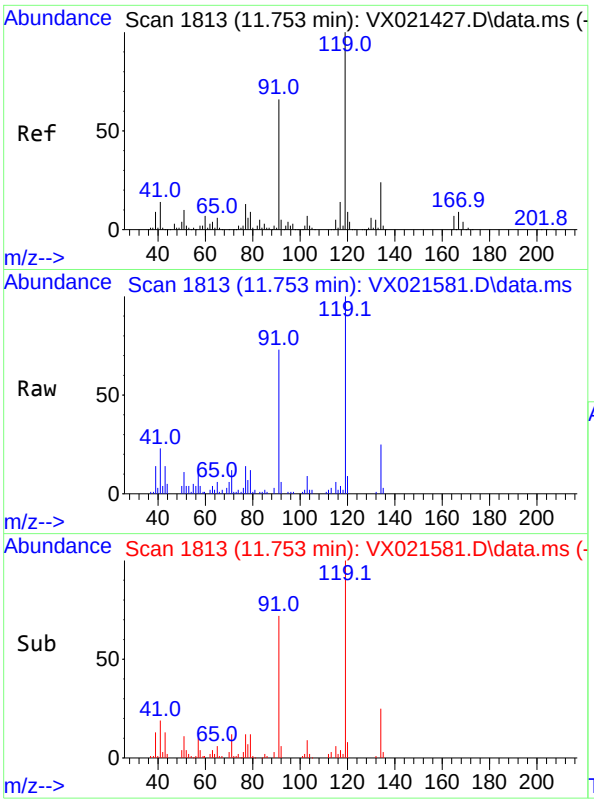
#80
1,3,5-Trimethylbenzene
Concen: 26.63 ug/l
RT: 11.489 min Scan# 1768
Delta R.T. 0.001 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:105 Resp: 92006

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.8	71.5



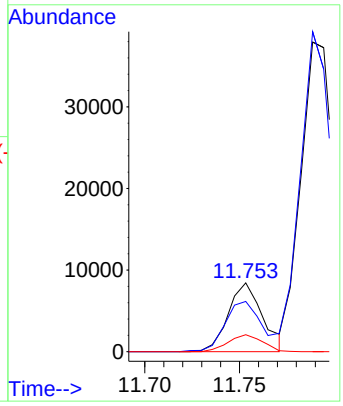
Instrument :
MSVOA_X
ClientSampleId :
MW-5R

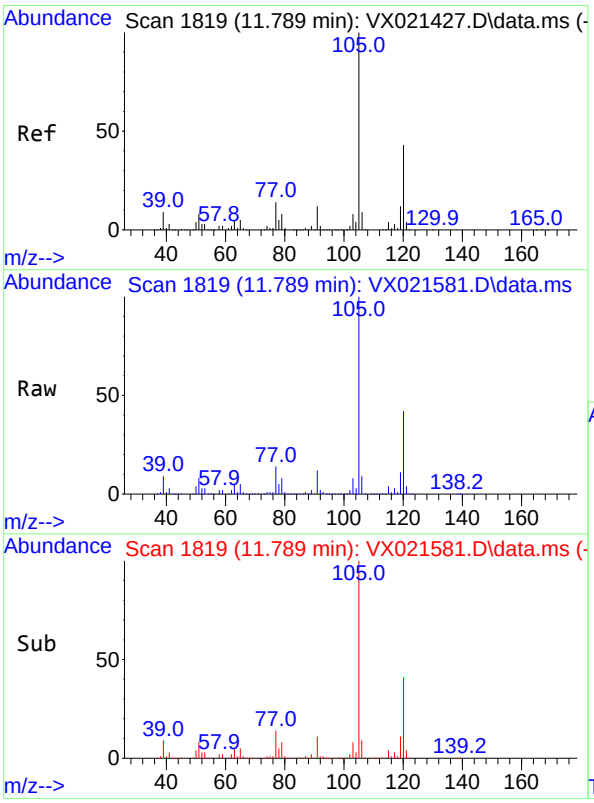


#83
tert-Butylbenzene
Concen: 3.15 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:119 Resp: 10605

Ion	Ratio	Lower	Upper
119	100		
91	74.4	27.9	83.7
134	24.7	11.3	33.9

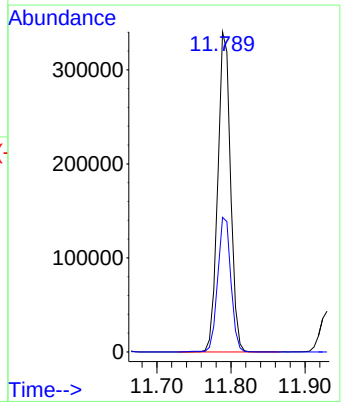




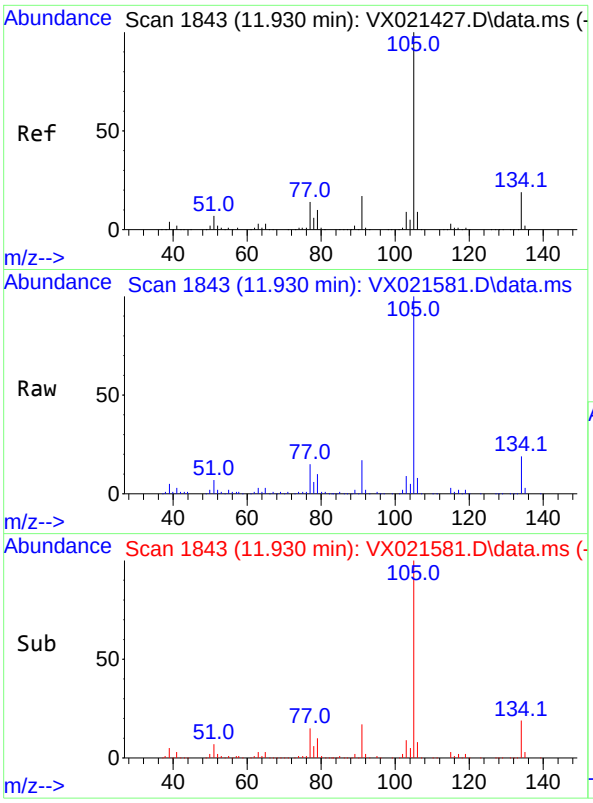
#84
1,2,4-Trimethylbenzene
Concen: 116.52 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:105 Resp: 405761

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.4	67.3



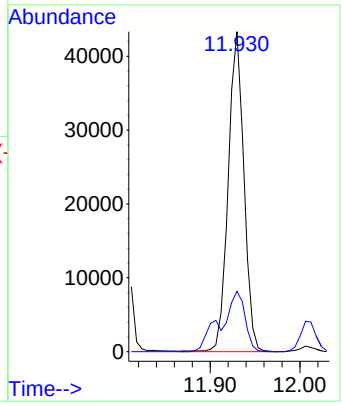
Instrument :
MSVOA_X
ClientSampleId :
MW-5R

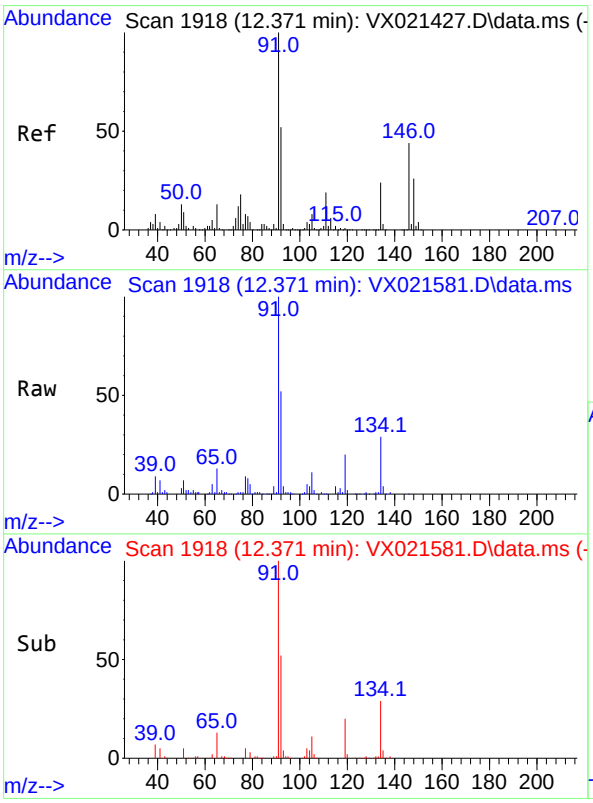


#85
sec-Butylbenzene
Concen: 13.57 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:105 Resp: 52653

Ion	Ratio	Lower	Upper
105	100		
134	29.0	10.0	29.8

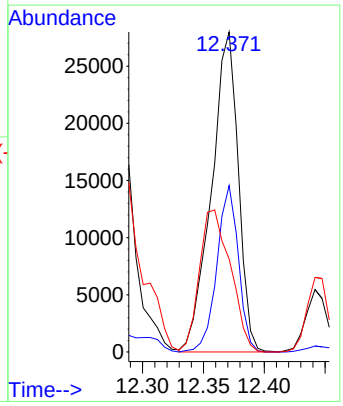




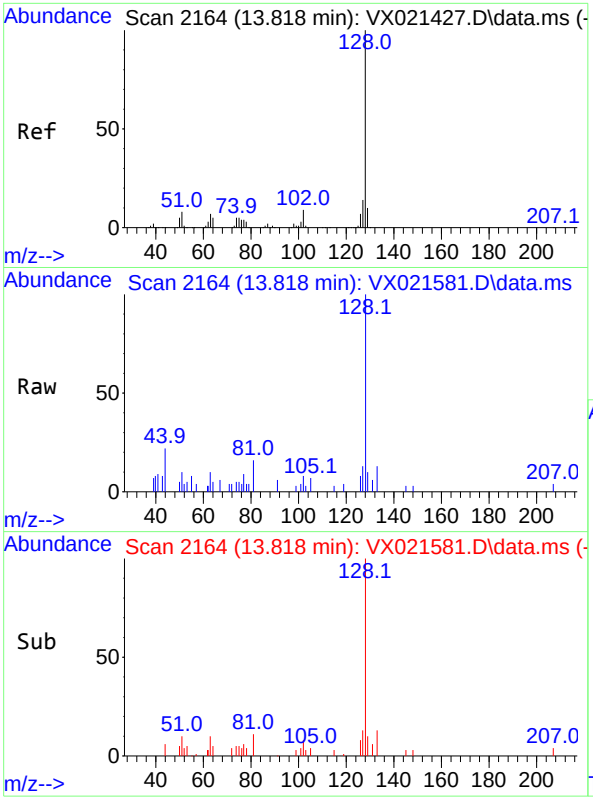
#89
n-Butylbenzene
Concen: 13.29 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion: 91 Resp: 43017

Ion	Ratio	Lower	Upper
91	100		
92	41.6	27.4	82.0
134	51.2	13.2	39.5#



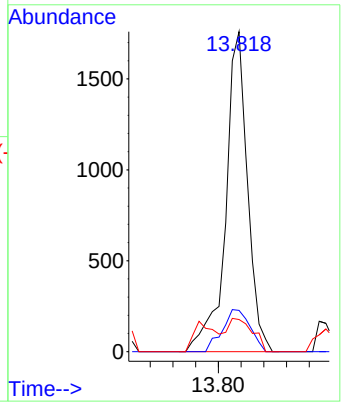
Instrument :
MSVOA_X
ClientSampleId :
MW-5R



#95
Naphthalene
Concen: 0.63 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021581.D
Acq: 29 Mar 2021 16:49

Tgt Ion:128 Resp: 2347

Ion	Ratio	Lower	Upper
128	100		
127	16.7	10.3	15.5#
129	12.4	8.8	13.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-5R

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

Signal : TIC: VX021581.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.464	732	744	757	rBV	46947	133909	11.29%	1.612%
2	5.629	762	772	783	rVV2	67417	190303	16.05%	2.291%
3	6.029	830	840	852	rBV	51564	135370	11.42%	1.629%
4	6.829	966	976	989	rBV	118244	276206	23.29%	3.324%
5	8.694	1287	1293	1310	rVB	247169	392056	33.06%	4.719%
6	10.094	1525	1531	1540	rBV	274205	371454	31.32%	4.471%
7	10.235	1548	1555	1560	rBV	14641	20983	1.77%	0.253%
8	10.341	1561	1573	1579	rBV	77126	119752	10.10%	1.441%
9	10.624	1608	1621	1628	rBV6	9603	25354	2.14%	0.305%
10	10.818	1644	1654	1659	rVB2	19782	32803	2.77%	0.395%
11	10.894	1659	1667	1672	rBV2	18465	31727	2.68%	0.382%
12	11.000	1680	1685	1690	rBV	145451	186239	15.71%	2.242%
13	11.118	1700	1705	1710	rBV	228562	305869	25.79%	3.682%
14	11.165	1710	1713	1717	rVB2	10625	14051	1.18%	0.169%
15	11.259	1725	1729	1734	rVB3	16053	23432	1.98%	0.282%
16	11.341	1738	1743	1751	rBV	299582	362679	30.58%	4.365%
17	11.418	1751	1756	1762	rVV	148109	184003	15.52%	2.215%
18	11.489	1762	1768	1777	rVB	231100	289474	24.41%	3.484%
19	11.653	1791	1796	1804	rVB3	23280	35084	2.96%	0.422%
20	11.753	1808	1813	1815	rVV	36319	47300	3.99%	0.569%
21	11.789	1815	1819	1830	rVB	983967	1185824	100.00%	14.273%
22	11.900	1830	1838	1840	rBV	48275	68994	5.82%	0.830%
23	11.930	1840	1843	1848	rVV	109363	132738	11.19%	1.598%
24	12.006	1848	1856	1860	rVV	47429	67779	5.72%	0.816%
25	12.059	1860	1865	1871	rVV	315733	386308	32.58%	4.650%
26	12.124	1871	1876	1882	rVV	392332	460517	38.84%	5.543%
27	12.218	1886	1892	1898	rVB	45864	60496	5.10%	0.728%
28	12.283	1898	1903	1911	rBV	361147	510732	43.07%	6.147%
29	12.353	1911	1915	1924	rVB2	139338	261404	22.04%	3.146%
30	12.442	1924	1930	1937	rBV	73694	91497	7.72%	1.101%
31	12.571	1946	1952	1954	rBV	59853	83788	7.07%	1.008%
32	12.595	1954	1956	1959	rVV	59773	59814	5.04%	0.720%
33	12.653	1959	1966	1969	rVV	274476	343572	28.97%	4.135%
34	12.683	1969	1971	1976	rVV	85509	96615	8.15%	1.163%
35	12.742	1976	1981	1988	rVV3	188968	332568	28.05%	4.003%
36	12.883	1999	2005	2010	rVB2	52851	81976	6.91%	0.987%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-5R

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

37	12.959	2010	2018	2022	rBV	149146	203939	17.20%	2.455%
38	13.001	2022	2025	2032	rVB2	69985	84089	7.09%	1.012%
39	13.065	2032	2036	2042	rBV3	22270	34874	2.94%	0.420%
40	13.136	2042	2048	2051	rBV	18853	24991	2.11%	0.301%
41	13.177	2051	2055	2057	rBV2	23988	26560	2.24%	0.320%
42	13.206	2057	2060	2064	rVB	25072	27829	2.35%	0.335%
43	13.295	2070	2075	2076	rBV2	12506	16071	1.36%	0.193%
44	13.324	2076	2080	2087	rVB2	258088	362650	30.58%	4.365%
45	13.459	2100	2103	2108	rVB	17231	21950	1.85%	0.264%
46	13.583	2120	2124	2127	rVV	12141	16949	1.43%	0.204%
47	13.624	2127	2131	2135	rVV2	23235	35619	3.00%	0.429%
48	13.677	2135	2140	2142	rVV2	12529	22869	1.93%	0.275%
49	13.701	2142	2144	2151	rVB2	18987	27165	2.29%	0.327%

Sum of corrected areas: 8308225

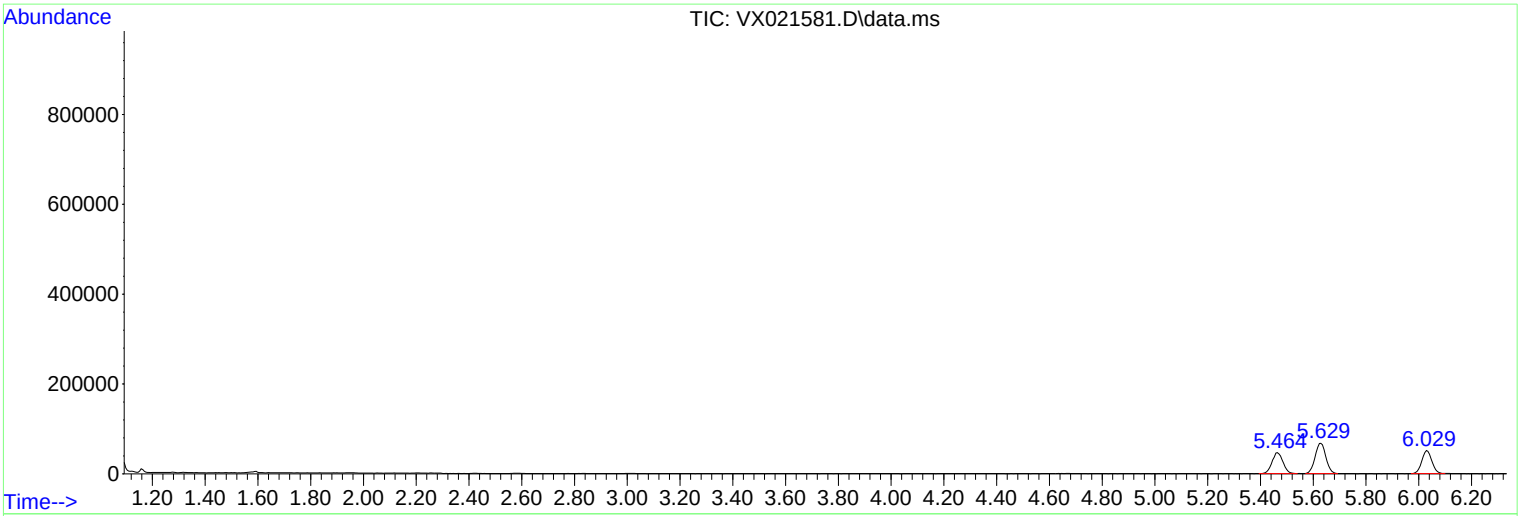
Sample Results: **VX021581.D**

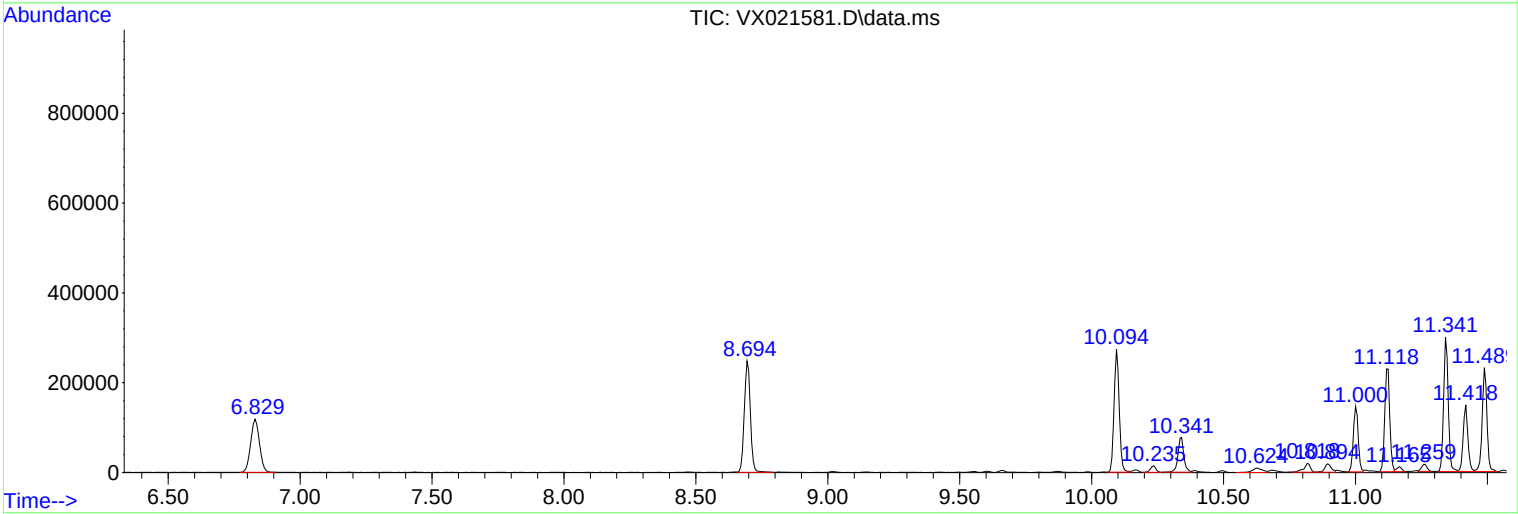
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

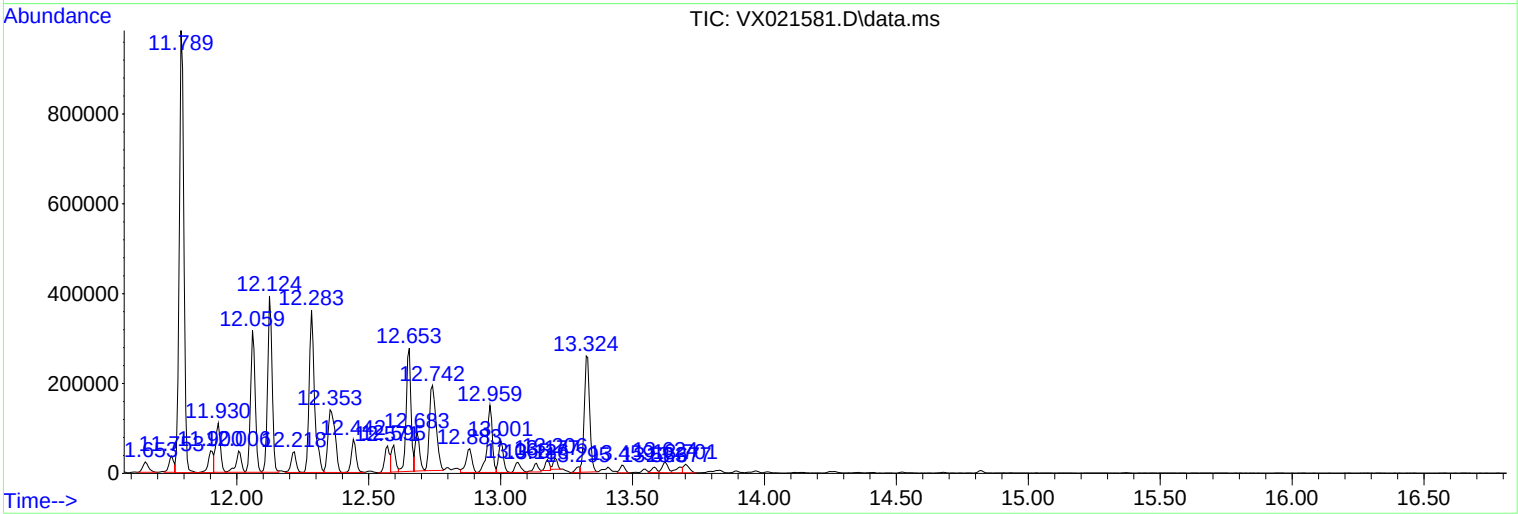
Instrument :
MSVOA_X
ClientSampleId :
MW-5R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-5R

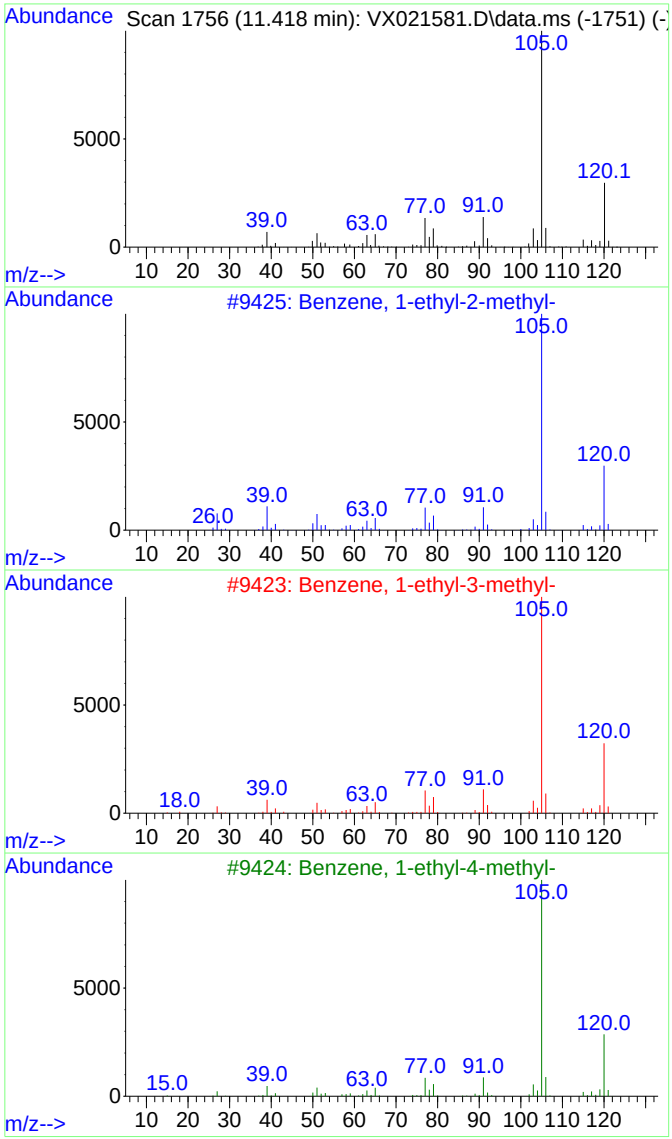
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Quant Title : SW846 8260

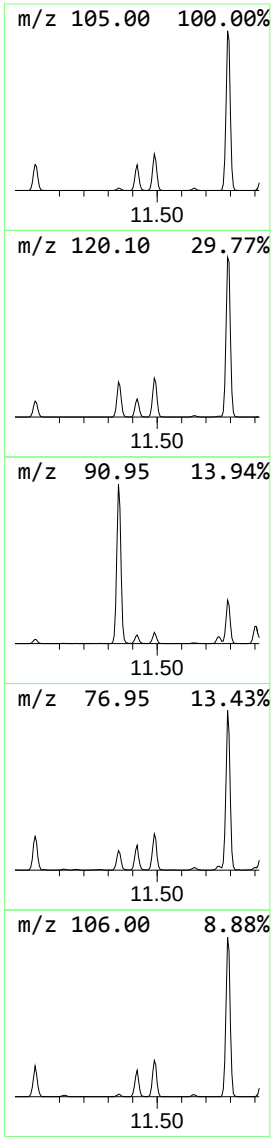
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Benzene, 1-ethyl-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.418	23.82 ug/l	184003	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	94
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
4	Mesitylene	120	C9H12	000108-67-8	91
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-5R

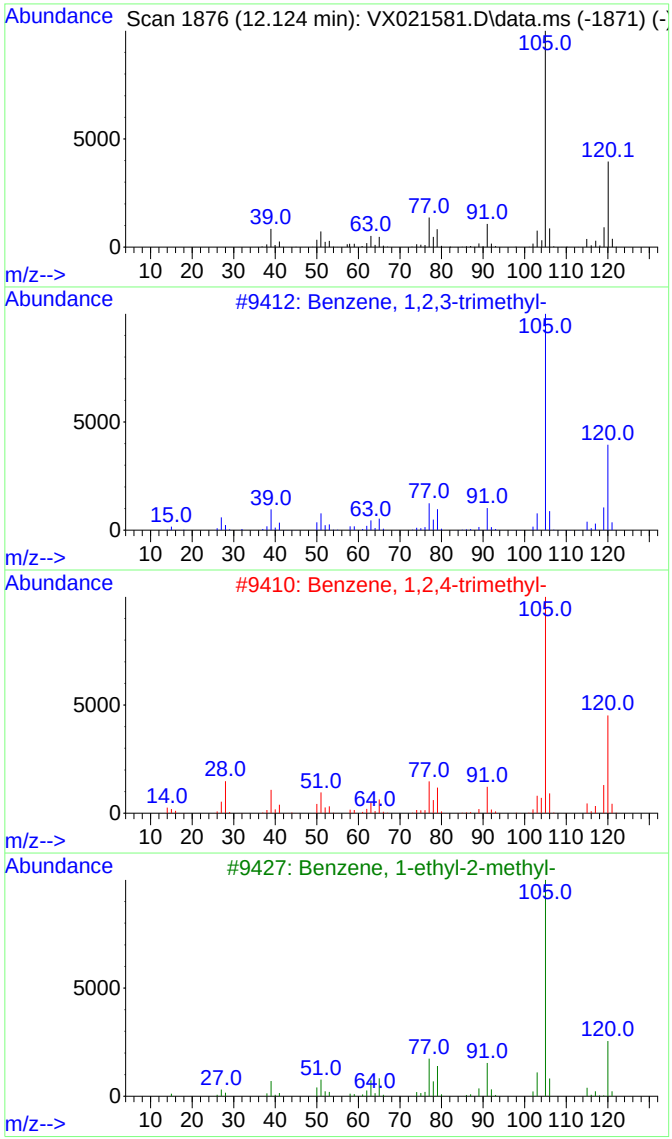
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

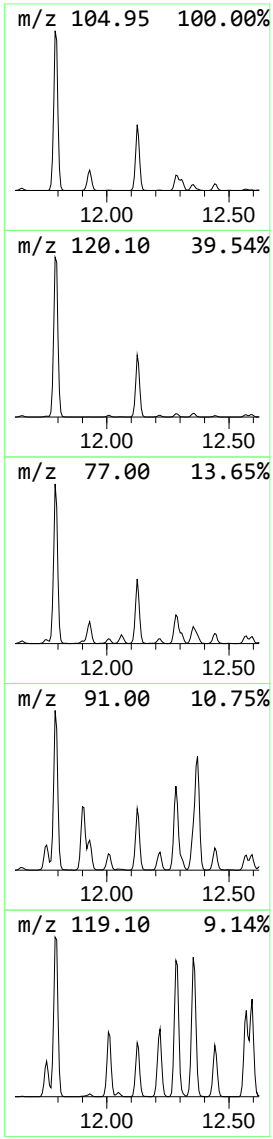
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Benzene, 1,2,3-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.124	59.60 ug/l	460517	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	97
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
5	Mesitylene	120	C9H12	000108-67-8	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-5R

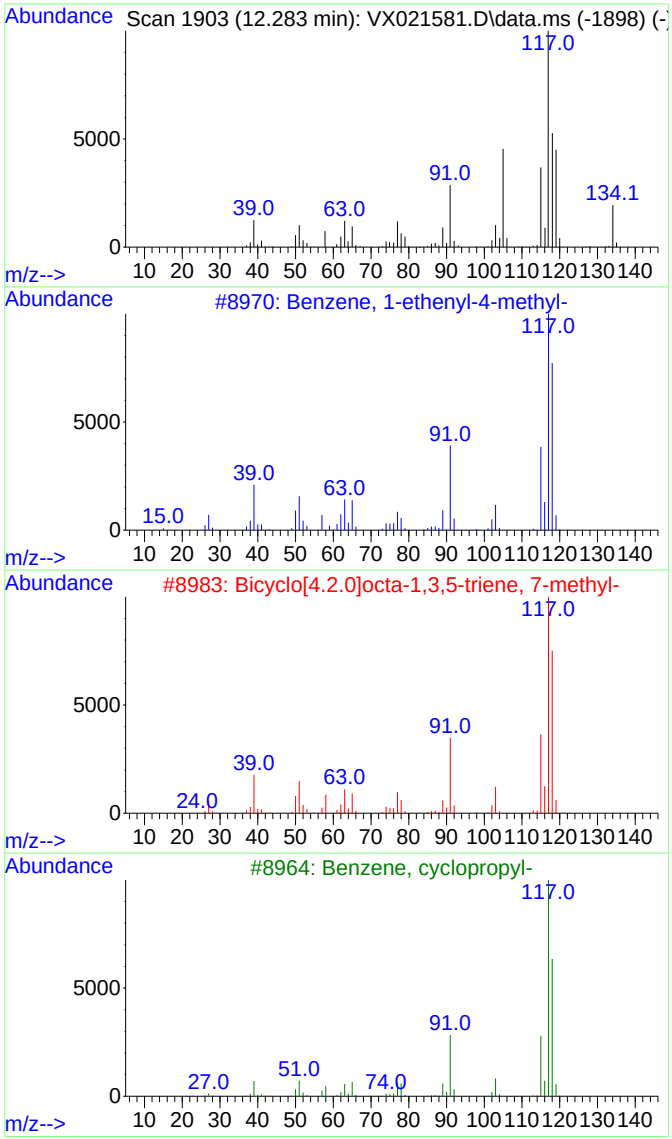
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

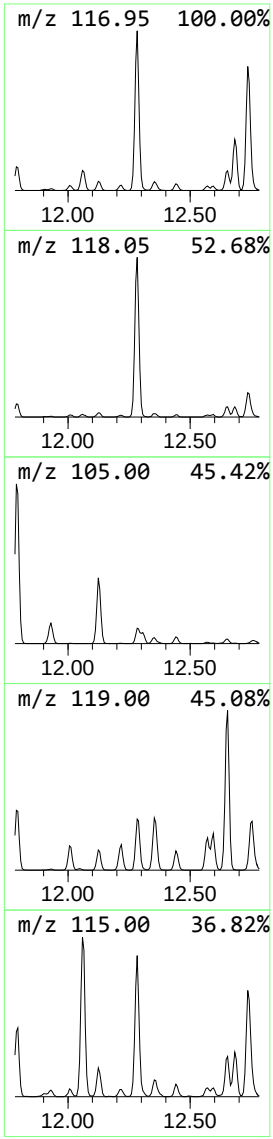
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 1-ethenyl-4-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.283	66.10 ug/l	510732	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	86
2	Bicyclo[4.2.0]octa-1,3,5-triene,...	118	C9H10	055337-80-9	83
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	64
4	Benzene, 1-propenyl-	118	C9H10	000637-50-3	64
5	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-5R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

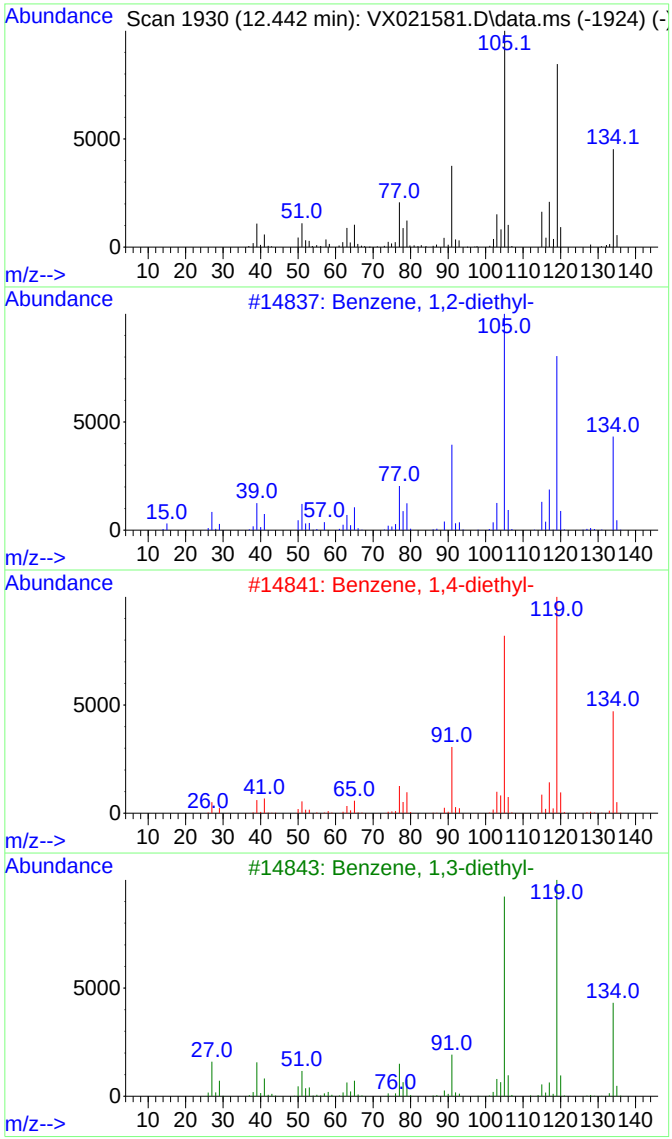
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TIC Integration Parameters: LSCINT.P

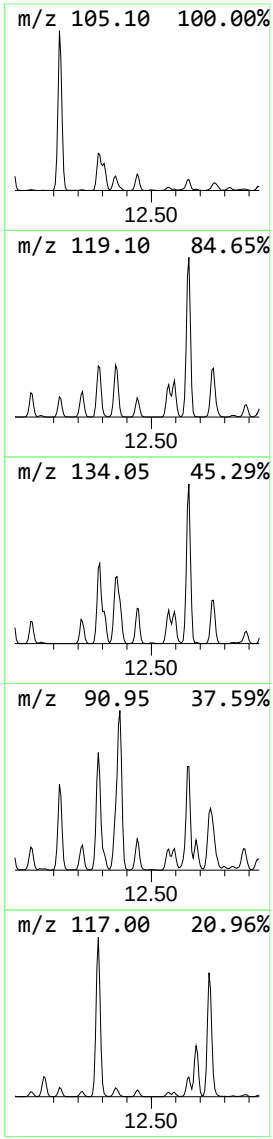
****

Peak Number 4 Benzene, 1,2-diethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.442	11.84 ug/l	91497	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	98
2	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	90
3	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	87
4	o-Cymene	134	C10H14	000527-84-4	68
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	68





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-5R

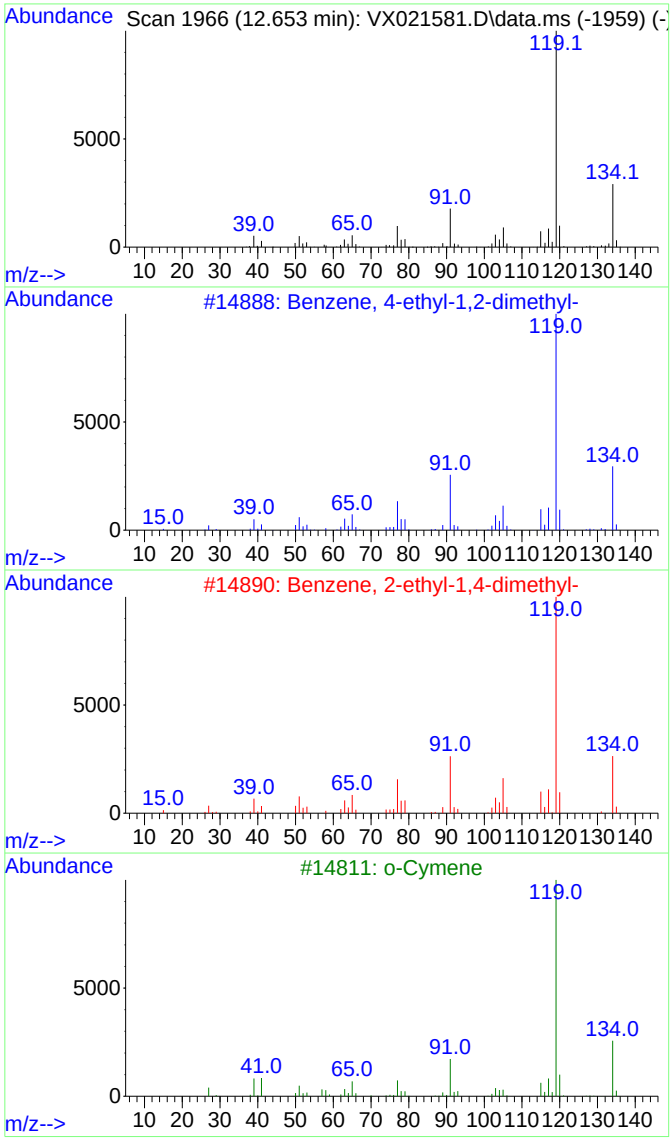
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

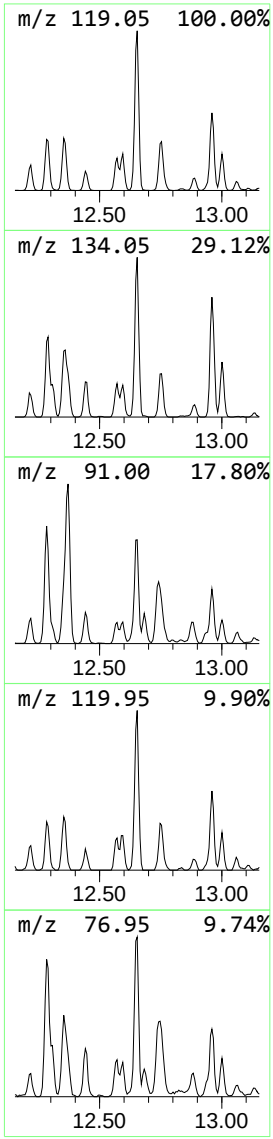
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.653	44.47 ug/l	343572	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	97
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
3	o-Cymene	134	C10H14	000527-84-4	95
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-5R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

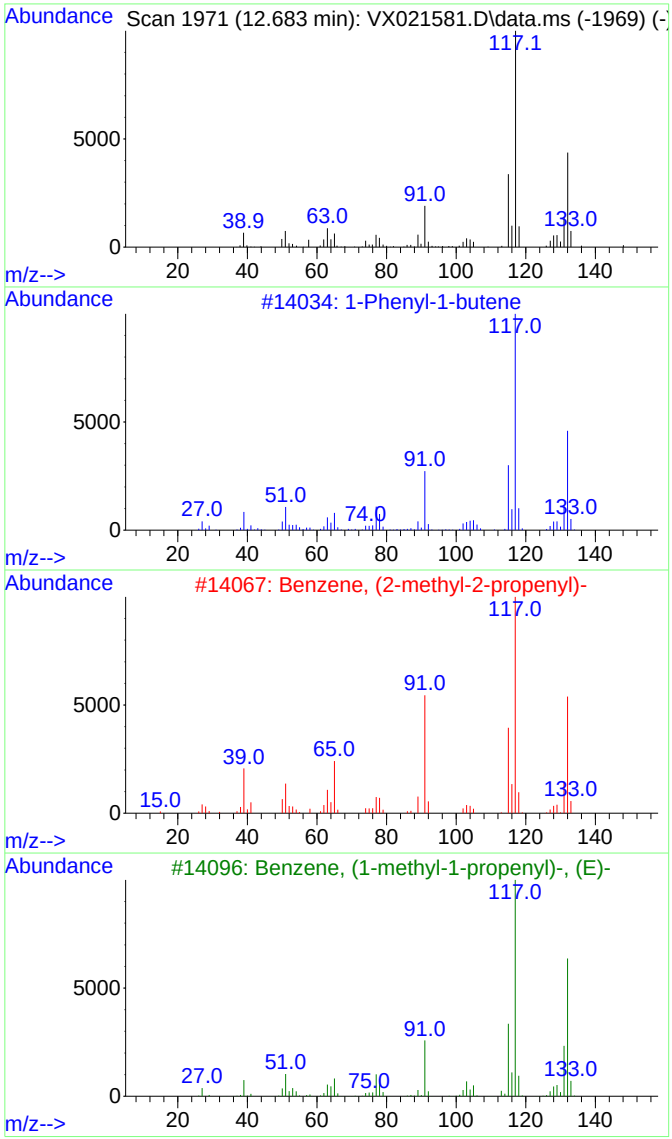
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TIC Integration Parameters: LSCINT.P

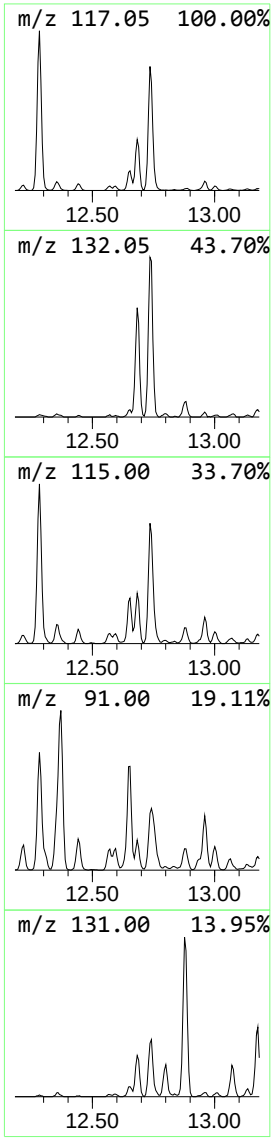
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Peak Number 6 1-Phenyl-1-butene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.683	12.50 ug/l	96615	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-1-butene	132	C10H12	000824-90-8	94
2	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	94
3	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	91
4	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	91
5	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-5R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

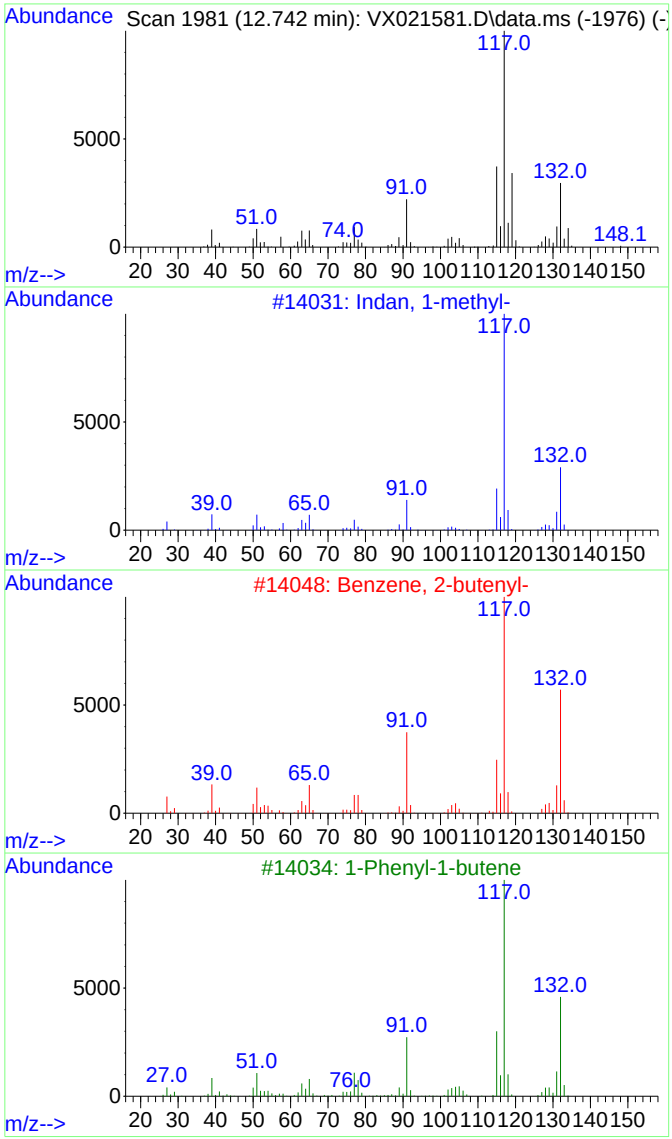
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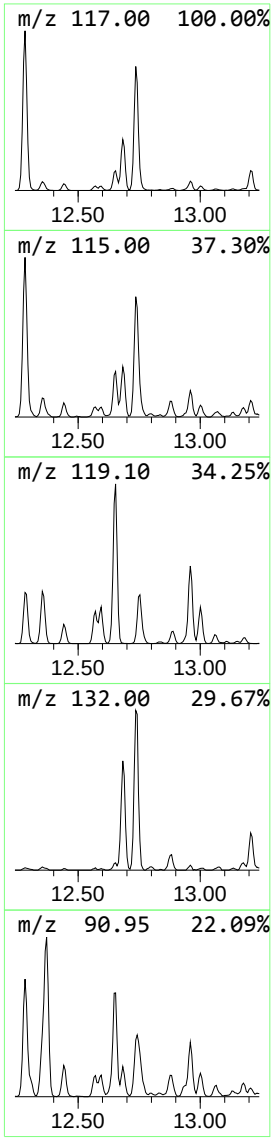
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Peak Number 7 Indan, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.742	43.04 ug/l	332568	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	87
2	Benzene, 2-butenyl-	132	C10H12	001560-06-1	87
3	1-Phenyl-1-butene	132	C10H12	000824-90-8	87
4	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	87
5	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	83





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-5R

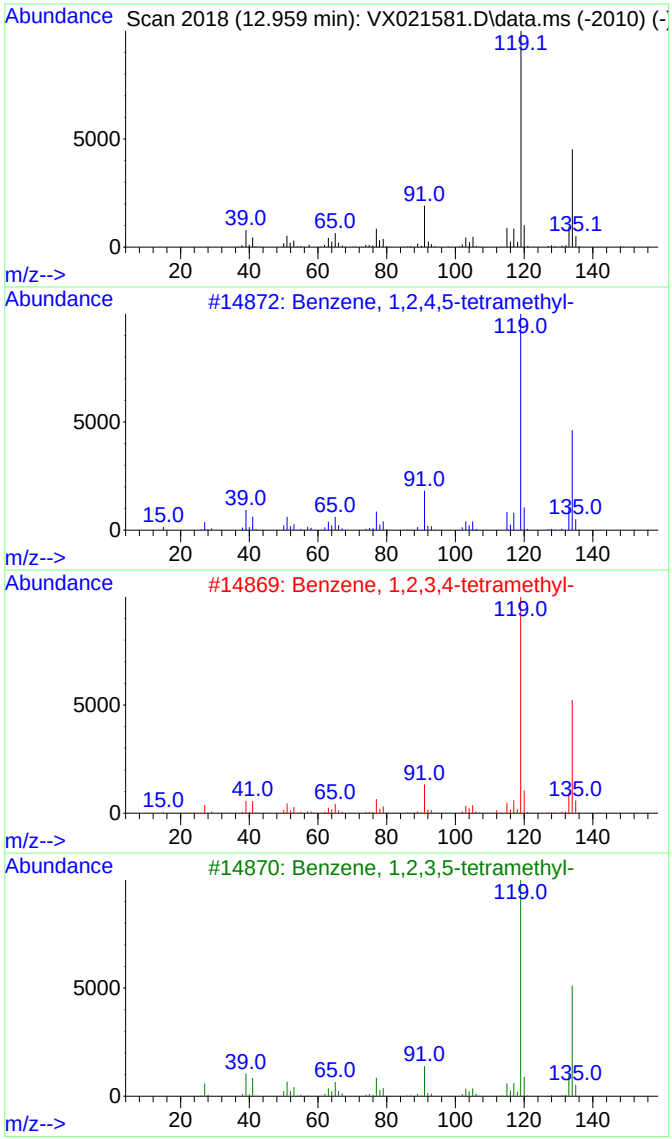
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Quant Title : SW846 8260

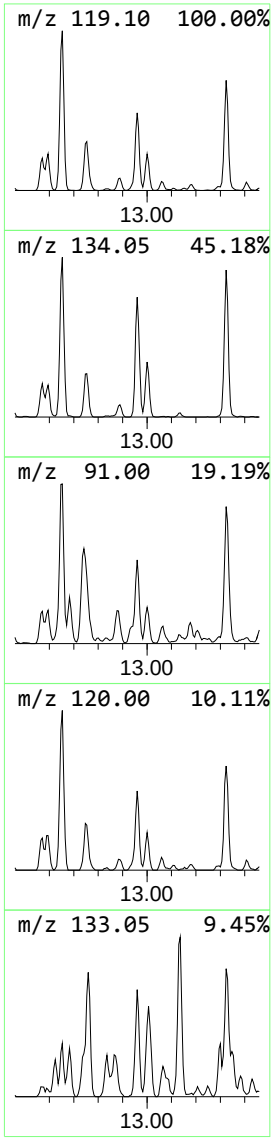
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.959	26.40 ug/l	203939	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
4	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	93
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-5R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

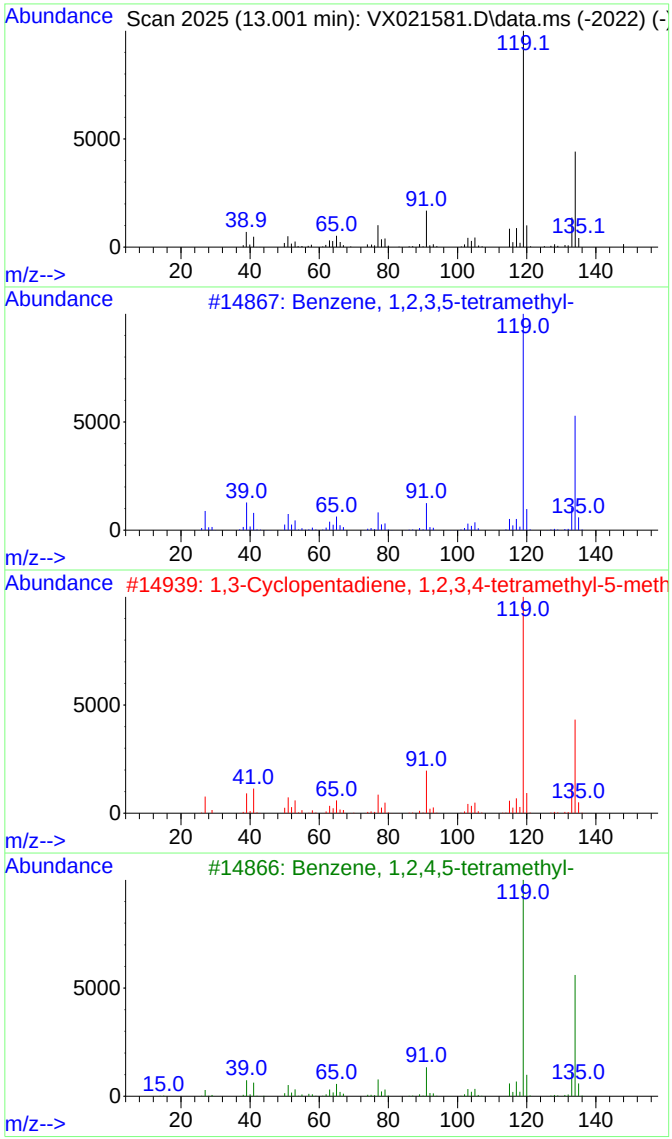
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TIC Integration Parameters: LSCINT.P

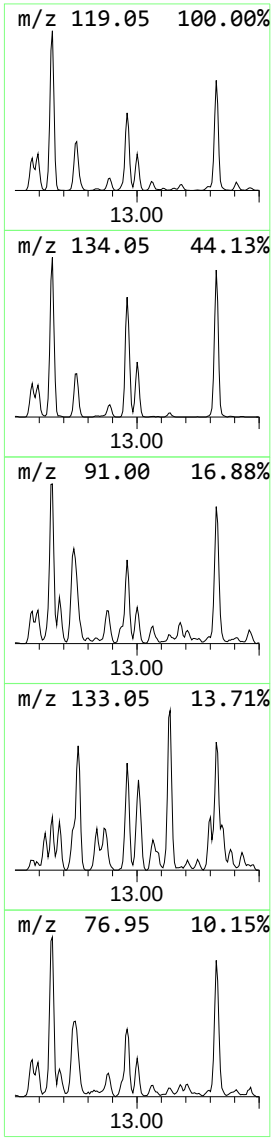
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Peak Number 9 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.001	10.88 ug/l	84089	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
2	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	94
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	93
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-5R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

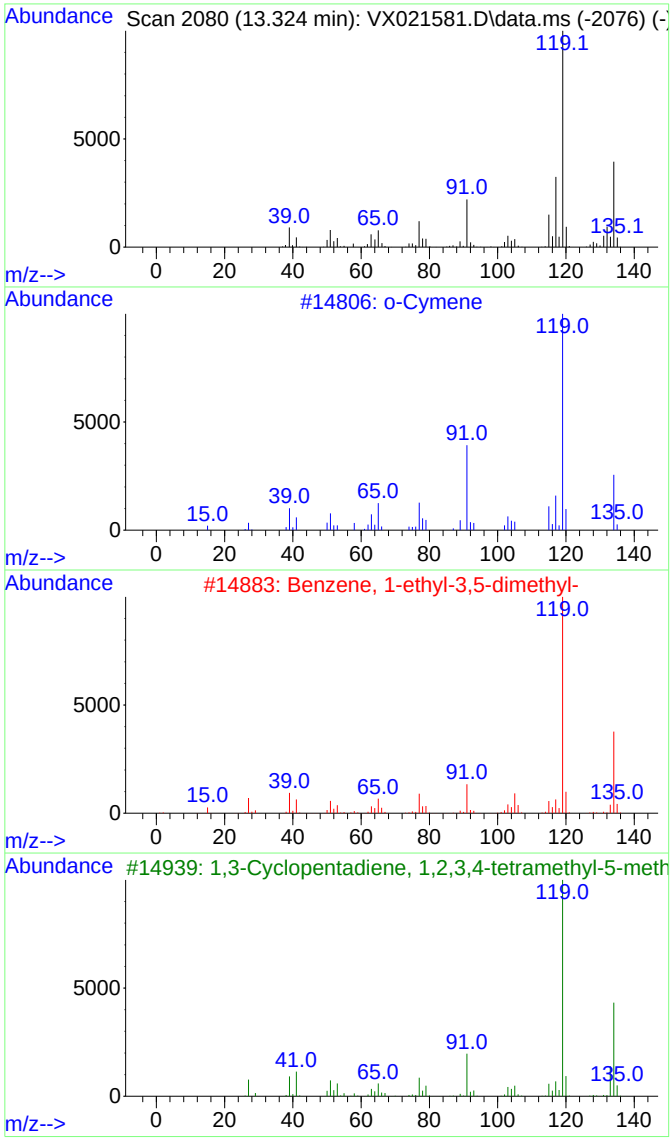
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

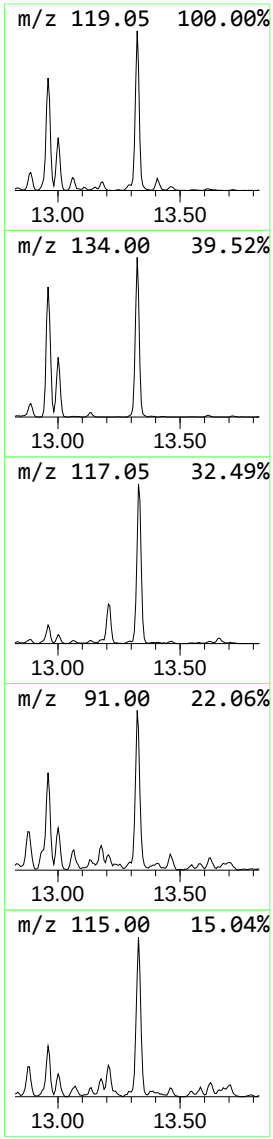
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Peak Number 10 o-Cymene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.324	46.94 ug/l	362650	1,4-Dichlorobenzene-d4	12.059

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	81
2	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	81
3	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	81
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	76
5	p-Cymene	134	C10H14	000099-87-6	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021581.D
Acq On : 29 Mar 2021 16:49
Operator : JC/MD
Sample : M1785-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-5R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzene, 1-ethy...	11.418	23.8	ug/l	184003	4	12.059	386308	50.0
Benzene, 1,2,3-...	12.124	59.6	ug/l	460517	4	12.059	386308	50.0
Benzene, 1-ethe...	12.283	66.1	ug/l	510732	4	12.059	386308	50.0
Benzene, 1,2-di...	12.442	11.8	ug/l	91497	4	12.059	386308	50.0
Benzene, 4-ethy...	12.653	44.5	ug/l	343572	4	12.059	386308	50.0
1-Phenyl-1-butene	12.683	12.5	ug/l	96615	4	12.059	386308	50.0
Indan, 1-methyl-	12.742	43.0	ug/l	332568	4	12.059	386308	50.0
Benzene, 1,2,4,...	12.959	26.4	ug/l	203939	4	12.059	386308	50.0
Benzene, 1,2,3,...	13.001	10.9	ug/l	84089	4	12.059	386308	50.0
o-Cymene	13.324	46.9	ug/l	362650	4	12.059	386308	50.0

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	FD-032321	SDG No.:	M1785
Lab Sample ID:	M1785-17	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021578.D	10		03/29/21 15:39	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	10.0	U	2.30	10.0	ug/L
74-87-3	Chloromethane	10.0	U	2.00	10.0	ug/L
75-01-4	Vinyl Chloride	10.0	U	1.90	10.0	ug/L
74-83-9	Bromomethane	50.0	U	8.70	50.0	ug/L
75-00-3	Chloroethane	10.0	U	3.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	U	2.50	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	10.0	U	2.10	10.0	ug/L
75-35-4	1,1-Dichloroethene	10.0	U	2.60	10.0	ug/L
67-64-1	Acetone	50.0	U	16.1	50.0	ug/L
75-15-0	Carbon Disulfide	10.0	U	2.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	U	2.20	10.0	ug/L
79-20-9	Methyl Acetate	10.0	U	4.70	10.0	ug/L
75-09-2	Methylene Chloride	10.0	U	1.80	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	U	1.90	10.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	U	2.10	10.0	ug/L
110-82-7	Cyclohexane	50.0	U	13.0	50.0	ug/L
78-93-3	2-Butanone	50.0	U	9.00	50.0	ug/L
56-23-5	Carbon Tetrachloride	10.0	U	2.70	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	10.0	U	2.20	10.0	ug/L
74-97-5	Bromochloromethane	10.0	U	2.60	10.0	ug/L
67-66-3	Chloroform	10.0	U	2.70	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	U	2.00	10.0	ug/L
108-87-2	Methylcyclohexane	10.0	U	1.40	10.0	ug/L
71-43-2	Benzene	10.0	U	1.80	10.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	U	2.50	10.0	ug/L
79-01-6	Trichloroethene	3.20	J	1.70	10.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	U	1.70	10.0	ug/L
75-27-4	Bromodichloromethane	10.0	U	2.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	U	8.70	50.0	ug/L
108-88-3	Toluene	10.0	U	2.20	10.0	ug/L
10061-02-6	t-1,3-Dichloropropene	10.0	U	1.80	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	U	1.70	10.0	ug/L

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	FD-032321	SDG No.:	M1785
Lab Sample ID:	M1785-17	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021578.D	10		03/29/21 15:39	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	10.0	U	2.40	10.0	ug/L
591-78-6	2-Hexanone	50.0	U	9.20	50.0	ug/L
124-48-1	Dibromochloromethane	10.0	U	1.80	10.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	U	1.60	10.0	ug/L
127-18-4	Tetrachloroethene	10.0	U	1.70	10.0	ug/L
108-90-7	Chlorobenzene	10.0	U	1.70	10.0	ug/L
100-41-4	Ethyl Benzene	20.0		1.80	10.0	ug/L
1330-20-7	Total Xylenes	126		5.10	30.0	ug/L
100-42-5	Styrene	10.0	U	1.60	10.0	ug/L
75-25-2	Bromoform	10.0	U	1.90	10.0	ug/L
98-82-8	Isopropylbenzene	230		2.30	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	U	2.90	10.0	ug/L
103-65-1	n-propylbenzene	450		2.40	10.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	320		2.50	10.0	ug/L
98-06-6	tert-Butylbenzene	39.3		2.60	10.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	1400		2.00	10.0	ug/L
135-98-8	sec-Butylbenzene	160		2.30	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	U	1.90	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	U	2.00	10.0	ug/L
104-51-8	n-Butylbenzene	140		1.90	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	U	1.90	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	10.0	U	4.70	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	U	3.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	10.0	U	3.50	10.0	ug/L
123-91-1	1,4-Dioxane	1000	U	69.8	1000	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	48.9		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		83 - 123	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	60300	5.629			
540-36-3	1,4-Difluorobenzene	110000	6.829			

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	FD-032321	SDG No.:	M1785
Lab Sample ID:	M1785-17	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021578.D	10		03/29/21 15:39	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
3114-55-4	Chlorobenzene-d5	109000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	50700	12.065			
TENTATIVE IDENTIFIED COMPOUNDS						
179601-23-1	m/p-Xylenes	120	J		10.3	ug/L
95-47-6	o-Xylene	5.50	J		10.7	ug/L
000620-14-4	Benzene, 1-ethyl-3-methyl-	300	J		11.4	ug/L
000526-73-8	Benzene, 1,2,3-trimethyl-	720	J		12.1	ug/L
000611-15-4	Benzene, 1-ethenyl-2-methyl-	790	J		12.3	ug/L
000135-01-3	Benzene, 1,2-diethyl-	150	J		12.4	ug/L
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	120	J		12.6	ug/L
000527-84-4	o-Cymene	490	J		12.7	ug/L
001005-64-7	(E)-1-Phenyl-1-butene	140	J		12.7	ug/L
000767-58-8	Indan, 1-methyl-	500	J		12.7	ug/L
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	290	J		13.0	ug/L
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	540	J		13.3	ug/L
91-20-3	Naphthalene	7.30	J		13.8	ug/L

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FD-032321

Quant Time: Mar 30 03:28:46 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

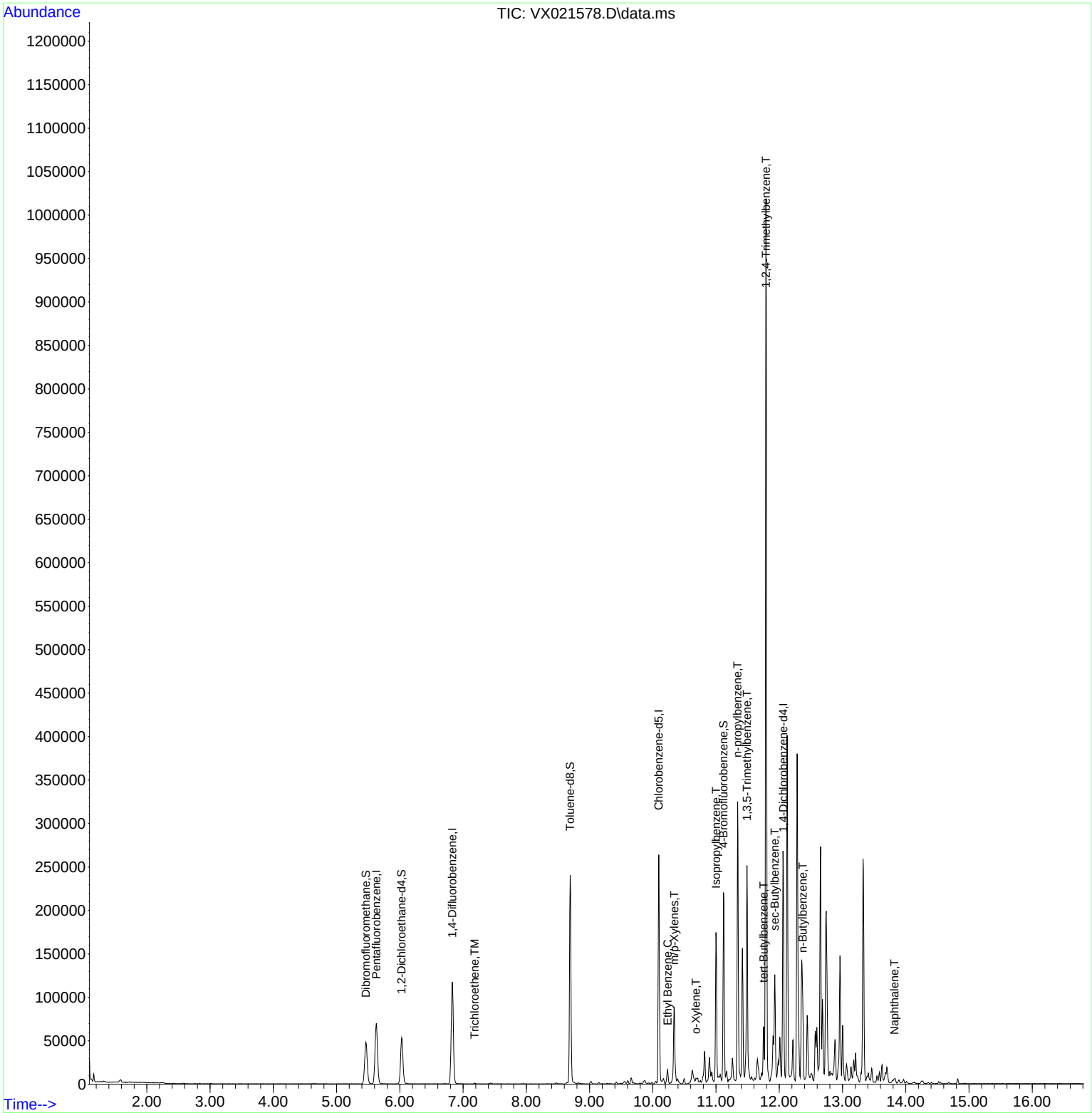
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.629	168	60301	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	109753	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	108566	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.065	152	50719	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.029	65	51927	51.75	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.50%				
35) Dibromofluoromethane	5.464	113	39637	50.84	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.68%				
50) Toluene-d8	8.694	98	135892	48.92	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 97.84%				
62) 4-Bromofluorobenzene	11.118	95	55599	51.48	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.96%				
Target Compounds							Qvalue
44) Trichloroethene	7.182	130	254	0.32	ug/l		71
67) Ethyl Benzene	10.235	91	7966	2.00	ug/l		98
68) m/p-Xylenes	10.341	106	17301	12.22	ug/l		90
69) o-Xylene	10.683	106	749	0.55	ug/l		77
73) Isopropylbenzene	11.000	105	82914	23.27	ug/l		98
78) n-propylbenzene	11.342	91	187261	44.50	ug/l		97
80) 1,3,5-Trimethylbenzene	11.489	105	97557	32.04	ug/l		98
83) tert-Butylbenzene	11.753	119	11658	3.93	ug/l		85
84) 1,2,4-Trimethylbenzene	11.789	105	414531	135.07	ug/l		99
85) sec-Butylbenzene	11.930	105	53076	15.52	ug/l		81
89) n-Butylbenzene	12.371	91	39762	13.94	ug/l	#	70
95) Naphthalene	13.818	128	2414	0.73	ug/l	#	92

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

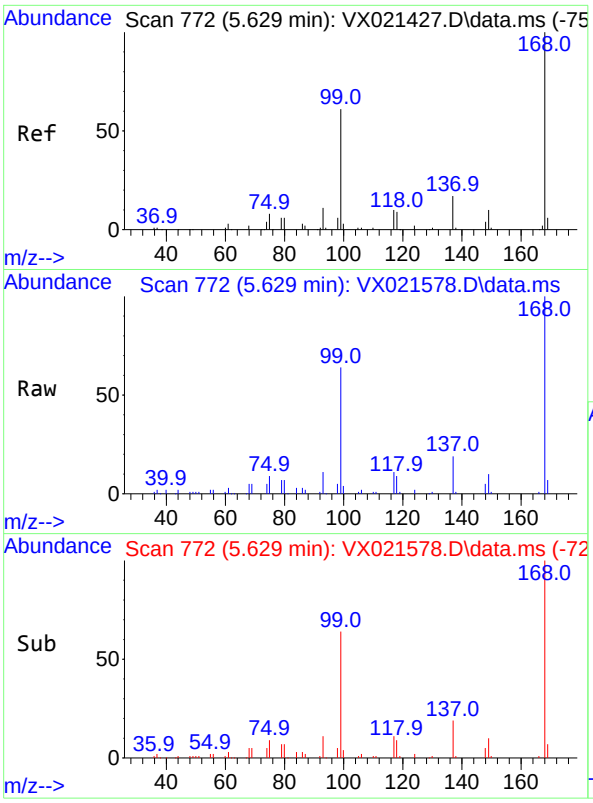
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Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FD-032321

Quant Time: Mar 30 03:28:46 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration



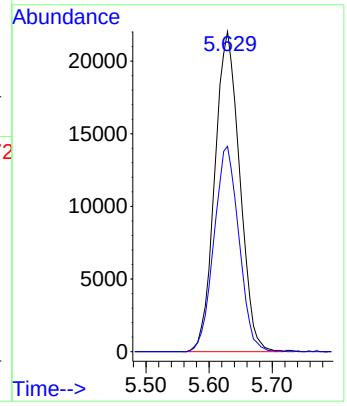
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ClientSampleId :
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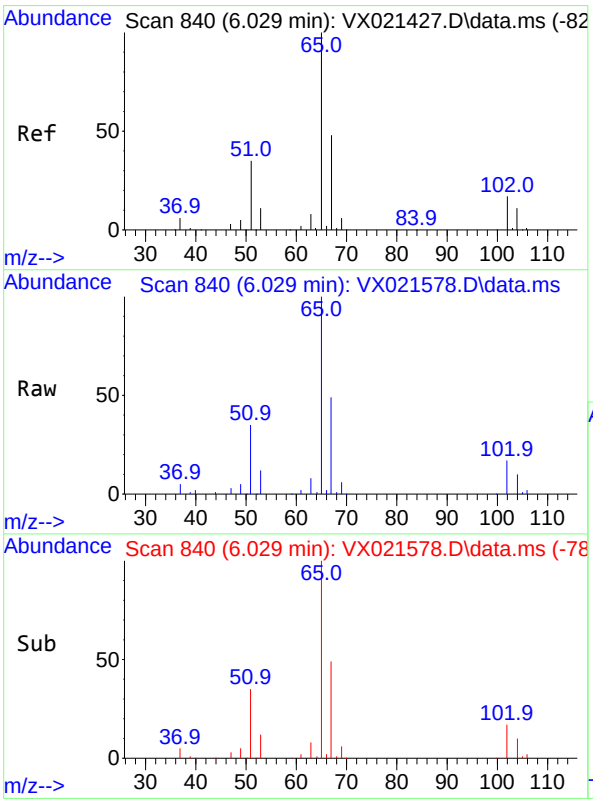


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 772
Delta R.T. 0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:168 Resp: 60301

Ion	Ratio	Lower	Upper
168	100		
99	64.2	45.8	68.6

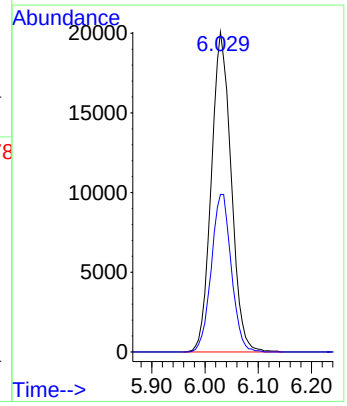




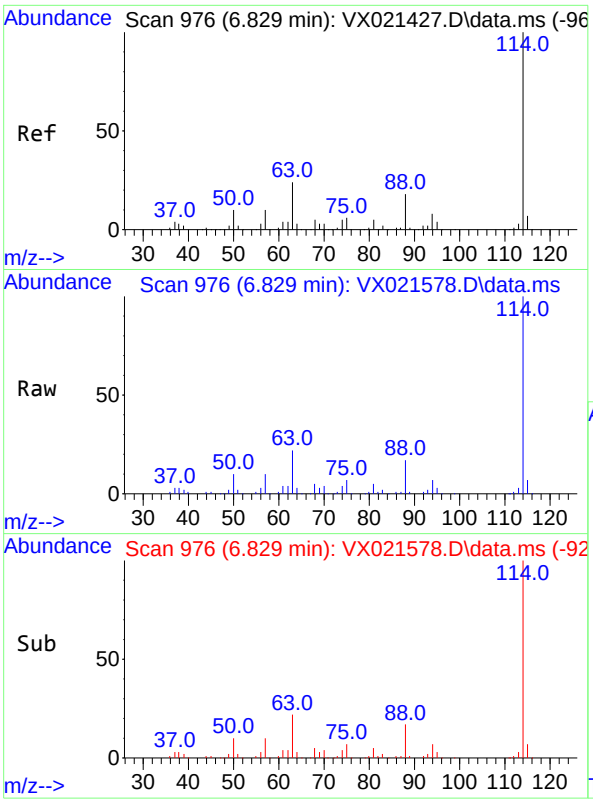
#33
1,2-Dichloroethane-d4
Concen: 51.75 ug/l
RT: 6.029 min Scan# 840
Delta R.T. 0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion: 65 Resp: 51927

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	105.4



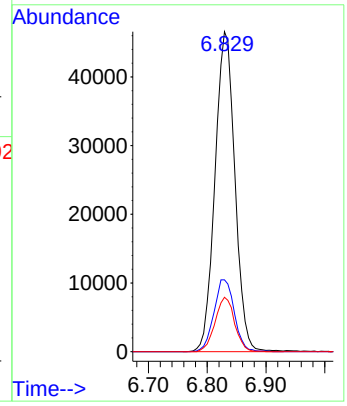
Instrument :
MSVOA_X
ClientSampleId :
FD-032321

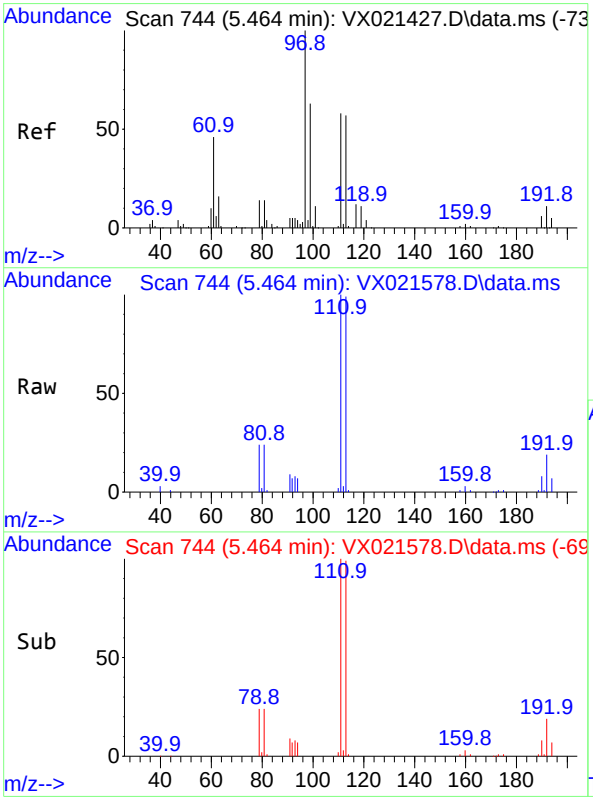


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:114 Resp: 109753

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	40.8
88	17.0	0.0	32.8

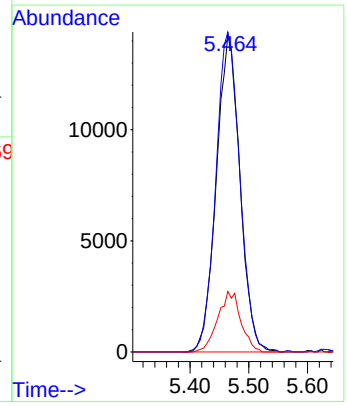




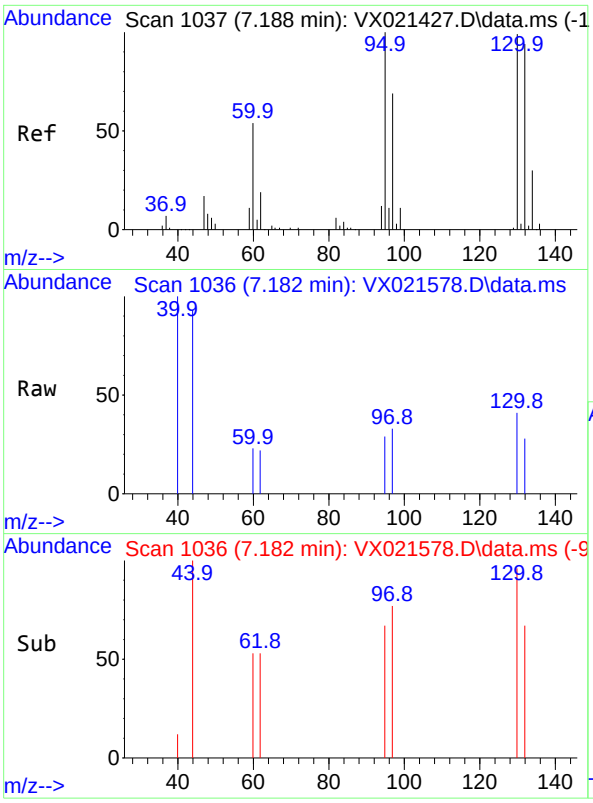
#35
Dibromofluoromethane
Concen: 50.84 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:113 Resp: 39637

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.9	122.9
192	18.6	16.7	25.1



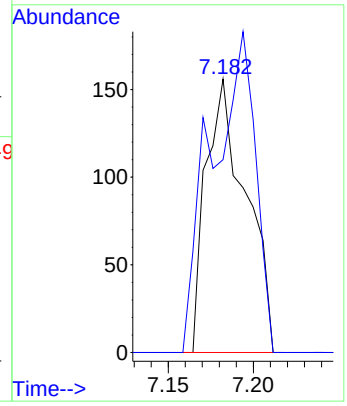
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MSVOA_X
ClientSampleId :
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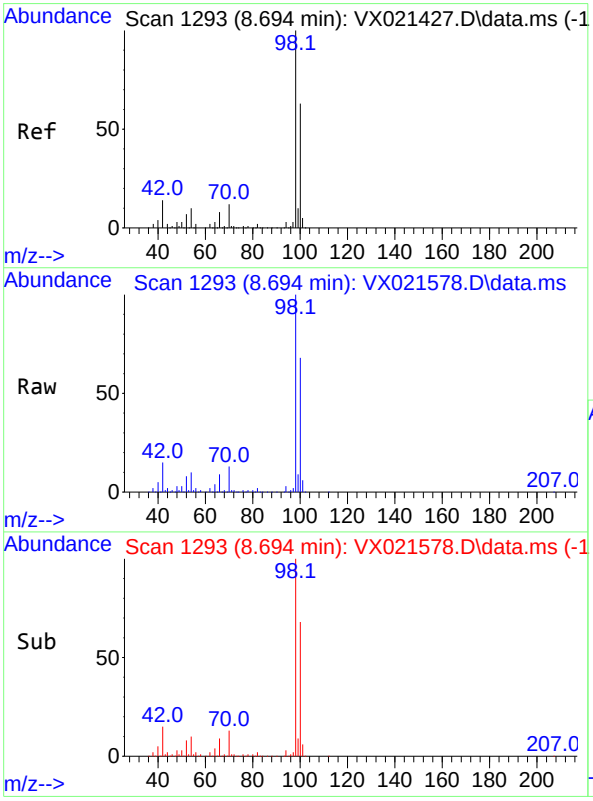


#44
Trichloroethene
Concen: 0.32 ug/l
RT: 7.182 min Scan# 1036
Delta R.T. -0.006 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:130 Resp: 254

Ion	Ratio	Lower	Upper
130	100		
95	70.5	0.0	198.0

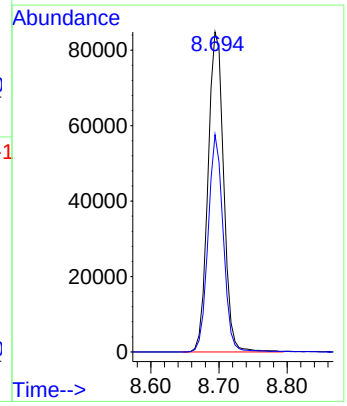




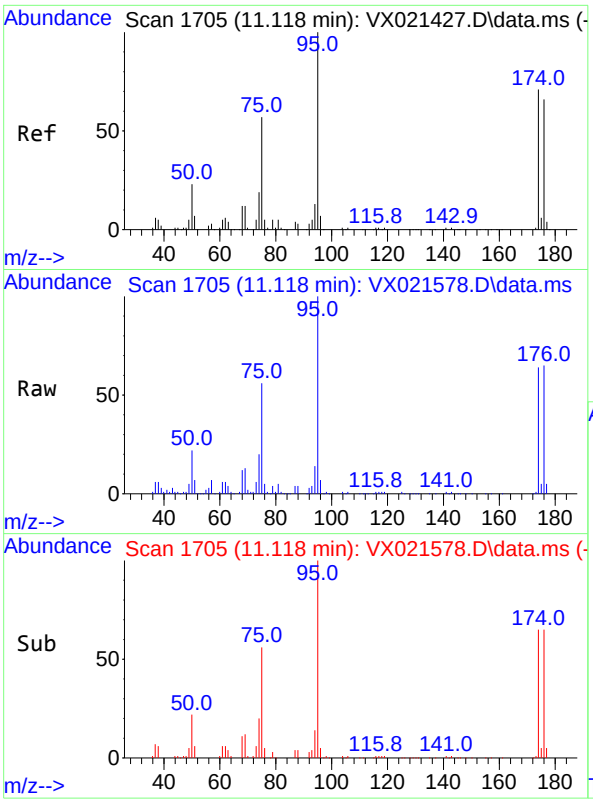
#50
Toluene-d8
Concen: 48.92 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion: 98 Resp: 135892

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.9	77.9



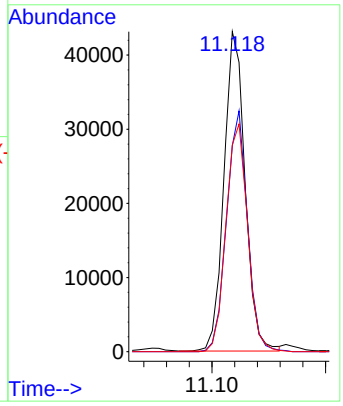
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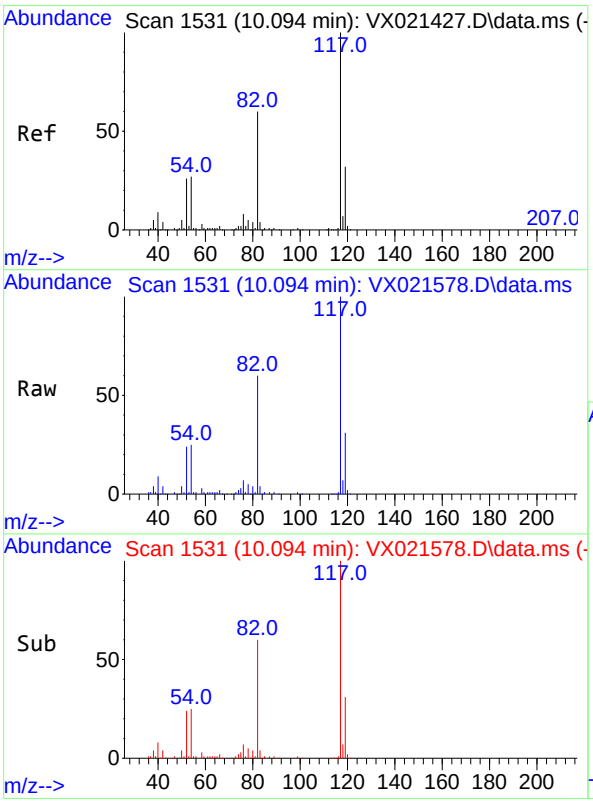


#62
4-Bromofluorobenzene
Concen: 51.48 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion: 95 Resp: 55599

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	154.6
176	72.8	0.0	155.8

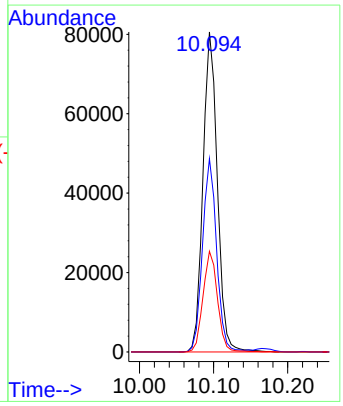




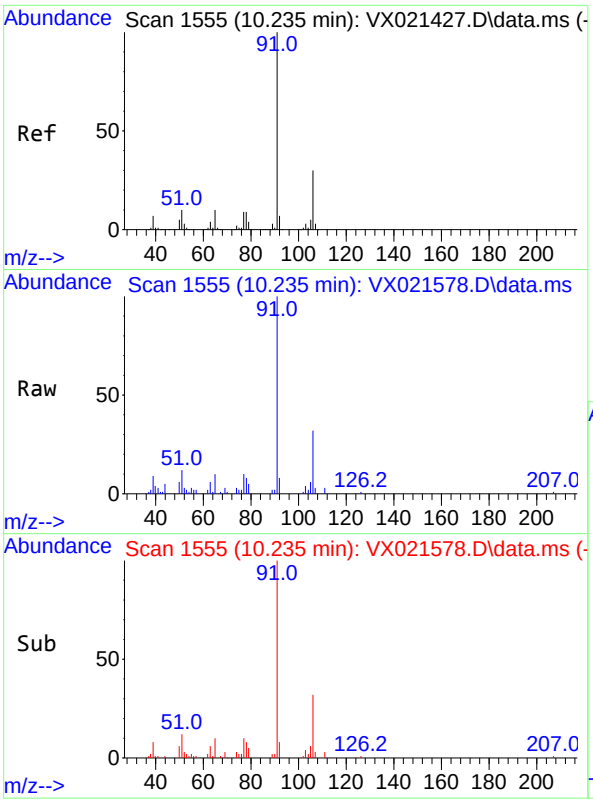
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:117 Resp: 108566

Ion	Ratio	Lower	Upper
117	100		
82	60.4	47.4	71.2
119	31.4	26.6	39.8



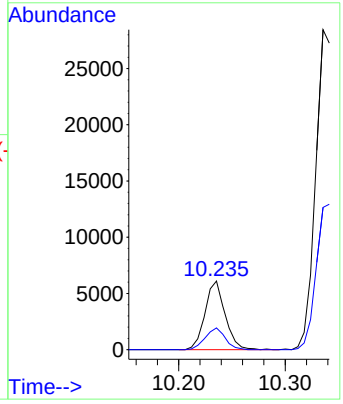
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ClientSampleId :
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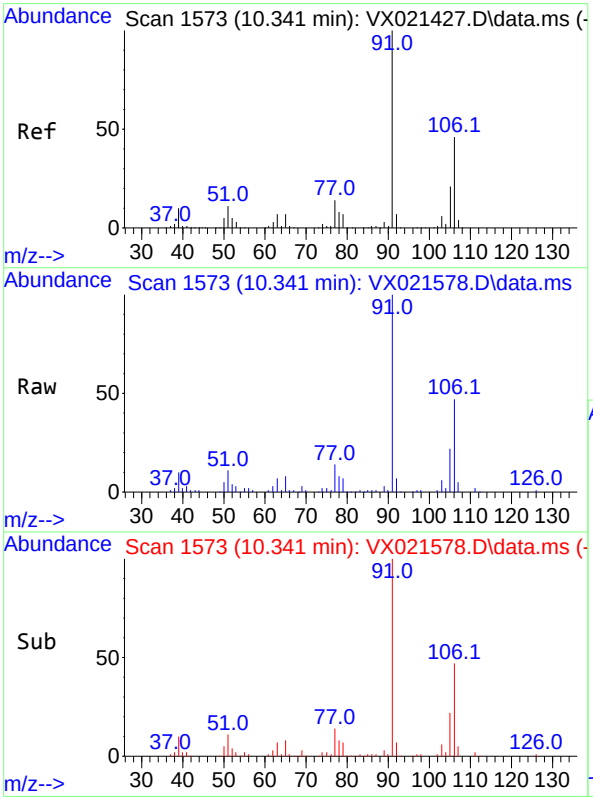


#67
Ethyl Benzene
Concen: 2.00 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion: 91 Resp: 7966

Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.6	37.0

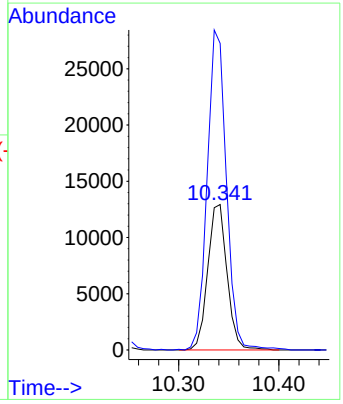




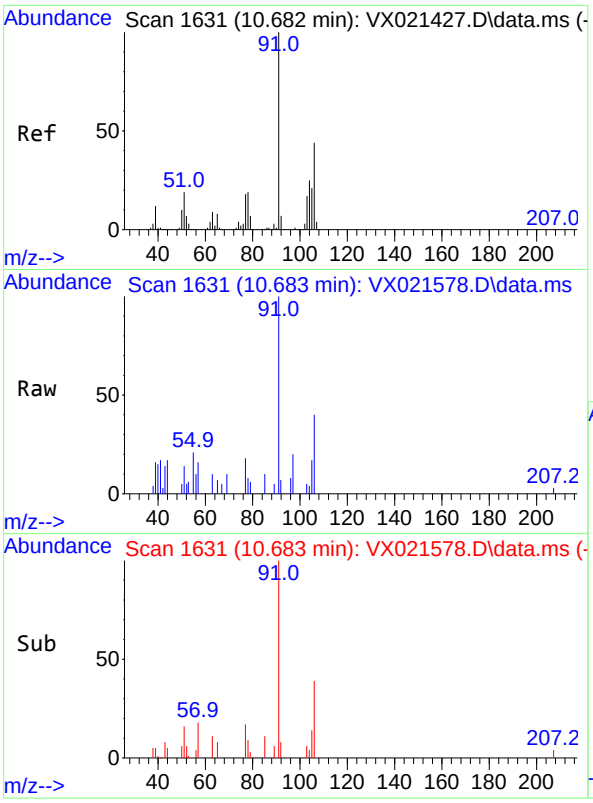
#68
m/p-Xylenes
Concen: 12.22 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:106 Resp: 17301

Ion	Ratio	Lower	Upper
106	100		
91	218.5	162.8	244.2



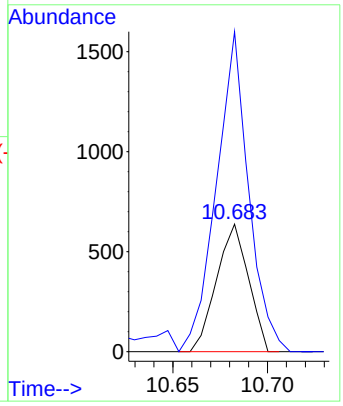
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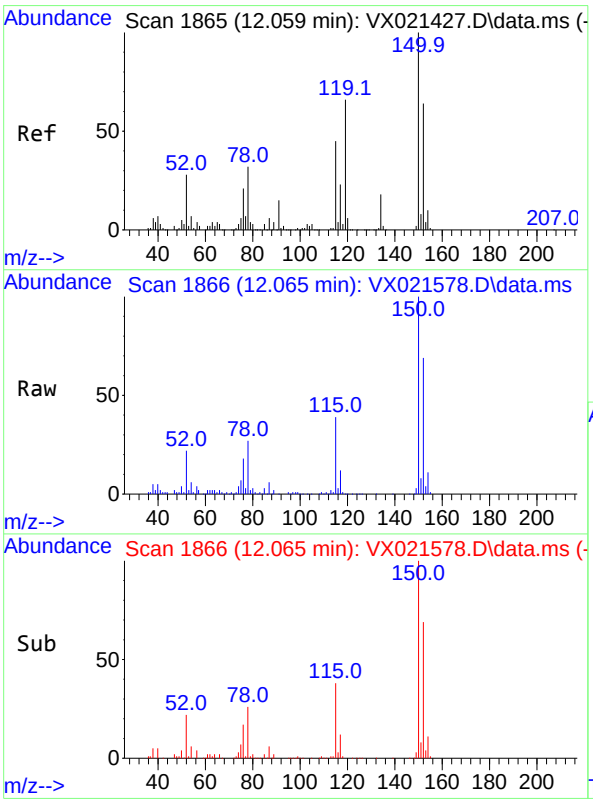


#69
o-Xylene
Concen: 0.55 ug/l
RT: 10.683 min Scan# 1631
Delta R.T. 0.001 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:106 Resp: 749

Ion	Ratio	Lower	Upper
106	100		
91	252.7	108.1	324.2

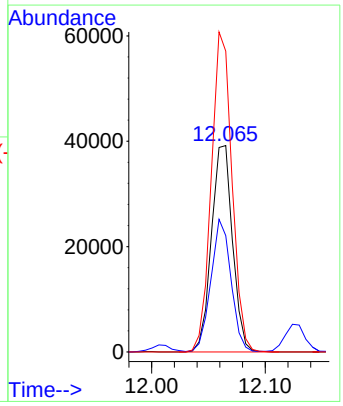




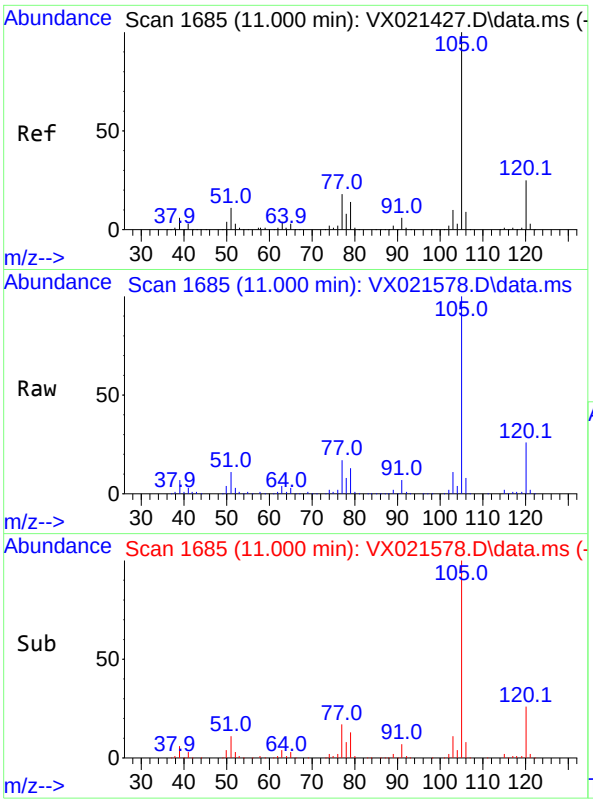
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.065 min Scan# 1866
Delta R.T. 0.006 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:152 Resp: 50719

Ion	Ratio	Lower	Upper
152	100		
115	60.9	41.1	123.3
150	151.4	0.0	349.0



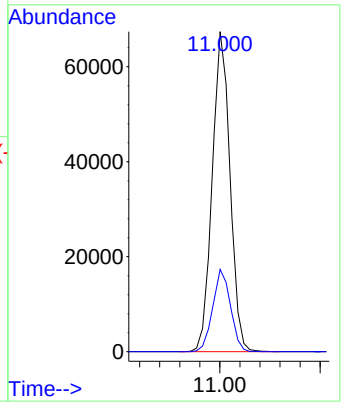
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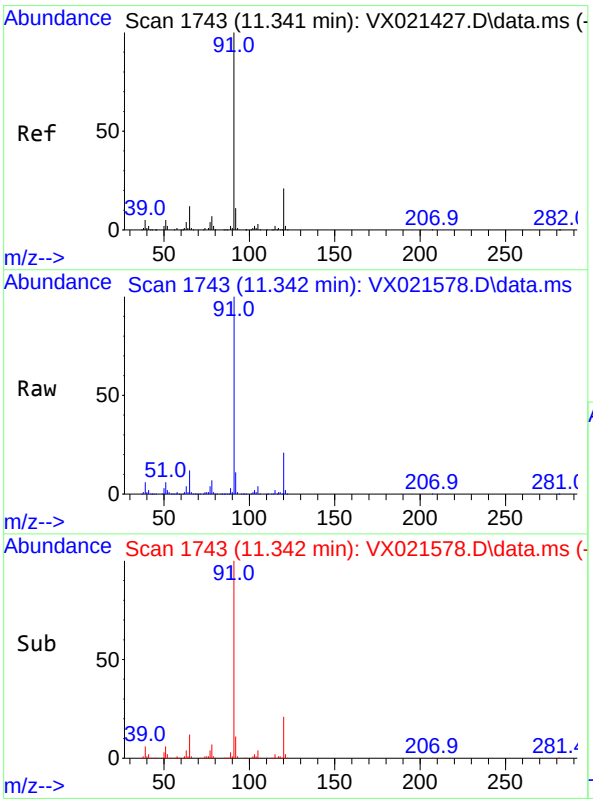


#73
Isopropylbenzene
Concen: 23.27 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:105 Resp: 82914

Ion	Ratio	Lower	Upper
105	100		
120	25.6	13.2	39.6

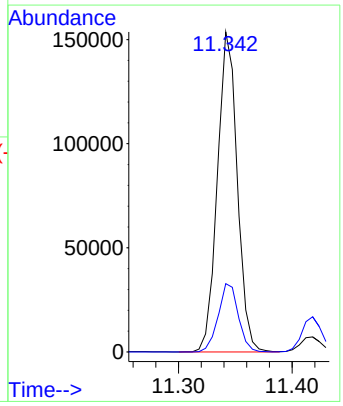




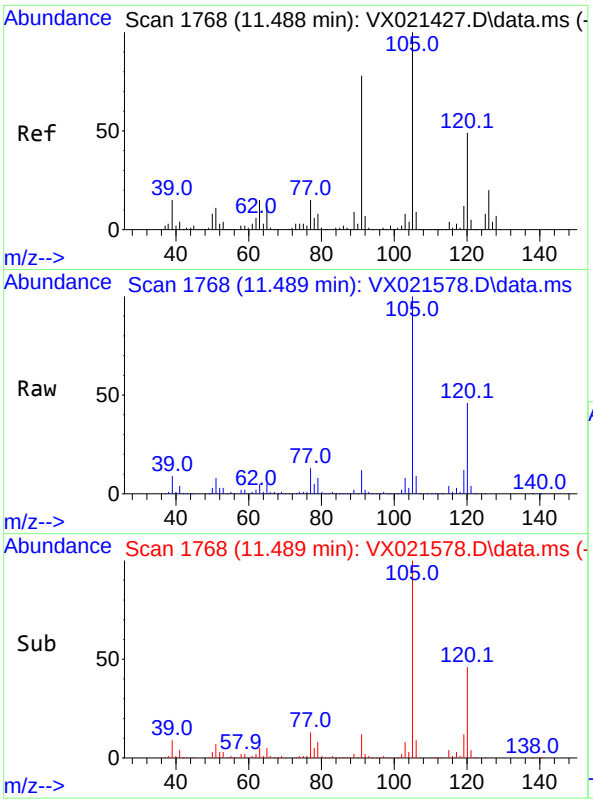
#78
n-propylbenzene
Concen: 44.50 ug/l
RT: 11.342 min Scan# 1743
Delta R.T. 0.001 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion: 91 Resp: 187261

Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.5	34.5



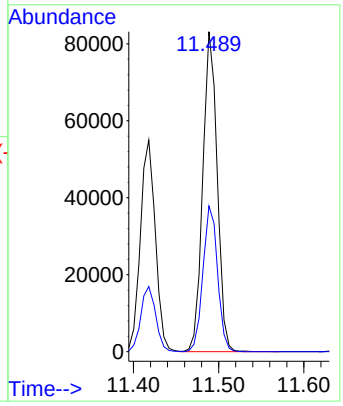
Instrument :
MSVOA_X
ClientSampleId :
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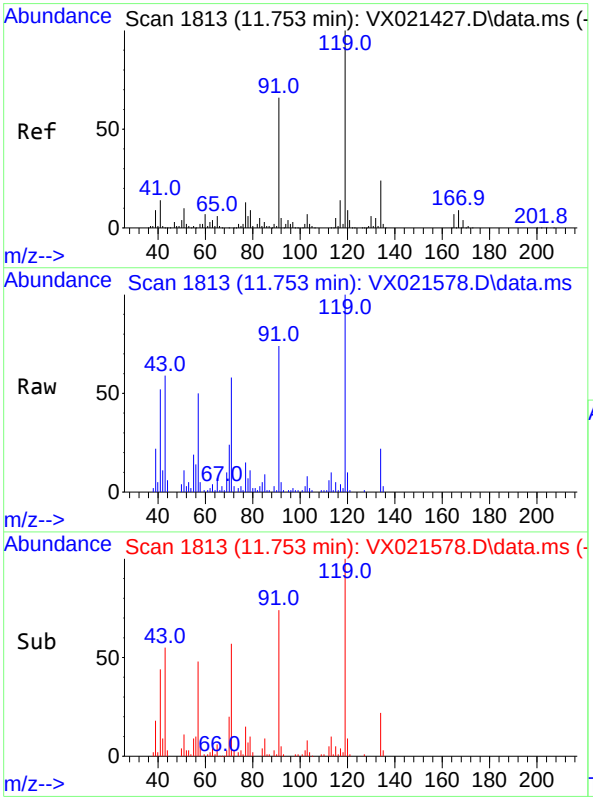


#80
1,3,5-Trimethylbenzene
Concen: 32.04 ug/l
RT: 11.489 min Scan# 1768
Delta R.T. 0.001 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:105 Resp: 97557

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.8	71.5

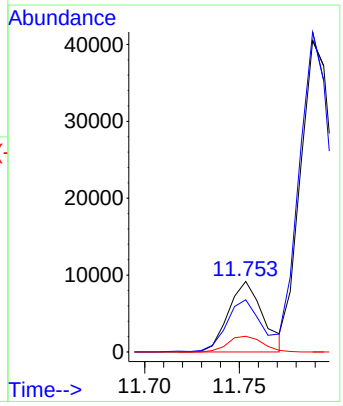




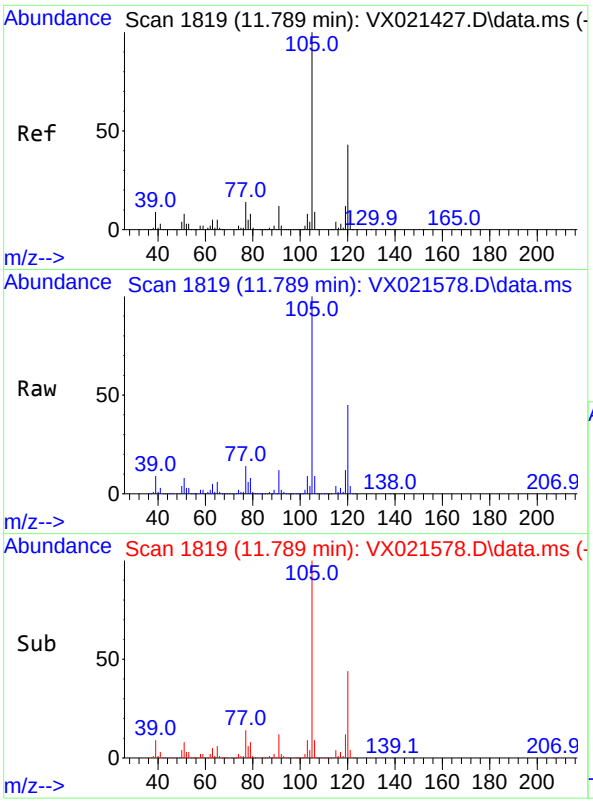
#83
tert-Butylbenzene
Concen: 3.93 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:119 Resp: 11658

Ion	Ratio	Lower	Upper
119	100		
91	71.3	27.9	83.7
134	22.4	11.3	33.9



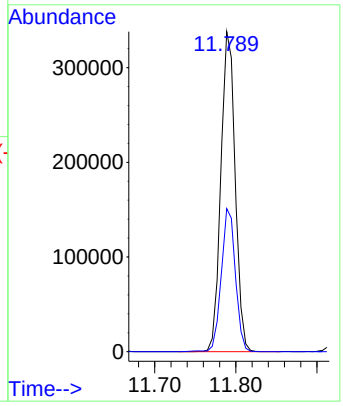
Instrument :
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ClientSampleId :
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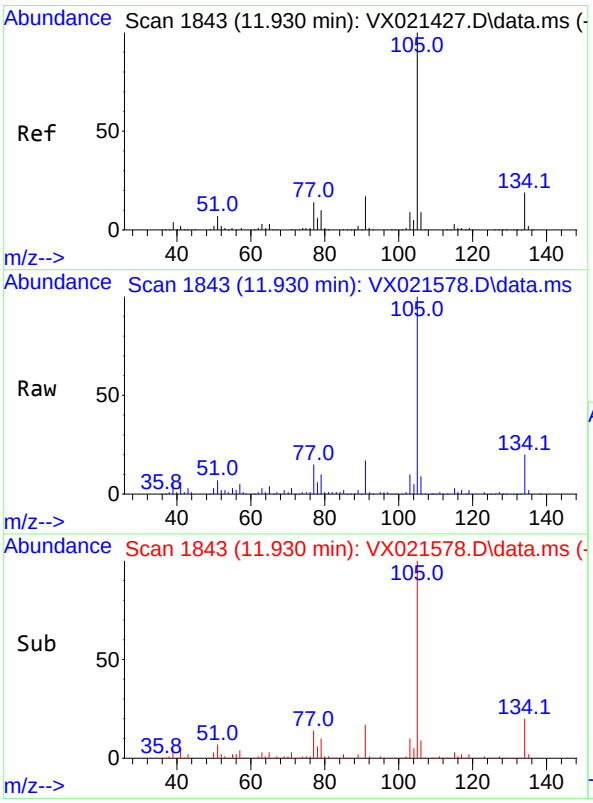


#84
1,2,4-Trimethylbenzene
Concen: 135.07 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:105 Resp: 414531

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.4	67.3

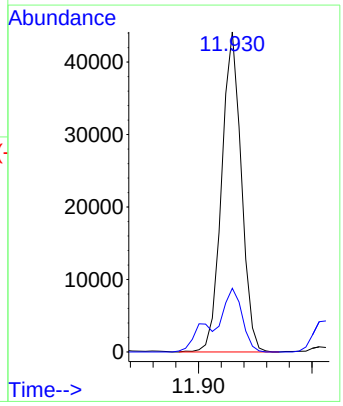




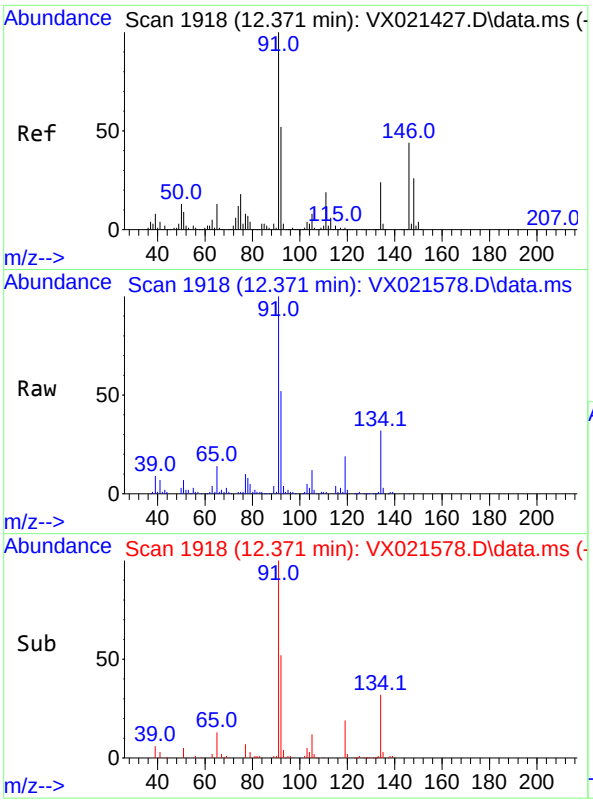
#85
sec-Butylbenzene
Concen: 15.52 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:105 Resp: 53076

Ion	Ratio	Lower	Upper
105	100		
134	28.5	10.0	29.8



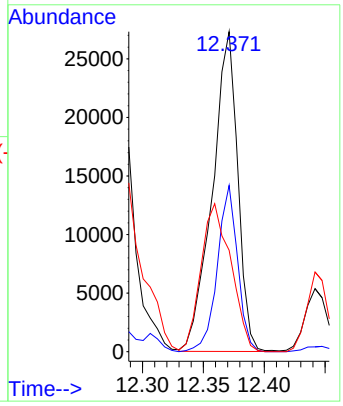
Instrument :
MSVOA_X
ClientSampleId :
FD-032321

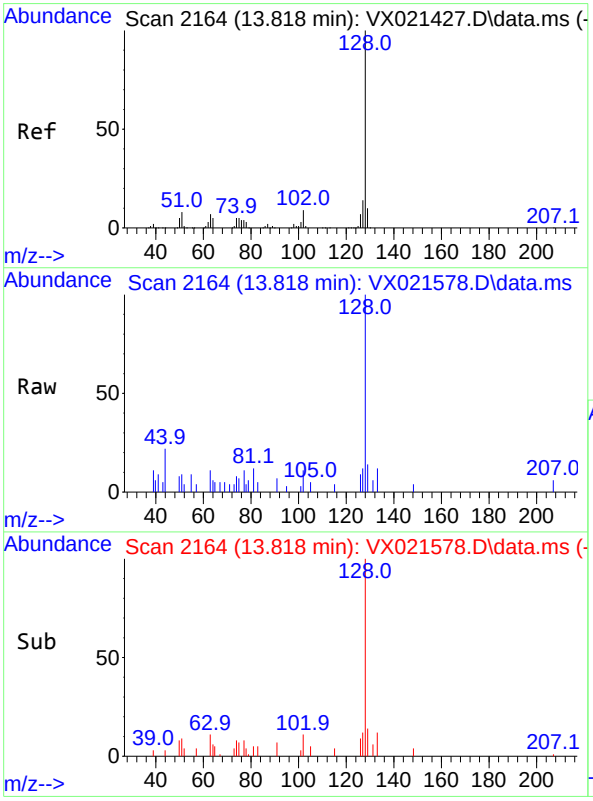


#89
n-Butylbenzene
Concen: 13.94 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion: 91 Resp: 39762

Ion	Ratio	Lower	Upper
91	100		
92	41.4	27.4	82.0
134	54.4	13.2	39.5#

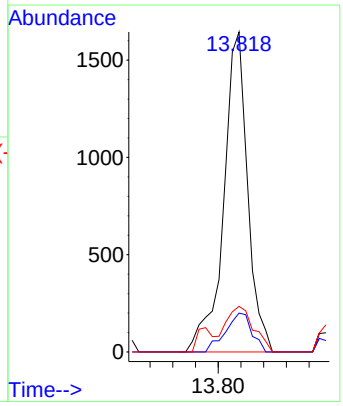




#95
Naphthalene
Concen: 0.73 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021578.D
Acq: 29 Mar 2021 15:39

Tgt Ion:128 Resp: 2414

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	17.0	8.8	13.2#



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : FD-032321

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

Signal : TIC: VX021578.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.464	733	744	756	rBV	47847	135177	10.84%	1.584%
2	5.629	759	772	785	rBV	69612	192018	15.40%	2.250%
3	6.029	830	840	851	rBV	52511	136452	10.95%	1.599%
4	6.829	965	976	990	rBV2	117142	276502	22.18%	3.240%
5	8.694	1286	1293	1308	rVB	239818	380763	30.54%	4.461%
6	10.094	1525	1531	1539	rBV	262390	350932	28.15%	4.112%
7	10.235	1548	1555	1560	rBV	16025	24129	1.94%	0.283%
8	10.336	1560	1572	1579	rBV	88349	141616	11.36%	1.659%
9	10.624	1613	1621	1628	rBV3	14756	32290	2.59%	0.378%
10	10.818	1646	1654	1659	rBV2	35707	53604	4.30%	0.628%
11	10.894	1659	1667	1671	rBV3	28538	46207	3.71%	0.541%
12	10.930	1671	1673	1679	rVB2	10839	13839	1.11%	0.162%
13	11.000	1679	1685	1690	rBV	171386	217139	17.42%	2.544%
14	11.118	1700	1705	1710	rBV	216375	283920	22.78%	3.327%
15	11.165	1710	1713	1717	rVB2	11615	15408	1.24%	0.181%
16	11.259	1721	1729	1737	rVB3	25918	39762	3.19%	0.466%
17	11.342	1738	1743	1751	rBV	320963	400673	32.14%	4.694%
18	11.418	1751	1756	1761	rVV	151255	196887	15.79%	2.307%
19	11.489	1761	1768	1777	rVB	245936	327397	26.26%	3.836%
20	11.653	1791	1796	1803	rVB4	23823	44286	3.55%	0.519%
21	11.753	1809	1813	1815	rVV	60638	74026	5.94%	0.867%
22	11.789	1815	1819	1829	rVB	1014841	1246629	100.00%	14.606%
23	11.900	1829	1838	1840	rBV	52011	80481	6.46%	0.943%
24	11.930	1840	1843	1848	rVV	119707	146080	11.72%	1.712%
25	11.983	1848	1852	1853	rVV	20118	23303	1.87%	0.273%
26	12.006	1853	1856	1860	rVV	47937	62022	4.98%	0.727%
27	12.059	1860	1865	1871	rVV	261605	333503	26.75%	3.907%
28	12.124	1871	1876	1883	rVV	394309	479419	38.46%	5.617%
29	12.218	1887	1892	1898	rVB	47122	66872	5.36%	0.783%
30	12.283	1898	1903	1911	rBV	376401	527221	42.29%	6.177%
31	12.353	1911	1915	1923	rVB3	137887	254364	20.40%	2.980%
32	12.442	1925	1930	1937	rBV	72947	96733	7.76%	1.133%
33	12.506	1937	1941	1947	rVB6	8443	17119	1.37%	0.201%
34	12.571	1947	1952	1954	rBV	57327	80746	6.48%	0.946%
35	12.595	1954	1956	1959	rVV	56524	58124	4.66%	0.681%
36	12.653	1961	1966	1969	rVV	264024	324473	26.03%	3.802%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FD-032321

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

37	12.683	1969	1971	1976	rVV	88621	96665	7.75%	1.133%
38	12.742	1976	1981	1989	rVB3	189526	335255	26.89%	3.928%
39	12.883	1998	2005	2009	rVB2	46568	79111	6.35%	0.927%
40	12.959	2009	2018	2022	rBV	142939	195637	15.69%	2.292%
41	13.001	2022	2025	2032	rVB2	63484	78762	6.32%	0.923%
42	13.065	2032	2036	2041	rVB3	18837	28573	2.29%	0.335%
43	13.136	2041	2048	2051	rBV	15899	22499	1.80%	0.264%
44	13.177	2051	2055	2057	rBV2	21184	23464	1.88%	0.275%
45	13.206	2057	2060	2064	rVB	26319	27369	2.20%	0.321%
46	13.295	2070	2075	2076	rBV2	11582	13993	1.12%	0.164%
47	13.324	2076	2080	2087	rVB2	255547	361843	29.03%	4.239%
48	13.459	2099	2103	2109	rVB	16459	22682	1.82%	0.266%
49	13.624	2127	2131	2135	rVV2	18909	27179	2.18%	0.318%
50	13.677	2135	2140	2142	rVV2	10618	17360	1.39%	0.203%
51	13.701	2142	2144	2152	rVB2	17670	24543	1.97%	0.288%

Sum of corrected areas: 8535051

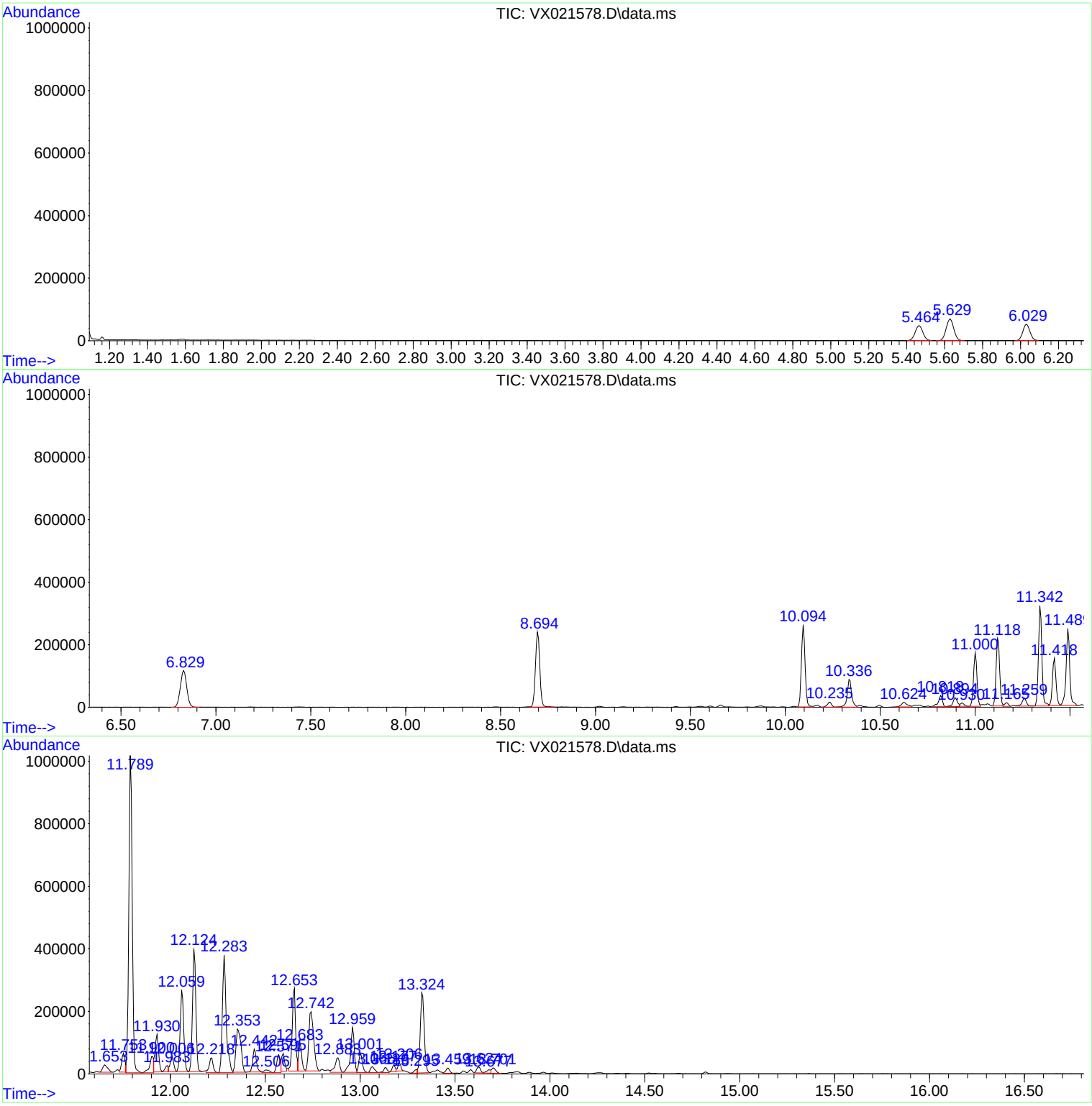
Sample Results: **VX021578.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FD-032321

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : FD-032321

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

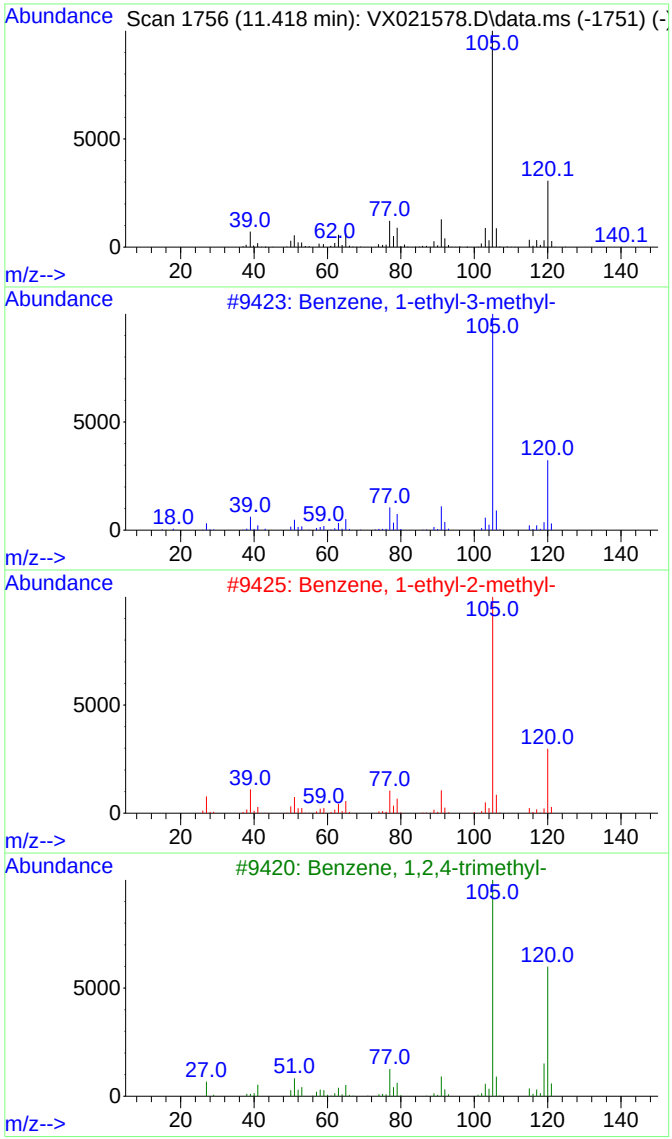
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TIC Integration Parameters: LSCINT.P

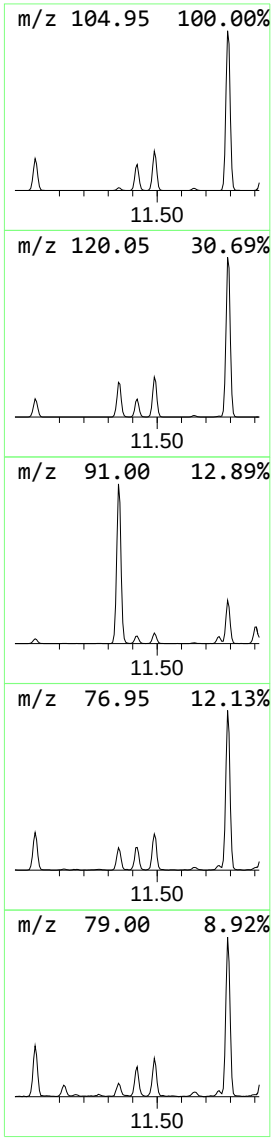
****

Peak Number 1 Benzene, 1-ethyl-3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.418	29.52 ug/l	196887	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	97
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	90
5	Mesitylene	120	C9H12	000108-67-8	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : FD-032321

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

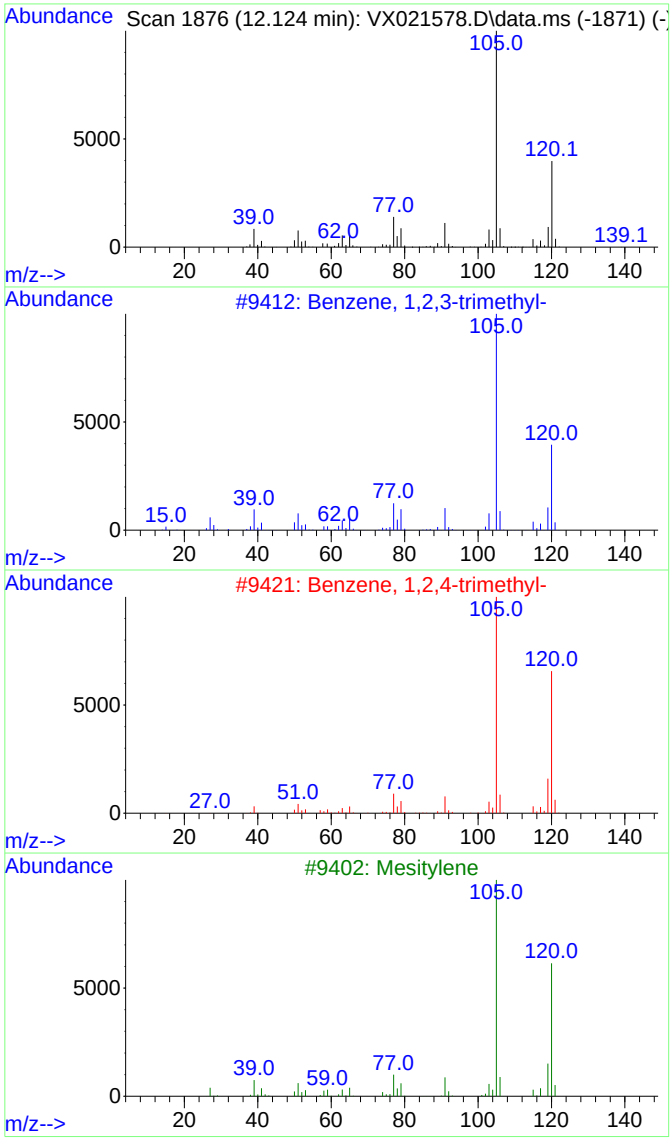
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TIC Integration Parameters: LSCINT.P

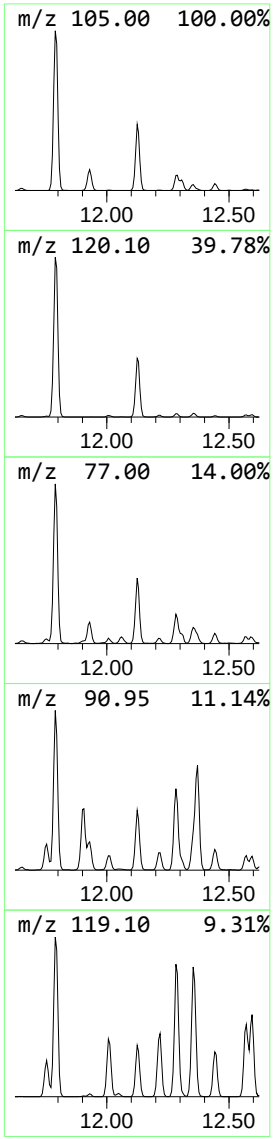
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Peak Number 2 Benzene, 1,2,3-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.124	71.88 ug/l	479419	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	97
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
3	Mesitylene	120	C9H12	000108-67-8	91
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	90
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : FD-032321

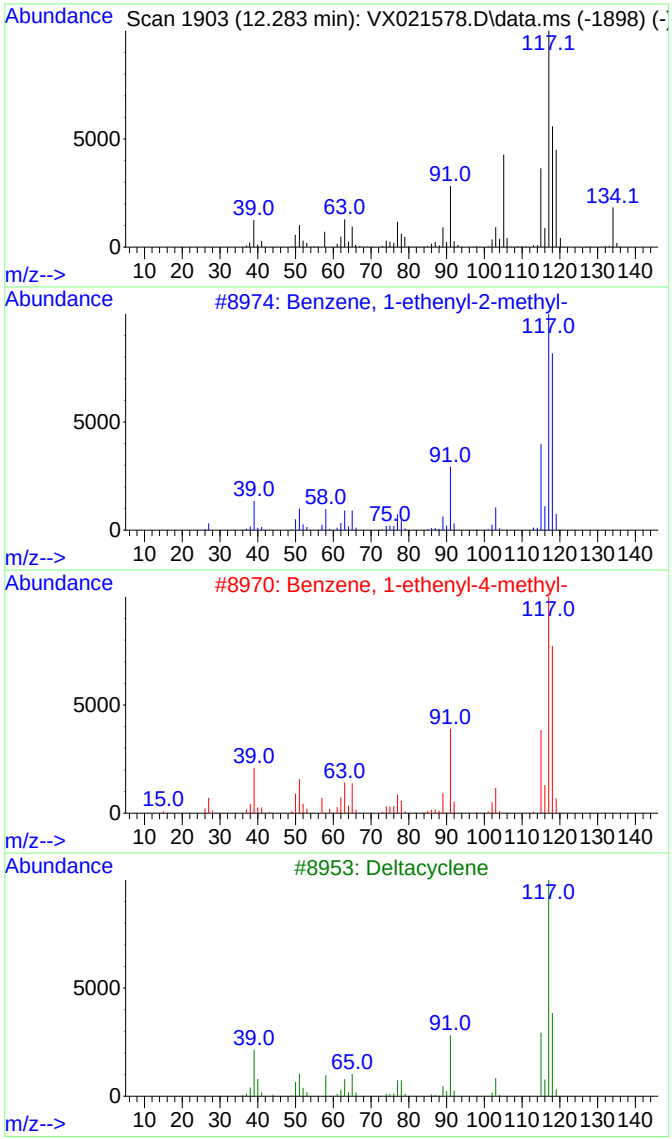
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Quant Title : SW846 8260

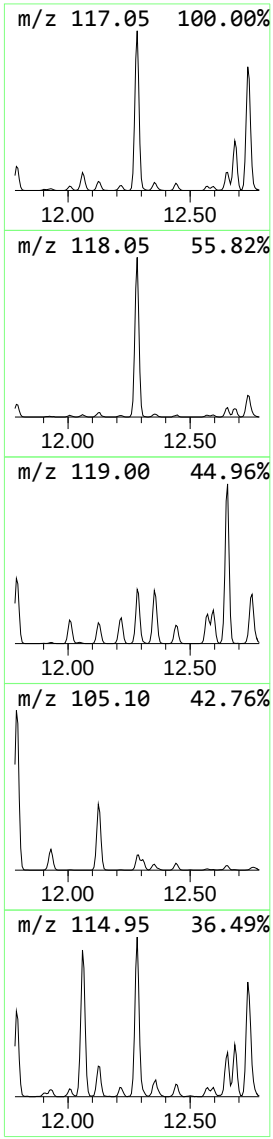
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 1-ethenyl-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.283	79.04 ug/l	527221	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	92
2	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	86
3	Deltacyclene	118	C9H10	007785-10-6	64
4	Benzene, 1-propenyl-	118	C9H10	000637-50-3	64
5	Benzene, cyclopropyl-	118	C9H10	000873-49-4	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : FD-032321

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

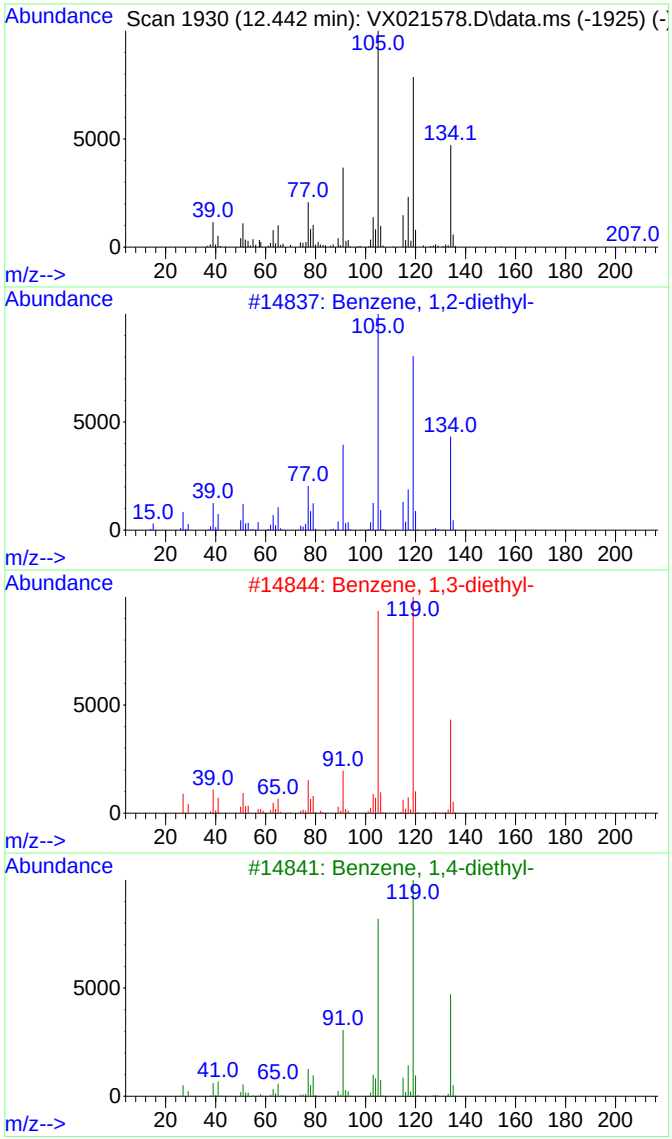
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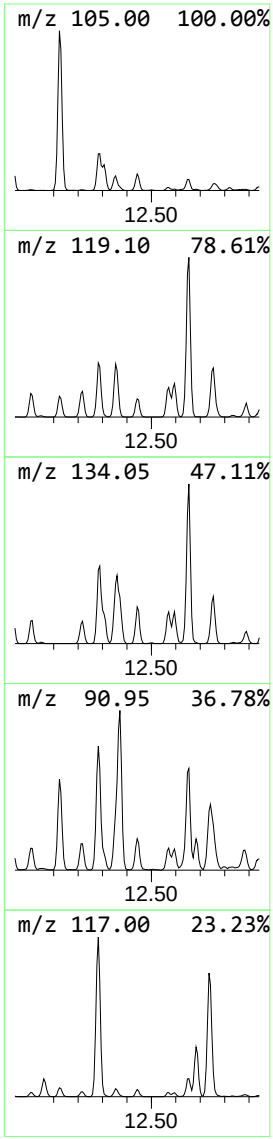
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Peak Number 4 Benzene, 1,2-diethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.442	14.50 ug/l	96733	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	98
2	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	87
3	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	81
4	o-Cymene	134	C10H14	000527-84-4	68
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	62





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : FD-032321

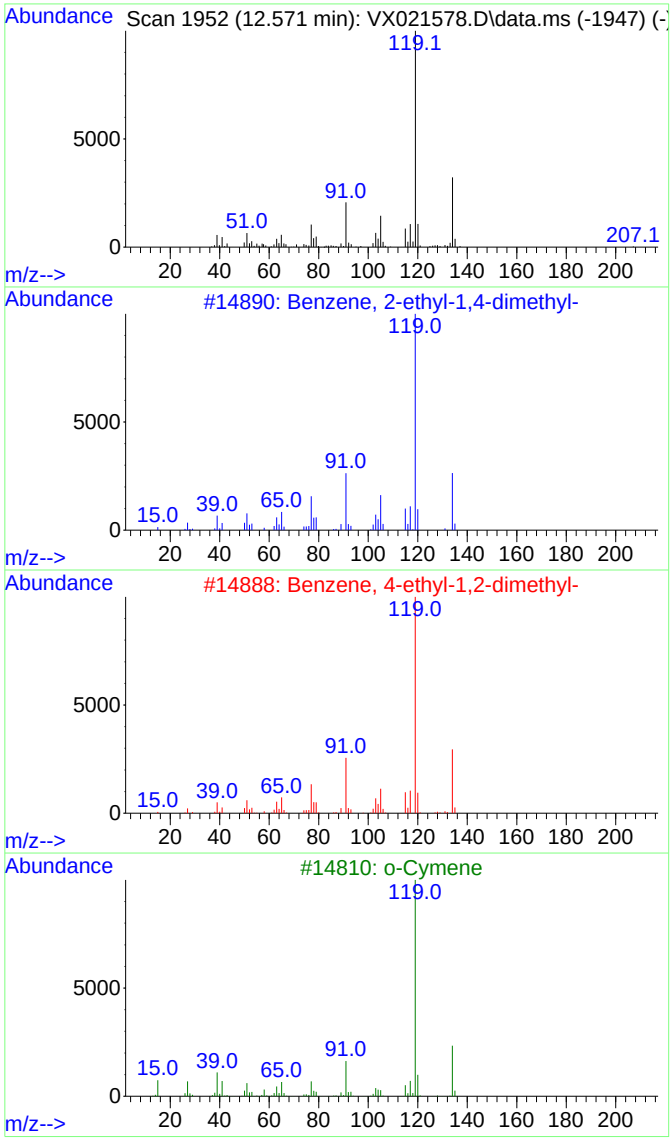
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

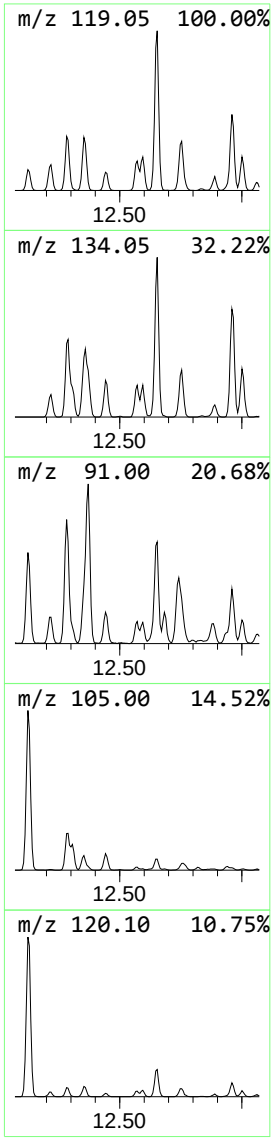
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.571	12.11 ug/l	80746	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
3	o-Cymene	134	C10H14	000527-84-4	95
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
5	p-Cymene	134	C10H14	000099-87-6	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : FD-032321

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

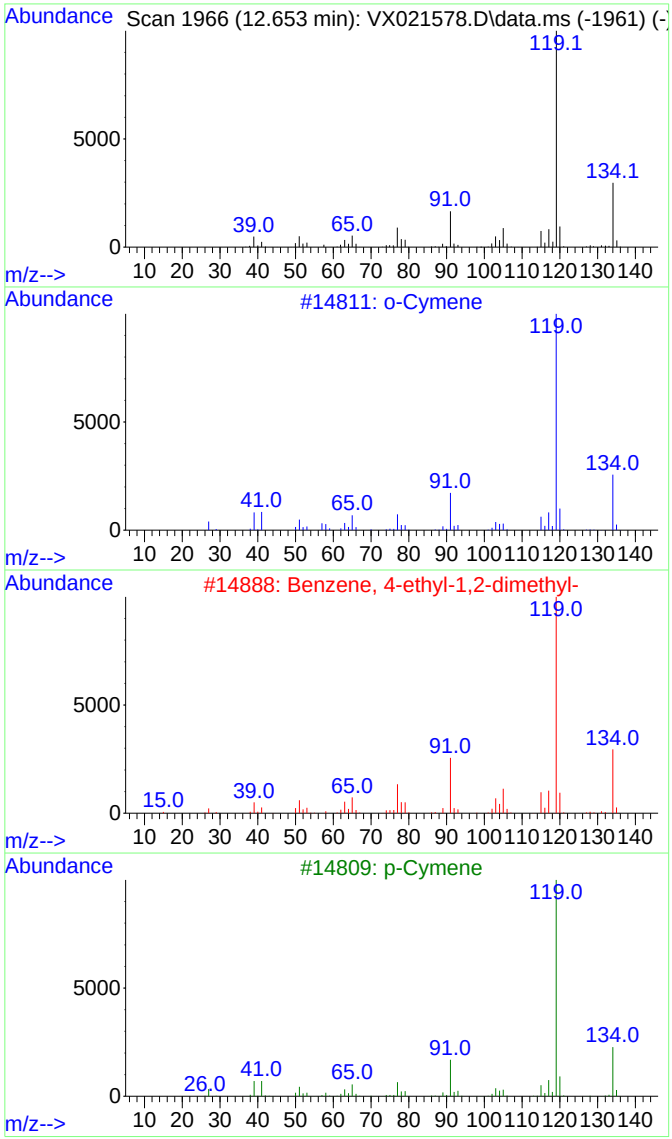
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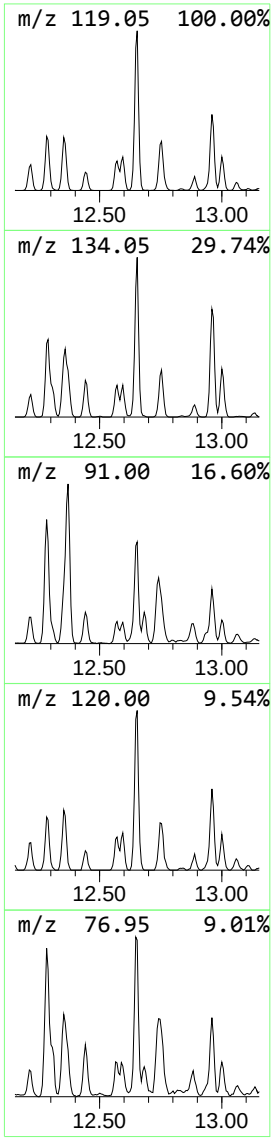
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Peak Number 6 o-Cymene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.653	48.65 ug/l	324473	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	97
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
3	p-Cymene	134	C10H14	000099-87-6	95
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : FD-032321

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

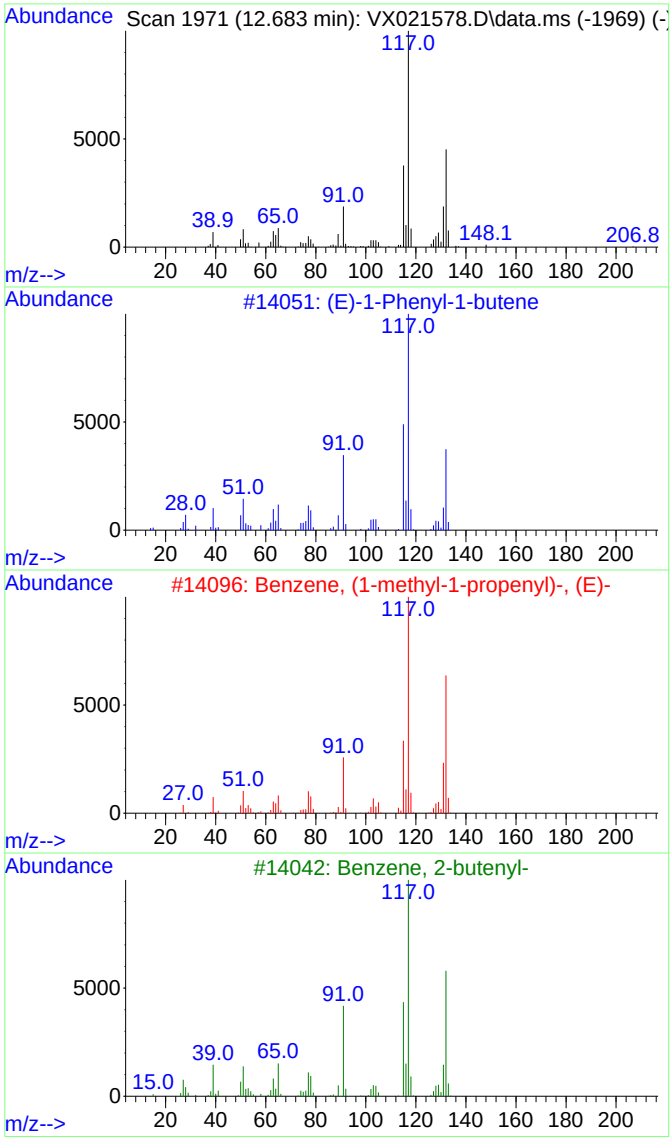
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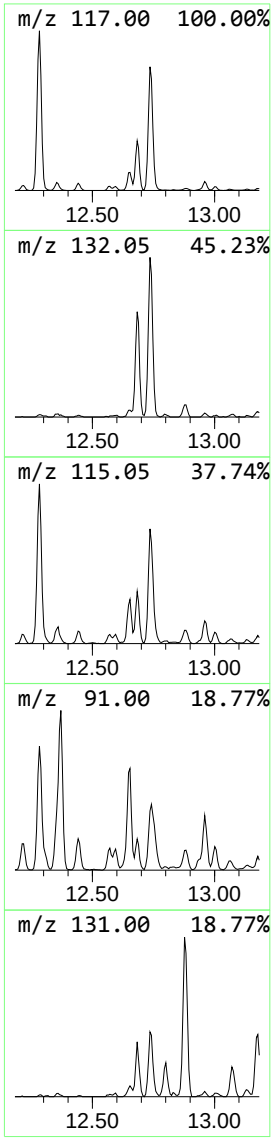
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Peak Number 7 (E)-1-Phenyl-1-butene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.683	14.49 ug/l	96665	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	95
2	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	94
3	Benzene, 2-butenyl-	132	C10H12	001560-06-1	91
4	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	91
5	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FD-032321

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

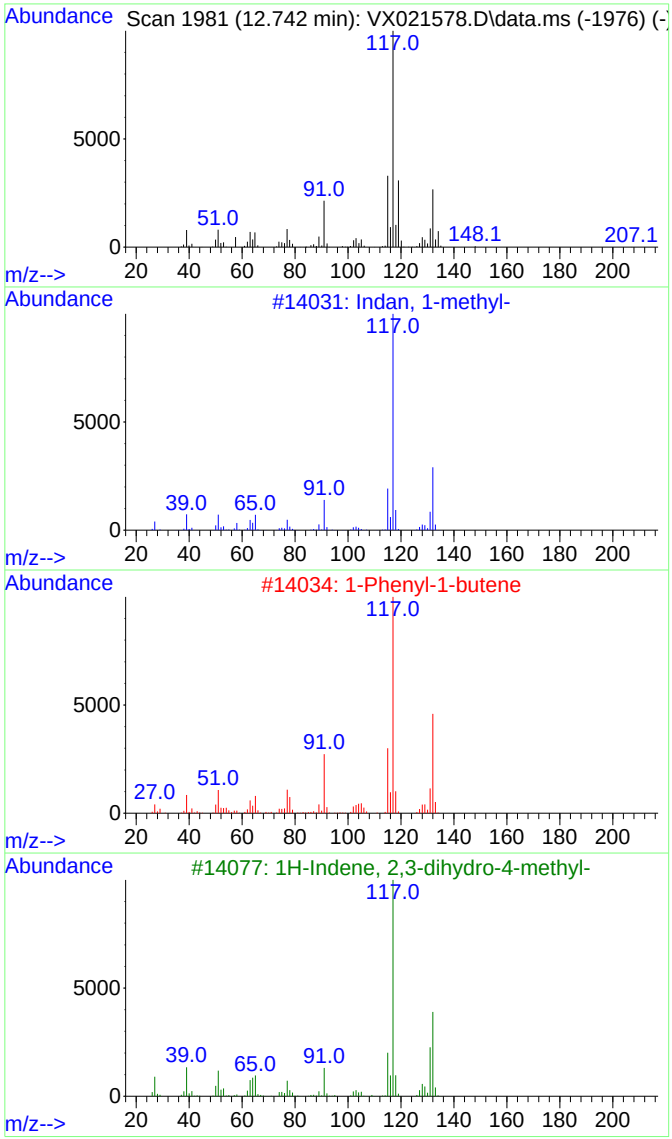
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TIC Integration Parameters: LSCINT.P

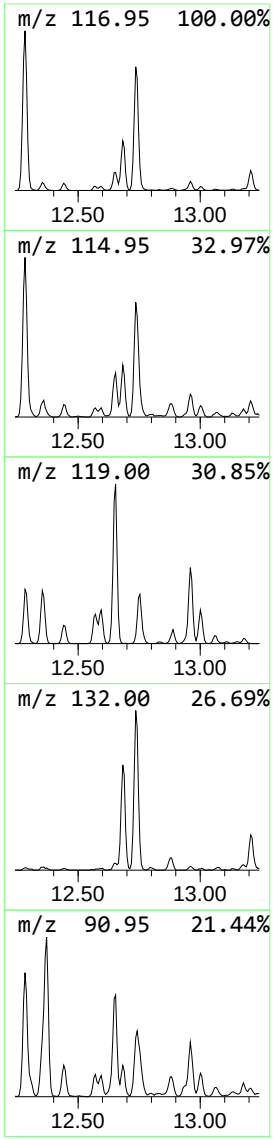
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Peak Number 8 Indan, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.742	50.26 ug/l	335255	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	87
2	1-Phenyl-1-butene	132	C10H12	000824-90-8	87
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	83
4	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	83
5	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	83





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FD-032321

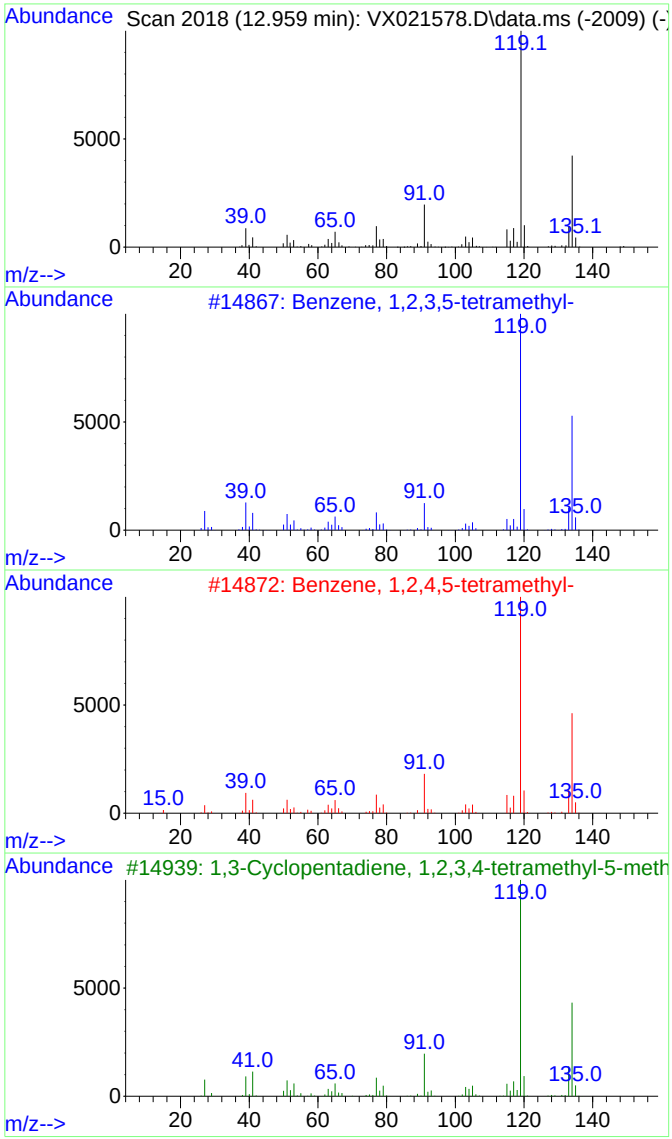
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

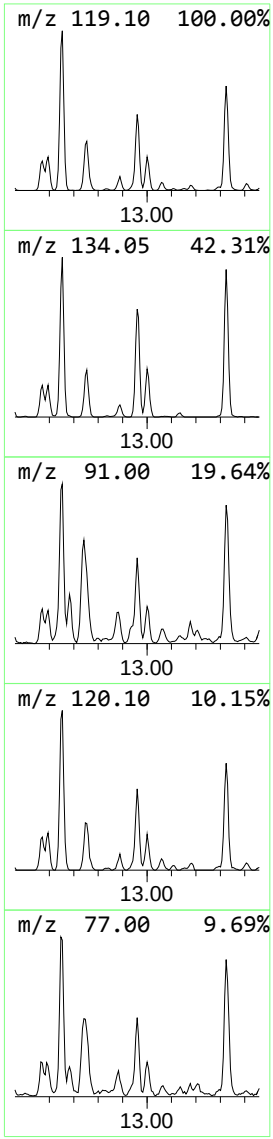
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.959	29.33 ug/l	195637	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	96
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
3	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	95
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
5	o-Cymene	134	C10H14	000527-84-4	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FD-032321

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

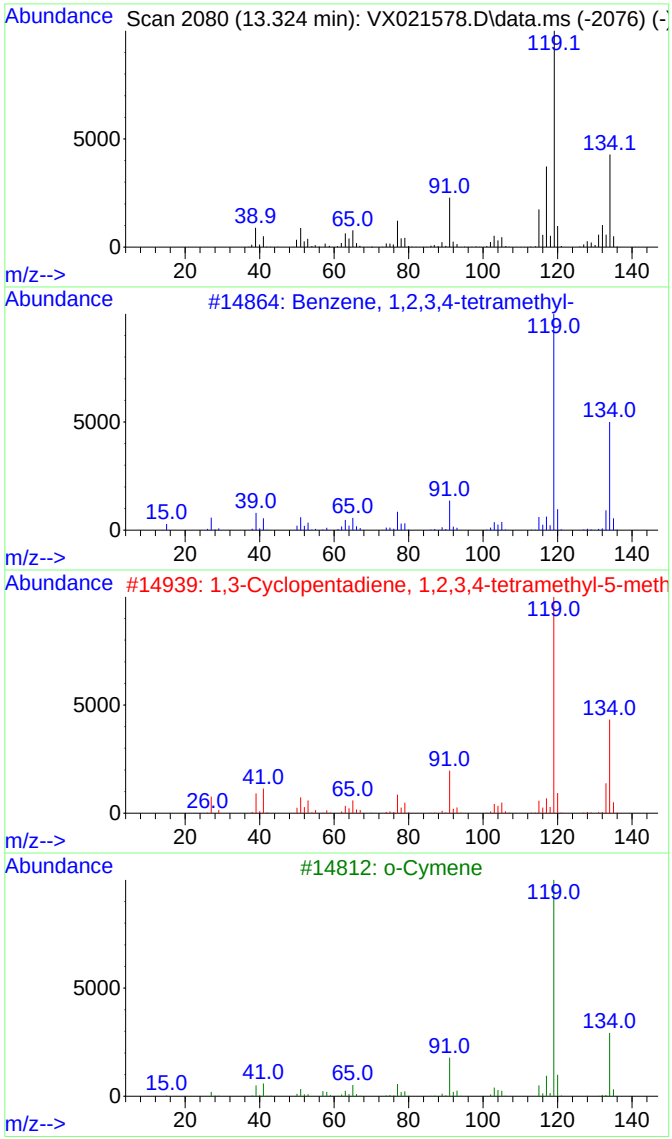
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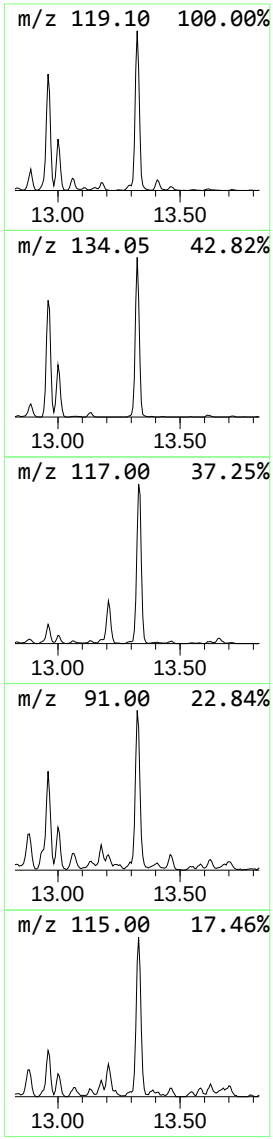
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Peak Number 10 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.324	54.25 ug/l	361843	1,4-Dichlorobenzene-d4	12.065

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	81
2	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	81
3	o-Cymene	134	C10H14	000527-84-4	81
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	81
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	81





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021578.D
Acq On : 29 Mar 2021 15:39
Operator : JC/MD
Sample : M1785-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : FD-032321

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzene, 1-ethy...	11.418	29.5	ug/l	196887	4	12.065	333503	50.0
Benzene, 1,2,3-...	12.124	71.9	ug/l	479419	4	12.065	333503	50.0
Benzene, 1-ethe...	12.283	79.0	ug/l	527221	4	12.065	333503	50.0
Benzene, 1,2-di...	12.442	14.5	ug/l	96733	4	12.065	333503	50.0
Benzene, 2-ethy...	12.571	12.1	ug/l	80746	4	12.065	333503	50.0
o-Cymene	12.653	48.6	ug/l	324473	4	12.065	333503	50.0
(E)-1-Phenyl-1-...	12.683	14.5	ug/l	96665	4	12.065	333503	50.0
Indan, 1-methyl-	12.742	50.3	ug/l	335255	4	12.065	333503	50.0
Benzene, 1,2,3,...	12.959	29.3	ug/l	195637	4	12.065	333503	50.0
Benzene, 1,2,3,...	13.324	54.3	ug/l	361843	4	12.065	333503	50.0

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	TRIP-BLANK	SDG No.:	M1785
Lab Sample ID:	M1785-18	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021576.D	1		03/29/21 14:52	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	4.50	J	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	TRIP-BLANK	SDG No.:	M1785
Lab Sample ID:	M1785-18	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021576.D	1		03/29/21 14:52	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
1330-20-7	Total Xylenes	3.00	U	0.51	3.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
123-91-1	1,4-Dioxane	100	U	7.00	100	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	50.4		92 - 112	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		83 - 123	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	59000	5.629			
540-36-3	1,4-Difluorobenzene	108000	6.829			

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	TRIP-BLANK	SDG No.:	M1785
Lab Sample ID:	M1785-18	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021576.D	1		03/29/21 14:52	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
3114-55-4	Chlorobenzene-d5	114000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	47900	12.059			

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_X\Data\VX032921\
Data File : VX021576.D
Acq On : 29 Mar 2021 14:52
Operator : JC/MD
Sample : M1785-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : TRIP-BLANK

Quant Time: Mar 30 03:28:09 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

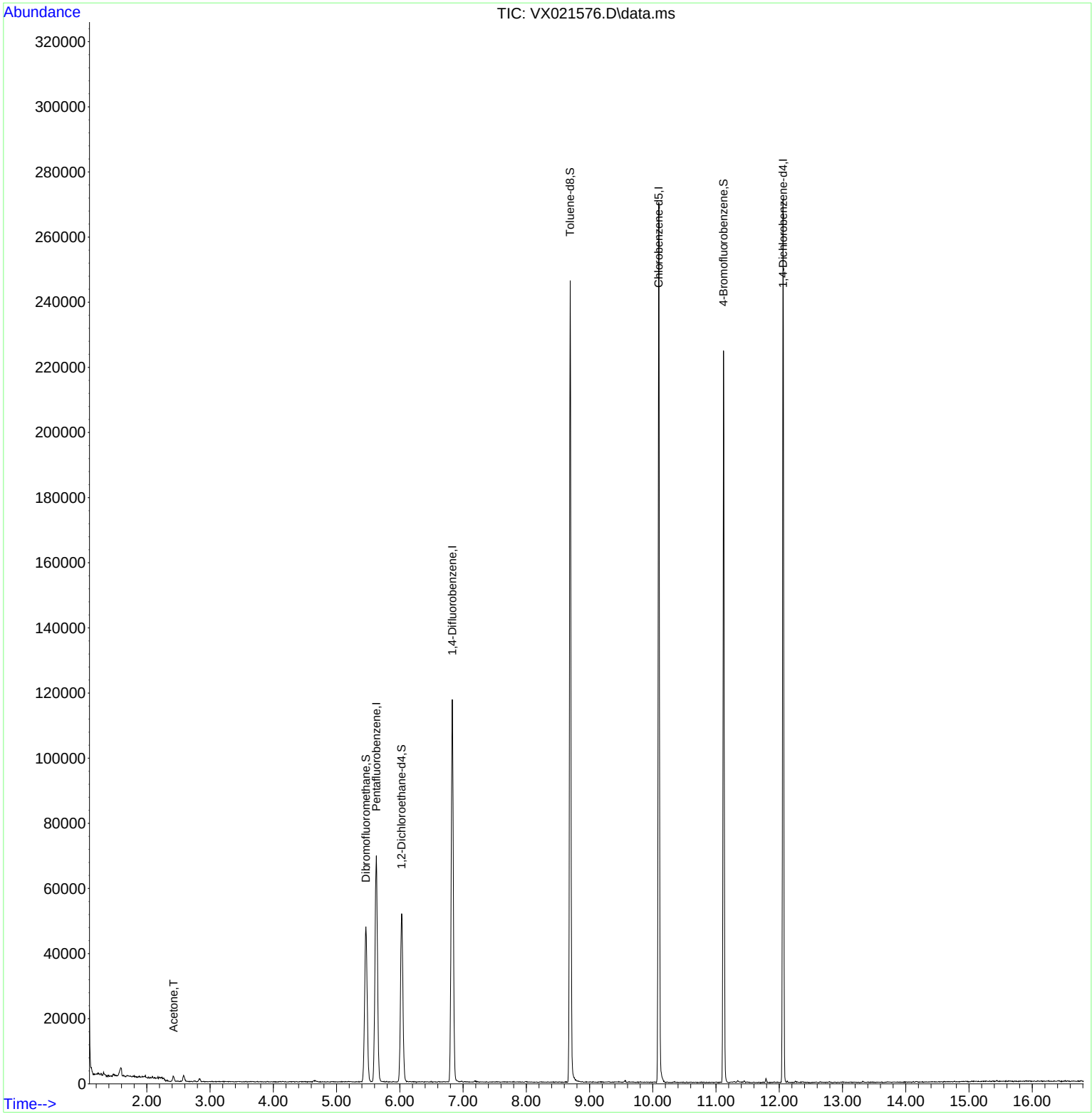
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	59024	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.829	114	107931	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.094	117	113630	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	47890	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.029	65	50784	51.71	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.42%			
35) Dibromofluoromethane	5.464	113	39159	51.08	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.16%			
50) Toluene-d8	8.694	98	137630	50.38	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.76%			
62) 4-Bromofluorobenzene	11.118	95	56413	53.11	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.22%			
Target Compounds						Qvalue
16) Acetone	2.423	43	1680	4.52	ug/l #	77

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

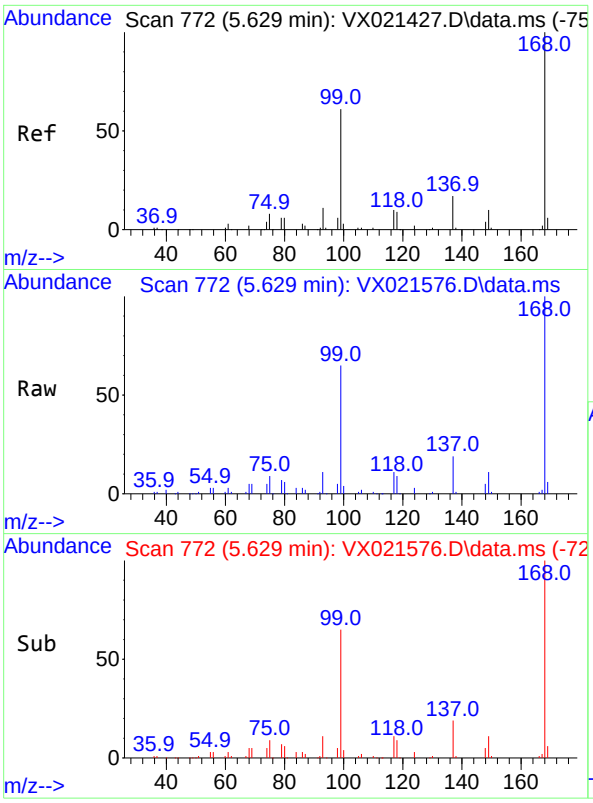
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021576.D
Acq On : 29 Mar 2021 14:52
Operator : JC/MD
Sample : M1785-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

Quant Time: Mar 30 03:28:09 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration



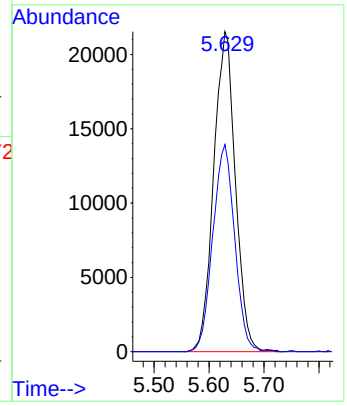
Instrument :
MSVOA_X
ClientSampleId :
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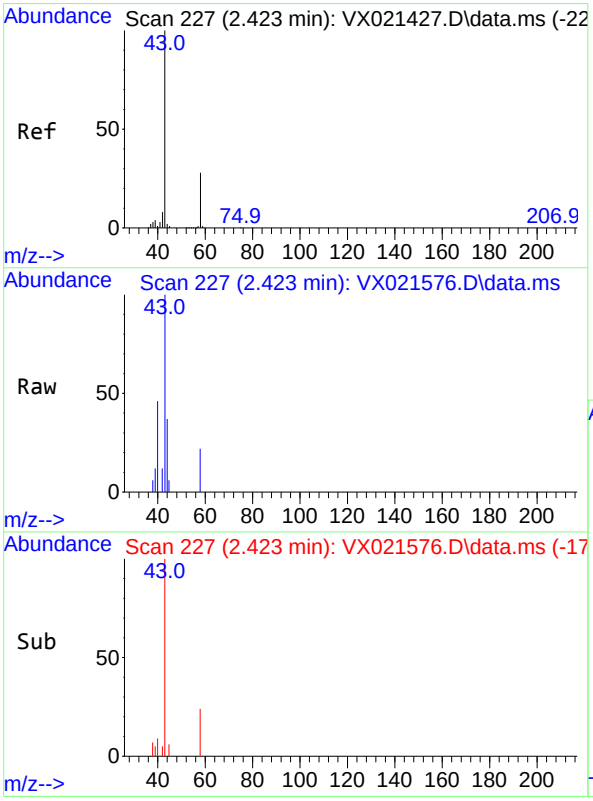


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 772
Delta R.T. -0.000 min
Lab File: VX021576.D
Acq: 29 Mar 2021 14:52

Tgt Ion:168 Resp: 59024

Ion	Ratio	Lower	Upper
168	100		
99	64.7	45.8	68.6

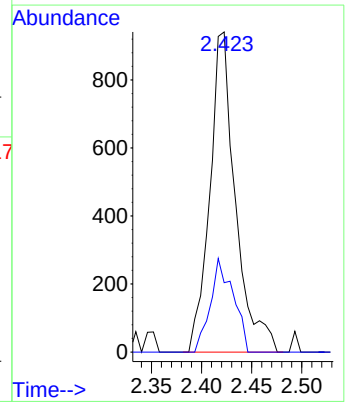




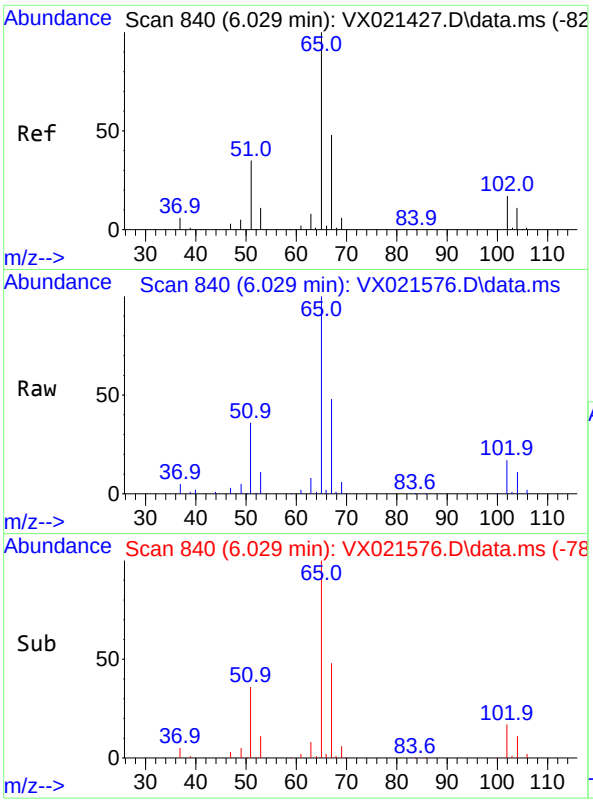
#16
Acetone
Concen: 4.52 ug/l
RT: 2.423 min Scan# 227
Delta R.T. -0.000 min
Lab File: VX021576.D
Acq: 29 Mar 2021 14:52

Tgt Ion: 43 Resp: 1680

Ion	Ratio	Lower	Upper
43	100		
58	21.7	27.8	41.8#



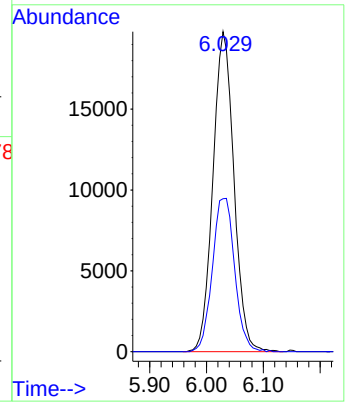
Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

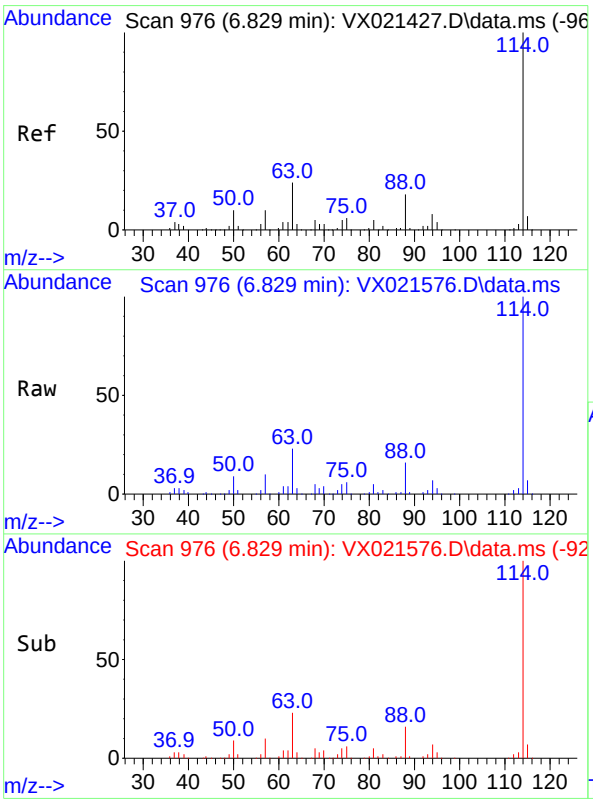


#33
1,2-Dichloroethane-d4
Concen: 51.71 ug/l
RT: 6.029 min Scan# 840
Delta R.T. -0.000 min
Lab File: VX021576.D
Acq: 29 Mar 2021 14:52

Tgt Ion: 65 Resp: 50784

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	105.4

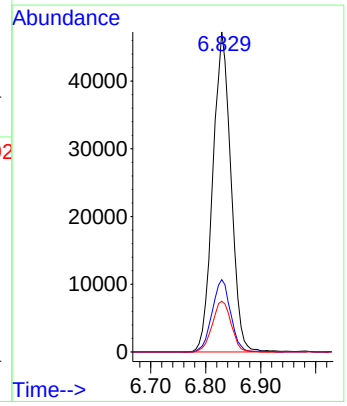




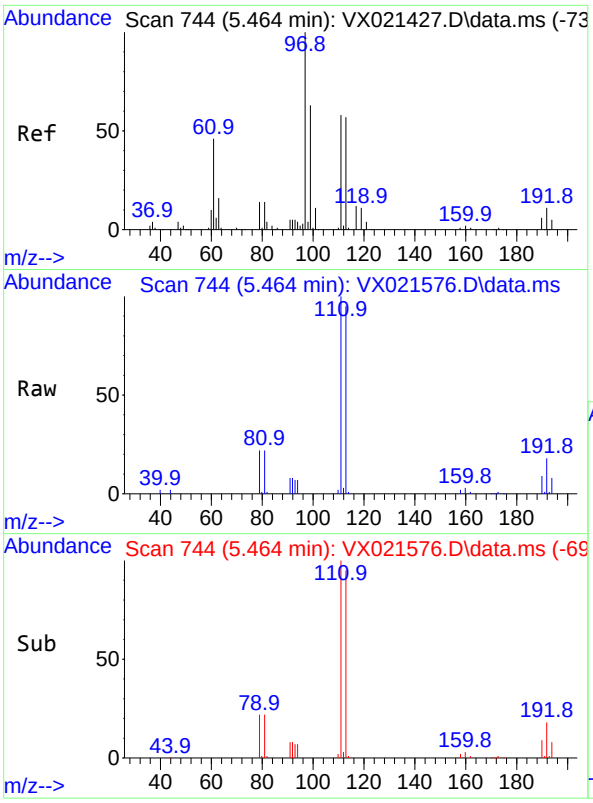
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021576.D
Acq: 29 Mar 2021 14:52

Tgt Ion:114 Resp: 107931

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	40.8
88	15.9	0.0	32.8



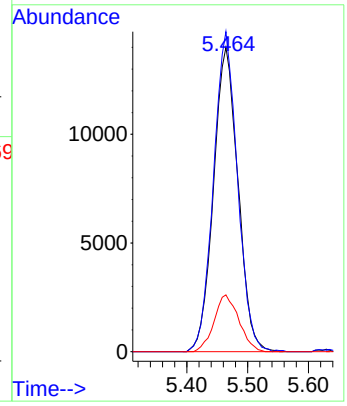
Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

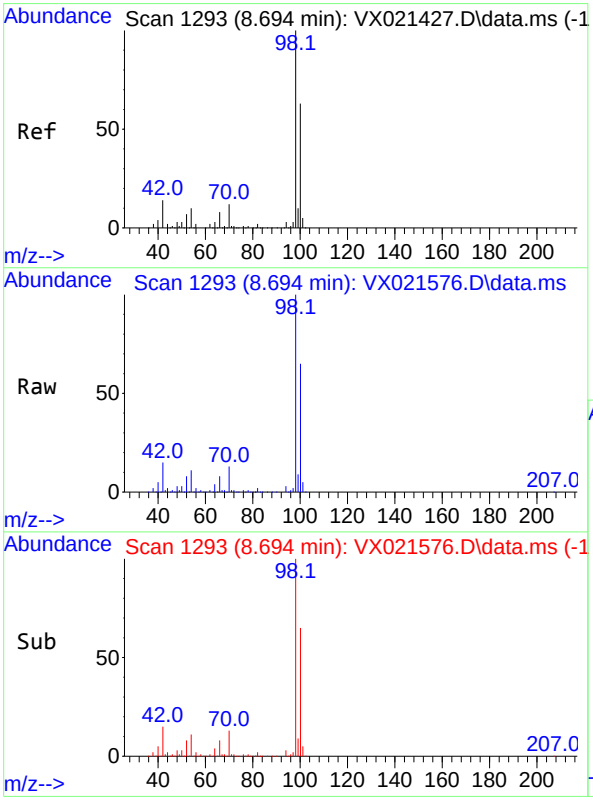


#35
Dibromofluoromethane
Concen: 51.08 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021576.D
Acq: 29 Mar 2021 14:52

Tgt Ion:113 Resp: 39159

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.9	122.9
192	18.9	16.7	25.1

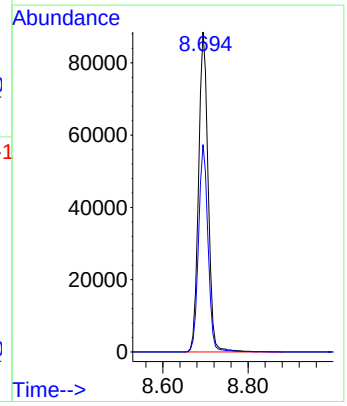




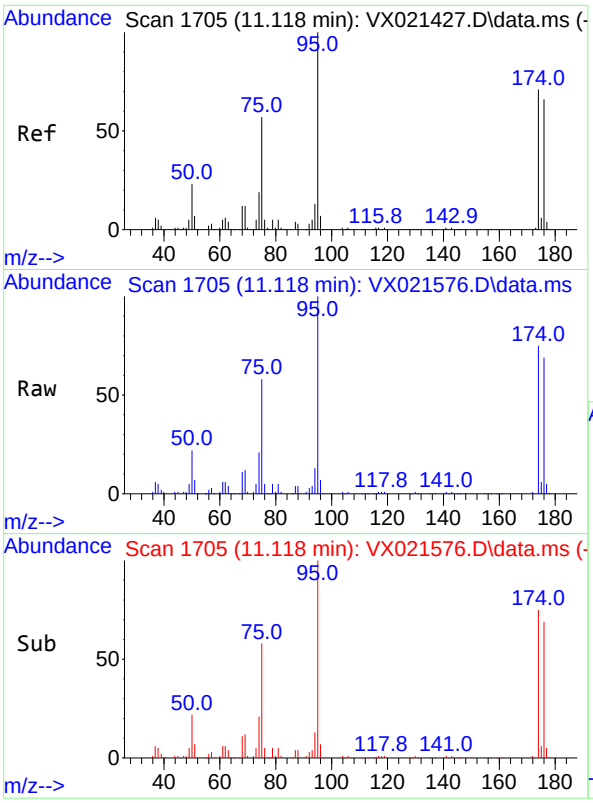
#50
Toluene-d8
Concen: 50.38 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021576.D
Acq: 29 Mar 2021 14:52

Tgt Ion: 98 Resp: 137630

Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.9	77.9



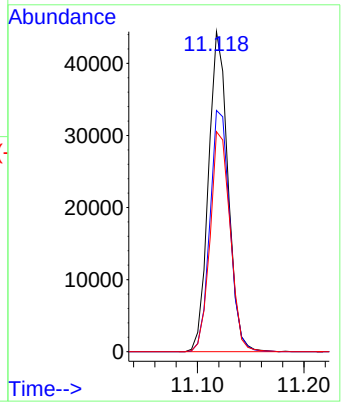
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MSVOA_X
ClientSampleId :
TRIP-BLANK

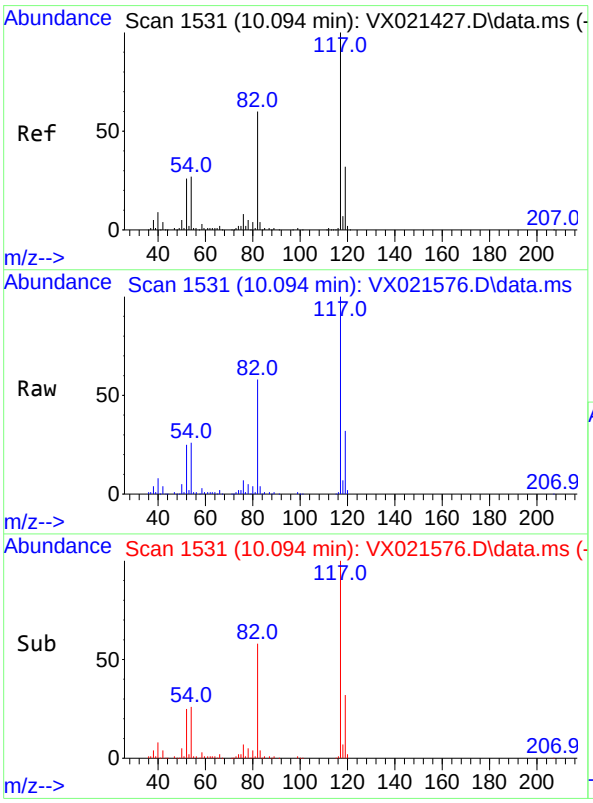


#62
4-Bromofluorobenzene
Concen: 53.11 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021576.D
Acq: 29 Mar 2021 14:52

Tgt Ion: 95 Resp: 56413

Ion	Ratio	Lower	Upper
95	100		
174	76.7	0.0	154.6
176	70.7	0.0	155.8

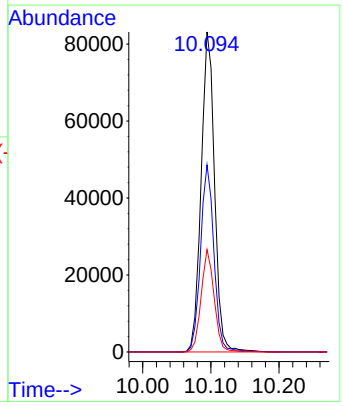




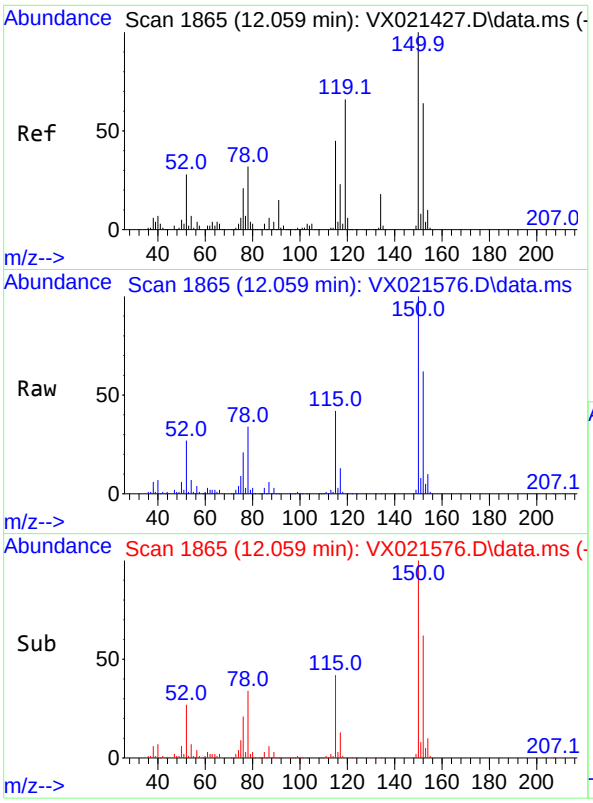
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021576.D
Acq: 29 Mar 2021 14:52

Tgt Ion:117 Resp: 113630

Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.4	71.2
119	32.0	26.6	39.8



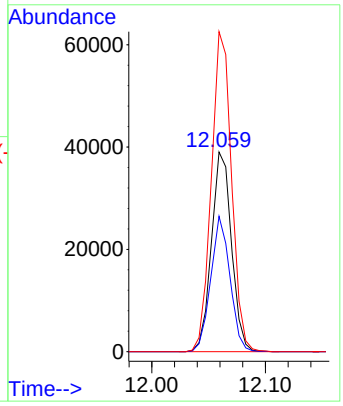
Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021576.D
Acq: 29 Mar 2021 14:52

Tgt Ion:152 Resp: 47890

Ion	Ratio	Lower	Upper
152	100		
115	65.0	41.1	123.3
150	161.2	0.0	349.0



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021576.D
Acq On : 29 Mar 2021 14:52
Operator : JC/MD
Sample : M1785-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : TRIP-BLANK

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

Signal : TIC: VX021576.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.587	78	85	90	rVB5	2534	5506	1.43%	0.261%
2	5.464	733	744	757	rBV	47723	134412	35.00%	6.378%
3	5.629	760	772	789	rVB2	69411	190682	49.65%	9.048%
4	6.029	828	840	853	rBV	51709	136011	35.41%	6.454%
5	6.829	966	976	994	rBB	117417	272839	71.04%	12.946%
6	8.694	1286	1293	1311	rBV	246216	384068	100.00%	18.224%
7	10.094	1525	1531	1548	rBV	270247	368978	96.07%	17.508%
8	11.118	1699	1705	1718	rVB	224675	285388	74.31%	13.541%
9	12.059	1860	1865	1874	rVB	271252	329630	85.83%	15.641%

Sum of corrected areas: 2107514

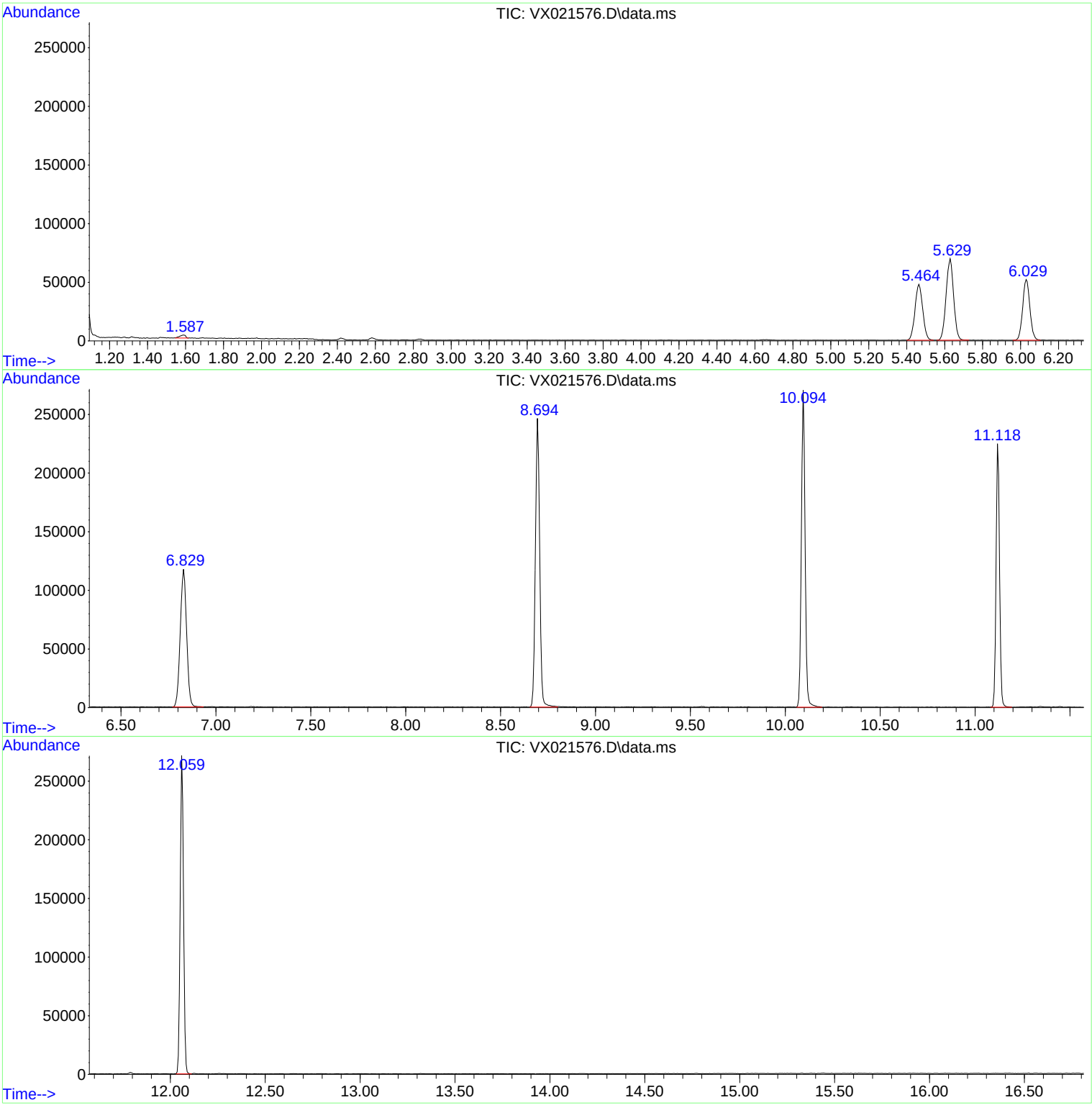
Sample Results: **VX021576.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021576.D
Acq On : 29 Mar 2021 14:52
Operator : JC/MD
Sample : M1785-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021576.D
Acq On : 29 Mar 2021 14:52
Operator : JC/MD
Sample : M1785-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021576.D
Acq On : 29 Mar 2021 14:52
Operator : JC/MD
Sample : M1785-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHAZ02

Lab Code: CHEM Case No.: M1785 SAS No.: M1785 SDG No.: M1785

Instrument ID: MSVOA_X Calibration Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Calibration Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX021424.D RRF005 = VX021425.D RRF020 = VX021426.D
RRF050 = VX021427.D RRF100 = VX021428.D RRF150 = VX021429.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.557	0.560	0.518	0.554	0.574	0.534	0.550	3.7
Chloromethane	0.967	0.763	0.596	0.611	0.640	0.631	0.702	20.4
Vinyl Chloride	0.515	0.581	0.532	0.572	0.599	0.574	0.562	5.7
Bromomethane		0.249	0.229	0.220	0.220	0.213	0.226	6.1
Chloroethane	0.359	0.388	0.335	0.358	0.369	0.330	0.357	6.1
Trichlorofluoromethane	0.840	1.007	0.872	0.940	0.941	0.886	0.914	6.6
1,1,2-Trichlorotrifluoroethane	0.509	0.542	0.492	0.511	0.529	0.505	0.515	3.5
1,1-Dichloroethene	0.544	0.528	0.465	0.483	0.511	0.494	0.504	5.8
Acetone	0.337	0.319	0.281	0.307	0.319	0.325	0.315	6
Carbon Disulfide	1.764	1.372	1.249	1.353	1.392	1.359	1.415	12.6
Methyl tert-butyl Ether	1.705	1.924	1.752	1.905	1.993	2.010	1.882	6.7
Methyl Acetate	0.781	0.868	0.860	0.943	0.989	1.012	0.909	9.7
Methylene Chloride	0.662	0.641	0.551	0.596	0.612	0.620	0.614	6.2
trans-1,2-Dichloroethene	0.548	0.580	0.508	0.551	0.573	0.560	0.553	4.6
1,1-Dichloroethane	0.984	1.146	0.999	1.079	1.117	1.102	1.071	6.1
Cyclohexane		0.911	0.850	0.938	0.959	0.916	0.915	4.5
2-Butanone	0.435	0.501	0.437	0.479	0.501	0.509	0.477	7
Carbon Tetrachloride	0.477	0.560	0.486	0.546	0.555	0.534	0.526	6.8
cis-1,2-Dichloroethene	0.612	0.660	0.590	0.644	0.675	0.675	0.643	5.5
Bromochloromethane	0.564	0.611	0.494	0.505	0.521	0.522	0.536	8.1
Chloroform	1.004	1.192	1.065	1.149	1.182	1.192	1.131	6.9
1,1,1-Trichloroethane	0.909	1.051	0.942	1.023	1.054	1.031	1.002	6.1
Methylcyclohexane	0.519	0.545	0.493	0.571	0.576	0.555	0.543	5.9
Benzene	1.276	1.456	1.268	1.437	1.458	1.451	1.391	6.7
1,2-Dichloroethane	0.540	0.646	0.557	0.619	0.625	0.632	0.603	7.2
Trichloroethene	0.366	0.374	0.335	0.371	0.379	0.378	0.367	4.5
1,2-Dichloropropane	0.341	0.392	0.345	0.392	0.394	0.397	0.377	7
Bromodichloromethane	0.494	0.570	0.514	0.581	0.594	0.600	0.559	7.9
4-Methyl-2-Pentanone	0.461	0.568	0.534	0.597	0.618	0.617	0.566	10.7
Toluene	0.732	0.847	0.810	0.906	0.925	0.935	0.859	9.2
t-1,3-Dichloropropene	0.465	0.533	0.501	0.599	0.637	0.652	0.564	13.5
cis-1,3-Dichloropropene	0.493	0.592	0.544	0.639	0.661	0.674	0.601	11.8
1,1,2-Trichloroethane	0.304	0.366	0.347	0.379	0.391	0.390	0.363	9.1

* 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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHAZ02

Lab Code: CHEM Case No.: M1785 SAS No.: M1785 SDG No.: M1785

Instrument ID: MSVOA_X Calibration Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Calibration Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX021424.D RRF005 = VX021425.D RRF020 = VX021426.D
RRF050 = VX021427.D RRF100 = VX021428.D RRF150 = VX021429.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
2-Hexanone	0.353	0.415	0.398	0.449	0.466	0.468	0.425	10.5
Dibromochloromethane	0.339	0.390	0.378	0.433	0.453	0.444	0.406	10.9
1,2-Dibromoethane	0.341	0.380	0.357	0.413	0.424	0.422	0.390	9.1
Tetrachloroethene	0.307	0.362	0.316	0.345	0.336	0.342	0.335	6
Chlorobenzene	0.909	1.053	0.910	1.029	1.075	1.052	1.004	7.5
Ethyl Benzene	1.628	1.851	1.703	1.900	1.989	1.914	1.831	7.5
m/p-Xylenes	0.543	0.662	0.613	0.686	0.720	0.690	0.652	9.9
o-Xylene	0.532	0.634	0.596	0.660	0.691	0.679	0.632	9.4
Styrene	0.935	1.038	1.013	1.133	1.213	1.187	1.086	10
Bromoform	0.287	0.298	0.286	0.325	0.341	0.339	0.313	8.1
Isopropylbenzene	3.009	3.659	3.259	3.757	3.772	3.624	3.513	8.8
1,1,2,2-Tetrachloroethane	1.158	1.299	1.206	1.260	1.261	1.264	1.241	4.1
n-propylbenzene	3.779	4.157	3.843	4.384	4.445	4.285	4.149	6.7
1,3,5-Trimethylbenzene	2.534	3.094	2.805	3.212	3.238	3.125	3.001	9.2
tert-Butylbenzene	2.647	2.902	2.687	3.064	3.184	3.050	2.922	7.4
1,2,4-Trimethylbenzene	2.493	3.118	2.872	3.225	3.272	3.173	3.026	9.8
sec-Butylbenzene	2.843	3.402	3.141	3.632	3.681	3.525	3.371	9.6
1,3-Dichlorobenzene	1.495	1.609	1.412	1.595	1.660	1.638	1.568	6.1
1,4-Dichlorobenzene	1.740	1.648	1.463	1.606	1.616	1.660	1.622	5.6
n-Butylbenzene	2.388	2.745	2.531	3.021	3.110	3.072	2.811	10.8
1,2-Dichlorobenzene	1.414	1.587	1.427	1.537	1.591	1.592	1.525	5.5
1,2-Dibromo-3-Chloropropane	0.207	0.307	0.263	0.301	0.316	0.325	0.286	15.5
1,2,4-Trichlorobenzene	0.949	0.929	0.823	1.028	1.116	1.152	0.999	12.4
1,2,3-Trichlorobenzene	0.976	0.936	0.905	1.028	1.064	1.083	0.999	7.1
1,2-Dichloroethane-d4		0.893	0.772	0.781	0.837	0.877	0.832	6.6
Dibromofluoromethane		0.377	0.320	0.337	0.364	0.378	0.355	7.2
Toluene-d8		1.249	1.150	1.242	1.315	1.372	1.266	6.6
4-Bromofluorobenzene		0.479	0.441	0.476	0.521	0.544	0.492	8.2
1,4-Dioxane	7.461	9.583	7.975	9.059	9.261	9.367	8.784	9.8

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

Response Factor Report MSVOA_X

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X032421W.M
Title : SW846 8260
Last Update : Wed Mar 24 12:25:26 2021
Response Via : Initial Calibration

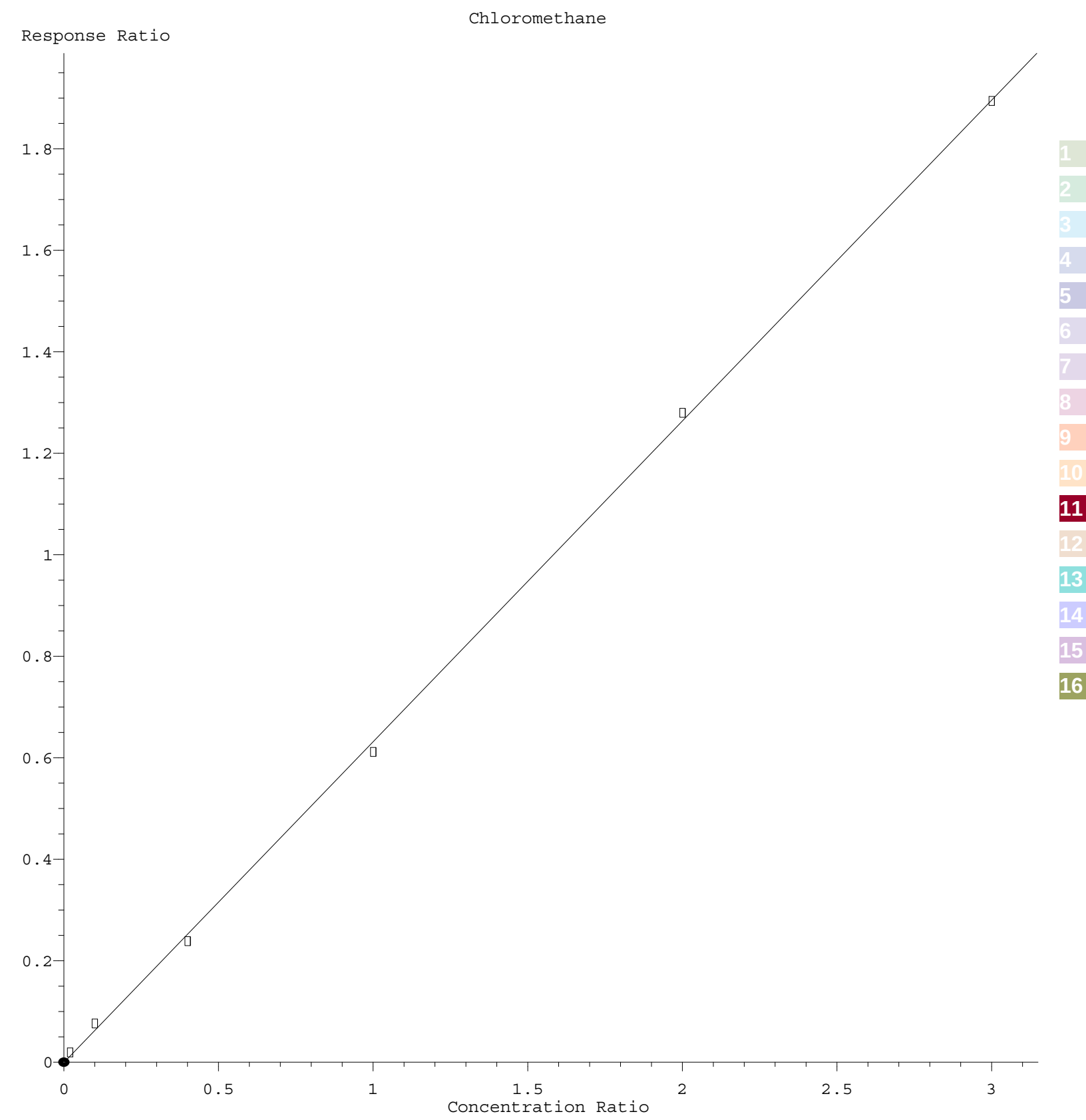
Calibration Files
1 =VX021424.D 5 =VX021425.D 20 =VX021426.D 50 =VX021427.D 100 =VX021428.D 150 =VX021429.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.557	0.560	0.518	0.554	0.574	0.534	0.550	3.66
3)	P	Chloromethane	0.967	0.763	0.596	0.611	0.640	0.631	0.702	20.40
4)	C	Vinyl Chloride	0.515	0.581	0.532	0.572	0.599	0.574	0.562	5.68#
5)	T	Bromomethane		0.249	0.229	0.220	0.220	0.213	0.226	6.11
6)	T	Chloroethane	0.359	0.388	0.335	0.358	0.369	0.330	0.357	6.13
7)	T	Trichlorofluor...	0.840	1.007	0.872	0.940	0.941	0.886	0.914	6.58
8)	T	Diethyl Ether	0.308	0.342	0.296	0.314	0.318	0.327	0.317	4.98
9)	T	1,1,2-Trichlor...	0.509	0.542	0.492	0.511	0.529	0.505	0.515	3.47
10)	T	Methyl Iodide		0.281	0.294	0.363	0.417	0.454	0.362	20.83
11)	T	Tert butyl alc...		0.142	0.123	0.133	0.143	0.147	0.138	7.09
12)	CM	1,1-Dichloroet...	0.544	0.528	0.465	0.483	0.511	0.494	0.504	5.77#
13)	T	Acrolein		0.114	0.063	0.067	0.067	0.072	0.077	28.03
14)	T	Allyl chloride	1.066	1.073	0.917	1.016	1.049	1.015	1.023	5.62
15)	T	Acrylonitrile	0.295	0.343	0.302	0.332	0.340	0.349	0.327	7.00
16)	T	Acetone	0.337	0.319	0.281	0.307	0.319	0.325	0.315	6.01
17)	T	Carbon Disulfide	1.764	1.372	1.249	1.353	1.392	1.359	1.415	12.58
18)	T	Methyl Acetate	0.781	0.868	0.860	0.943	0.989	1.012	0.909	9.69
19)	T	Methyl tert-bu...	1.705	1.924	1.752	1.905	1.993	2.010	1.882	6.69
20)	T	Methylene Chlo...	0.662	0.641	0.551	0.596	0.612	0.620	0.614	6.22
21)	T	trans-1,2-Dich...	0.548	0.580	0.508	0.551	0.573	0.560	0.553	4.59
22)	T	Diisopropyl ether	1.789	2.083	1.843	2.023	2.090	2.095	1.987	6.85
23)	T	Vinyl Acetate	1.415	1.733	1.560	1.733	1.809	1.834	1.681	9.62
24)	P	1,1-Dichloroet...	0.984	1.146	0.999	1.079	1.117	1.102	1.071	6.14
25)	T	2-Butanone	0.435	0.501	0.437	0.479	0.501	0.509	0.477	6.97
26)	T	2,2-Dichloropr...	0.902	0.962	0.848	0.944	0.963	0.949	0.928	4.88
27)	T	cis-1,2-Dichlo...	0.612	0.660	0.590	0.644	0.675	0.675	0.643	5.48
28)	T	Bromochloromet...	0.564	0.611	0.494	0.505	0.521	0.522	0.536	8.13
29)	T	Tetrahydrofuran	0.277	0.327	0.285	0.310	0.323	0.332	0.309	7.44
30)	C	Chloroform	1.004	1.192	1.065	1.149	1.182	1.192	1.131	6.94#
31)	T	Cyclohexane		0.911	0.850	0.938	0.959	0.916	0.915	4.50
32)	T	1,1,1-Trichlor...	0.909	1.051	0.942	1.023	1.054	1.031	1.002	6.09
33)	S	1,2-Dichloroet...		0.893	0.772	0.781	0.837	0.877	0.832	6.58
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.377	0.320	0.337	0.364	0.378	0.355	7.22
36)	T	1,1-Dichloropr...	0.494	0.504	0.446	0.495	0.509	0.491	0.490	4.61
37)	T	Ethyl Acetate	0.571	0.608	0.496	0.554	0.579	0.592	0.566	6.92
38)	T	Carbon Tetrach...	0.477	0.560	0.486	0.546	0.555	0.534	0.526	6.80
39)	T	Methylcyclohexane	0.519	0.545	0.493	0.571	0.576	0.555	0.543	5.90
40)	TM	Benzene	1.276	1.456	1.268	1.437	1.458	1.451	1.391	6.65
41)	T	Methacrylonitrile	0.342	0.333	0.292	0.329	0.337	0.338	0.329	5.63
42)	TM	1,2-Dichloroet...	0.540	0.646	0.557	0.619	0.625	0.632	0.603	7.21
43)	T	Isopropyl Acetate	0.824	0.934	0.825	0.948	0.983	1.006	0.920	8.50
44)	TM	Trichloroethene	0.366	0.374	0.335	0.371	0.379	0.378	0.367	4.49
45)	C	1,2-Dichloropr...	0.341	0.392	0.345	0.392	0.394	0.397	0.377	7.01#
46)	T	Dibromomethane	0.253	0.290	0.246	0.284	0.285	0.290	0.275	7.16
47)	T	Bromodichlorom...	0.494	0.570	0.514	0.581	0.594	0.600	0.559	7.89
48)	T	Methyl methacr...	0.436	0.481	0.443	0.513	0.531	0.540	0.491	9.05
49)	T	1,4-Dioxane	0.007	0.010	0.008	0.009	0.009	0.009	0.009	9.77
50)	S	Toluene-d8		1.249	1.150	1.242	1.315	1.372	1.266	6.62
51)	T	4-Methyl-2-Pen...	0.461	0.568	0.534	0.597	0.618	0.617	0.566	10.70
52)	CM	Toluene	0.732	0.847	0.810	0.906	0.925	0.935	0.859	9.17#
53)	T	t-1,3-Dichloro...	0.465	0.533	0.501	0.599	0.637	0.652	0.564	13.51
54)	T	cis-1,3-Dichlo...	0.493	0.592	0.544	0.639	0.661	0.674	0.601	11.82
55)	T	1,1,2-Trichlor...	0.304	0.366	0.347	0.379	0.391	0.390	0.363	9.08
56)	T	Ethyl methacry...	0.412	0.518	0.501	0.596	0.626	0.633	0.548	15.75

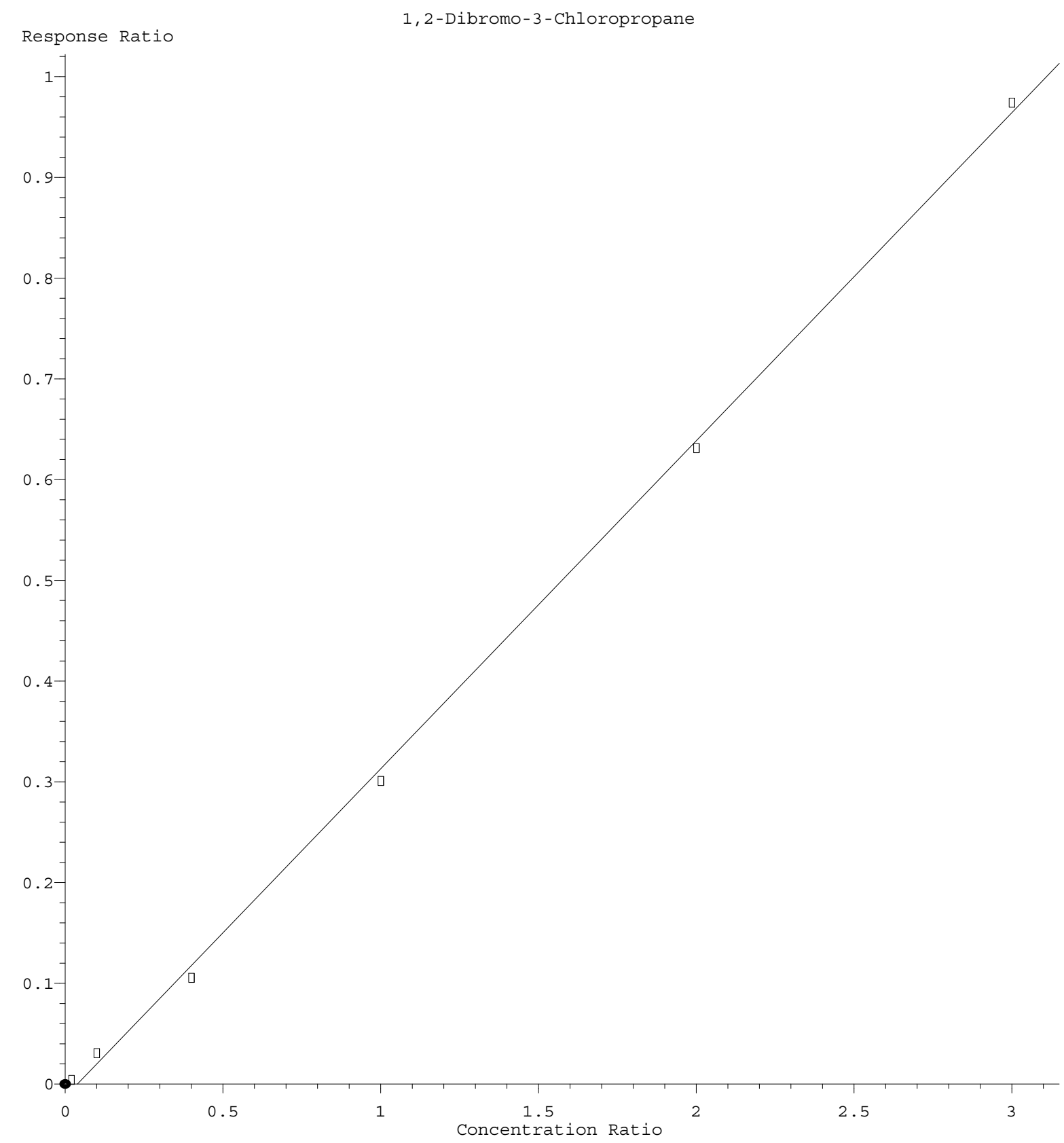
Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X032421W.M

57)	T	1,3-Dichloropr...	0.552	0.623	0.574	0.649	0.660	0.666	0.621	7.68
58)	T	2-Chloroethyl ...	0.280	0.284	0.280	0.326	0.335	0.335	0.307	9.14
59)	T	2-Hexanone	0.353	0.415	0.398	0.449	0.466	0.468	0.425	10.54
60)	T	Dibromochlorom...	0.339	0.390	0.378	0.433	0.453	0.444	0.406	10.91
61)	T	1,2-Dibromoethane	0.341	0.380	0.357	0.413	0.424	0.422	0.390	9.09
62)	S	4-Bromofluorob...		0.479	0.441	0.476	0.521	0.544	0.492	8.23
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.307	0.362	0.316	0.345	0.336	0.342	0.335	6.01
65)	PM	Chlorobenzene	0.909	1.053	0.910	1.029	1.075	1.052	1.004	7.47
66)	T	1,1,1,2-Tetrac...	0.356	0.381	0.347	0.399	0.418	0.409	0.385	7.50
67)	C	Ethyl Benzene	1.628	1.851	1.703	1.900	1.989	1.914	1.831	7.51#
68)	T	m/p-Xylenes	0.543	0.662	0.613	0.686	0.720	0.690	0.652	9.87
69)	T	o-Xylene	0.532	0.634	0.596	0.660	0.691	0.679	0.632	9.43
70)	T	Styrene	0.935	1.038	1.013	1.133	1.213	1.187	1.086	10.02
71)	P	Bromoform	0.287	0.298	0.286	0.325	0.341	0.339	0.313	8.12
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.009	3.659	3.259	3.756	3.772	3.624	3.513	8.81
74)	T	N-amyl acetate	1.585	1.713	1.530	1.745	1.794	1.833	1.700	7.01
75)	P	1,1,2,2-Tetrac...	1.158	1.299	1.206	1.260	1.261	1.264	1.241	4.08
76)	T	1,2,3-Trichlor...	1.008	1.237	1.117	1.240	1.199	1.183	1.164	7.60
77)	T	Bromobenzene	0.866	0.881	0.776	0.905	0.906	0.891	0.871	5.61
78)	T	n-propylbenzene	3.779	4.157	3.843	4.384	4.445	4.285	4.149	6.75
79)	T	2-Chlorotoluene	2.303	2.647	2.349	2.639	2.619	2.544	2.517	6.08
80)	T	1,3,5-Trimethy...	2.534	3.094	2.805	3.212	3.238	3.125	3.001	9.19
81)	T	trans-1,4-Dich...		0.329	0.325	0.397	0.418	0.440	0.382	13.71
82)	T	4-Chlorotoluene	2.721	3.118	2.769	3.126	3.141	3.053	2.988	6.41
83)	T	tert-Butylbenzene	2.647	2.902	2.687	3.064	3.184	3.050	2.922	7.45
84)	T	1,2,4-Trimethy...	2.493	3.118	2.872	3.225	3.272	3.173	3.026	9.79
85)	T	sec-Butylbenzene	2.843	3.402	3.141	3.632	3.681	3.525	3.371	9.57
86)	T	p-Isopropyltol...	2.515	3.012	2.919	3.367	3.358	3.239	3.068	10.65
87)	T	1,3-Dichlorobe...	1.495	1.609	1.412	1.595	1.660	1.638	1.568	6.08
88)	T	1,4-Dichlorobe...	1.740	1.648	1.463	1.606	1.616	1.660	1.622	5.62
89)	T	n-Butylbenzene	2.388	2.745	2.531	3.021	3.110	3.072	2.811	10.82
90)	T	Hexachloroethane	0.492	0.539	0.500	0.574	0.610	0.607	0.554	9.33
91)	T	1,2-Dichlorobe...	1.414	1.587	1.427	1.537	1.591	1.592	1.525	5.45
92)	T	1,2-Dibromo-3-...	0.207	0.307	0.263	0.301	0.316	0.325	0.286	15.48
93)	T	1,2,4-Trichlor...	0.949	0.929	0.823	1.028	1.116	1.152	0.999	12.38
94)	T	Hexachlorobuta...	0.497	0.457	0.390	0.455	0.461	0.448	0.451	7.64
95)	T	Naphthalene	2.684	3.119	2.916	3.468	3.669	3.700	3.259	12.82
96)	T	1,2,3-Trichlor...	0.976	0.936	0.905	1.028	1.064	1.083	0.999	7.14

(#) = Out of Range



Response = 6.323e-001 * Amt - 5.327e-004
Coef of Det (r^2) = 0.999617 Curve Fit: Linear
Method: M:\785VOCMSZG\grpsrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Calibration Table Last Updated: Wed Mar 24 12:25:26 2021



Response = 3.256e-001 * Amt - 1.282e-002
Coef of Det (r^2) = 0.999108 Curve Fit: Linear
Method: \\Vmsvoacmsz1\chrsrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Calibration Table Last Updated: Wed Mar 24 12:25:26 2021

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021424.D
Acq On : 24 Mar 2021 10:04
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 11:40:53 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICC001

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.623	168	91534	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.823	114	151113	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	139670	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	67239	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.00	ug/l		
Spiked Amount 50.000	Range 78 - 117		Recovery =	0.00%#			
35) Dibromofluoromethane	0.000	113	0d	0.00	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.00%#			
50) Toluene-d8	0.000	98	0d	0.00	ug/l		
Spiked Amount 50.000	Range 92 - 112		Recovery =	0.00%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.00	ug/l		
Spiked Amount 50.000	Range 83 - 123		Recovery =	0.00%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.187	85	1019	0.95	ug/l		90
3) Chloromethane	1.311	50	1771	0.87	ug/l		99
4) Vinyl Chloride	1.393	62	942	0.86	ug/l	#	75
6) Chloroethane	1.705	64	658	0.98	ug/l	#	81
7) Trichlorofluoromethane	1.911	101	1537	0.92	ug/l		89
8) Diethyl Ether	2.170	74	563	0.96	ug/l		62
9) 1,1,2-Trichlorotrifluo...	2.370	101	932	0.98	ug/l		94
12) 1,1-Dichloroethene	2.346	96	995	1.08	ug/l		92
14) Allyl chloride	2.705	41	1952	1.03	ug/l	#	91
15) Acrylonitrile	3.111	53	2701	4.61	ug/l		95
16) Acetone	2.423	43	3081	5.56	ug/l	#	82
17) Carbon Disulfide	2.546	76	3229	1.13	ug/l	#	93
18) Methyl Acetate	2.746	43	1429	0.92	ug/l	#	88
19) Methyl tert-butyl Ether	3.164	73	3122	0.90	ug/l		93
20) Methylene Chloride	2.829	84	1211	1.07	ug/l	#	68
21) trans-1,2-Dichloroethene	3.135	96	1003	0.97	ug/l		96
22) Diisopropyl ether	3.823	45	3275	0.90	ug/l	#	90
23) Vinyl Acetate	3.782	43	12954	4.09	ug/l		95
24) 1,1-Dichloroethane	3.664	63	1801	0.91	ug/l	#	94
25) 2-Butanone	4.635	43	3985	4.71	ug/l		94
26) 2,2-Dichloropropane	4.547	77	1651	0.96	ug/l	#	75
27) cis-1,2-Dichloroethene	4.552	96	1120	0.94	ug/l		89
28) Bromochloromethane	4.982	49	1032	1.11	ug/l	#	79
29) Tetrahydrofuran	5.094	42	2537	4.55	ug/l	#	82
30) Chloroform	5.176	83	1838	0.89	ug/l		96
32) 1,1,1-Trichloroethane	5.453	97	1665	0.91	ug/l	#	46
36) 1,1-Dichloropropene	5.758	75	1493	0.99	ug/l	#	76
37) Ethyl Acetate	4.788	43	1726	0.99	ug/l	#	79
38) Carbon Tetrachloride	5.747	117	1443	0.91	ug/l	#	92
39) Methylcyclohexane	7.435	83	1568	0.93	ug/l	#	83
40) Benzene	6.106	78	3856	0.92	ug/l		96
41) Methacrylonitrile	5.005	41	1034	1.02	ug/l	#	78
42) 1,2-Dichloroethane	6.153	62	1633	0.90	ug/l		76
43) Isopropyl Acetate	6.406	43	2489	0.87	ug/l		92
44) Trichloroethene	7.182	130	1106	1.00	ug/l		97
45) 1,2-Dichloropropane	7.488	63	1031	0.91	ug/l		90

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021424.D
Acq On : 24 Mar 2021 10:04
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : VSTDICC001

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

Quant Time: Mar 24 11:40:53 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.641	93	766	0.93	ug/l		88
47) Bromodichloromethane	7.870	83	1494	0.90	ug/l		87
48) Methyl methacrylate	7.747	41	1318	0.86	ug/l	#	76
49) 1,4-Dioxane	7.712	88	451	15.86	ug/l	#	60
51) 4-Methyl-2-Pentanone	8.618	43	6965	4.12	ug/l		88
52) Toluene	8.759	92	2213	0.85	ug/l		88
53) t-1,3-Dichloropropene	9.018	75	1404	0.80	ug/l	#	86
54) cis-1,3-Dichloropropene	8.406	75	1491	0.80	ug/l	#	85
55) 1,1,2-Trichloroethane	9.194	97	920	0.86	ug/l	#	85
56) Ethyl methacrylate	9.159	69	1246	0.73	ug/l	#	51
57) 1,3-Dichloropropane	9.347	76	1667	0.90	ug/l		95
58) 2-Chloroethyl Vinyl ether	8.288	63	4226	4.50	ug/l		98
59) 2-Hexanone	9.471	43	5338	4.22	ug/l		82
60) Dibromochloromethane	9.565	129	1026	0.85	ug/l		97
61) 1,2-Dibromoethane	9.653	107	1032	0.88	ug/l		98
64) Tetrachloroethene	9.312	164	858	0.83	ug/l	#	78
65) Chlorobenzene	10.118	112	2538	0.88	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.200	131	994	0.93	ug/l	#	66
67) Ethyl Benzene	10.236	91	4548	0.86	ug/l		93
68) m/p-Xylenes	10.341	106	3034	1.60	ug/l		86
69) o-Xylene	10.683	106	1485	0.81	ug/l		81
70) Styrene	10.694	104	2611	0.84	ug/l		95
71) Bromoform	10.841	173	802	0.93	ug/l	#	90
73) Isopropylbenzene	11.000	105	4046	0.81	ug/l		96
74) N-amyl acetate	10.883	43	2131	0.86	ug/l	#	85
75) 1,1,2,2-Tetrachloroethane	11.247	83	1557	0.94	ug/l		91
76) 1,2,3-Trichloropropane	11.277	75	1356m	0.85	ug/l		
77) Bromobenzene	11.236	156	1165	0.98	ug/l		99
78) n-propylbenzene	11.342	91	5082	0.88	ug/l		93
79) 2-Chlorotoluene	11.406	91	3097	0.88	ug/l		96
80) 1,3,5-Trimethylbenzene	11.489	105	3408	0.81	ug/l		98
82) 4-Chlorotoluene	11.495	91	3659	0.88	ug/l		99
83) tert-Butylbenzene	11.753	119	3559	0.89	ug/l		91
84) 1,2,4-Trimethylbenzene	11.789	105	3352	0.78	ug/l		98
85) sec-Butylbenzene	11.930	105	3823	0.81	ug/l		99
86) p-Isopropyltoluene	12.048	119	3382	0.78	ug/l	#	86
87) 1,3-Dichlorobenzene	12.006	146	2011	0.93	ug/l		97
88) 1,4-Dichlorobenzene	12.077	146	2340m	1.07	ug/l		
89) n-Butylbenzene	12.371	91	3212	0.81	ug/l		99
90) Hexachloroethane	12.577	117	662	0.98	ug/l		79
91) 1,2-Dichlorobenzene	12.377	146	1902	0.91	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	12.983	75	278	0.66	ug/l		91
93) 1,2,4-Trichlorobenzene	13.624	180	1276	0.93	ug/l		98
94) Hexachlorobutadiene	13.765	225	668	1.15	ug/l		97
95) Naphthalene	13.818	128	3610	0.77	ug/l		99
96) 1,2,3-Trichlorobenzene	14.001	180	1313	0.96	ug/l		96

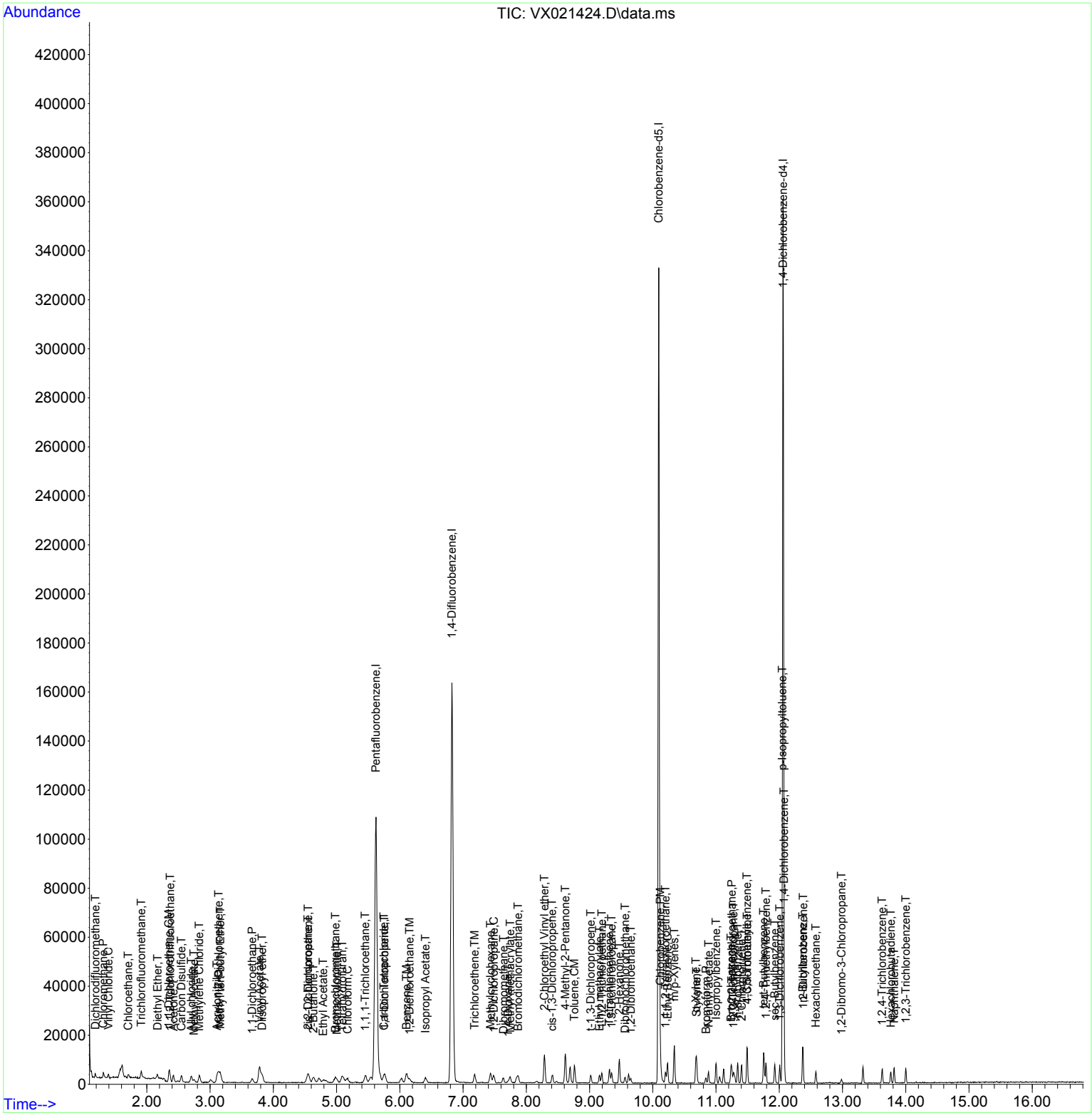
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021424.D
Acq On : 24 Mar 2021 10:04
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 24 11:40:53 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

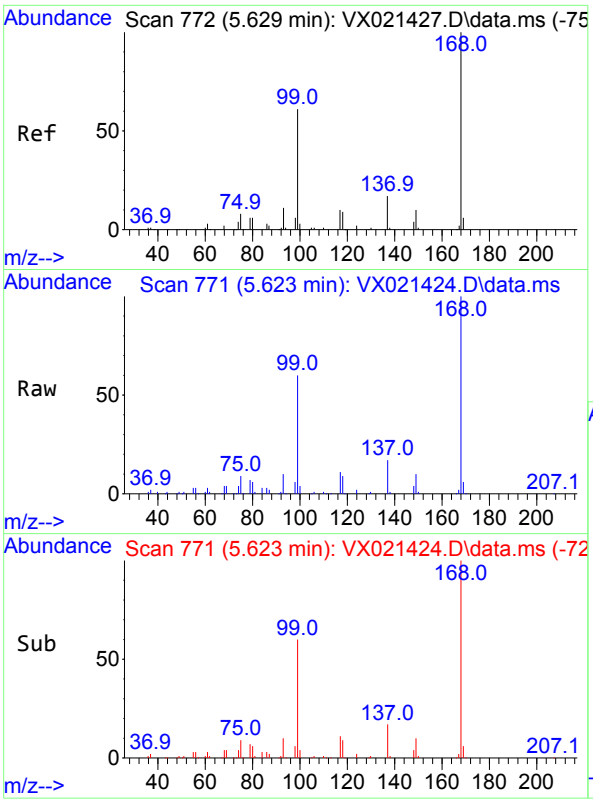
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

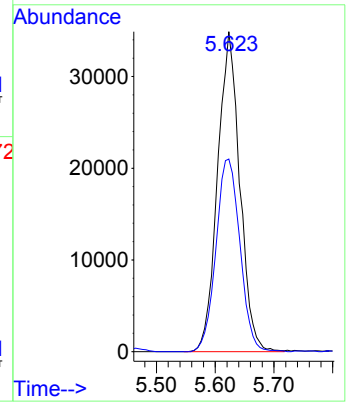
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MMDadoda
3/25/2021 9:49:16 AM

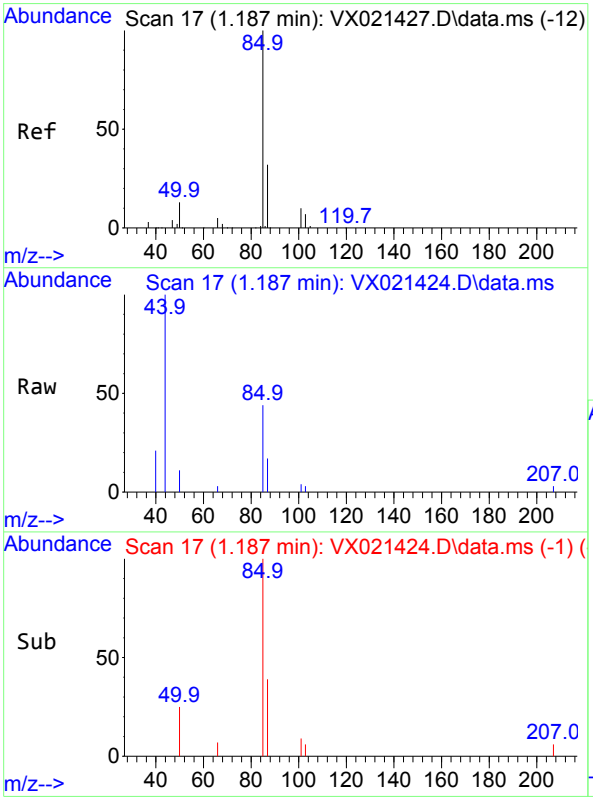


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 771
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:168 Resp: 91534

Ion	Ratio	Lower	Upper
168	100		
99	60.2	45.8	68.6

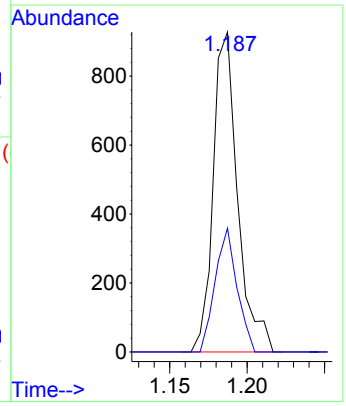




#2
Dichlorodifluoromethane
Concen: 0.95 ug/l
RT: 1.187 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

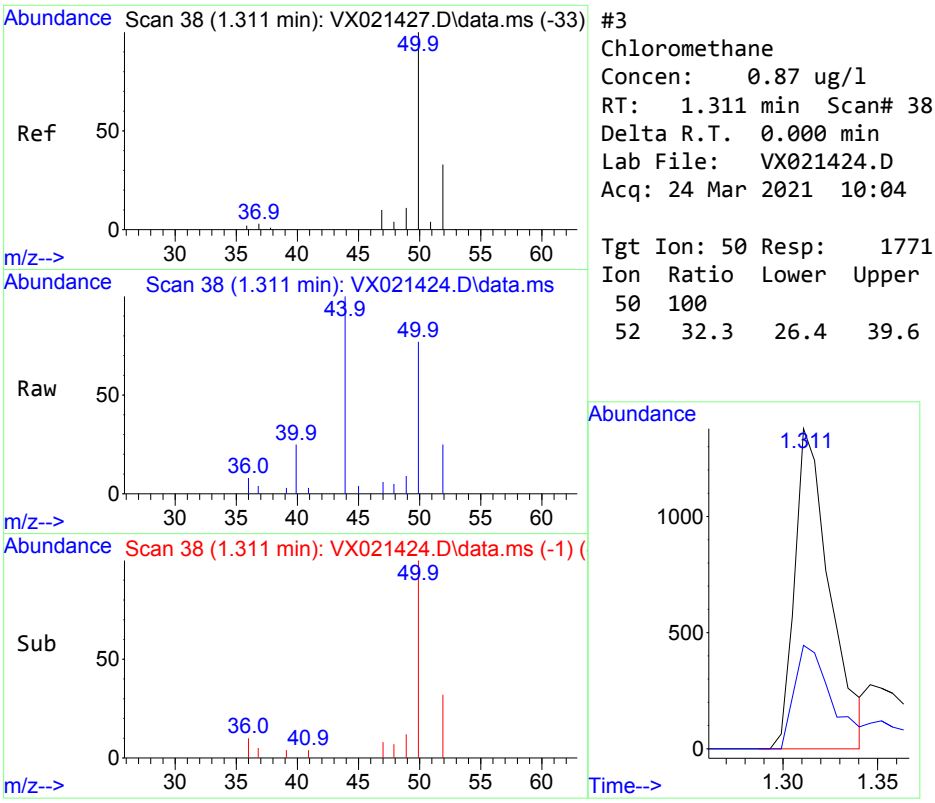
Tgt Ion: 85 Resp: 1019

Ion	Ratio	Lower	Upper
85	100		
87	38.7	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

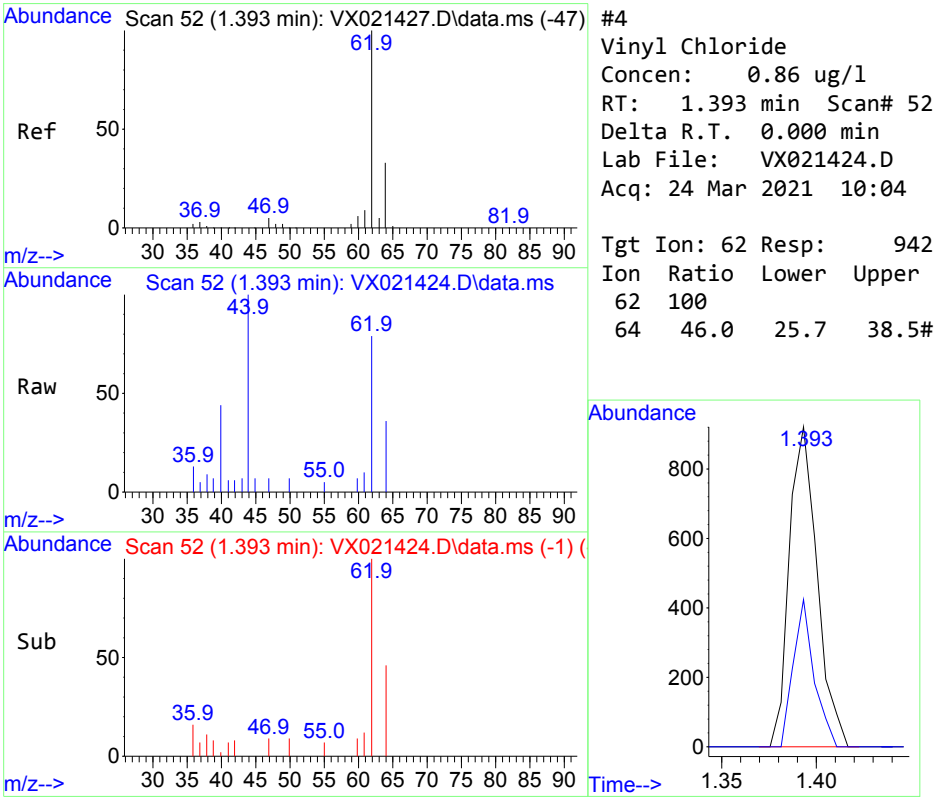
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM



#3
Chloromethane
Concen: 0.87 ug/l
RT: 1.311 min Scan# 38
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 50 Resp: 1771

Ion	Ratio	Lower	Upper
50	100		
52	32.3	26.4	39.6



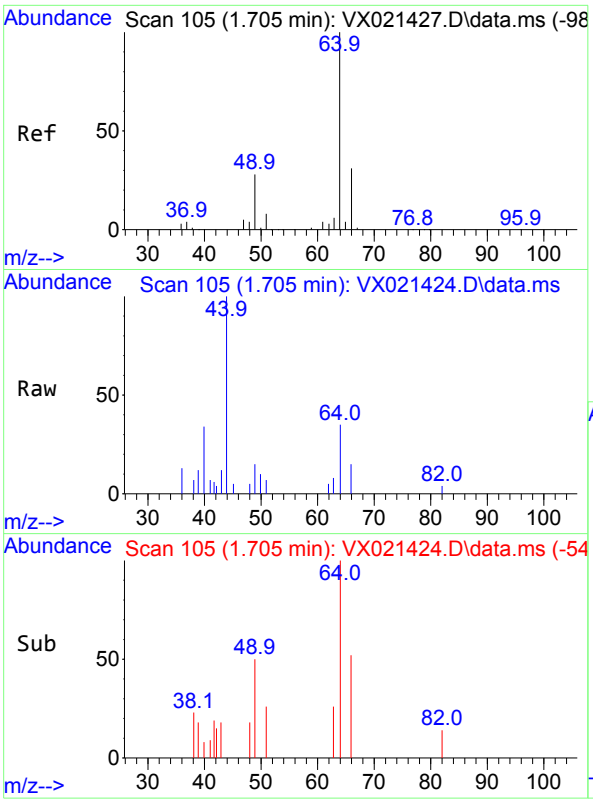
#4
Vinyl Chloride
Concen: 0.86 ug/l
RT: 1.393 min Scan# 52
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 62 Resp: 942

Ion	Ratio	Lower	Upper
62	100		
64	46.0	25.7	38.5#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

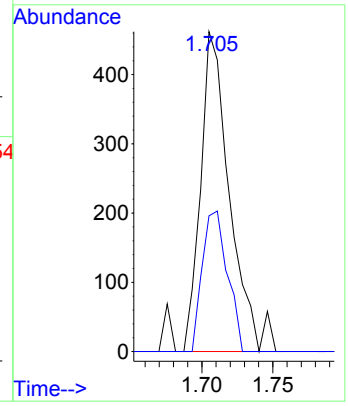
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

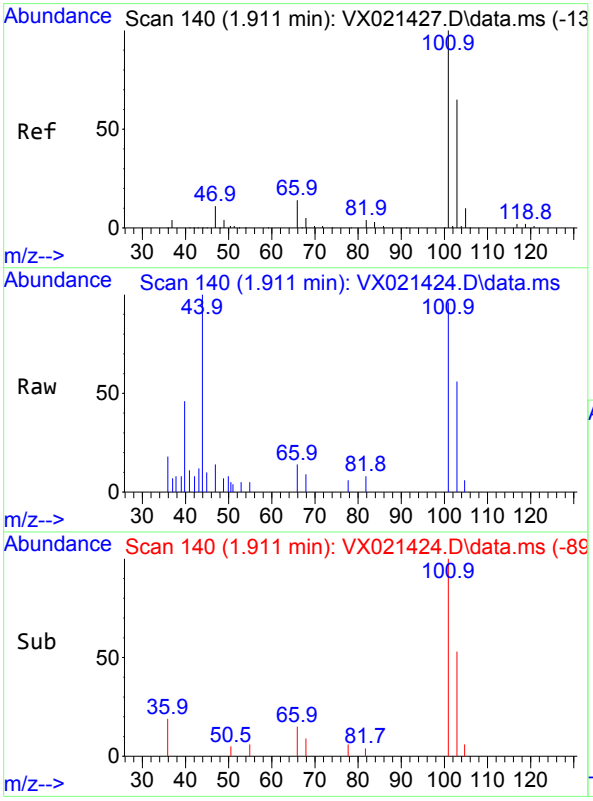


#6
Chloroethane
Concen: 0.98 ug/l
RT: 1.705 min Scan# 105
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 64 Resp: 658

Ion	Ratio	Lower	Upper
64	100		
66	42.4	25.4	38.0#

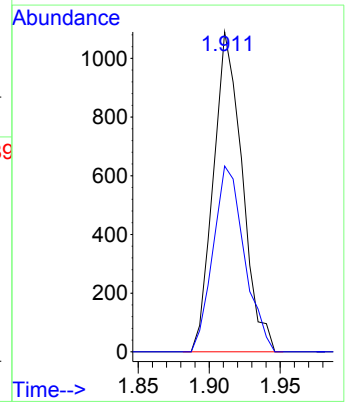




#7
Trichlorofluoromethane
Concen: 0.92 ug/l
RT: 1.911 min Scan# 140
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

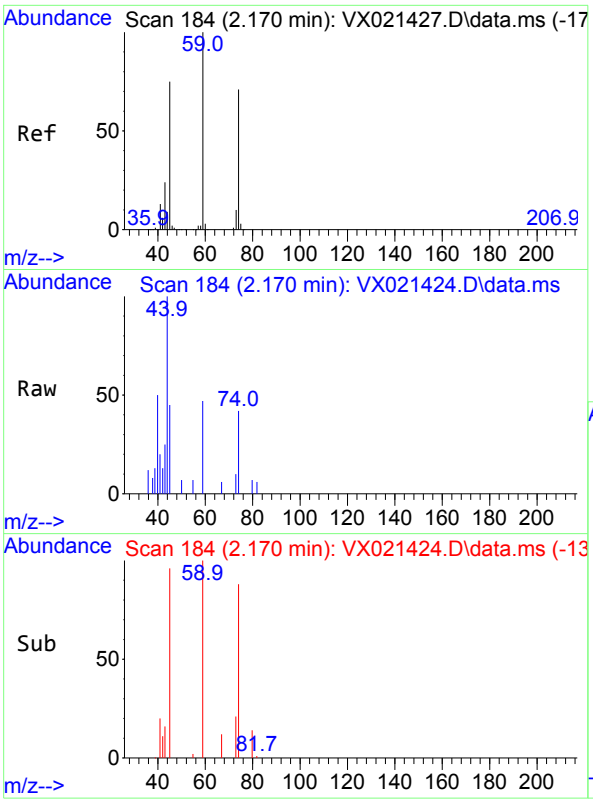
Tgt Ion:101 Resp: 1537

Ion	Ratio	Lower	Upper
101	100		
103	58.1	53.2	79.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

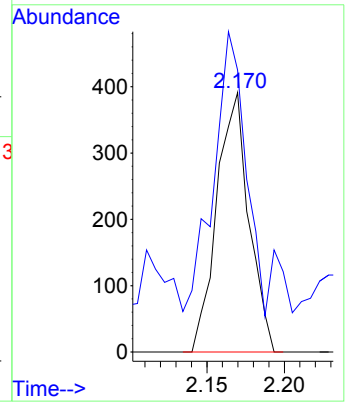
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

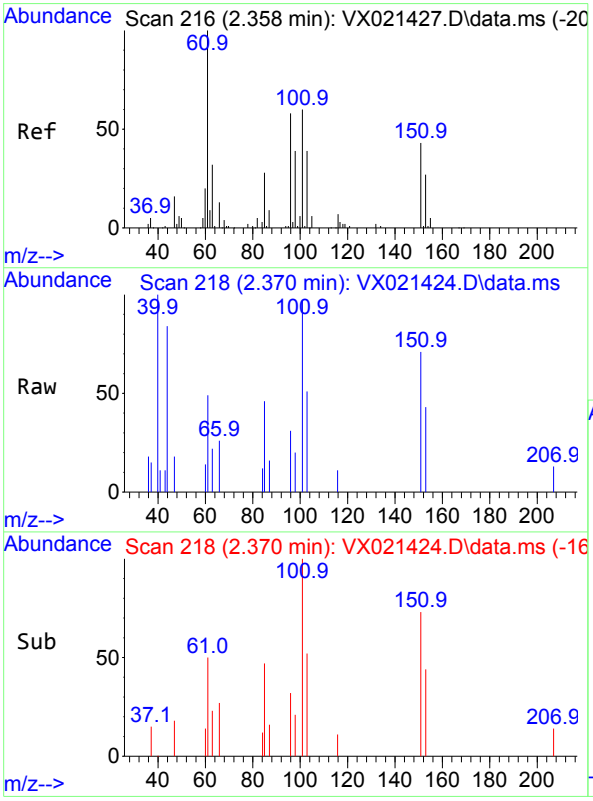


#8
Diethyl Ether
Concen: 0.96 ug/l
RT: 2.170 min Scan# 184
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 74 Resp: 563

Ion	Ratio	Lower	Upper
74	100		
45	124.7	44.5	133.5

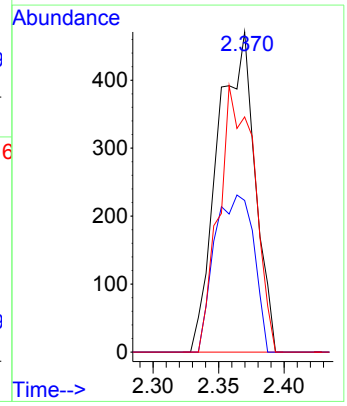




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.98 ug/l
RT: 2.370 min Scan# 218
Delta R.T. 0.012 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

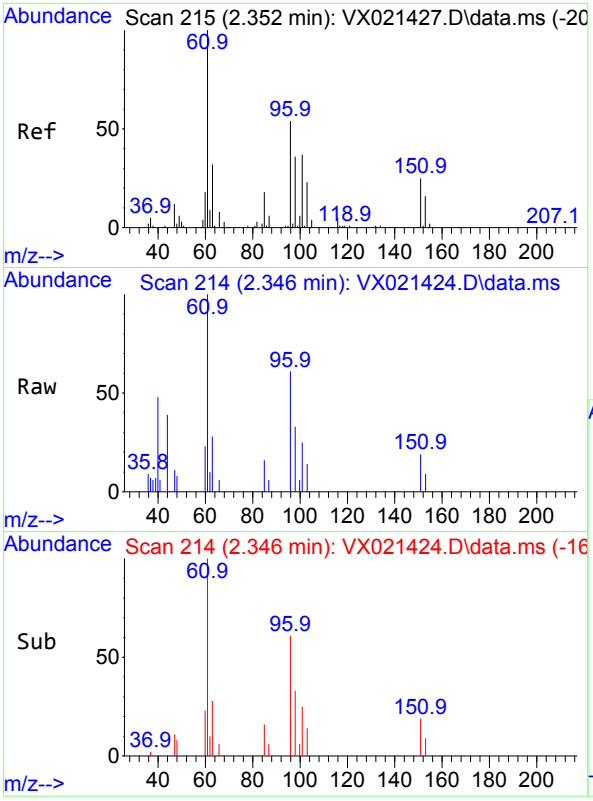
Tgt Ion:101 Resp: 932

Ion	Ratio	Lower	Upper
101	100		
85	51.7	34.9	52.3
151	78.8	61.4	92.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

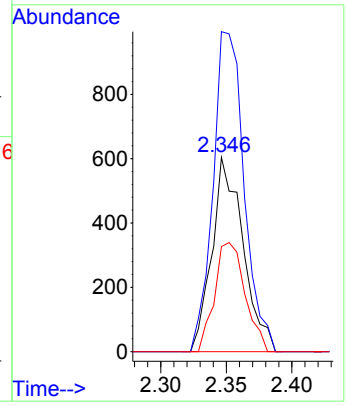
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

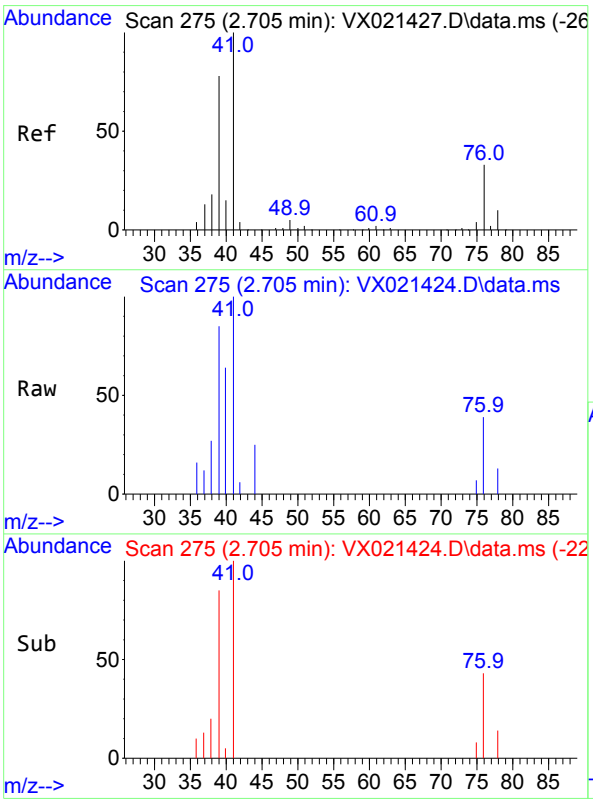


#12
1,1-Dichloroethene
Concen: 1.08 ug/l
RT: 2.346 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 96 Resp: 995

Ion	Ratio	Lower	Upper
96	100		
61	164.7	124.6	187.0
98	54.1	50.6	76.0

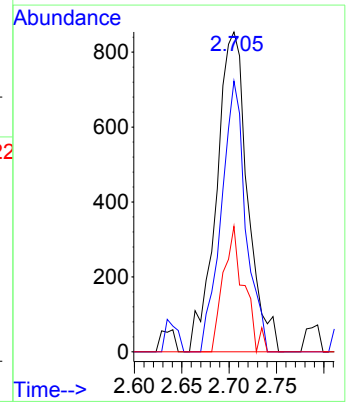




#14
Allyl chloride
Concen: 1.03 ug/l
RT: 2.705 min Scan# 275
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

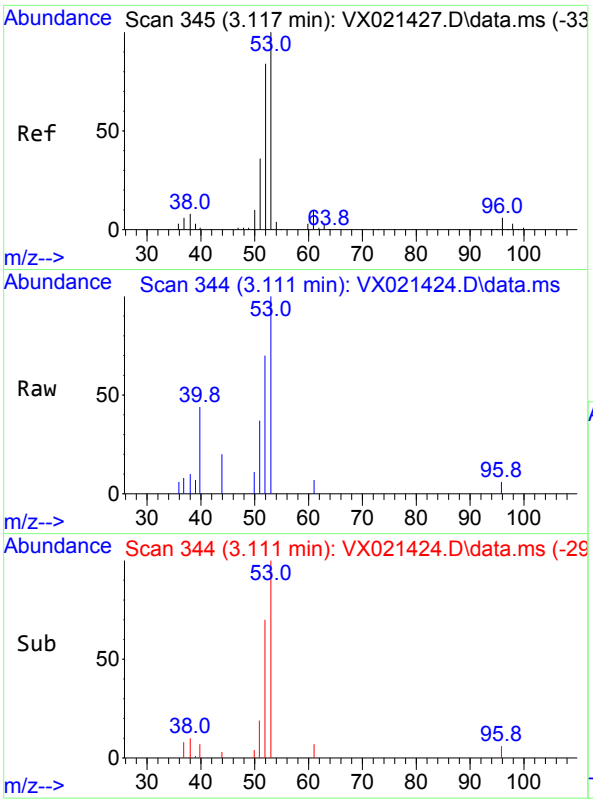
Tgt Ion: 41 Resp: 1952

Ion	Ratio	Lower	Upper
41	100		
39	67.0	51.6	77.4
76	26.3	30.5	45.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

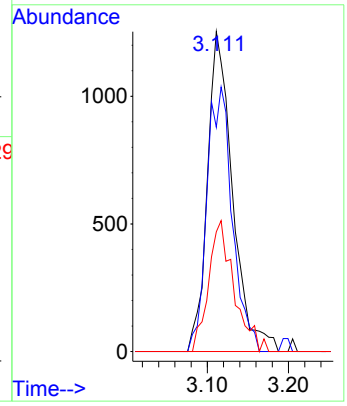
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

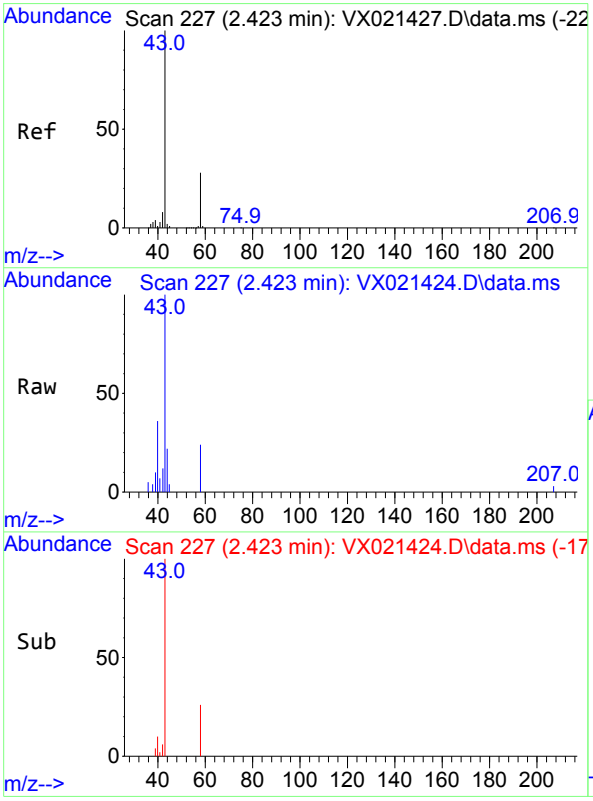


#15
Acrylonitrile
Concen: 4.61 ug/l
RT: 3.111 min Scan# 344
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 53 Resp: 2701

Ion	Ratio	Lower	Upper
53	100		
52	83.3	65.3	97.9
51	41.3	28.2	42.2

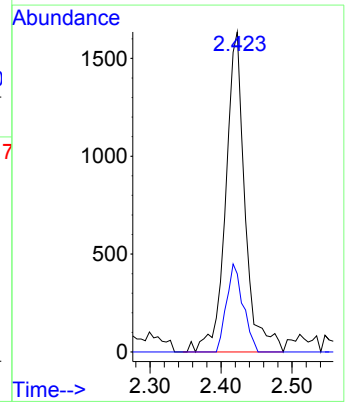




#16
Acetone
Concen: 5.56 ug/l
RT: 2.423 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

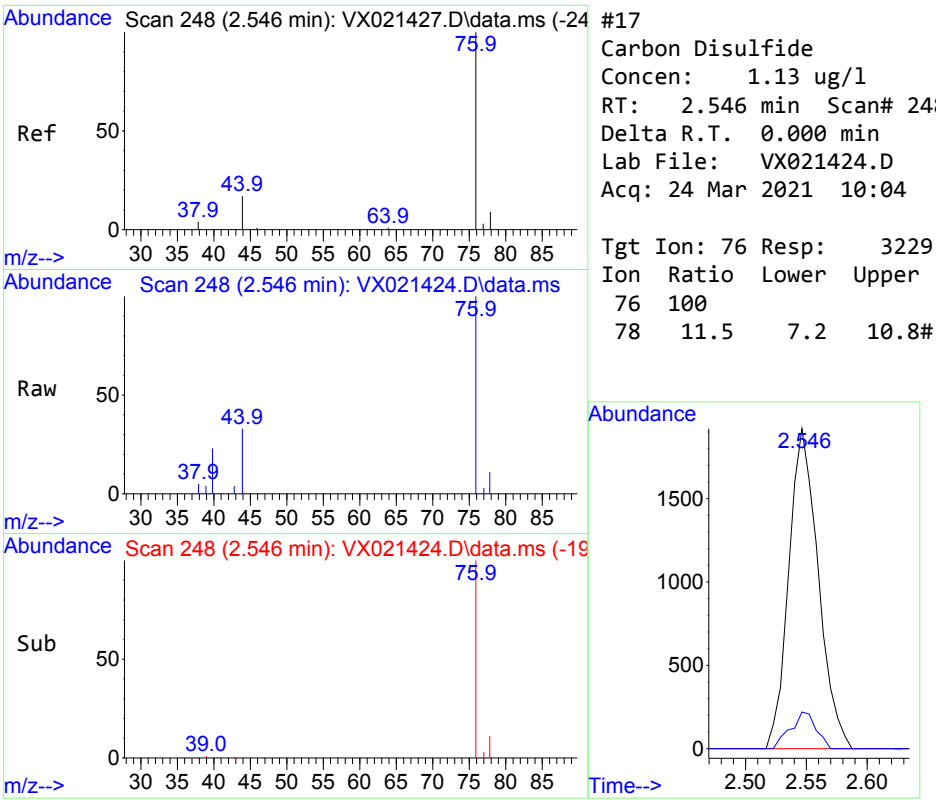
Tgt Ion: 43 Resp: 3081

Ion	Ratio	Lower	Upper
43	100		
58	24.4	27.8	41.8#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

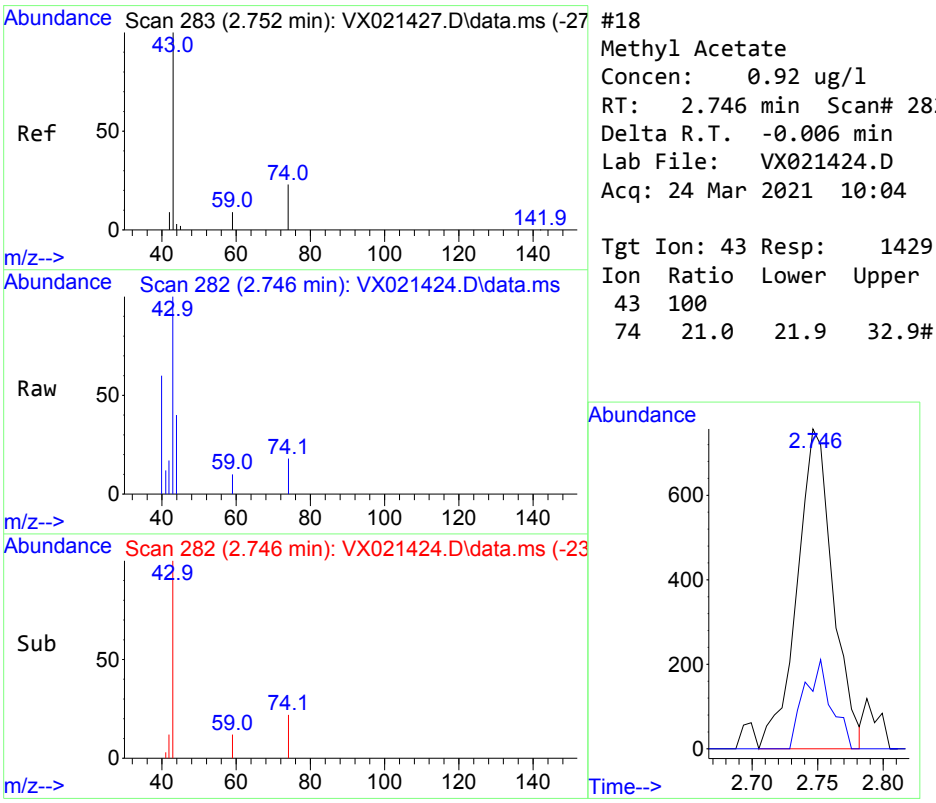
Manual Integrations APPROVED
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3/25/2021 9:49:16 AM



#17
Carbon Disulfide
Concen: 1.13 ug/l
RT: 2.546 min Scan# 248
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 76 Resp: 3229

Ion	Ratio	Lower	Upper
76	100		
78	11.5	7.2	10.8#



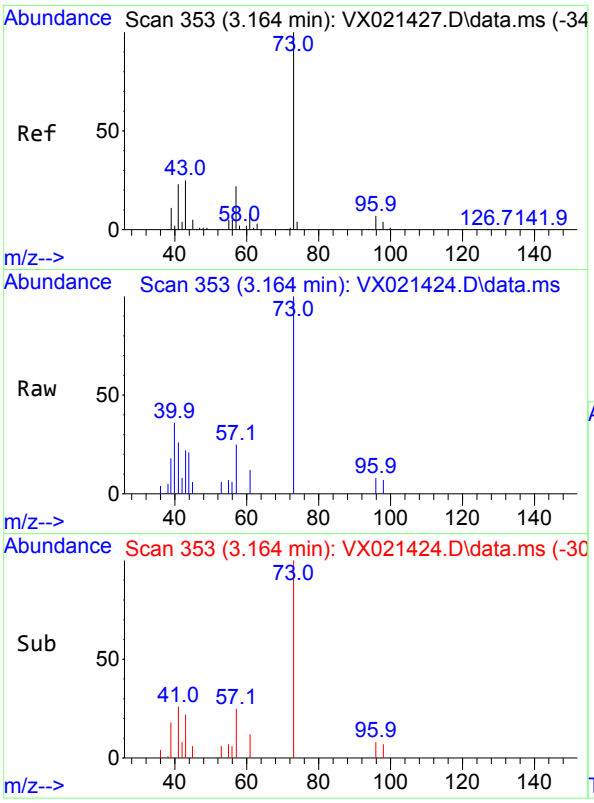
#18
Methyl Acetate
Concen: 0.92 ug/l
RT: 2.746 min Scan# 282
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 43 Resp: 1429

Ion	Ratio	Lower	Upper
43	100		
74	21.0	21.9	32.9#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

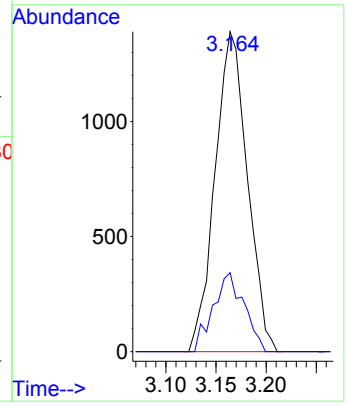
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

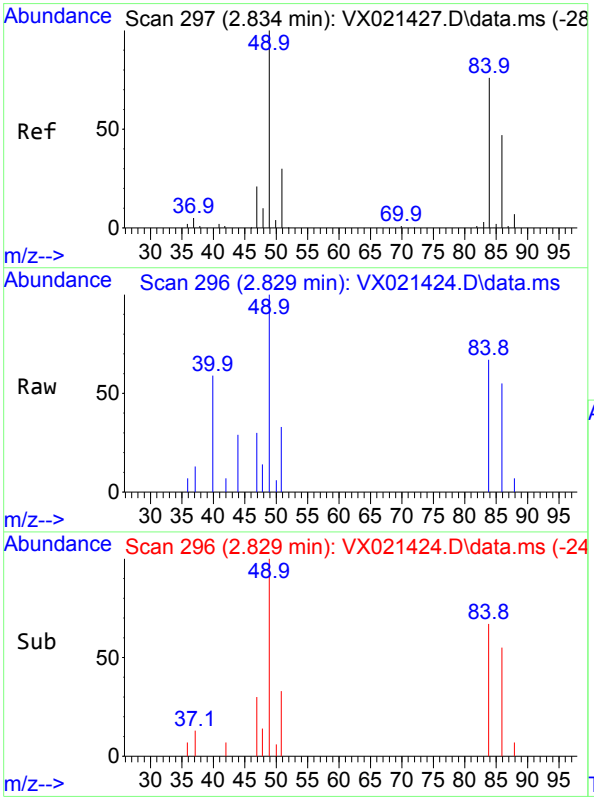


#19
Methyl tert-butyl Ether
Concen: 0.90 ug/l
RT: 3.164 min Scan# 353
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 73 Resp: 3122

Ion	Ratio	Lower	Upper
73	100		
57	24.7	17.1	25.7

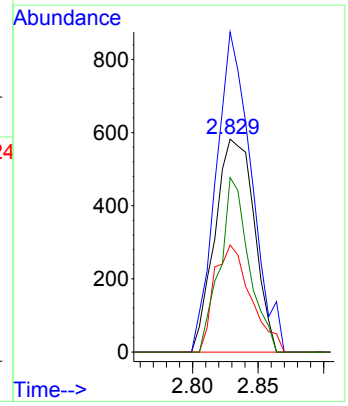




#20
Methylene Chloride
Concen: 1.07 ug/l
RT: 2.829 min Scan# 296
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

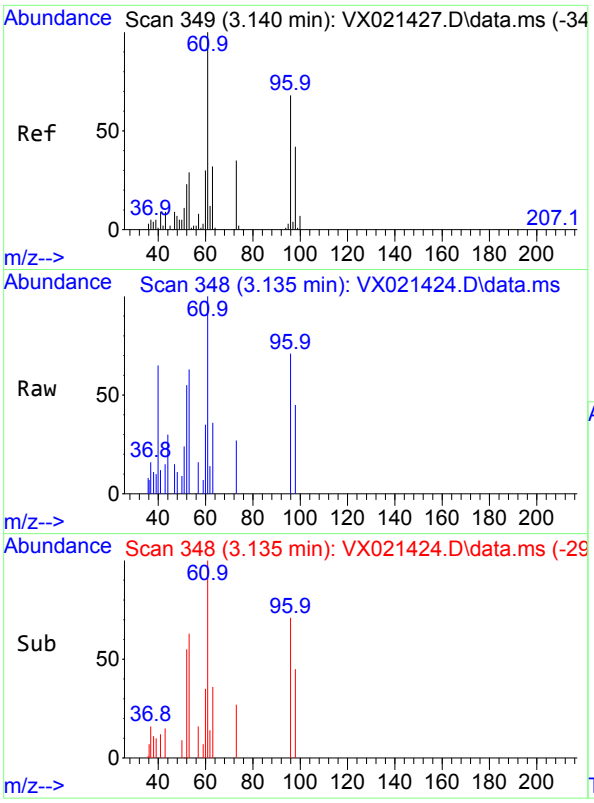
Tgt Ion: 84 Resp: 1211

Ion	Ratio	Lower	Upper
84	100		
49	150.3	88.6	132.8#
51	50.3	27.0	40.6#
86	82.0	50.3	75.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

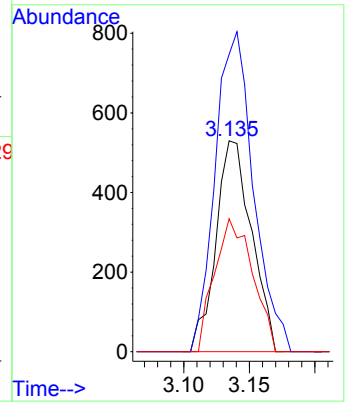
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

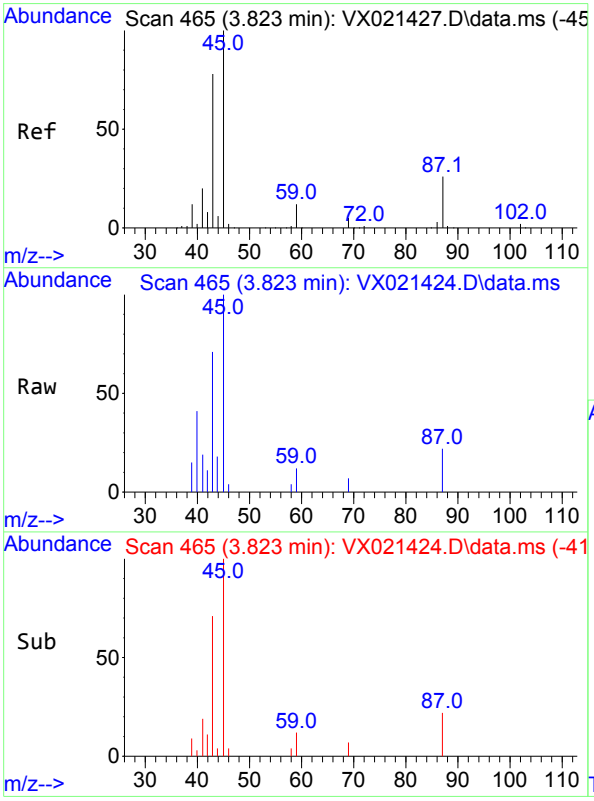


#21
trans-1,2-Dichloroethene
Concen: 0.97 ug/l
RT: 3.135 min Scan# 348
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 96 Resp: 1003

Ion	Ratio	Lower	Upper
96	100		
61	140.9	107.7	161.5
98	63.0	50.4	75.6

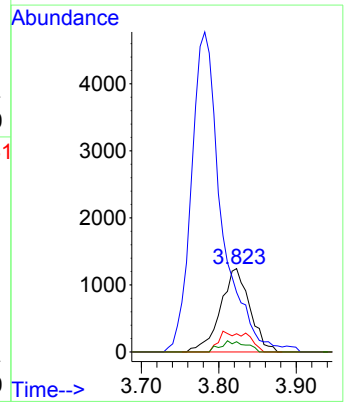




#22
Diisopropyl ether
Concen: 0.90 ug/l
RT: 3.823 min Scan# 465
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

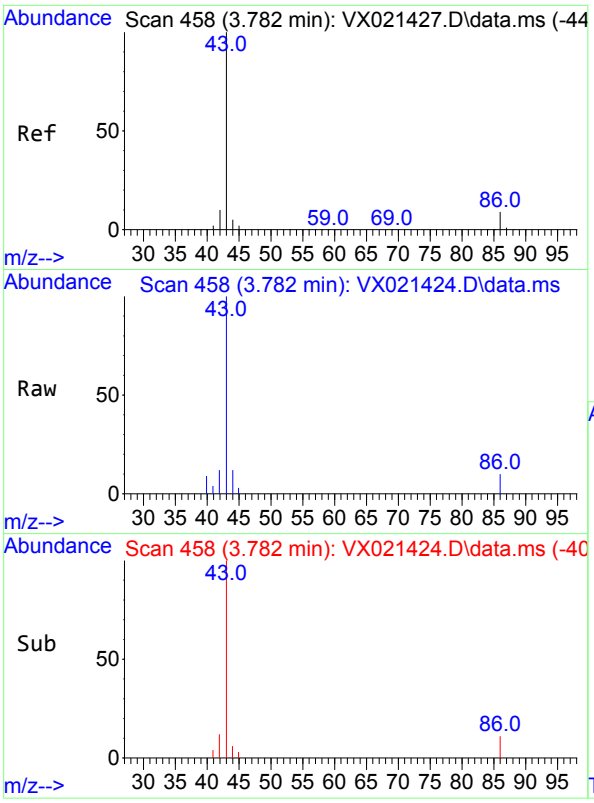
Tgt Ion: 45 Resp: 3275

Ion	Ratio	Lower	Upper
45	100		
43	65.5	58.0	87.0
87	21.9	25.4	38.0#
59	12.4	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

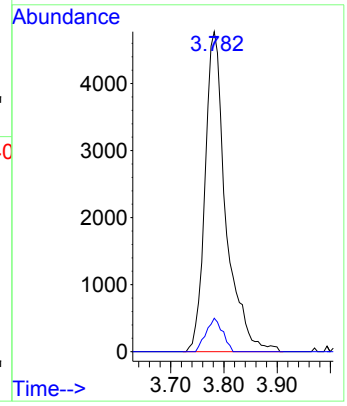
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

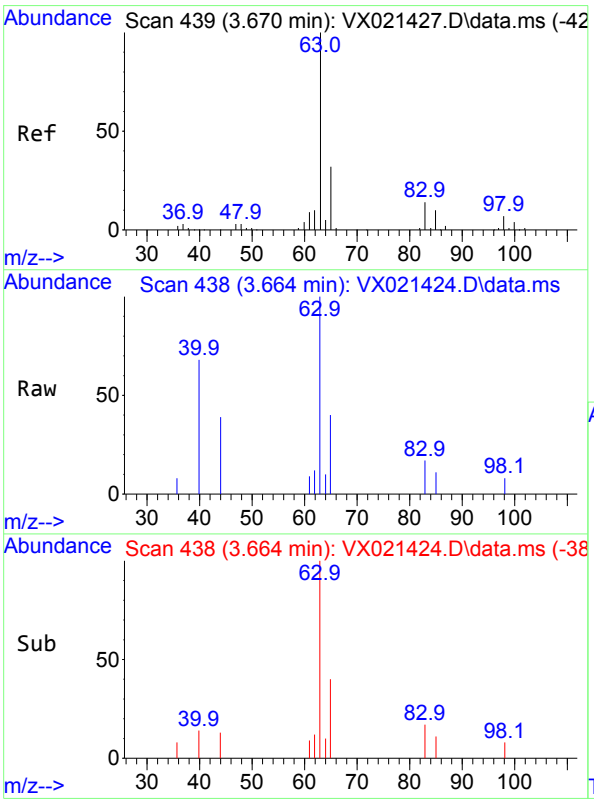


#23
Vinyl Acetate
Concen: 4.09 ug/l
RT: 3.782 min Scan# 458
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 43 Resp: 12954

Ion	Ratio	Lower	Upper
43	100		
86	10.5	9.9	14.9

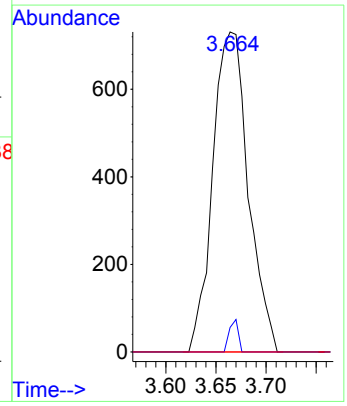




#24
1,1-Dichloroethane
Concen: 0.91 ug/l
RT: 3.664 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

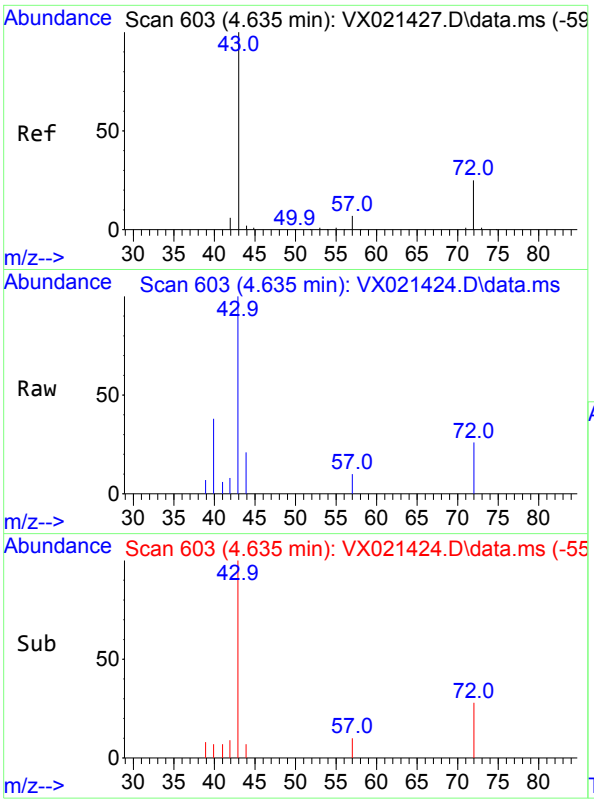
Tgt Ion: 63 Resp: 1801

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.8	11.2
100	0.0	2.5	7.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

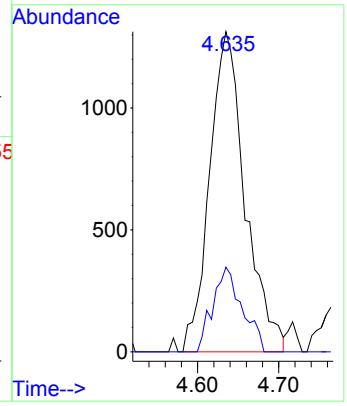
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

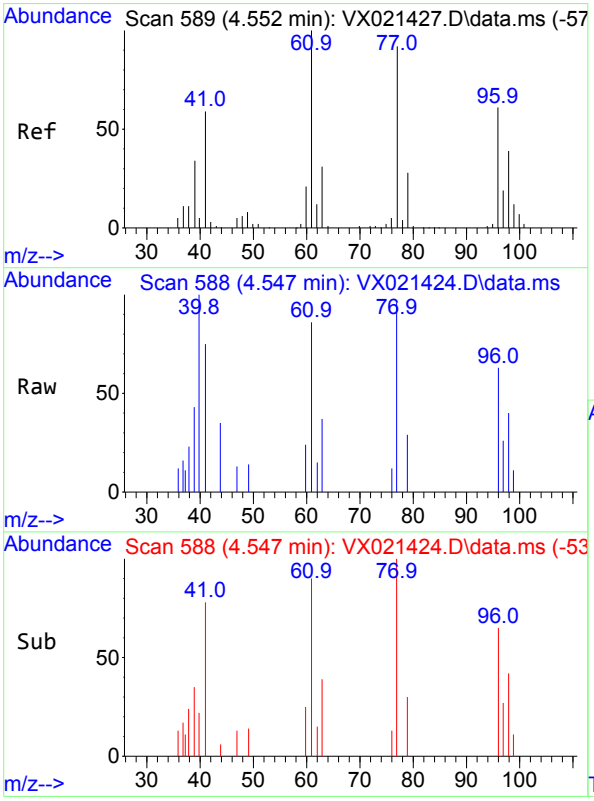


#25
2-Butanone
Concen: 4.71 ug/l
RT: 4.635 min Scan# 603
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 43 Resp: 3985

Ion	Ratio	Lower	Upper
43	100		
72	26.4	23.7	35.5

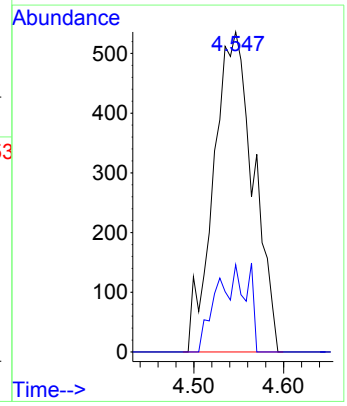




#26
2,2-Dichloropropane
Concen: 0.96 ug/l
RT: 4.547 min Scan# 588
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

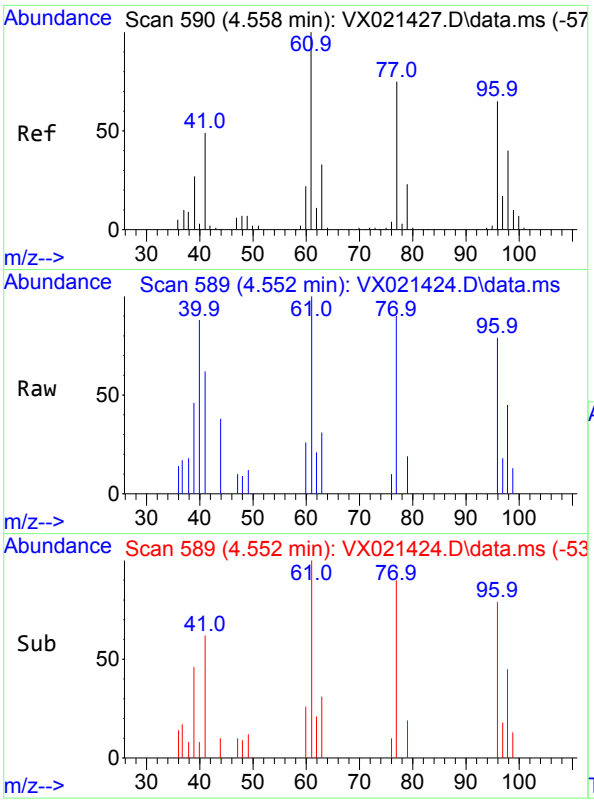
Tgt Ion: 77 Resp: 1651

Ion	Ratio	Lower	Upper
77	100		
97	11.0	11.7	35.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

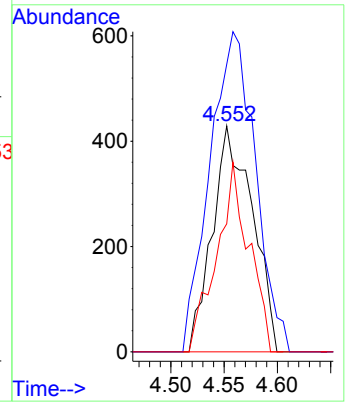
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

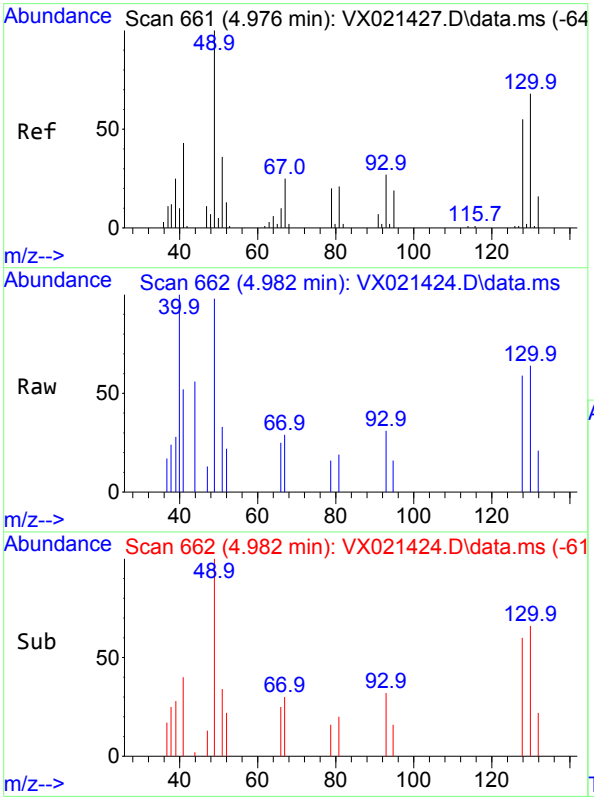


#27
cis-1,2-Dichloroethene
Concen: 0.94 ug/l
RT: 4.552 min Scan# 589
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 96 Resp: 1120

Ion	Ratio	Lower	Upper
96	100		
61	161.3	0.0	285.6
98	67.5	0.0	129.6

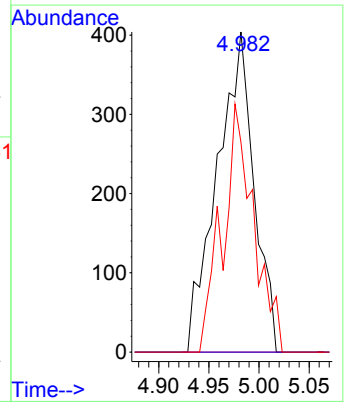




#28
Bromochloromethane
Concen: 1.11 ug/l
RT: 4.982 min Scan# 662
Delta R.T. 0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

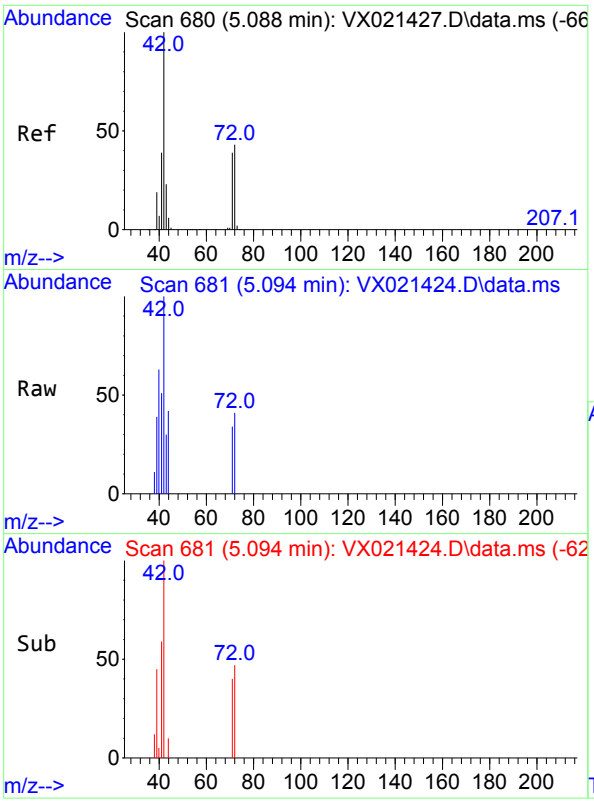
Tgt Ion: 49 Resp: 1032

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	65.6	68.2	102.2#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

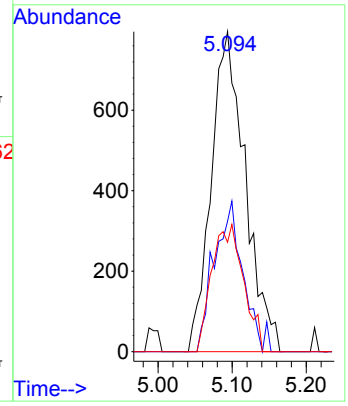
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

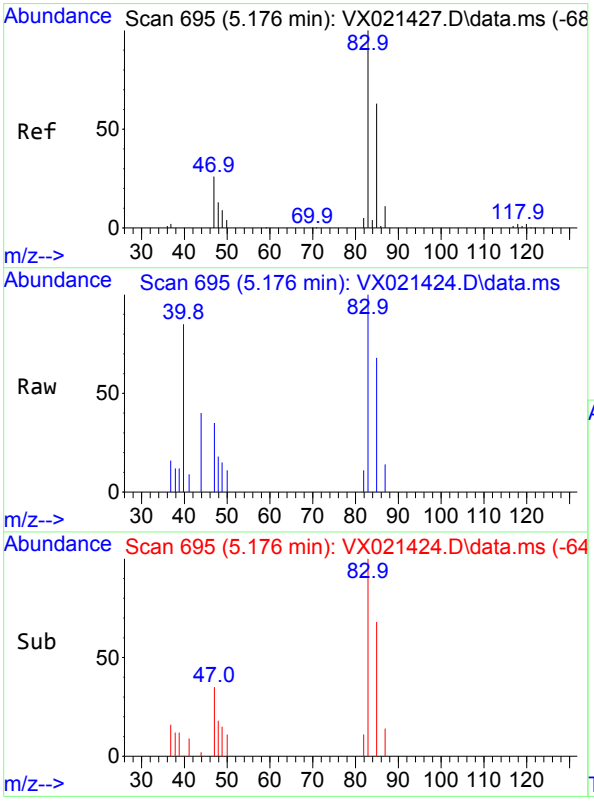


#29
Tetrahydrofuran
Concen: 4.55 ug/l
RT: 5.094 min Scan# 681
Delta R.T. 0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 42 Resp: 2537

Ion	Ratio	Lower	Upper
42	100		
72	38.6	41.7	62.5#
71	36.9	38.4	57.6#

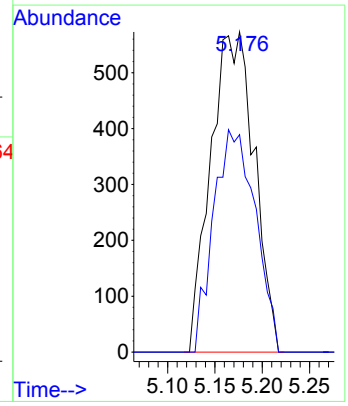




#30
Chloroform
Concen: 0.89 ug/l
RT: 5.176 min Scan# 695
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

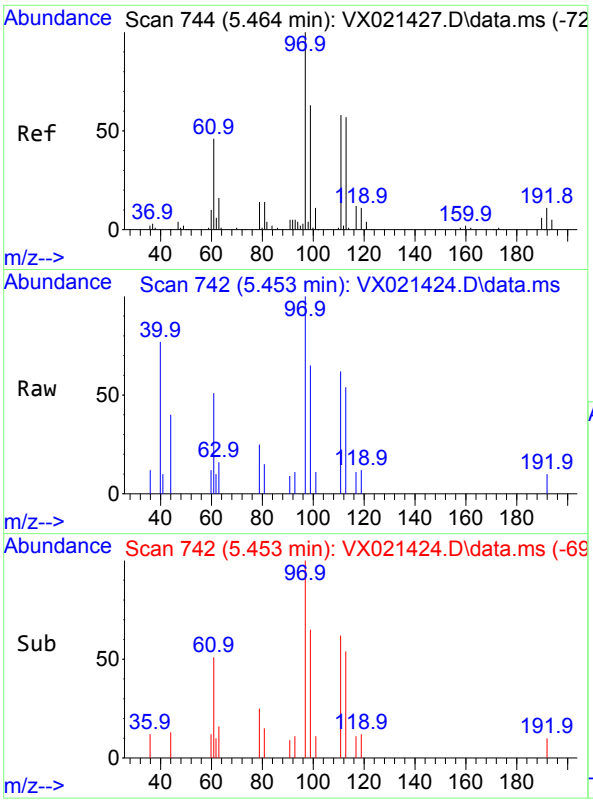
Tgt Ion: 83 Resp: 1838

Ion	Ratio	Lower	Upper
83	100		
85	67.9	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

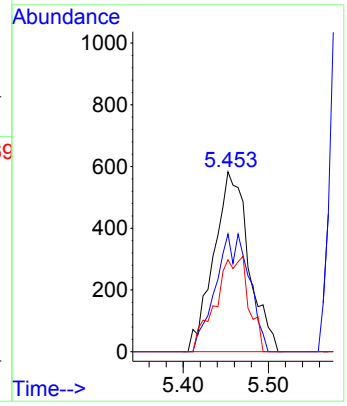
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

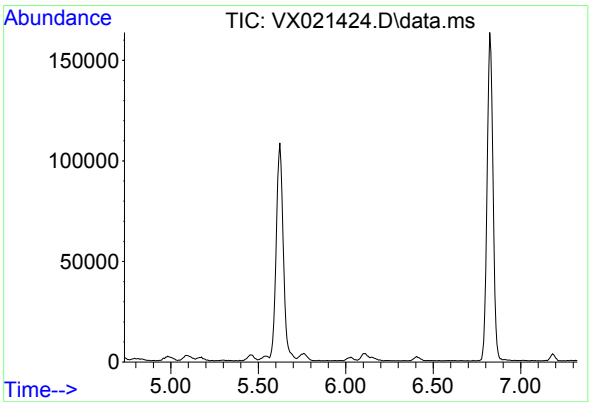


#32
1,1,1-Trichloroethane
Concen: 0.91 ug/l
RT: 5.453 min Scan# 742
Delta R.T. -0.012 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 97 Resp: 1665

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.5	77.3#
61	49.9	34.2	51.4



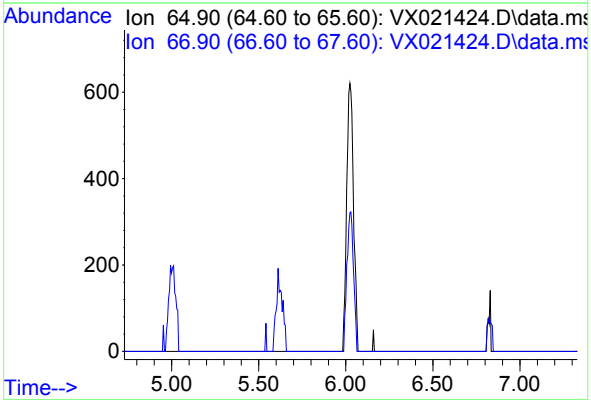


#33
1,2-Dichloroethane-d4
Concen: 0.00 ug/l
Expected RT: 6.03 min

Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

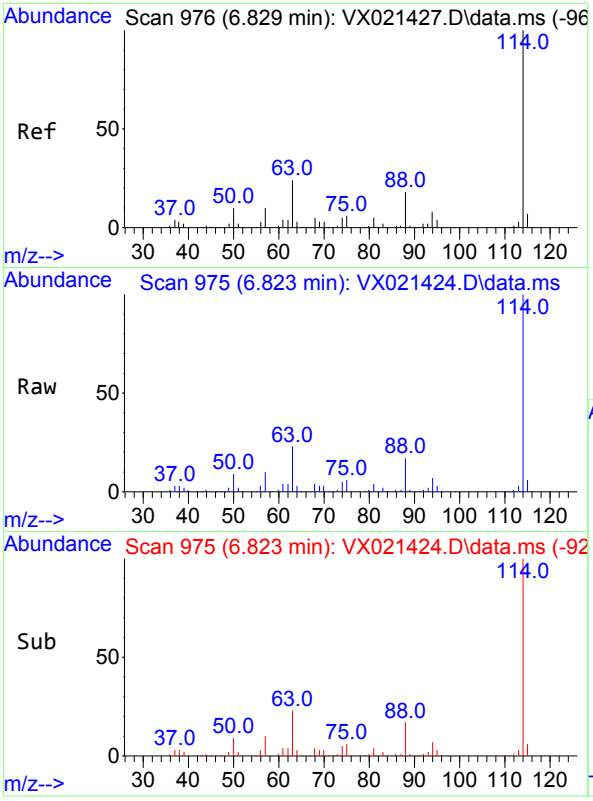
Tgt Ion: 65

Sig	Exp Ratio
65	100
67	52.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

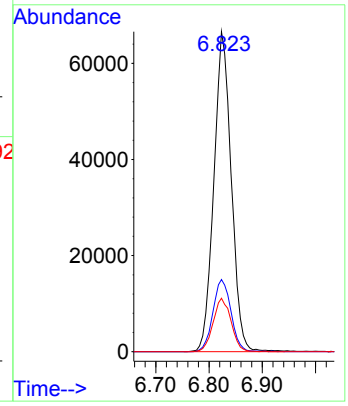
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

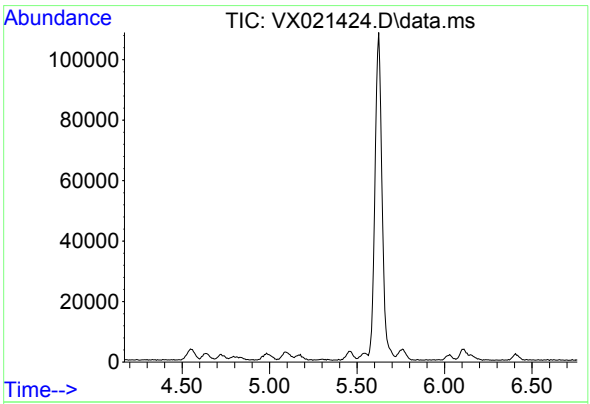


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.823 min Scan# 975
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:114 Resp: 151113

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	40.8
88	16.7	0.0	32.8



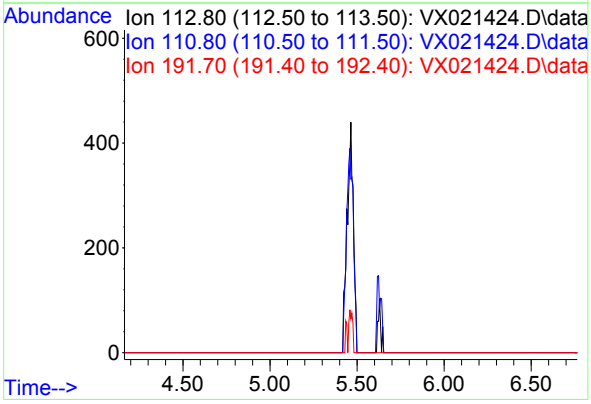


#35
Dibromofluoromethane
Concen: 0.00 ug/l
Expected RT: 5.46 min

Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

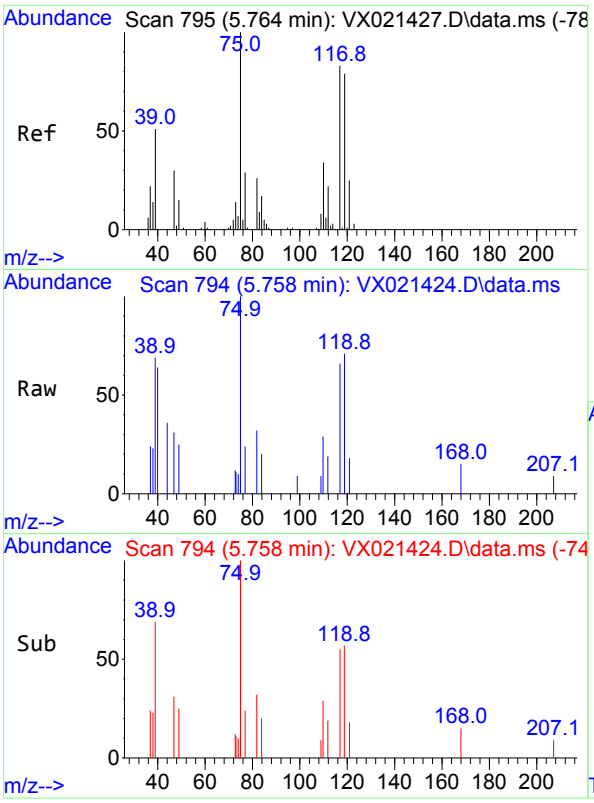
Tgt Ion: 113

Sig	Exp Ratio
113	100
111	102.4
192	20.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

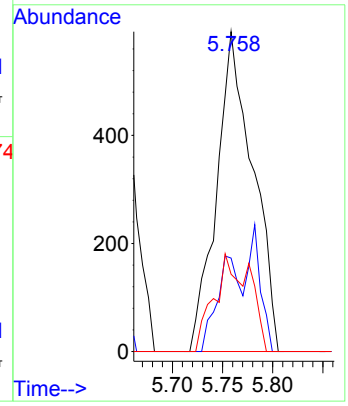
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

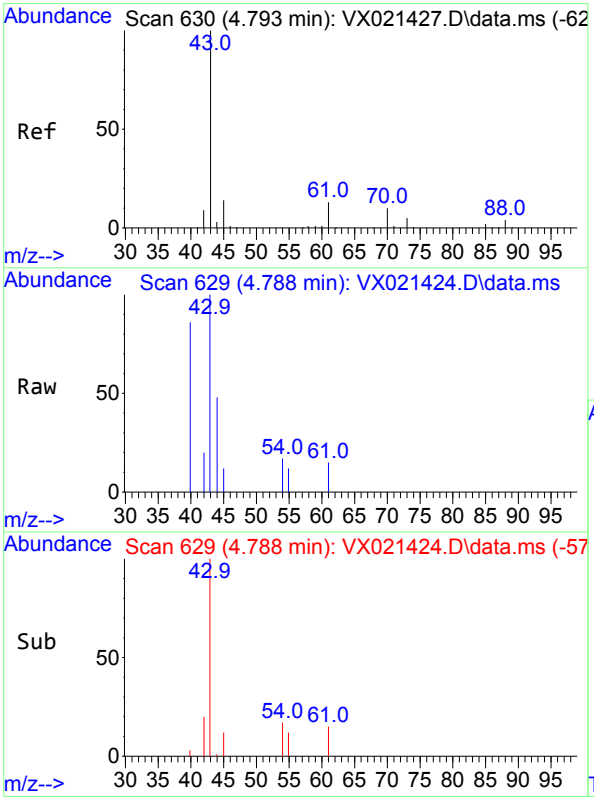


#36
1,1-Dichloropropene
Concen: 0.99 ug/l
RT: 5.758 min Scan# 794
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 75 Resp: 1493

Ion	Ratio	Lower	Upper
75	100		
110	19.3	18.1	54.4
77	21.5	25.3	37.9#

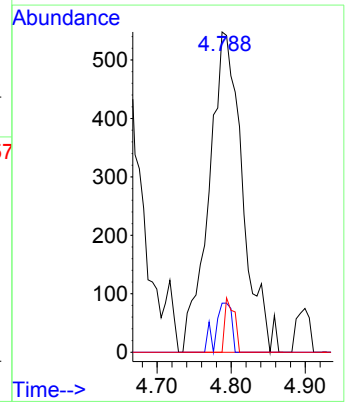




#37
Ethyl Acetate
Concen: 0.99 ug/l
RT: 4.788 min Scan# 629
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

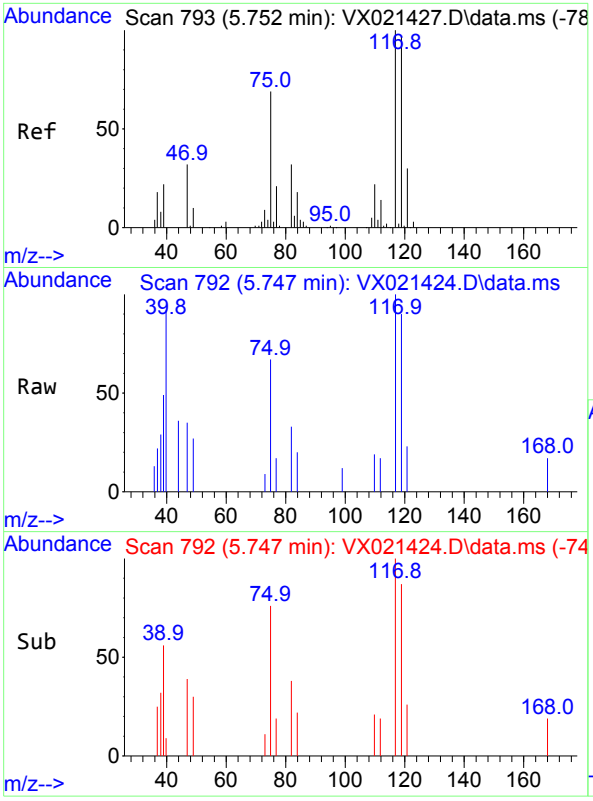
Tgt Ion: 43 Resp: 1726

Ion	Ratio	Lower	Upper
43	100		
61	7.2	12.8	19.2#
70	4.8	10.5	15.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

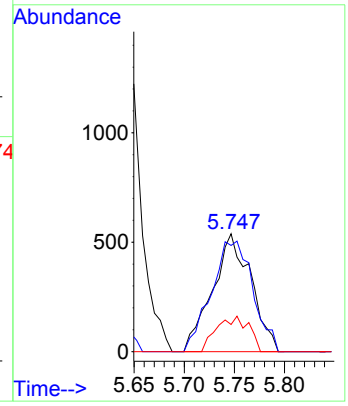
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

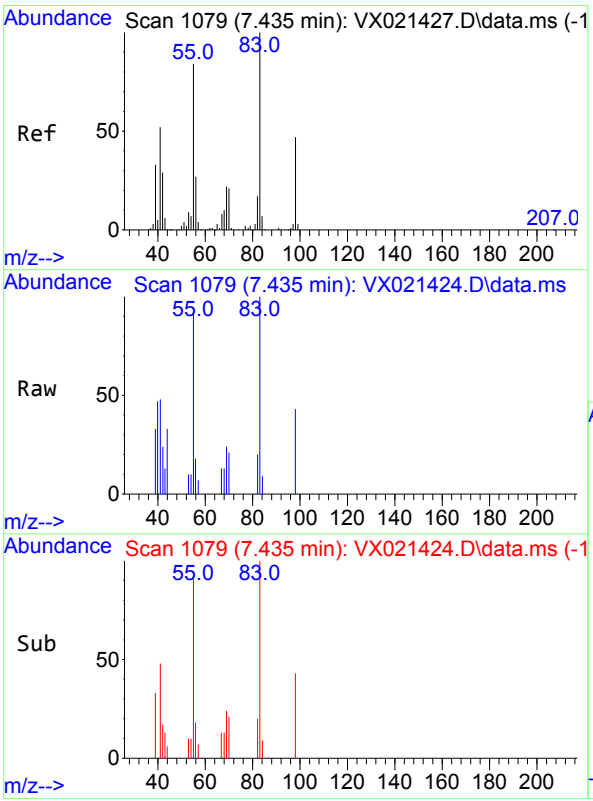


#38
Carbon Tetrachloride
Concen: 0.91 ug/l
RT: 5.747 min Scan# 792
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:117 Resp: 1443

Ion	Ratio	Lower	Upper
117	100		
119	90.0	76.2	114.2
121	23.0	24.8	37.2#

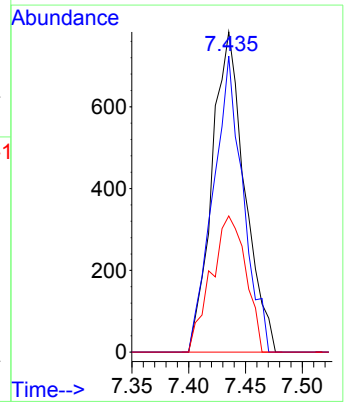




#39
Methylcyclohexane
Concen: 0.93 ug/l
RT: 7.435 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

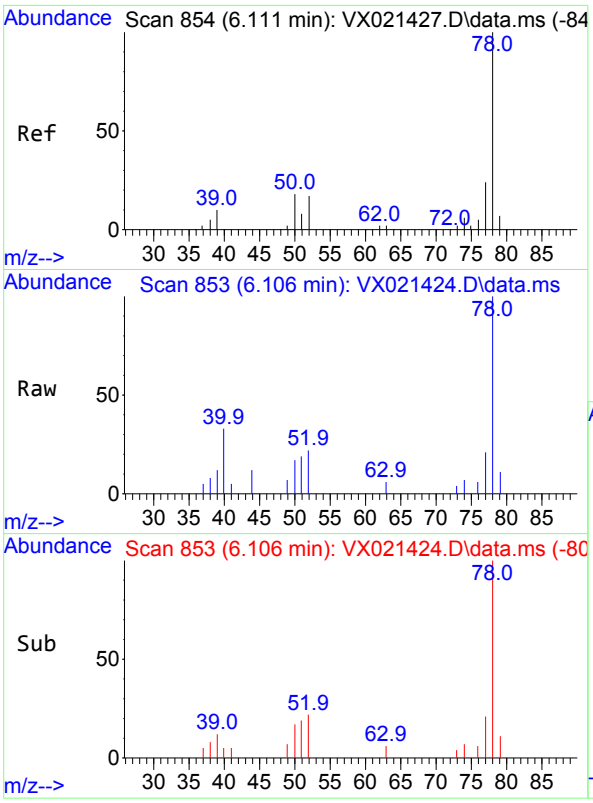
Tgt Ion: 83 Resp: 1568

Ion	Ratio	Lower	Upper
83	100		
55	92.5	58.9	88.3#
98	42.5	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

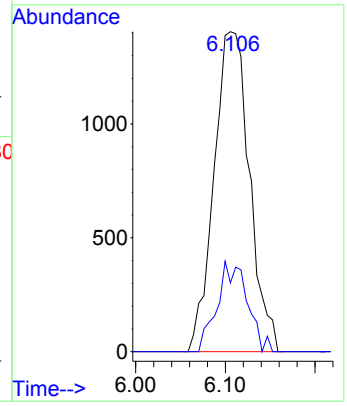
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

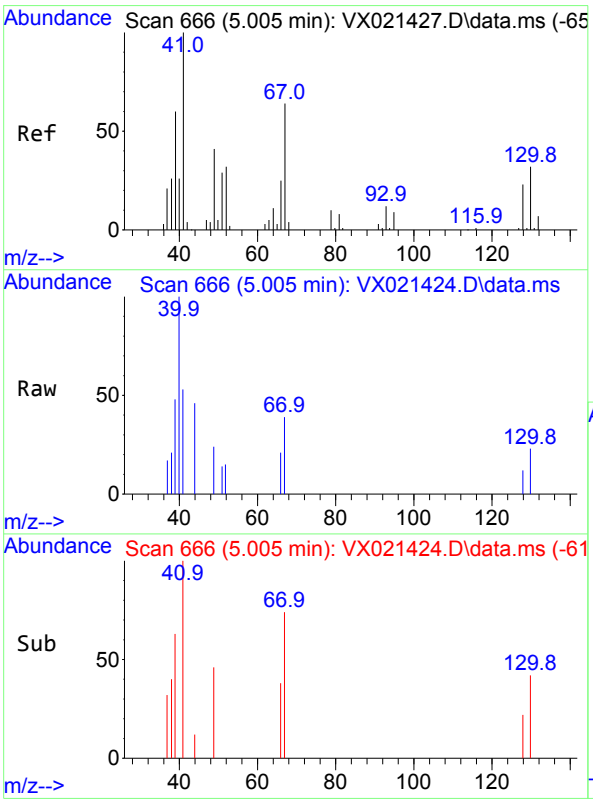


#40
Benzene
Concen: 0.92 ug/l
RT: 6.106 min Scan# 853
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 78 Resp: 3856

Ion	Ratio	Lower	Upper
78	100		
77	21.5	18.9	28.3

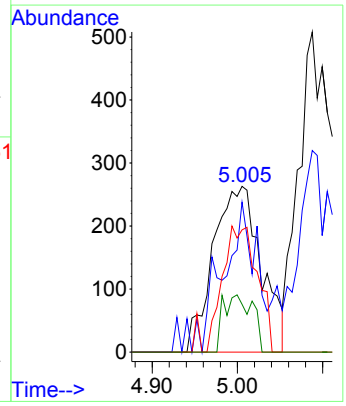




#41
Methacrylonitrile
Concen: 1.02 ug/l
RT: 5.005 min Scan# 666
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

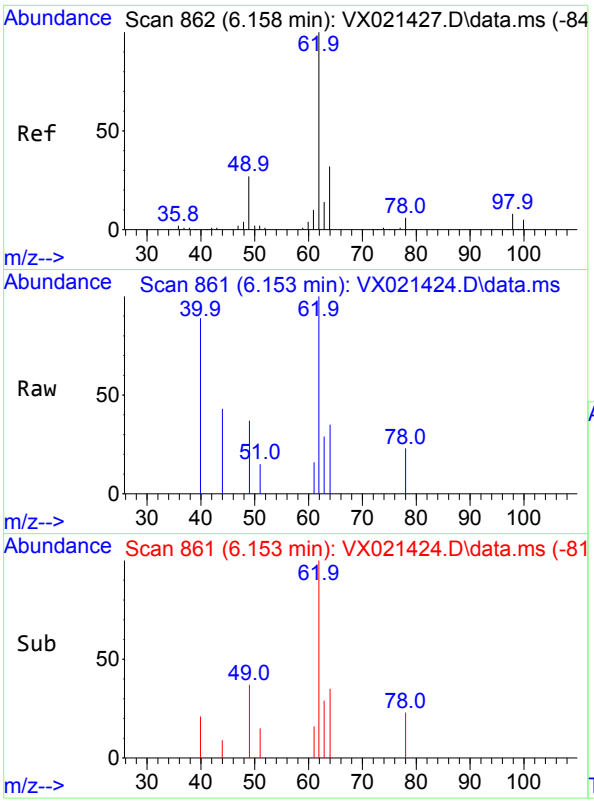
Tgt Ion: 41 Resp: 1034

Ion	Ratio	Lower	Upper
41	100		
39	45.6	42.5	63.7
67	55.0	65.0	97.6#
52	20.8	25.3	37.9#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

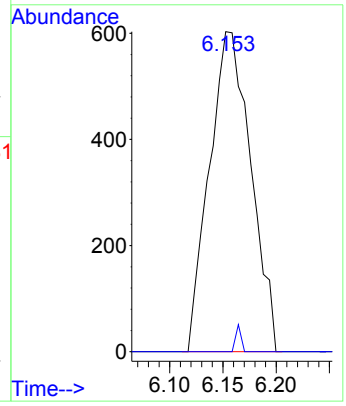
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

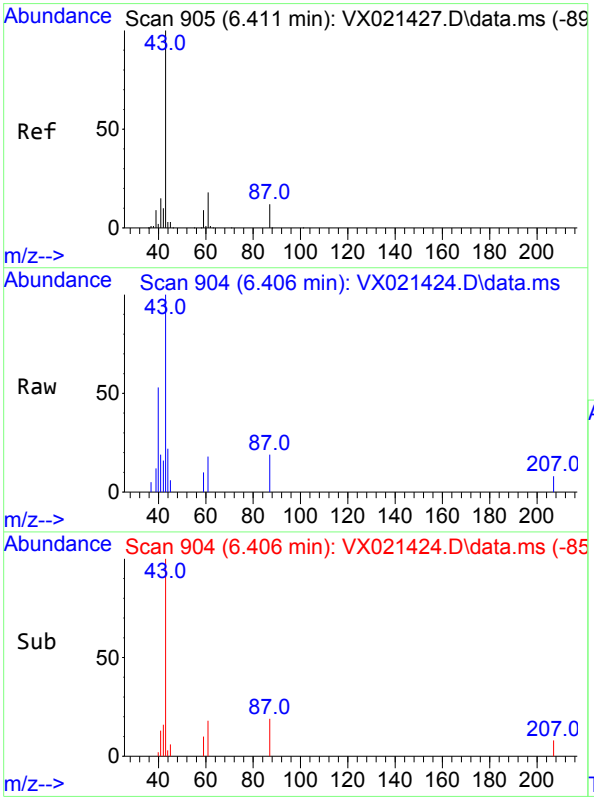


#42
1,2-Dichloroethane
Concen: 0.90 ug/l
RT: 6.153 min Scan# 861
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 62 Resp: 1633

Ion	Ratio	Lower	Upper
62	100		
98	1.1	0.0	20.2

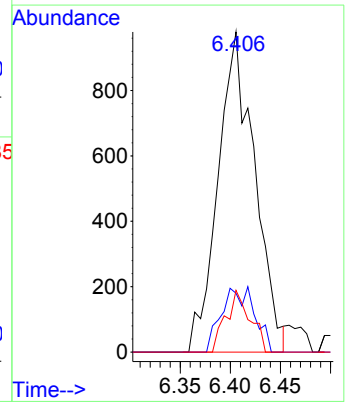




#43
Isopropyl Acetate
Concen: 0.87 ug/l
RT: 6.406 min Scan# 904
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

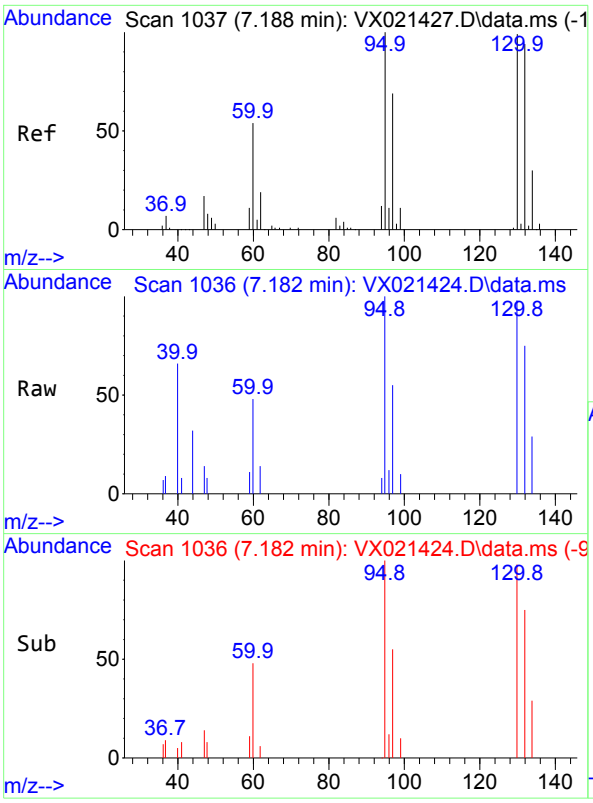
Tgt Ion: 43 Resp: 2489

Ion	Ratio	Lower	Upper
43	100		
61	18.3	18.2	27.4
87	12.7	12.5	18.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

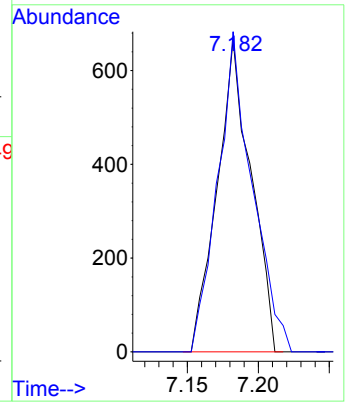
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

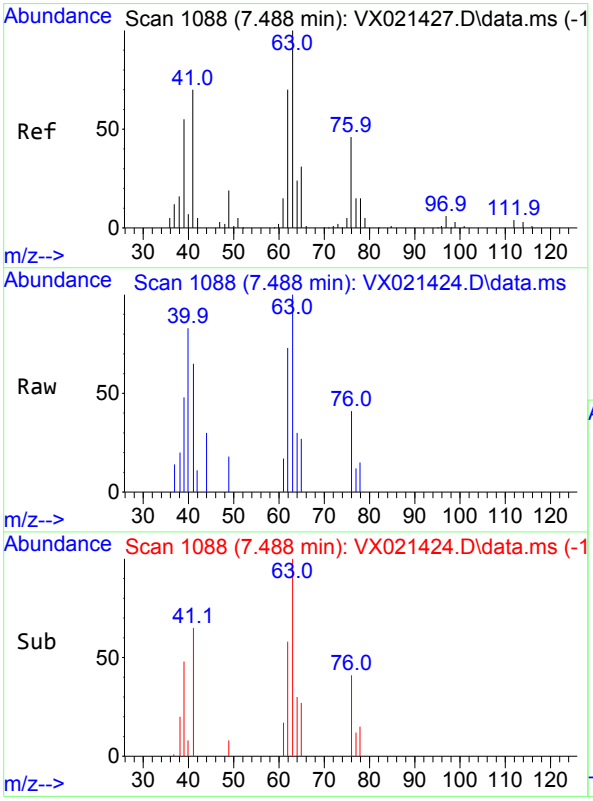


#44
Trichloroethene
Concen: 1.00 ug/l
RT: 7.182 min Scan# 1036
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:130 Resp: 1106

Ion	Ratio	Lower	Upper
130	100		
95	102.4	0.0	198.0

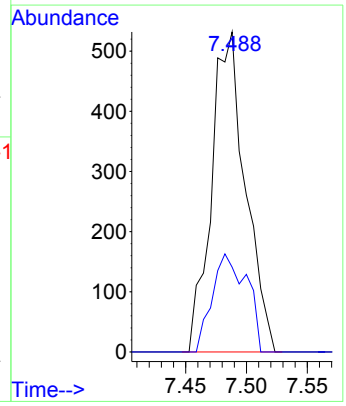




#45
1,2-Dichloropropane
Concen: 0.91 ug/l
RT: 7.488 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

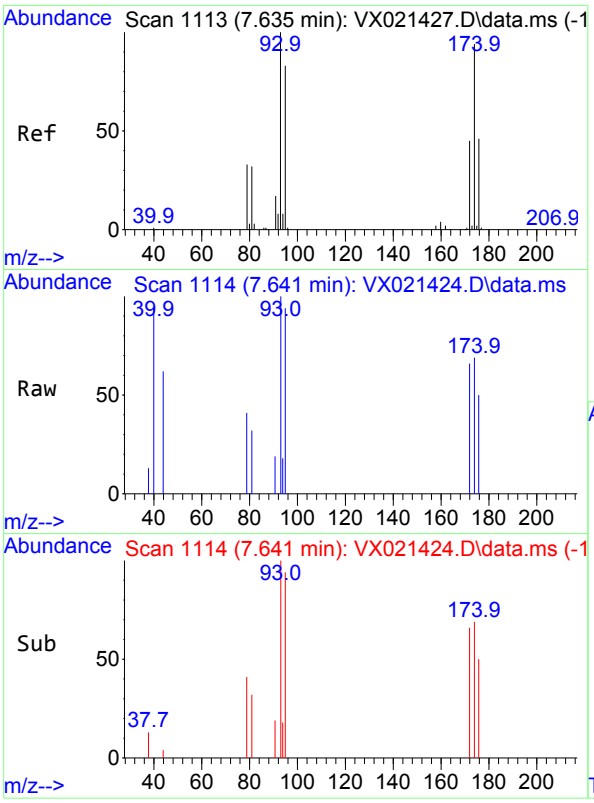
Tgt Ion: 63 Resp: 1031

Ion	Ratio	Lower	Upper
63	100		
65	26.5	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

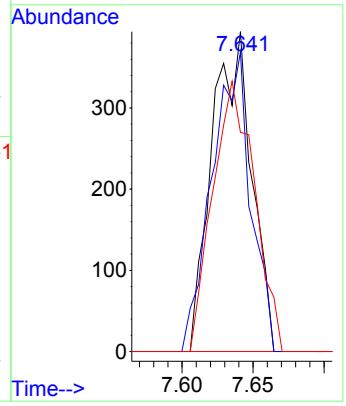
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

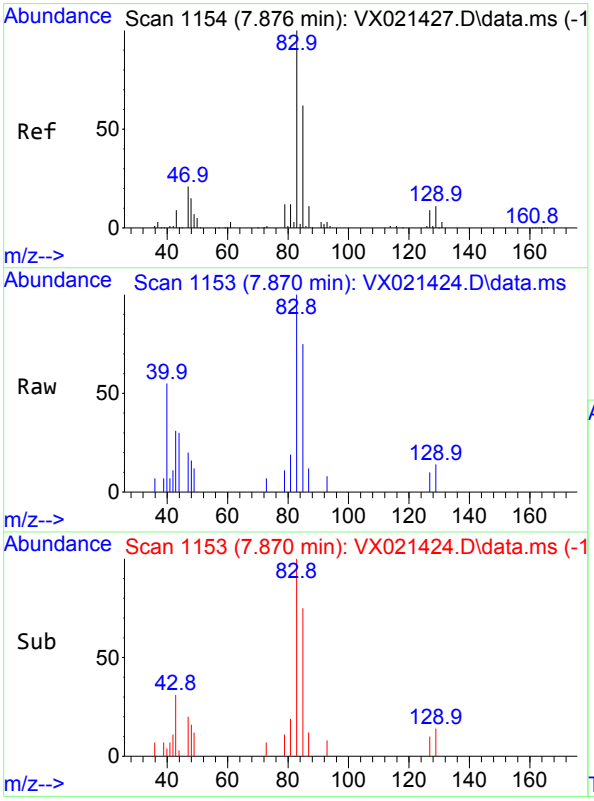


#46
Dibromomethane
Concen: 0.93 ug/l
RT: 7.641 min Scan# 1114
Delta R.T. 0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 93 Resp: 766

Ion	Ratio	Lower	Upper
93	100		
95	91.1	66.8	100.2
174	89.0	83.1	124.7

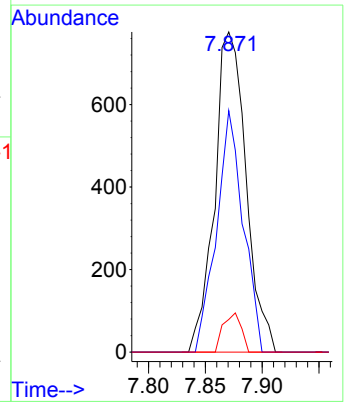




#47
Bromodichloromethane
Concen: 0.90 ug/l
RT: 7.870 min Scan# 1153
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

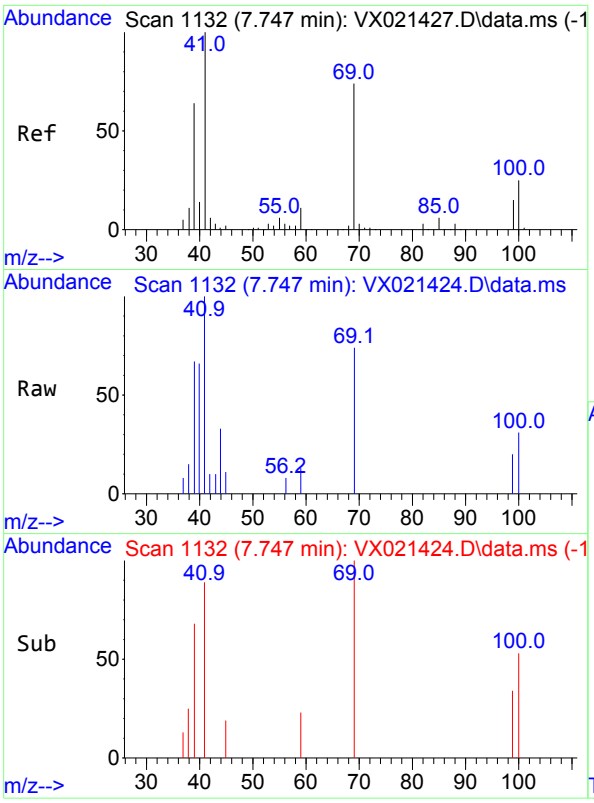
Tgt Ion: 83 Resp: 1494

Ion	Ratio	Lower	Upper
83	100		
85	75.4	51.4	77.0
127	10.2	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

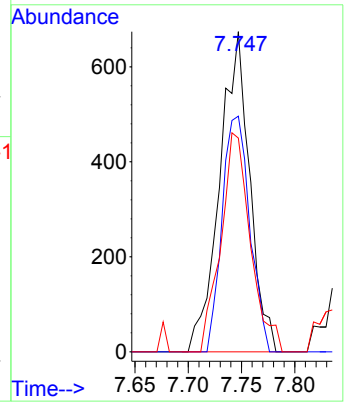
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

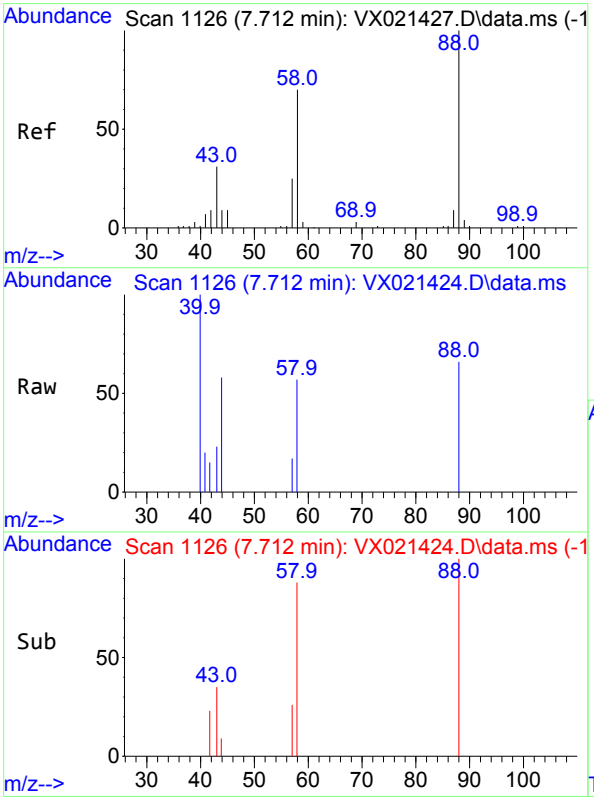


#48
Methyl methacrylate
Concen: 0.86 ug/l
RT: 7.747 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 41 Resp: 1318

Ion	Ratio	Lower	Upper
41	100		
69	67.9	76.0	114.0#
39	67.7	44.6	67.0#

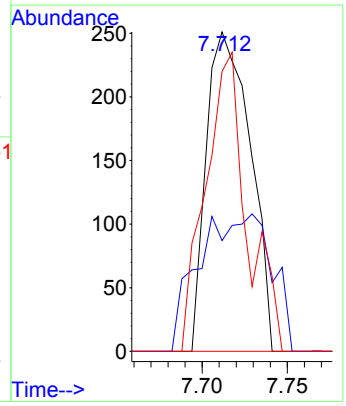




#49
1,4-Dioxane
Concen: 15.86 ug/l
RT: 7.712 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

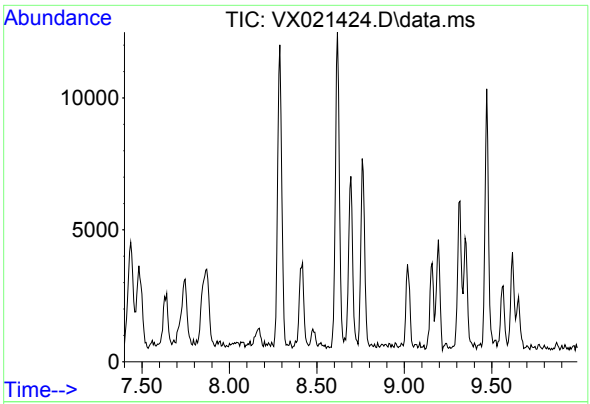
Tgt Ion: 88 Resp: 451

Ion	Ratio	Lower	Upper
88	100		
43	70.7	23.2	34.8#
58	88.2	55.0	82.4#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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3/25/2021 9:49:16 AM

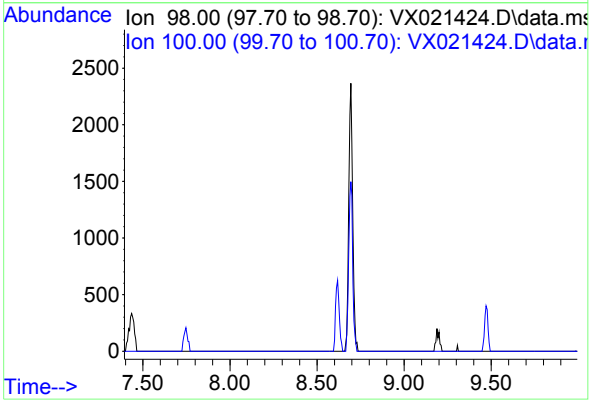


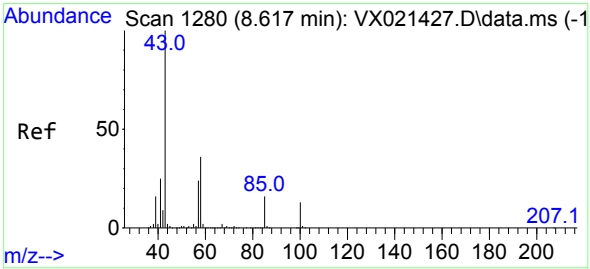
#50
Toluene-d8
Concen: 0.00 ug/l
Expected RT: 8.69 min

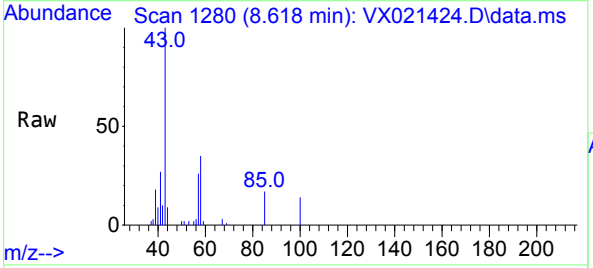
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

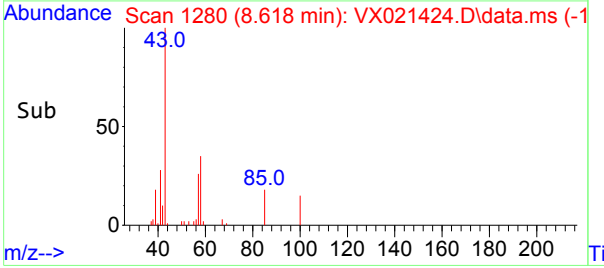
Tgt Ion: 98

Sig	Exp Ratio
98	100
100	64.9





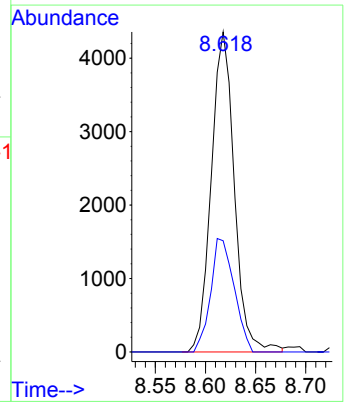




#51
4-Methyl-2-Pentanone
Concen: 4.12 ug/l
RT: 8.618 min Scan# 1280
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

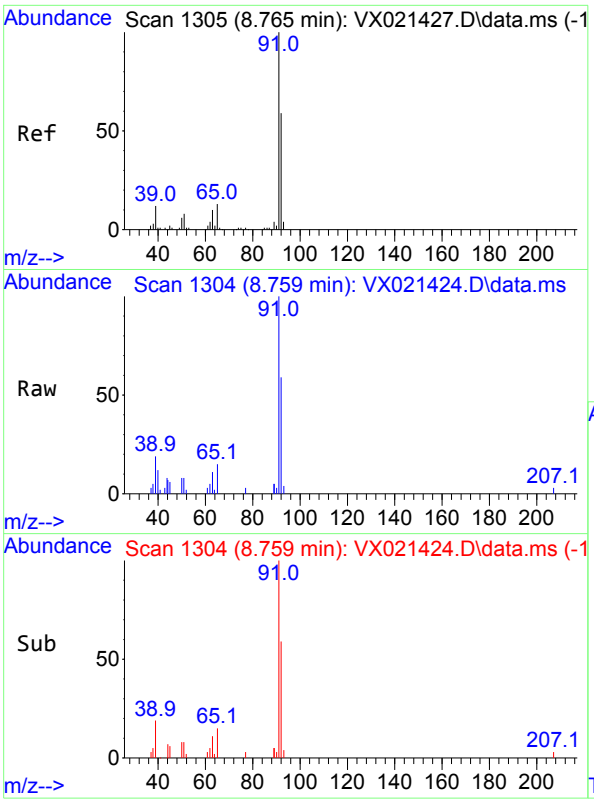
Tgt Ion: 43 Resp: 6965

Ion	Ratio	Lower	Upper
43	100		
58	36.1	35.4	53.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

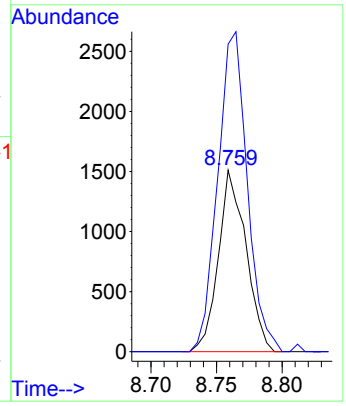
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

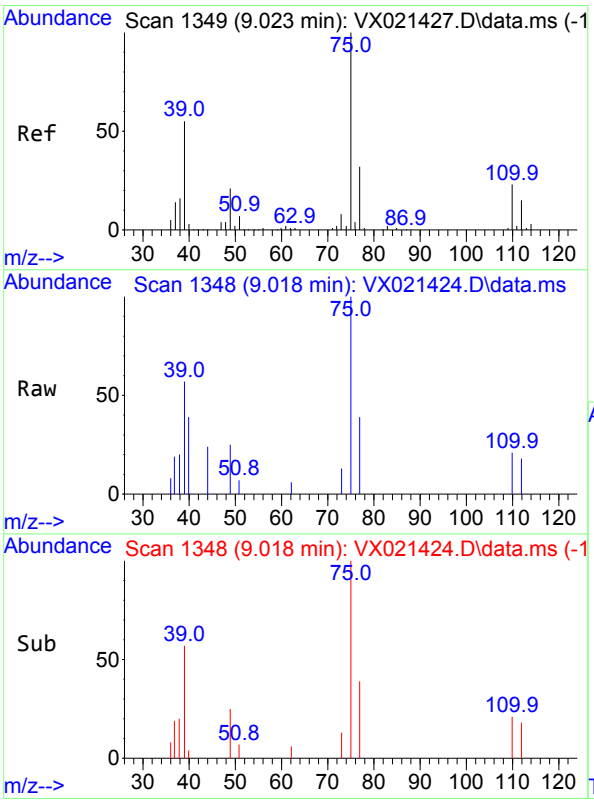


#52
Toluene
Concen: 0.85 ug/l
RT: 8.759 min Scan# 1304
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 92 Resp: 2213

Ion	Ratio	Lower	Upper
92	100		
91	188.4	137.1	205.7

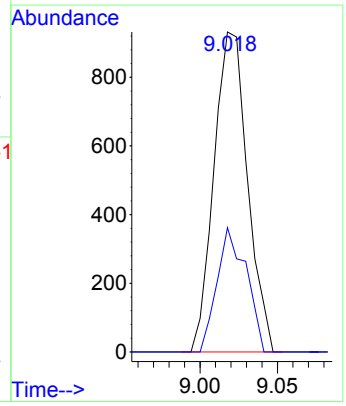




#53
t-1,3-Dichloropropene
Concen: 0.80 ug/l
RT: 9.018 min Scan# 1348
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

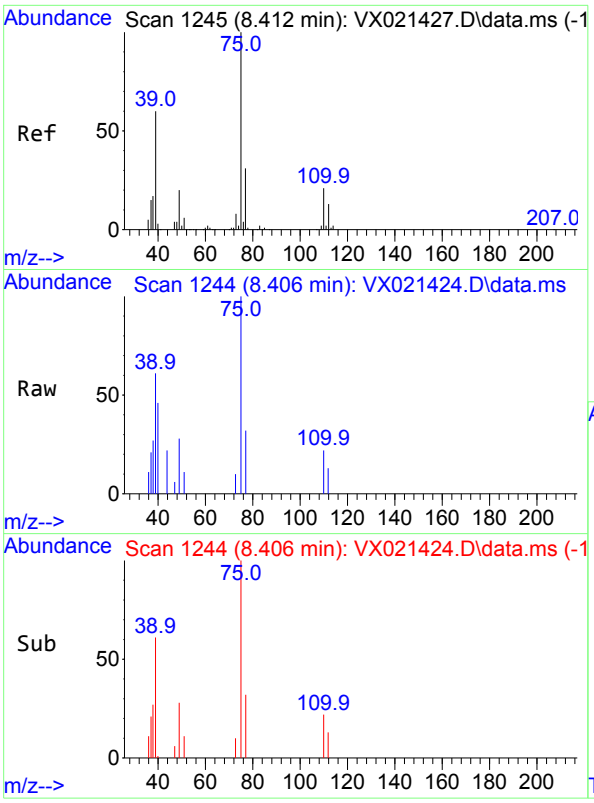
Tgt Ion: 75 Resp: 1404

Ion	Ratio	Lower	Upper
75	100		
77	38.8	24.9	37.3#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

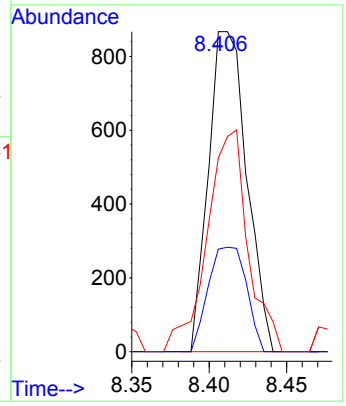
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

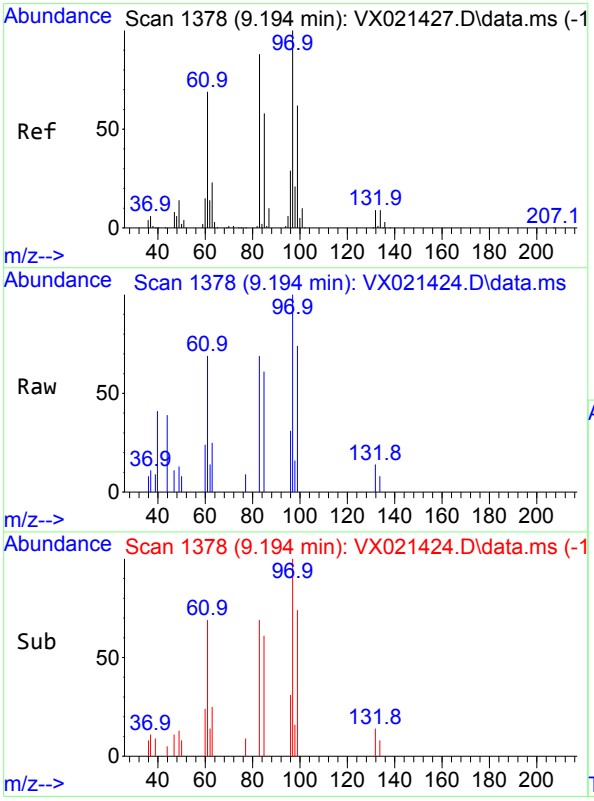


#54
cis-1,3-Dichloropropene
Concen: 0.80 ug/l
RT: 8.406 min Scan# 1244
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 75 Resp: 1491

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.7	38.5
39	60.6	35.1	52.7#

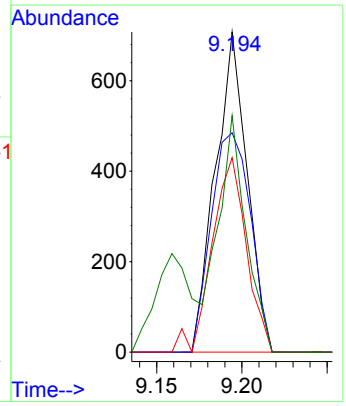




#55
1,1,2-Trichloroethane
Concen: 0.86 ug/l
RT: 9.194 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

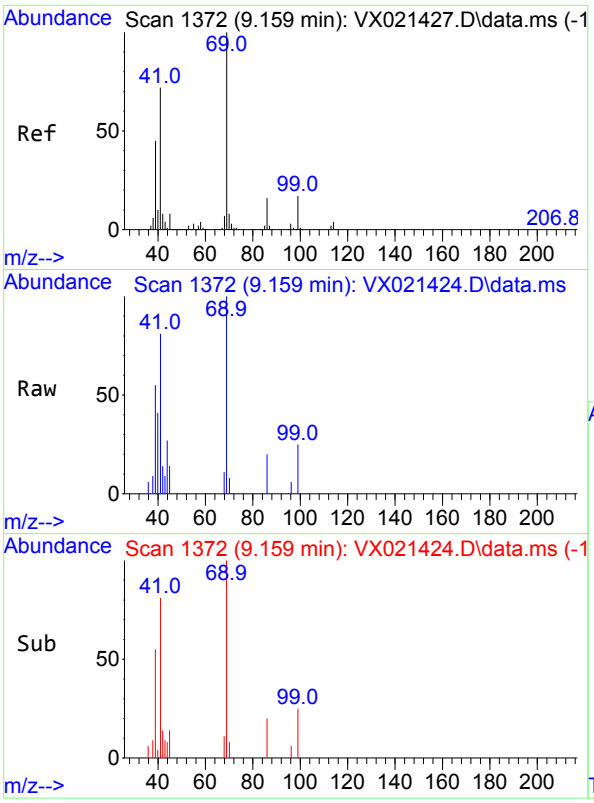
Tgt Ion: 97 Resp: 920

Ion	Ratio	Lower	Upper
97	100		
83	68.5	69.3	103.9#
85	60.7	44.3	66.5
99	73.9	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

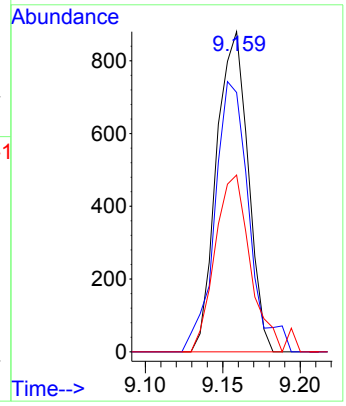
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

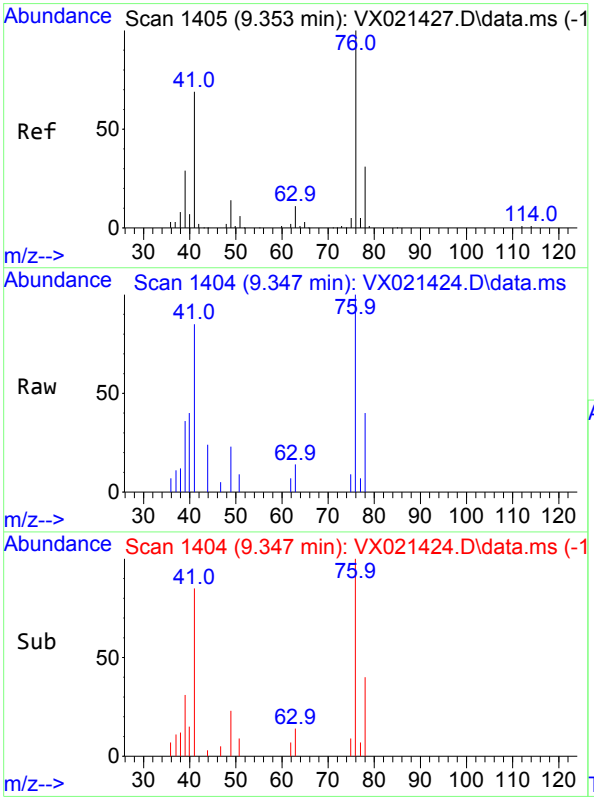


#56
Ethyl methacrylate
Concen: 0.73 ug/l
RT: 9.159 min Scan# 1372
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 69 Resp: 1246

Ion	Ratio	Lower	Upper
69	100		
41	91.1	46.8	70.2#
39	63.2	24.7	37.1#

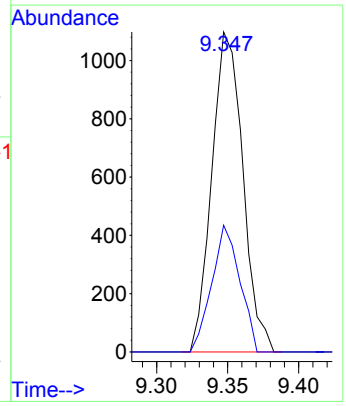




#57
1,3-Dichloropropane
Concen: 0.90 ug/l
RT: 9.347 min Scan# 1404
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

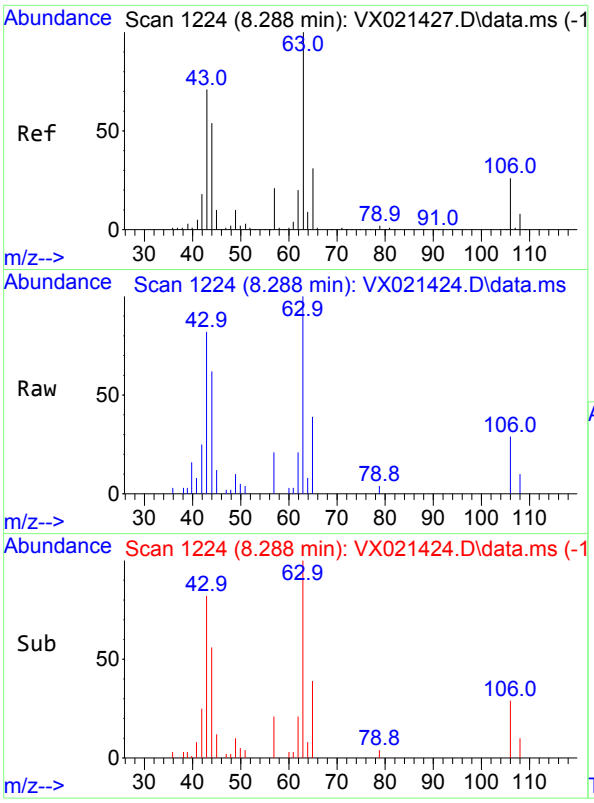
Tgt Ion: 76 Resp: 1667

Ion	Ratio	Lower	Upper
76	100		
78	35.8	26.2	39.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

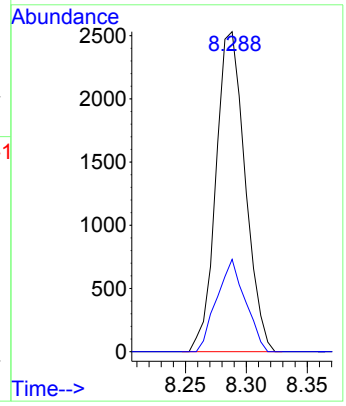
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

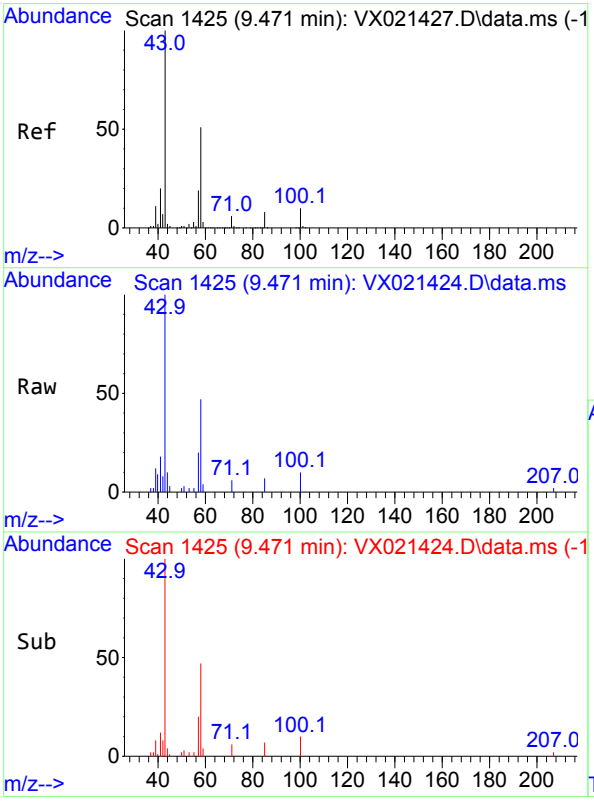


#58
2-Chloroethyl Vinyl ether
Concen: 4.50 ug/l
RT: 8.288 min Scan# 1224
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 63 Resp: 4226

Ion	Ratio	Lower	Upper
63	100		
106	28.2	23.5	35.3

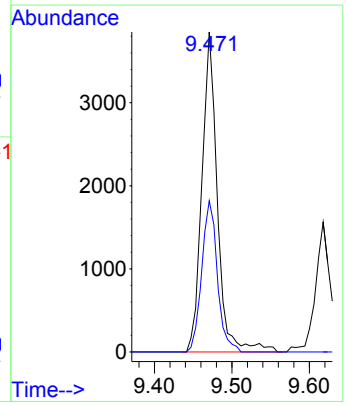




#59
2-Hexanone
Concen: 4.22 ug/l
RT: 9.471 min Scan# 1425
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

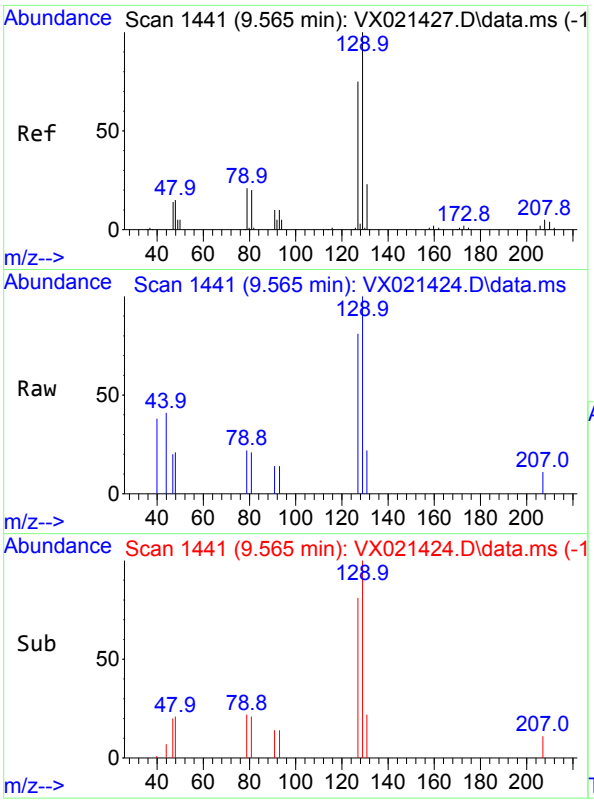
Tgt Ion: 43 Resp: 5338

Ion	Ratio	Lower	Upper
43	100		
58	47.8	30.9	92.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

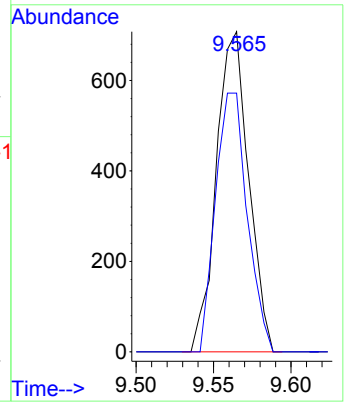
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

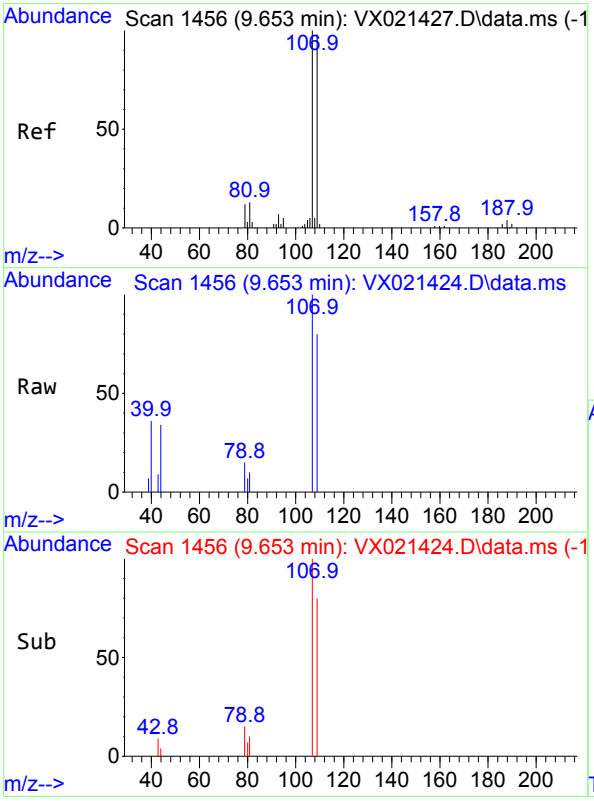


#60
Dibromochloromethane
Concen: 0.85 ug/l
RT: 9.565 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:129 Resp: 1026

Ion	Ratio	Lower	Upper
129	100		
127	79.3	38.4	115.2

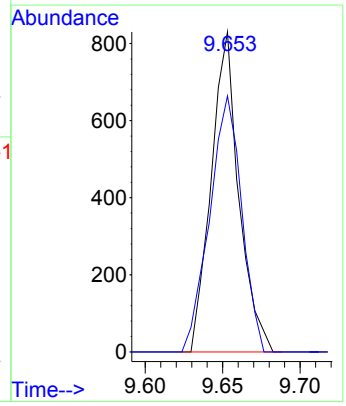




#61
1,2-Dibromoethane
Concen: 0.88 ug/l
RT: 9.653 min Scan# 1456
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

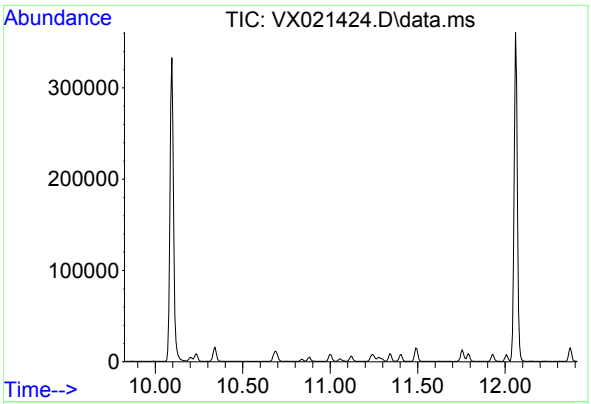
Tgt Ion:107 Resp: 1032

Ion	Ratio	Lower	Upper
107	100		
109	92.3	75.8	113.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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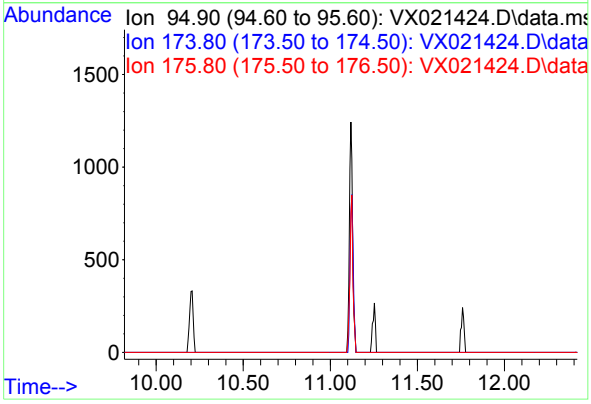


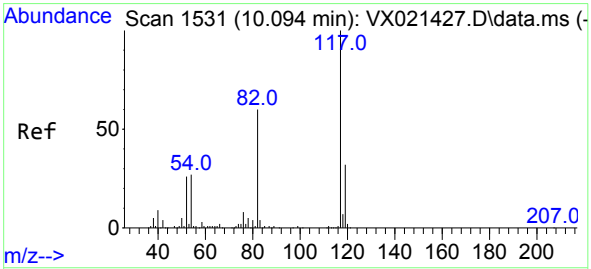
#62
4-Bromofluorobenzene
Concen: 0.00 ug/l
Expected RT: 11.12 min

Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 95

Sig	Exp Ratio
95	100
174	77.3
176	77.9

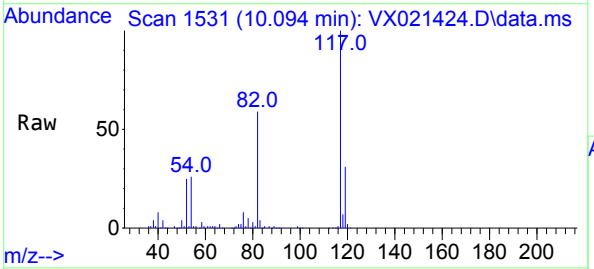


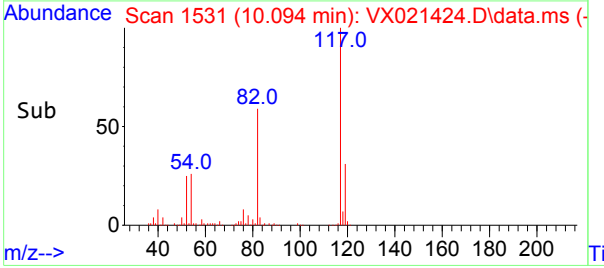


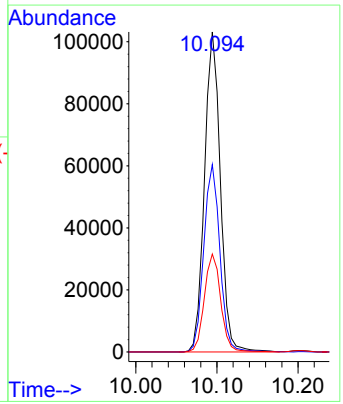
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:117 Resp: 139670

Ion	Ratio	Lower	Upper
117	100		
82	58.5	47.4	71.2
119	30.6	26.6	39.8

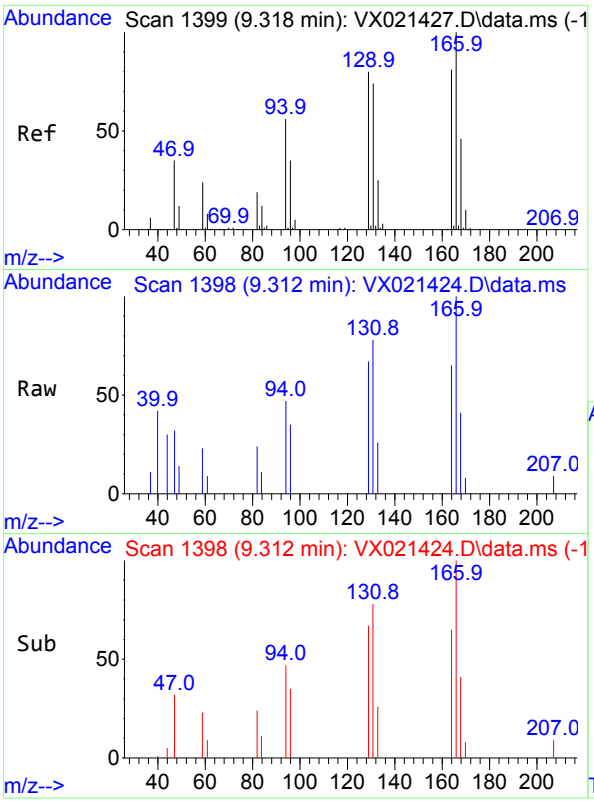






Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

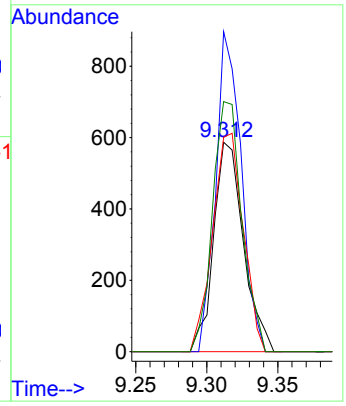
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3/25/2021 9:49:16 AM

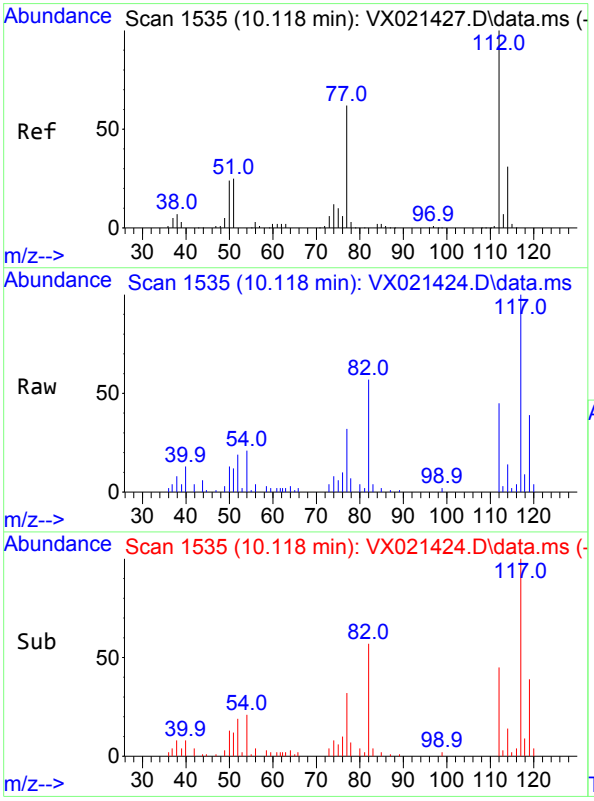


#64
Tetrachloroethene
Concen: 0.83 ug/l
RT: 9.312 min Scan# 1398
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:164 Resp: 858

Ion	Ratio	Lower	Upper
164	100		
166	152.8	103.4	155.2
129	102.4	70.8	106.2
131	119.4	72.5	108.7#

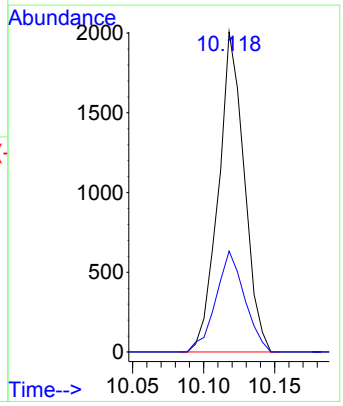




#65
Chlorobenzene
Concen: 0.88 ug/l
RT: 10.118 min Scan# 1535
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

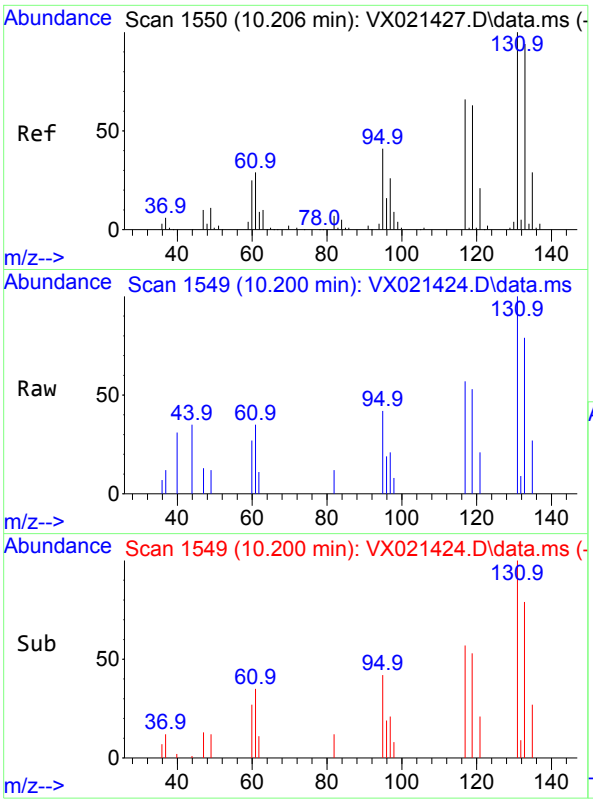
Tgt Ion:112 Resp: 2538

Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

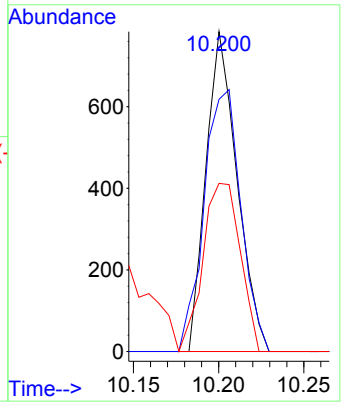
Manual Integrations APPROVED
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3/25/2021 9:49:16 AM

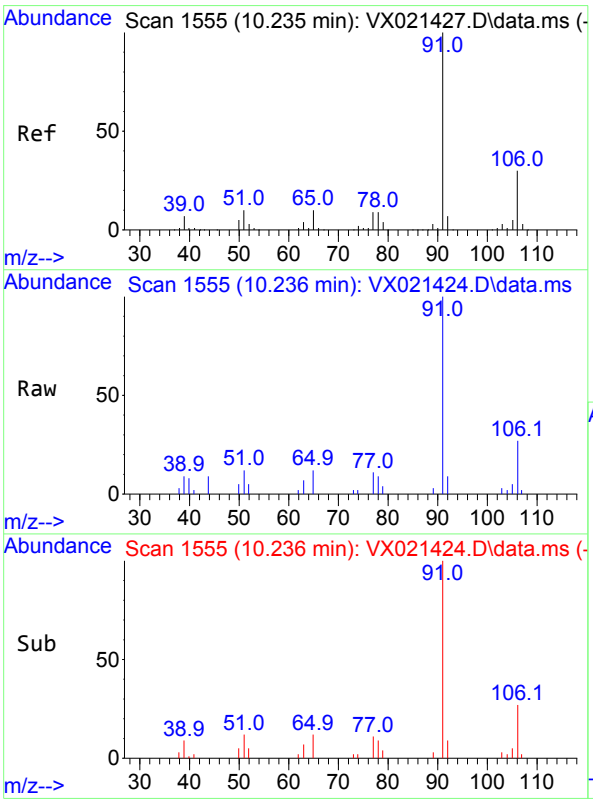


#66
1,1,1,2-Tetrachloroethane
Concen: 0.93 ug/l
RT: 10.200 min Scan# 1549
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:131 Resp: 994

Ion	Ratio	Lower	Upper
131	100		
133	97.3	47.7	143.1
119	0.0	32.1	96.5#

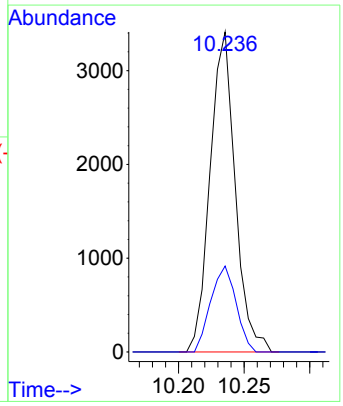




#67
Ethyl Benzene
Concen: 0.86 ug/l
RT: 10.236 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

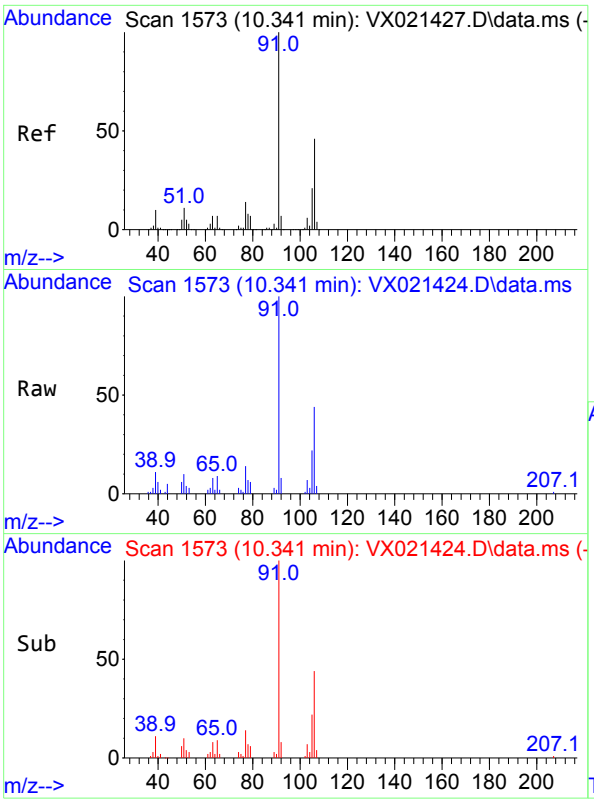
Tgt Ion: 91 Resp: 4548

Ion	Ratio	Lower	Upper
91	100		
106	26.9	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

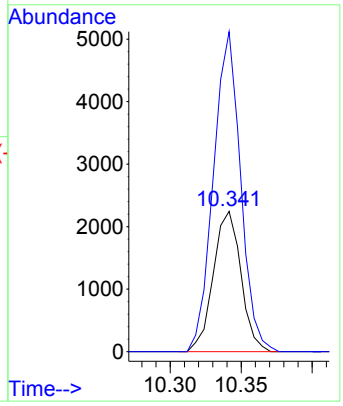
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

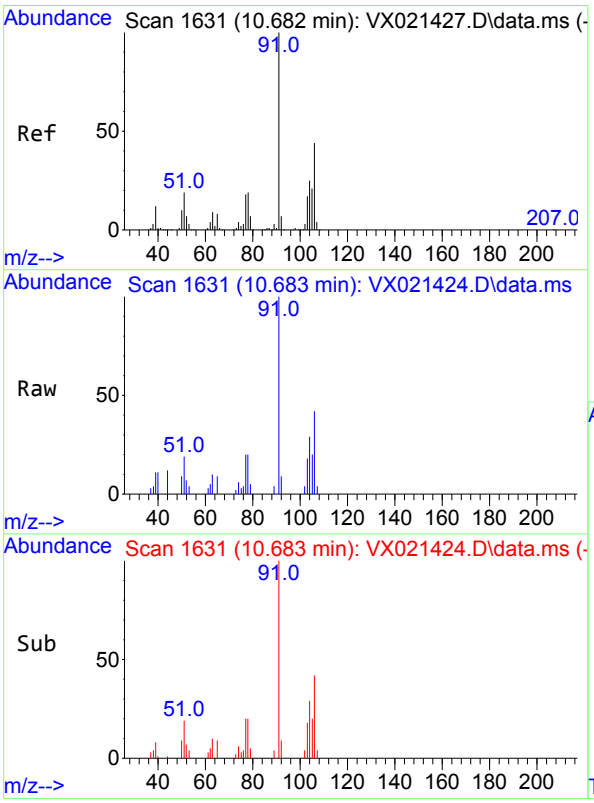


#68
m/p-Xylenes
Concen: 1.60 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:106 Resp: 3034

Ion	Ratio	Lower	Upper
106	100		
91	224.5	162.8	244.2

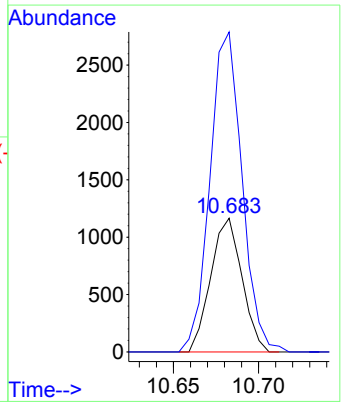




#69
o-Xylene
Concen: 0.81 ug/l
RT: 10.683 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

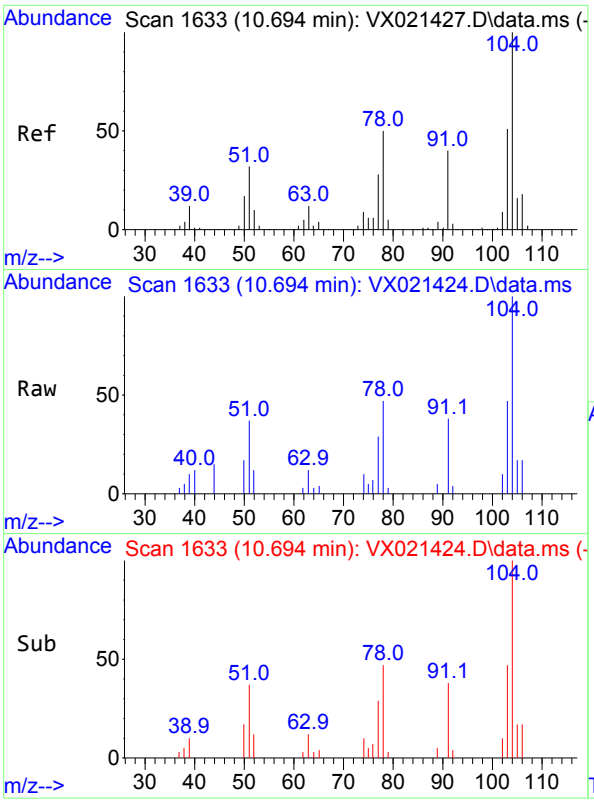
Tgt Ion:106 Resp: 1485

Ion	Ratio	Lower	Upper
106	100		
91	245.8	108.1	324.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

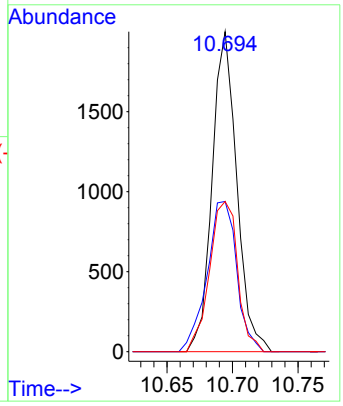
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

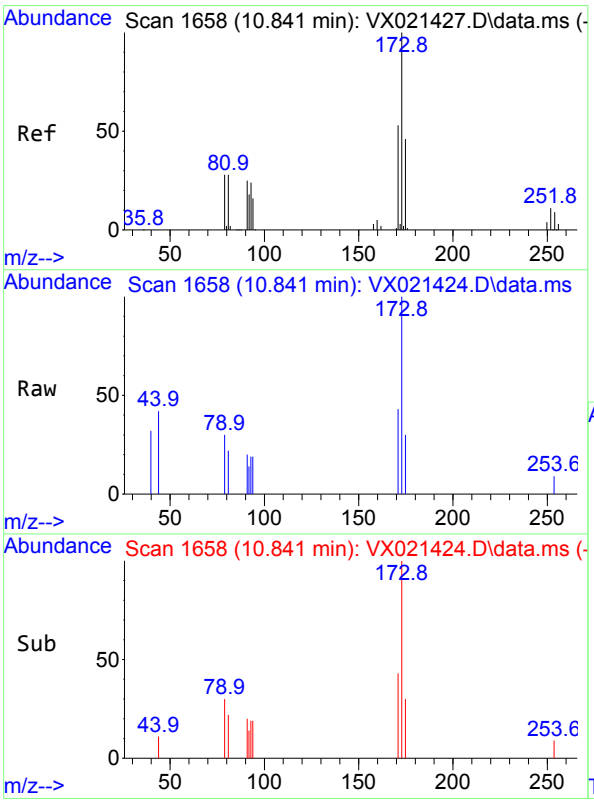


#70
Styrene
Concen: 0.84 ug/l
RT: 10.694 min Scan# 1633
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:104 Resp: 2611

Ion	Ratio	Lower	Upper
104	100		
78	56.6	40.0	60.0
103	53.6	43.4	65.0

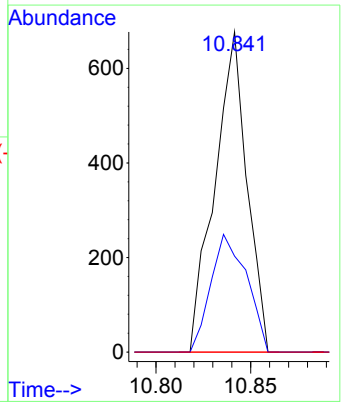




#71
Bromoform
Concen: 0.93 ug/l
RT: 10.841 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

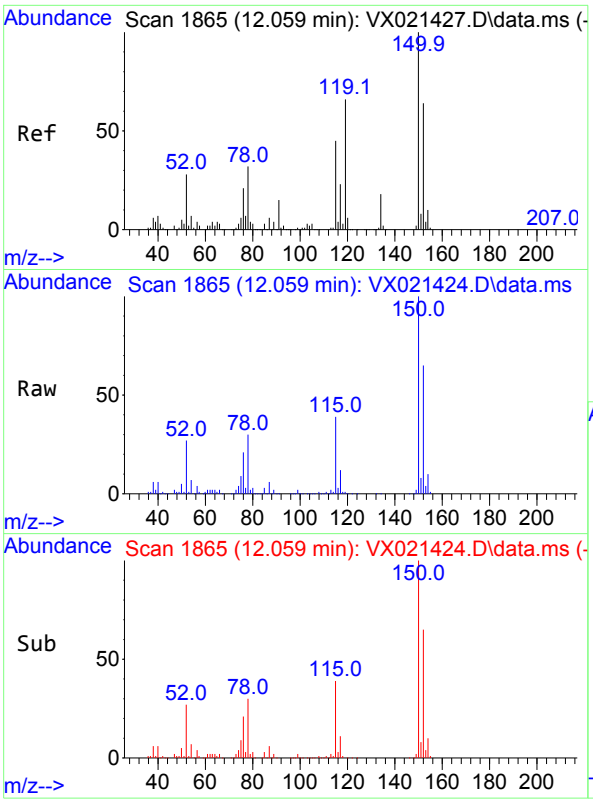
Tgt Ion:173 Resp: 802

Ion	Ratio	Lower	Upper
173	100		
175	41.0	23.9	71.8
254	0.0	0.1	0.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

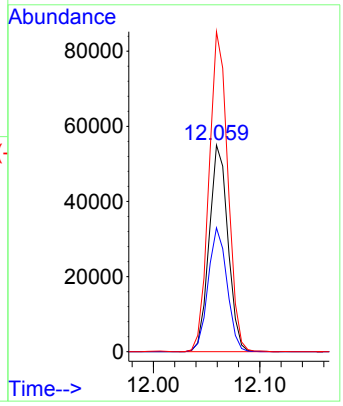
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

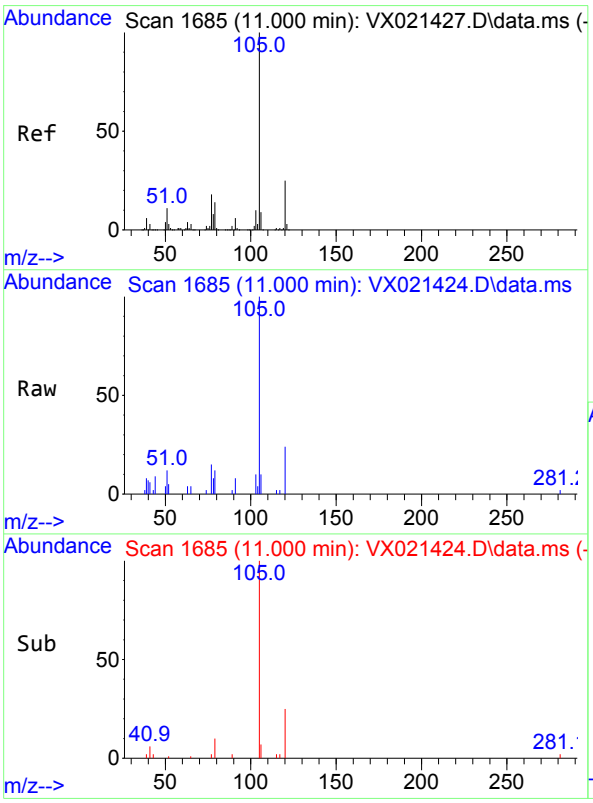


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:152 Resp: 67239

Ion	Ratio	Lower	Upper
152	100		
115	60.4	41.1	123.3
150	155.5	0.0	349.0

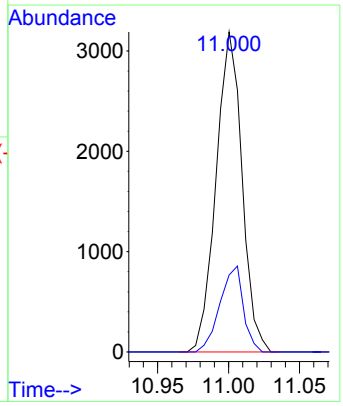




#73
Isopropylbenzene
Concen: 0.81 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

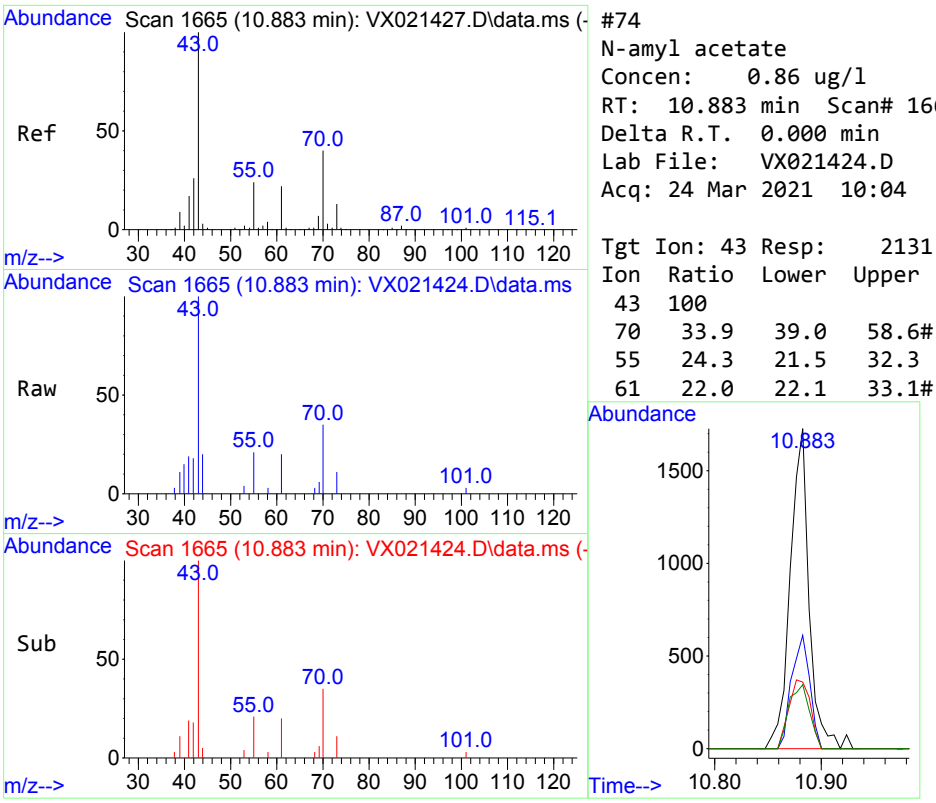
Tgt Ion:105 Resp: 4046

Ion	Ratio	Lower	Upper
105	100		
120	24.2	13.2	39.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

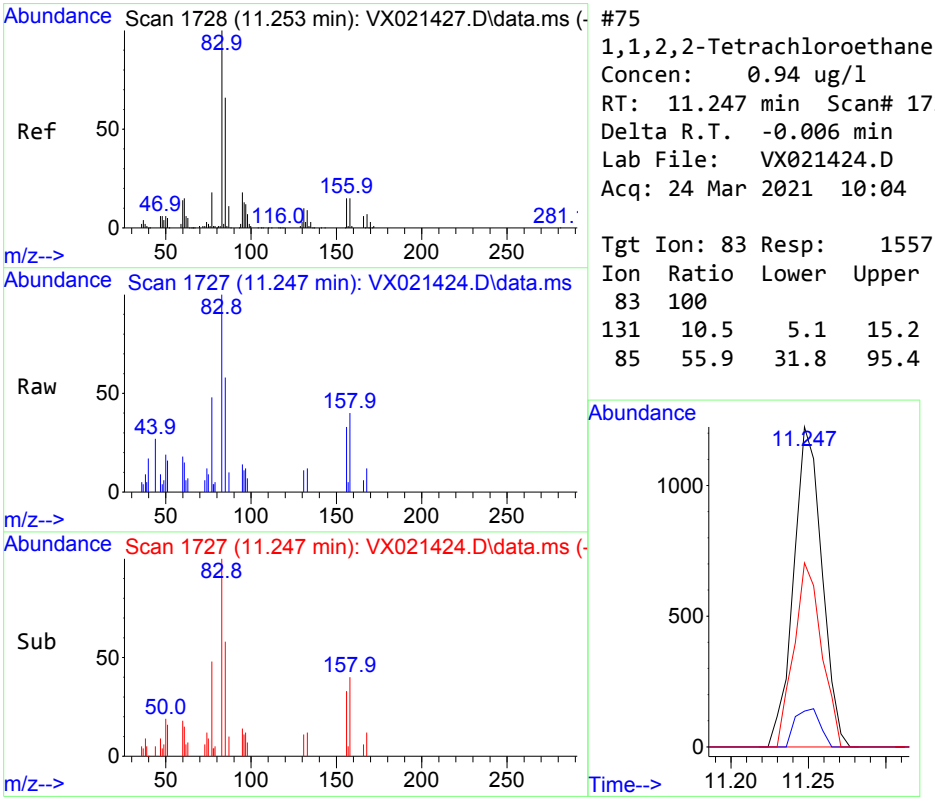
Manual Integrations APPROVED
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3/25/2021 9:49:16 AM



#74
N-amyl acetate
Concen: 0.86 ug/l
RT: 10.883 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 43 Resp: 2131

Ion	Ratio	Lower	Upper
43	100		
70	33.9	39.0	58.6#
55	24.3	21.5	32.3
61	22.0	22.1	33.1#



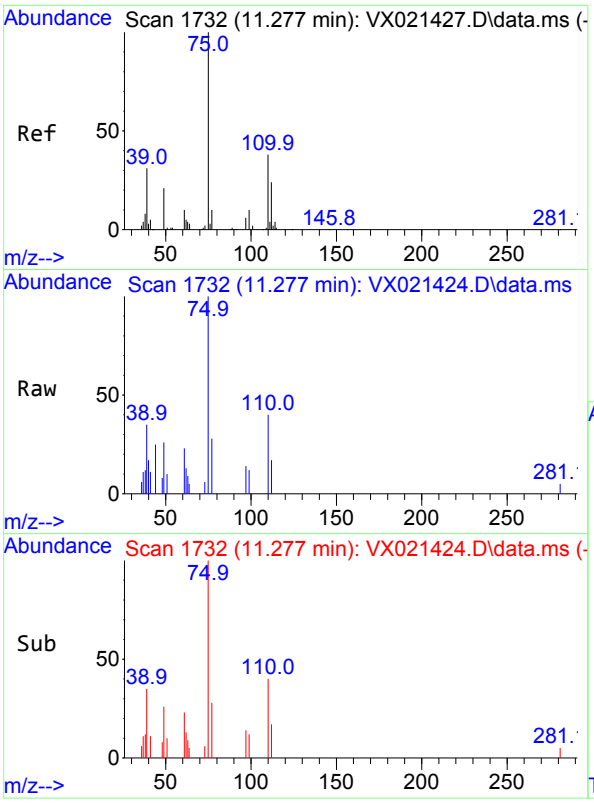
#75
1,1,2,2-Tetrachloroethane
Concen: 0.94 ug/l
RT: 11.247 min Scan# 1727
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 83 Resp: 1557

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.2
85	55.9	31.8	95.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

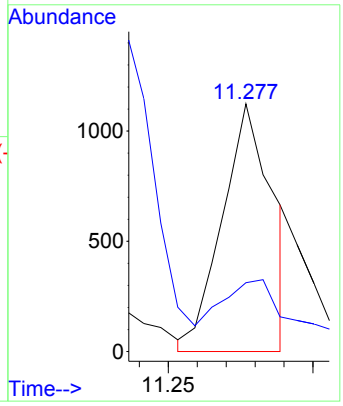
Manual Integrations APPROVED
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3/25/2021 9:49:16 AM

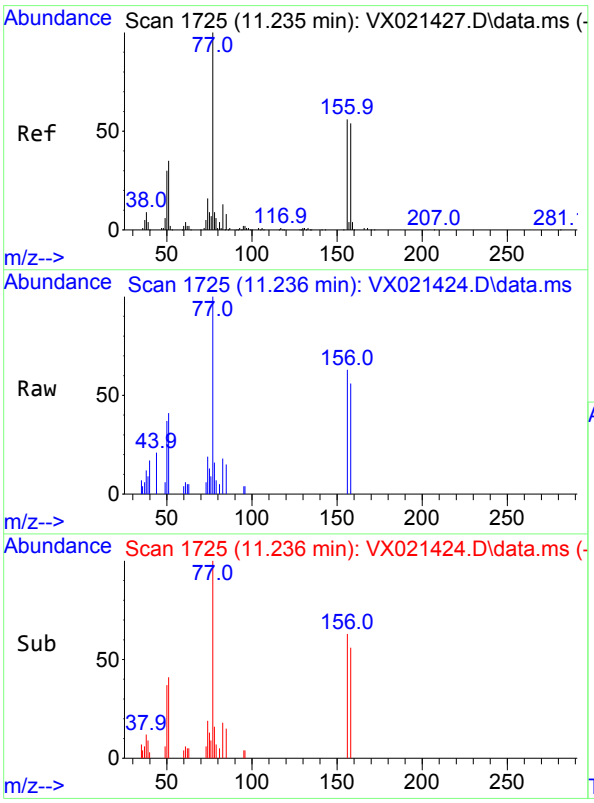


#76
1,2,3-Trichloropropane
Concen: 0.85 ug/l m
RT: 11.277 min Scan# 1732
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 75 Resp: 1356

Ion	Ratio	Lower	Upper
75	100		
77	42.0	19.1	57.5

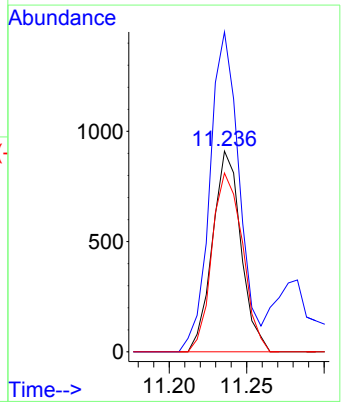




#77
Bromobenzene
Concen: 0.98 ug/l
RT: 11.236 min Scan# 1725
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

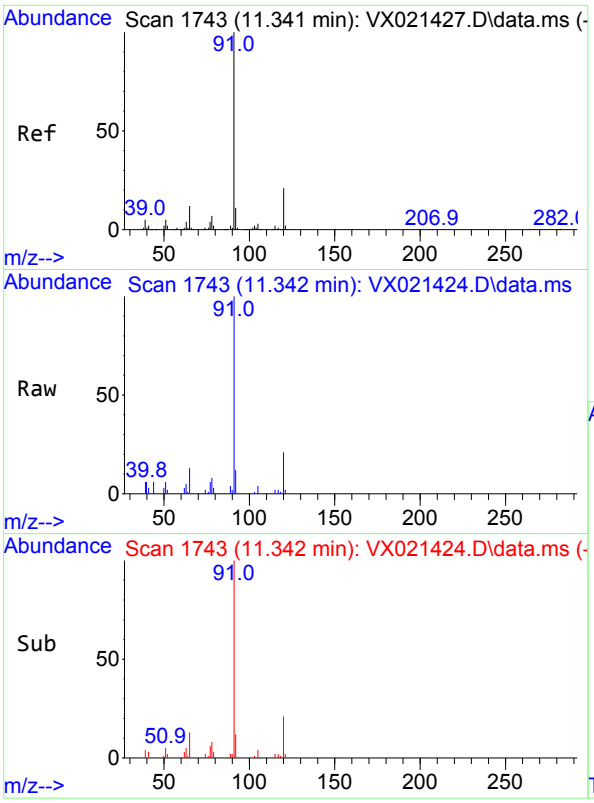
Tgt Ion:156 Resp: 1165

Ion	Ratio	Lower	Upper
156	100		
77	164.8	82.8	248.6
158	95.5	49.1	147.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

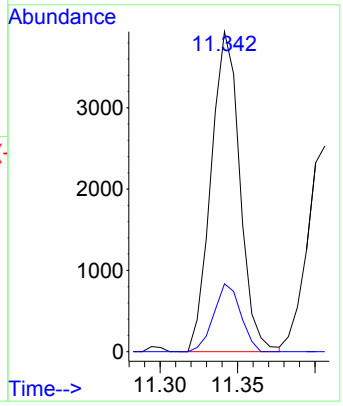
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

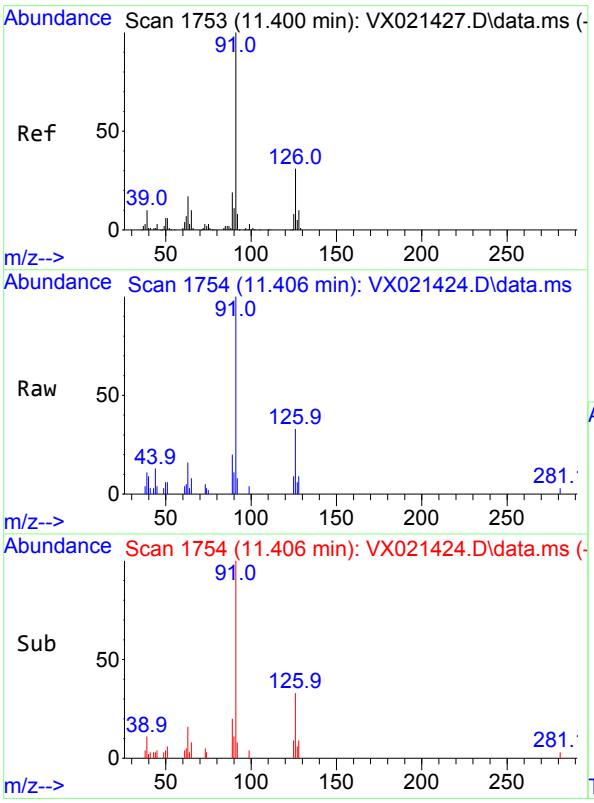


#78
n-propylbenzene
Concen: 0.88 ug/l
RT: 11.342 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 91 Resp: 5082

Ion	Ratio	Lower	Upper
91	100		
120	19.8	11.5	34.5

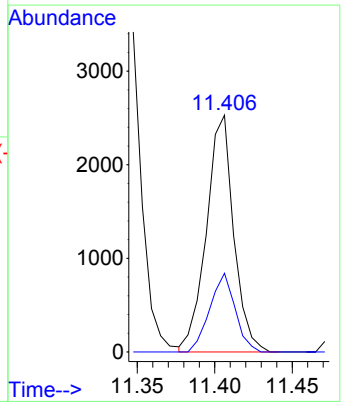




#79
2-Chlorotoluene
Concen: 0.88 ug/l
RT: 11.406 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

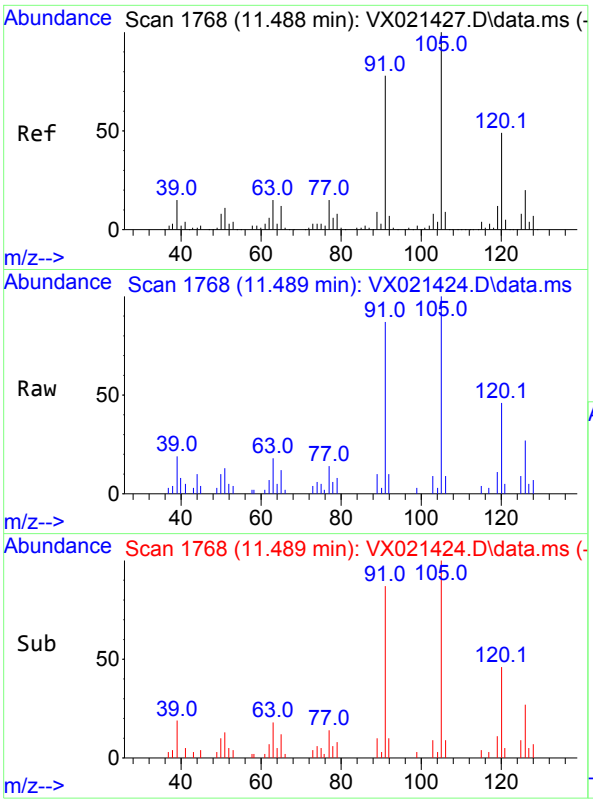
Tgt Ion: 91 Resp: 3097

Ion	Ratio	Lower	Upper
91	100		
126	30.9	16.6	49.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

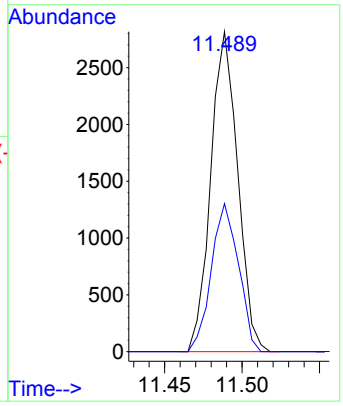
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:16 AM

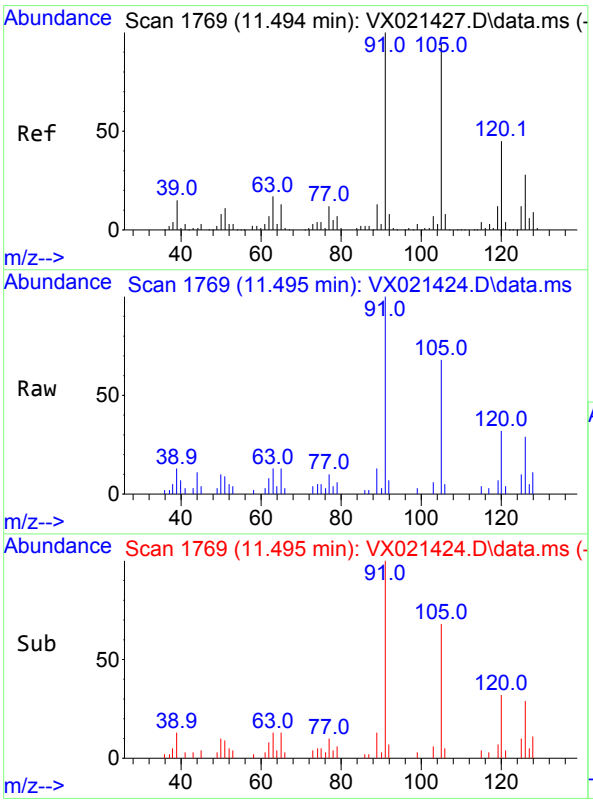


#80
1,3,5-Trimethylbenzene
Concen: 0.81 ug/l
RT: 11.489 min Scan# 1768
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:105 Resp: 3408

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.8	71.5

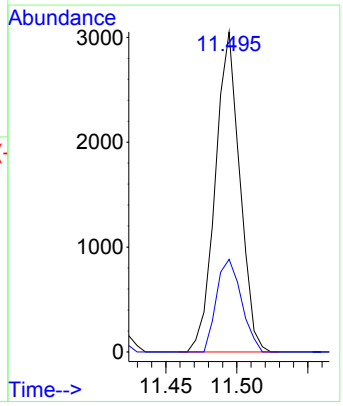




#82
4-Chlorotoluene
Concen: 0.88 ug/l
RT: 11.495 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

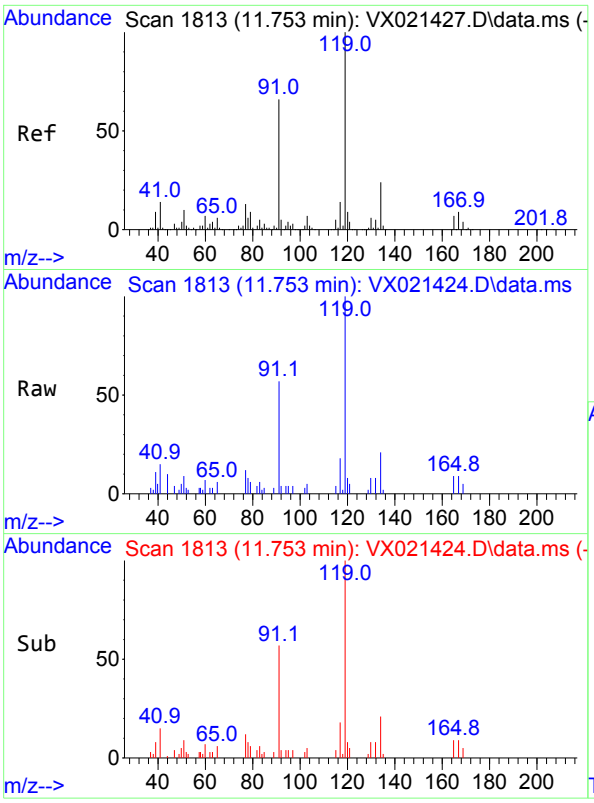
Tgt Ion: 91 Resp: 3659

Ion	Ratio	Lower	Upper
91	100		
126	29.4	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

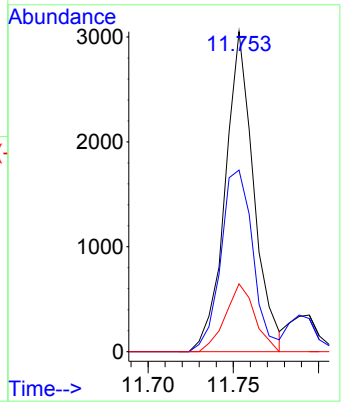
Manual Integrations APPROVED
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3/25/2021 9:49:16 AM

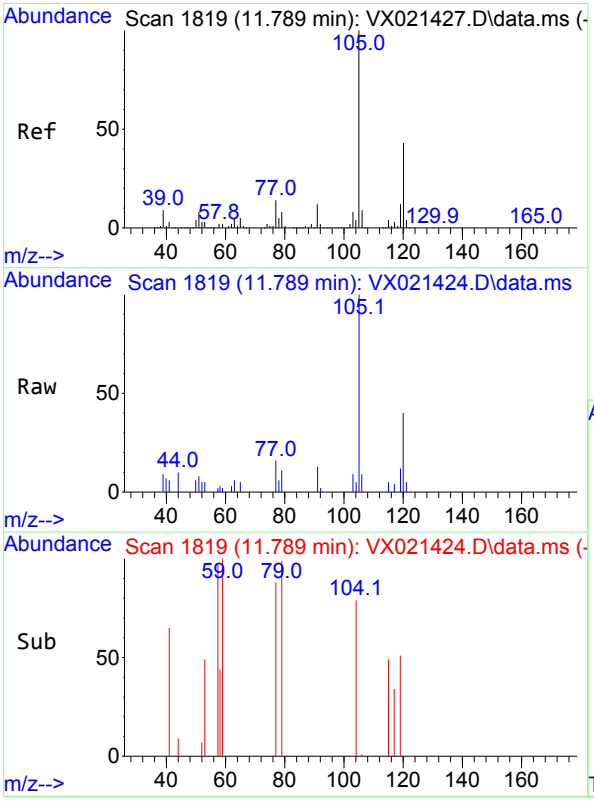


#83
tert-Butylbenzene
Concen: 0.89 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:119 Resp: 3559

Ion	Ratio	Lower	Upper
119	100		
91	64.1	27.9	83.7
134	21.7	11.3	33.9

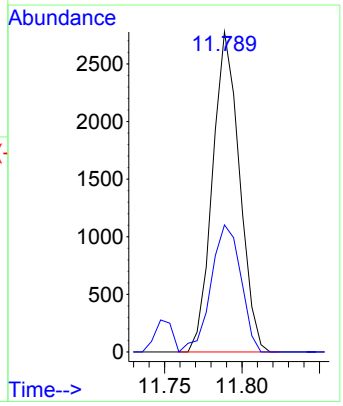




#84
1,2,4-Trimethylbenzene
Concen: 0.78 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

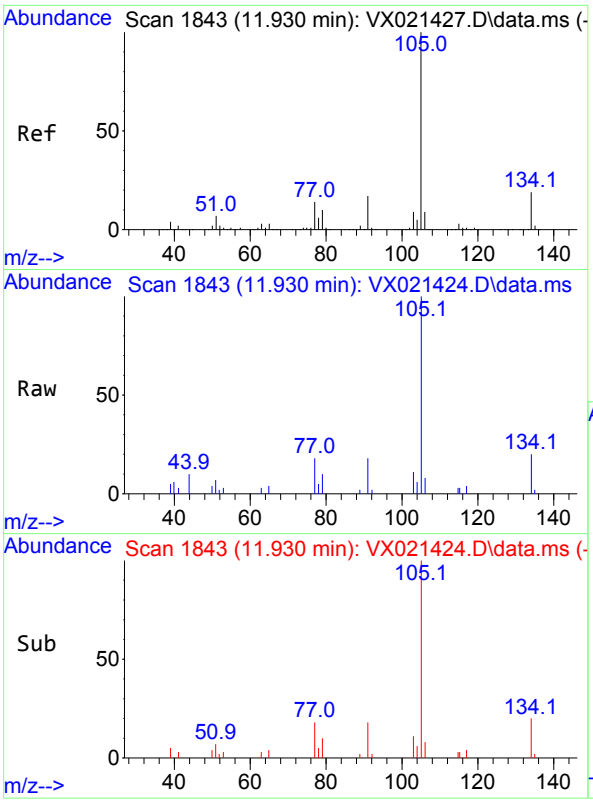
Tgt Ion:105 Resp: 3352

Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

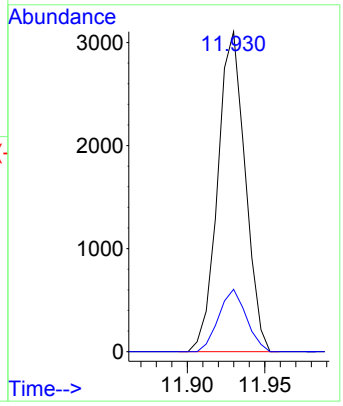
Manual Integrations APPROVED
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3/25/2021 9:49:16 AM

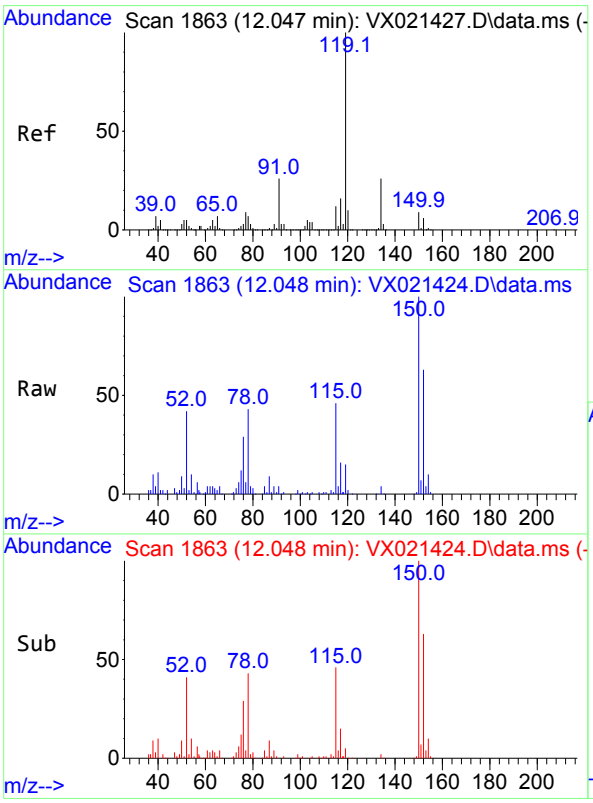


#85
sec-Butylbenzene
Concen: 0.81 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:105 Resp: 3823

Ion	Ratio	Lower	Upper
105	100		
134	19.6	10.0	29.8

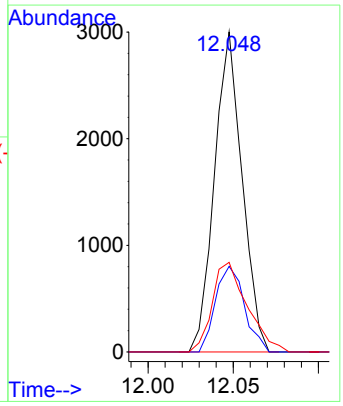




#86
p-Isopropyltoluene
Concen: 0.78 ug/l
RT: 12.048 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

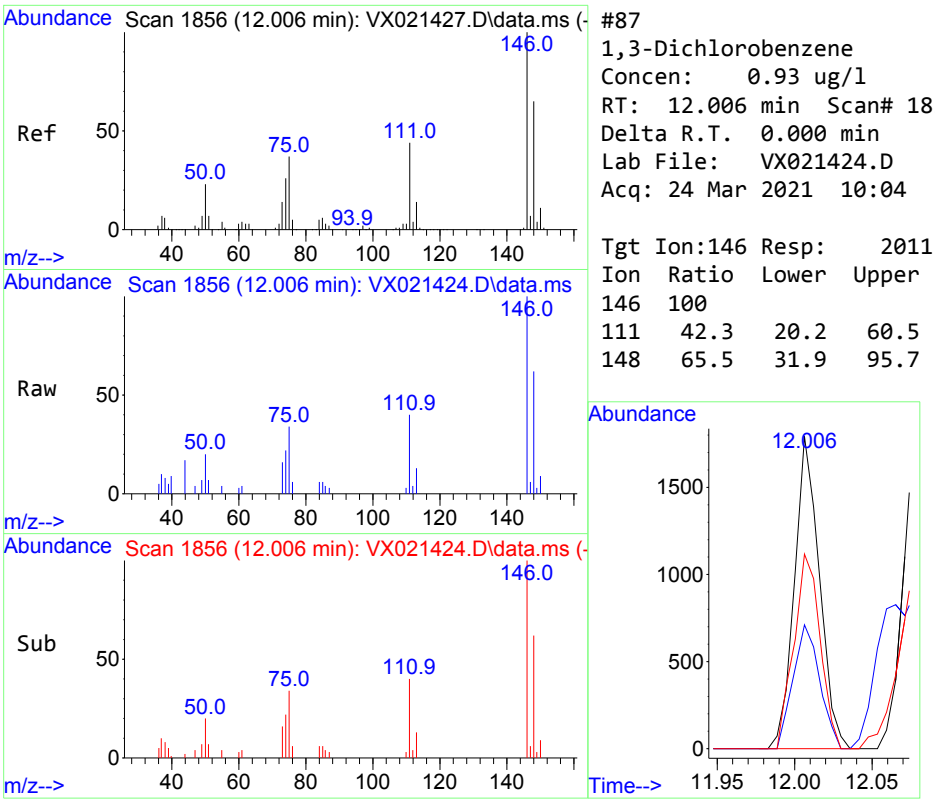
Tgt Ion:119 Resp: 3382

Ion	Ratio	Lower	Upper
119	100		
134	28.1	12.9	38.7
91	35.4	11.7	35.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

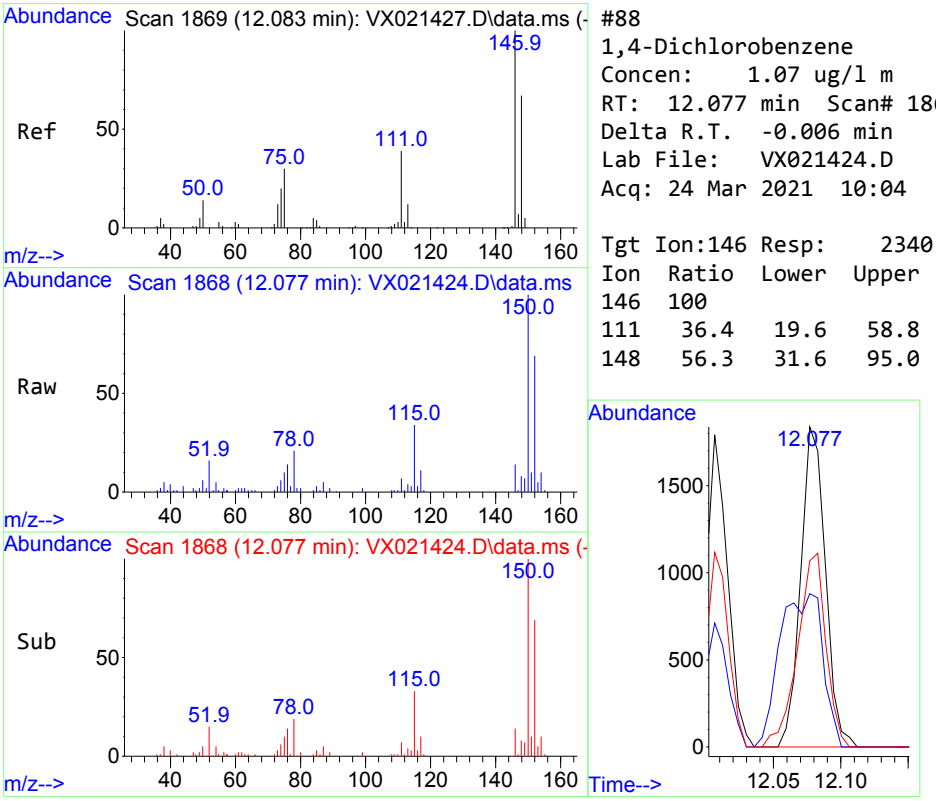
Manual Integrations APPROVED
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3/25/2021 9:49:16 AM



#87
1,3-Dichlorobenzene
Concen: 0.93 ug/l
RT: 12.006 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:146 Resp: 2011

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.2	60.5
148	65.5	31.9	95.7



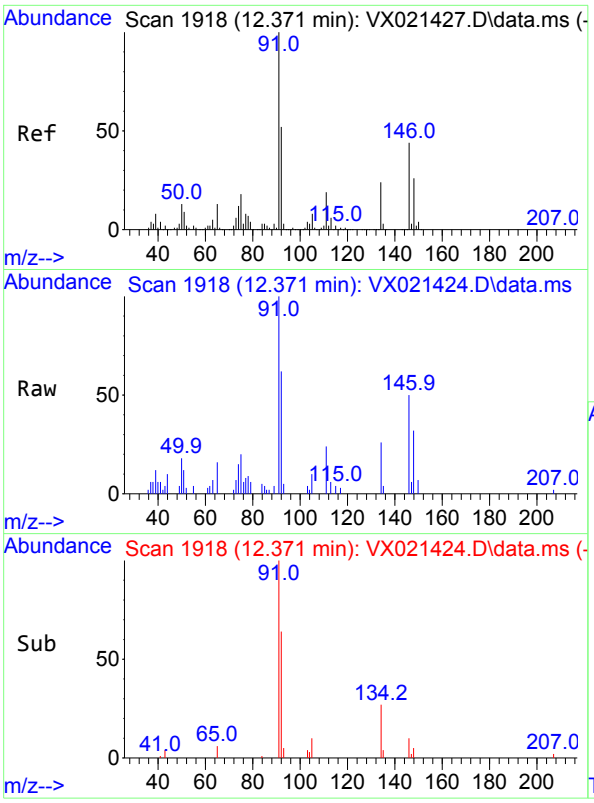
#88
1,4-Dichlorobenzene
Concen: 1.07 ug/l m
RT: 12.077 min Scan# 1868
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:146 Resp: 2340

Ion	Ratio	Lower	Upper
146	100		
111	36.4	19.6	58.8
148	56.3	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

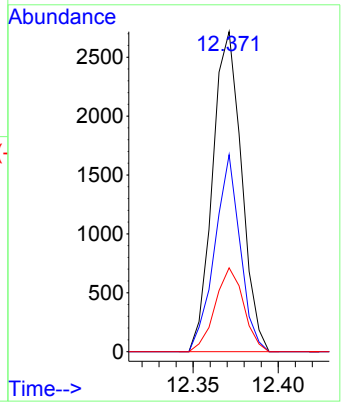
Manual Integrations APPROVED
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3/25/2021 9:49:16 AM

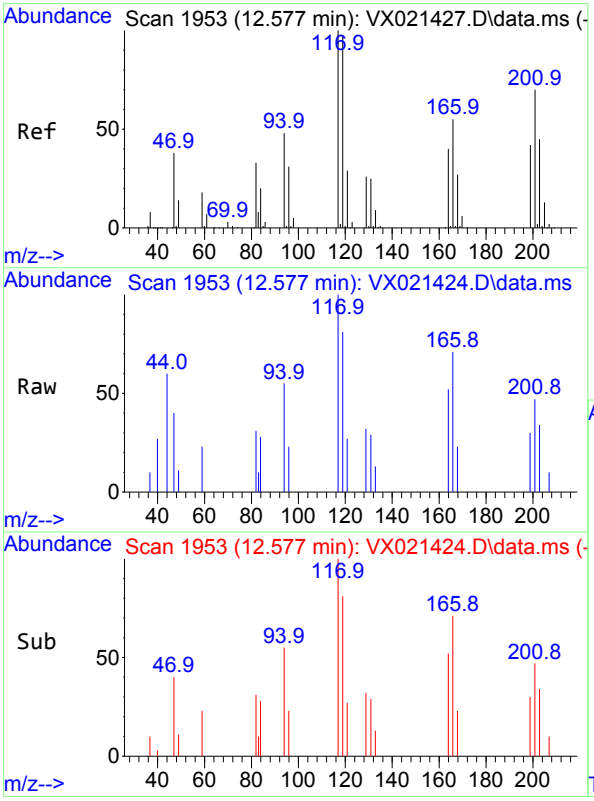


#89
n-Butylbenzene
Concen: 0.81 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion: 91 Resp: 3212

Ion	Ratio	Lower	Upper
91	100		
92	54.3	27.4	82.0
134	25.8	13.2	39.5

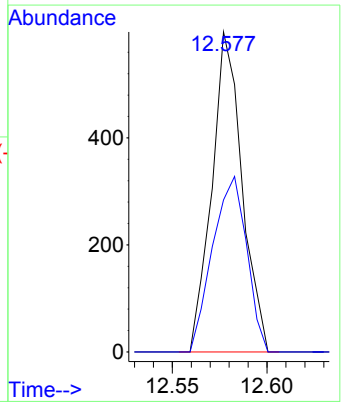




#90
Hexachloroethane
Concen: 0.98 ug/l
RT: 12.577 min Scan# 1953
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

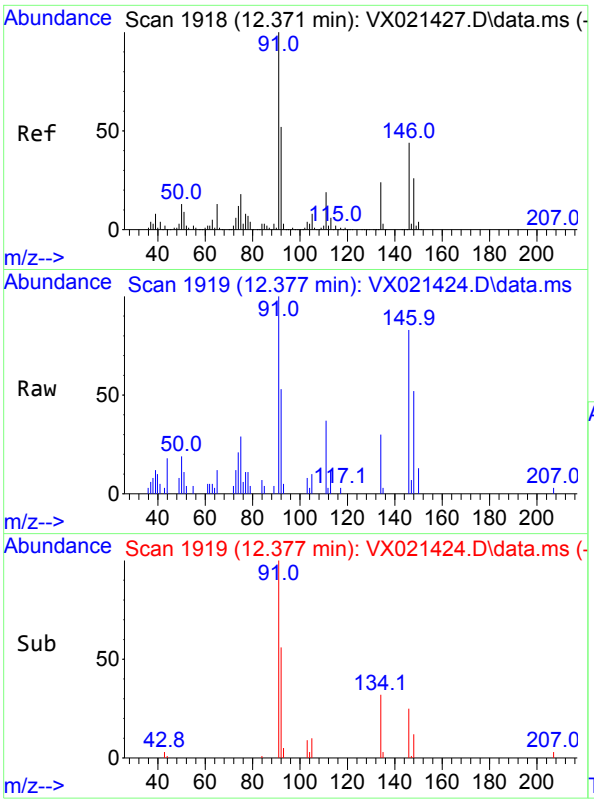
Tgt Ion:117 Resp: 662

Ion	Ratio	Lower	Upper
117	100		
201	61.9	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

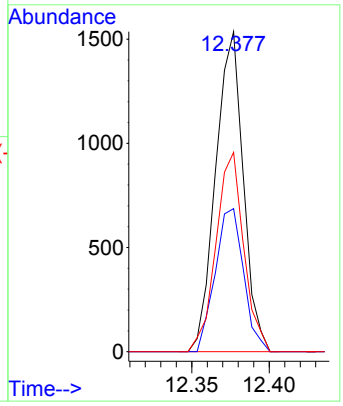
Manual Integrations APPROVED
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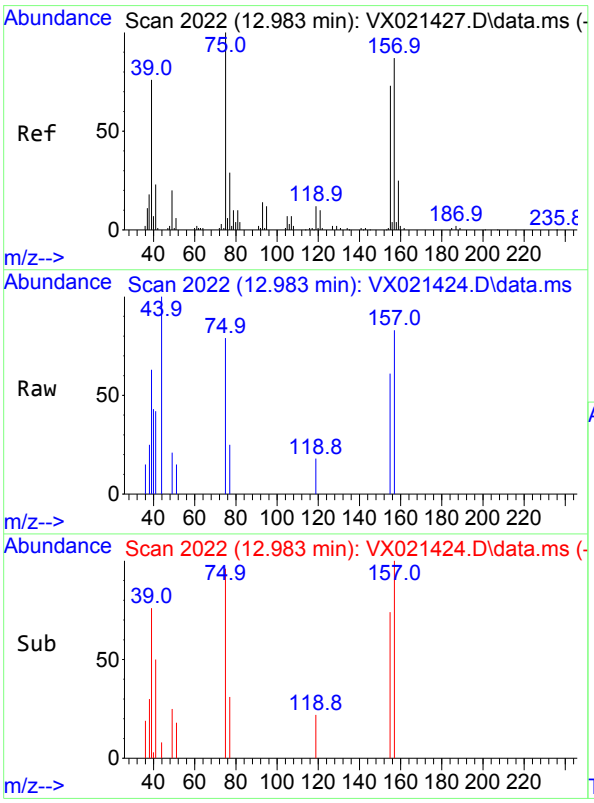


#91
1,2-Dichlorobenzene
Concen: 0.91 ug/l
RT: 12.377 min Scan# 1919
Delta R.T. 0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:146 Resp: 1902

Ion	Ratio	Lower	Upper
146	100		
111	46.0	20.8	62.2
148	62.7	31.9	95.5

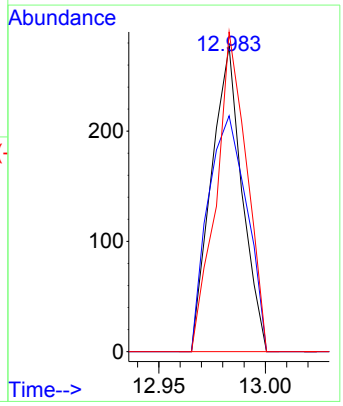




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.66 ug/l
RT: 12.983 min Scan# 2022
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

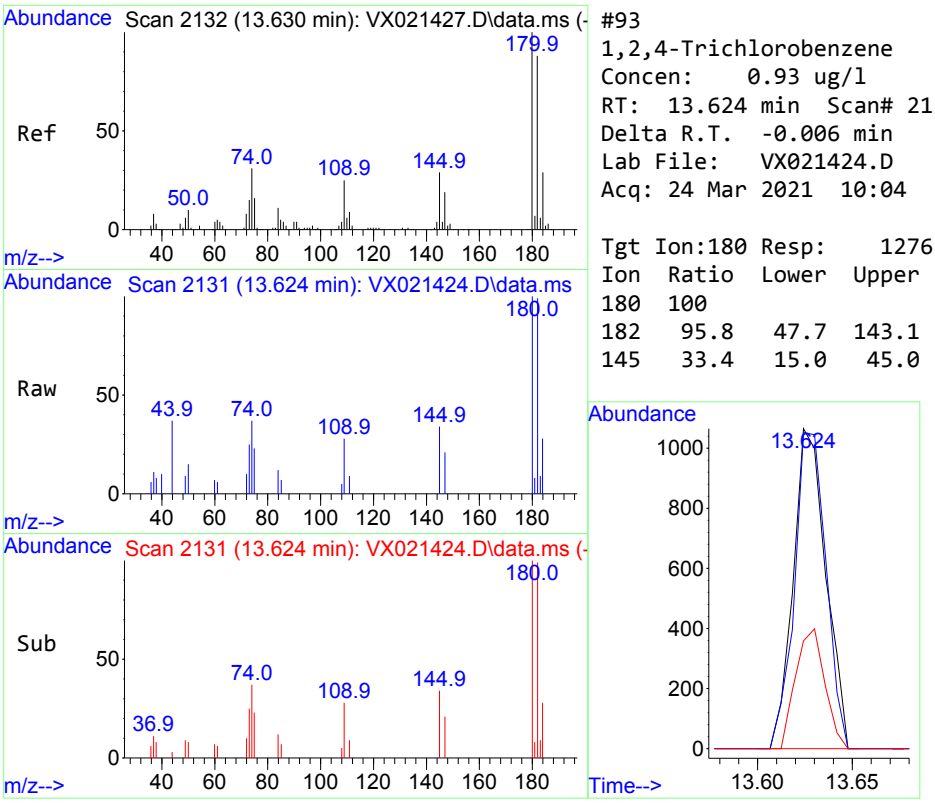
Tgt Ion: 75 Resp: 278

Ion	Ratio	Lower	Upper
75	100		
155	97.1	45.3	135.9
157	104.0	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

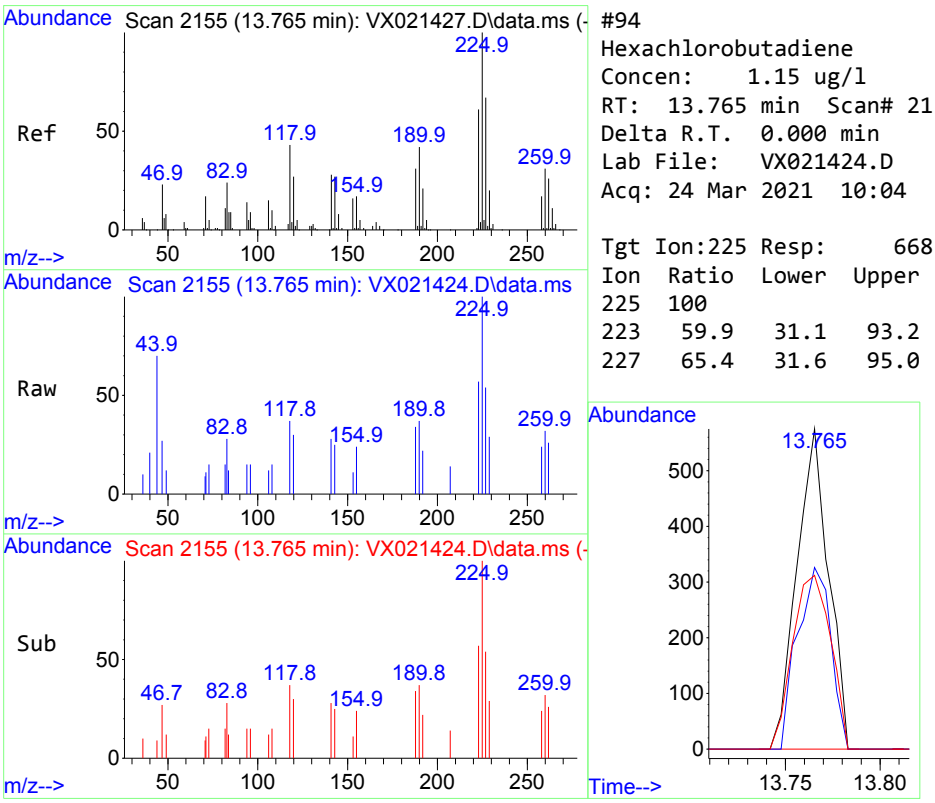
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#93
1,2,4-Trichlorobenzene
Concen: 0.93 ug/l
RT: 13.624 min Scan# 2131
Delta R.T. -0.006 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:180 Resp: 1276

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.7	143.1
145	33.4	15.0	45.0



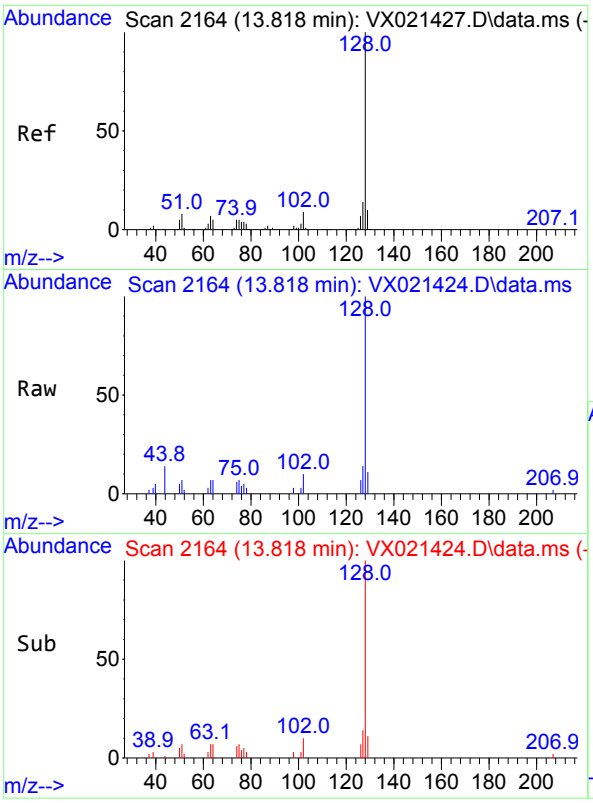
#94
Hexachlorobutadiene
Concen: 1.15 ug/l
RT: 13.765 min Scan# 2155
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:225 Resp: 668

Ion	Ratio	Lower	Upper
225	100		
223	59.9	31.1	93.2
227	65.4	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

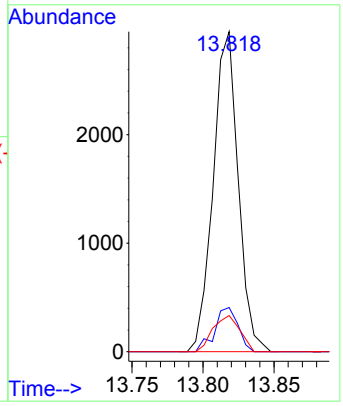
Manual Integrations APPROVED
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3/25/2021 9:49:16 AM

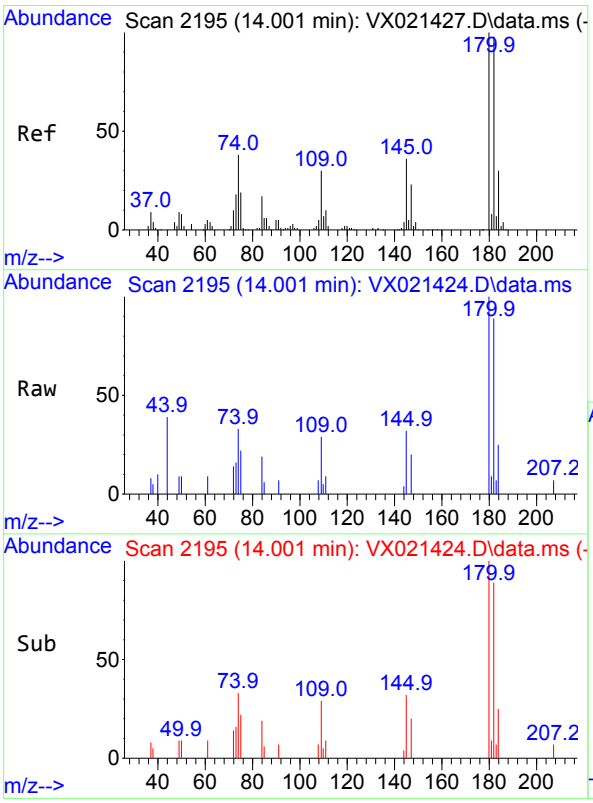


#95
Naphthalene
Concen: 0.77 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:128 Resp: 3610

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	12.1	8.8	13.2

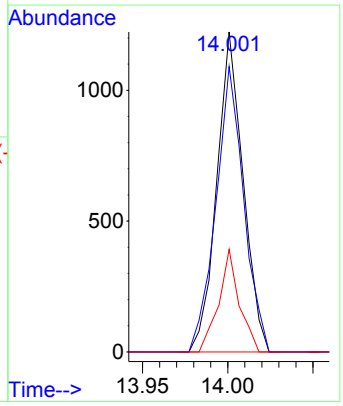




#96
1,2,3-Trichlorobenzene
Concen: 0.96 ug/l
RT: 14.001 min Scan# 2195
Delta R.T. 0.000 min
Lab File: VX021424.D
Acq: 24 Mar 2021 10:04

Tgt Ion:180 Resp: 1313

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.6	142.9
145	25.0	16.1	48.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021425.D
Acq On : 24 Mar 2021 10:26
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 11:43:03 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICC005

Manual Integrations APPROVED
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3/25/2021 9:49:21 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.623	168	74515	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	125797	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	112604	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	54644	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.029	65	6653	5.47	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 10.94%#				
35) Dibromofluoromethane	5.464	113	4745	5.53	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 11.06%#				
50) Toluene-d8	8.694	98	15711	5.03	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 10.06%#				
62) 4-Bromofluorobenzene	11.118	95	6021	4.99	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 9.98%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.187	85	4176	4.78	ug/l		98
3) Chloromethane	1.317	50	5688	3.44	ug/l		98
4) Vinyl Chloride	1.393	62	4327	4.85	ug/l		90
5) Bromomethane	1.623	94	1853	4.83	ug/l		96
6) Chloroethane	1.705	64	2894	5.29	ug/l		92
7) Trichlorofluoromethane	1.911	101	7501	5.54	ug/l		97
8) Diethyl Ether	2.170	74	2545	5.36	ug/l		79
9) 1,1,2-Trichlorotrifluo...	2.364	101	4040	5.24	ug/l		94
10) Methyl Iodide	2.487	142	2092	3.21	ug/l	#	86
11) Tert butyl alcohol	3.023	59	5295	25.98	ug/l		97
12) 1,1-Dichloroethene	2.352	96	3931	5.24	ug/l		90
13) Acrolein	2.270	56	4264	34.38	ug/l		100
14) Allyl chloride	2.705	41	7998	5.17	ug/l	#	89
15) Acrylonitrile	3.117	53	12790	26.83	ug/l		97
16) Acetone	2.423	43	11896	26.38	ug/l	#	85
17) Carbon Disulfide	2.546	76	10224	4.41	ug/l		97
18) Methyl Acetate	2.752	43	6466	5.12	ug/l	#	88
19) Methyl tert-butyl Ether	3.170	73	14337	5.09	ug/l		100
20) Methylene Chloride	2.835	84	4779	5.20	ug/l	#	88
21) trans-1,2-Dichloroethene	3.140	96	4324	5.15	ug/l		92
22) Diisopropyl ether	3.823	45	15521	5.22	ug/l		89
23) Vinyl Acetate	3.782	43	64560	25.06	ug/l	#	92
24) 1,1-Dichloroethane	3.670	63	8542	5.31	ug/l		98
25) 2-Butanone	4.635	43	18665	27.07	ug/l	#	88
26) 2,2-Dichloropropane	4.547	77	7167	5.12	ug/l		98
27) cis-1,2-Dichloroethene	4.564	96	4917	5.09	ug/l		88
28) Bromochloromethane	4.976	49	4554	5.99	ug/l	#	79
29) Tetrahydrofuran	5.100	42	12190	26.83	ug/l	#	84
30) Chloroform	5.176	83	8881	5.30	ug/l		97
31) Cyclohexane	5.547	56	6790	4.68	ug/l		89
32) 1,1,1-Trichloroethane	5.464	97	7832	5.27	ug/l		95
36) 1,1-Dichloropropene	5.764	75	6344	5.03	ug/l		96
37) Ethyl Acetate	4.794	43	7648	5.24	ug/l	#	91
38) Carbon Tetrachloride	5.758	117	7040	5.36	ug/l		95
39) Methylcyclohexane	7.435	83	6855	4.89	ug/l		92
40) Benzene	6.111	78	18322	5.26	ug/l		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021425.D
Acq On : 24 Mar 2021 10:26
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 11:43:03 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICC005

Manual Integrations APPROVED
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3/25/2021 9:49:21 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	5.005	41	4189	4.96	ug/l		88
42) 1,2-Dichloroethane	6.158	62	8127	5.39	ug/l		93
43) Isopropyl Acetate	6.411	43	11744	4.91	ug/l	#	90
44) Trichloroethene	7.188	130	4703	5.09	ug/l		81
45) 1,2-Dichloropropane	7.488	63	4936	5.26	ug/l		95
46) Dibromomethane	7.635	93	3645	5.29	ug/l		88
47) Bromodichloromethane	7.876	83	7172	5.21	ug/l		95
48) Methyl methacrylate	7.747	41	6054	4.74	ug/l	#	78
49) 1,4-Dioxane	7.718	88	2411	101.83	ug/l	#	90
51) 4-Methyl-2-Pentanone	8.618	43	35718	25.40	ug/l		88
52) Toluene	8.765	92	10654	4.94	ug/l		96
53) t-1,3-Dichloropropene	9.024	75	6709	4.60	ug/l		96
54) cis-1,3-Dichloropropene	8.412	75	7453	4.80	ug/l	#	81
55) 1,1,2-Trichloroethane	9.194	97	4600	5.19	ug/l		98
56) Ethyl methacrylate	9.159	69	6520	4.60	ug/l	#	72
57) 1,3-Dichloropropane	9.353	76	7840	5.08	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.288	63	17847	22.84	ug/l		94
59) 2-Hexanone	9.471	43	26107	24.82	ug/l		86
60) Dibromochloromethane	9.565	129	4909	4.87	ug/l		97
61) 1,2-Dibromoethane	9.653	107	4785	4.91	ug/l		98
64) Tetrachloroethene	9.318	164	4080	4.90	ug/l	#	89
65) Chlorobenzene	10.118	112	11854	5.12	ug/l		95
66) 1,1,1,2-Tetrachloroethane	10.206	131	4291	4.97	ug/l		95
67) Ethyl Benzene	10.235	91	20845	4.89	ug/l		99
68) m/p-Xylenes	10.341	106	14901	9.77	ug/l		90
69) o-Xylene	10.683	106	7137	4.82	ug/l		89
70) Styrene	10.694	104	11683	4.68	ug/l		93
71) Bromoform	10.836	173	3361	4.83	ug/l	#	96
73) Isopropylbenzene	11.000	105	19995	4.95	ug/l		97
74) N-amyl acetate	10.877	43	9358	4.63	ug/l	#	89
75) 1,1,2,2-Tetrachloroethane	11.253	83	7098	5.29	ug/l		98
76) 1,2,3-Trichloropropane	11.277	75	6759m	5.23	ug/l		
77) Bromobenzene	11.236	156	4812	5.00	ug/l		93
78) n-propylbenzene	11.342	91	22714	4.81	ug/l		98
79) 2-Chlorotoluene	11.400	91	14465	5.04	ug/l		97
80) 1,3,5-Trimethylbenzene	11.489	105	16909	4.95	ug/l		95
81) trans-1,4-Dichloro-2-b...	11.059	75	1800	3.93	ug/l	#	79
82) 4-Chlorotoluene	11.494	91	17040	5.04	ug/l		95
83) tert-Butylbenzene	11.753	119	15859	4.86	ug/l		92
84) 1,2,4-Trimethylbenzene	11.789	105	17040	4.91	ug/l		98
85) sec-Butylbenzene	11.930	105	18590	4.83	ug/l		99
86) p-Isopropyltoluene	12.047	119	16459	4.68	ug/l		95
87) 1,3-Dichlorobenzene	12.006	146	8791	5.02	ug/l		97
88) 1,4-Dichlorobenzene	12.077	146	9008	5.05	ug/l		90
89) n-Butylbenzene	12.371	91	15001	4.68	ug/l		95
90) Hexachloroethane	12.577	117	2943	5.38	ug/l		88
91) 1,2-Dichlorobenzene	12.377	146	8671	5.10	ug/l		94
92) 1,2-Dibromo-3-Chloropr...	12.983	75	1675	4.90	ug/l		76
93) 1,2,4-Trichlorobenzene	13.630	180	5075	4.53	ug/l		97
94) Hexachlorobutadiene	13.765	225	2497	5.29	ug/l		99
95) Naphthalene	13.818	128	17046	4.45	ug/l		99
96) 1,2,3-Trichlorobenzene	14.001	180	5117	4.61	ug/l		95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021425.D
Acq On : 24 Mar 2021 10:26
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

Quant Time: Mar 24 11:43:03 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

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

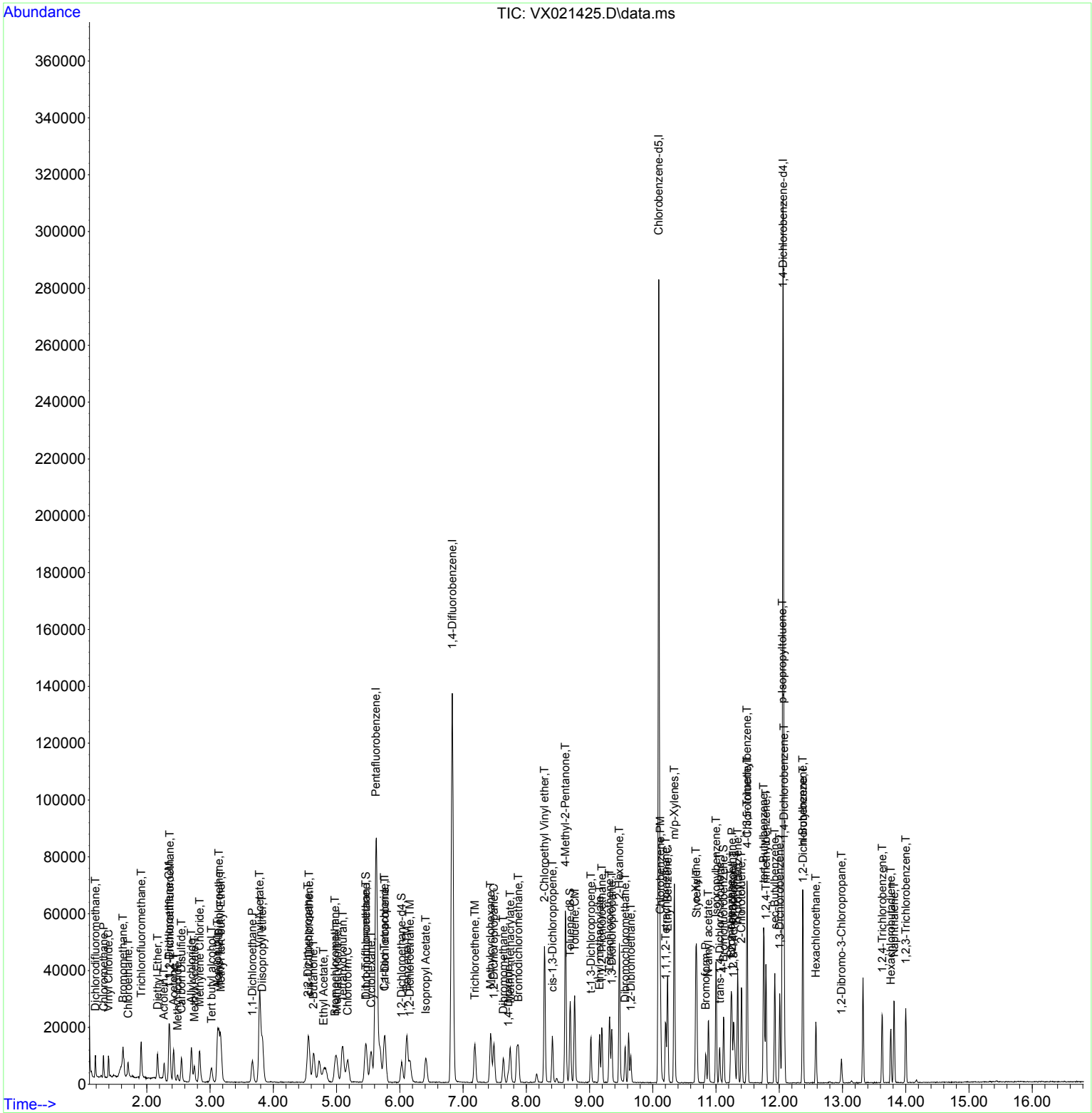
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021425.D
Acq On : 24 Mar 2021 10:26
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 24 11:43:03 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

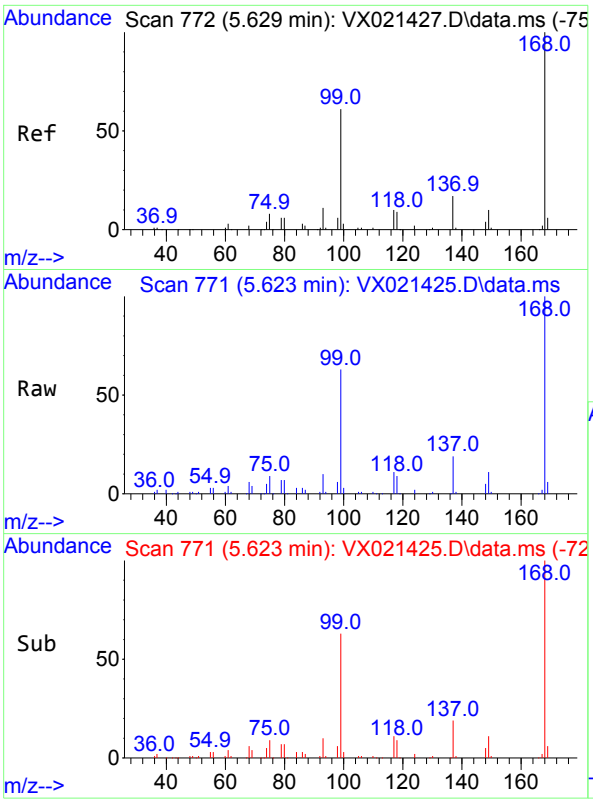
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

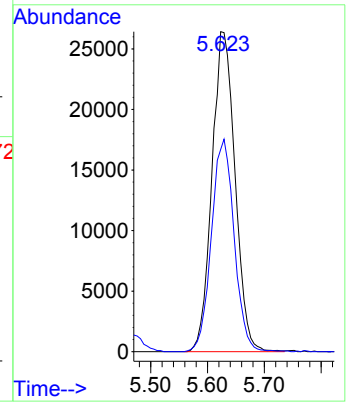
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3/25/2021 9:49:21 AM

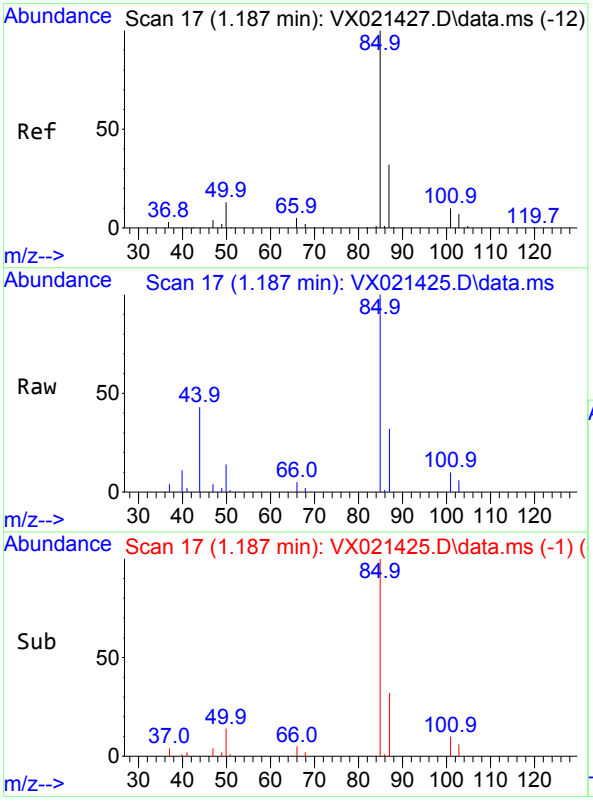


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 771
Delta R.T. -0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:168 Resp: 74515

Ion	Ratio	Lower	Upper
168	100		
99	63.2	45.8	68.6

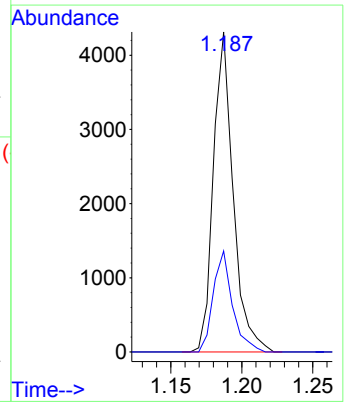




#2
Dichlorodifluoromethane
Concen: 4.78 ug/l
RT: 1.187 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

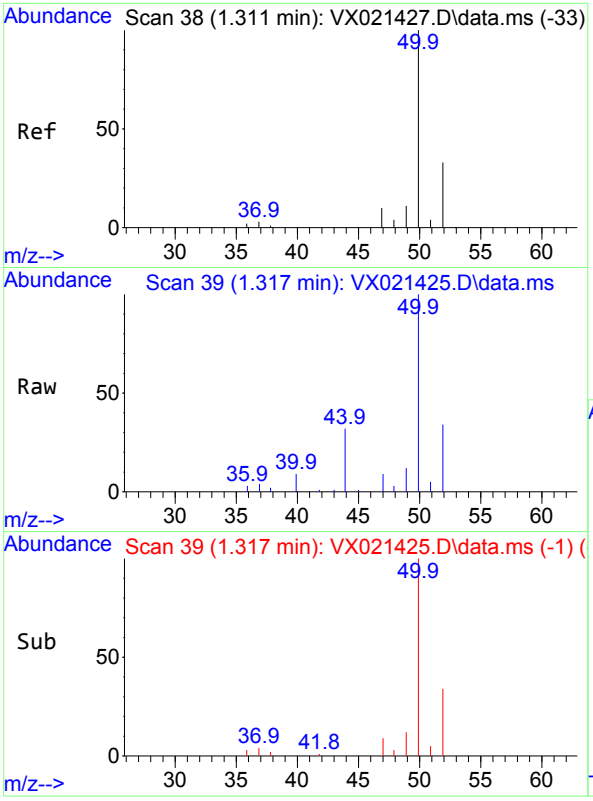
Tgt Ion: 85 Resp: 4176

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

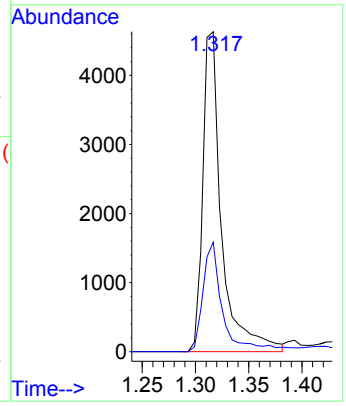
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

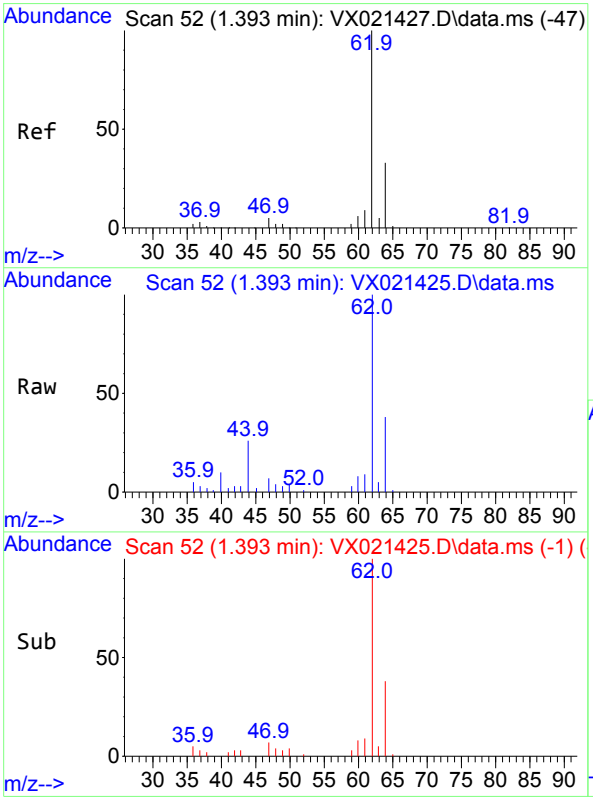


#3
Chloromethane
Concen: 3.44 ug/l
RT: 1.317 min Scan# 39
Delta R.T. 0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 50 Resp: 5688

Ion	Ratio	Lower	Upper
50	100		
52	34.2	26.4	39.6

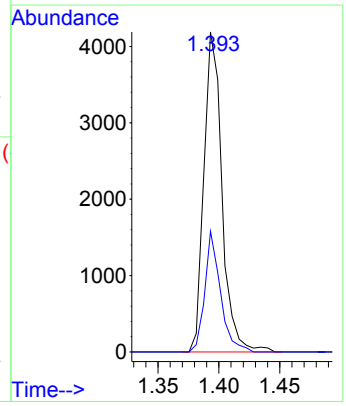




#4
Vinyl Chloride
Concen: 4.85 ug/l
RT: 1.393 min Scan# 52
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

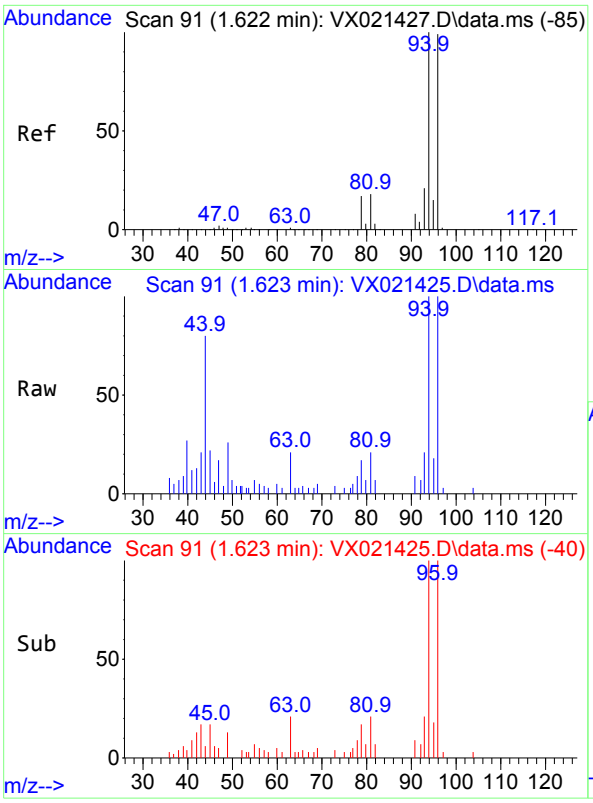
Tgt Ion: 62 Resp: 4327

Ion	Ratio	Lower	Upper
62	100		
64	37.7	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

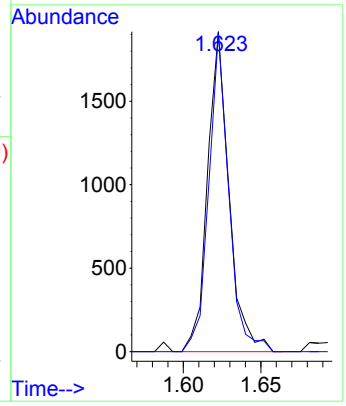
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

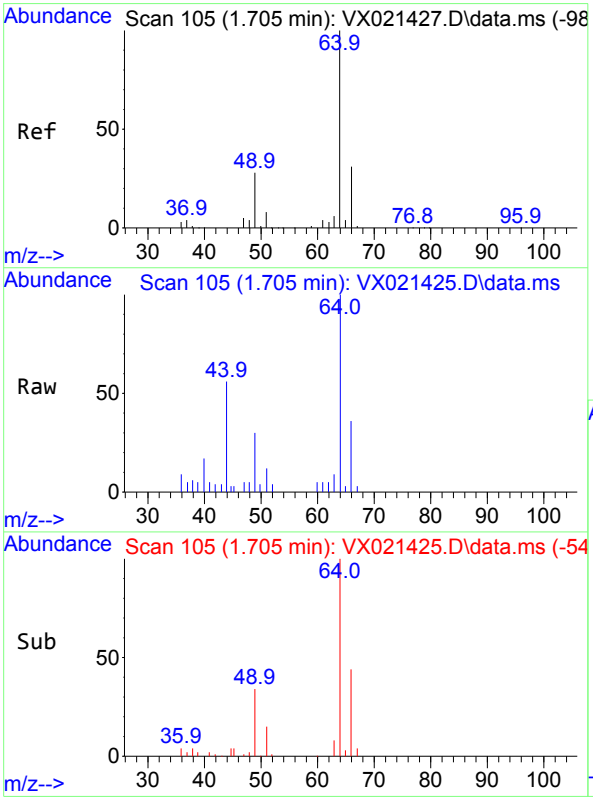


#5
Bromomethane
Concen: 4.83 ug/l
RT: 1.623 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 94 Resp: 1853

Ion	Ratio	Lower	Upper
94	100		
96	99.7	76.4	114.6

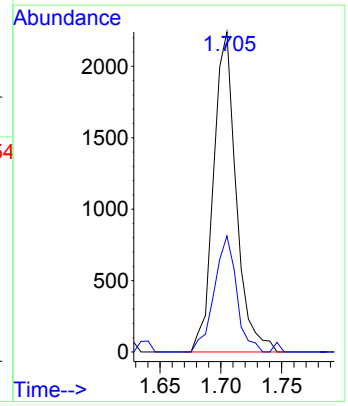




#6
Chloroethane
Concen: 5.29 ug/l
RT: 1.705 min Scan# 105
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

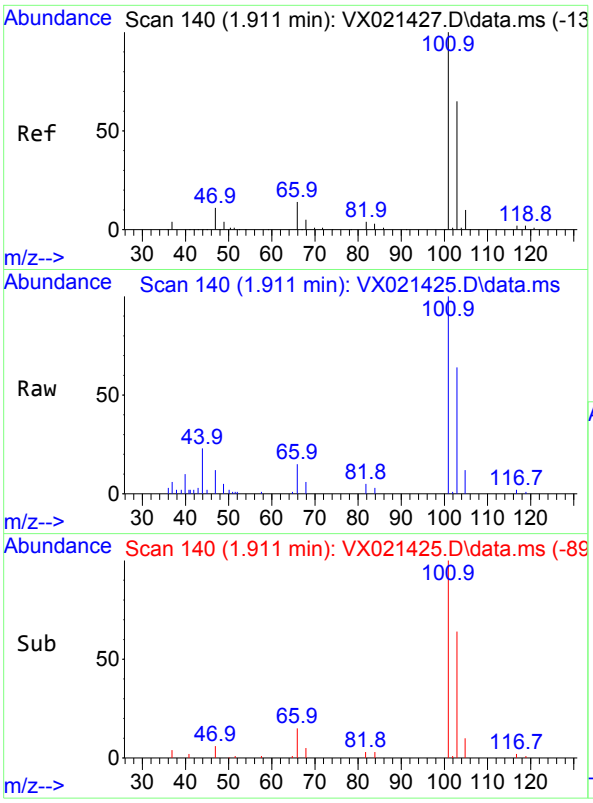
Tgt Ion: 64 Resp: 2894

Ion	Ratio	Lower	Upper
64	100		
66	36.2	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

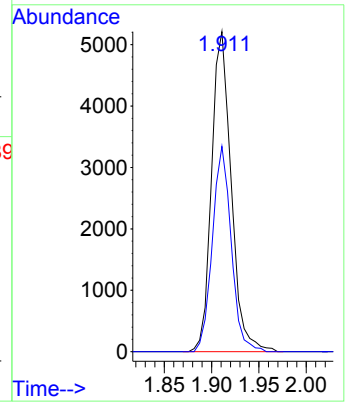
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

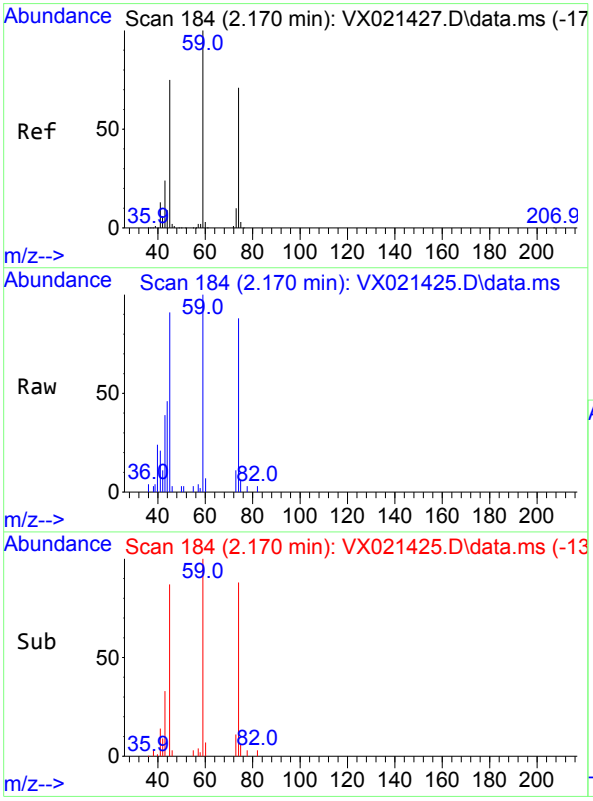


#7
Trichlorofluoromethane
Concen: 5.54 ug/l
RT: 1.911 min Scan# 140
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:101 Resp: 7501

Ion	Ratio	Lower	Upper
101	100		
103	64.1	53.2	79.8

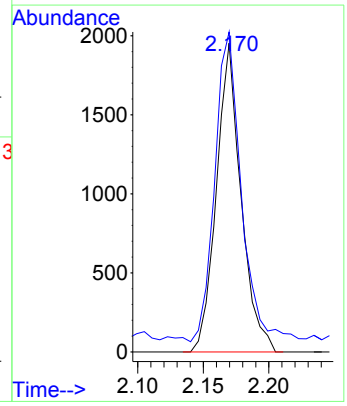




#8
Diethyl Ether
Concen: 5.36 ug/l
RT: 2.170 min Scan# 184
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

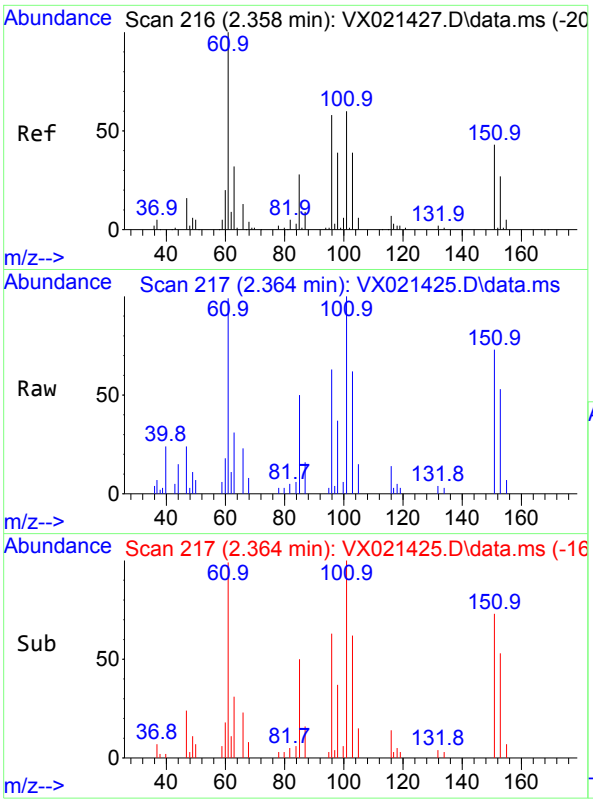
Tgt Ion: 74 Resp: 2545

Ion	Ratio	Lower	Upper
74	100		
45	108.4	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

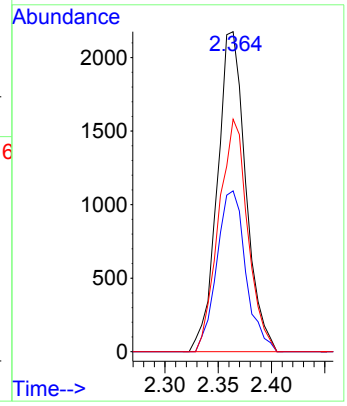
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

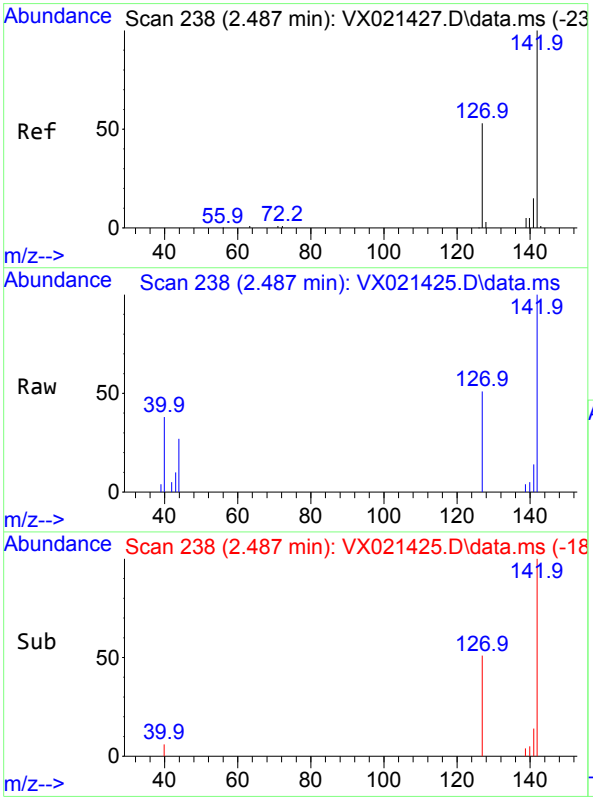


#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.24 ug/l
RT: 2.364 min Scan# 217
Delta R.T. 0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:101 Resp: 4040

Ion	Ratio	Lower	Upper
101	100		
85	51.3	34.9	52.3
151	74.1	61.4	92.2

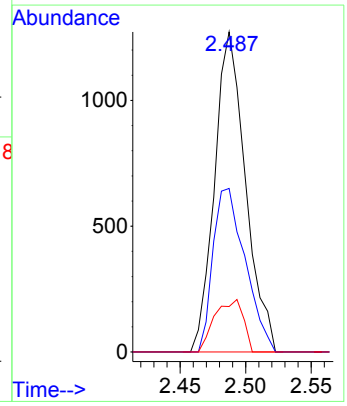




#10
Methyl Iodide
Concen: 3.21 ug/l
RT: 2.487 min Scan# 238
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

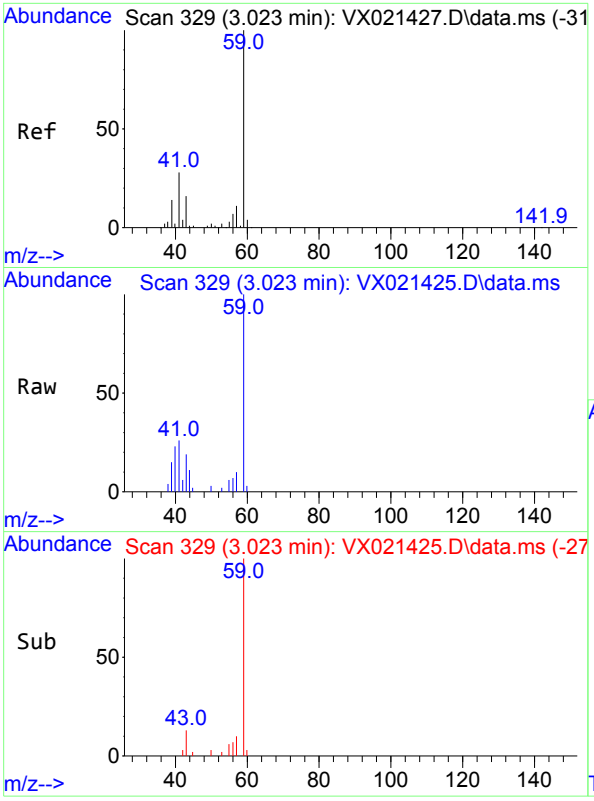
Tgt Ion:142 Resp: 2092

Ion	Ratio	Lower	Upper
142	100		
127	53.1	33.3	49.9#
141	15.1	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

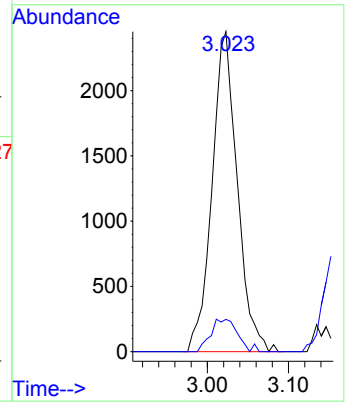
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

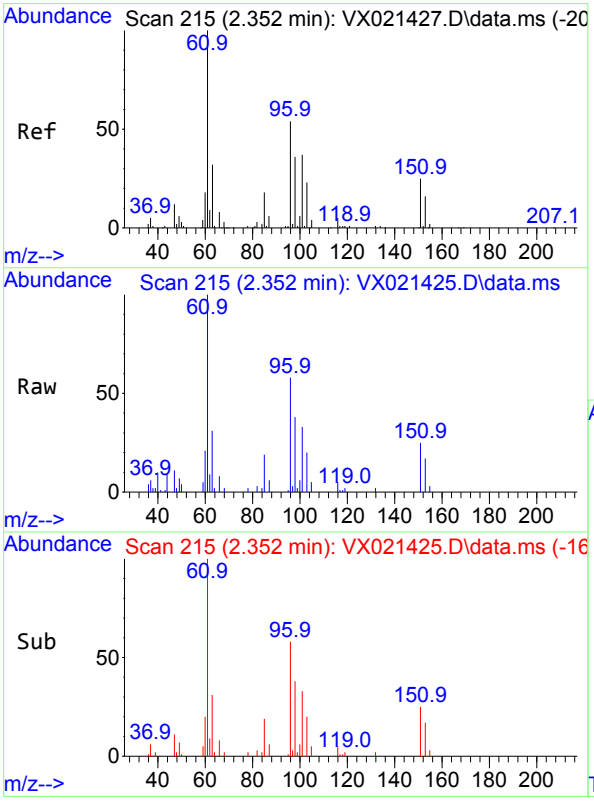


#11
Tert butyl alcohol
Concen: 25.98 ug/l
RT: 3.023 min Scan# 329
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 59 Resp: 5295

Ion	Ratio	Lower	Upper
59	100		
57	10.8	7.8	11.8

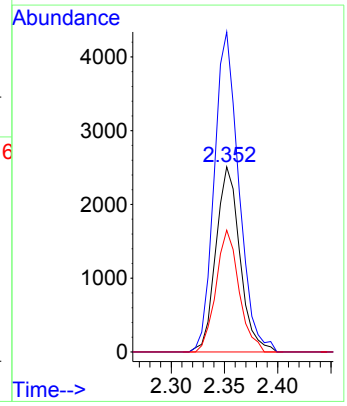




#12
1,1-Dichloroethene
Concen: 5.24 ug/l
RT: 2.352 min Scan# 215
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

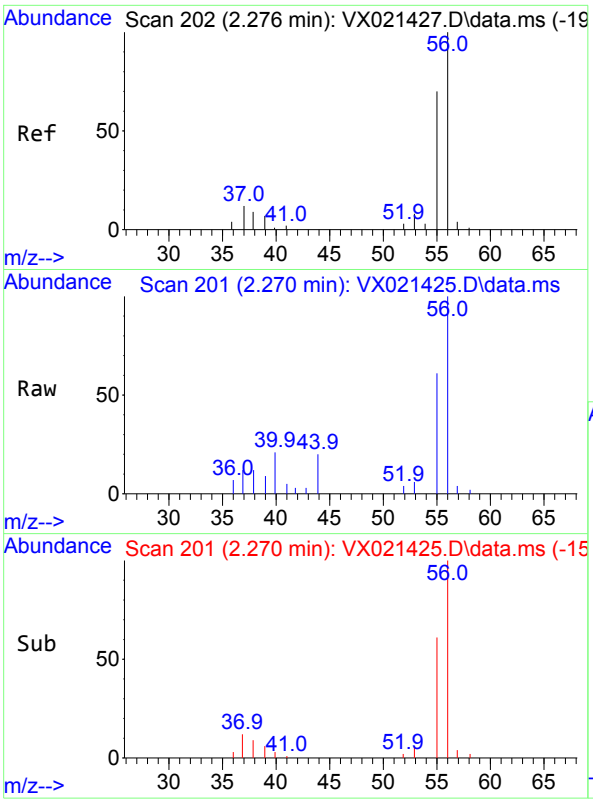
Tgt Ion: 96 Resp: 3931

Ion	Ratio	Lower	Upper
96	100		
61	172.9	124.6	187.0
98	65.8	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

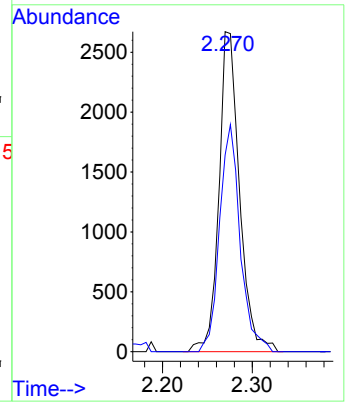
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

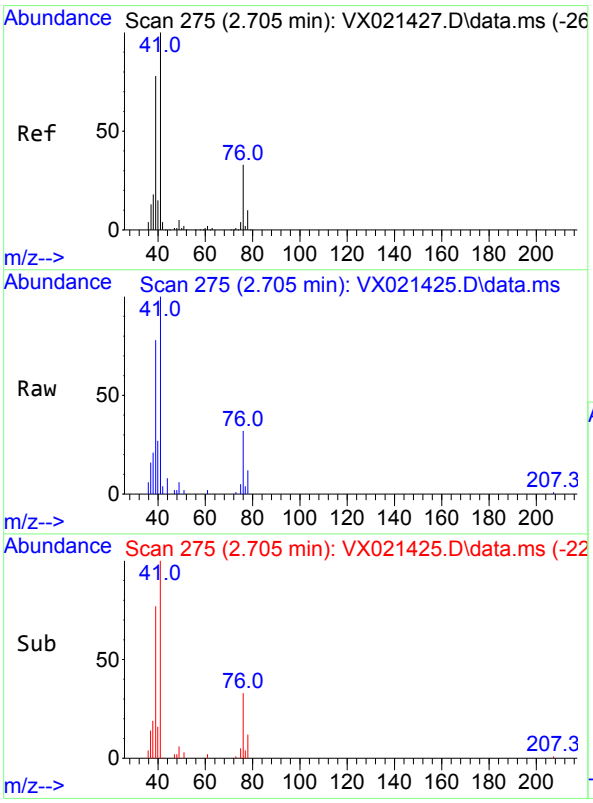


#13
Acrolein
Concen: 34.38 ug/l
RT: 2.270 min Scan# 201
Delta R.T. -0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 56 Resp: 4264

Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.4	84.6

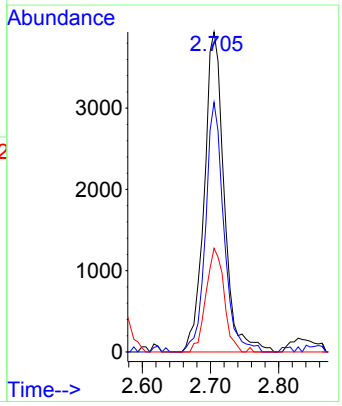




#14
Allyl chloride
Concen: 5.17 ug/l
RT: 2.705 min Scan# 275
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

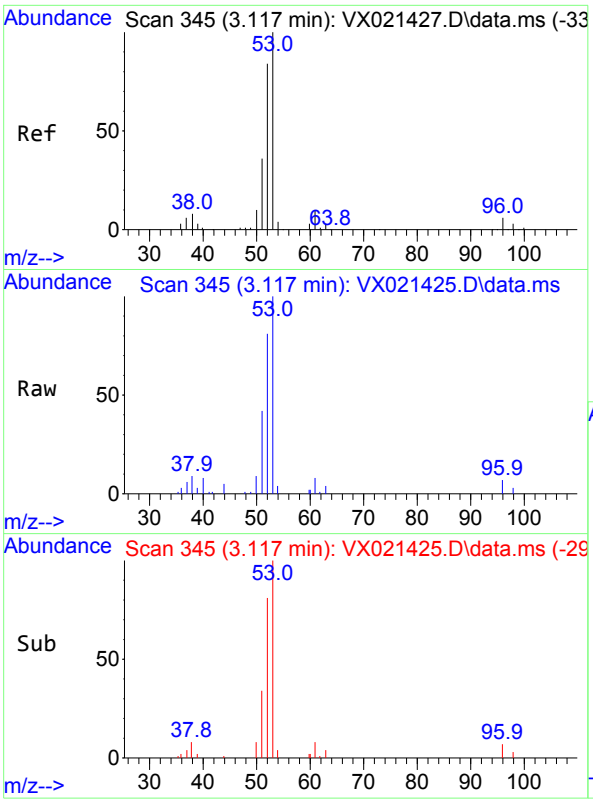
Tgt Ion: 41 Resp: 7998

Ion	Ratio	Lower	Upper
41	100		
39	71.7	51.6	77.4
76	29.4	30.5	45.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

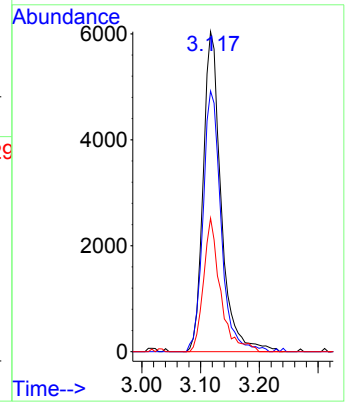
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

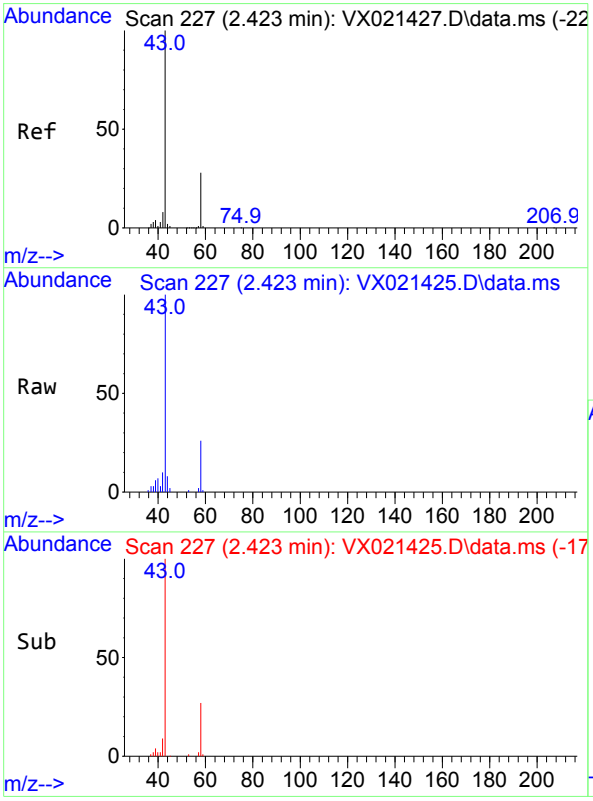


#15
Acrylonitrile
Concen: 26.83 ug/l
RT: 3.117 min Scan# 345
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 53 Resp: 12790

Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.3	97.9
51	39.4	28.2	42.2

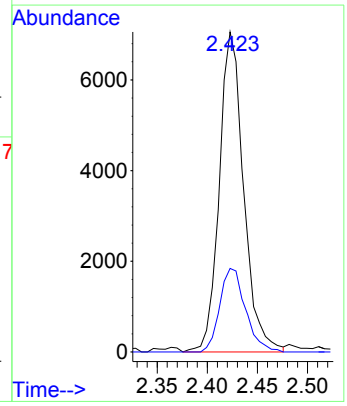




#16
Acetone
Concen: 26.38 ug/l
RT: 2.423 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

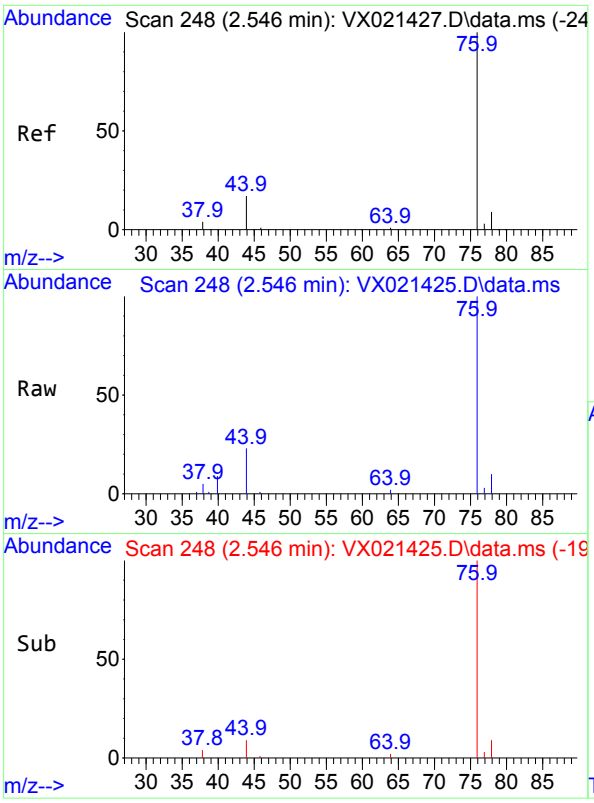
Tgt Ion: 43 Resp: 11896

Ion	Ratio	Lower	Upper
43	100		
58	26.1	27.8	41.8#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

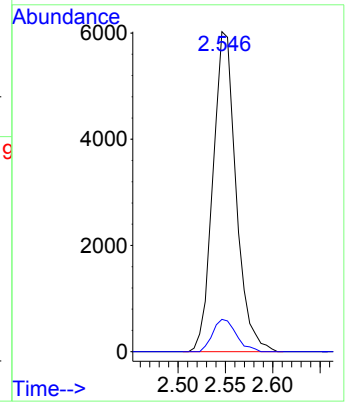
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MMDadoda
3/25/2021 9:49:21 AM

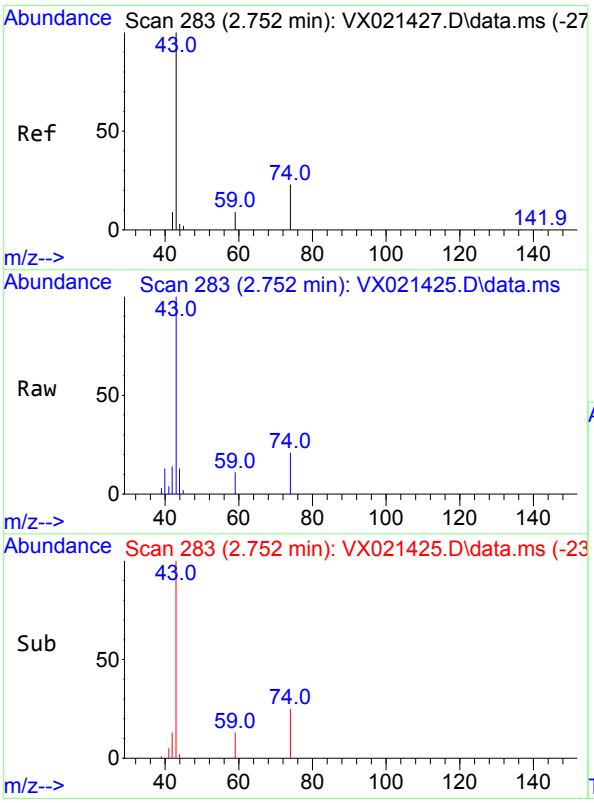


#17
Carbon Disulfide
Concen: 4.41 ug/l
RT: 2.546 min Scan# 248
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 76 Resp: 10224

Ion	Ratio	Lower	Upper
76	100		
78	10.1	7.2	10.8

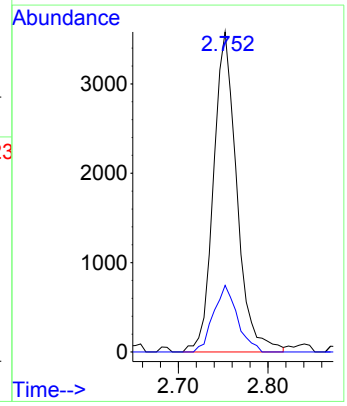




#18
Methyl Acetate
Concen: 5.12 ug/l
RT: 2.752 min Scan# 283
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

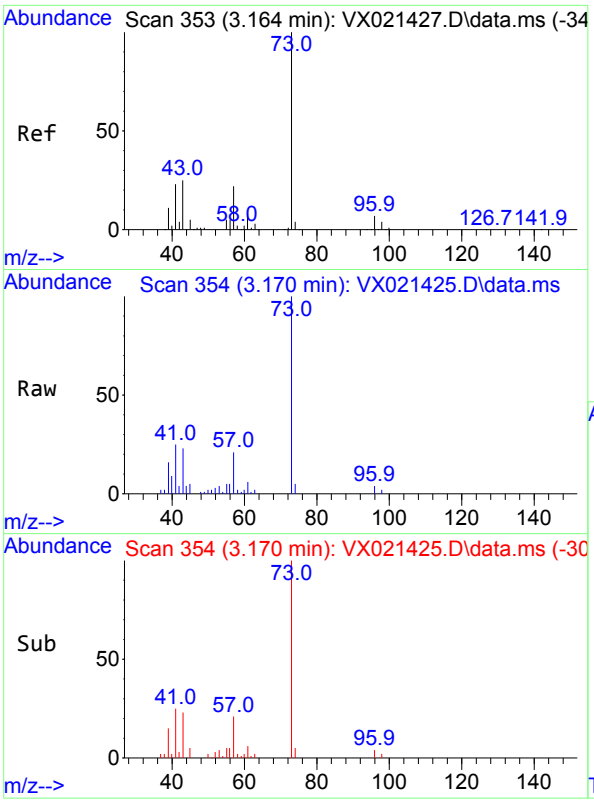
Tgt Ion: 43 Resp: 6466

Ion	Ratio	Lower	Upper
43	100		
74	21.4	21.9	32.9#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

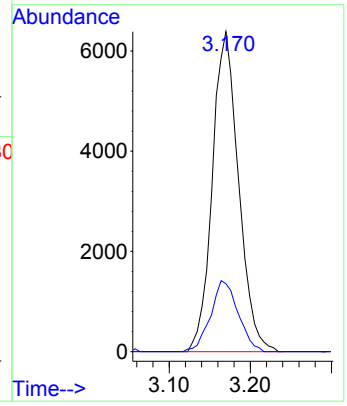
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

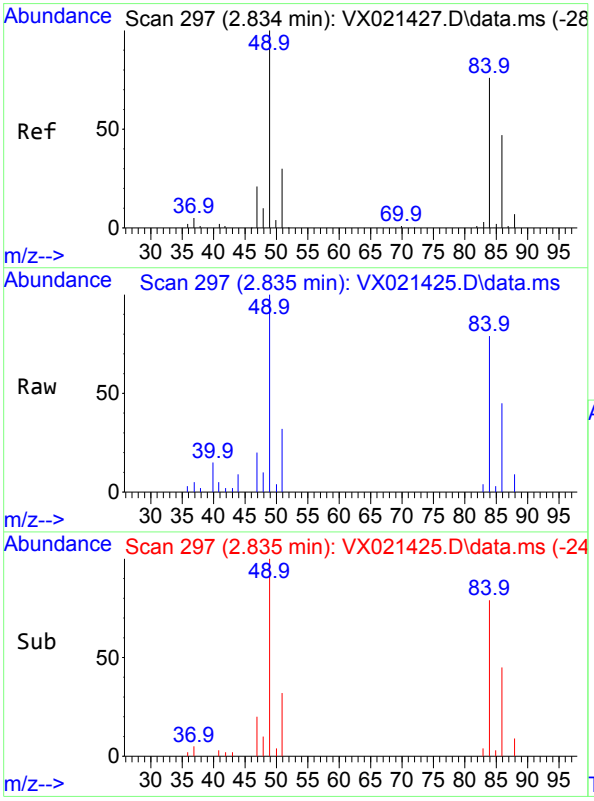


#19
Methyl tert-butyl Ether
Concen: 5.09 ug/l
RT: 3.170 min Scan# 354
Delta R.T. 0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 73 Resp: 14337

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.1	25.7

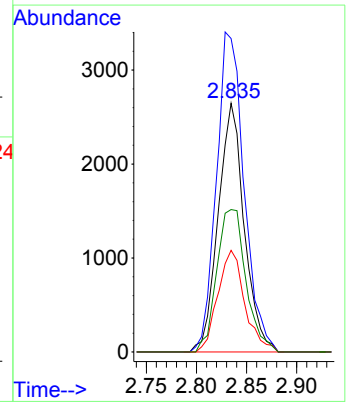




#20
Methylene Chloride
Concen: 5.20 ug/l
RT: 2.835 min Scan# 297
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

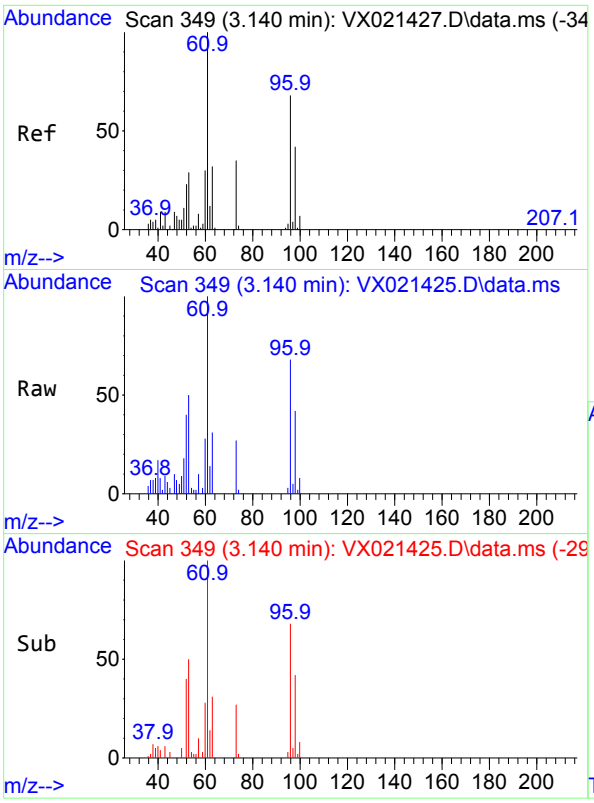
Tgt Ion: 84 Resp: 4779

Ion	Ratio	Lower	Upper
84	100		
49	126.1	88.6	132.8
51	40.8	27.0	40.6#
86	57.3	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

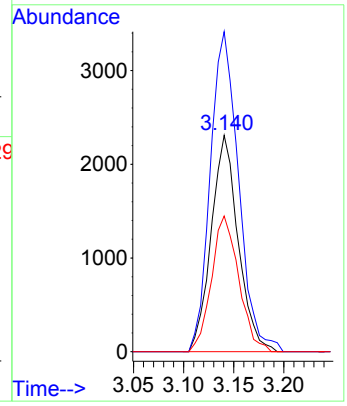
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

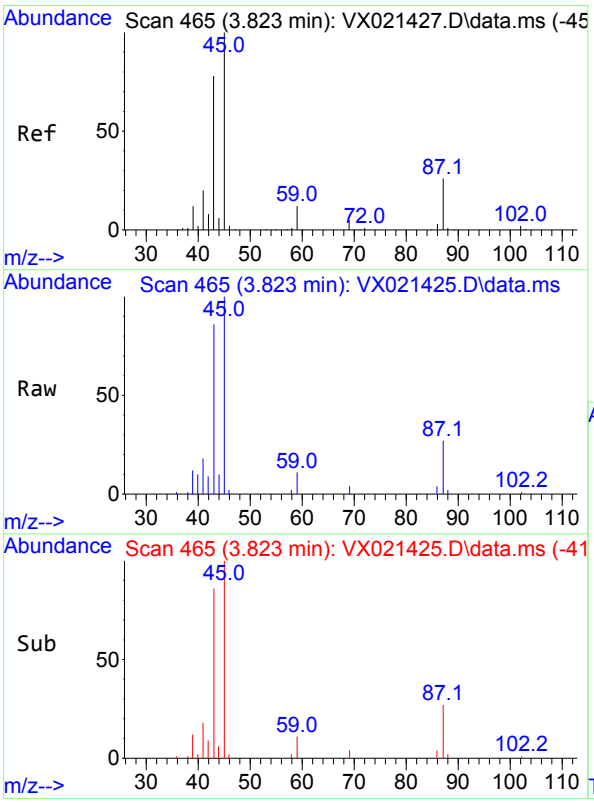


#21
trans-1,2-Dichloroethene
Concen: 5.15 ug/l
RT: 3.140 min Scan# 349
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 96 Resp: 4324

Ion	Ratio	Lower	Upper
96	100		
61	147.9	107.7	161.5
98	62.8	50.4	75.6

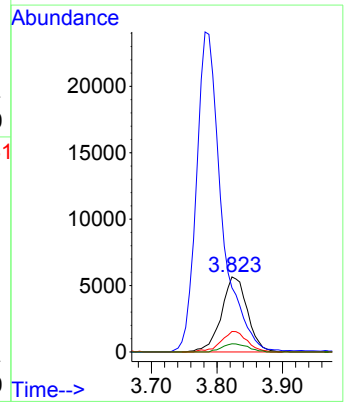




#22
Diisopropyl ether
Concen: 5.22 ug/l
RT: 3.823 min Scan# 465
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

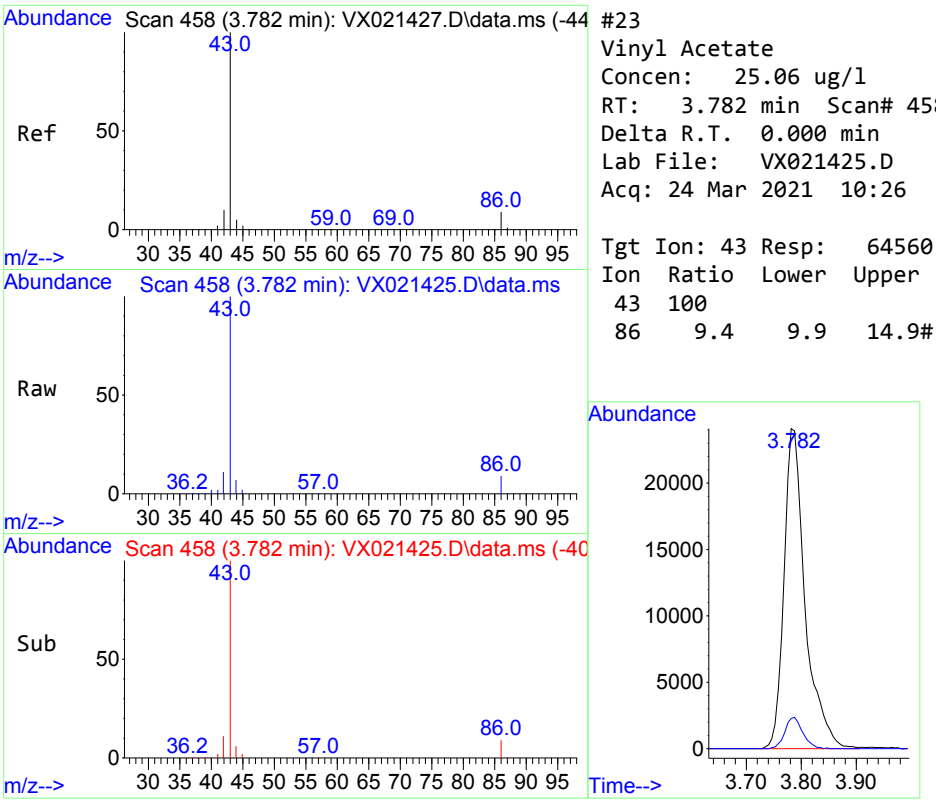
Tgt Ion: 45 Resp: 15521

Ion	Ratio	Lower	Upper
45	100		
43	83.9	58.0	87.0
87	27.2	25.4	38.0
59	11.0	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

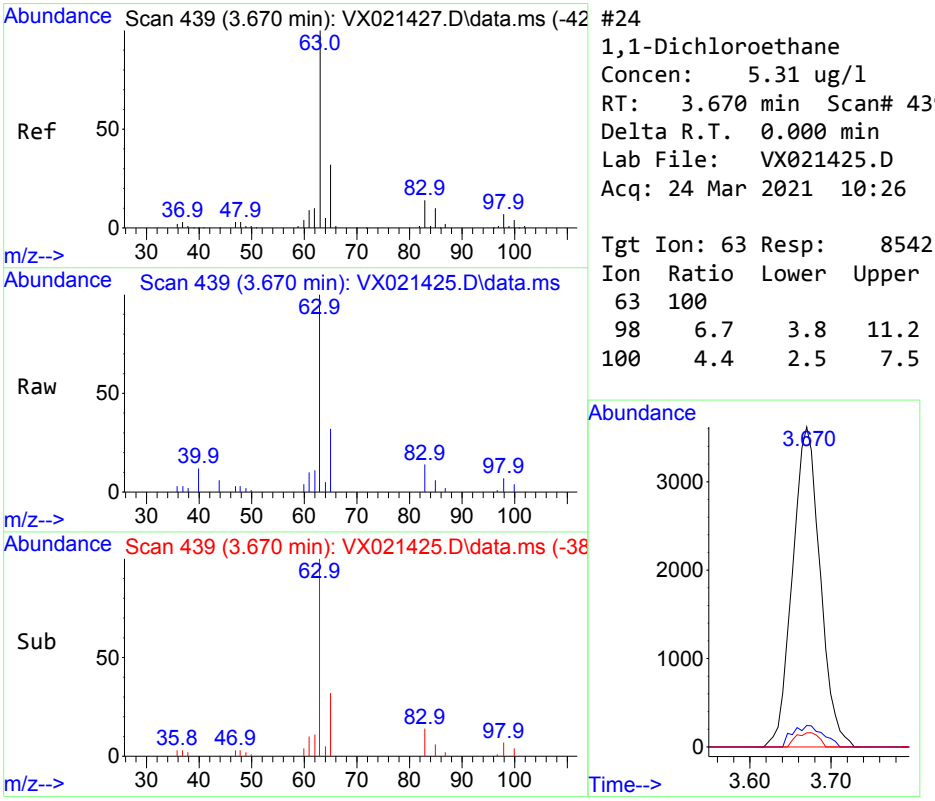
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM



#23
Vinyl Acetate
Concen: 25.06 ug/l
RT: 3.782 min Scan# 458
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 43 Resp: 64560

Ion	Ratio	Lower	Upper
43	100		
86	9.4	9.9	14.9#



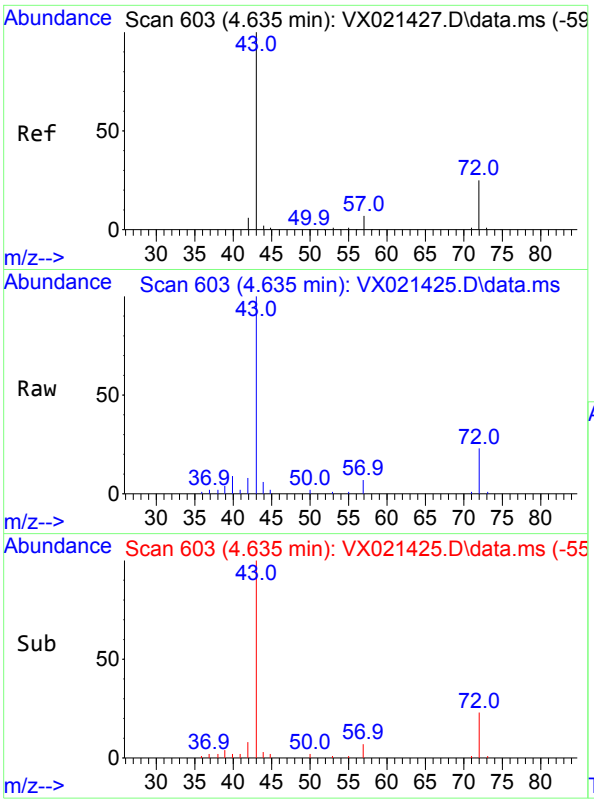
#24
1,1-Dichloroethane
Concen: 5.31 ug/l
RT: 3.670 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 63 Resp: 8542

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.8	11.2
100	4.4	2.5	7.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

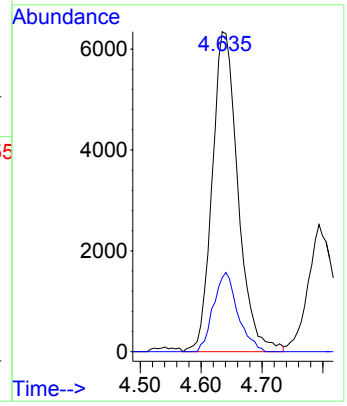
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

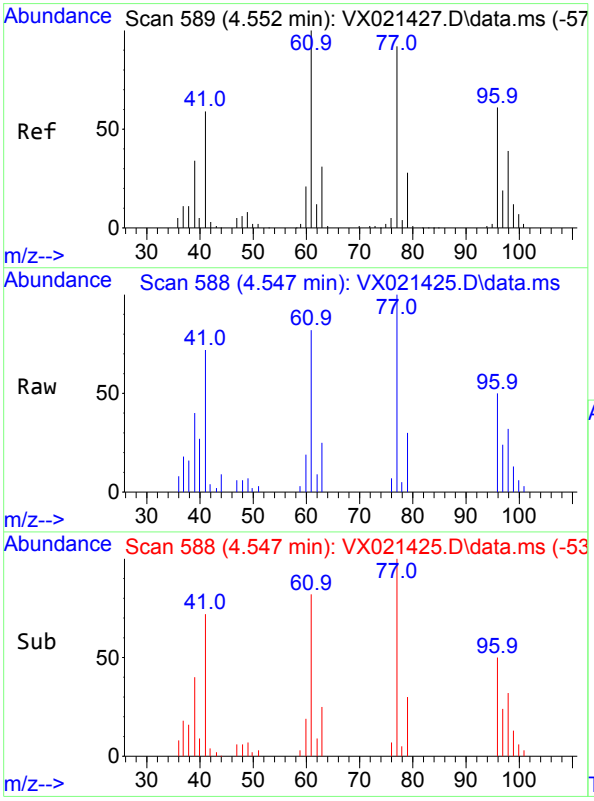


#25
2-Butanone
Concen: 27.07 ug/l
RT: 4.635 min Scan# 603
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 43 Resp: 18665

Ion	Ratio	Lower	Upper
43	100		
72	23.1	23.7	35.5#

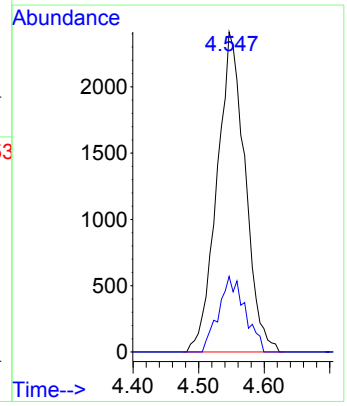




#26
2,2-Dichloropropane
Concen: 5.12 ug/l
RT: 4.547 min Scan# 588
Delta R.T. -0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

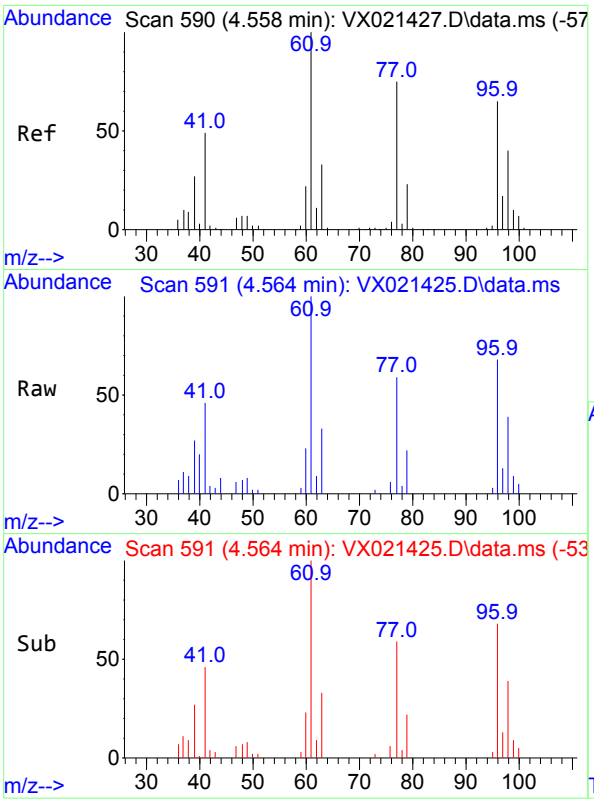
Tgt Ion: 77 Resp: 7167

Ion	Ratio	Lower	Upper
77	100		
97	22.2	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

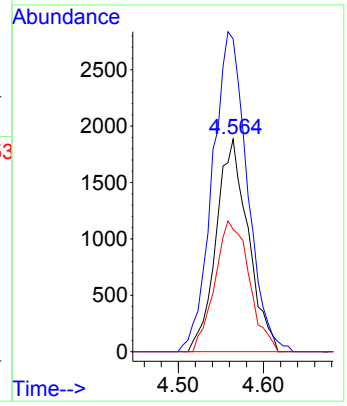
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

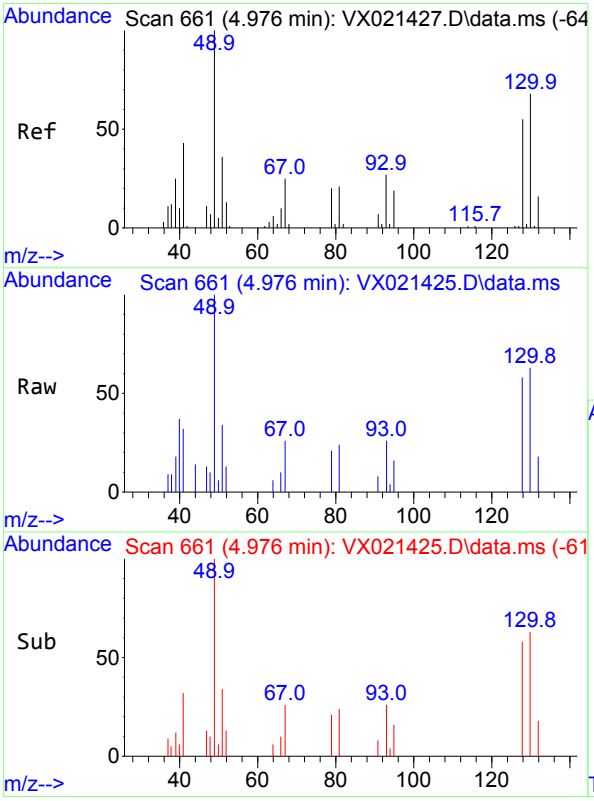


#27
cis-1,2-Dichloroethene
Concen: 5.09 ug/l
RT: 4.564 min Scan# 591
Delta R.T. 0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 96 Resp: 4917

Ion	Ratio	Lower	Upper
96	100		
61	163.8	0.0	285.6
98	65.8	0.0	129.6

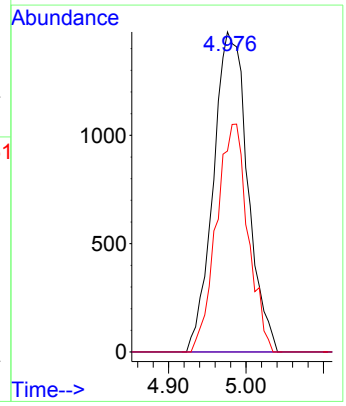




#28
Bromochloromethane
Concen: 5.99 ug/l
RT: 4.976 min Scan# 661
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

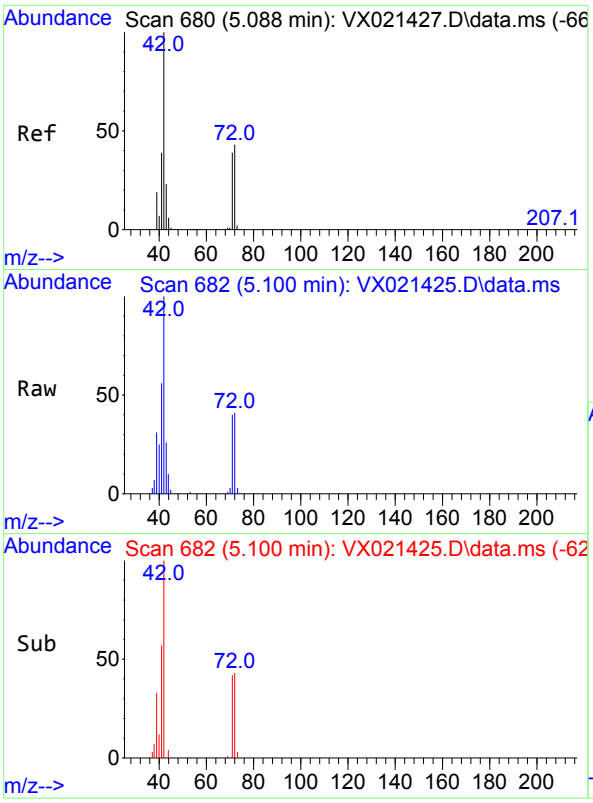
Tgt Ion: 49 Resp: 4554

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	65.7	68.2	102.2#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

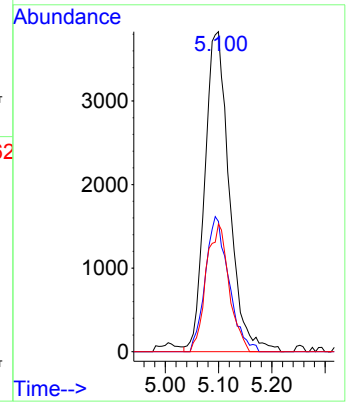
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

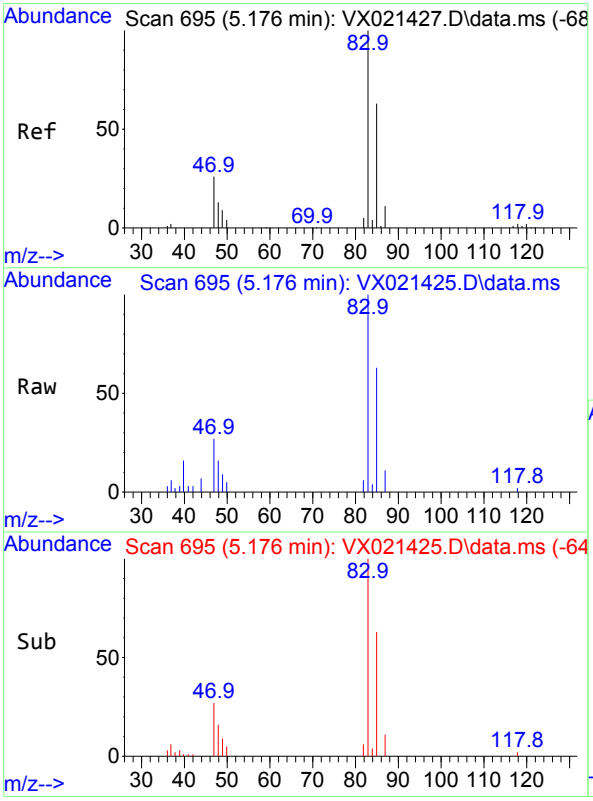


#29
Tetrahydrofuran
Concen: 26.83 ug/l
RT: 5.100 min Scan# 682
Delta R.T. 0.012 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 42 Resp: 12190

Ion	Ratio	Lower	Upper
42	100		
72	40.6	41.7	62.5#
71	37.1	38.4	57.6#

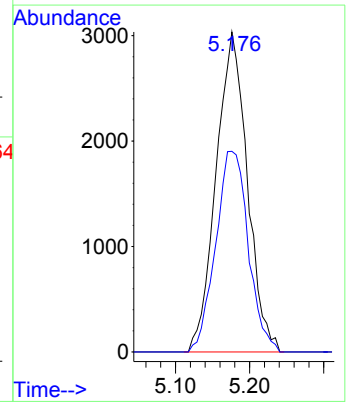




#30
Chloroform
Concen: 5.30 ug/l
RT: 5.176 min Scan# 695
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

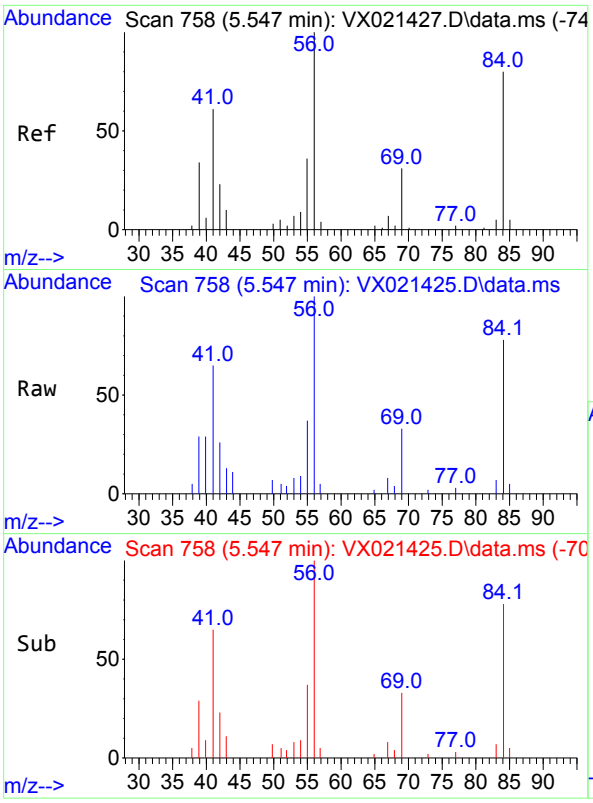
Tgt Ion: 83 Resp: 8881

Ion	Ratio	Lower	Upper
83	100		
85	62.7	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

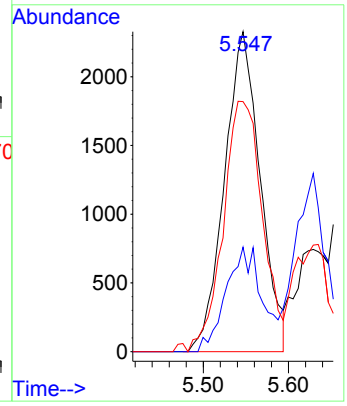
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

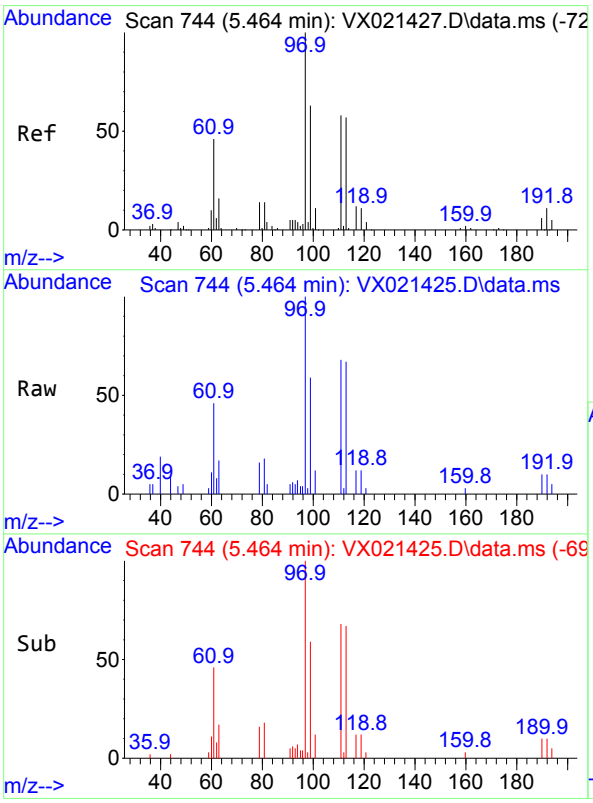


#31
Cyclohexane
Concen: 4.68 ug/l
RT: 5.547 min Scan# 758
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 56 Resp: 6790

Ion	Ratio	Lower	Upper
56	100		
69	32.6	25.3	37.9
84	75.6	71.4	107.0

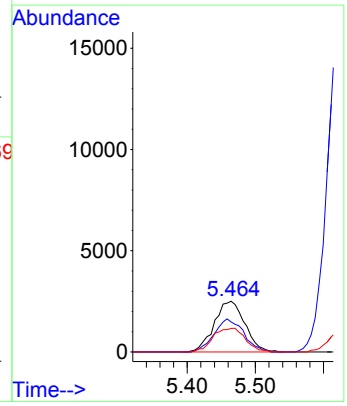




#32
1,1,1-Trichloroethane
Concen: 5.27 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

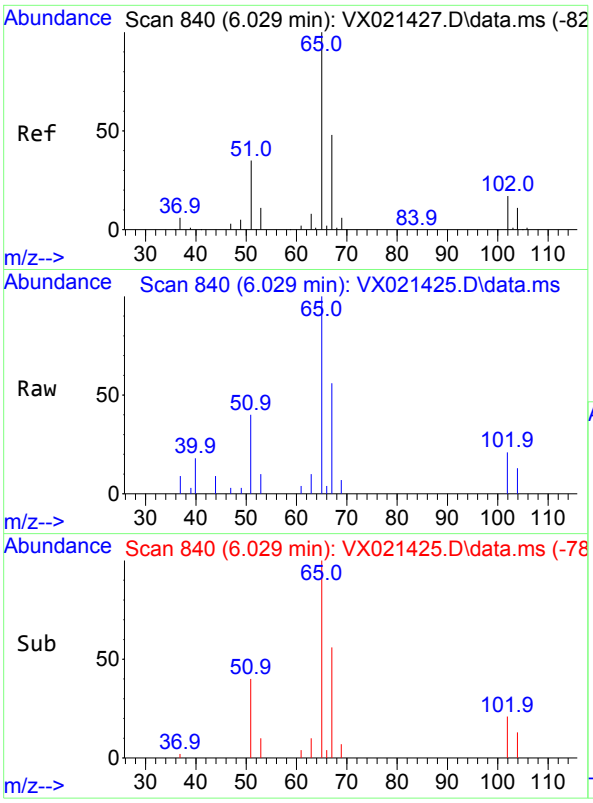
Tgt Ion: 97 Resp: 7832

Ion	Ratio	Lower	Upper
97	100		
99	62.7	51.5	77.3
61	49.2	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

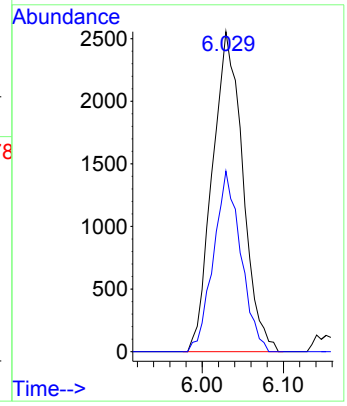
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

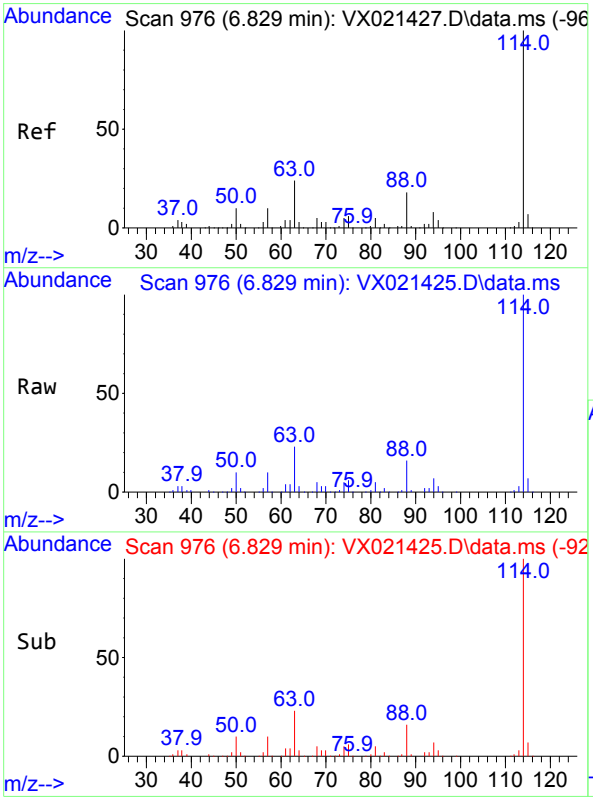


#33
1,2-Dichloroethane-d4
Concen: 5.47 ug/l
RT: 6.029 min Scan# 840
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 65 Resp: 6653

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	105.4

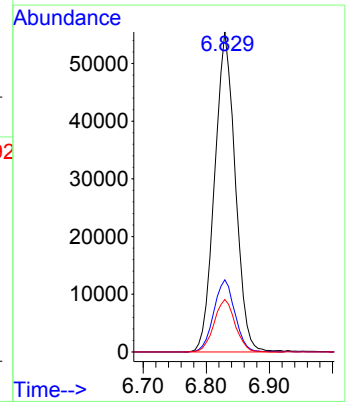




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

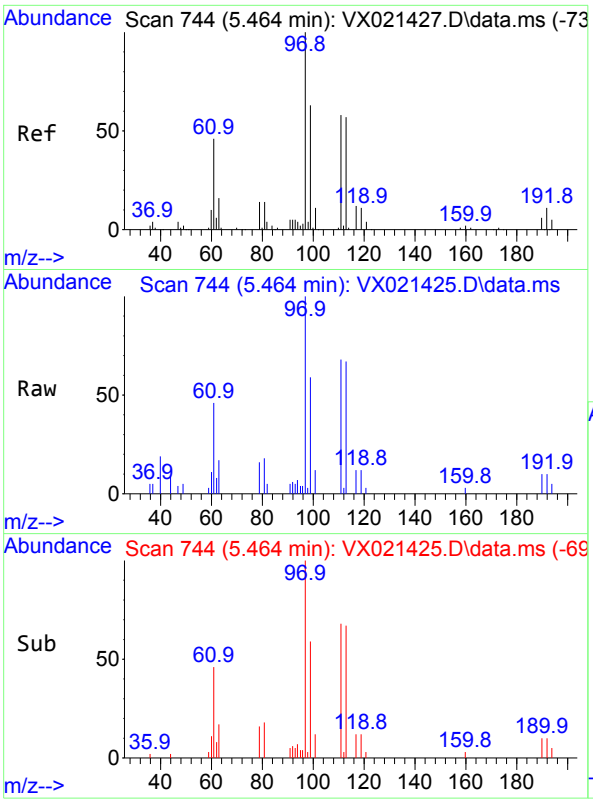
Tgt Ion:114 Resp: 125797

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	40.8
88	16.4	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

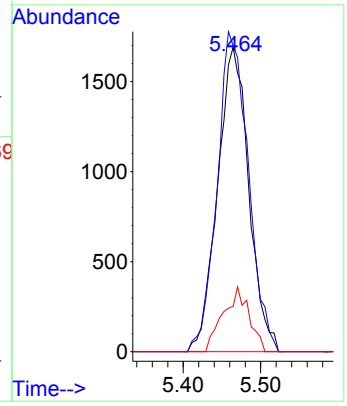
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

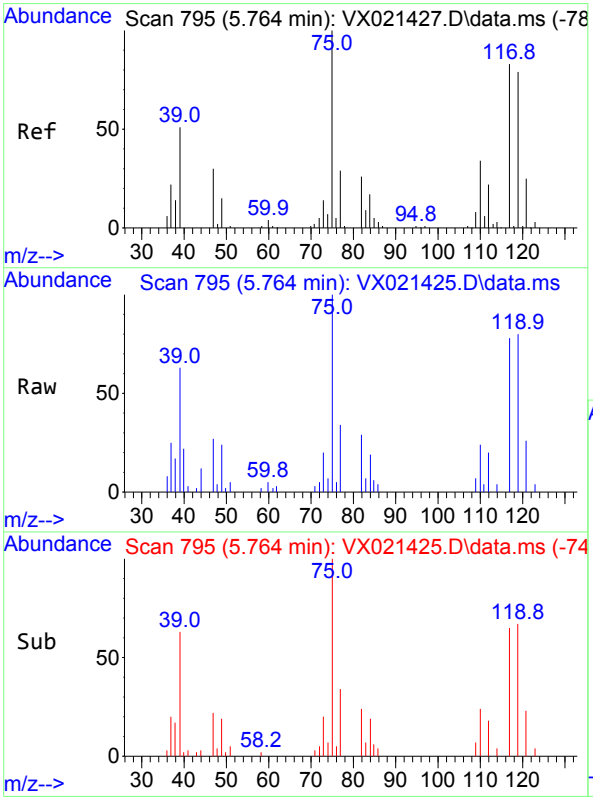


#35
Dibromofluoromethane
Concen: 5.53 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:113 Resp: 4745

Ion	Ratio	Lower	Upper
113	100		
111	104.6	81.9	122.9
192	17.5	16.7	25.1

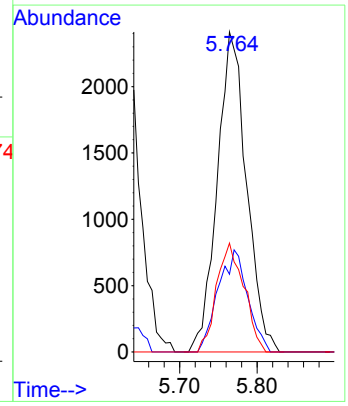




#36
1,1-Dichloropropene
Concen: 5.03 ug/l
RT: 5.764 min Scan# 795
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

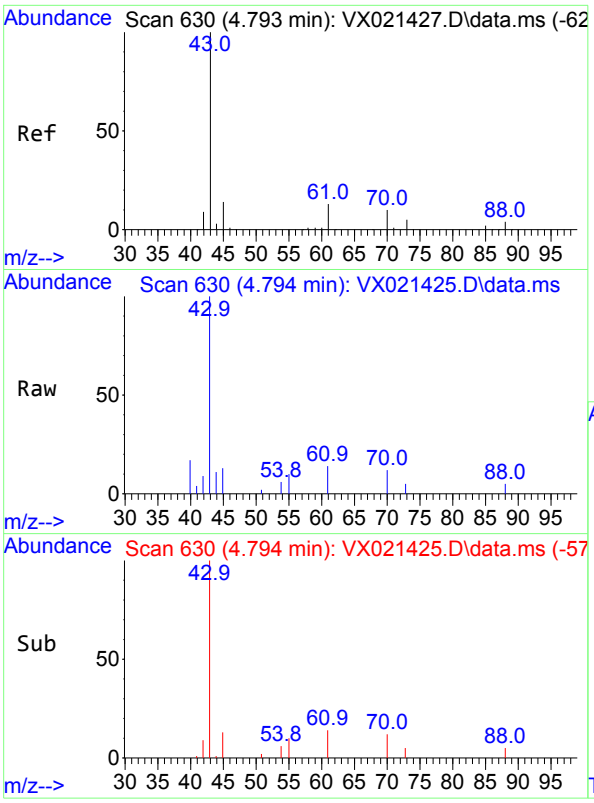
Tgt Ion: 75 Resp: 6344

Ion	Ratio	Lower	Upper
75	100		
110	32.3	18.1	54.4
77	31.9	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

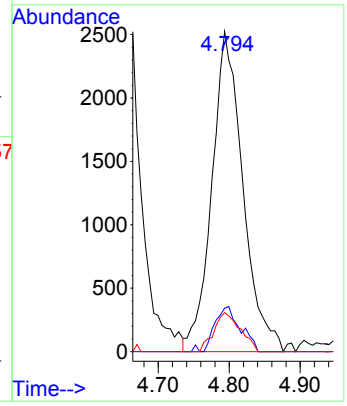
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

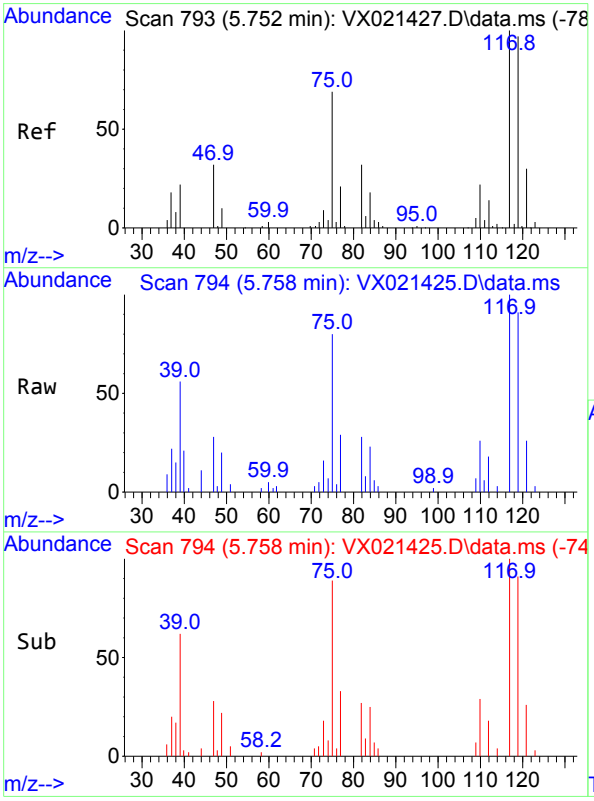


#37
Ethyl Acetate
Concen: 5.24 ug/l
RT: 4.794 min Scan# 630
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 43 Resp: 7648

Ion	Ratio	Lower	Upper
43	100		
61	11.5	12.8	19.2#
70	10.4	10.5	15.7#

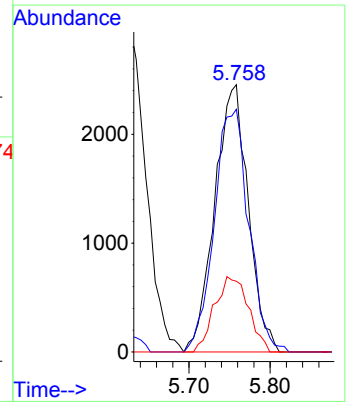




#38
Carbon Tetrachloride
Concen: 5.36 ug/l
RT: 5.758 min Scan# 794
Delta R.T. 0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

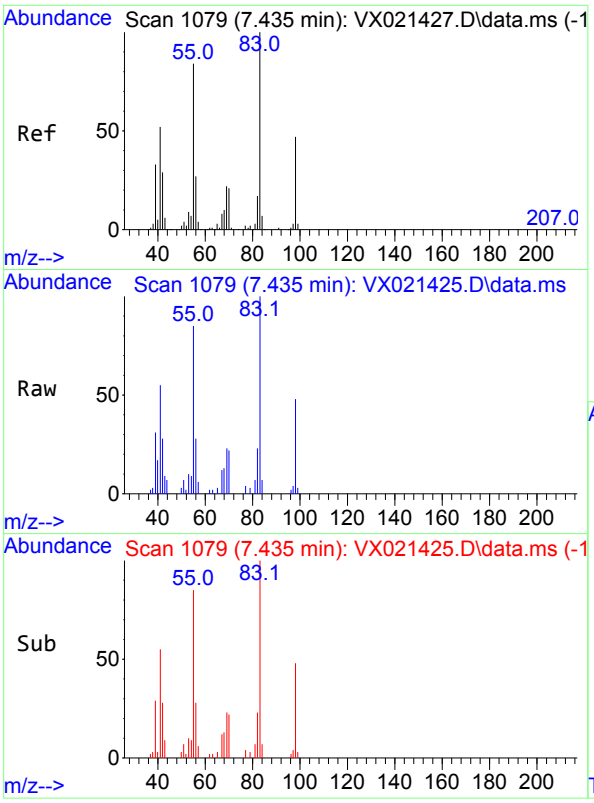
Tgt Ion:117 Resp: 7040

Ion	Ratio	Lower	Upper
117	100		
119	90.8	76.2	114.2
121	26.5	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

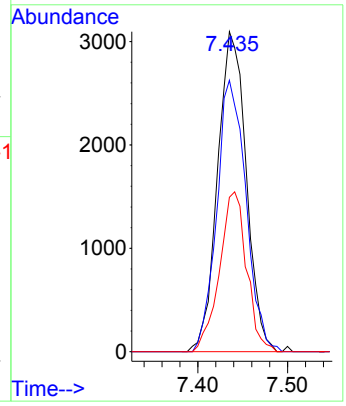
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

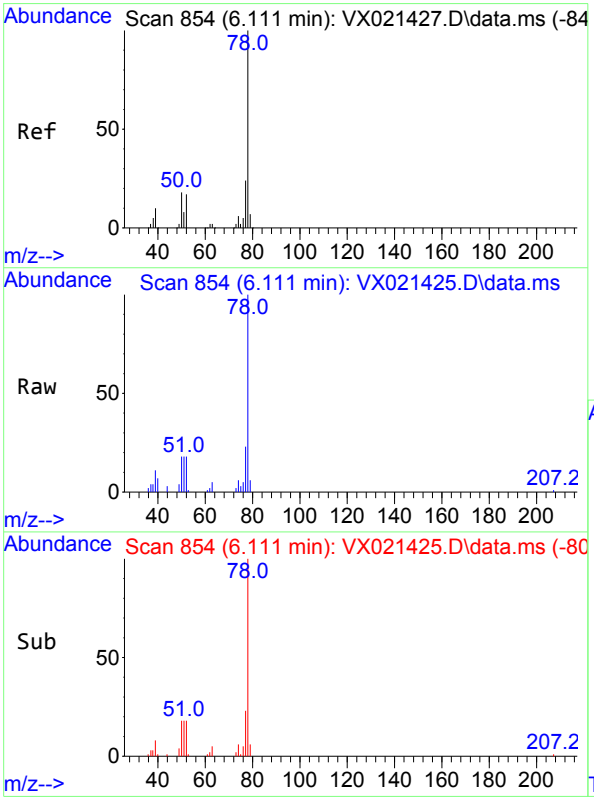


#39
Methylcyclohexane
Concen: 4.89 ug/l
RT: 7.435 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 83 Resp: 6855

Ion	Ratio	Lower	Upper
83	100		
55	84.8	58.9	88.3
98	48.3	38.1	57.1

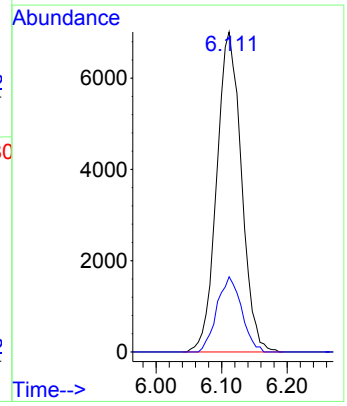




#40
Benzene
Concen: 5.26 ug/l
RT: 6.111 min Scan# 854
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

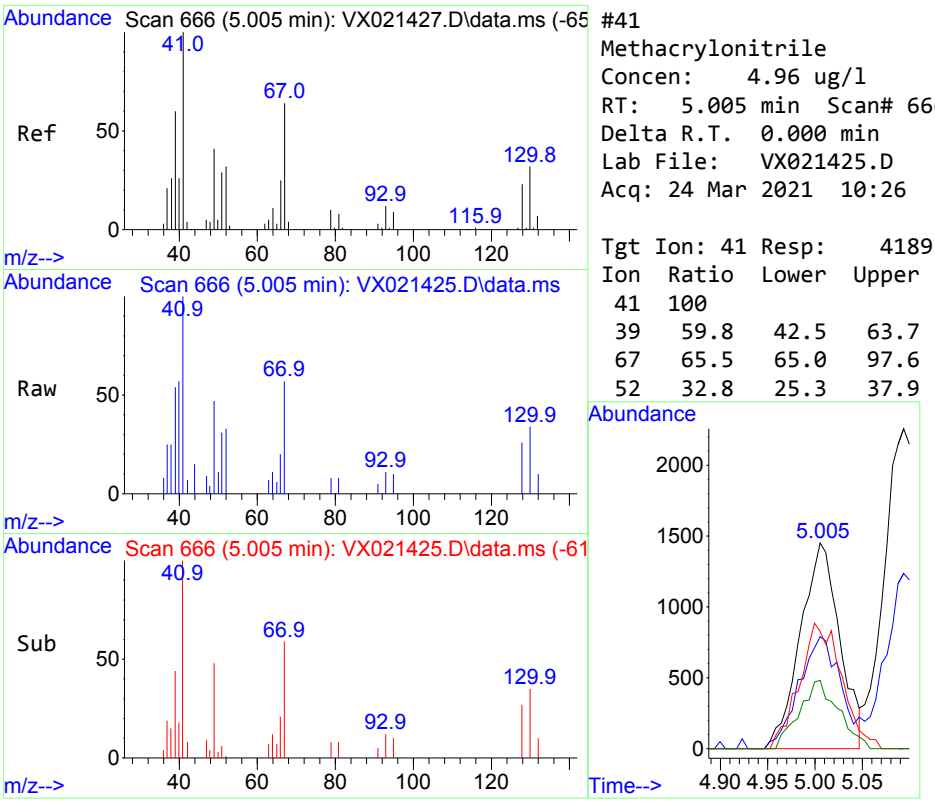
Tgt Ion: 78 Resp: 18322

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

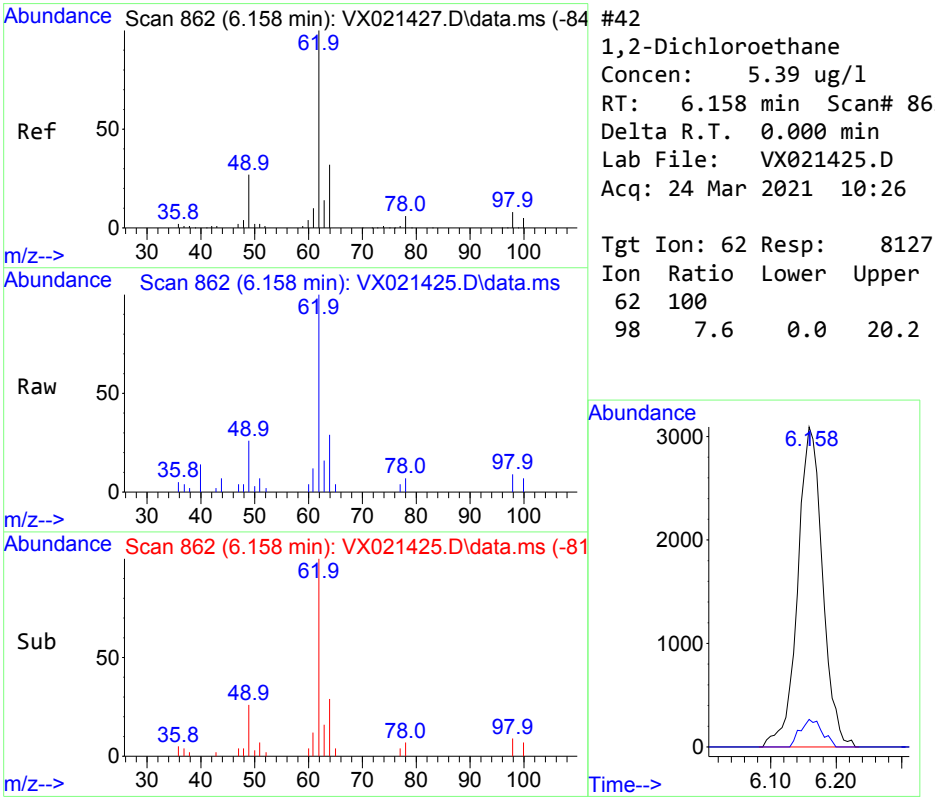
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM



#41
Methacrylonitrile
Concen: 4.96 ug/l
RT: 5.005 min Scan# 666
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 41 Resp: 4189

Ion	Ratio	Lower	Upper
41	100		
39	59.8	42.5	63.7
67	65.5	65.0	97.6
52	32.8	25.3	37.9



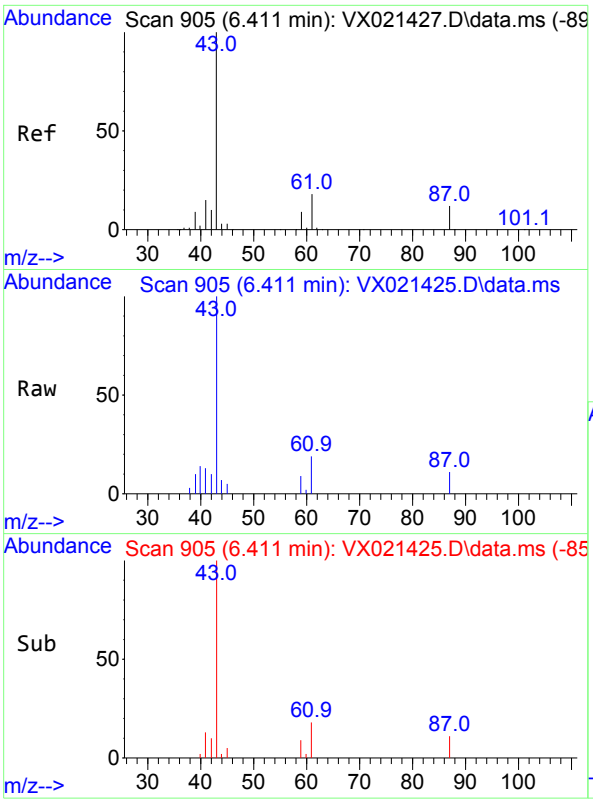
#42
1,2-Dichloroethane
Concen: 5.39 ug/l
RT: 6.158 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 62 Resp: 8127

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	20.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

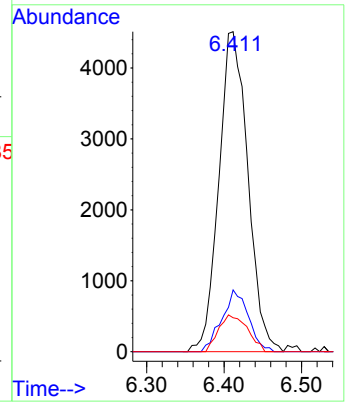
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

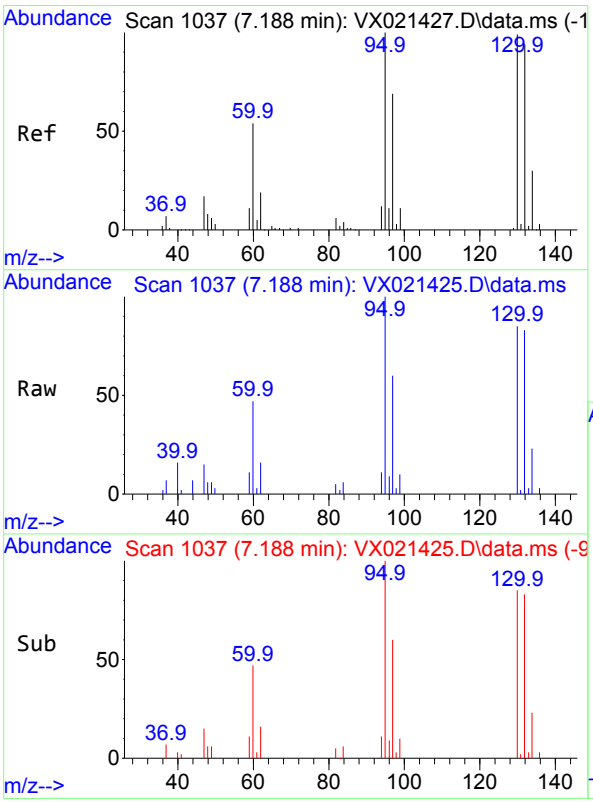


#43
Isopropyl Acetate
Concen: 4.91 ug/l
RT: 6.411 min Scan# 905
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 43 Resp: 11744

Ion	Ratio	Lower	Upper
43	100		
61	17.6	18.2	27.4#
87	11.4	12.5	18.7#

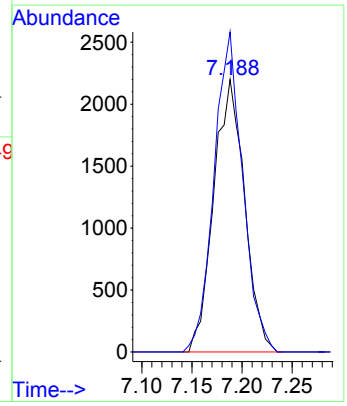




#44
Trichloroethene
Concen: 5.09 ug/l
RT: 7.188 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

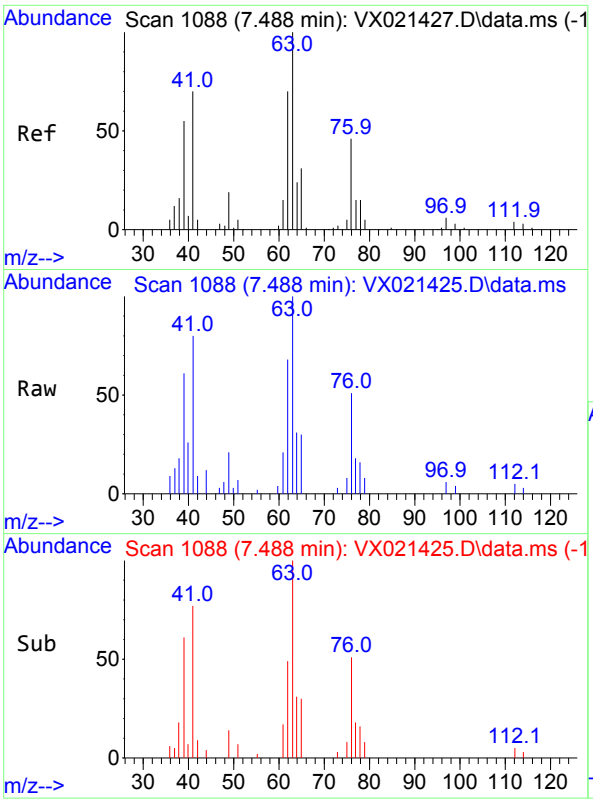
Tgt Ion:130 Resp: 4703

Ion	Ratio	Lower	Upper
130	100		
95	117.4	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

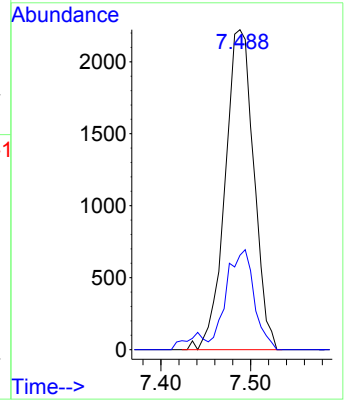
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

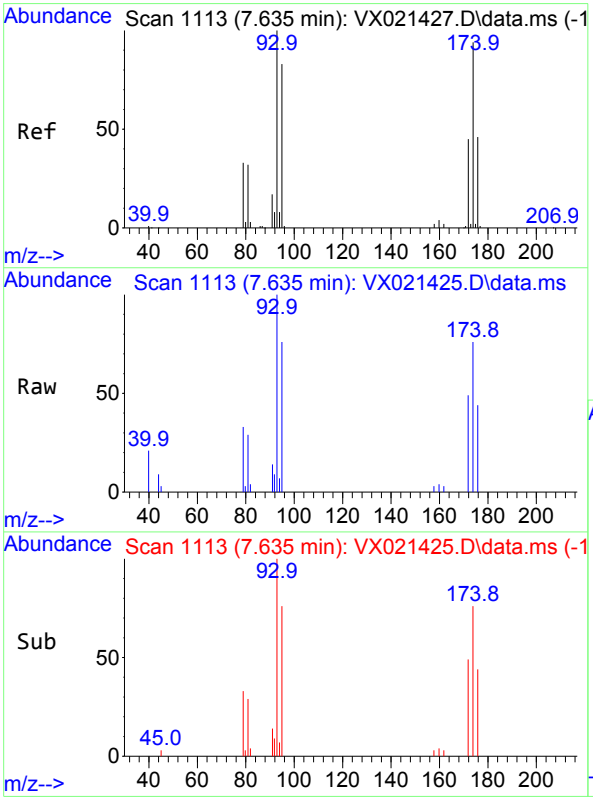


#45
1,2-Dichloropropane
Concen: 5.26 ug/l
RT: 7.488 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 63 Resp: 4936

Ion	Ratio	Lower	Upper
63	100		
65	29.5	25.7	38.5

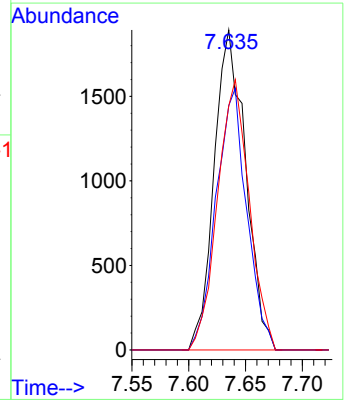




#46
Dibromomethane
Concen: 5.29 ug/l
RT: 7.635 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

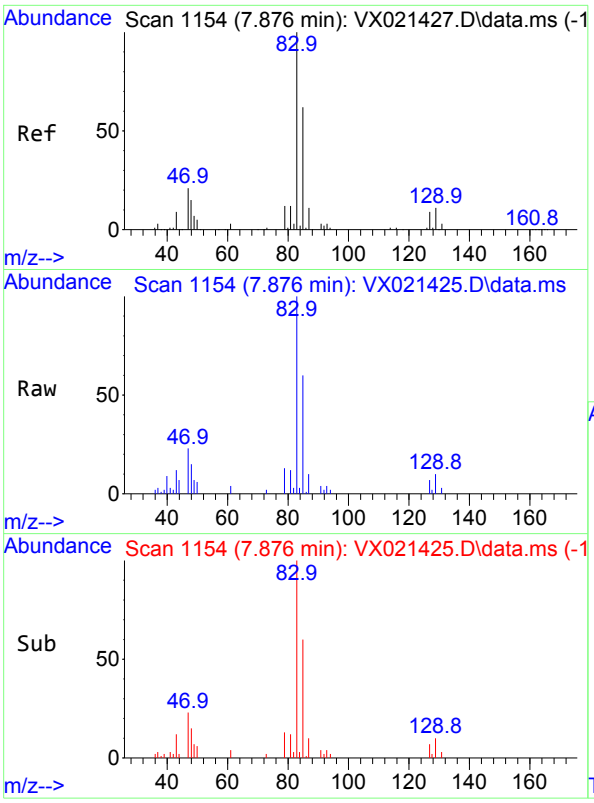
Tgt Ion: 93 Resp: 3645

Ion	Ratio	Lower	Upper
93	100		
95	79.9	66.8	100.2
174	85.2	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

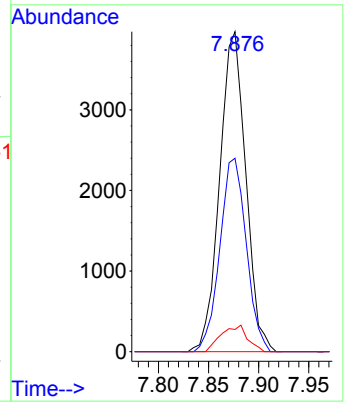
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

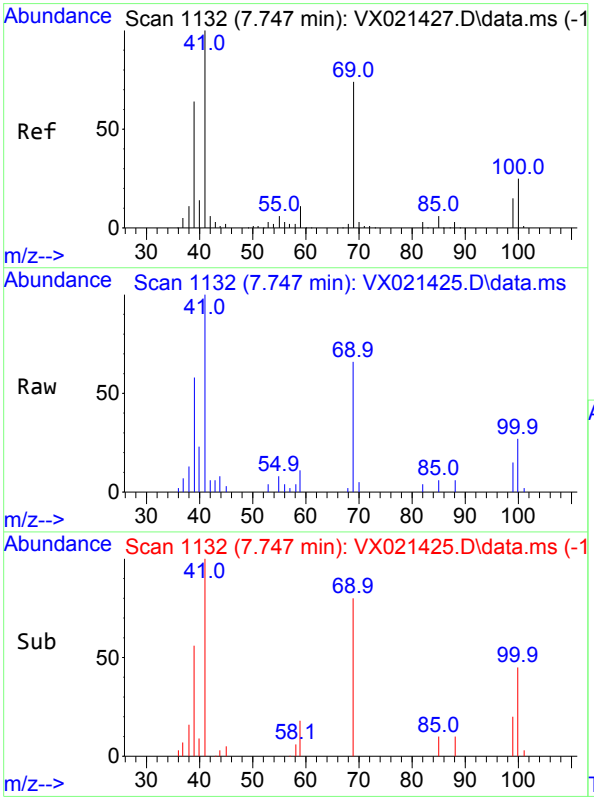


#47
Bromodichloromethane
Concen: 5.21 ug/l
RT: 7.876 min Scan# 1154
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 83 Resp: 7172

Ion	Ratio	Lower	Upper
83	100		
85	60.4	51.4	77.0
127	7.0	6.8	10.2

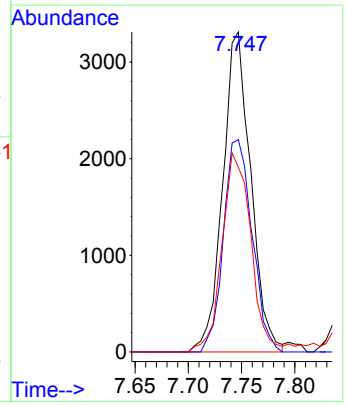




#48
Methyl methacrylate
Concen: 4.74 ug/l
RT: 7.747 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

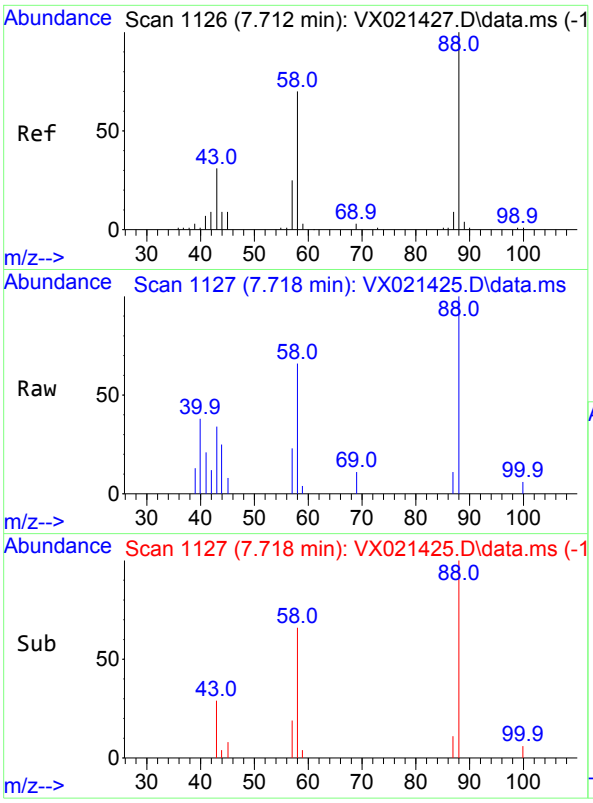
Tgt Ion: 41 Resp: 6054

Ion	Ratio	Lower	Upper
41	100		
69	67.8	76.0	114.0#
39	63.8	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

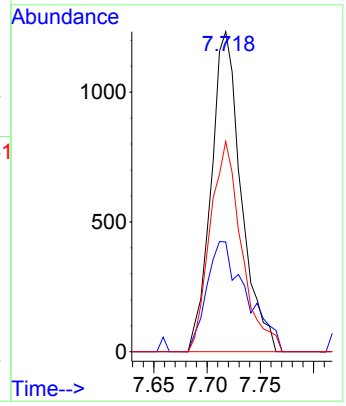
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

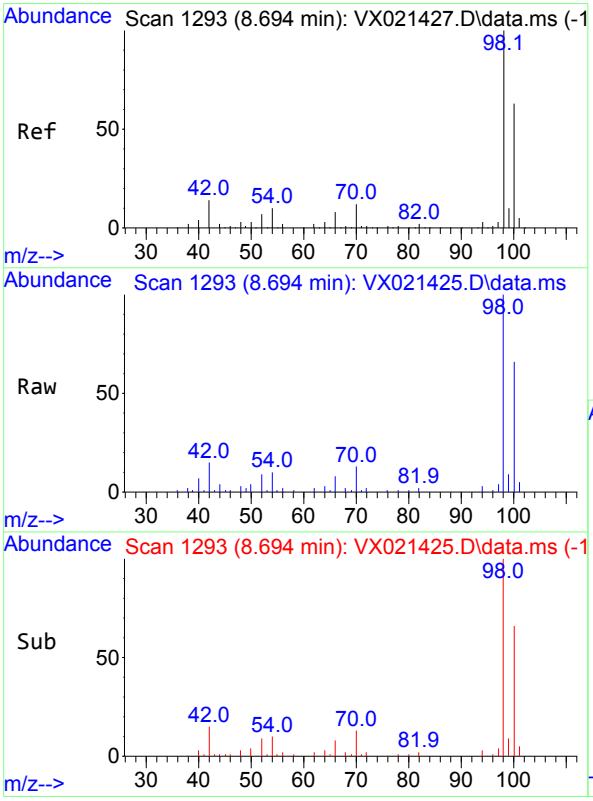


#49
1,4-Dioxane
Concen: 101.83 ug/l
RT: 7.718 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 88 Resp: 2411

Ion	Ratio	Lower	Upper
88	100		
43	45.8	23.2	34.8#
58	69.1	55.0	82.4

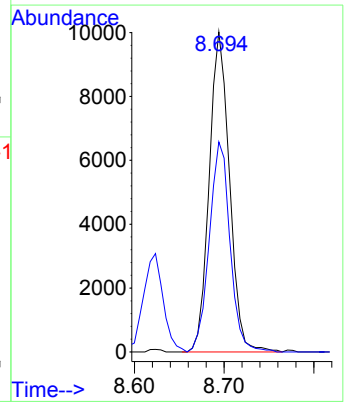




#50
Toluene-d8
Concen: 5.03 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

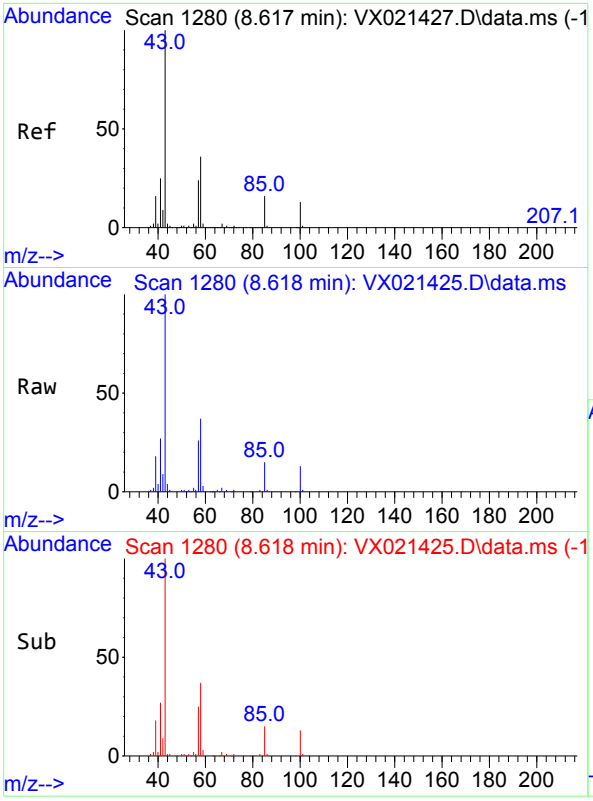
Tgt Ion: 98 Resp: 15711

Ion	Ratio	Lower	Upper
98	100		
100	67.3	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

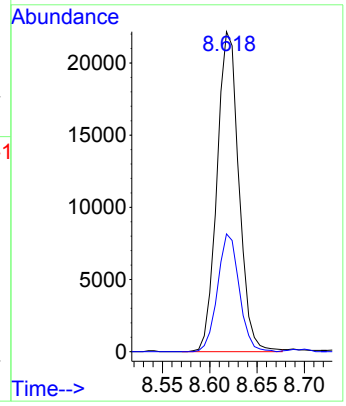
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

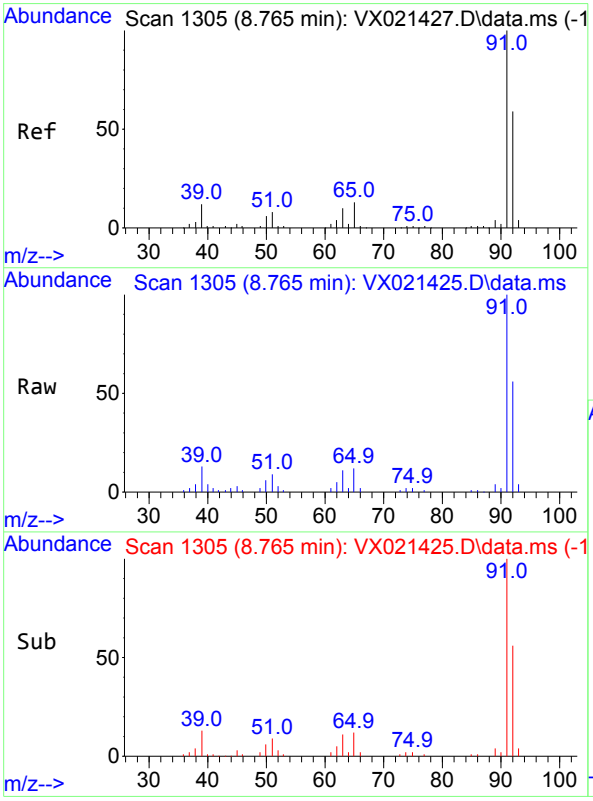


#51
4-Methyl-2-Pentanone
Concen: 25.40 ug/l
RT: 8.618 min Scan# 1280
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 43 Resp: 35718

Ion	Ratio	Lower	Upper
43	100		
58	36.3	35.4	53.0

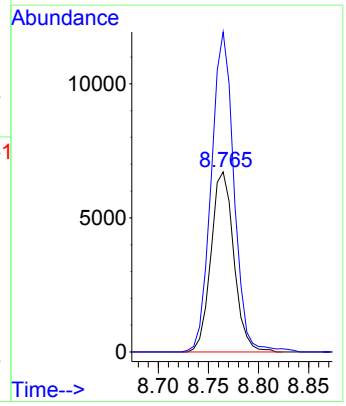




#52
Toluene
Concen: 4.94 ug/l
RT: 8.765 min Scan# 1305
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

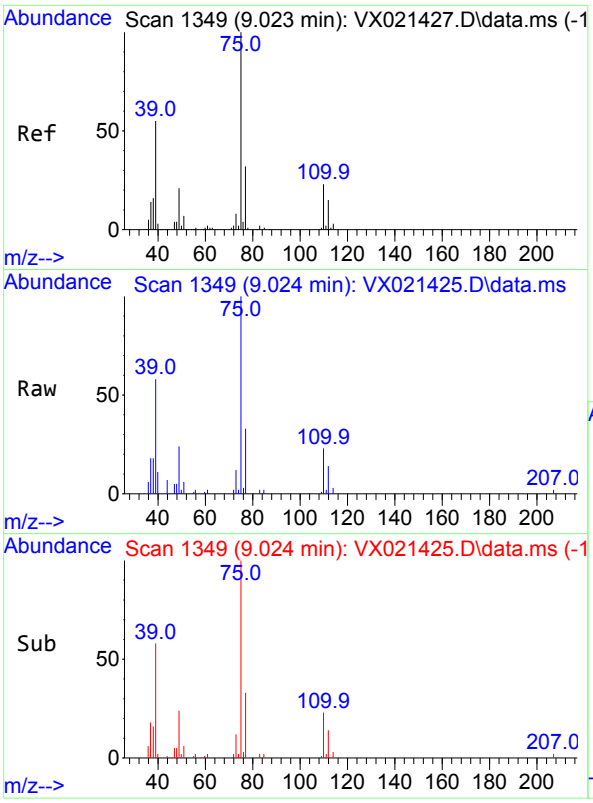
Tgt Ion: 92 Resp: 10654

Ion	Ratio	Lower	Upper
92	100		
91	176.4	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

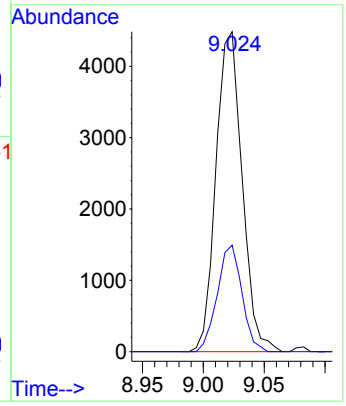
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

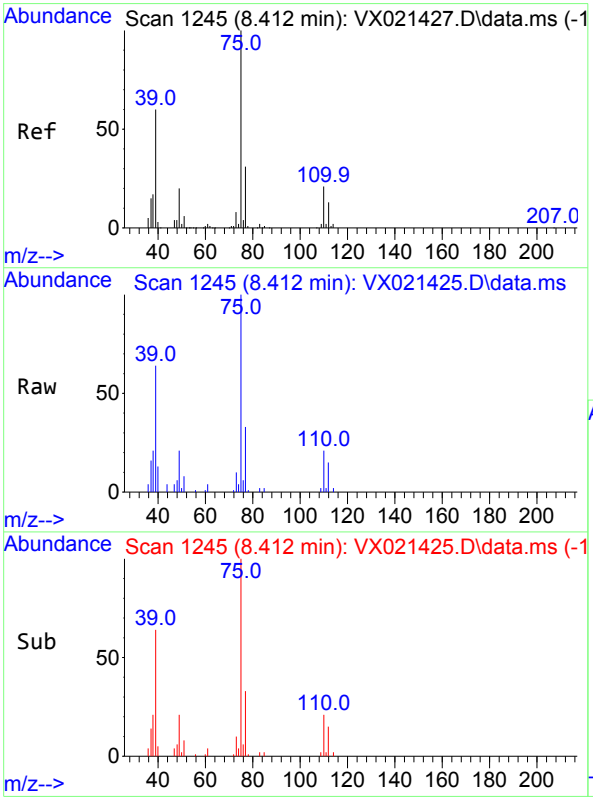


#53
t-1,3-Dichloropropene
Concen: 4.60 ug/l
RT: 9.024 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 75 Resp: 6709

Ion	Ratio	Lower	Upper
75	100		
77	33.3	24.9	37.3

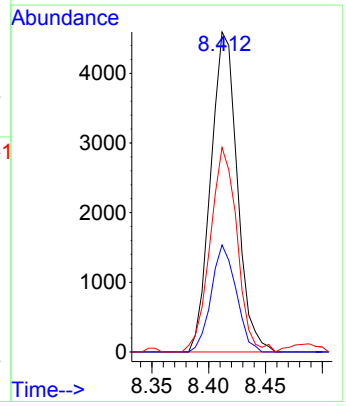




#54
cis-1,3-Dichloropropene
Concen: 4.80 ug/l
RT: 8.412 min Scan# 1245
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

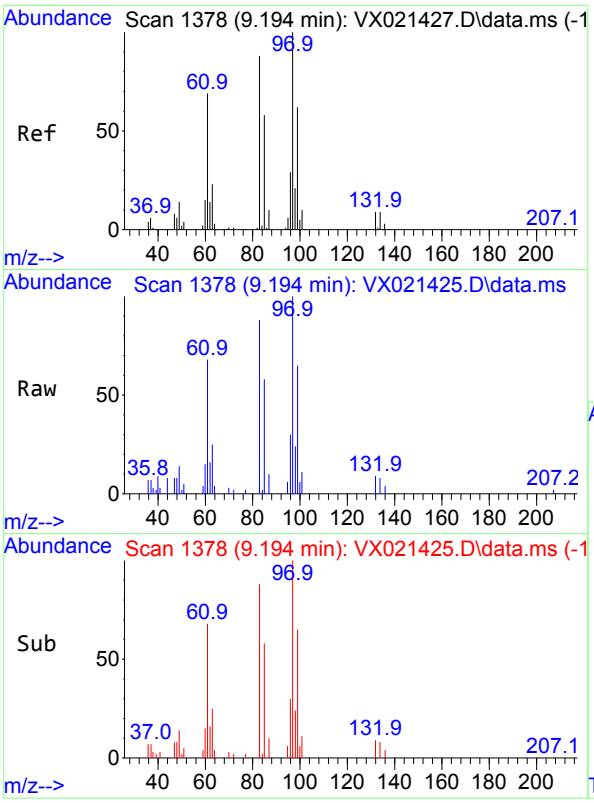
Tgt Ion: 75 Resp: 7453

Ion	Ratio	Lower	Upper
75	100		
77	33.5	25.7	38.5
39	63.9	35.1	52.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

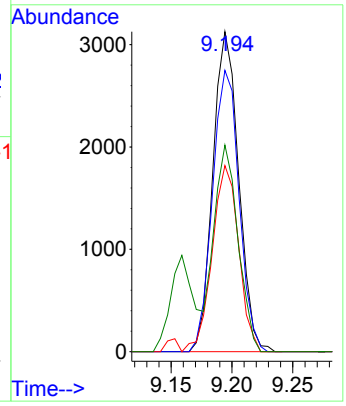
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

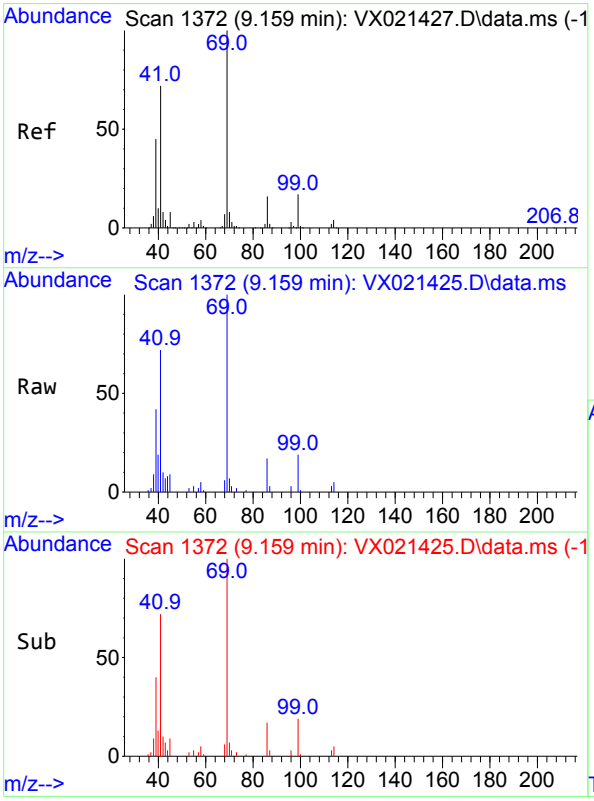


#55
1,1,2-Trichloroethane
Concen: 5.19 ug/l
RT: 9.194 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 97 Resp: 4600

Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.3	103.9
85	58.2	44.3	66.5
99	64.5	50.3	75.5

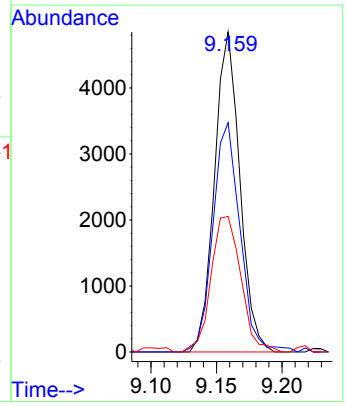




#56
Ethyl methacrylate
Concen: 4.60 ug/l
RT: 9.159 min Scan# 1372
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

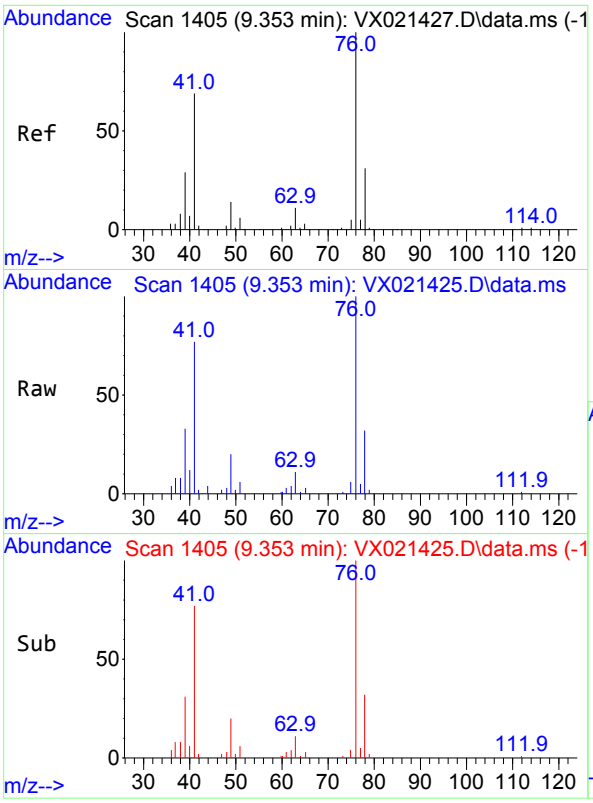
Tgt Ion: 69 Resp: 6520

Ion	Ratio	Lower	Upper
69	100		
41	76.9	46.8	70.2#
39	49.8	24.7	37.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

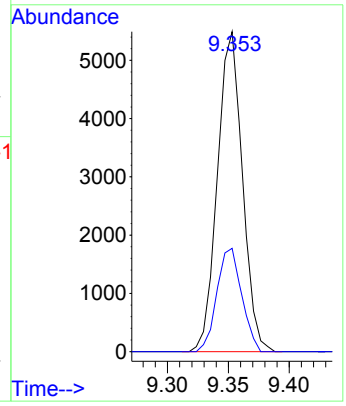
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

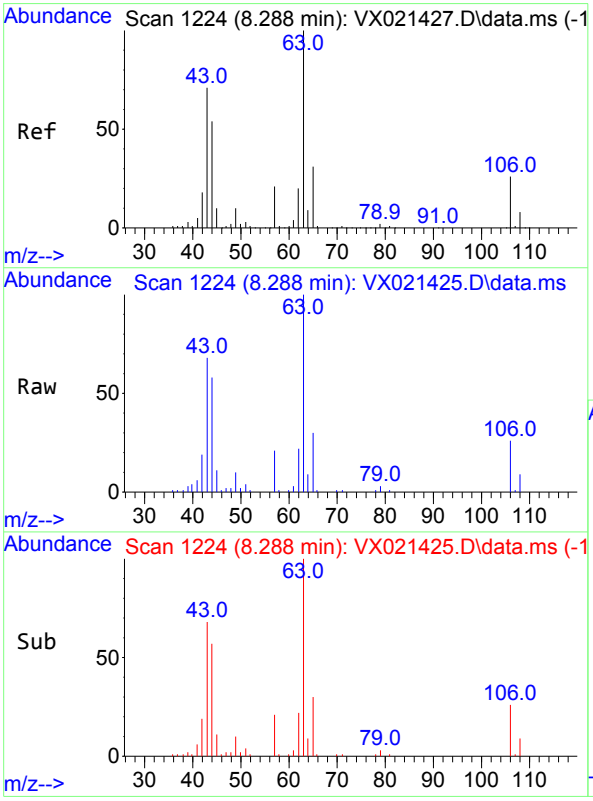


#57
1,3-Dichloropropane
Concen: 5.08 ug/l
RT: 9.353 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 76 Resp: 7840

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.2

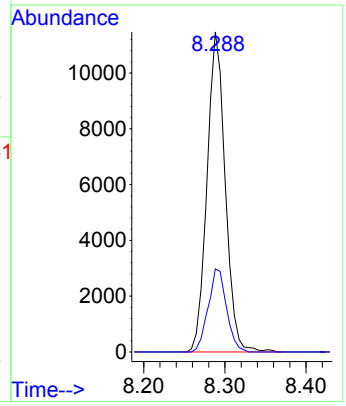




#58
2-Chloroethyl Vinyl ether
Concen: 22.84 ug/l
RT: 8.288 min Scan# 1224
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

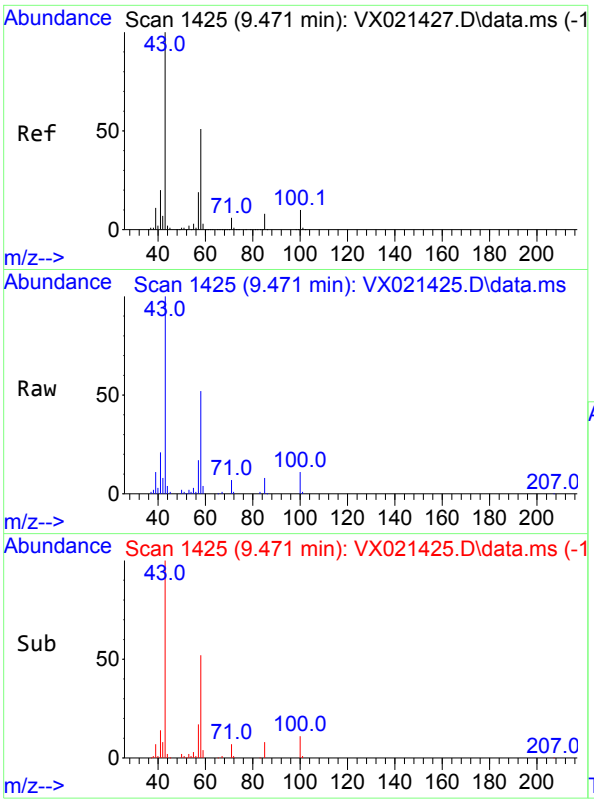
Tgt Ion: 63 Resp: 17847

Ion	Ratio	Lower	Upper
63	100		
106	26.2	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

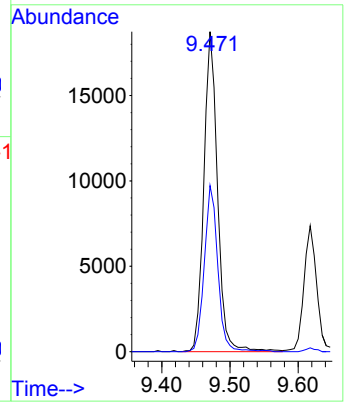
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

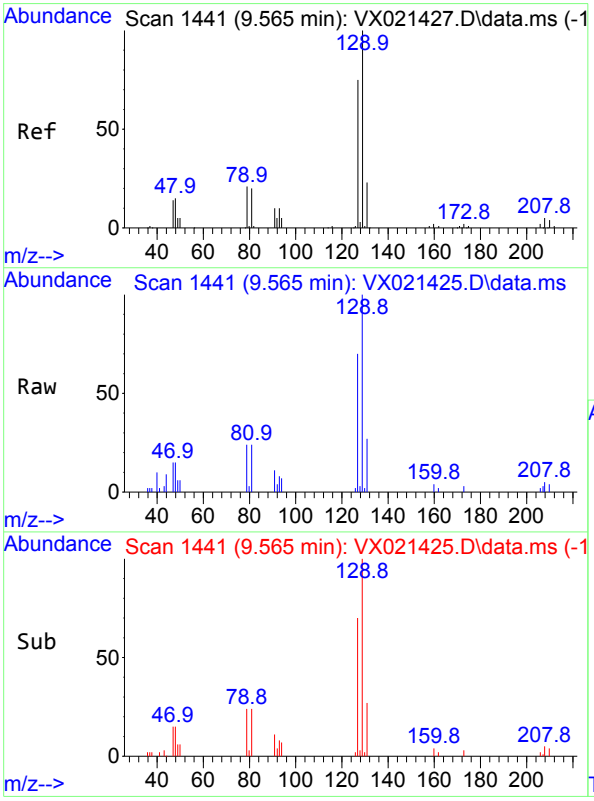


#59
2-Hexanone
Concen: 24.82 ug/l
RT: 9.471 min Scan# 1425
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 43 Resp: 26107

Ion	Ratio	Lower	Upper
43	100		
58	51.0	30.9	92.8

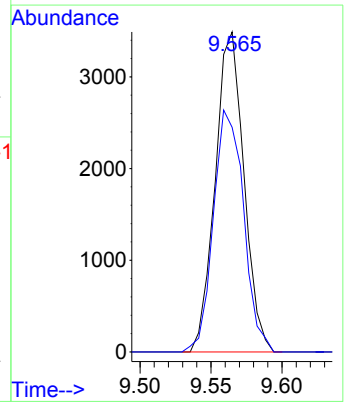




#60
Dibromochloromethane
Concen: 4.87 ug/l
RT: 9.565 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

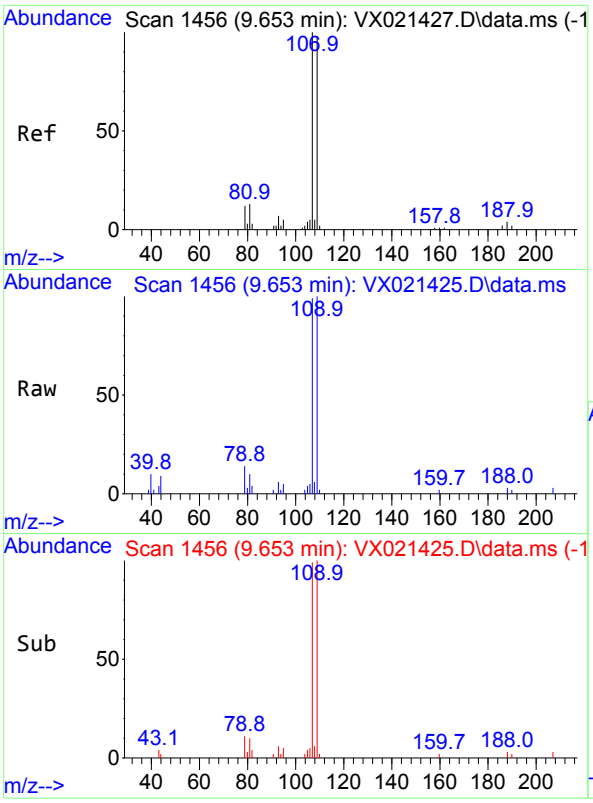
Tgt Ion:129 Resp: 4909

Ion	Ratio	Lower	Upper
129	100		
127	79.4	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

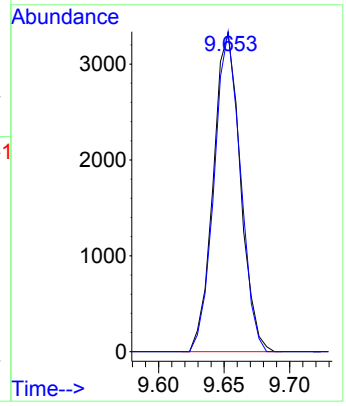
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

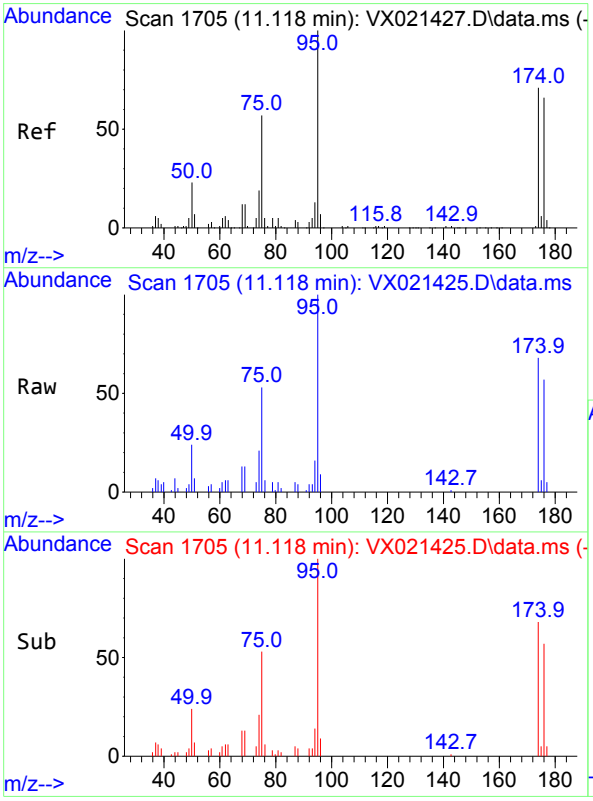


#61
1,2-Dibromoethane
Concen: 4.91 ug/l
RT: 9.653 min Scan# 1456
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:107 Resp: 4785

Ion	Ratio	Lower	Upper
107	100		
109	97.1	75.8	113.6

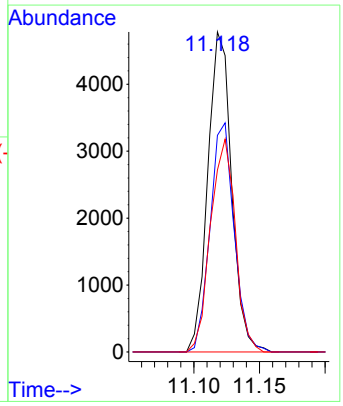




#62
4-Bromofluorobenzene
Concen: 4.99 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

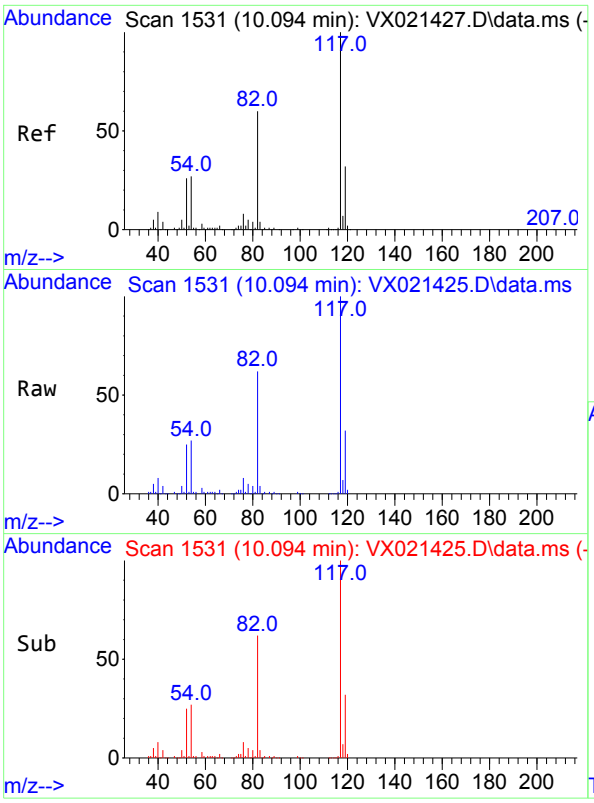
Tgt Ion: 95 Resp: 6021

Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	154.6
176	69.4	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

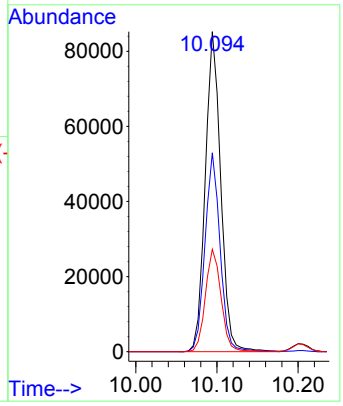
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

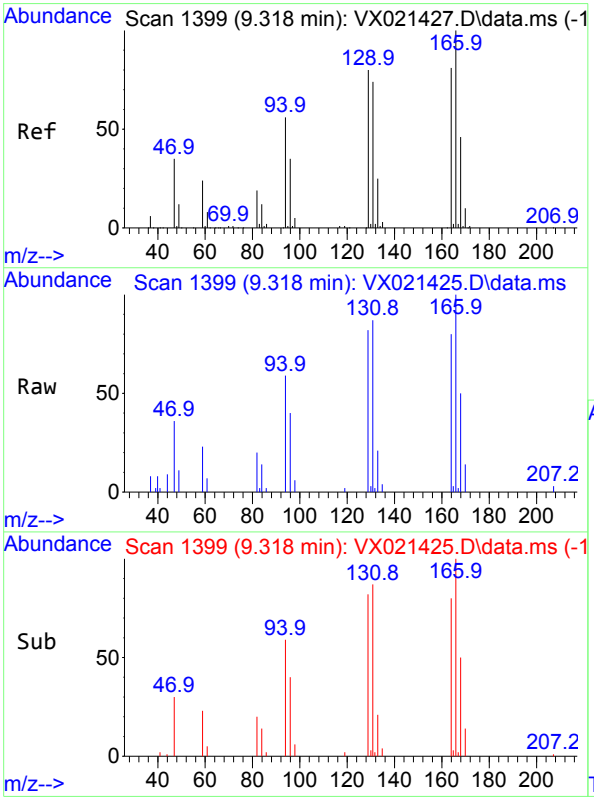


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:117 Resp: 112604

Ion	Ratio	Lower	Upper
117	100		
82	62.1	47.4	71.2
119	32.0	26.6	39.8

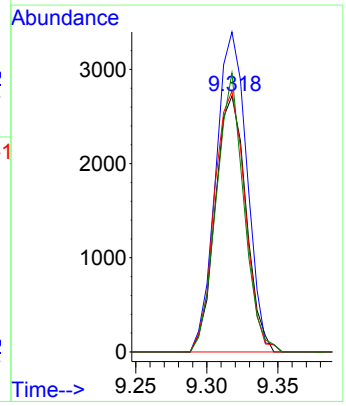




#64
Tetrachloroethene
Concen: 4.90 ug/l
RT: 9.318 min Scan# 1399
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

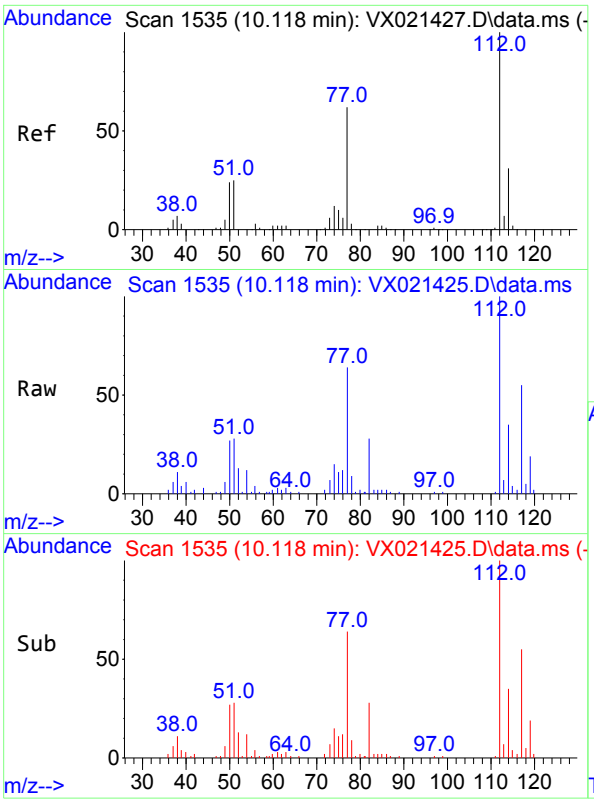
Tgt Ion:164 Resp: 4080

Ion	Ratio	Lower	Upper
164	100		
166	125.0	103.4	155.2
129	101.9	70.8	106.2
131	109.0	72.5	108.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

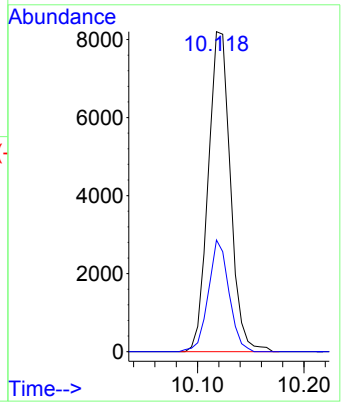
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

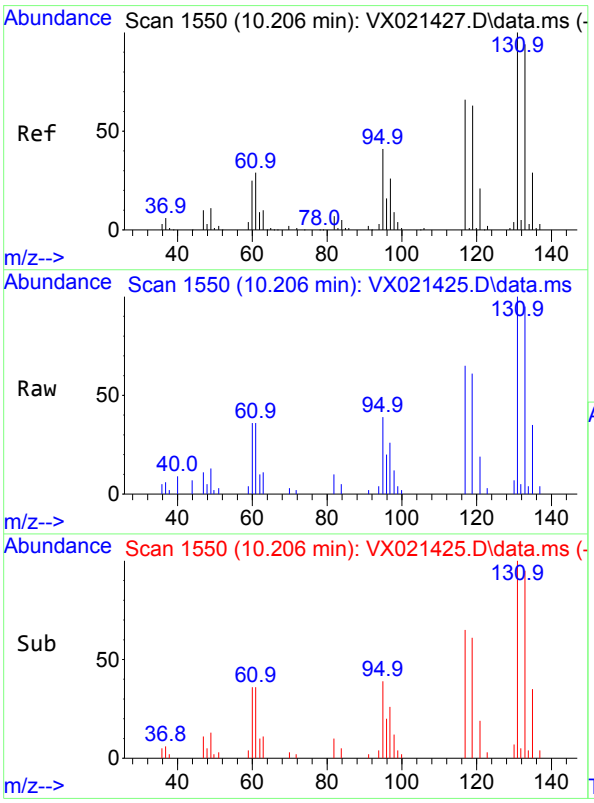


#65
Chlorobenzene
Concen: 5.12 ug/l
RT: 10.118 min Scan# 1535
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:112 Resp: 11854

Ion	Ratio	Lower	Upper
112	100		
114	34.9	25.8	38.6

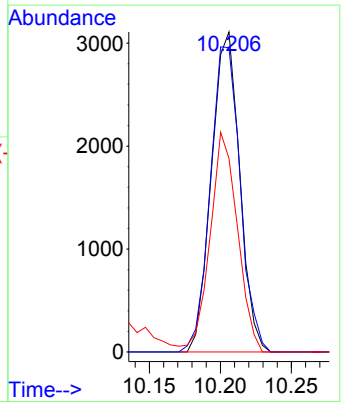




#66
1,1,1,2-Tetrachloroethane
Concen: 4.97 ug/l
RT: 10.206 min Scan# 1550
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

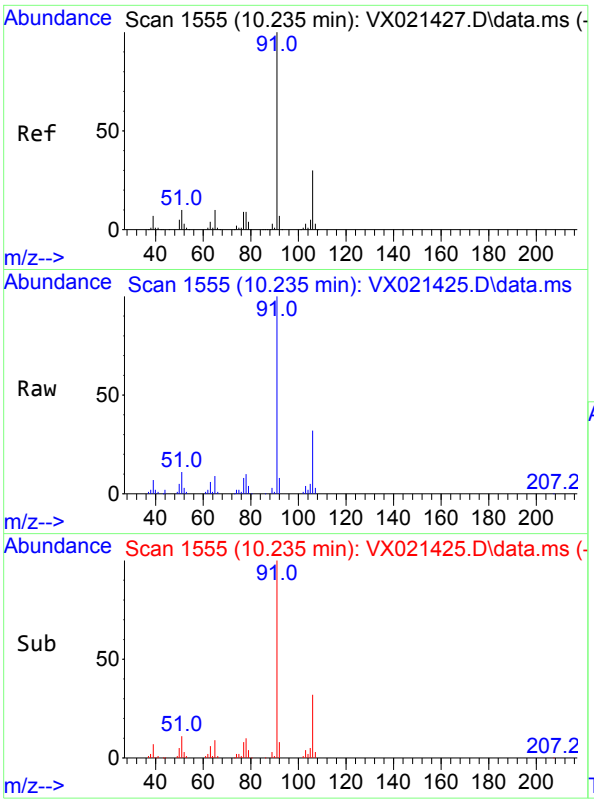
Tgt Ion:131 Resp: 4291

Ion	Ratio	Lower	Upper
131	100		
133	101.1	47.7	143.1
119	66.7	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

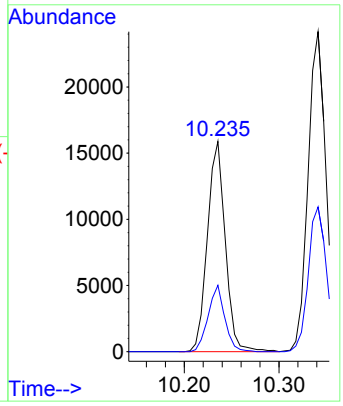
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

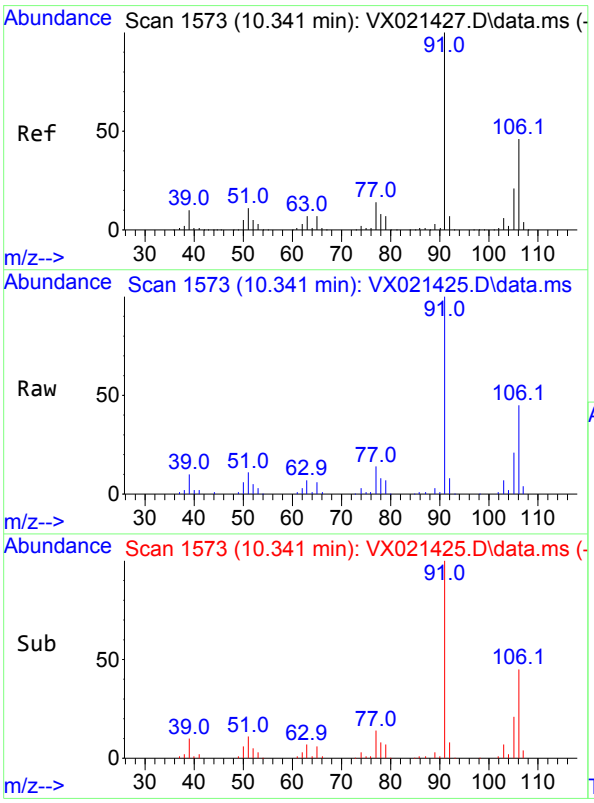


#67
Ethyl Benzene
Concen: 4.89 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 91 Resp: 20845

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.6	37.0

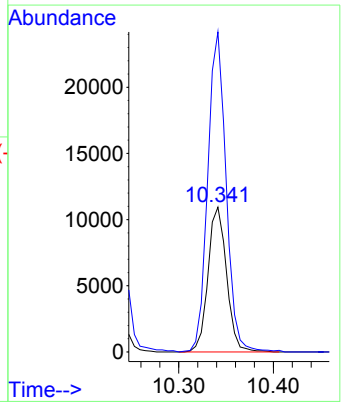




#68
m/p-Xylenes
Concen: 9.77 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

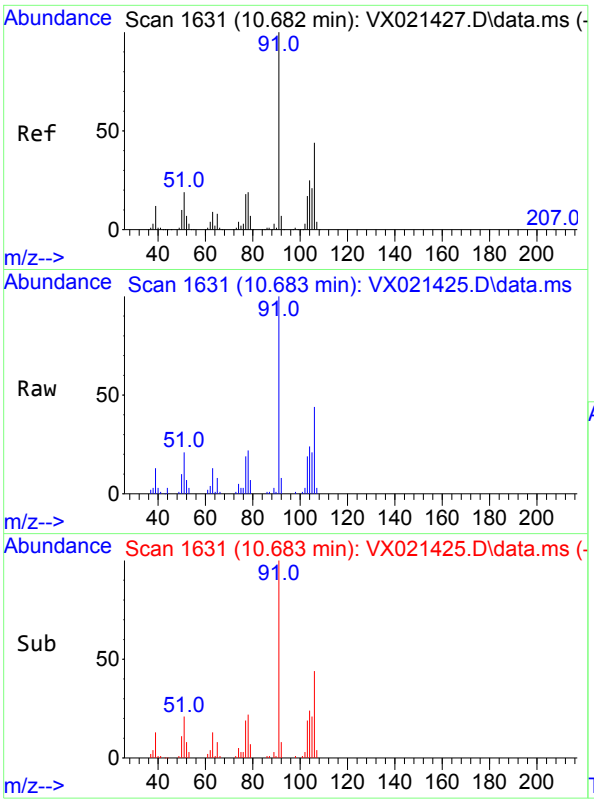
Tgt Ion:106 Resp: 14901

Ion	Ratio	Lower	Upper
106	100		
91	218.3	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

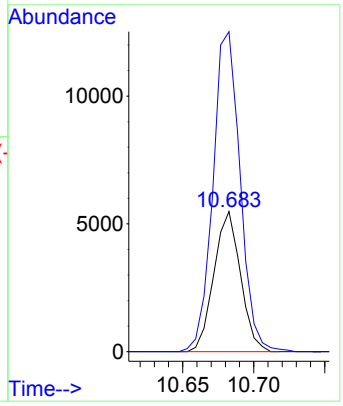
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

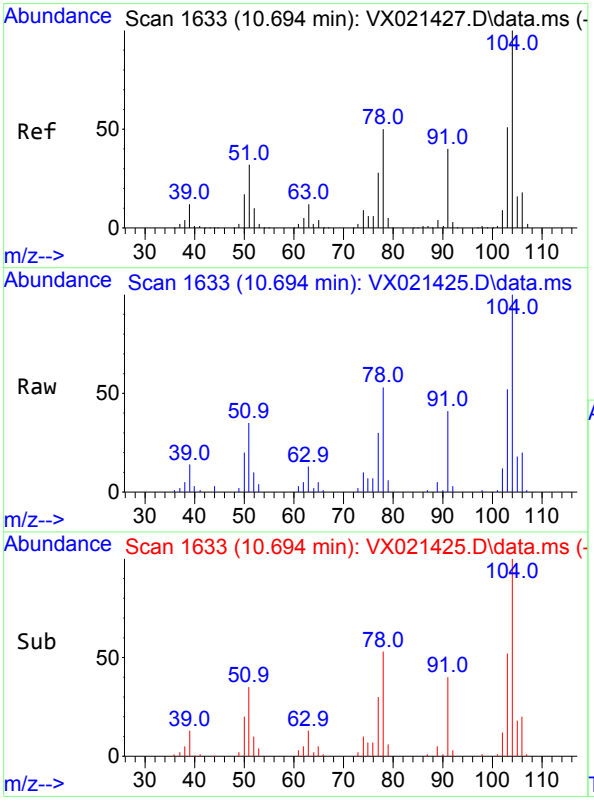


#69
o-Xylene
Concen: 4.82 ug/l
RT: 10.683 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:106 Resp: 7137

Ion	Ratio	Lower	Upper
106	100		
91	233.4	108.1	324.2

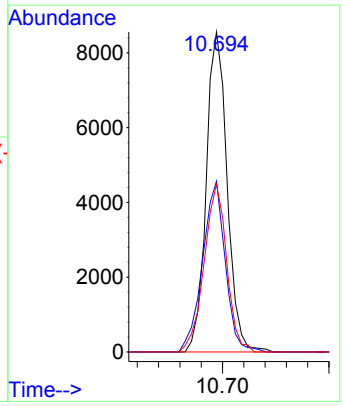




#70
Styrene
Concen: 4.68 ug/l
RT: 10.694 min Scan# 1633
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

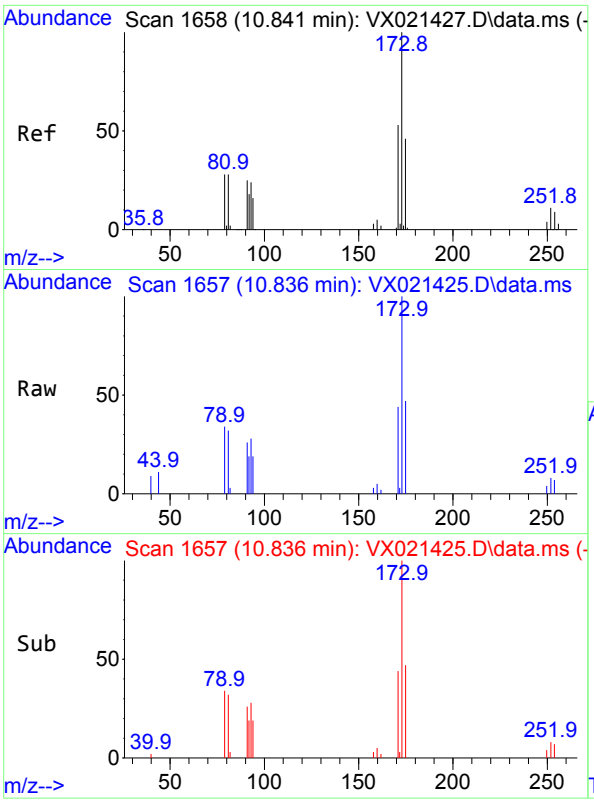
Tgt Ion:104 Resp: 11683

Ion	Ratio	Lower	Upper
104	100		
78	58.1	40.0	60.0
103	56.6	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

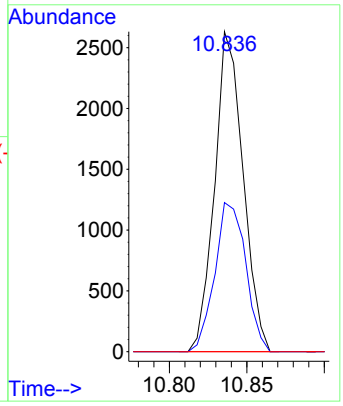
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

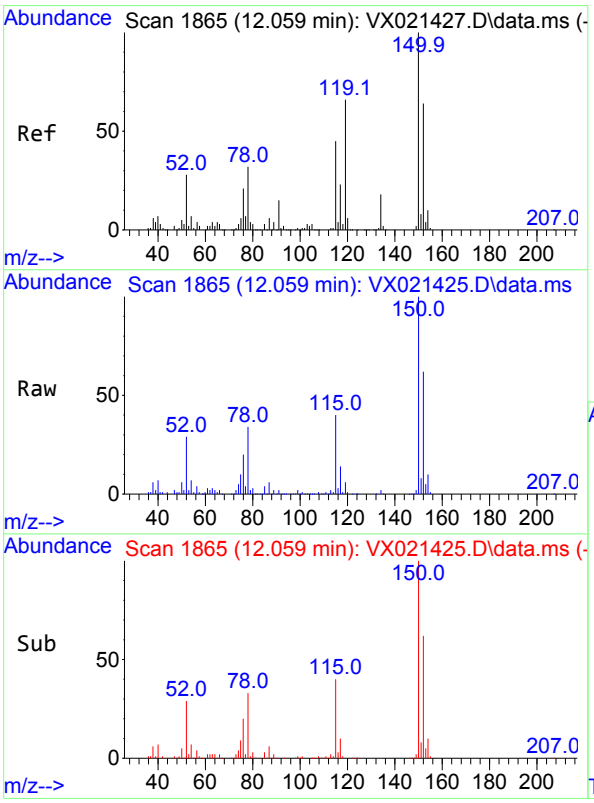


#71
Bromoform
Concen: 4.83 ug/l
RT: 10.836 min Scan# 1657
Delta R.T. -0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:173 Resp: 3361

Ion	Ratio	Lower	Upper
173	100		
175	50.6	23.9	71.8
254	0.0	0.1	0.1#

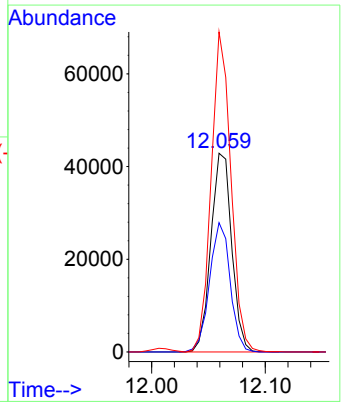




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

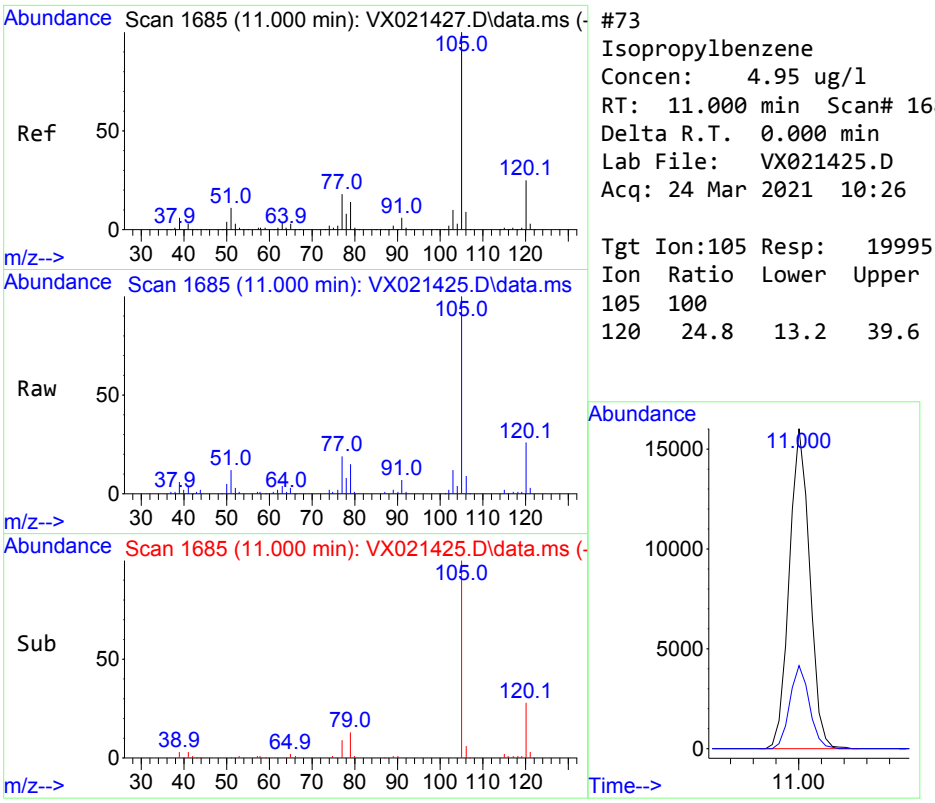
Tgt Ion:152 Resp: 54644

Ion	Ratio	Lower	Upper
152	100		
115	64.3	41.1	123.3
150	152.8	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

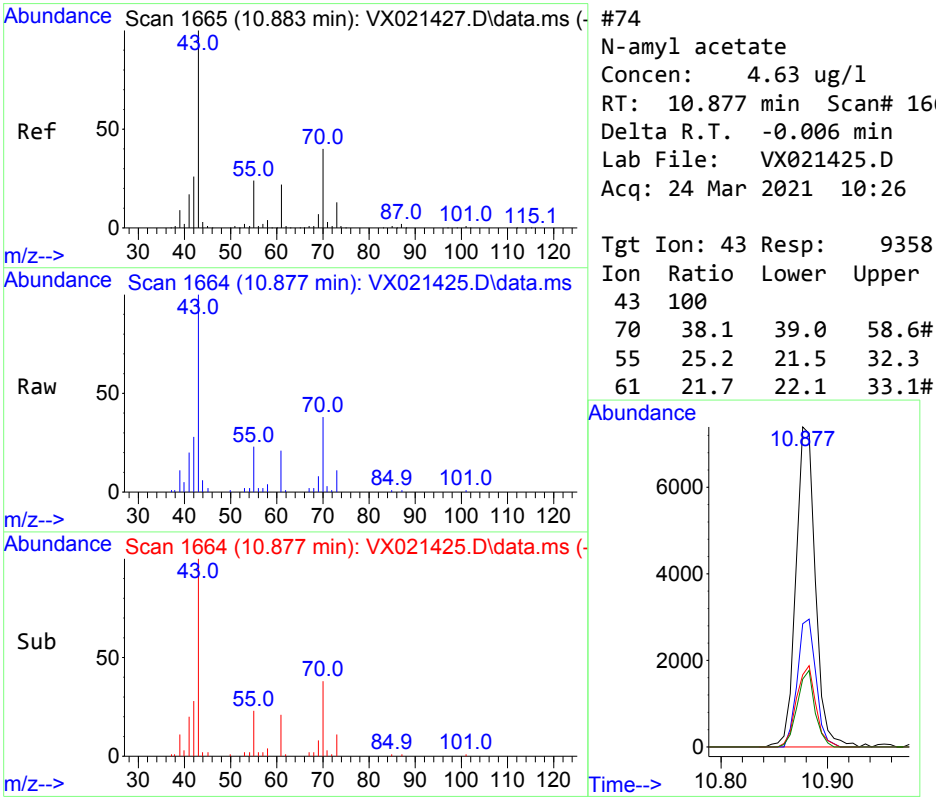
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM



#73
Isopropylbenzene
Concen: 4.95 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:105 Resp: 19995

Ion	Ratio	Lower	Upper
105	100		
120	24.8	13.2	39.6



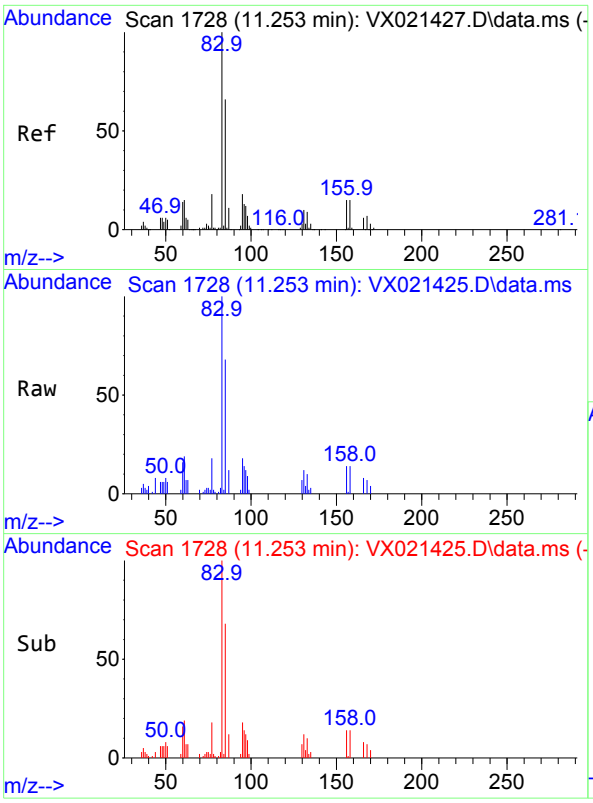
#74
N-amyl acetate
Concen: 4.63 ug/l
RT: 10.877 min Scan# 1664
Delta R.T. -0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 43 Resp: 9358

Ion	Ratio	Lower	Upper
43	100		
70	38.1	39.0	58.6#
55	25.2	21.5	32.3
61	21.7	22.1	33.1#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

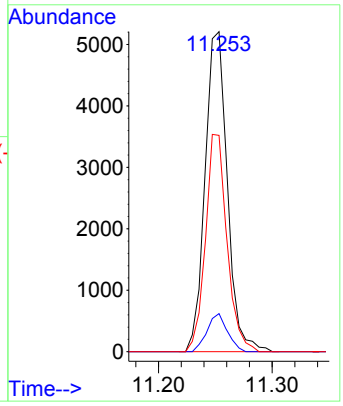
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

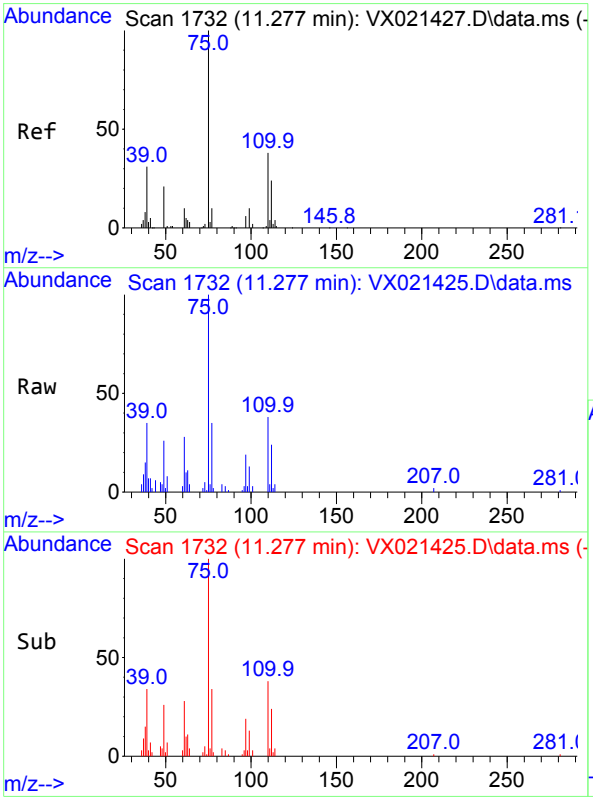


#75
1,1,2,2-Tetrachloroethane
Concen: 5.29 ug/l
RT: 11.253 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 83 Resp: 7098

Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.1	15.2
85	65.5	31.8	95.4

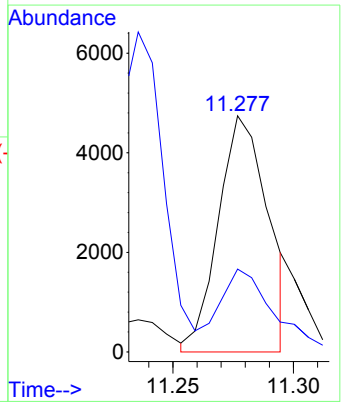




#76
1,2,3-Trichloropropane
Concen: 5.23 ug/l m
RT: 11.277 min Scan# 1732
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

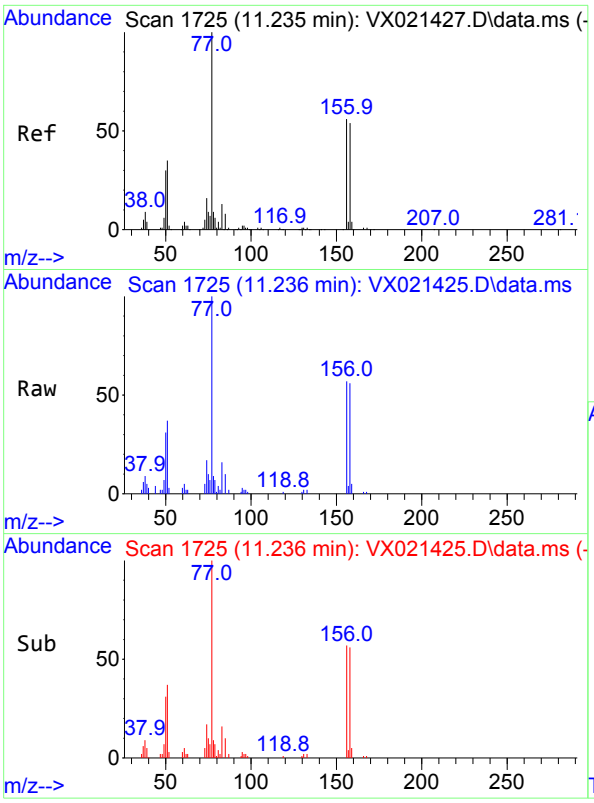
Tgt Ion: 75 Resp: 6759

Ion	Ratio	Lower	Upper
75	100		
77	39.0	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

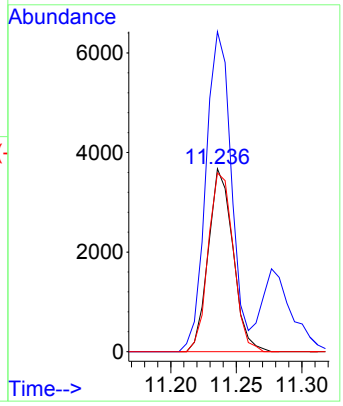
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

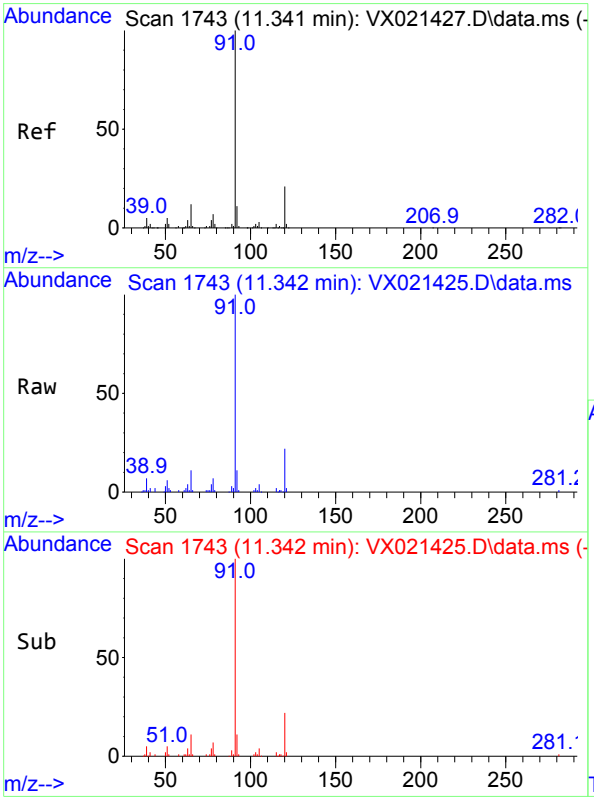


#77
Bromobenzene
Concen: 5.00 ug/l
RT: 11.236 min Scan# 1725
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:156 Resp: 4812

Ion	Ratio	Lower	Upper
156	100		
77	180.7	82.8	248.6
158	99.1	49.1	147.4

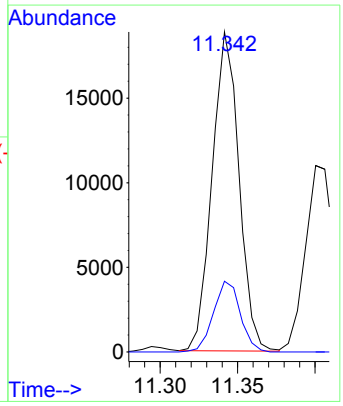




#78
n-propylbenzene
Concen: 4.81 ug/l
RT: 11.342 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

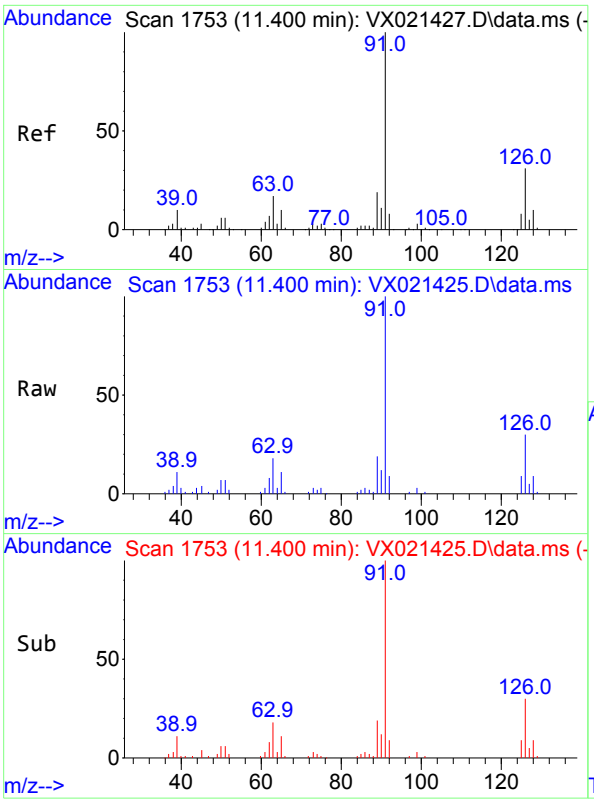
Tgt Ion: 91 Resp: 22714

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

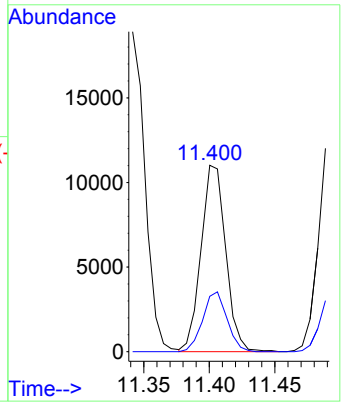
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

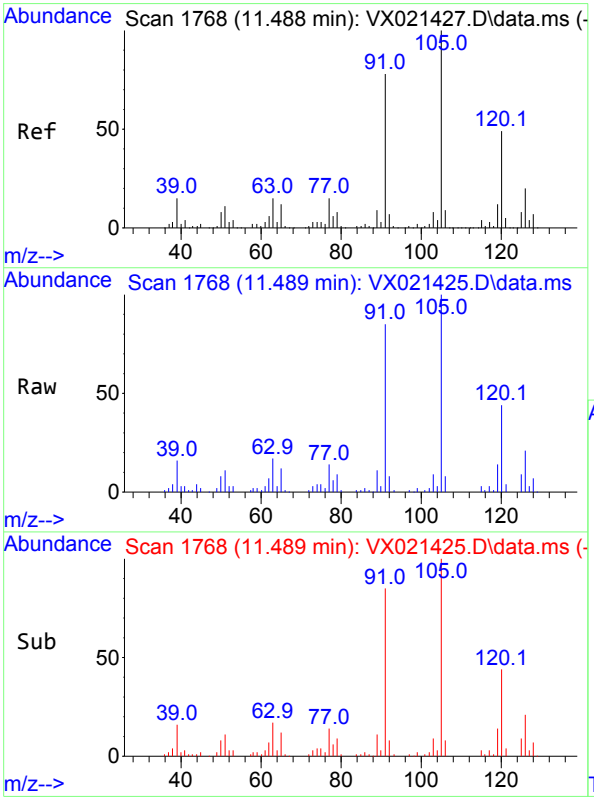


#79
2-Chlorotoluene
Concen: 5.04 ug/l
RT: 11.400 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 91 Resp: 14465

Ion	Ratio	Lower	Upper
91	100		
126	31.5	16.6	49.8

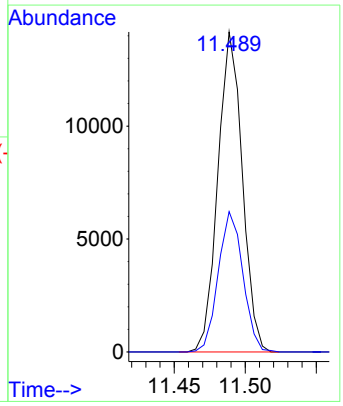




#80
1,3,5-Trimethylbenzene
Concen: 4.95 ug/l
RT: 11.489 min Scan# 1768
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

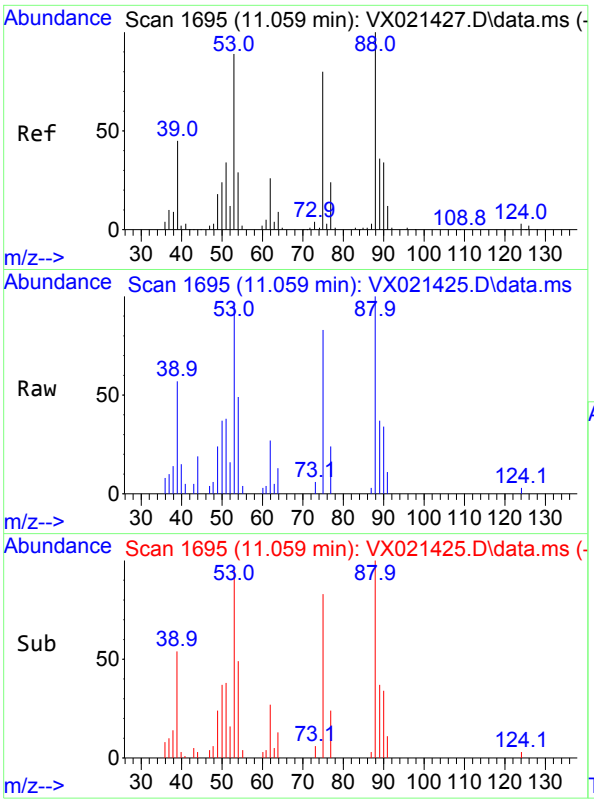
Tgt Ion:105 Resp: 16909

Ion	Ratio	Lower	Upper
105	100		
120	44.4	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

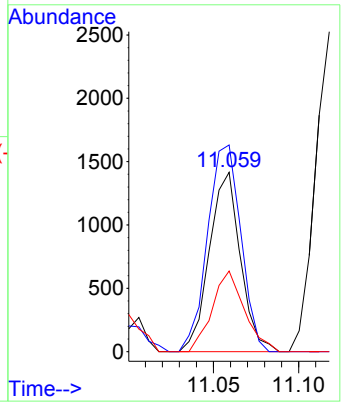
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

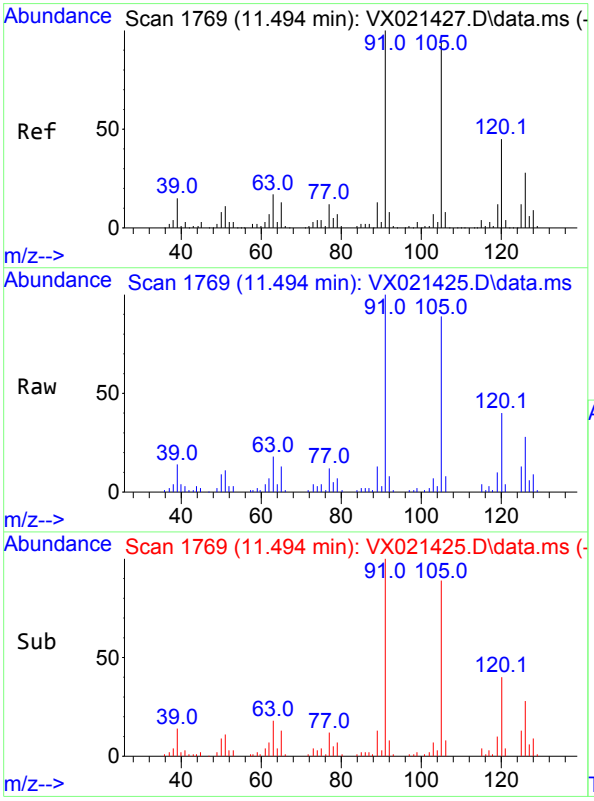


#81
trans-1,4-Dichloro-2-butene
Concen: 3.93 ug/l
RT: 11.059 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 75 Resp: 1800

Ion	Ratio	Lower	Upper
75	100		
53	123.1	74.5	111.7#
89	46.7	37.9	56.9

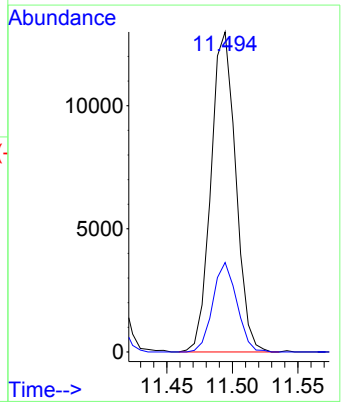




#82
4-Chlorotoluene
Concen: 5.04 ug/l
RT: 11.494 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

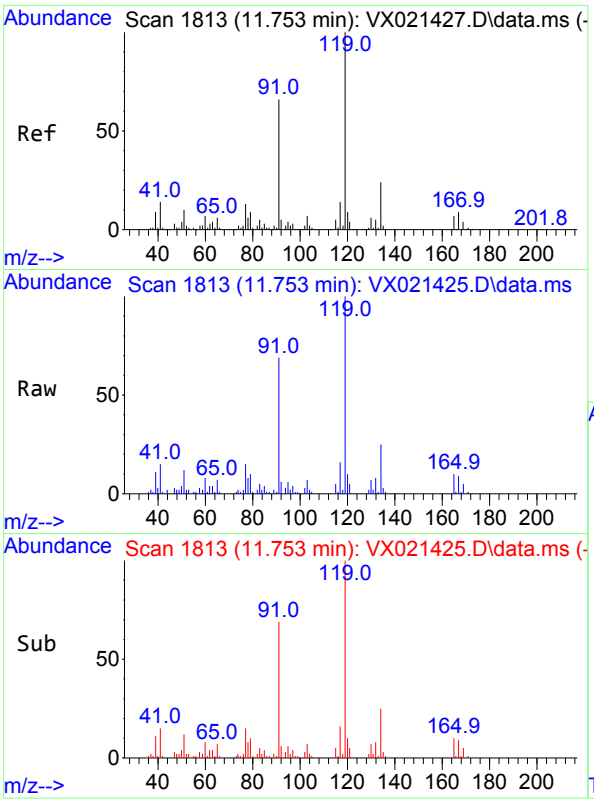
Tgt Ion: 91 Resp: 17040

Ion	Ratio	Lower	Upper
91	100		
126	27.2	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

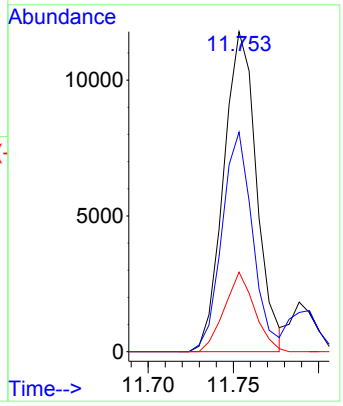
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

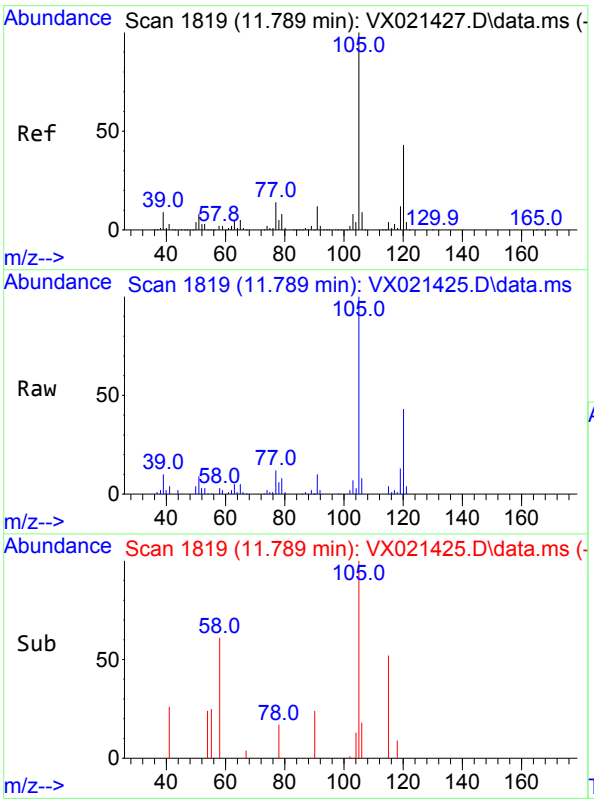


#83
tert-Butylbenzene
Concen: 4.86 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:119 Resp: 15859

Ion	Ratio	Lower	Upper
119	100		
91	64.2	27.9	83.7
134	22.8	11.3	33.9

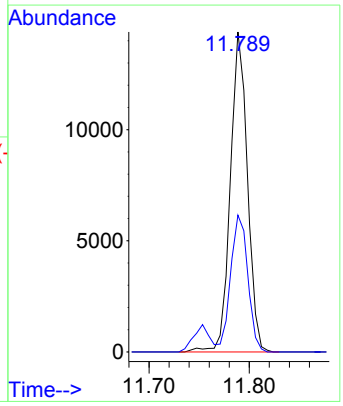




#84
1,2,4-Trimethylbenzene
Concen: 4.91 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

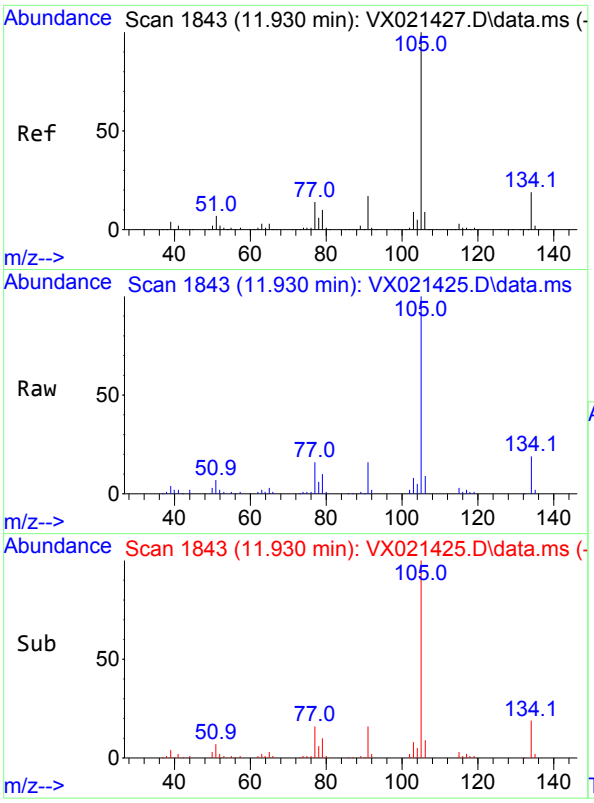
Tgt Ion:105 Resp: 17040

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

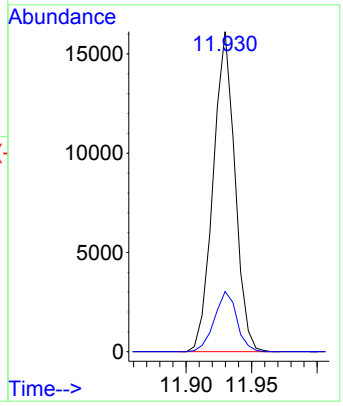
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

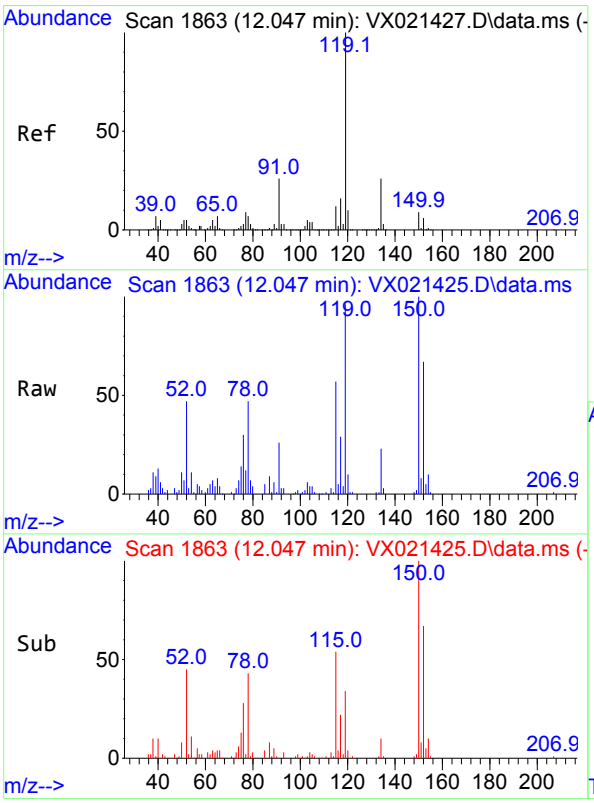


#85
sec-Butylbenzene
Concen: 4.83 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:105 Resp: 18590

Ion	Ratio	Lower	Upper
105	100		
134	19.3	10.0	29.8

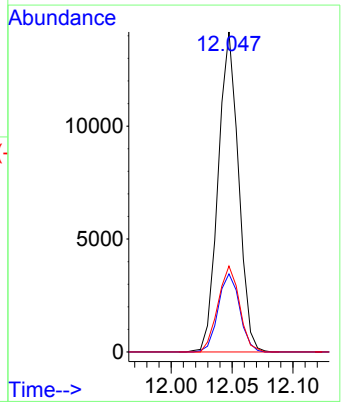




#86
p-Isopropyltoluene
Concen: 4.68 ug/l
RT: 12.047 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

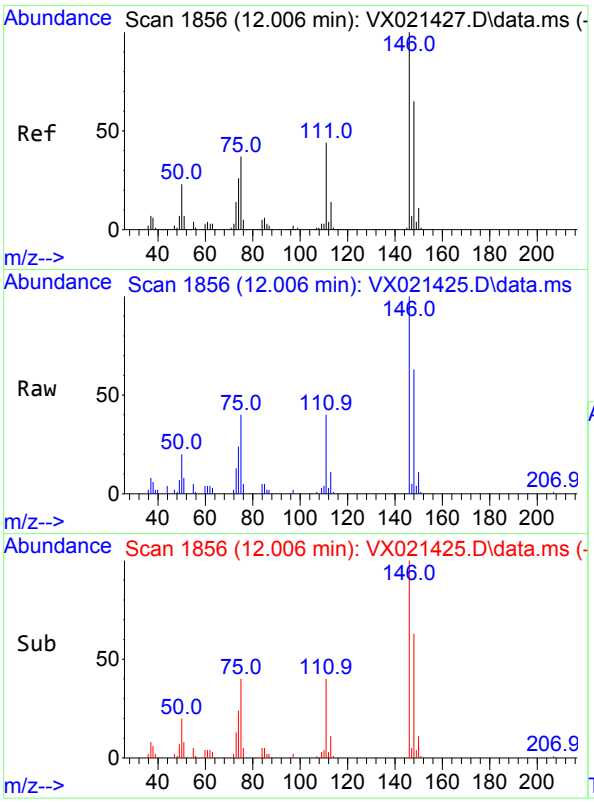
Tgt Ion:119 Resp: 16459

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.9	38.7
91	28.4	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

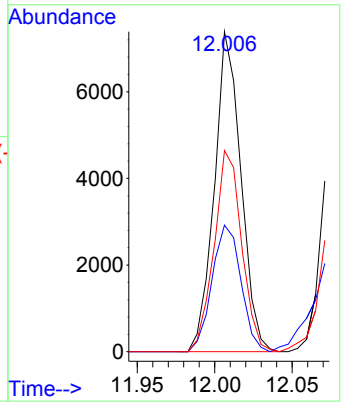
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

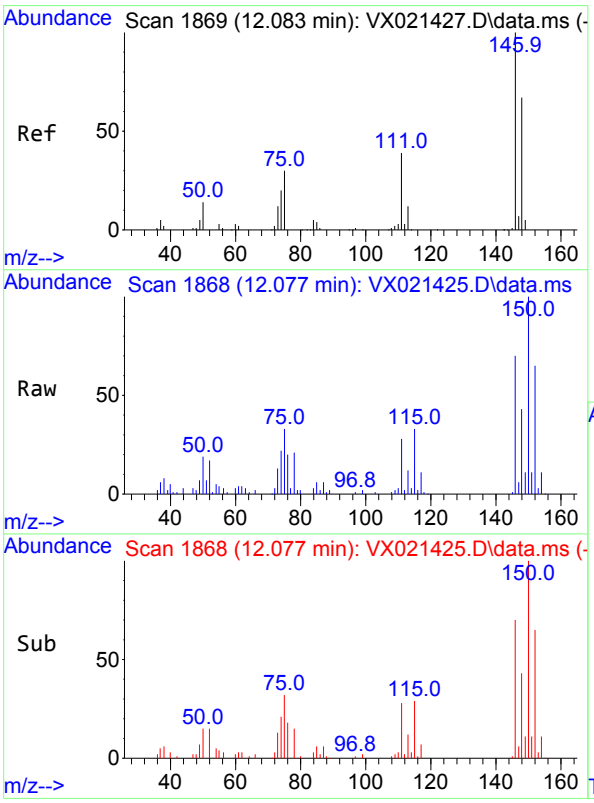


#87
1,3-Dichlorobenzene
Concen: 5.02 ug/l
RT: 12.006 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:146 Resp: 8791

Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.2	60.5
148	65.3	31.9	95.7

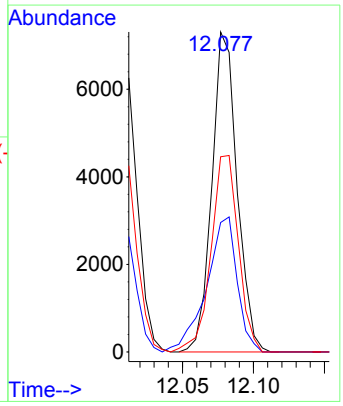




#88
1,4-Dichlorobenzene
Concen: 5.05 ug/l
RT: 12.077 min Scan# 1868
Delta R.T. -0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

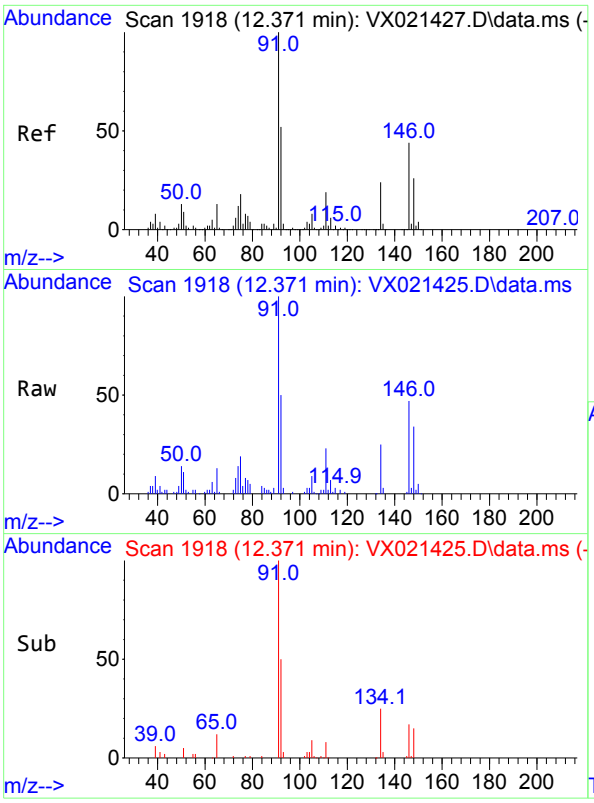
Tgt Ion:146 Resp: 9008

Ion	Ratio	Lower	Upper
146	100		
111	51.3	19.6	58.8
148	66.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

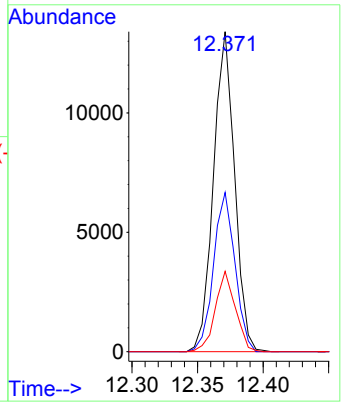
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

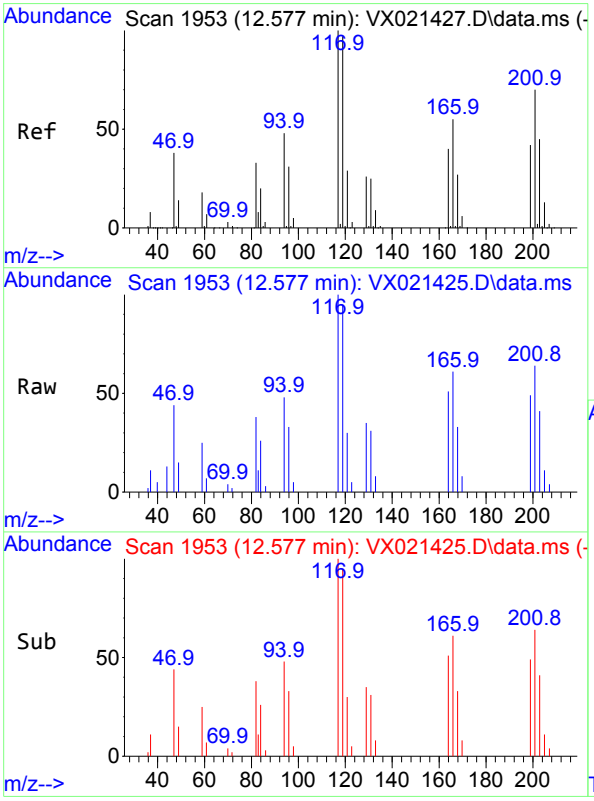


#89
n-Butylbenzene
Concen: 4.68 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion: 91 Resp: 15001

Ion	Ratio	Lower	Upper
91	100		
92	50.5	27.4	82.0
134	23.9	13.2	39.5

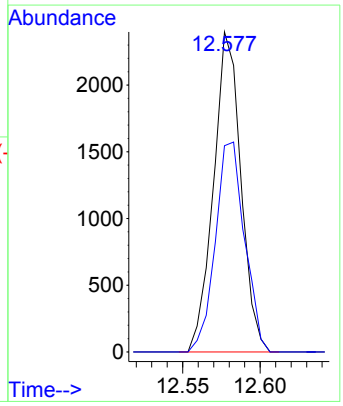




#90
Hexachloroethane
Concen: 5.38 ug/l
RT: 12.577 min Scan# 1953
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

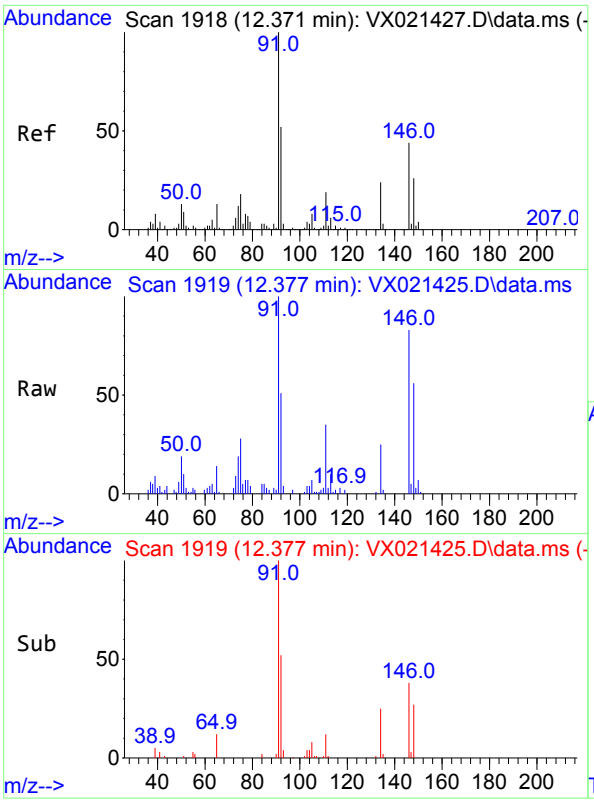
Tgt Ion:117 Resp: 2943

Ion	Ratio	Lower	Upper
117	100		
201	70.3	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

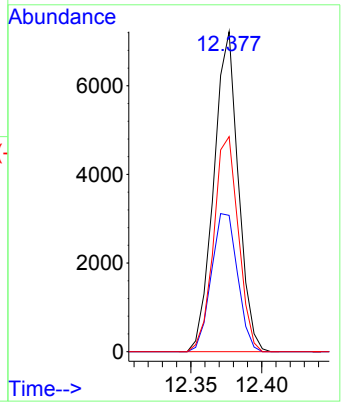
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

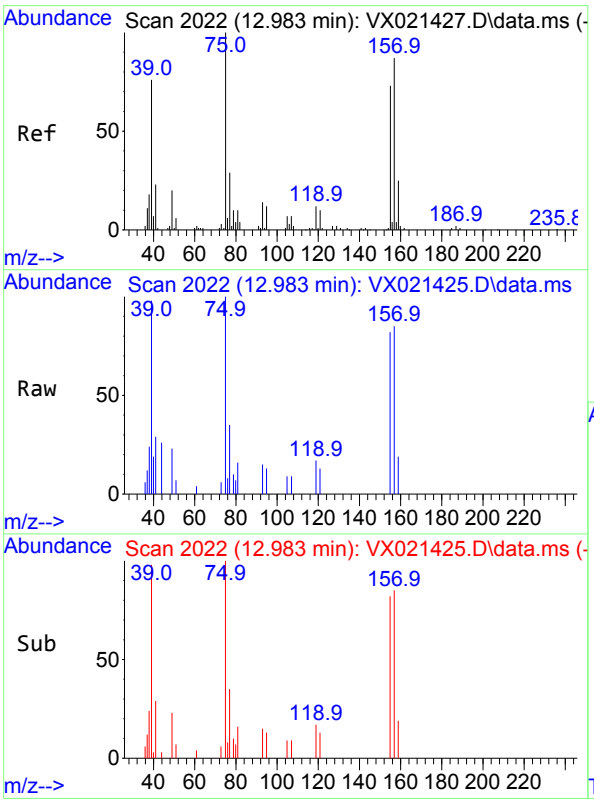


#91
1,2-Dichlorobenzene
Concen: 5.10 ug/l
RT: 12.377 min Scan# 1919
Delta R.T. 0.006 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:146 Resp: 8671

Ion	Ratio	Lower	Upper
146	100		
111	46.0	20.8	62.2
148	67.6	31.9	95.5

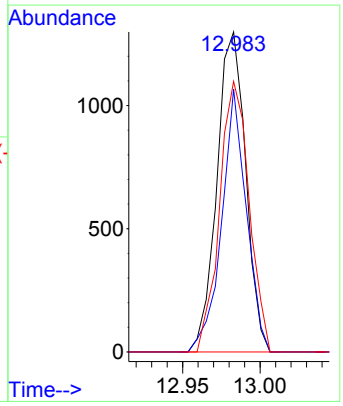




#92
1,2-Dibromo-3-Chloropropane
Concen: 4.90 ug/l
RT: 12.983 min Scan# 2022
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

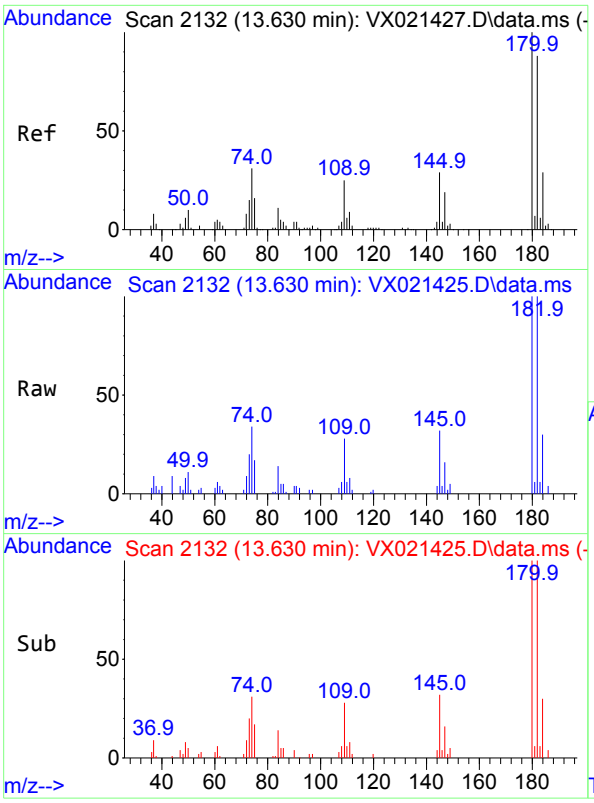
Tgt Ion: 75 Resp: 1675

Ion	Ratio	Lower	Upper
75	100		
155	70.7	45.3	135.9
157	86.6	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

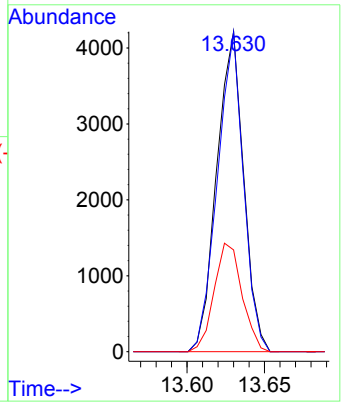
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

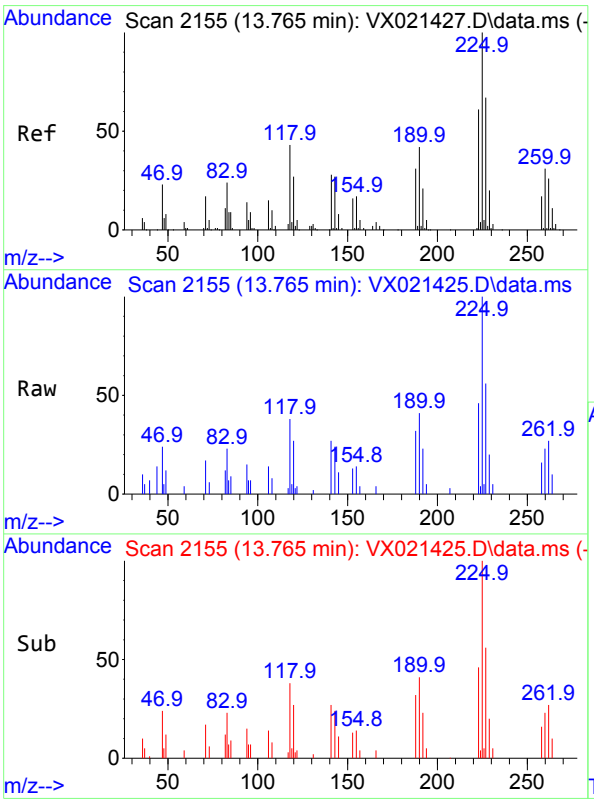


#93
1,2,4-Trichlorobenzene
Concen: 4.53 ug/l
RT: 13.630 min Scan# 2132
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:180 Resp: 5075

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.7	143.1
145	35.3	15.0	45.0

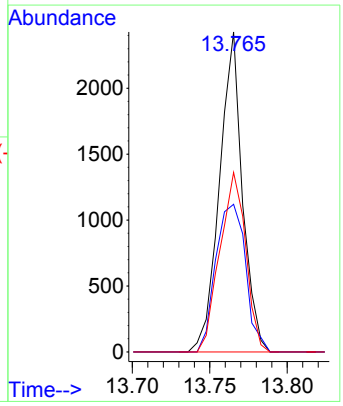




#94
Hexachlorobutadiene
Concen: 5.29 ug/l
RT: 13.765 min Scan# 2155
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

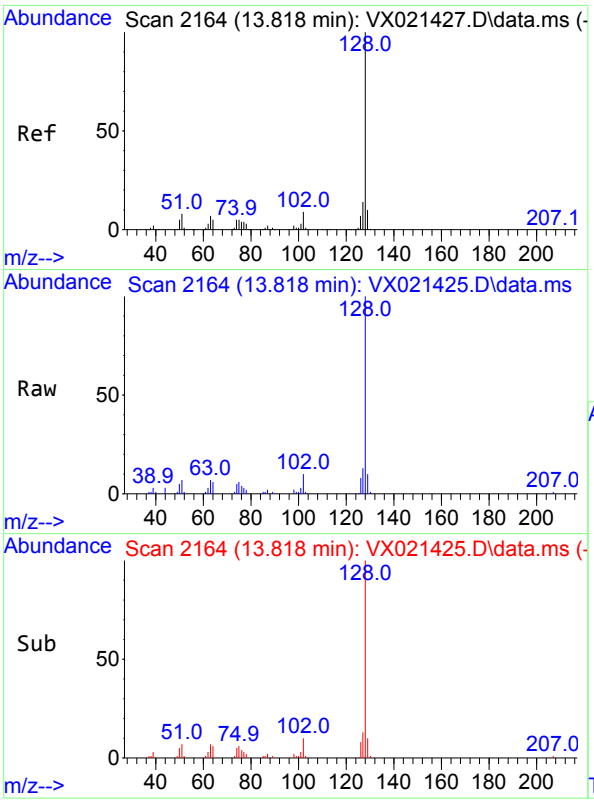
Tgt Ion:225 Resp: 2497

Ion	Ratio	Lower	Upper
225	100		
223	60.2	31.1	93.2
227	63.1	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

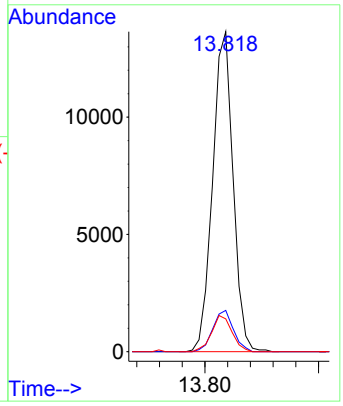
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:21 AM

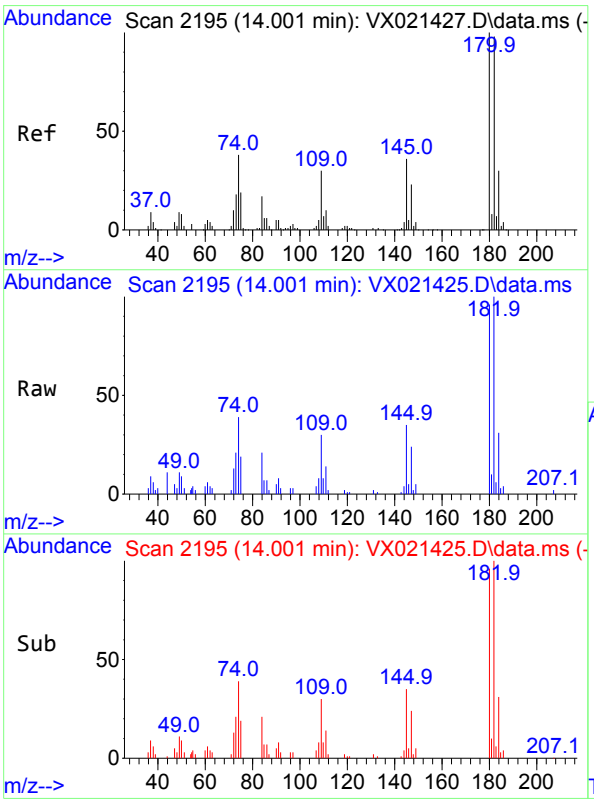


#95
Naphthalene
Concen: 4.45 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:128 Resp: 17046

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	11.3	8.8	13.2

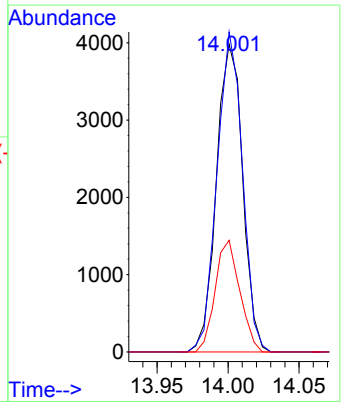




#96
1,2,3-Trichlorobenzene
Concen: 4.61 ug/l
RT: 14.001 min Scan# 2195
Delta R.T. 0.000 min
Lab File: VX021425.D
Acq: 24 Mar 2021 10:26

Tgt Ion:180 Resp: 5117

Ion	Ratio	Lower	Upper
180	100		
182	100.6	47.6	142.9
145	34.0	16.1	48.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021426.D
Acq On : 24 Mar 2021 10:49
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 11:43:43 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICC020

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.629	168	77138	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	130062	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	122005	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	60191	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.029	65	23829	18.94	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 37.88%#				
35) Dibromofluoromethane	5.464	113	16662	18.79	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 37.58%#				
50) Toluene-d8	8.694	98	59815	18.51	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 37.02%#				
62) 4-Bromofluorobenzene	11.118	95	22955	18.39	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 36.78%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.187	85	15994	17.67	ug/l		96
3) Chloromethane	1.311	50	18403	10.75	ug/l		99
4) Vinyl Chloride	1.393	62	16430	17.80	ug/l		98
5) Bromomethane	1.623	94	7070	17.80	ug/l		98
6) Chloroethane	1.705	64	10325	18.23	ug/l		100
7) Trichlorofluoromethane	1.911	101	26898	19.19	ug/l		99
8) Diethyl Ether	2.170	74	9129	18.56	ug/l		83
9) 1,1,2-Trichlorotrifluo...	2.364	101	15186	19.03	ug/l		94
10) Methyl Iodide	2.487	142	9069	13.44	ug/l	#	87
11) Tert butyl alcohol	3.017	59	18902	89.57	ug/l		96
12) 1,1-Dichloroethene	2.352	96	14351	18.49	ug/l		86
13) Acrolein	2.270	56	9657	75.21	ug/l		98
14) Allyl chloride	2.705	41	28280	17.67	ug/l	#	87
15) Acrylonitrile	3.117	53	46522	94.26	ug/l		98
16) Acetone	2.423	43	43424	93.03	ug/l	#	88
17) Carbon Disulfide	2.546	76	38537	16.05	ug/l		100
18) Methyl Acetate	2.746	43	26541	20.29	ug/l	#	89
19) Methyl tert-butyl Ether	3.170	73	54065	18.53	ug/l		100
20) Methylene Chloride	2.835	84	17009	17.88	ug/l	#	84
21) trans-1,2-Dichloroethene	3.140	96	15683	18.03	ug/l		90
22) Diisopropyl ether	3.823	45	56864	18.46	ug/l		92
23) Vinyl Acetate	3.782	43	240672	90.26	ug/l	#	92
24) 1,1-Dichloroethane	3.670	63	30829	18.50	ug/l		98
25) 2-Butanone	4.635	43	67343	94.36	ug/l		90
26) 2,2-Dichloropropane	4.547	77	26154	18.04	ug/l		98
27) cis-1,2-Dichloroethene	4.558	96	18193	18.18	ug/l		89
28) Bromochloromethane	4.982	49	15247	19.38	ug/l		83
29) Tetrahydrofuran	5.088	42	44037	93.63	ug/l	#	85
30) Chloroform	5.176	83	32866	18.94	ug/l		98
31) Cyclohexane	5.547	56	26219	17.44	ug/l		88
32) 1,1,1-Trichloroethane	5.458	97	29065	18.89	ug/l		96
36) 1,1-Dichloropropene	5.764	75	23205	17.79	ug/l		96
37) Ethyl Acetate	4.788	43	25793	17.10	ug/l	#	93
38) Carbon Tetrachloride	5.753	117	25282	18.61	ug/l		90
39) Methylcyclohexane	7.441	83	25640	17.70	ug/l		94
40) Benzene	6.111	78	65987	18.32	ug/l		97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021426.D
Acq On : 24 Mar 2021 10:49
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 11:43:43 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICC020

Manual Integrations APPROVED
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3/25/2021 9:49:26 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	5.000	41	15185	17.38	ug/l	#	89
42) 1,2-Dichloroethane	6.159	62	28976	18.59	ug/l		94
43) Isopropyl Acetate	6.412	43	42928	17.35	ug/l	#	91
44) Trichloroethene	7.182	130	17424	18.23	ug/l		92
45) 1,2-Dichloropropane	7.488	63	17931	18.49	ug/l		100
46) Dibromomethane	7.635	93	12794	17.98	ug/l		94
47) Bromodichloromethane	7.871	83	26757	18.79	ug/l		98
48) Methyl methacrylate	7.747	41	23054	17.47	ug/l	#	82
49) 1,4-Dioxane	7.712	88	8298	338.96	ug/l	#	83
51) 4-Methyl-2-Pentanone	8.618	43	138866	95.53	ug/l		88
52) Toluene	8.765	92	42135	18.90	ug/l		100
53) t-1,3-Dichloropropene	9.024	75	26060	17.30	ug/l		96
54) cis-1,3-Dichloropropene	8.412	75	28326	17.66	ug/l	#	82
55) 1,1,2-Trichloroethane	9.194	97	18048	19.70	ug/l		96
56) Ethyl methacrylate	9.159	69	26047	17.76	ug/l	#	74
57) 1,3-Dichloropropane	9.353	76	29873	18.73	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.288	63	72843	90.16	ug/l		97
59) 2-Hexanone	9.471	43	103590	95.25	ug/l		85
60) Dibromochloromethane	9.565	129	19663	18.88	ug/l		99
61) 1,2-Dibromoethane	9.653	107	18559	18.42	ug/l		98
64) Tetrachloroethene	9.318	164	15441	17.11	ug/l		92
65) Chlorobenzene	10.118	112	44424	17.70	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.200	131	16925	18.10	ug/l		98
67) Ethyl Benzene	10.236	91	83114	17.98	ug/l		94
68) m/p-Xylenes	10.341	106	59799	36.20	ug/l		93
69) o-Xylene	10.683	106	29103	18.14	ug/l		95
70) Styrene	10.694	104	49432	18.29	ug/l		96
71) Bromoform	10.842	173	13951	18.51	ug/l	#	100
73) Isopropylbenzene	11.000	105	78456	17.63	ug/l		100
74) N-amyl acetate	10.877	43	36826	16.54	ug/l	#	88
75) 1,1,2,2-Tetrachloroethane	11.253	83	29031	19.64	ug/l		98
76) 1,2,3-Trichloropropane	11.277	75	26887m	18.88	ug/l		
77) Bromobenzene	11.242	156	18682	17.63	ug/l		91
78) n-propylbenzene	11.342	91	92531	17.80	ug/l		97
79) 2-Chlorotoluene	11.400	91	56544	17.89	ug/l		98
80) 1,3,5-Trimethylbenzene	11.489	105	67544	17.96	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.059	75	7828	15.51	ug/l	#	81
82) 4-Chlorotoluene	11.495	91	66662	17.90	ug/l		97
83) tert-Butylbenzene	11.753	119	64683	18.01	ug/l		91
84) 1,2,4-Trimethylbenzene	11.789	105	69157	18.09	ug/l		97
85) sec-Butylbenzene	11.930	105	75635	17.86	ug/l		99
86) p-Isopropyltoluene	12.048	119	70268	18.13	ug/l		96
87) 1,3-Dichlorobenzene	12.006	146	33998	17.62	ug/l		98
88) 1,4-Dichlorobenzene	12.077	146	35229	17.94	ug/l		98
89) n-Butylbenzene	12.371	91	60930	17.25	ug/l		96
90) Hexachloroethane	12.577	117	12040	20.00	ug/l		89
91) 1,2-Dichlorobenzene	12.377	146	34367	18.36	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.983	75	6340	16.82	ug/l		78
93) 1,2,4-Trichlorobenzene	13.630	180	19806	16.04	ug/l		94
94) Hexachlorobutadiene	13.765	225	9393	18.06	ug/l		97
95) Naphthalene	13.818	128	70218	16.64	ug/l		99
96) 1,2,3-Trichlorobenzene	14.001	180	21794	17.83	ug/l		95

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021426.D
Acq On : 24 Mar 2021 10:49
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

Quant Time: Mar 24 11:43:43 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

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

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

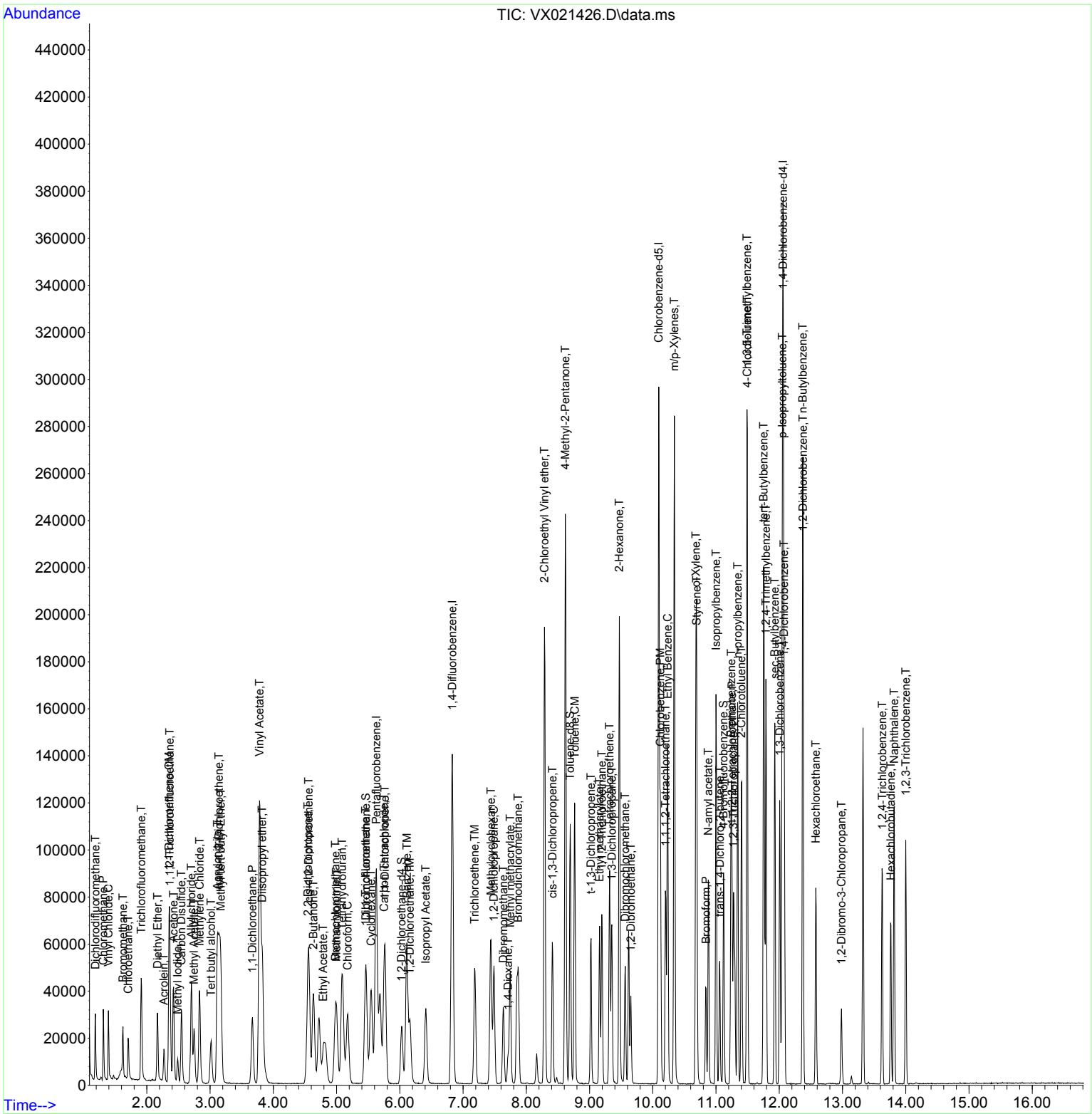
ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021426.D
Acq On : 24 Mar 2021 10:49
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 11:43:43 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

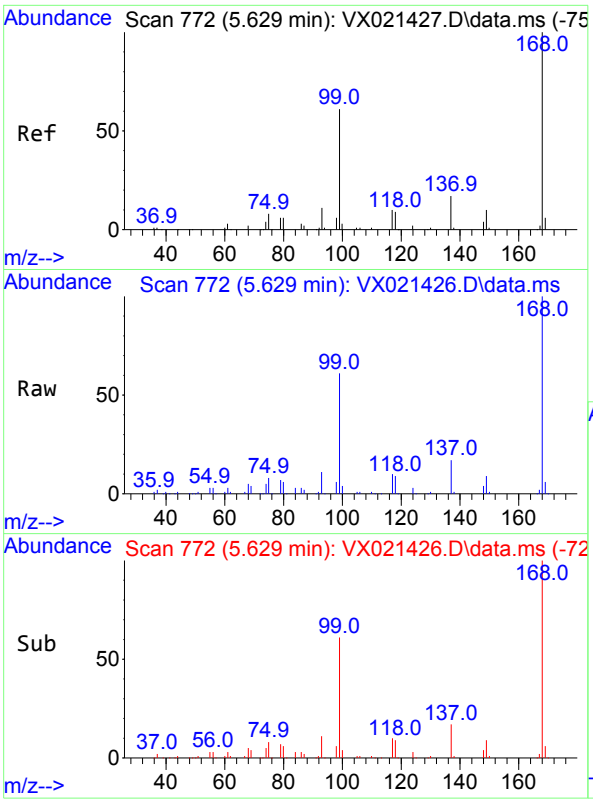
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

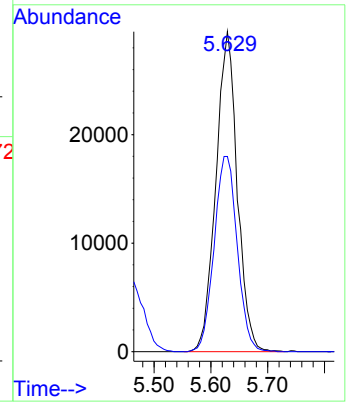
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

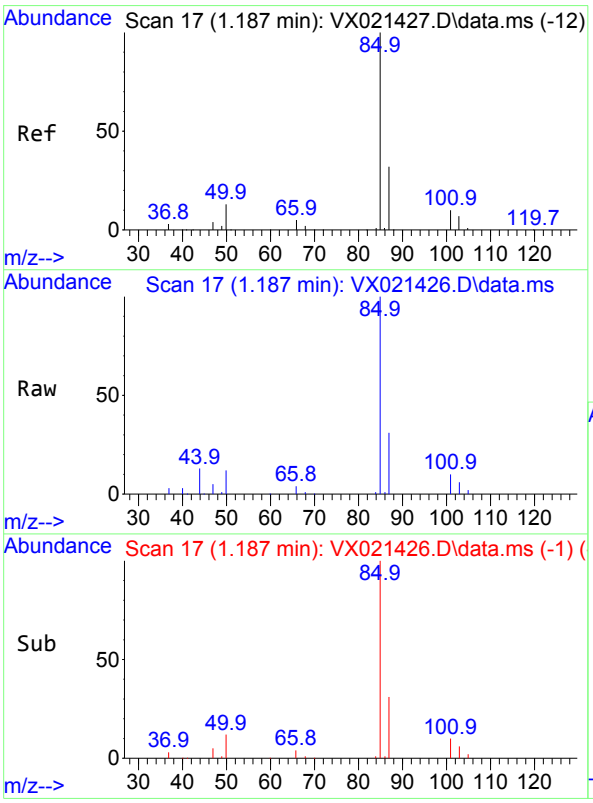


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 772
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:168 Resp: 77138

Ion	Ratio	Lower	Upper
168	100		
99	61.0	45.8	68.6

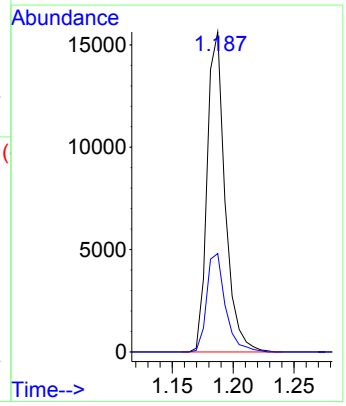




#2
Dichlorodifluoromethane
Concen: 17.67 ug/l
RT: 1.187 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

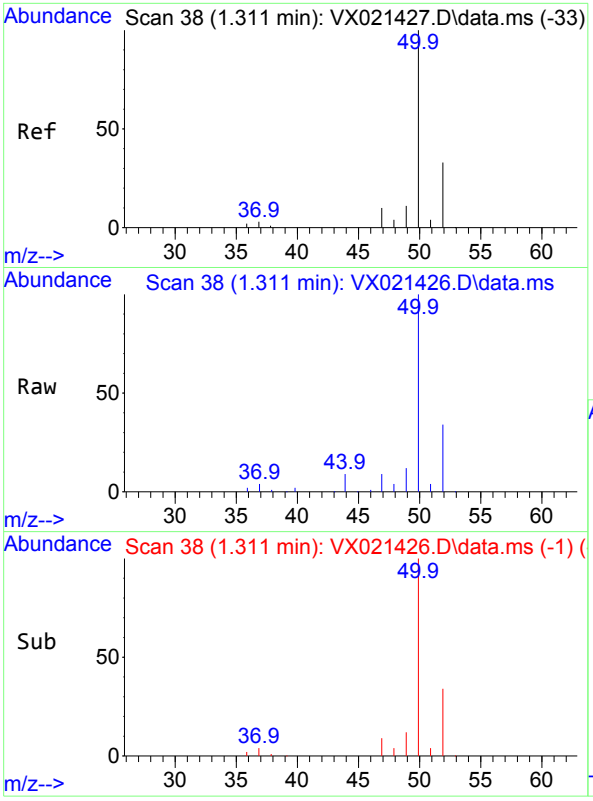
Tgt Ion: 85 Resp: 15994

Ion	Ratio	Lower	Upper
85	100		
87	30.8	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

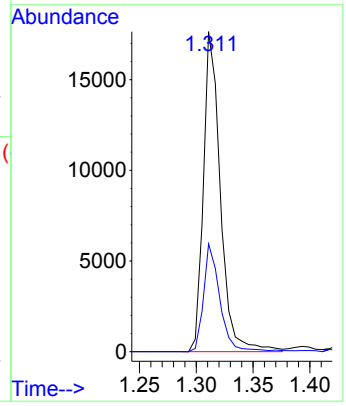
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

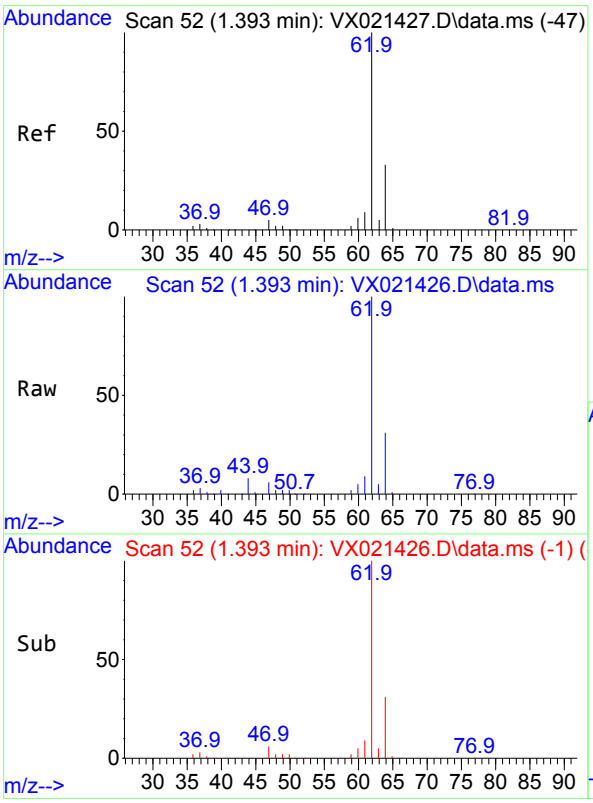


#3
Chloromethane
Concen: 10.75 ug/l
RT: 1.311 min Scan# 38
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 50 Resp: 18403

Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.4	39.6

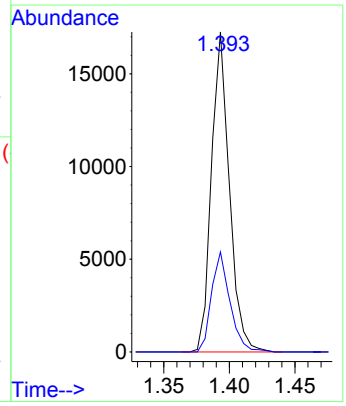




#4
Vinyl Chloride
Concen: 17.80 ug/l
RT: 1.393 min Scan# 52
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

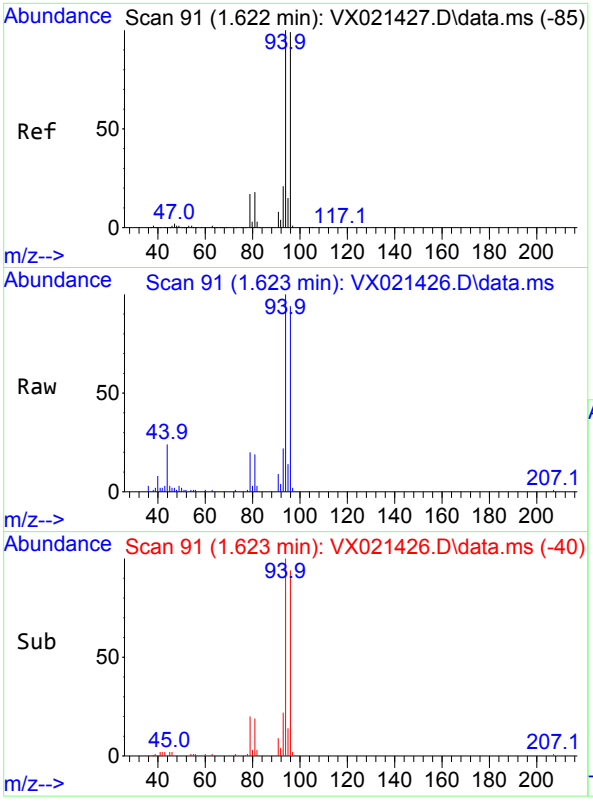
Tgt Ion: 62 Resp: 16430

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

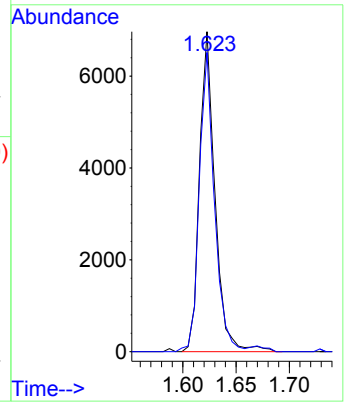
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

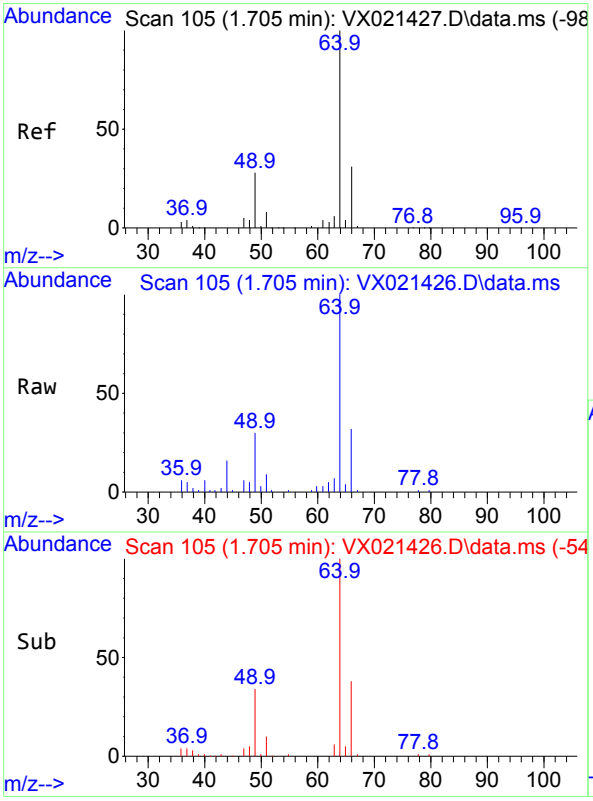


#5
Bromomethane
Concen: 17.80 ug/l
RT: 1.623 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 94 Resp: 7070

Ion	Ratio	Lower	Upper
94	100		
96	93.6	76.4	114.6

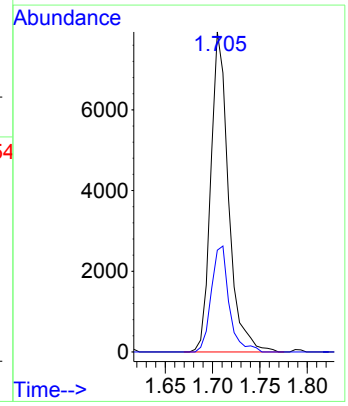




#6
Chloroethane
Concen: 18.23 ug/l
RT: 1.705 min Scan# 105
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

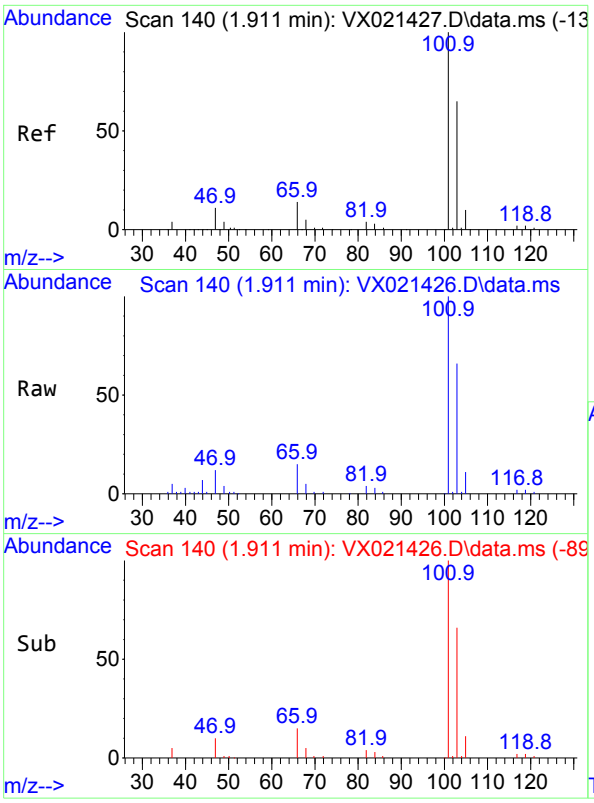
Tgt Ion: 64 Resp: 10325

Ion	Ratio	Lower	Upper
64	100		
66	31.8	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

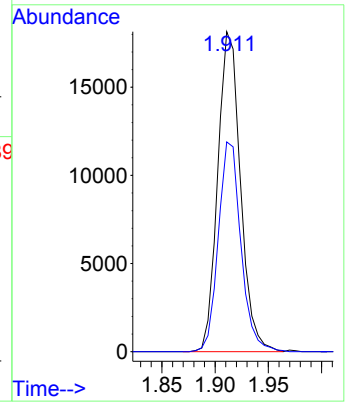
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

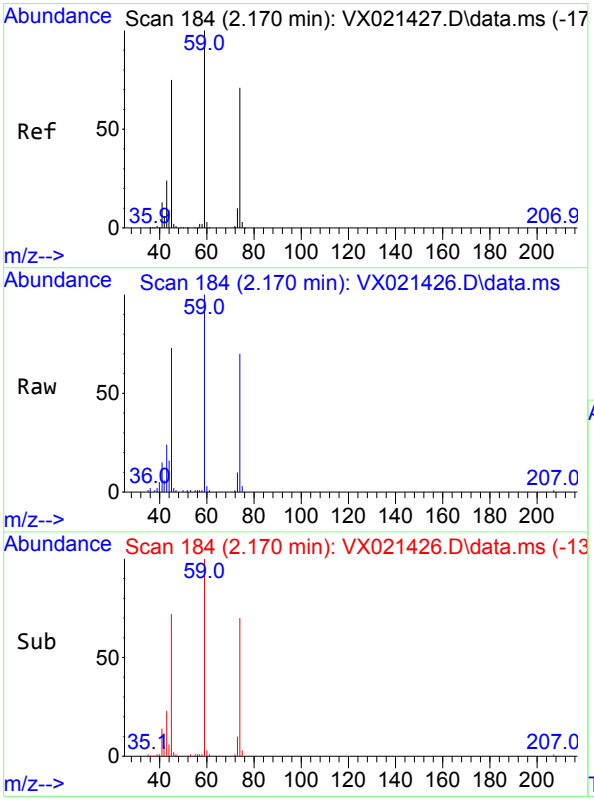


#7
Trichlorofluoromethane
Concen: 19.19 ug/l
RT: 1.911 min Scan# 140
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:101 Resp: 26898

Ion	Ratio	Lower	Upper
101	100		
103	65.6	53.2	79.8

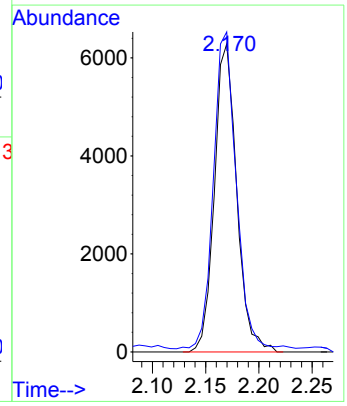




#8
Diethyl Ether
Concen: 18.56 ug/l
RT: 2.170 min Scan# 184
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

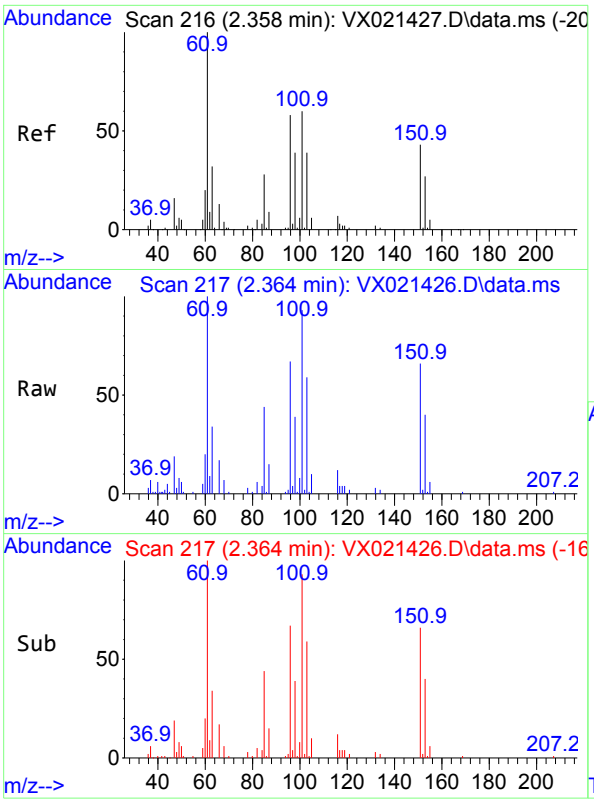
Tgt Ion: 74 Resp: 9129

Ion	Ratio	Lower	Upper
74	100		
45	105.0	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

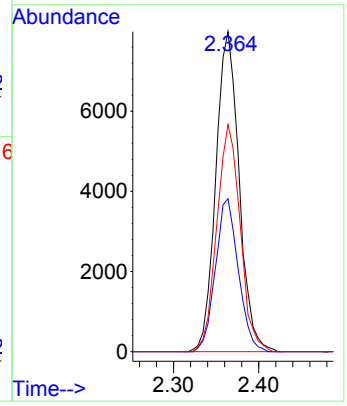
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

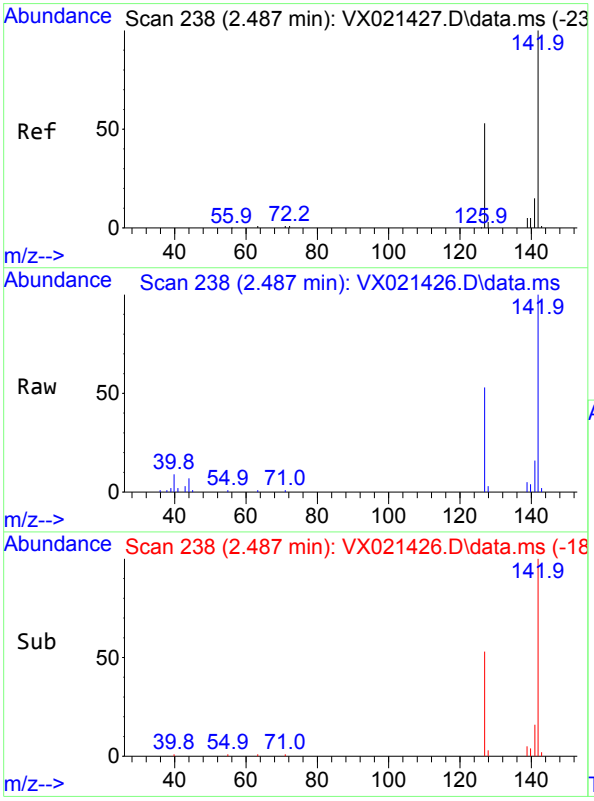


#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.03 ug/l
RT: 2.364 min Scan# 217
Delta R.T. 0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:101 Resp: 15186

Ion	Ratio	Lower	Upper
101	100		
85	47.1	34.9	52.3
151	71.3	61.4	92.2

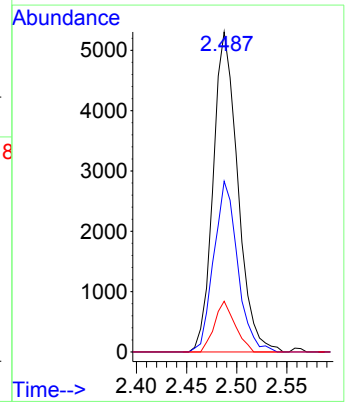




#10
Methyl Iodide
Concen: 13.44 ug/l
RT: 2.487 min Scan# 238
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

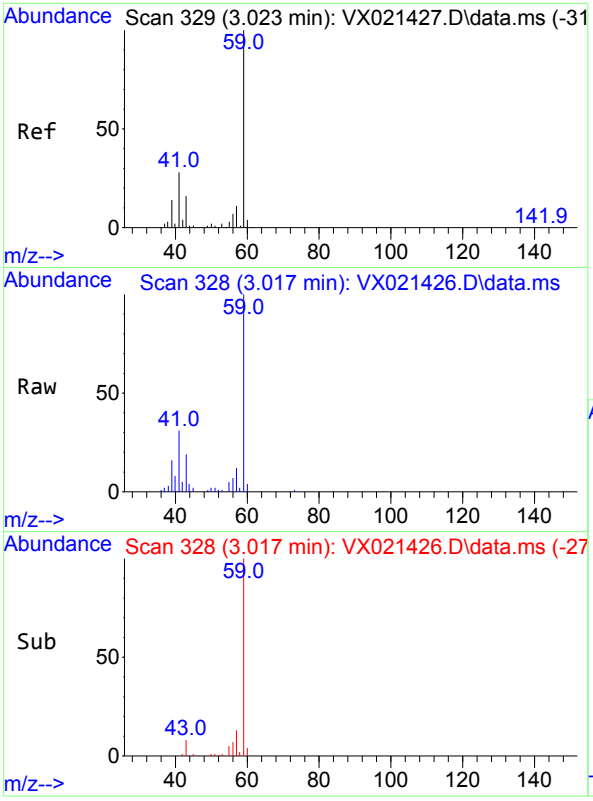
Tgt Ion:142 Resp: 9069

Ion	Ratio	Lower	Upper
142	100		
127	51.7	33.3	49.9#
141	13.3	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

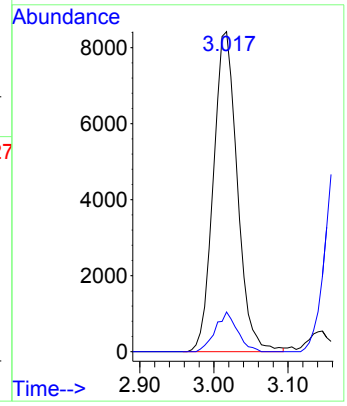
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

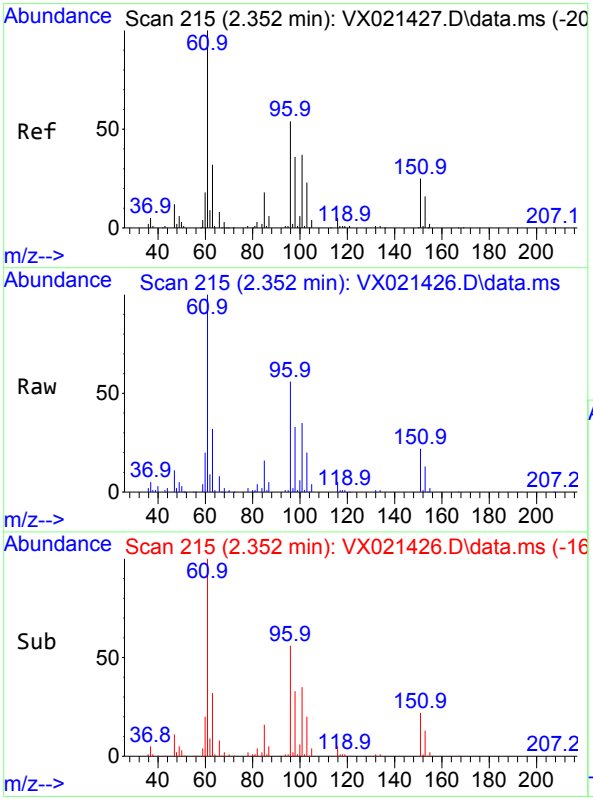


#11
Tert butyl alcohol
Concen: 89.57 ug/l
RT: 3.017 min Scan# 328
Delta R.T. -0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 59 Resp: 18902

Ion	Ratio	Lower	Upper
59	100		
57	11.4	7.8	11.8

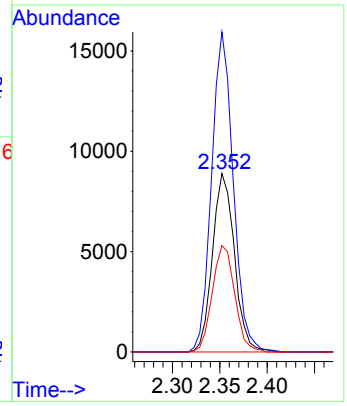




#12
1,1-Dichloroethene
Concen: 18.49 ug/l
RT: 2.352 min Scan# 215
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

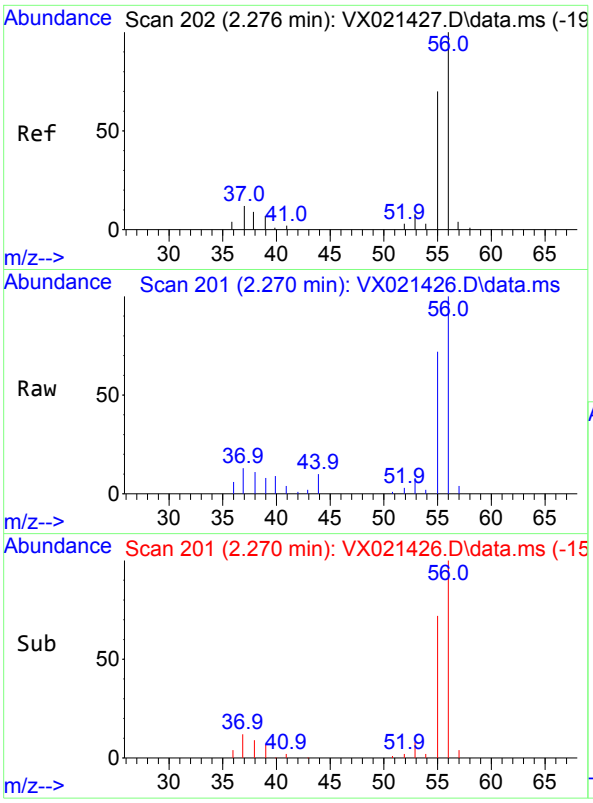
Tgt Ion: 96 Resp: 14351

Ion	Ratio	Lower	Upper
96	100		
61	179.4	124.6	187.0
98	59.7	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

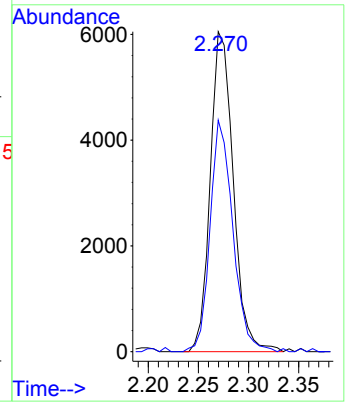
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

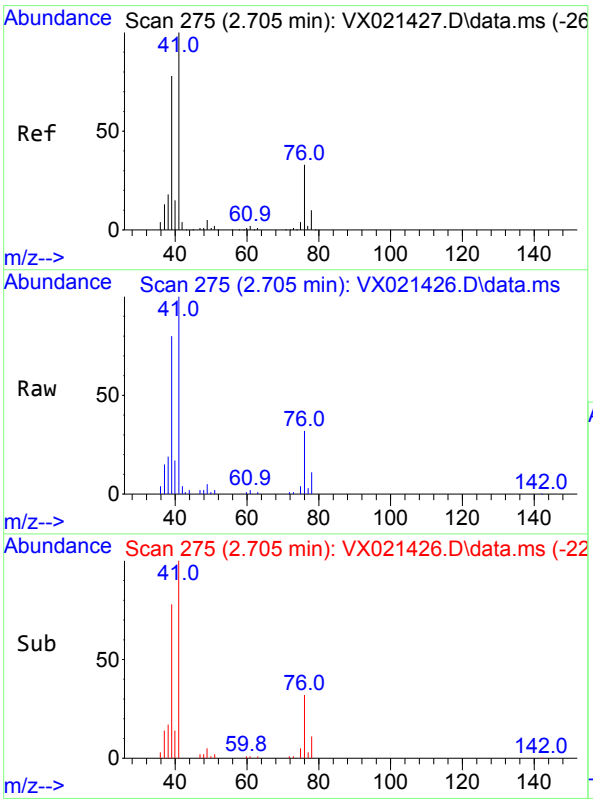


#13
Acrolein
Concen: 75.21 ug/l
RT: 2.270 min Scan# 201
Delta R.T. -0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 56 Resp: 9657

Ion	Ratio	Lower	Upper
56	100		
55	71.9	56.4	84.6

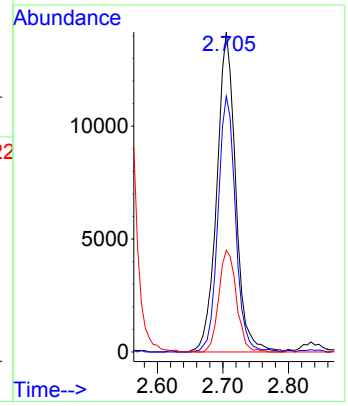




#14
Allyl chloride
Concen: 17.67 ug/l
RT: 2.705 min Scan# 275
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

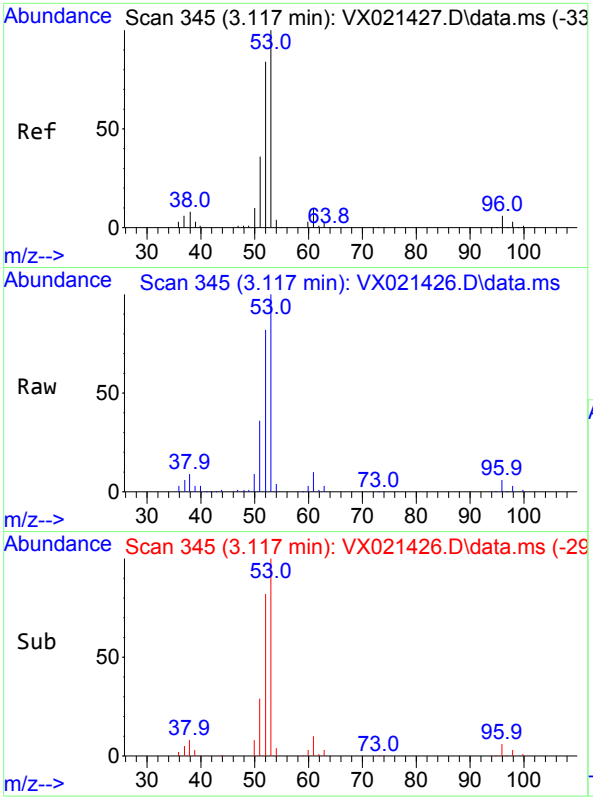
Tgt Ion: 41 Resp: 28280

Ion	Ratio	Lower	Upper
41	100		
39	74.2	51.6	77.4
76	29.7	30.5	45.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

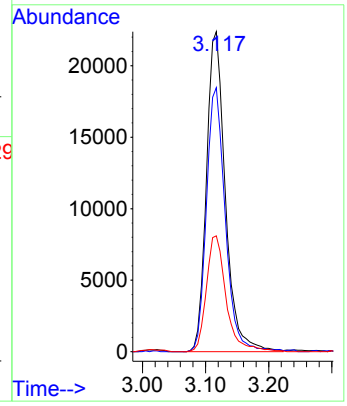
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

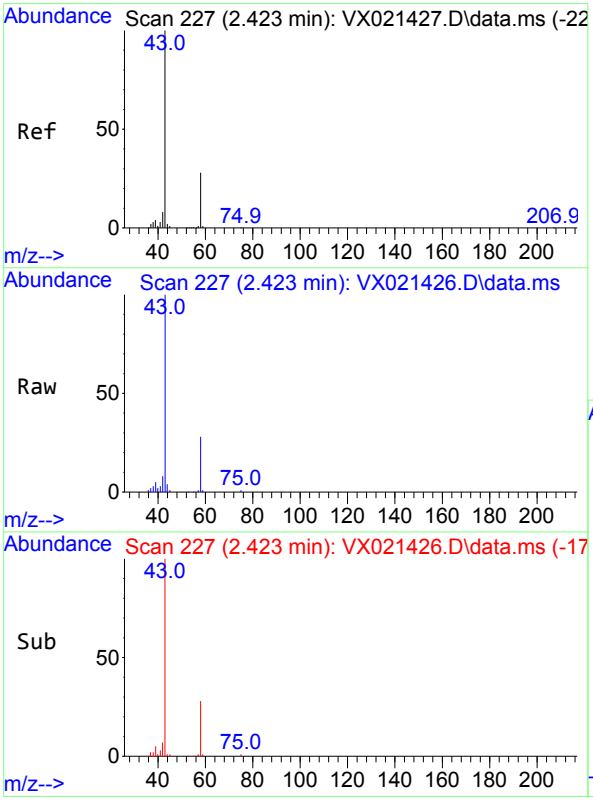


#15
Acrylonitrile
Concen: 94.26 ug/l
RT: 3.117 min Scan# 345
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 53 Resp: 46522

Ion	Ratio	Lower	Upper
53	100		
52	82.5	65.3	97.9
51	37.9	28.2	42.2

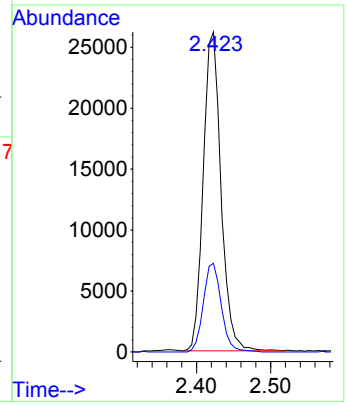




#16
Acetone
Concen: 93.03 ug/l
RT: 2.423 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

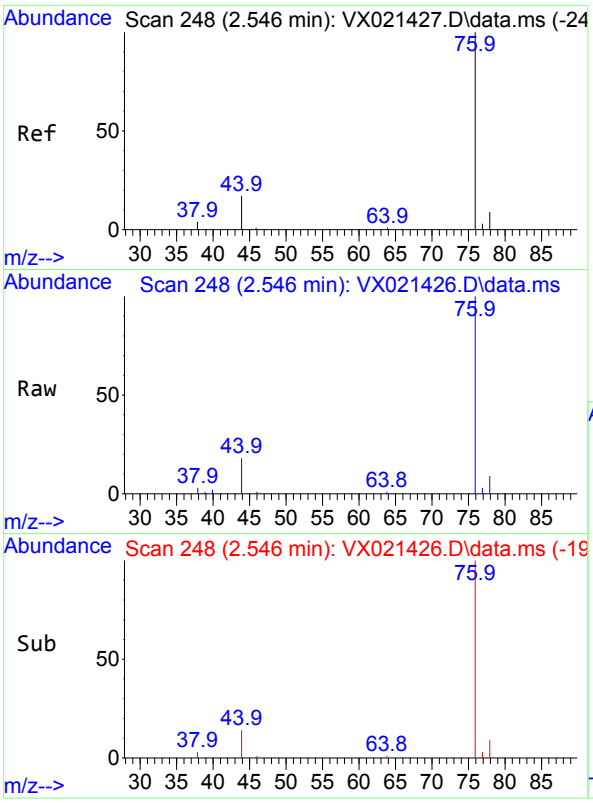
Tgt Ion: 43 Resp: 43424

Ion	Ratio	Lower	Upper
43	100		
58	27.8	27.8	41.8#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

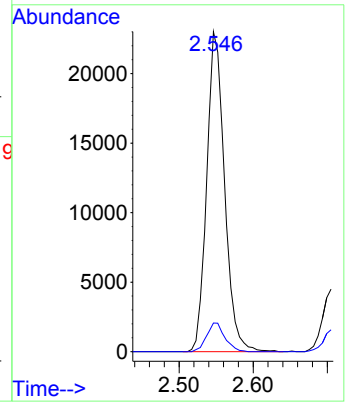
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

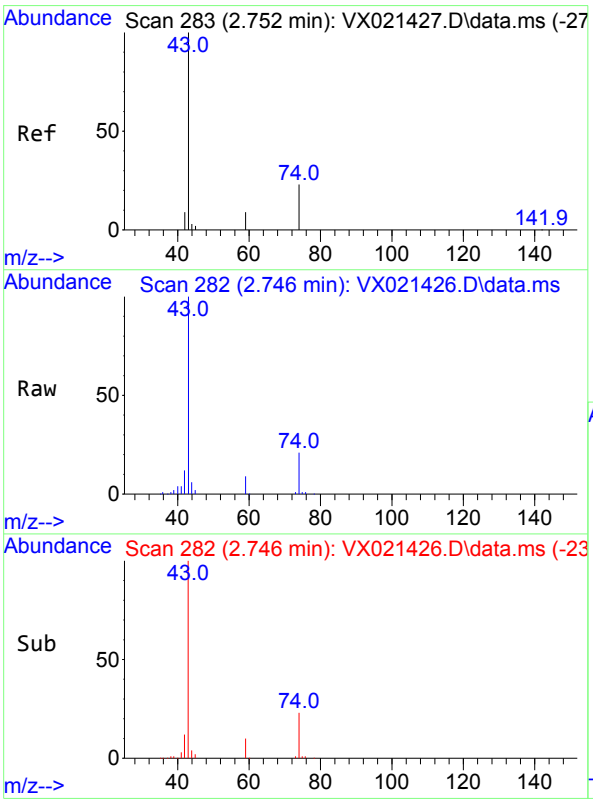


#17
Carbon Disulfide
Concen: 16.05 ug/l
RT: 2.546 min Scan# 248
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 76 Resp: 38537

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

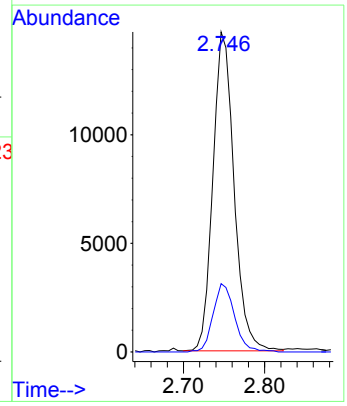




#18
Methyl Acetate
Concen: 20.29 ug/l
RT: 2.746 min Scan# 282
Delta R.T. -0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

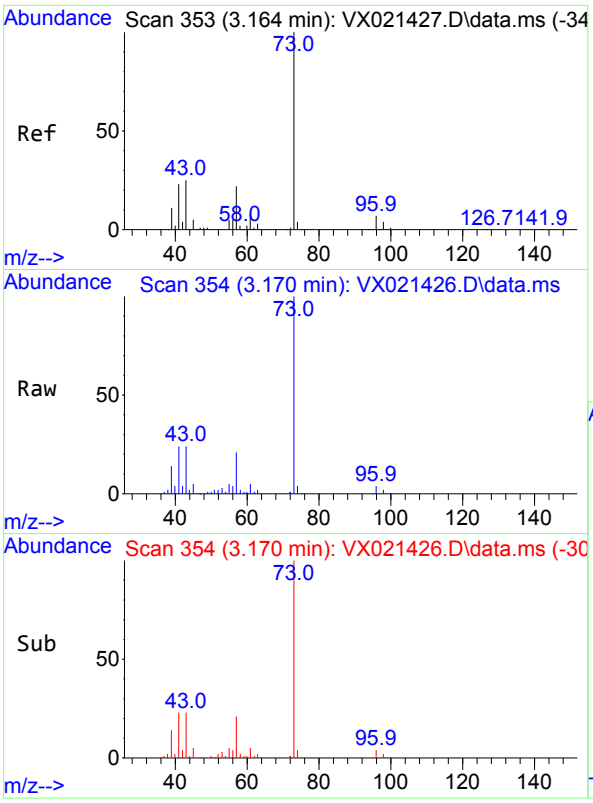
Tgt Ion: 43 Resp: 26541

Ion	Ratio	Lower	Upper
43	100		
74	21.9	21.9	32.9#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

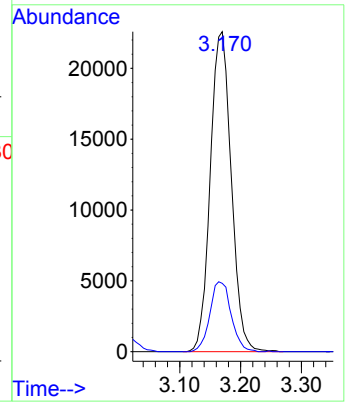
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

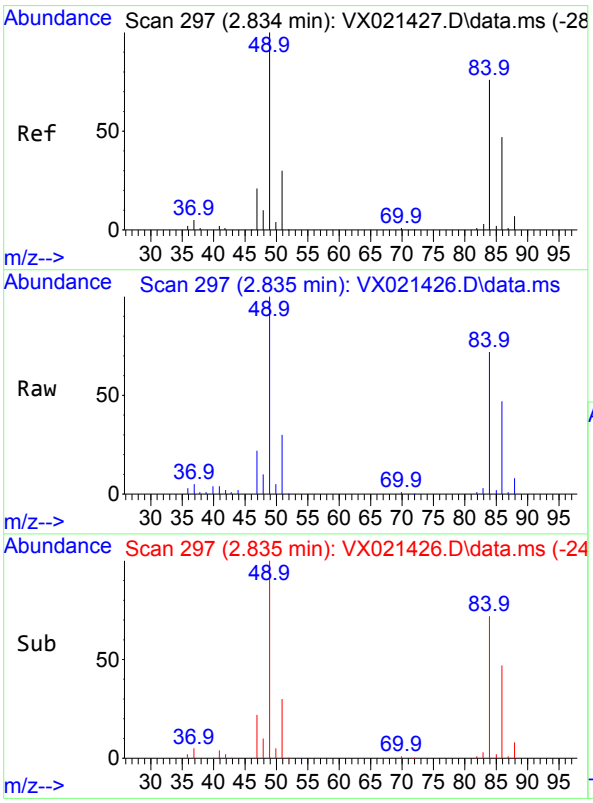


#19
Methyl tert-butyl Ether
Concen: 18.53 ug/l
RT: 3.170 min Scan# 354
Delta R.T. 0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 73 Resp: 54065

Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.1	25.7

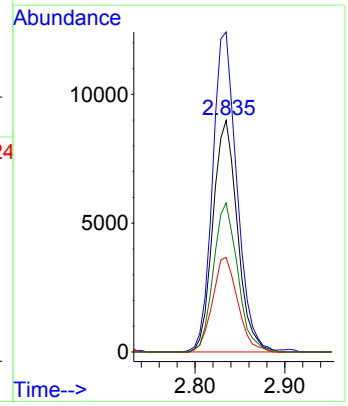




#20
Methylene Chloride
Concen: 17.88 ug/l
RT: 2.835 min Scan# 297
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

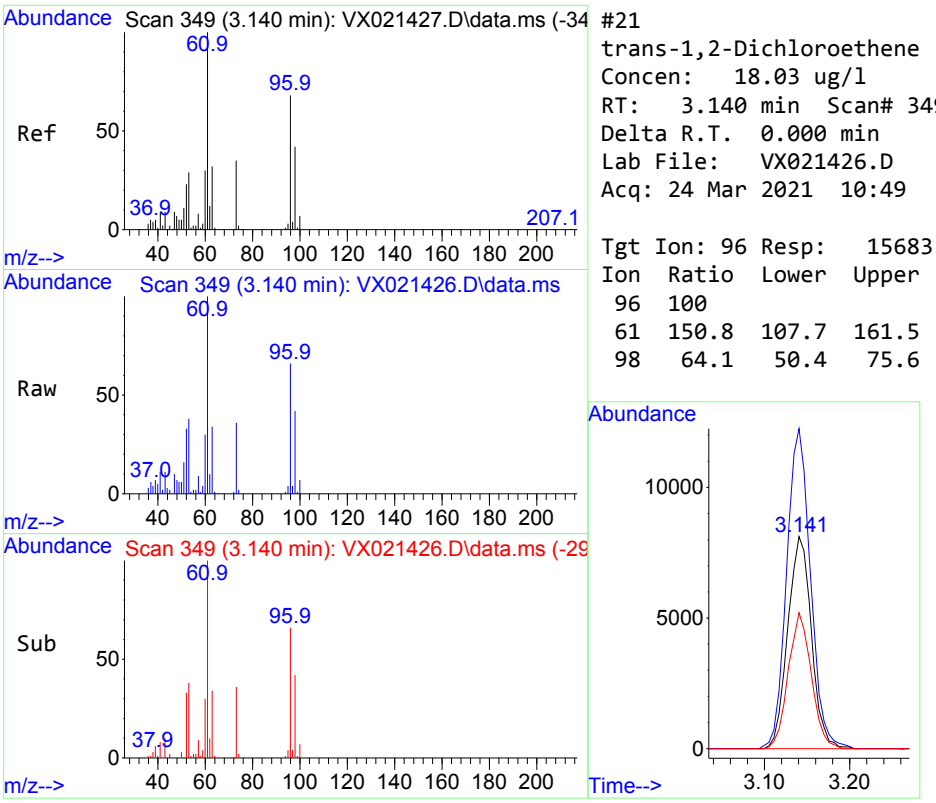
Tgt Ion: 84 Resp: 17009

Ion	Ratio	Lower	Upper
84	100		
49	138.2	88.6	132.8#
51	40.9	27.0	40.6#
86	64.3	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

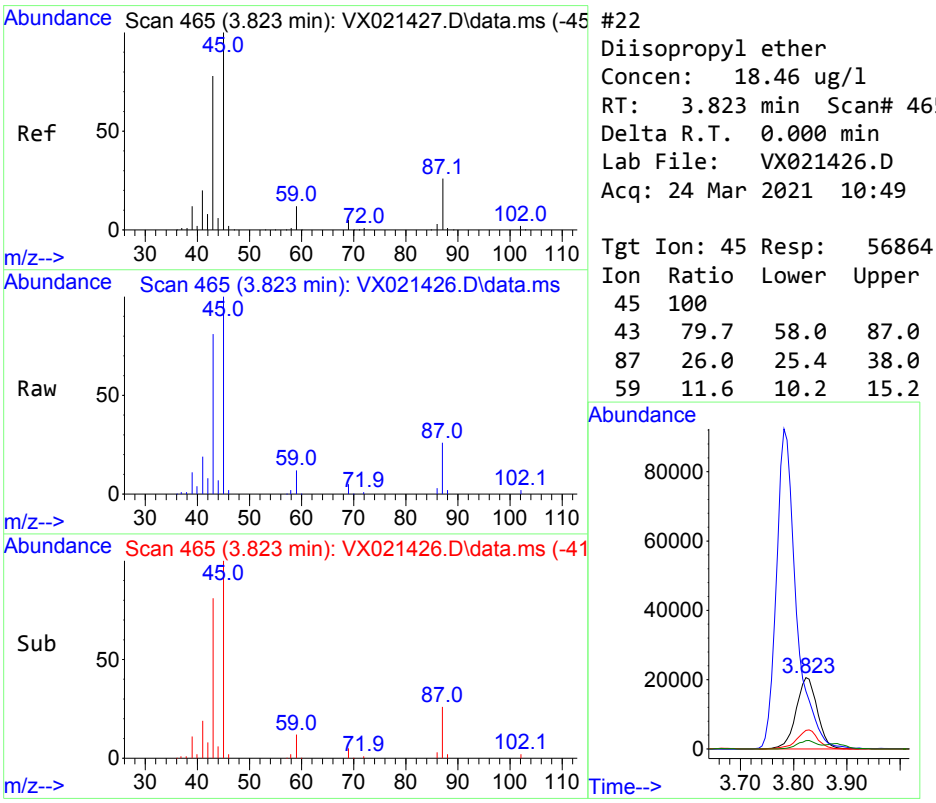
Manual Integrations APPROVED
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#21
trans-1,2-Dichloroethene
Concen: 18.03 ug/l
RT: 3.140 min Scan# 349
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 96 Resp: 15683

Ion	Ratio	Lower	Upper
96	100		
61	150.8	107.7	161.5
98	64.1	50.4	75.6



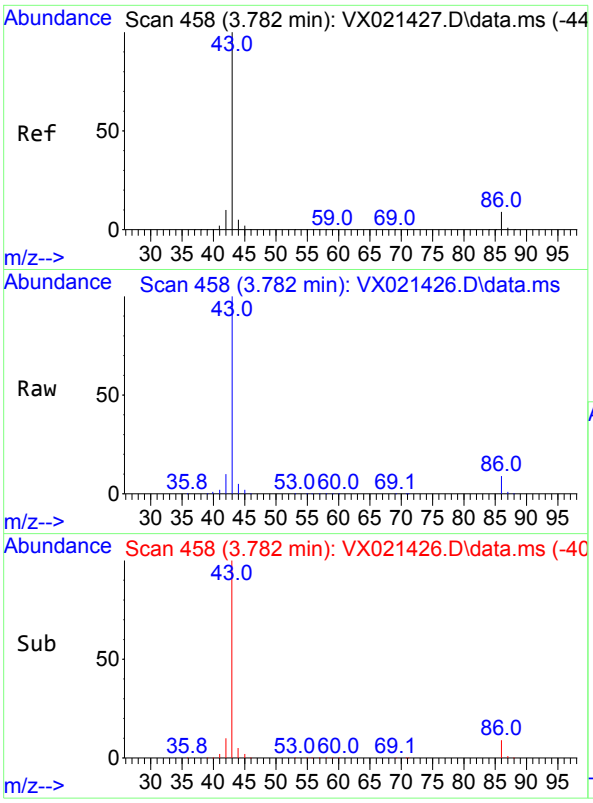
#22
Diisopropyl ether
Concen: 18.46 ug/l
RT: 3.823 min Scan# 465
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 45 Resp: 56864

Ion	Ratio	Lower	Upper
45	100		
43	79.7	58.0	87.0
87	26.0	25.4	38.0
59	11.6	10.2	15.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

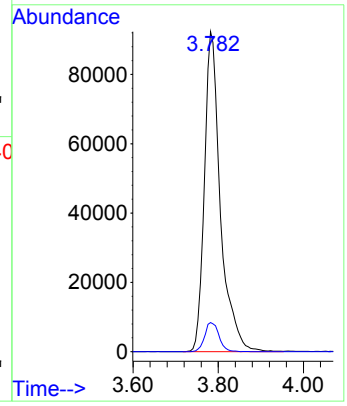
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

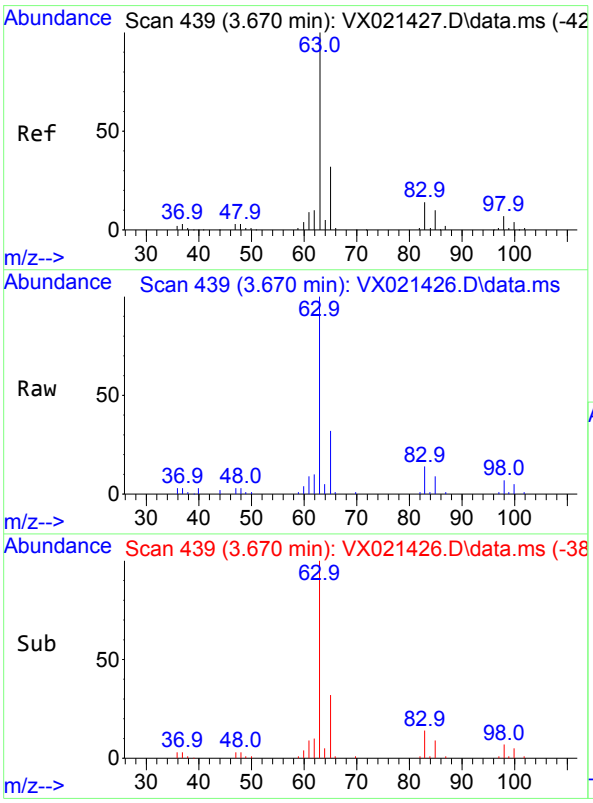


#23
Vinyl Acetate
Concen: 90.26 ug/l
RT: 3.782 min Scan# 458
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 43 Resp: 240672

Ion	Ratio	Lower	Upper
43	100		
86	9.1	9.9	14.9#

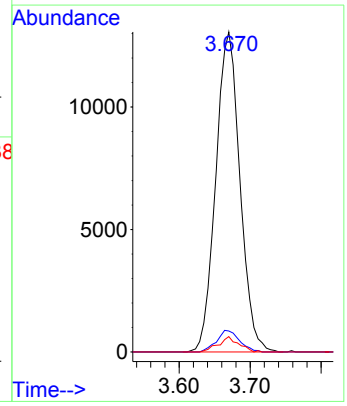




#24
1,1-Dichloroethane
Concen: 18.50 ug/l
RT: 3.670 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

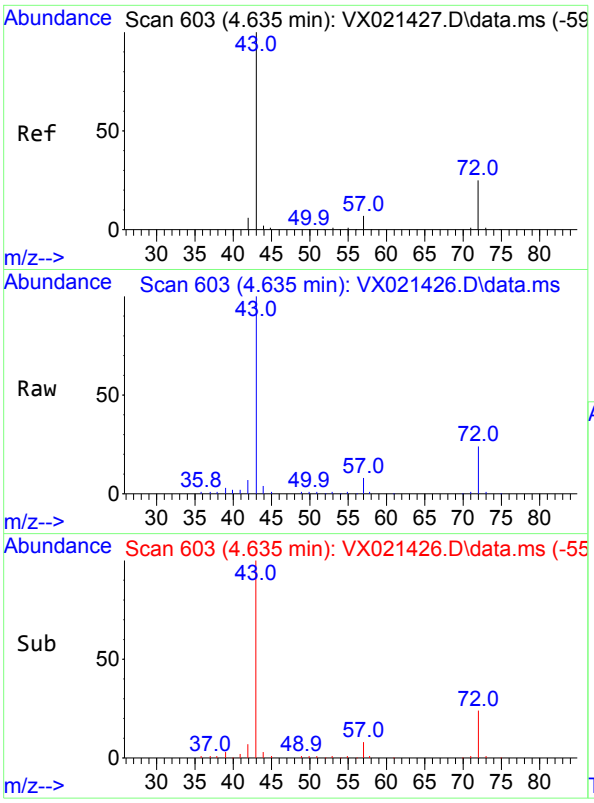
Tgt Ion: 63 Resp: 30829

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.8	11.2
100	4.8	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

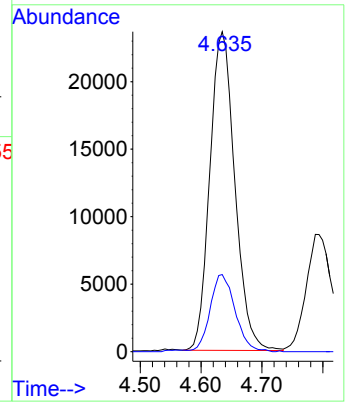
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

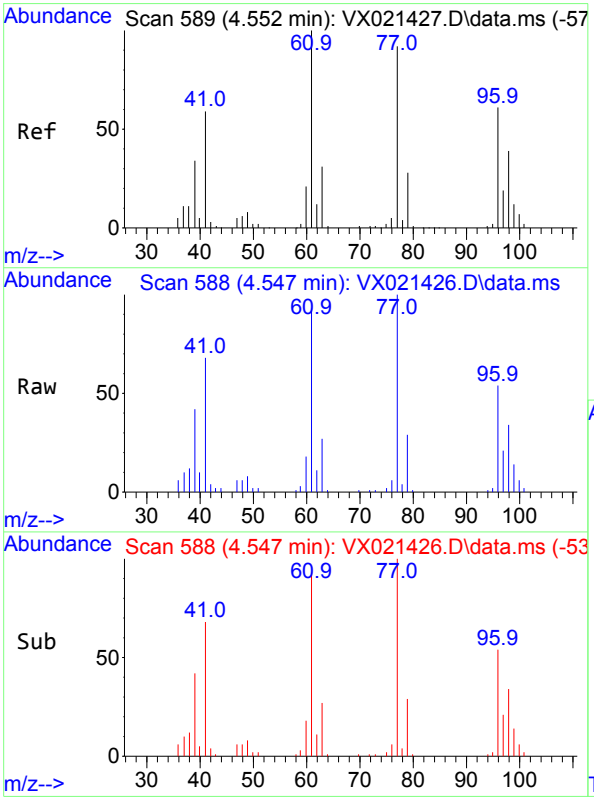


#25
2-Butanone
Concen: 94.36 ug/l
RT: 4.635 min Scan# 603
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 43 Resp: 67343

Ion	Ratio	Lower	Upper
43	100		
72	24.2	23.7	35.5

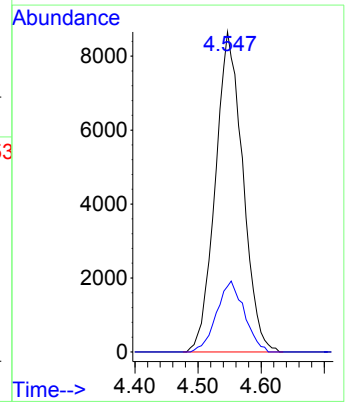




#26
2,2-Dichloropropane
Concen: 18.04 ug/l
RT: 4.547 min Scan# 588
Delta R.T. -0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

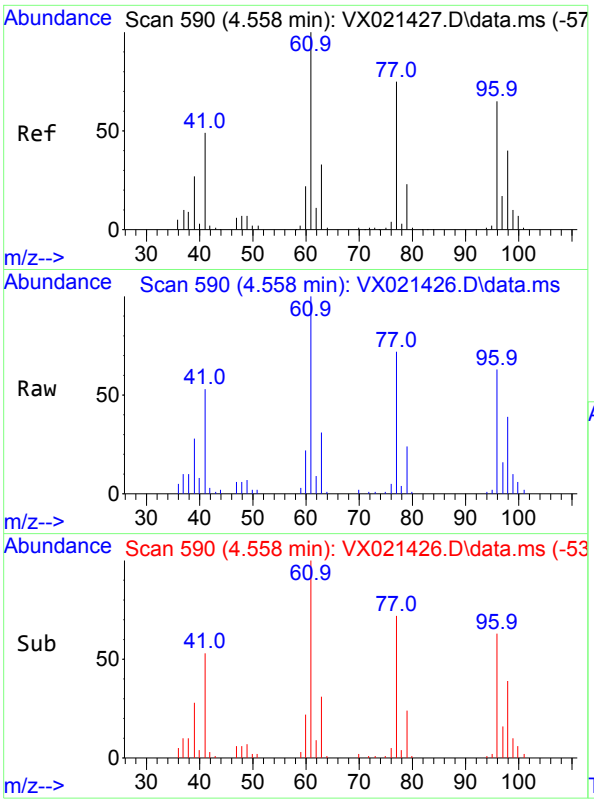
Tgt Ion: 77 Resp: 26154

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

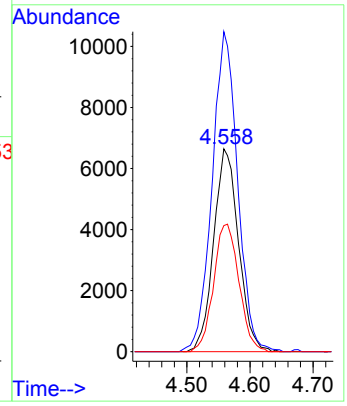
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

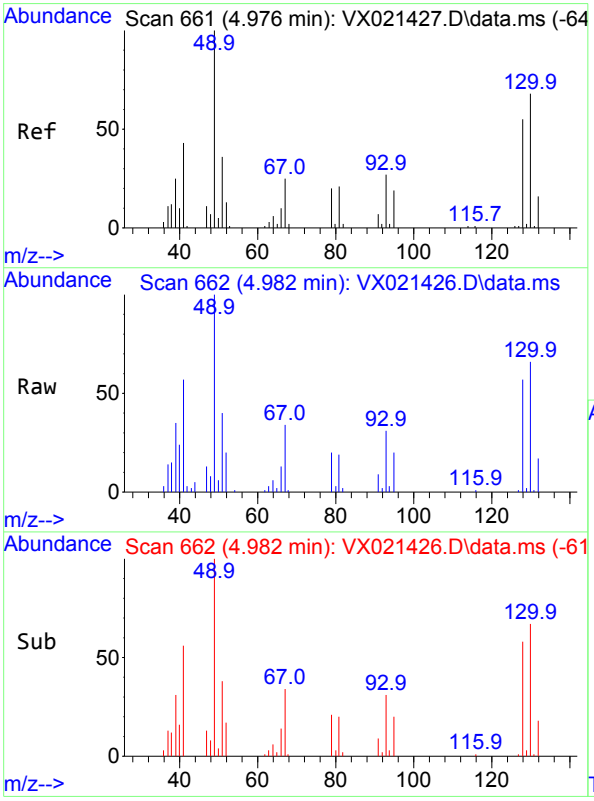


#27
cis-1,2-Dichloroethene
Concen: 18.18 ug/l
RT: 4.558 min Scan# 590
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 96 Resp: 18193

Ion	Ratio	Lower	Upper
96	100		
61	161.7	0.0	285.6
98	64.1	0.0	129.6

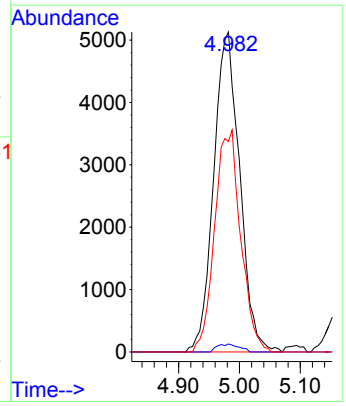




#28
Bromochloromethane
Concen: 19.38 ug/l
RT: 4.982 min Scan# 662
Delta R.T. 0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

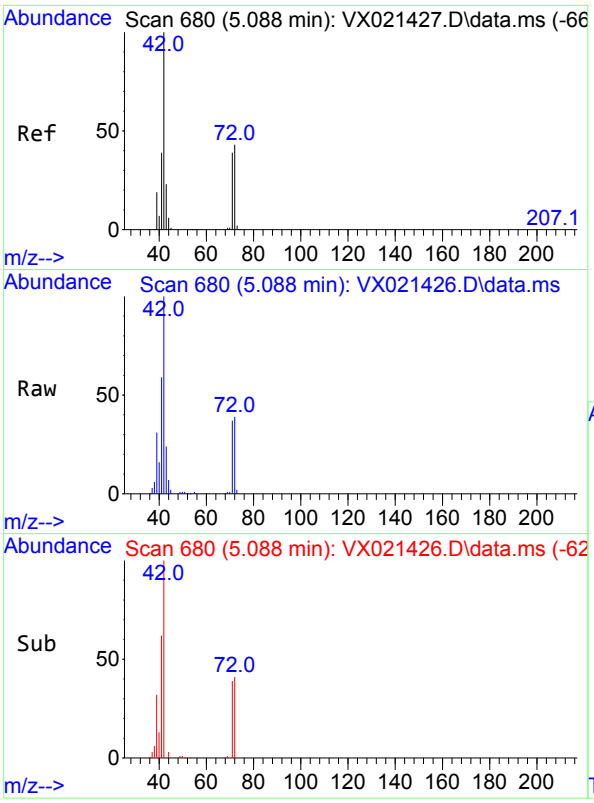
Tgt Ion: 49 Resp: 15247

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	69.2	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

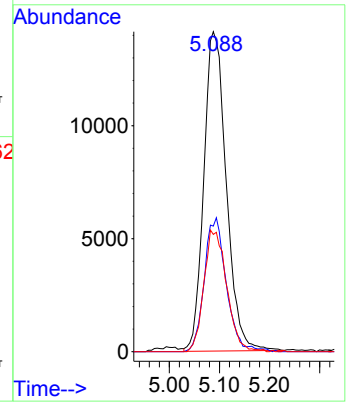
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

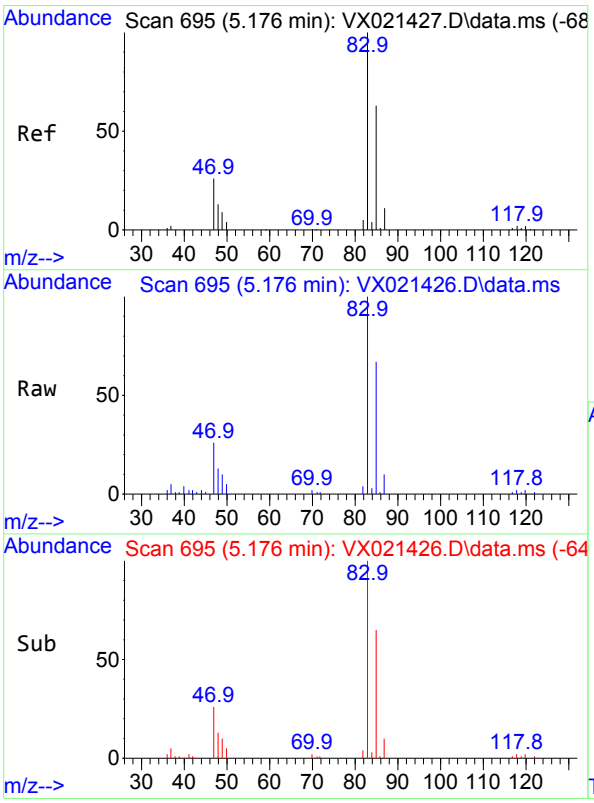


#29
Tetrahydrofuran
Concen: 93.63 ug/l
RT: 5.088 min Scan# 680
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 42 Resp: 44037

Ion	Ratio	Lower	Upper
42	100		
72	41.0	41.7	62.5#
71	38.6	38.4	57.6

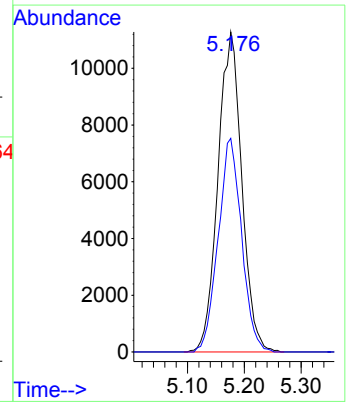




#30
Chloroform
Concen: 18.94 ug/l
RT: 5.176 min Scan# 695
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

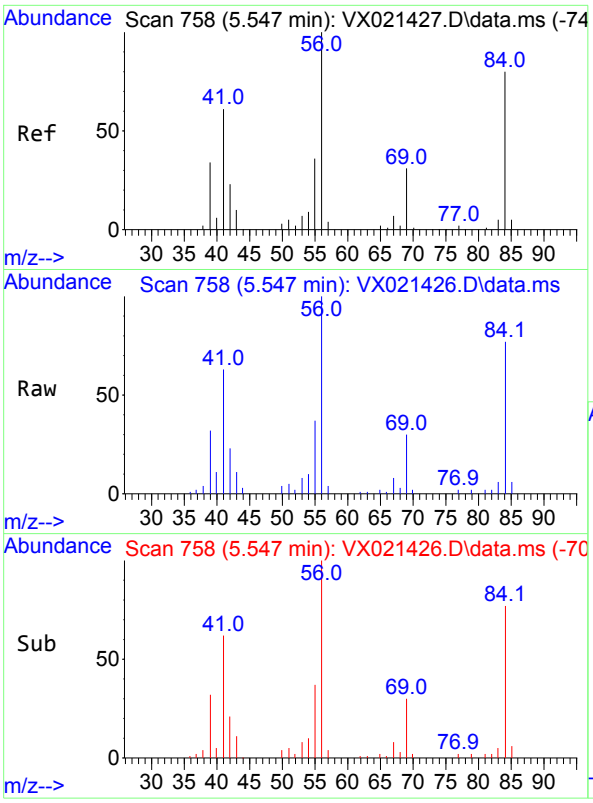
Tgt Ion: 83 Resp: 32866

Ion	Ratio	Lower	Upper
83	100		
85	66.7	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

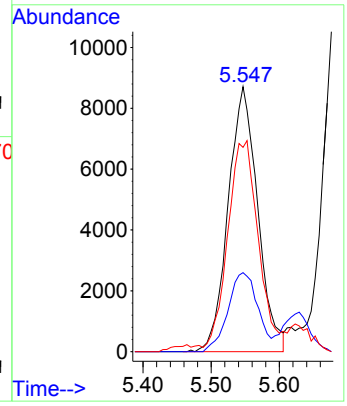
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

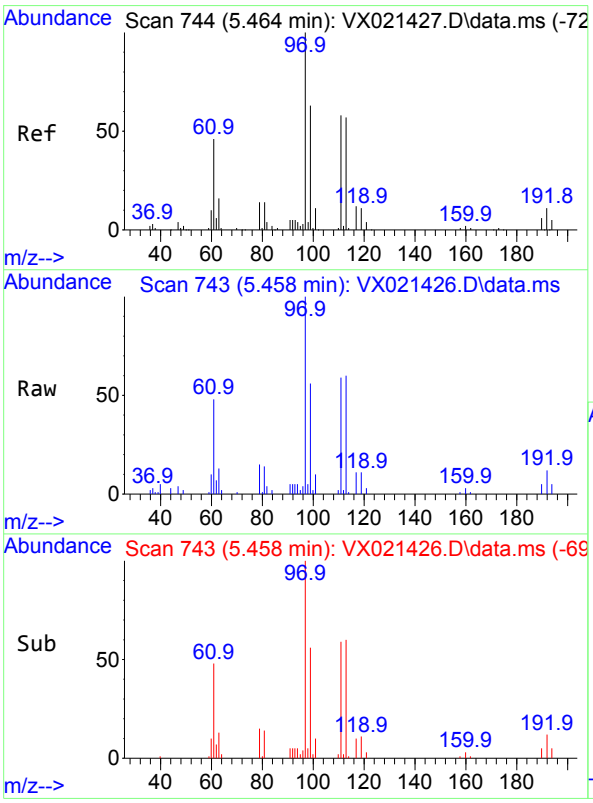


#31
Cyclohexane
Concen: 17.44 ug/l
RT: 5.547 min Scan# 758
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 56 Resp: 26219

Ion	Ratio	Lower	Upper
56	100		
69	29.8	25.3	37.9
84	75.2	71.4	107.0

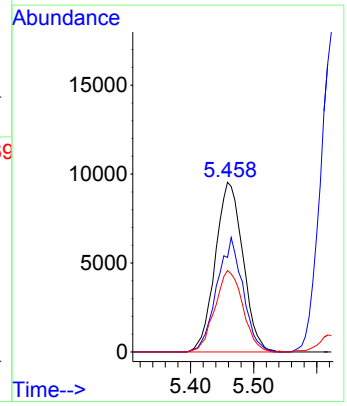




#32
1,1,1-Trichloroethane
Concen: 18.89 ug/l
RT: 5.458 min Scan# 743
Delta R.T. -0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

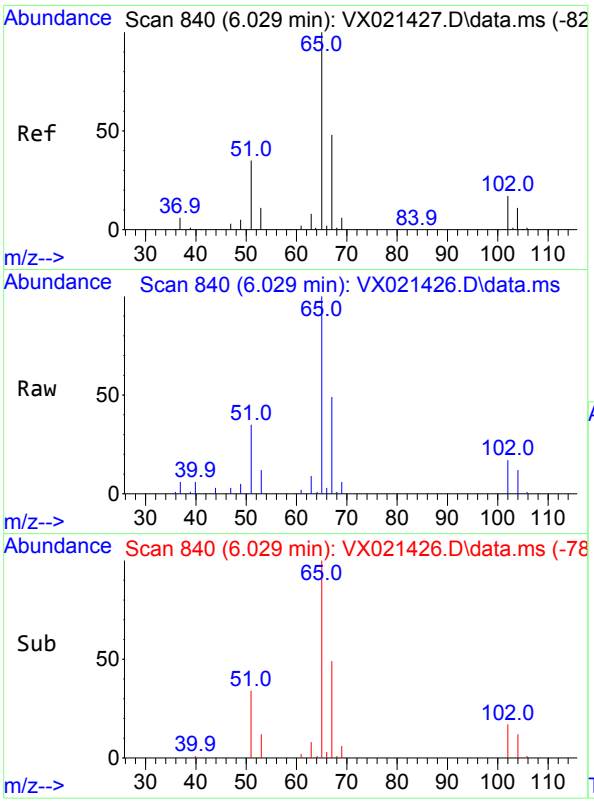
Tgt Ion: 97 Resp: 29065

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.5	77.3
61	48.3	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

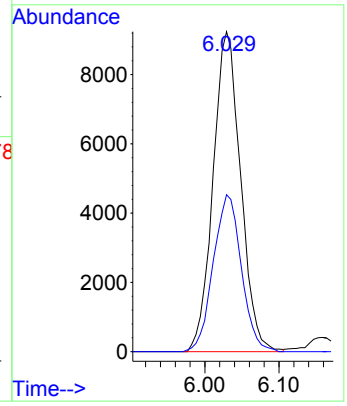
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

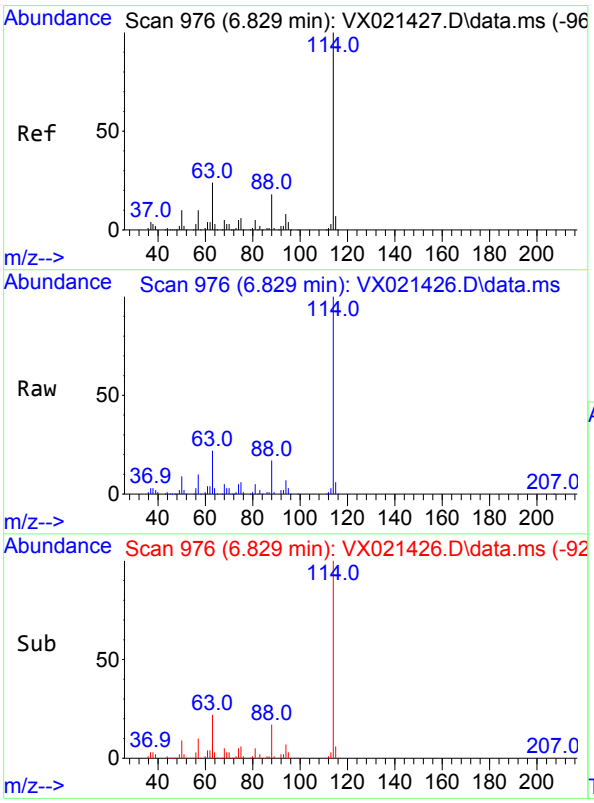


#33
1,2-Dichloroethane-d4
Concen: 18.94 ug/l
RT: 6.029 min Scan# 840
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 65 Resp: 23829

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	105.4

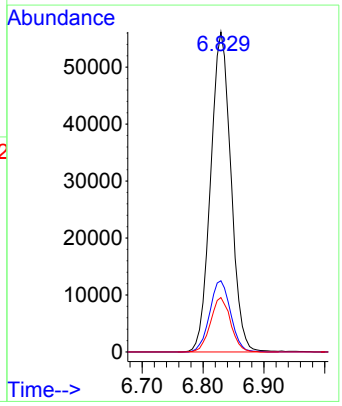




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

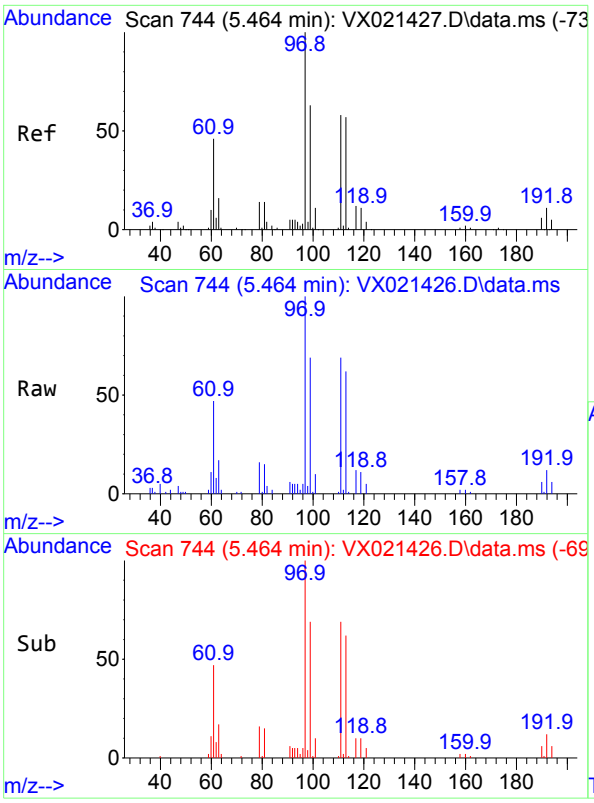
Tgt Ion:114 Resp: 130062

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	40.8
88	17.0	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

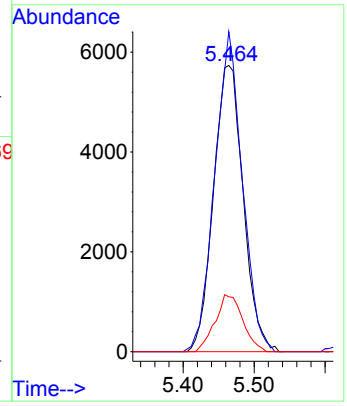
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

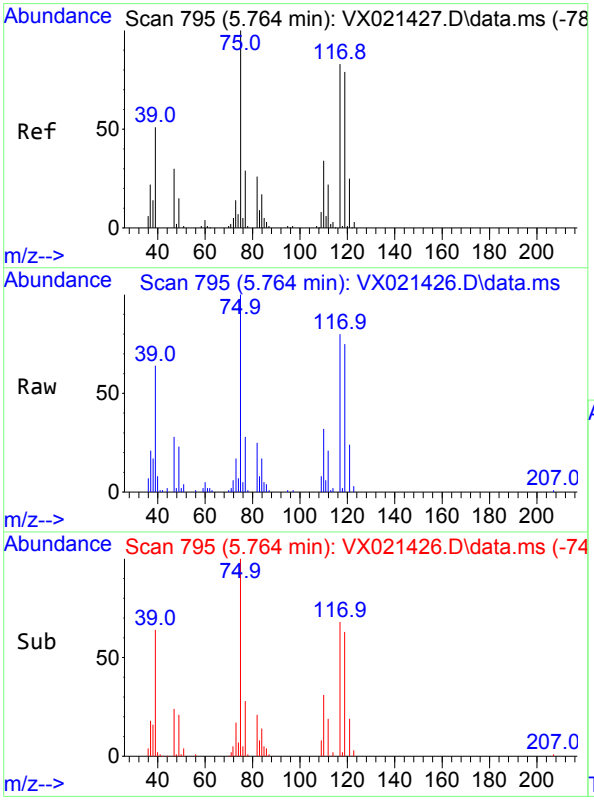


#35
Dibromofluoromethane
Concen: 18.79 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:113 Resp: 16662

Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.9	122.9
192	18.5	16.7	25.1

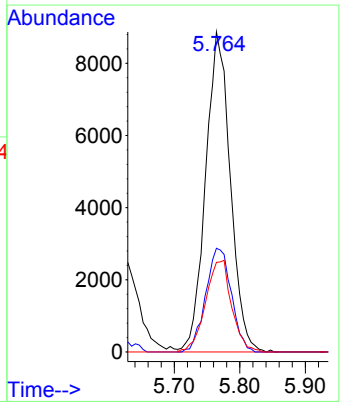




#36
1,1-Dichloropropene
Concen: 17.79 ug/l
RT: 5.764 min Scan# 795
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

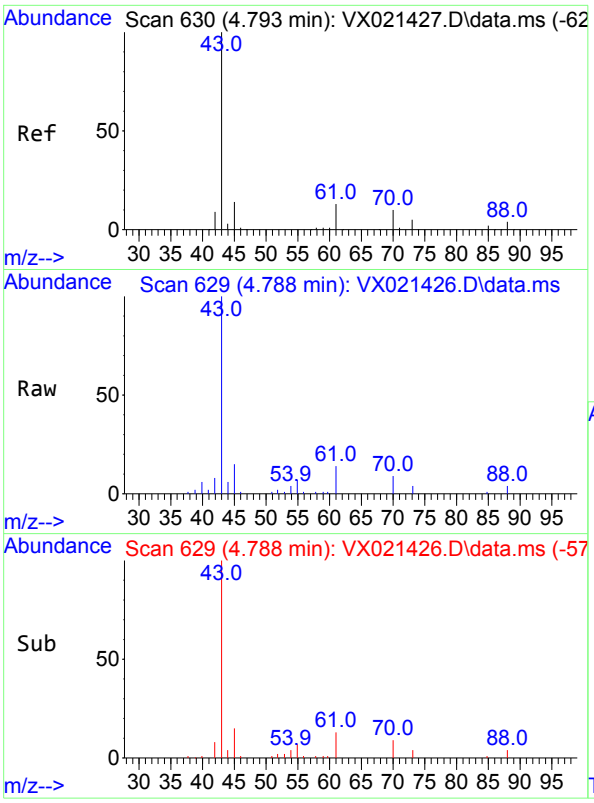
Tgt Ion: 75 Resp: 23205

Ion	Ratio	Lower	Upper
75	100		
110	33.6	18.1	54.4
77	30.2	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

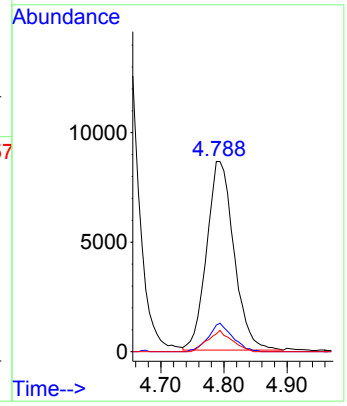
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

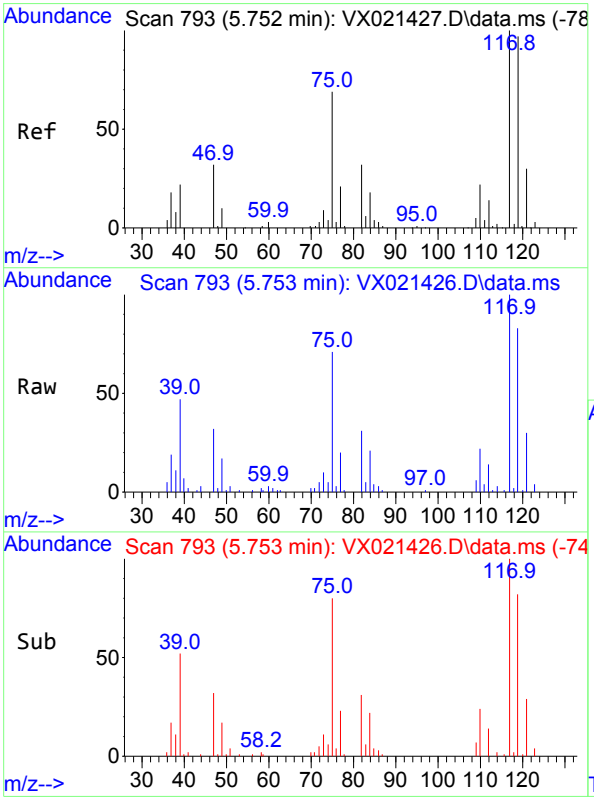


#37
Ethyl Acetate
Concen: 17.10 ug/l
RT: 4.788 min Scan# 629
Delta R.T. -0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 43 Resp: 25793

Ion	Ratio	Lower	Upper
43	100		
61	13.5	12.8	19.2
70	9.9	10.5	15.7#

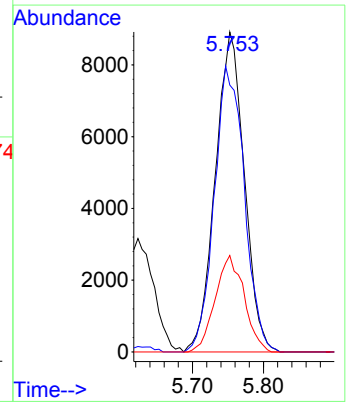




#38
Carbon Tetrachloride
Concen: 18.61 ug/l
RT: 5.753 min Scan# 793
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

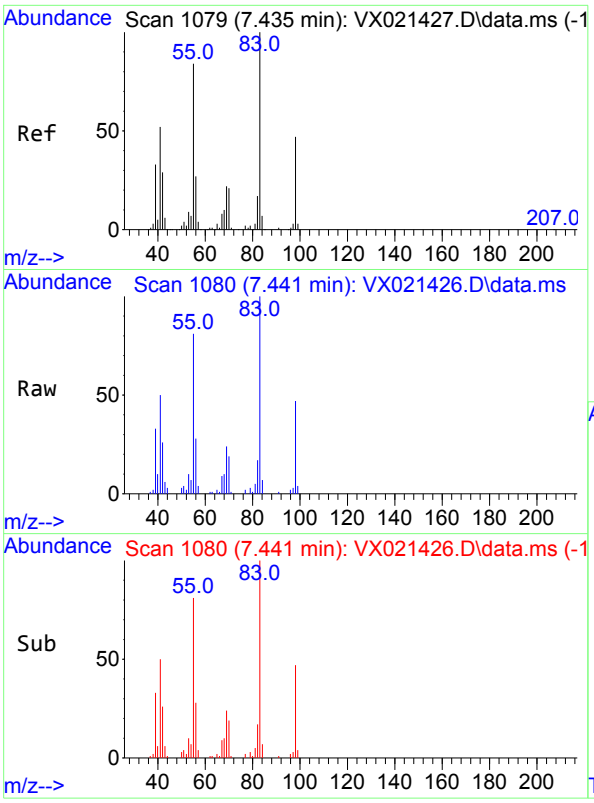
Tgt Ion:117 Resp: 25282

Ion	Ratio	Lower	Upper
117	100		
119	83.4	76.2	114.2
121	30.1	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

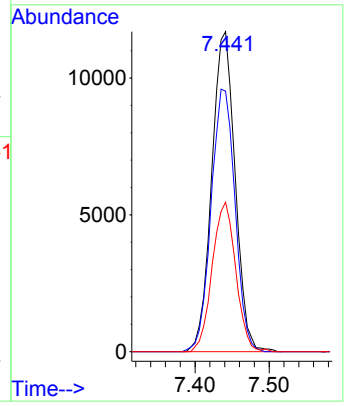
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

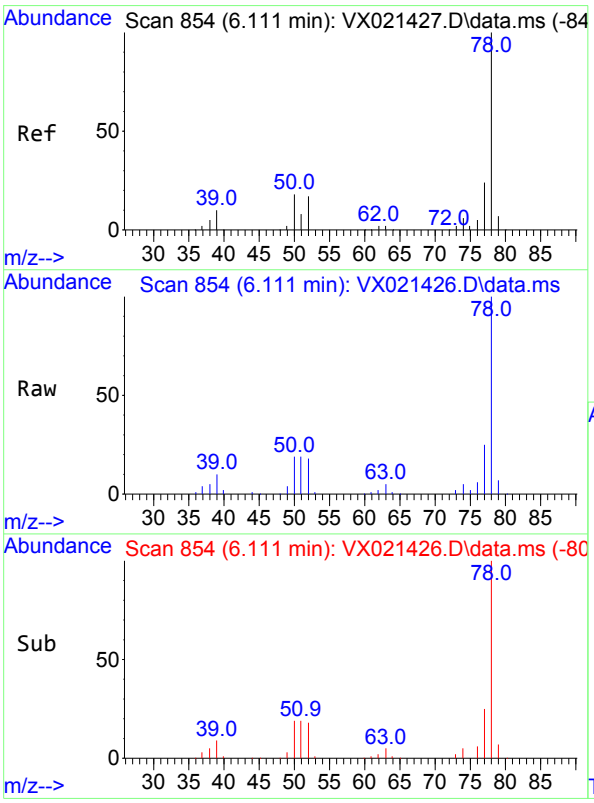


#39
Methylcyclohexane
Concen: 17.70 ug/l
RT: 7.441 min Scan# 1080
Delta R.T. 0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 83 Resp: 25640

Ion	Ratio	Lower	Upper
83	100		
55	81.4	58.9	88.3
98	46.7	38.1	57.1

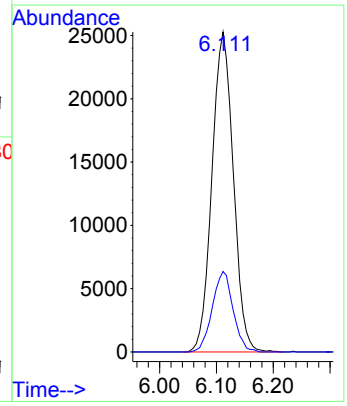




#40
Benzene
Concen: 18.32 ug/l
RT: 6.111 min Scan# 854
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

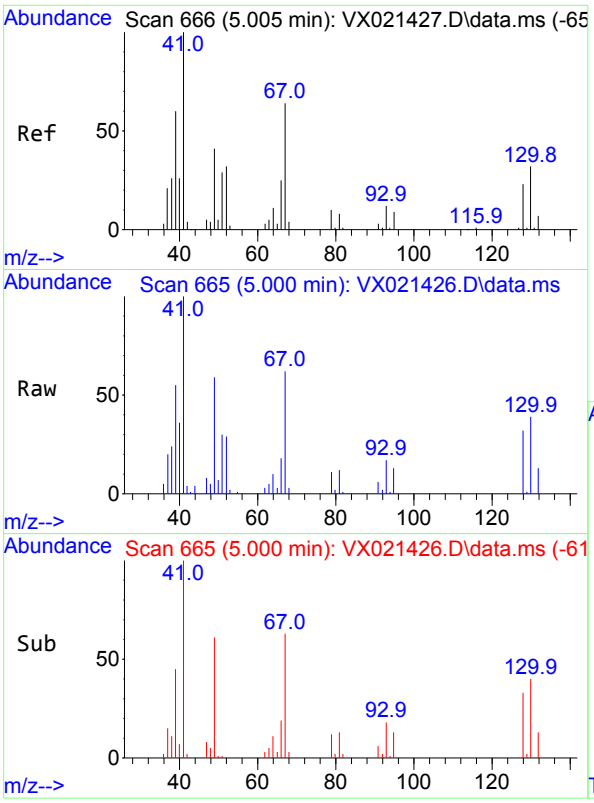
Tgt Ion: 78 Resp: 65987

Ion	Ratio	Lower	Upper
78	100		
77	25.2	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

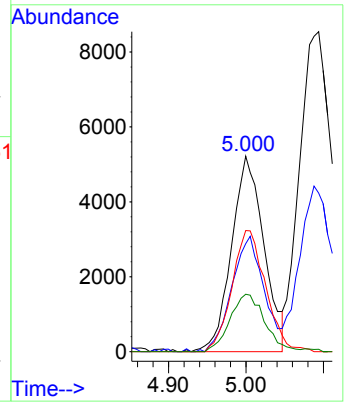
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

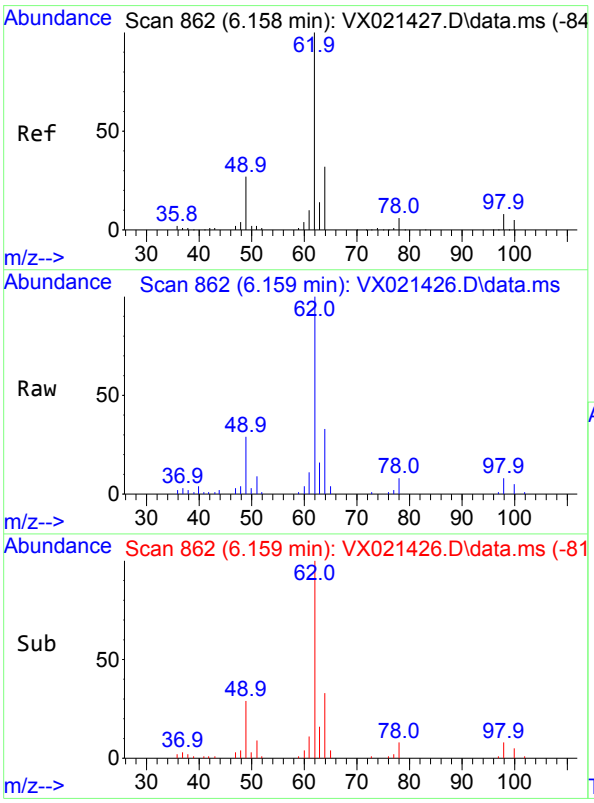


#41
Methacrylonitrile
Concen: 17.38 ug/l
RT: 5.000 min Scan# 665
Delta R.T. -0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 41 Resp: 15185

Ion	Ratio	Lower	Upper
41	100		
39	57.7	42.5	63.7
67	64.5	65.0	97.6#
52	31.4	25.3	37.9

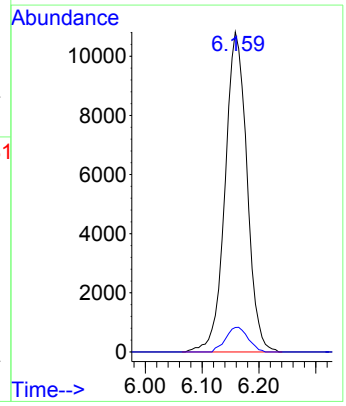




#42
1,2-Dichloroethane
Concen: 18.59 ug/l
RT: 6.159 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

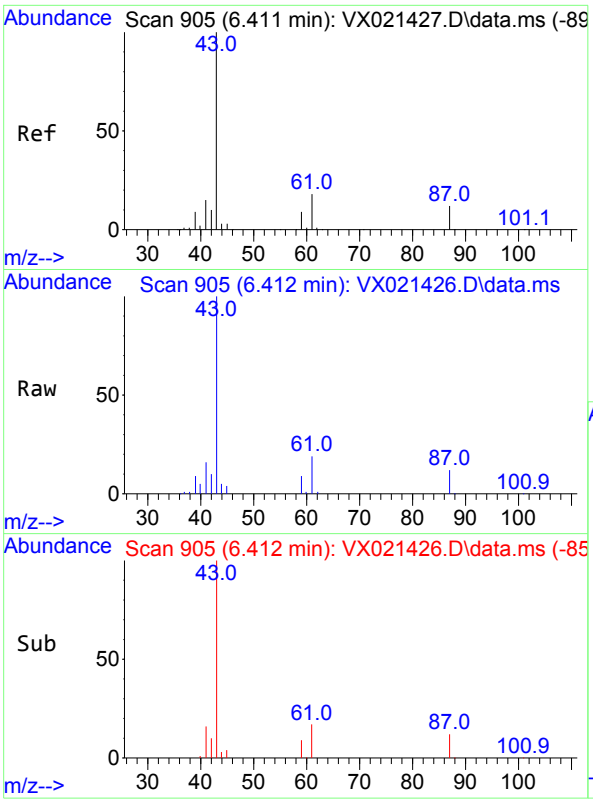
Tgt Ion: 62 Resp: 28976

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

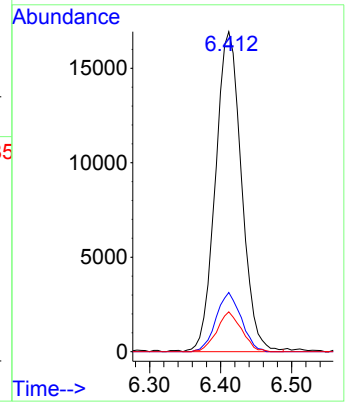
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

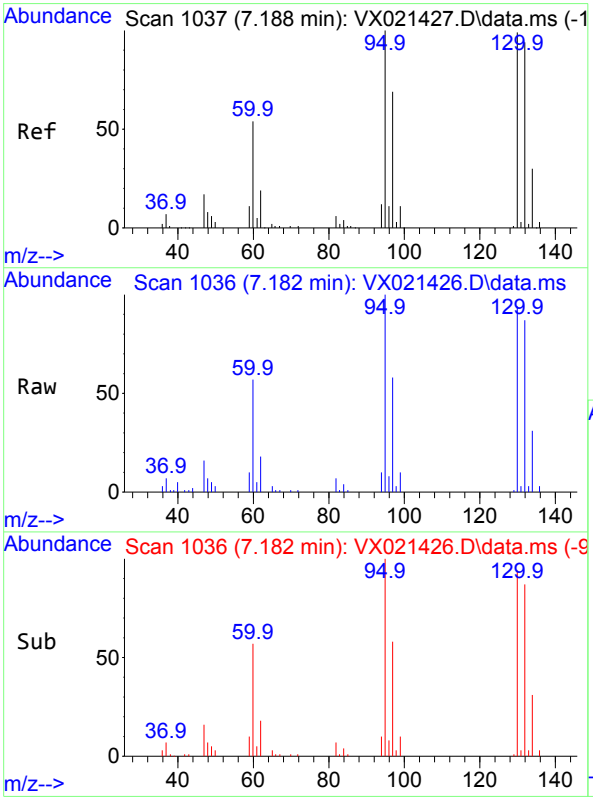


#43
Isopropyl Acetate
Concen: 17.35 ug/l
RT: 6.412 min Scan# 905
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 43 Resp: 42928

Ion	Ratio	Lower	Upper
43	100		
61	18.0	18.2	27.4#
87	11.9	12.5	18.7#

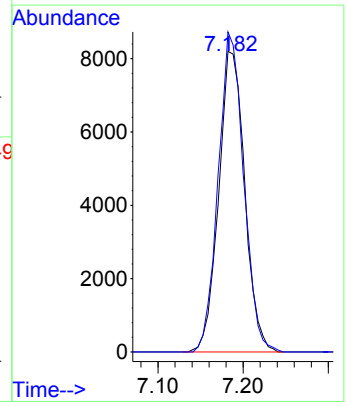




#44
Trichloroethene
Concen: 18.23 ug/l
RT: 7.182 min Scan# 1036
Delta R.T. -0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

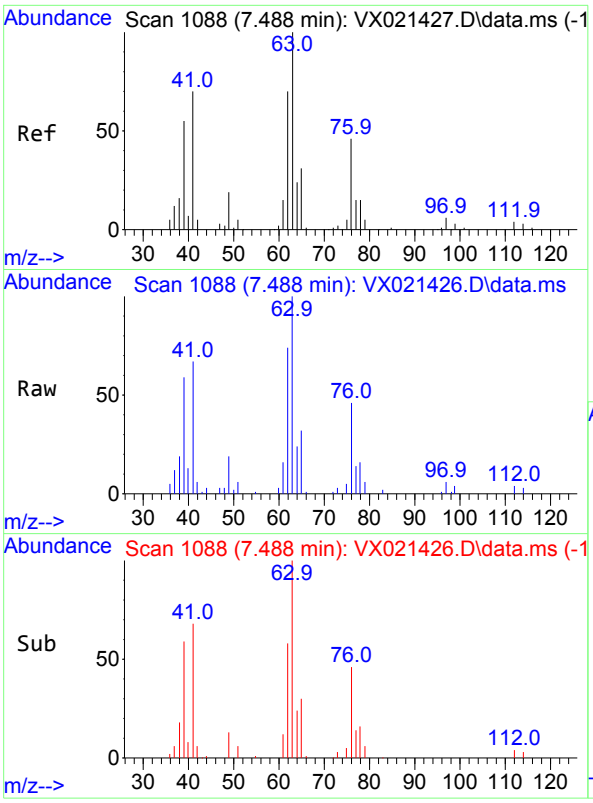
Tgt Ion:130 Resp: 17424

Ion	Ratio	Lower	Upper
130	100		
95	106.5	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

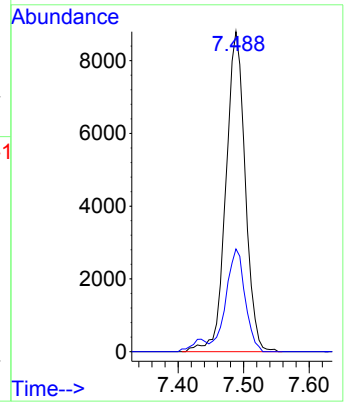
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

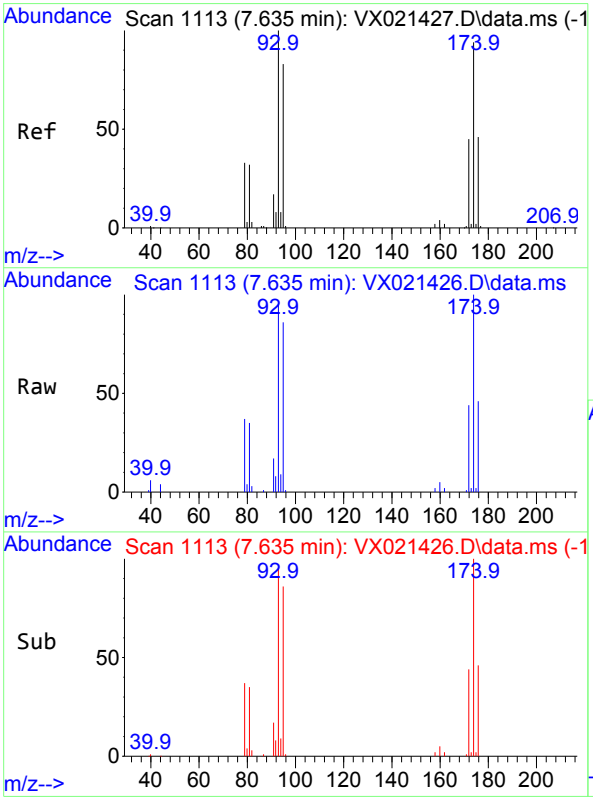


#45
1,2-Dichloropropane
Concen: 18.49 ug/l
RT: 7.488 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 63 Resp: 17931

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.7	38.5

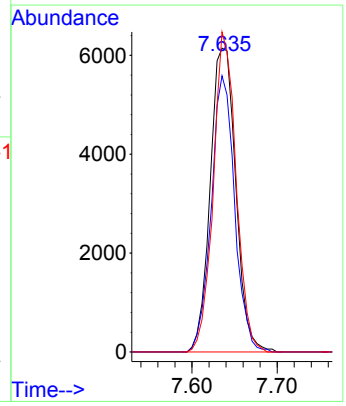




#46
Dibromomethane
Concen: 17.98 ug/l
RT: 7.635 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

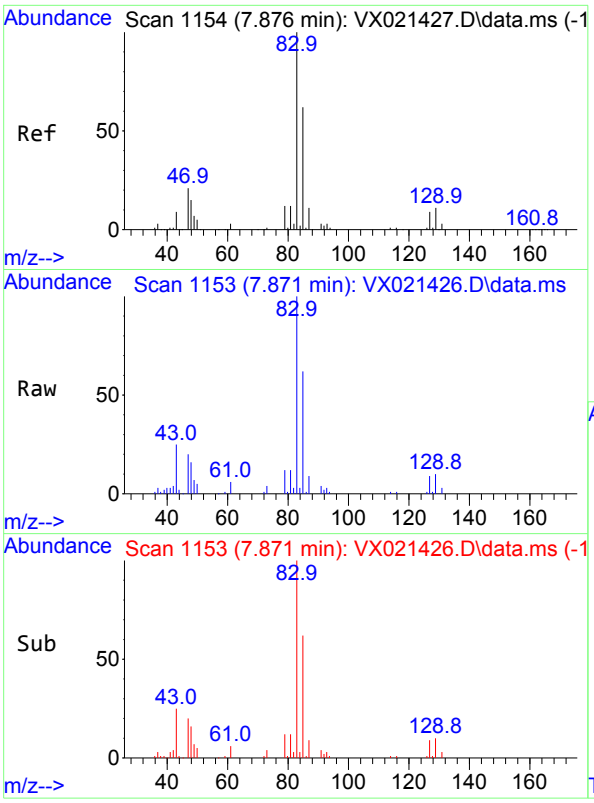
Tgt Ion: 93 Resp: 12794

Ion	Ratio	Lower	Upper
93	100		
95	83.3	66.8	100.2
174	93.8	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

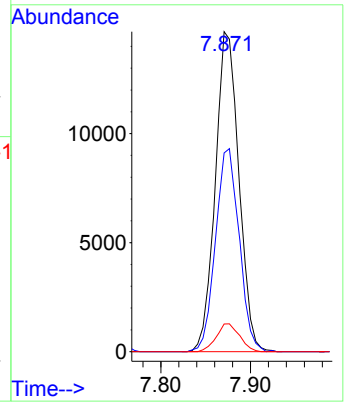
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

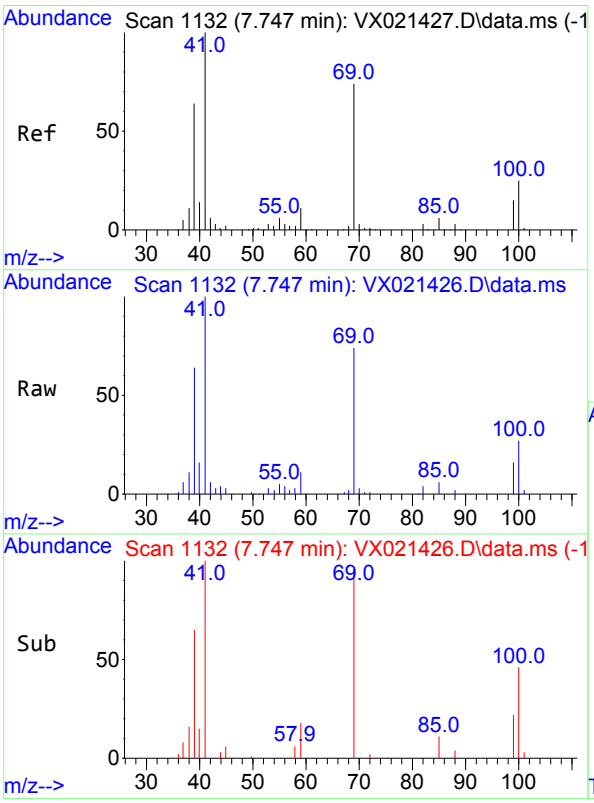


#47
Bromodichloromethane
Concen: 18.79 ug/l
RT: 7.871 min Scan# 1153
Delta R.T. -0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 83 Resp: 26757

Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.4	77.0
127	8.6	6.8	10.2

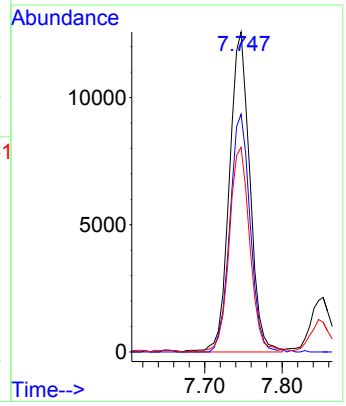




#48
Methyl methacrylate
Concen: 17.47 ug/l
RT: 7.747 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

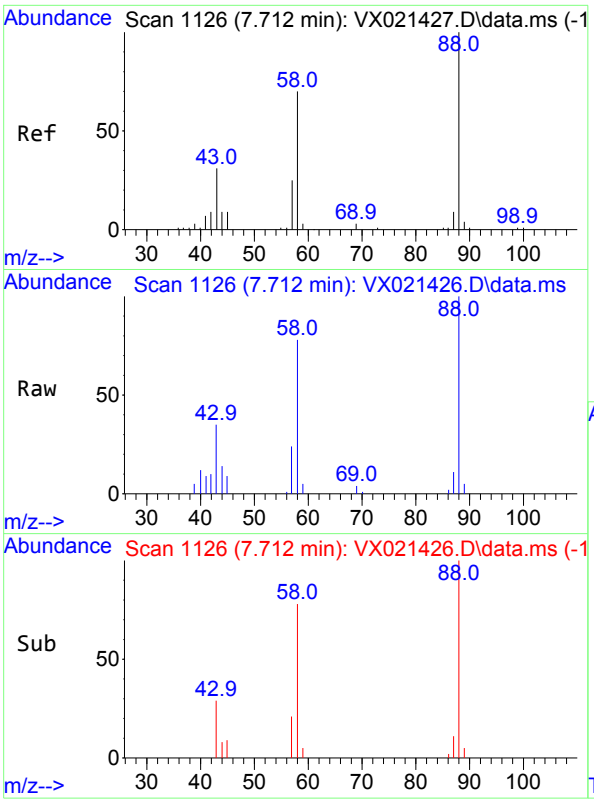
Tgt Ion: 41 Resp: 23054

Ion	Ratio	Lower	Upper
41	100		
69	73.9	76.0	114.0#
39	64.7	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

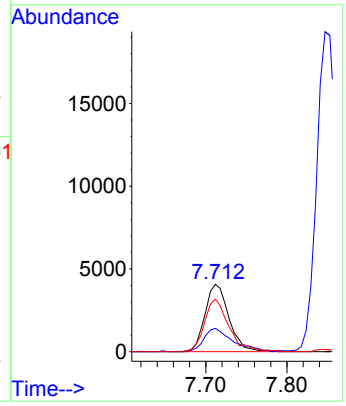
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

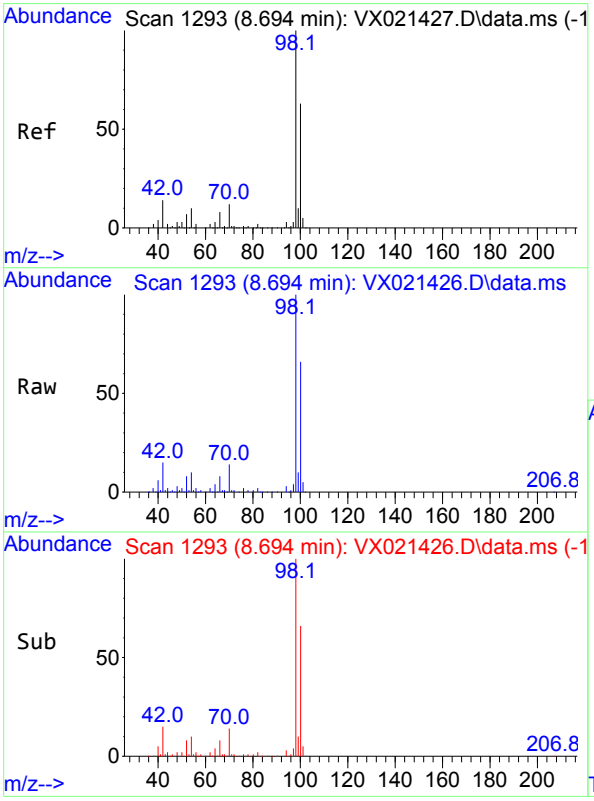


#49
1,4-Dioxane
Concen: 338.96 ug/l
RT: 7.712 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 88 Resp: 8298

Ion	Ratio	Lower	Upper
88	100		
43	41.8	23.2	34.8#
58	79.7	55.0	82.4

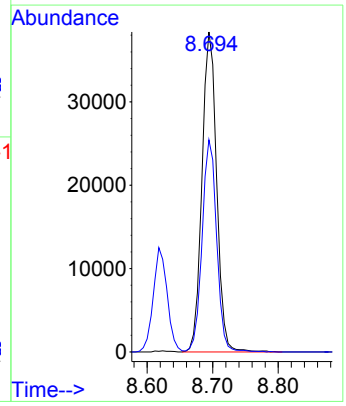




#50
Toluene-d8
Concen: 18.51 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

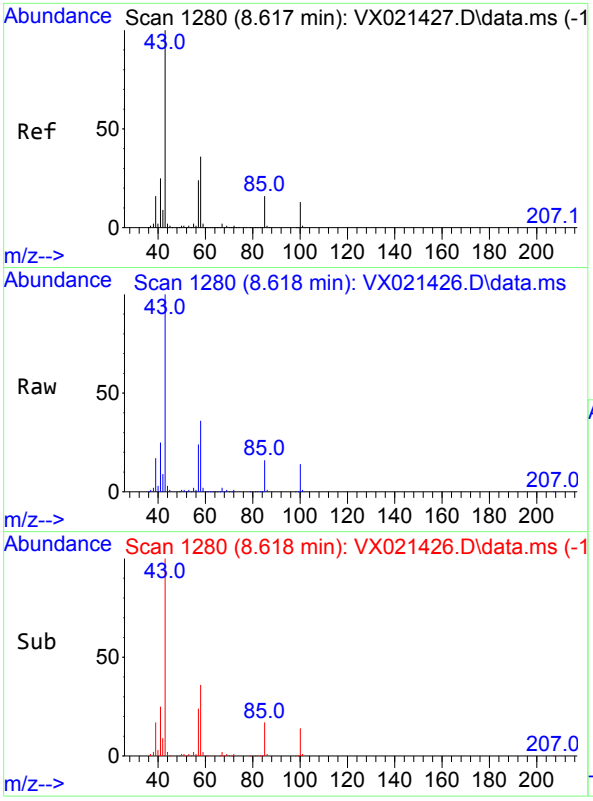
Tgt Ion: 98 Resp: 59815

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

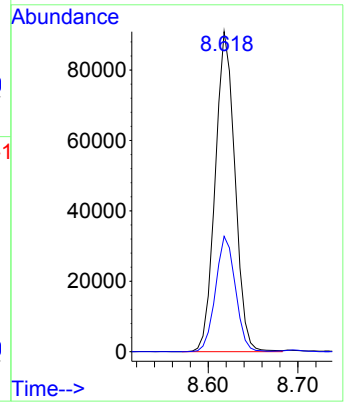
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

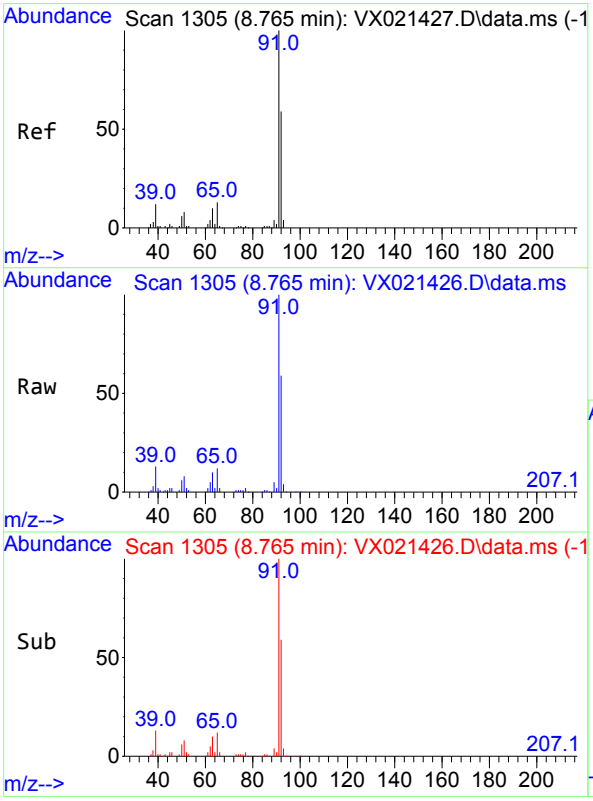


#51
4-Methyl-2-Pentanone
Concen: 95.53 ug/l
RT: 8.618 min Scan# 1280
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 43 Resp: 138866

Ion	Ratio	Lower	Upper
43	100		
58	36.3	35.4	53.0

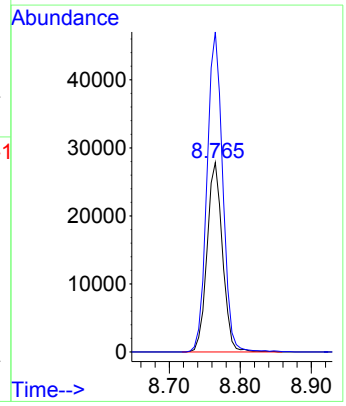




#52
Toluene
Concen: 18.90 ug/l
RT: 8.765 min Scan# 1305
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

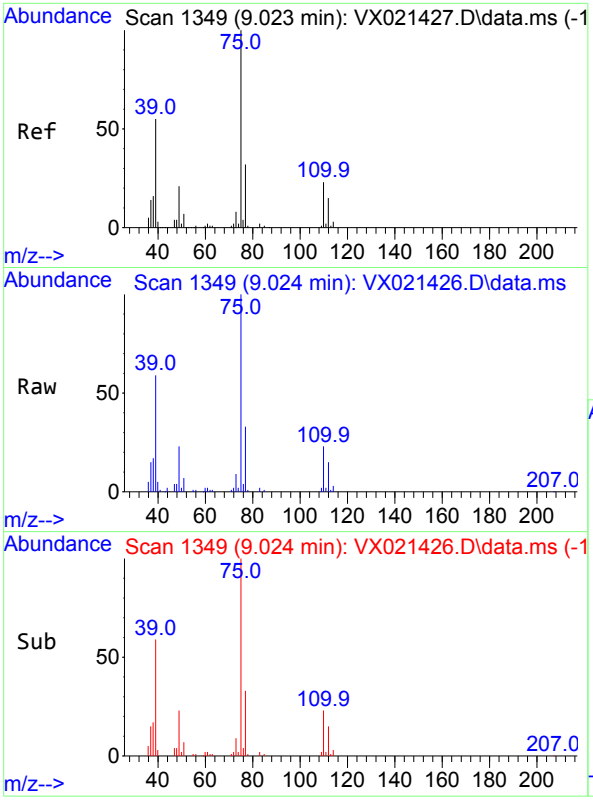
Tgt Ion: 92 Resp: 42135

Ion	Ratio	Lower	Upper
92	100		
91	171.9	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

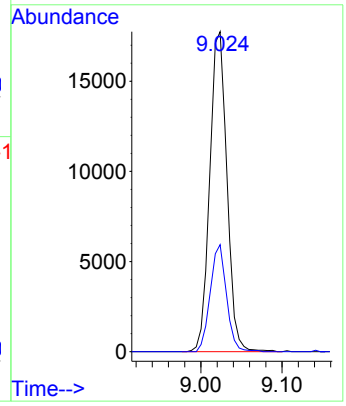
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

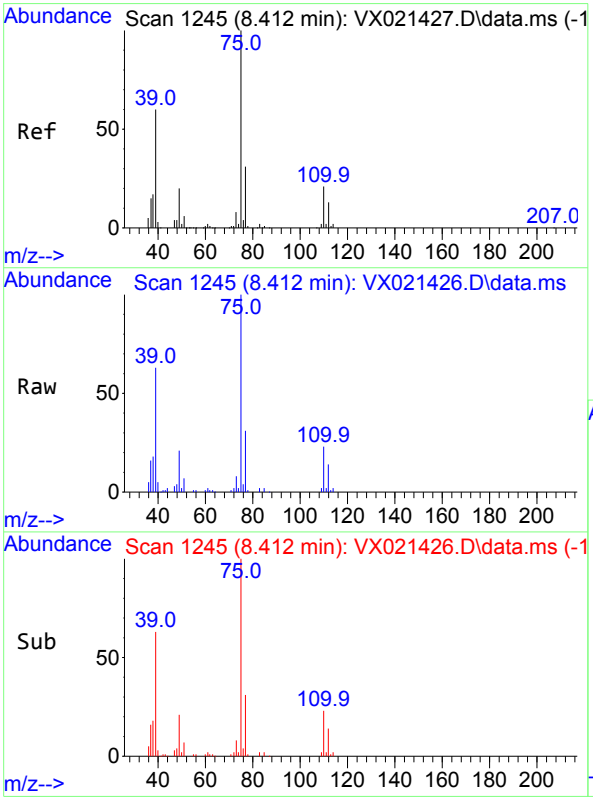


#53
t-1,3-Dichloropropene
Concen: 17.30 ug/l
RT: 9.024 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 75 Resp: 26060

Ion	Ratio	Lower	Upper
75	100		
77	33.5	24.9	37.3

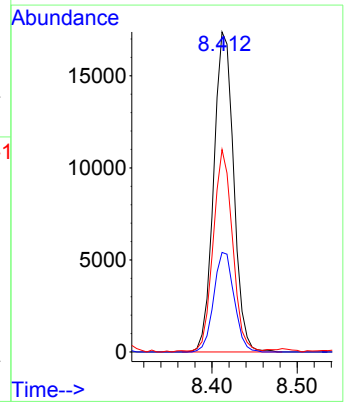




#54
cis-1,3-Dichloropropene
Concen: 17.66 ug/l
RT: 8.412 min Scan# 1245
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

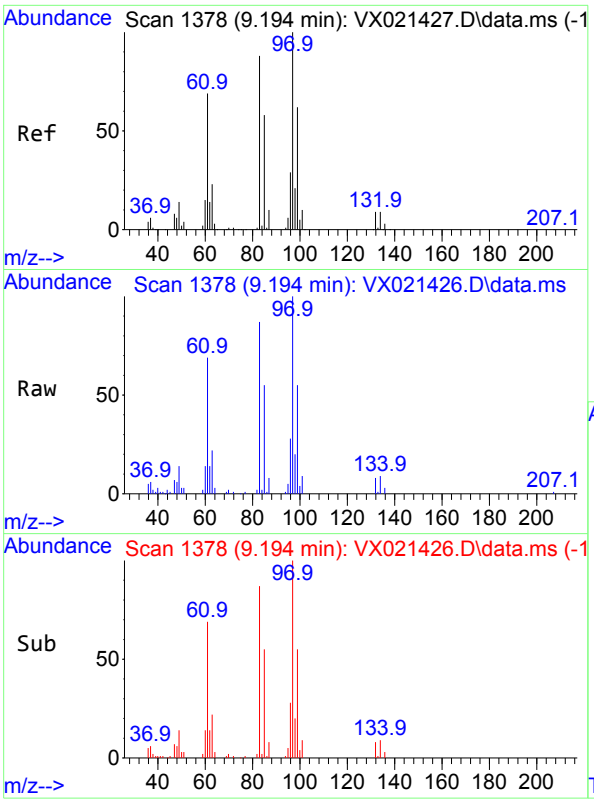
Tgt Ion: 75 Resp: 28326

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.7	38.5
39	62.8	35.1	52.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

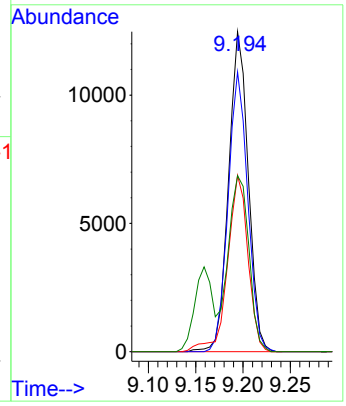
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

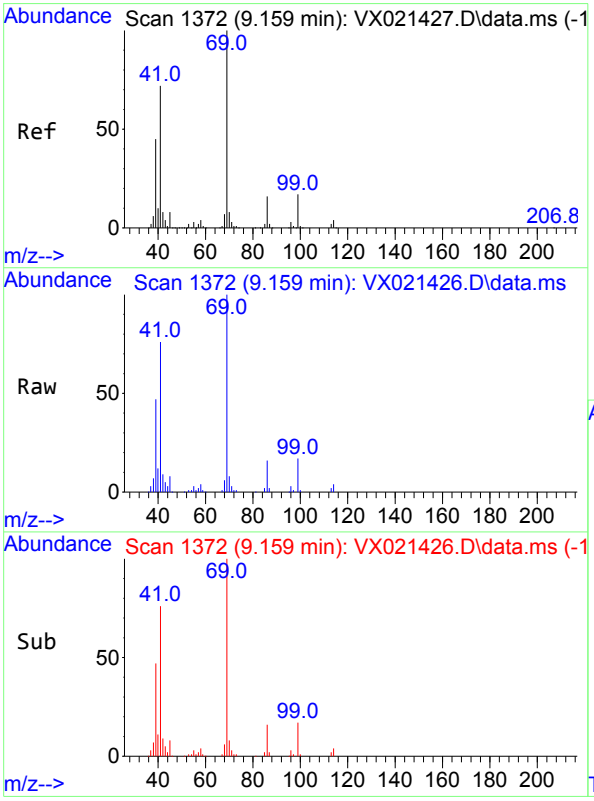


#55
1,1,2-Trichloroethane
Concen: 19.70 ug/l
RT: 9.194 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 97 Resp: 18048

Ion	Ratio	Lower	Upper
97	100		
83	87.4	69.3	103.9
85	55.1	44.3	66.5
99	55.0	50.3	75.5

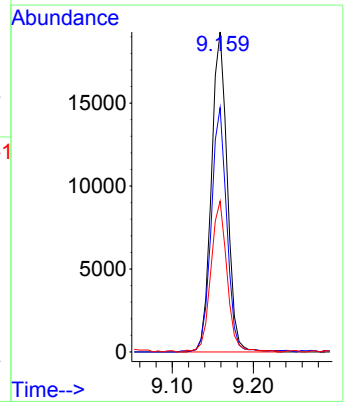




#56
Ethyl methacrylate
Concen: 17.76 ug/l
RT: 9.159 min Scan# 1372
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

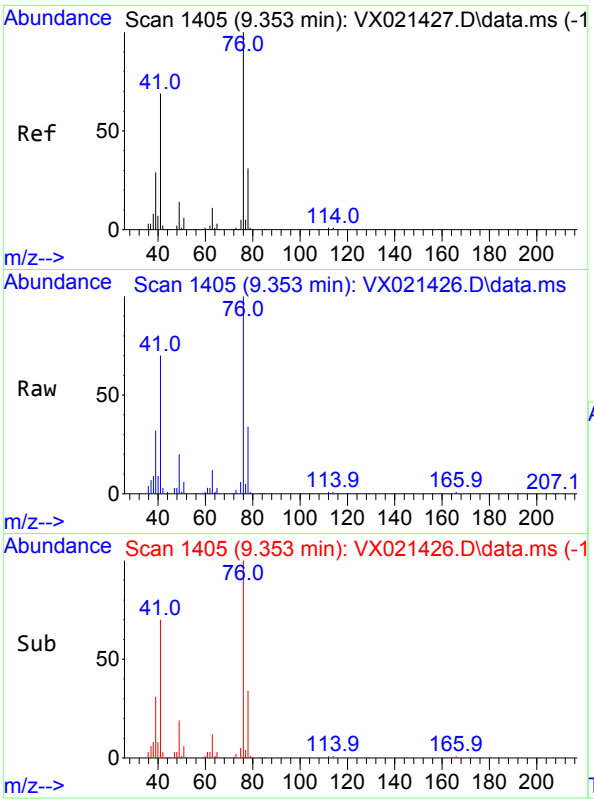
Tgt Ion: 69 Resp: 26047

Ion	Ratio	Lower	Upper
69	100		
41	75.5	46.8	70.2#
39	48.5	24.7	37.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

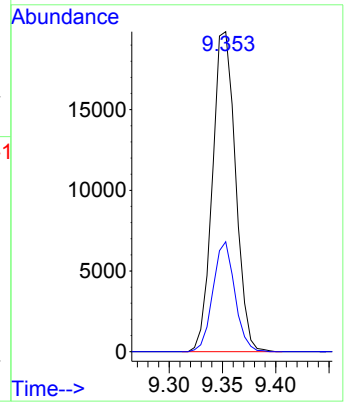
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

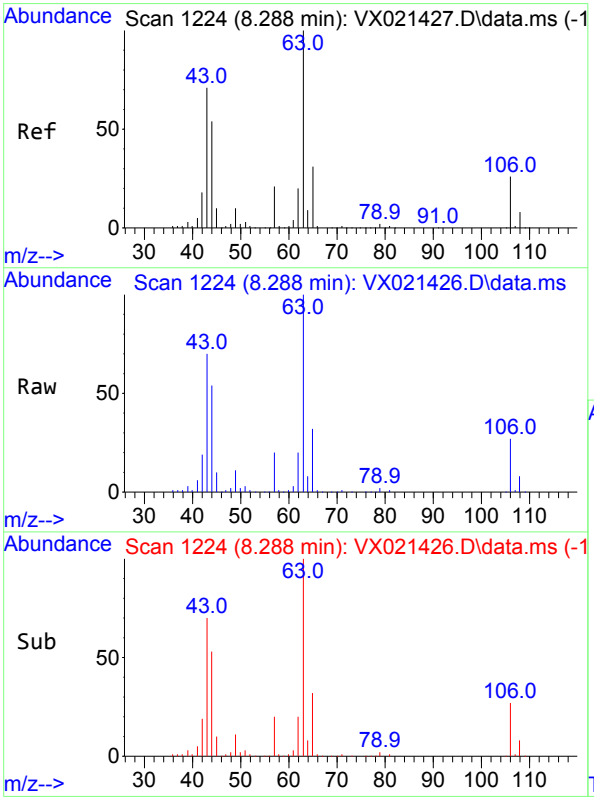


#57
1,3-Dichloropropane
Concen: 18.73 ug/l
RT: 9.353 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 76 Resp: 29873

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.2	39.2

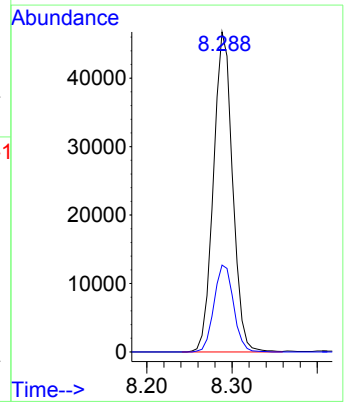




#58
2-Chloroethyl Vinyl ether
Concen: 90.16 ug/l
RT: 8.288 min Scan# 1224
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

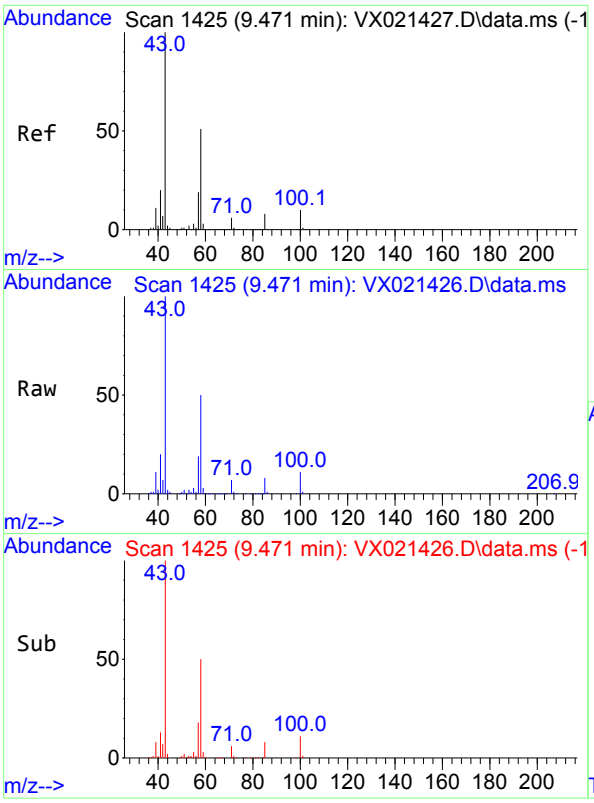
Tgt Ion: 63 Resp: 72843

Ion	Ratio	Lower	Upper
63	100		
106	27.7	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

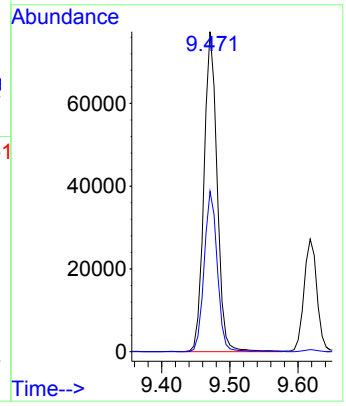
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

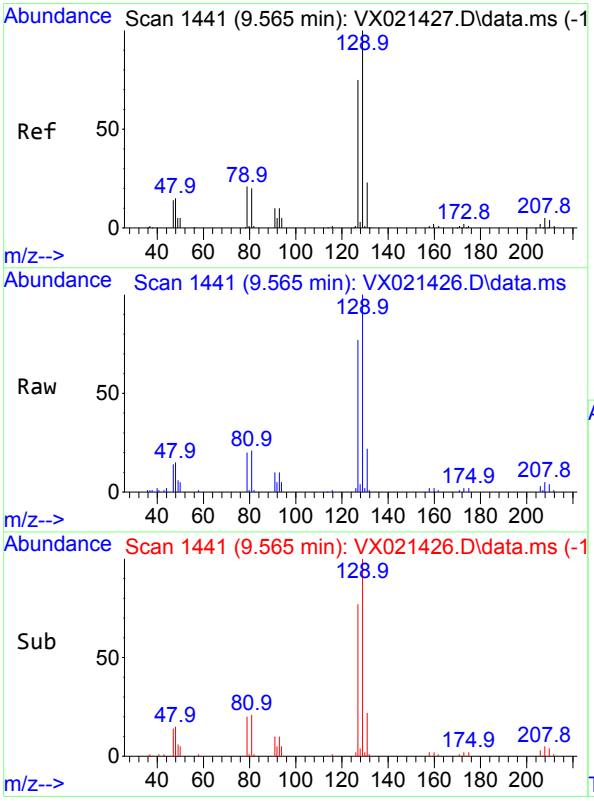


#59
2-Hexanone
Concen: 95.25 ug/l
RT: 9.471 min Scan# 1425
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 43 Resp: 103590

Ion	Ratio	Lower	Upper
43	100		
58	50.1	30.9	92.8

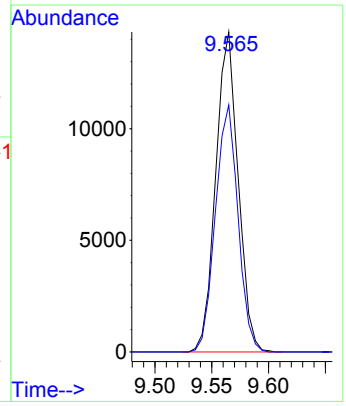




#60
Dibromochloromethane
Concen: 18.88 ug/l
RT: 9.565 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

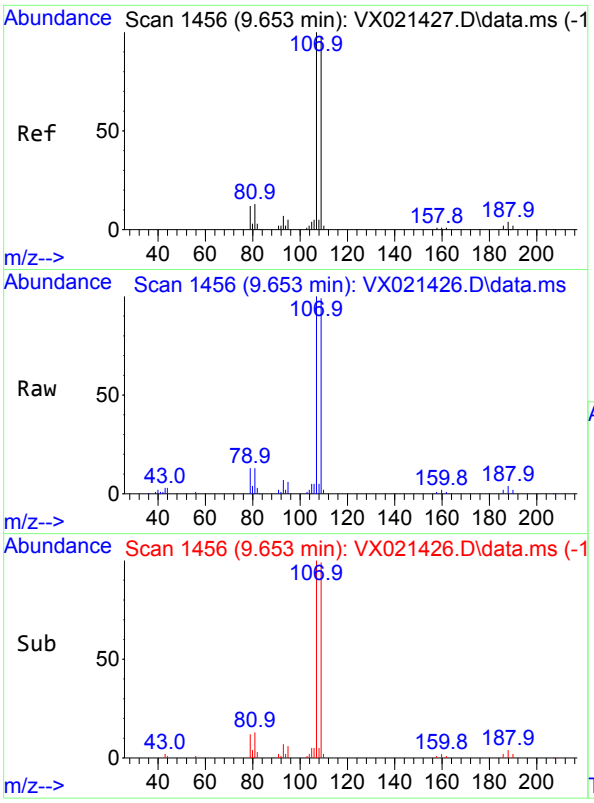
Tgt Ion:129 Resp: 19663

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

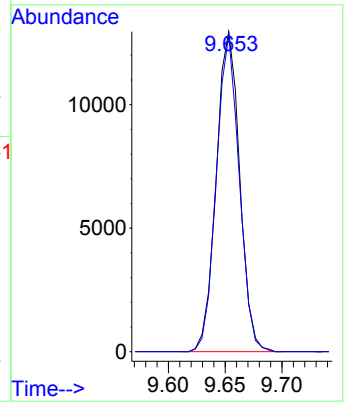
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

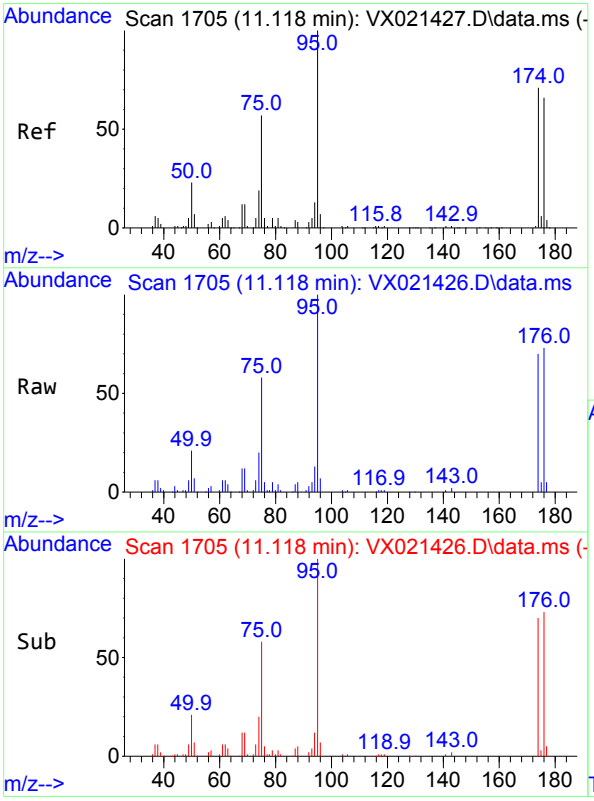


#61
1,2-Dibromoethane
Concen: 18.42 ug/l
RT: 9.653 min Scan# 1456
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:107 Resp: 18559

Ion	Ratio	Lower	Upper
107	100		
109	96.5	75.8	113.6

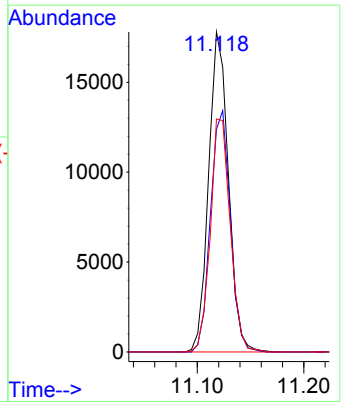




#62
4-Bromofluorobenzene
Concen: 18.39 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

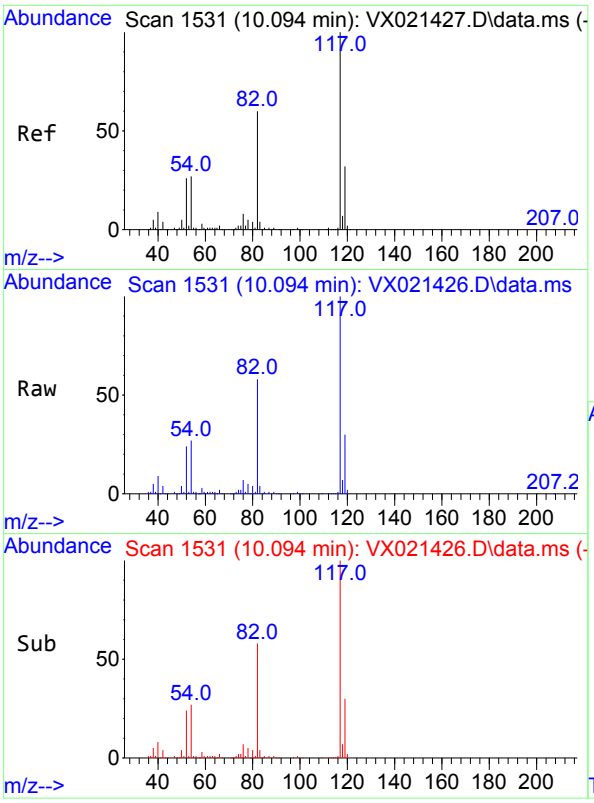
Tgt Ion: 95 Resp: 22955

Ion	Ratio	Lower	Upper
95	100		
174	75.7	0.0	154.6
176	73.3	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

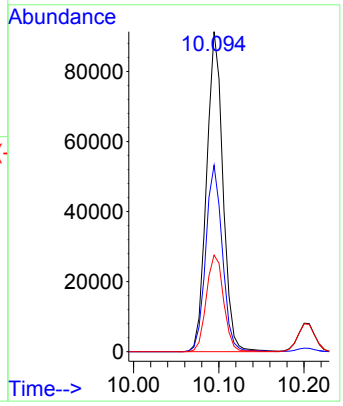
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

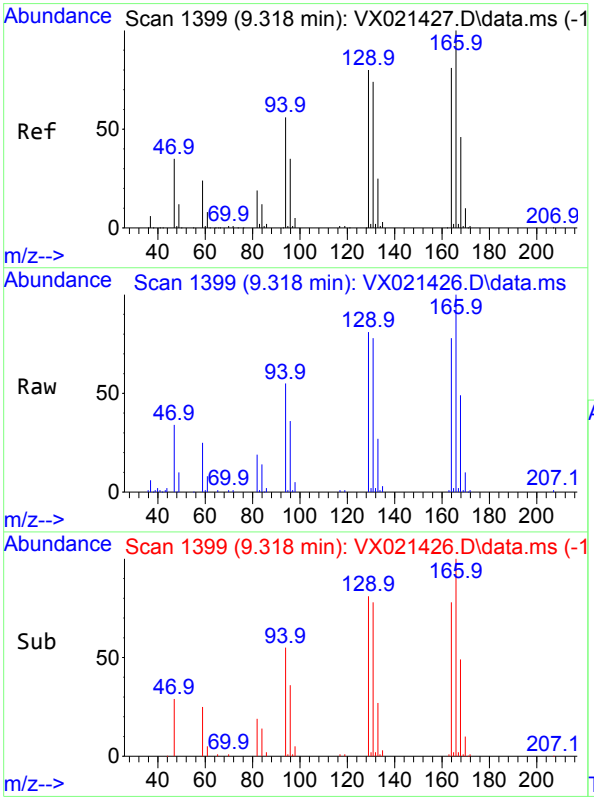


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:117 Resp: 122005

Ion	Ratio	Lower	Upper
117	100		
82	58.3	47.4	71.2
119	30.2	26.6	39.8

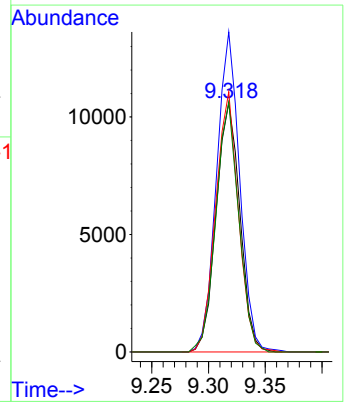




#64
Tetrachloroethene
Concen: 17.11 ug/l
RT: 9.318 min Scan# 1399
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

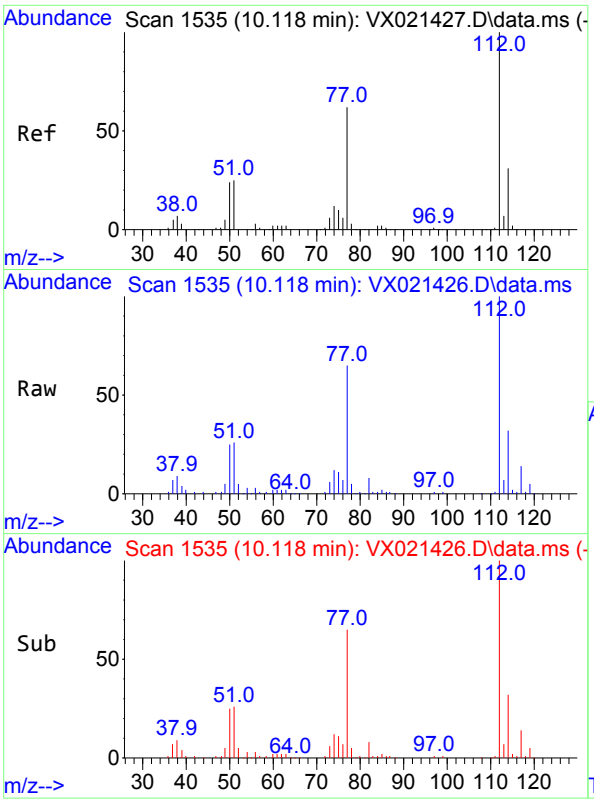
Tgt Ion:164 Resp: 15441

Ion	Ratio	Lower	Upper
164	100		
166	128.5	103.4	155.2
129	104.4	70.8	106.2
131	100.2	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

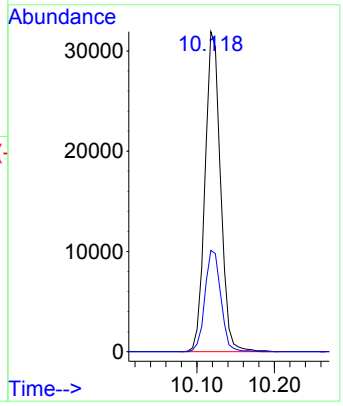
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

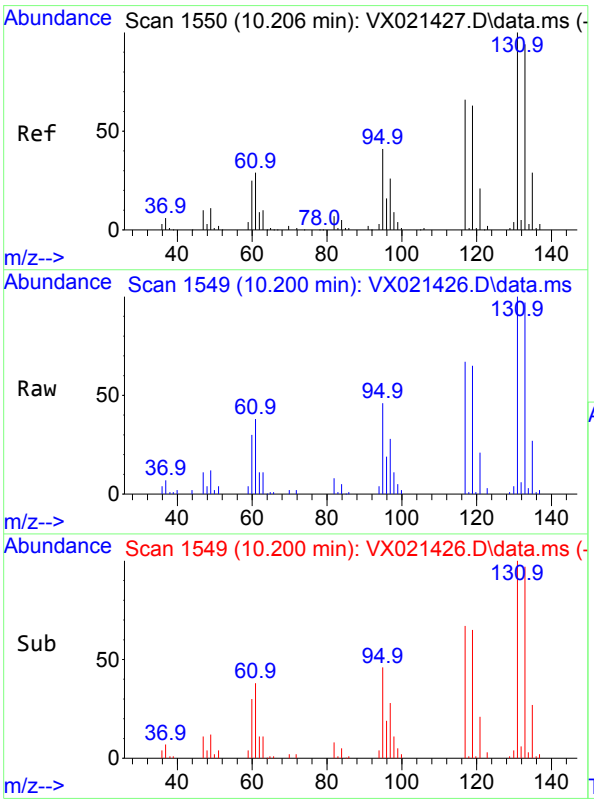


#65
Chlorobenzene
Concen: 17.70 ug/l
RT: 10.118 min Scan# 1535
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:112 Resp: 44424

Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.8	38.6

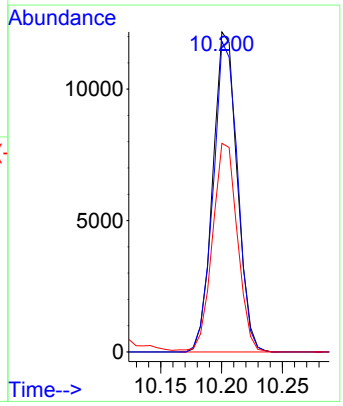




#66
1,1,1,2-Tetrachloroethane
Concen: 18.10 ug/l
RT: 10.200 min Scan# 1549
Delta R.T. -0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

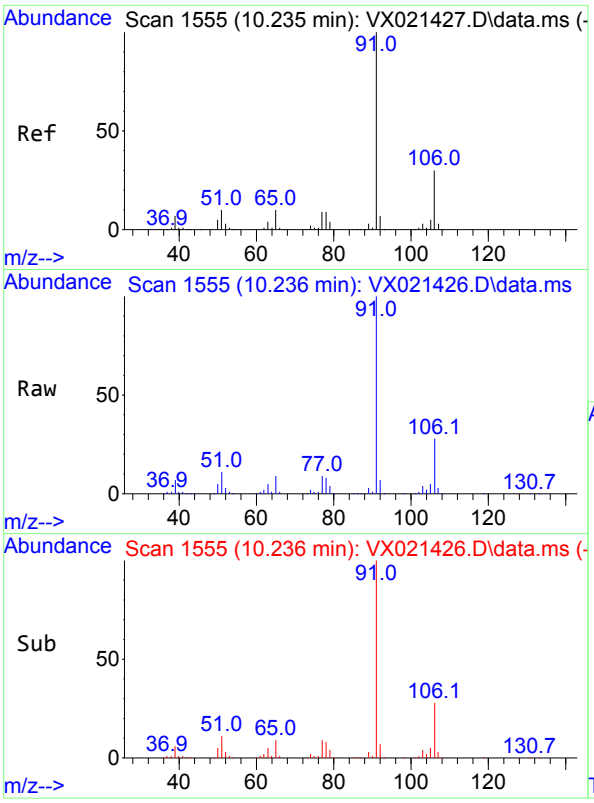
Tgt Ion:131 Resp: 16925

Ion	Ratio	Lower	Upper
131	100		
133	97.3	47.7	143.1
119	66.8	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

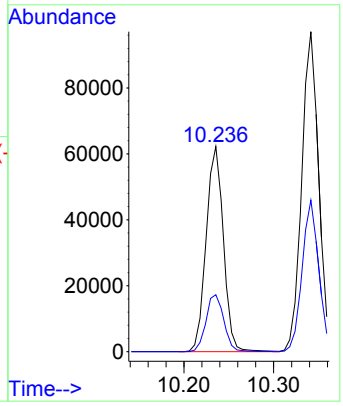
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

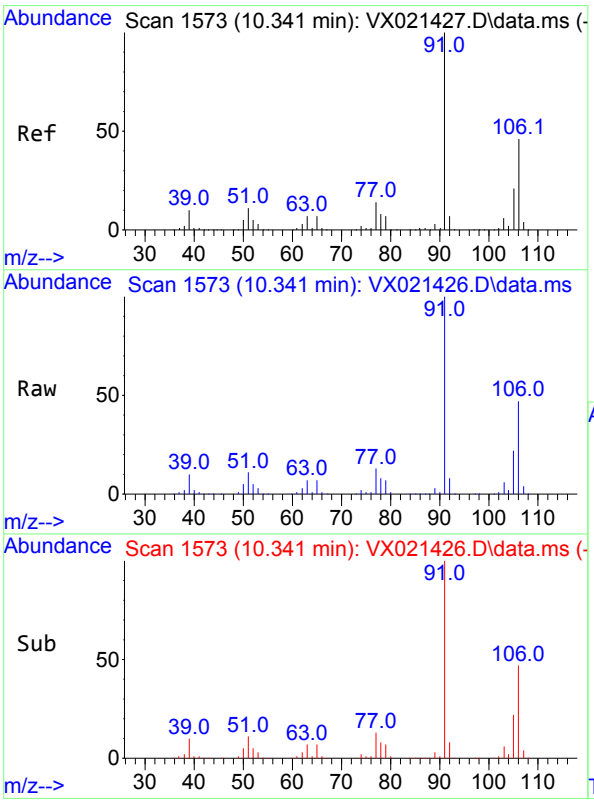


#67
Ethyl Benzene
Concen: 17.98 ug/l
RT: 10.236 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 91 Resp: 83114

Ion	Ratio	Lower	Upper
91	100		
106	27.8	24.6	37.0

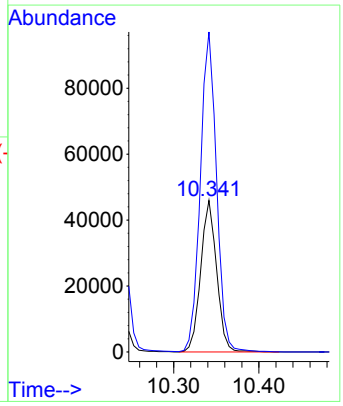




#68
m/p-Xylenes
Concen: 36.20 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

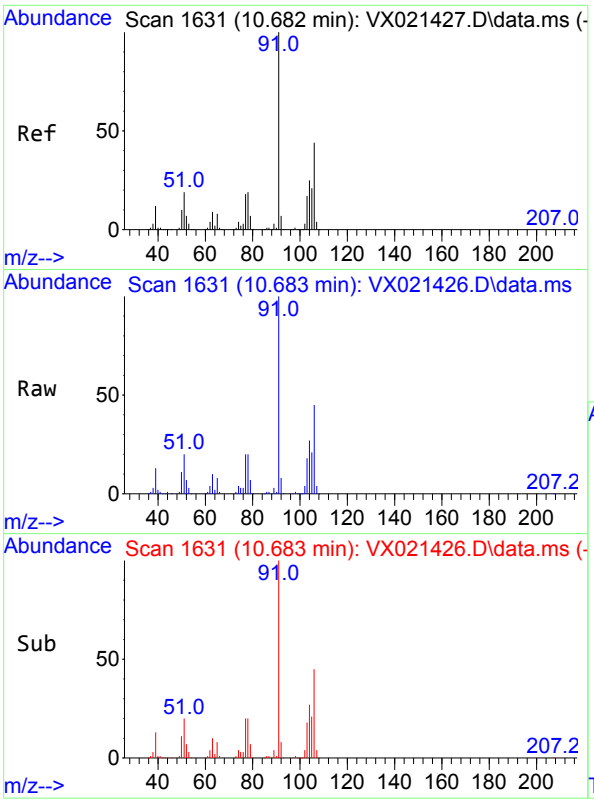
Tgt Ion:106 Resp: 59799

Ion	Ratio	Lower	Upper
106	100		
91	214.6	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

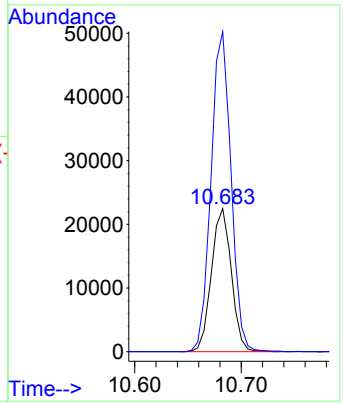
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

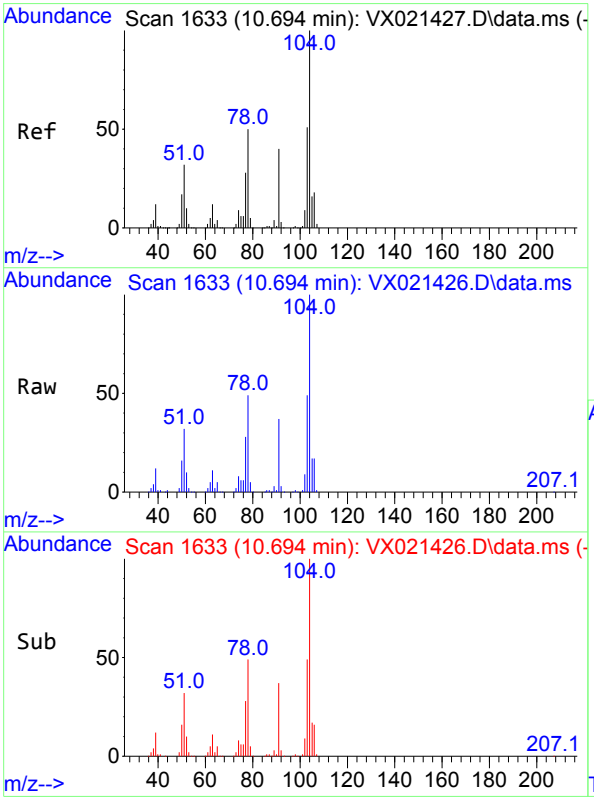


#69
o-Xylene
Concen: 18.14 ug/l
RT: 10.683 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:106 Resp: 29103

Ion	Ratio	Lower	Upper
106	100		
91	224.7	108.1	324.2

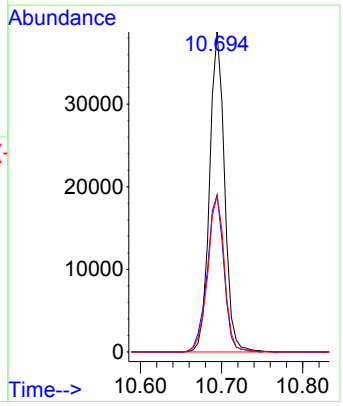




#70
Styrene
Concen: 18.29 ug/l
RT: 10.694 min Scan# 1633
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

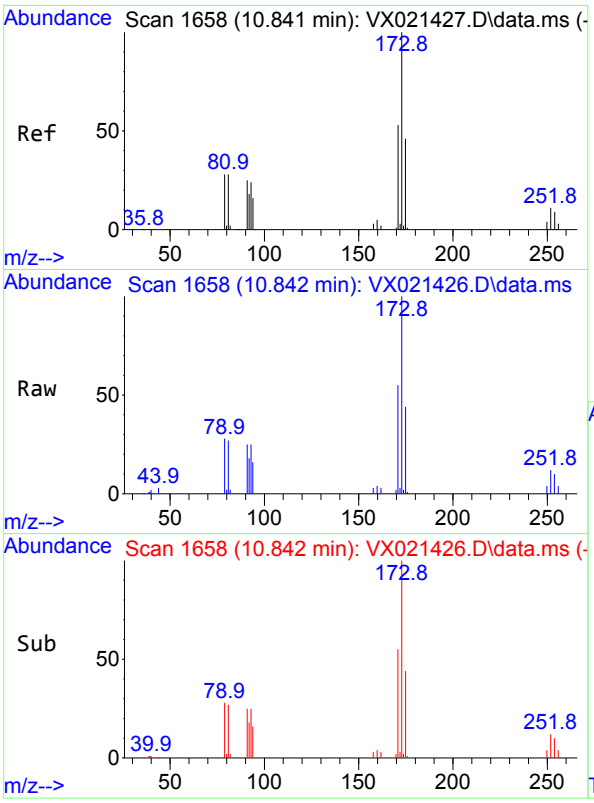
Tgt Ion:104 Resp: 49432

Ion	Ratio	Lower	Upper
104	100		
78	55.1	40.0	60.0
103	54.5	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

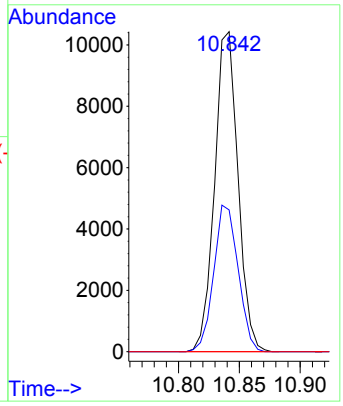
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

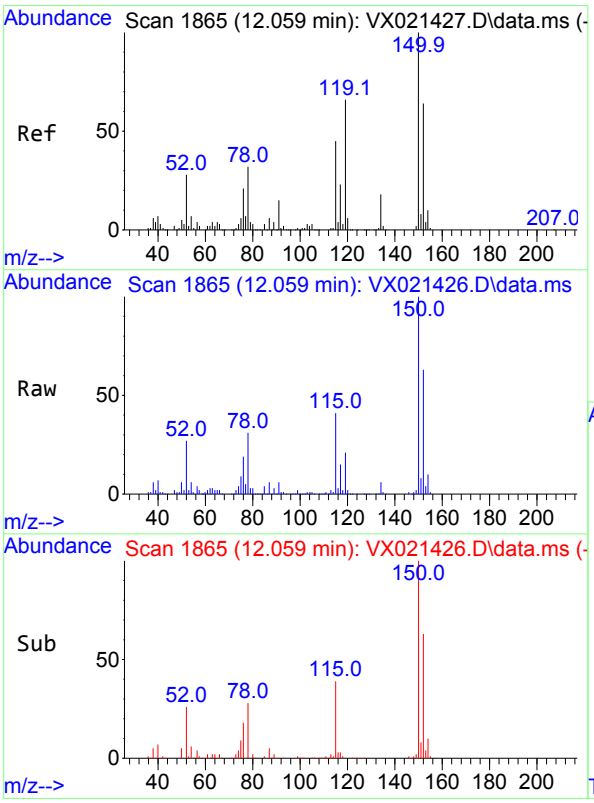


#71
Bromoform
Concen: 18.51 ug/l
RT: 10.842 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:173 Resp: 13951

Ion	Ratio	Lower	Upper
173	100		
175	47.7	23.9	71.8
254	0.0	0.1	0.1#

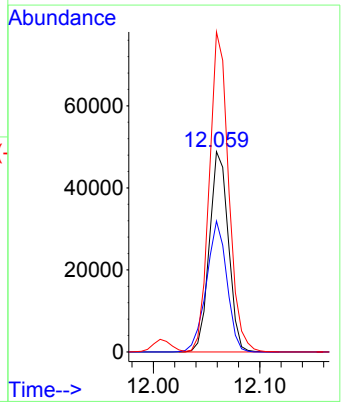




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

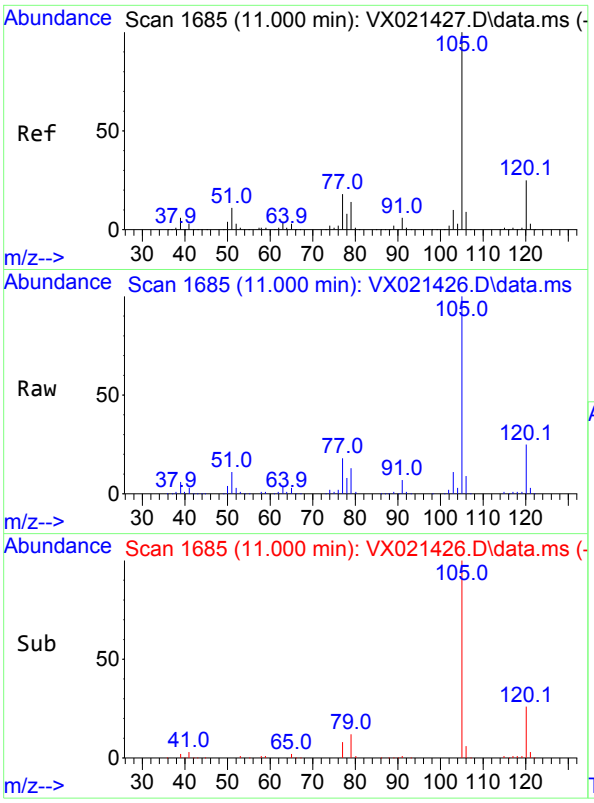
Tgt Ion:152 Resp: 60191

Ion	Ratio	Lower	Upper
152	100		
115	70.5	41.1	123.3
150	163.1	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

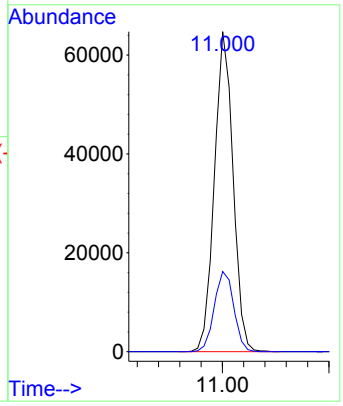
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

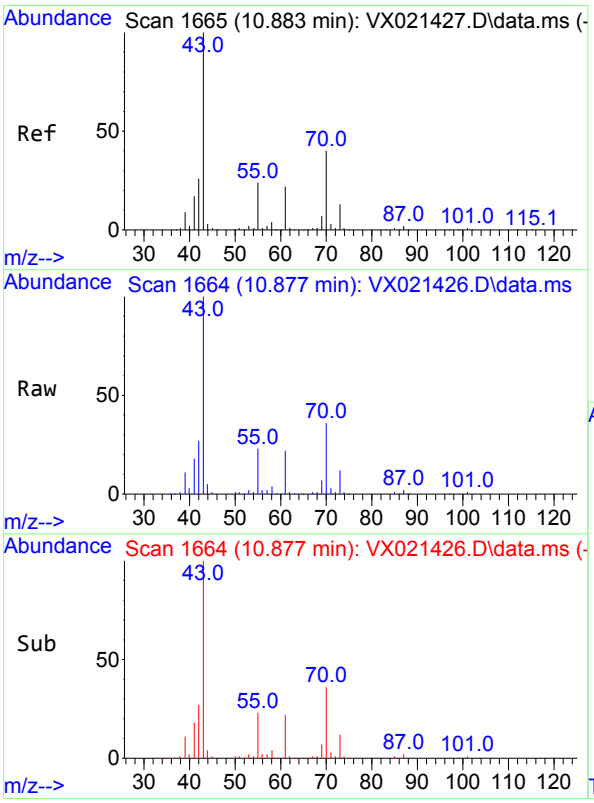


#73
Isopropylbenzene
Concen: 17.63 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:105 Resp: 78456

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.6

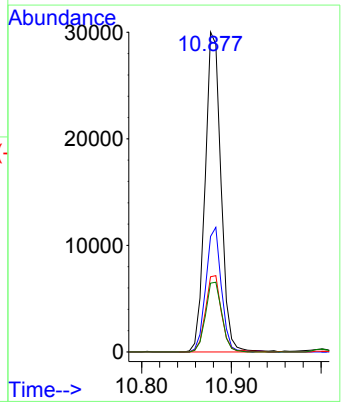




#74
N-amyl acetate
Concen: 16.54 ug/l
RT: 10.877 min Scan# 1664
Delta R.T. -0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

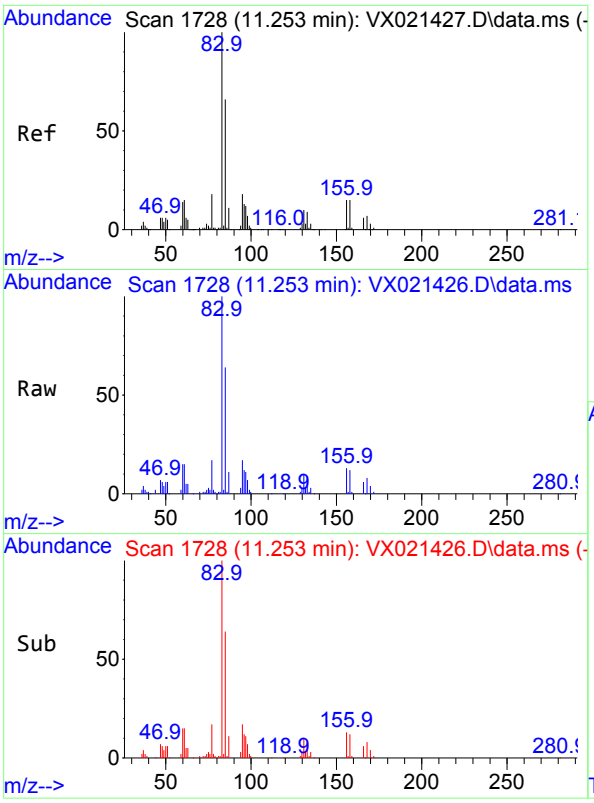
Tgt Ion: 43 Resp: 36826

Ion	Ratio	Lower	Upper
43	100		
70	38.0	39.0	58.6#
55	24.2	21.5	32.3
61	22.3	22.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

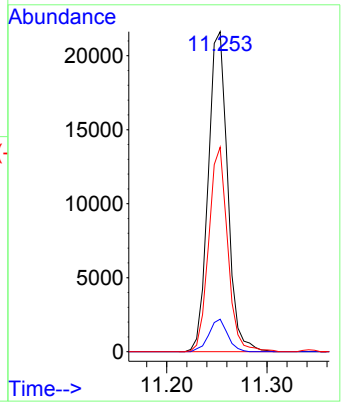
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

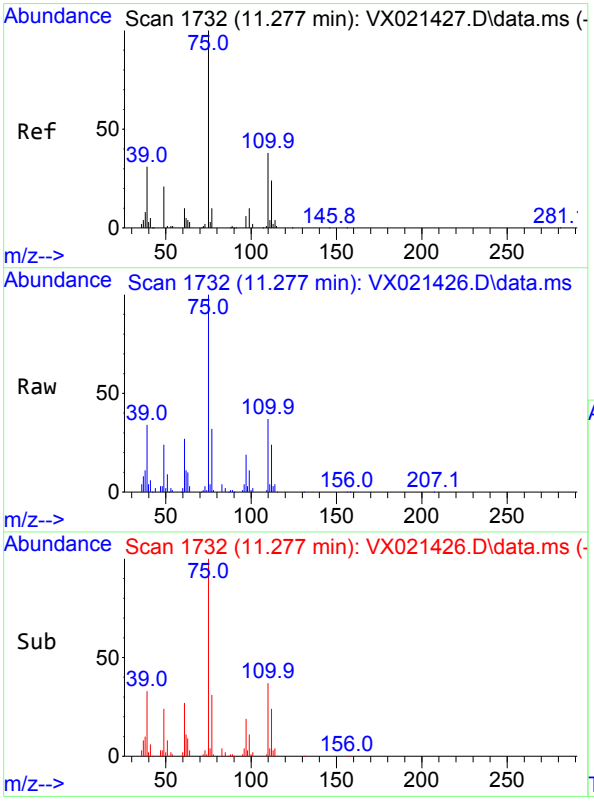


#75
1,1,2,2-Tetrachloroethane
Concen: 19.64 ug/l
RT: 11.253 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 83 Resp: 29031

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.2
85	62.1	31.8	95.4

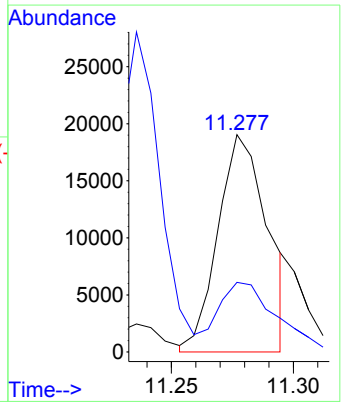




#76
1,2,3-Trichloropropane
Concen: 18.88 ug/l m
RT: 11.277 min Scan# 1732
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

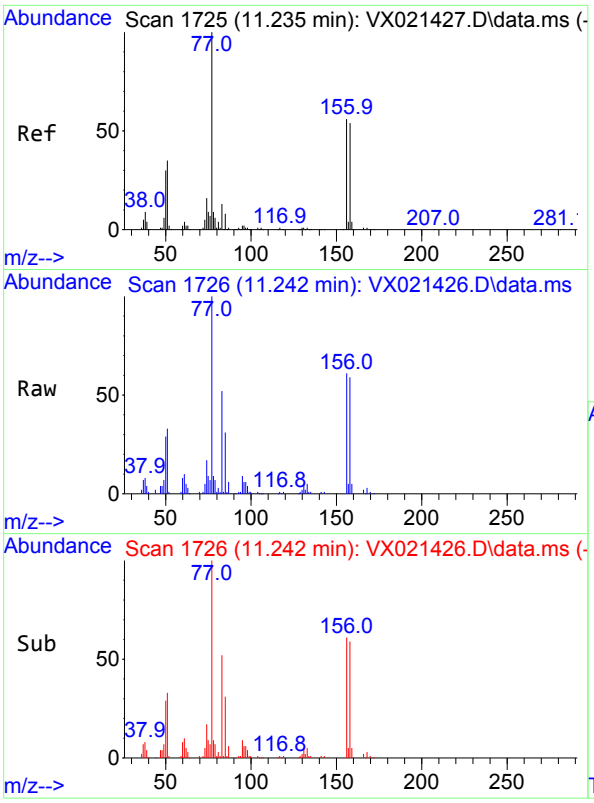
Tgt Ion: 75 Resp: 26887

Ion	Ratio	Lower	Upper
75	100		
77	38.4	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

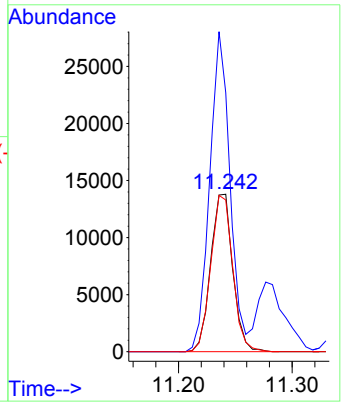
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

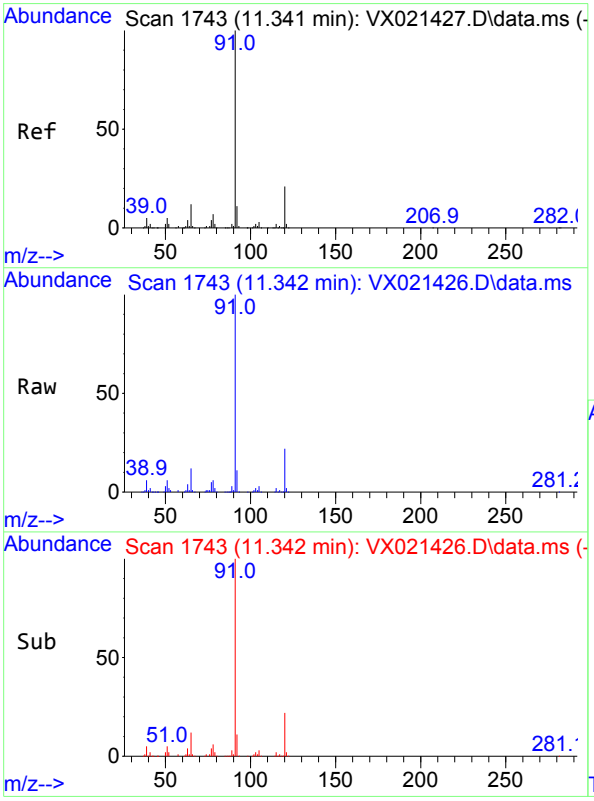


#77
Bromobenzene
Concen: 17.63 ug/l
RT: 11.242 min Scan# 1726
Delta R.T. 0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:156 Resp: 18682

Ion	Ratio	Lower	Upper
156	100		
77	185.3	82.8	248.6
158	98.2	49.1	147.4

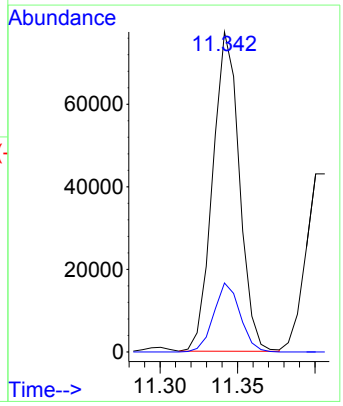




#78
n-propylbenzene
Concen: 17.80 ug/l
RT: 11.342 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

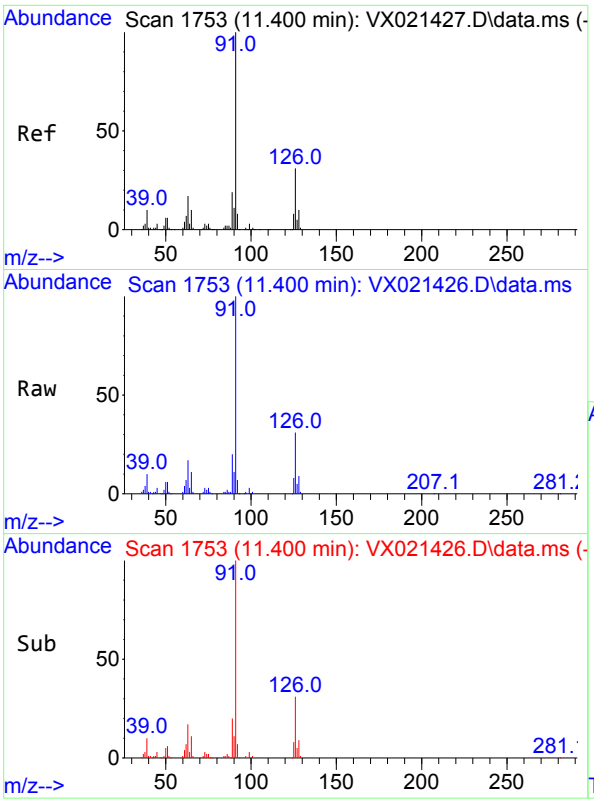
Tgt Ion: 91 Resp: 92531

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

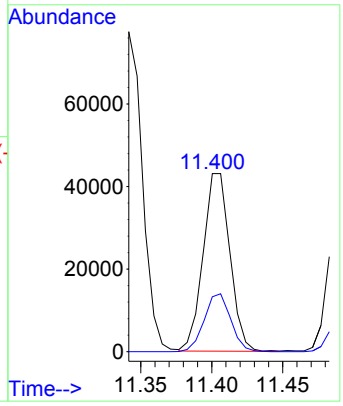
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

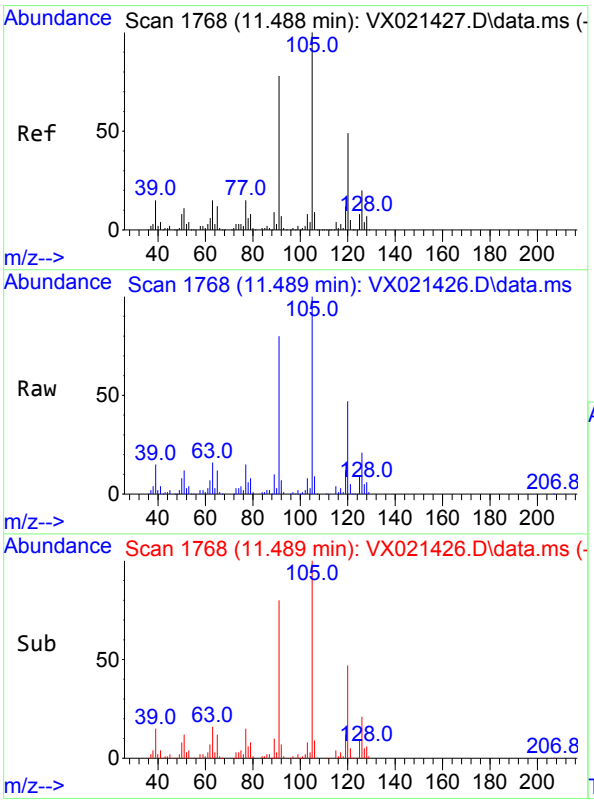


#79
2-Chlorotoluene
Concen: 17.89 ug/l
RT: 11.400 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 91 Resp: 56544

Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.6	49.8

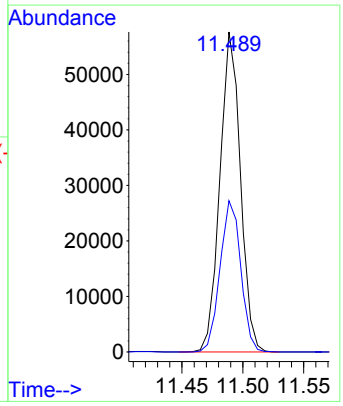




#80
1,3,5-Trimethylbenzene
Concen: 17.96 ug/l
RT: 11.489 min Scan# 1768
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

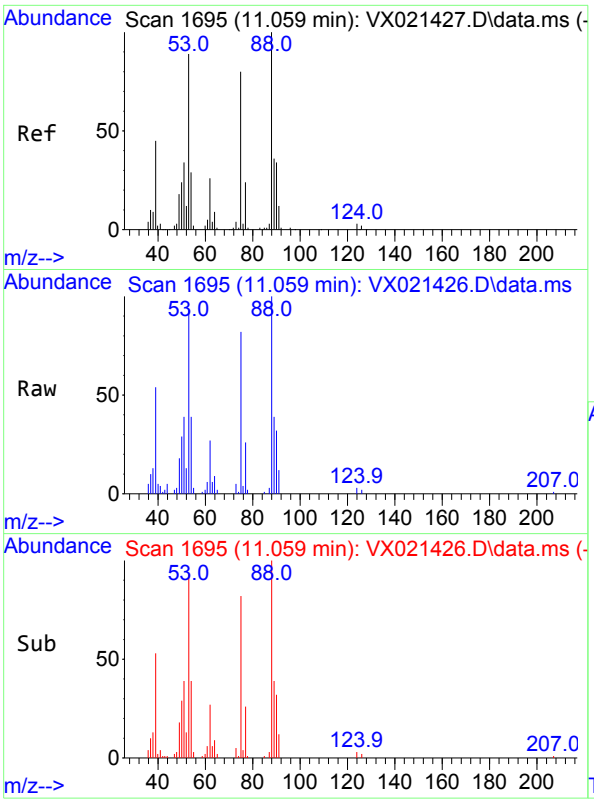
Tgt Ion:105 Resp: 67544

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

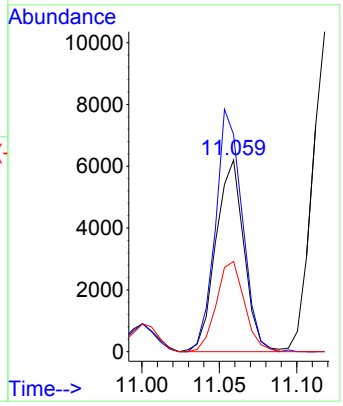
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

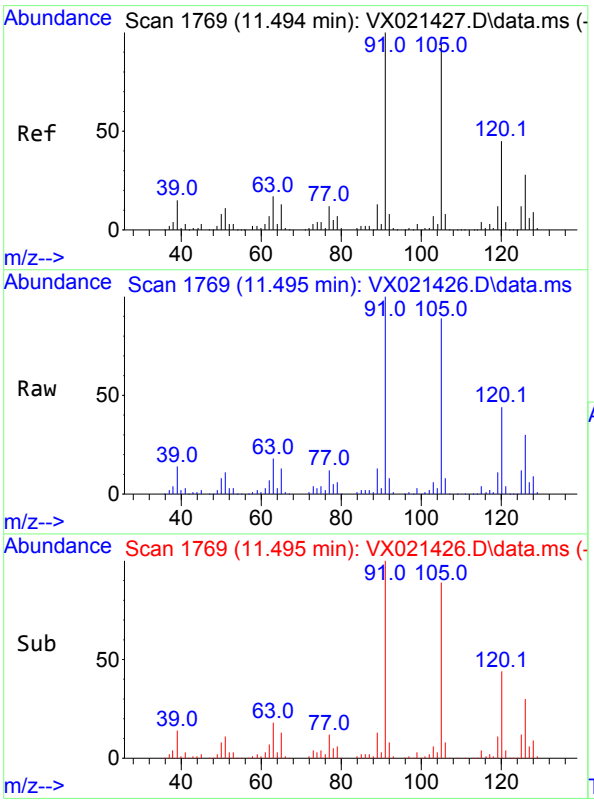


#81
trans-1,4-Dichloro-2-butene
Concen: 15.51 ug/l
RT: 11.059 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 75 Resp: 7828

Ion	Ratio	Lower	Upper
75	100		
53	120.8	74.5	111.7#
89	47.0	37.9	56.9

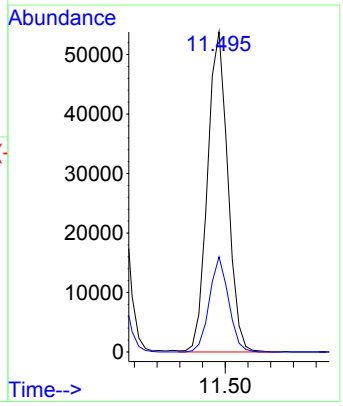




#82
4-Chlorotoluene
Concen: 17.90 ug/l
RT: 11.495 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

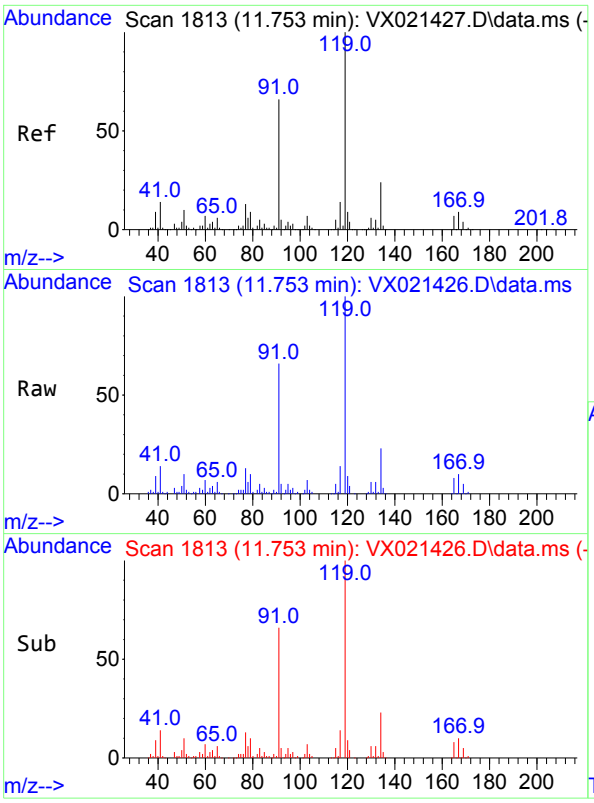
Tgt Ion: 91 Resp: 66662

Ion	Ratio	Lower	Upper
91	100		
126	28.0	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

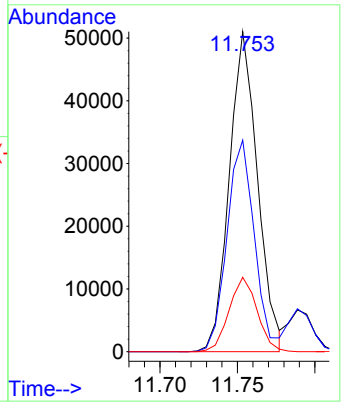
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

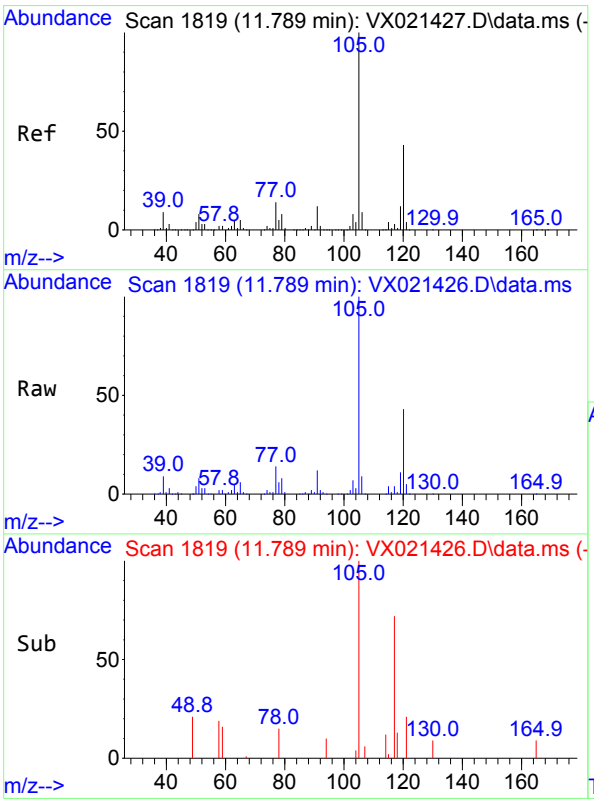


#83
tert-Butylbenzene
Concen: 18.01 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:119 Resp: 64683

Ion	Ratio	Lower	Upper
119	100		
91	64.4	27.9	83.7
134	23.1	11.3	33.9

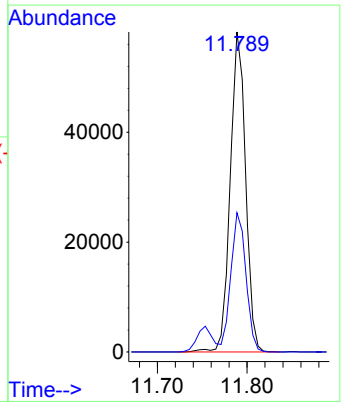




#84
1,2,4-Trimethylbenzene
Concen: 18.09 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

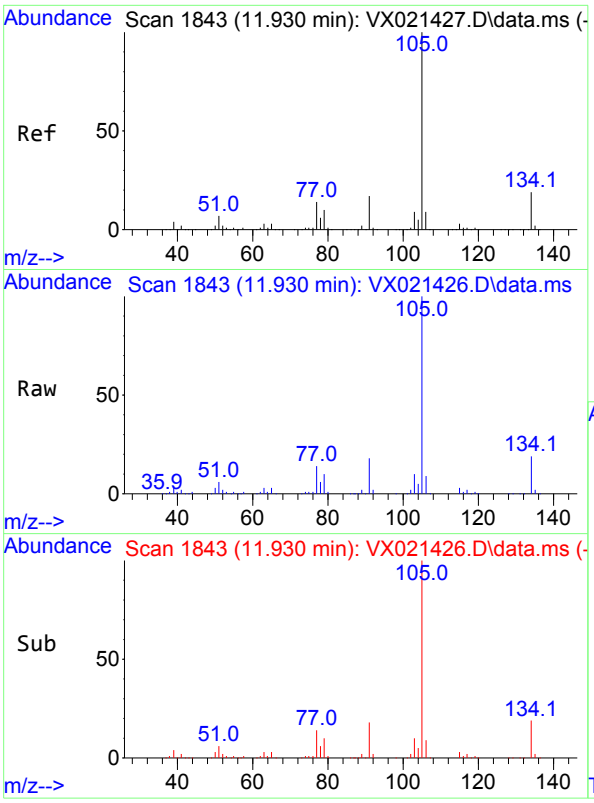
Tgt Ion:105 Resp: 69157

Ion	Ratio	Lower	Upper
105	100		
120	42.6	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

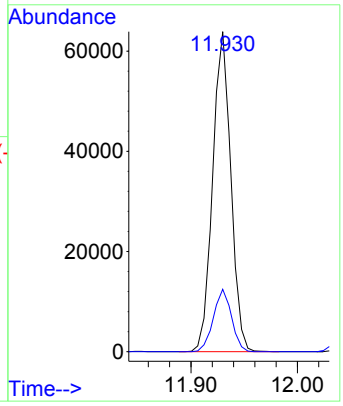
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

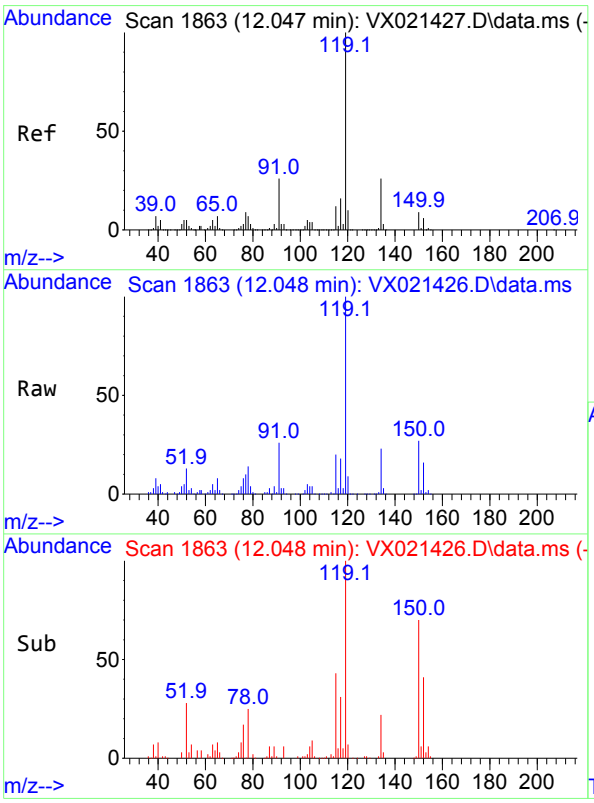


#85
sec-Butylbenzene
Concen: 17.86 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:105 Resp: 75635

Ion	Ratio	Lower	Upper
105	100		
134	19.4	10.0	29.8

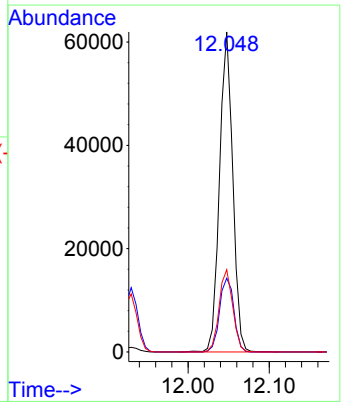




#86
p-Isopropyltoluene
Concen: 18.13 ug/l
RT: 12.048 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

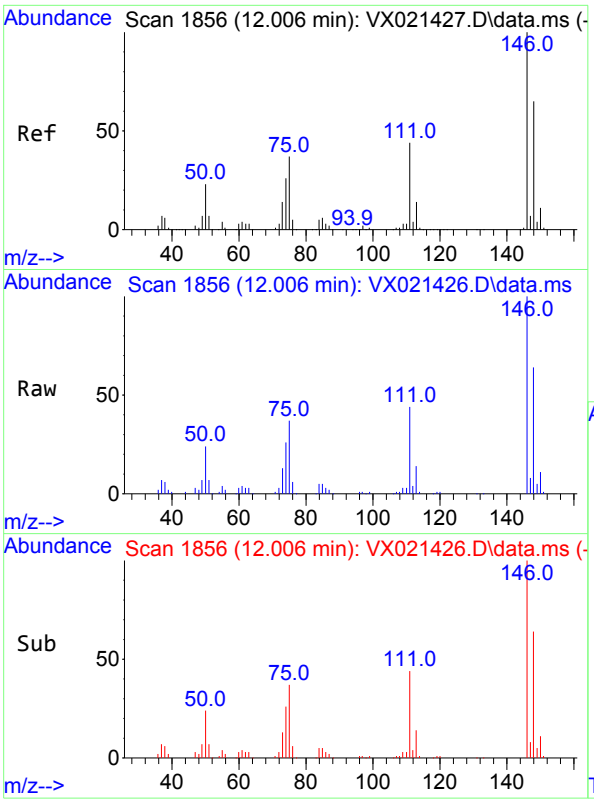
Tgt Ion:119 Resp: 70268

Ion	Ratio	Lower	Upper
119	100		
134	24.9	12.9	38.7
91	26.5	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

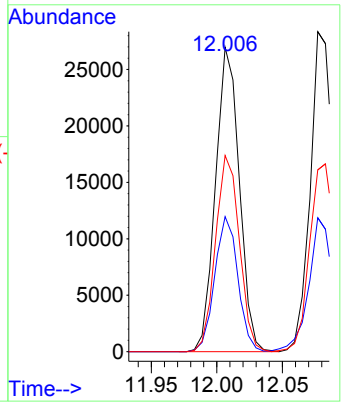
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

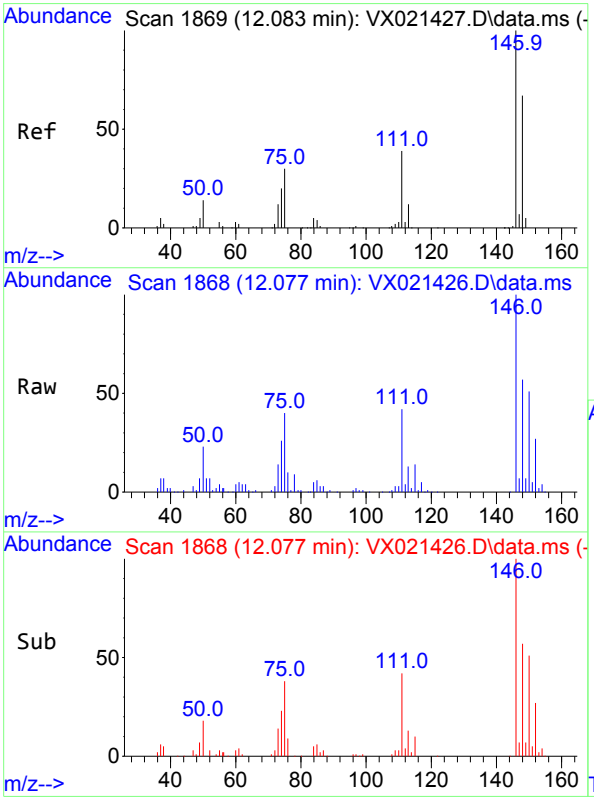


#87
1,3-Dichlorobenzene
Concen: 17.62 ug/l
RT: 12.006 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:146 Resp: 33998

Ion	Ratio	Lower	Upper
146	100		
111	43.2	20.2	60.5
148	64.6	31.9	95.7

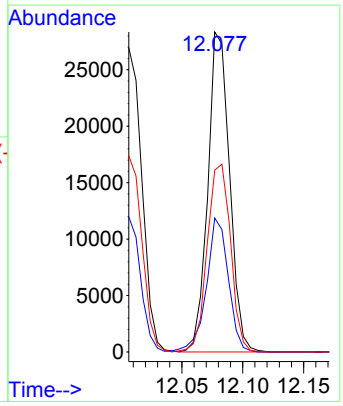




#88
1,4-Dichlorobenzene
Concen: 17.94 ug/l
RT: 12.077 min Scan# 1868
Delta R.T. -0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

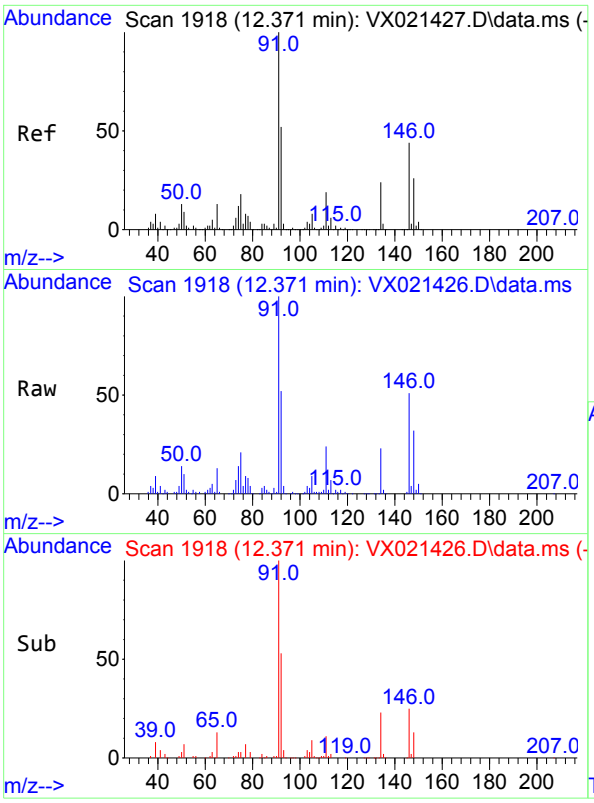
Tgt Ion:146 Resp: 35229

Ion	Ratio	Lower	Upper
146	100		
111	42.2	19.6	58.8
148	63.1	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

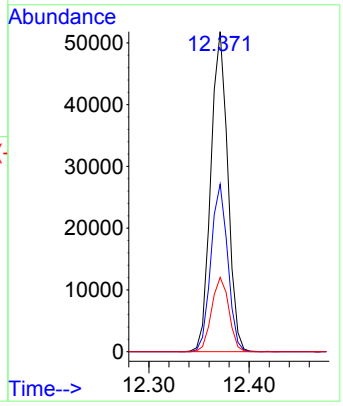
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

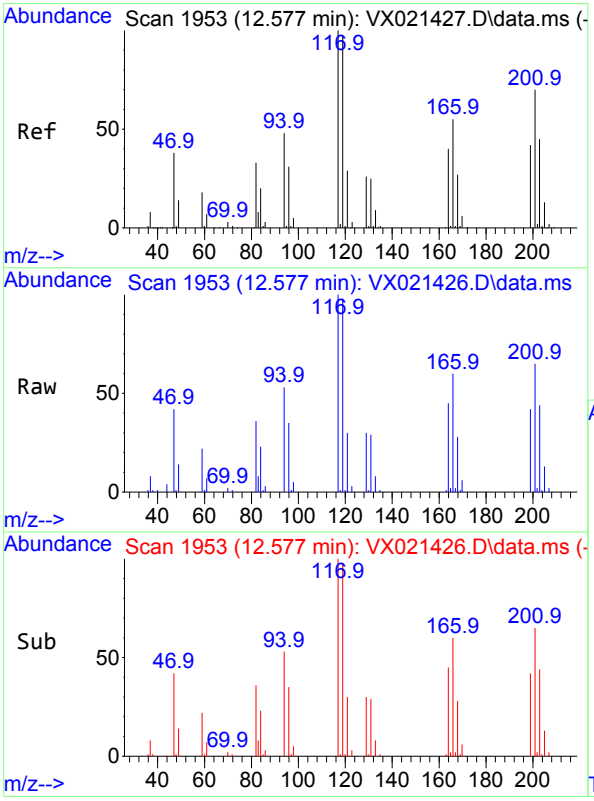


#89
n-Butylbenzene
Concen: 17.25 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion: 91 Resp: 60930

Ion	Ratio	Lower	Upper
91	100		
92	51.9	27.4	82.0
134	23.6	13.2	39.5

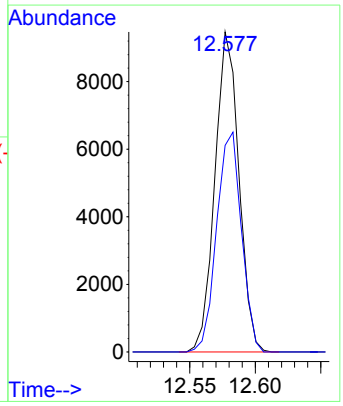




#90
Hexachloroethane
Concen: 20.00 ug/l
RT: 12.577 min Scan# 1953
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

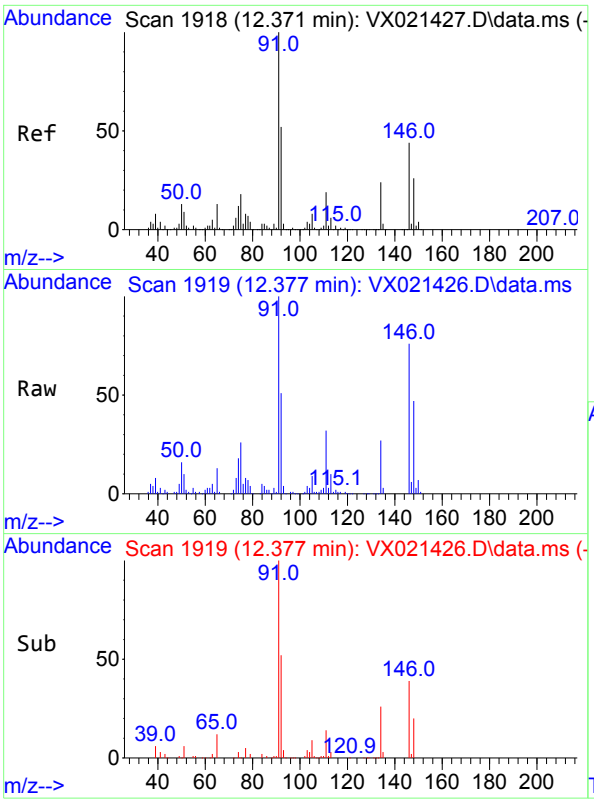
Tgt Ion:117 Resp: 12040

Ion	Ratio	Lower	Upper
117	100		
201	71.0	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

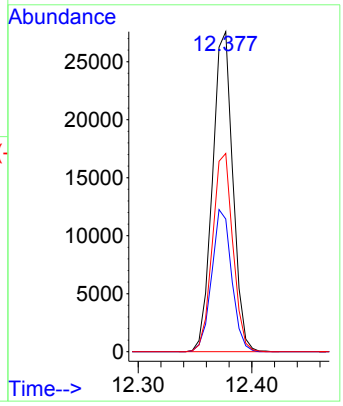
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

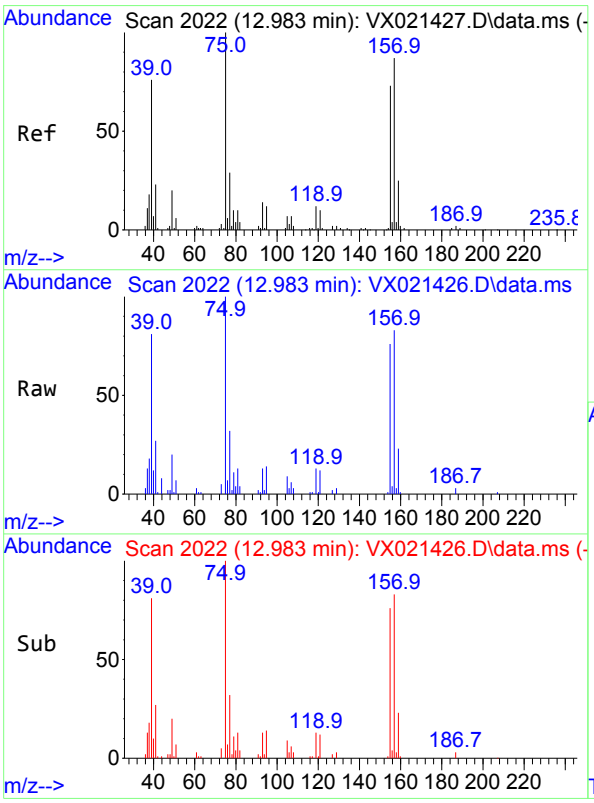


#91
1,2-Dichlorobenzene
Concen: 18.36 ug/l
RT: 12.377 min Scan# 1919
Delta R.T. 0.006 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:146 Resp: 34367

Ion	Ratio	Lower	Upper
146	100		
111	43.6	20.8	62.2
148	62.2	31.9	95.5

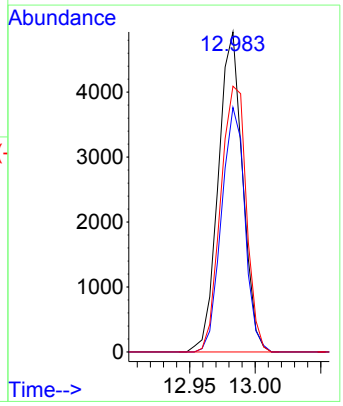




#92
1,2-Dibromo-3-Chloropropane
Concen: 16.82 ug/l
RT: 12.983 min Scan# 2022
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

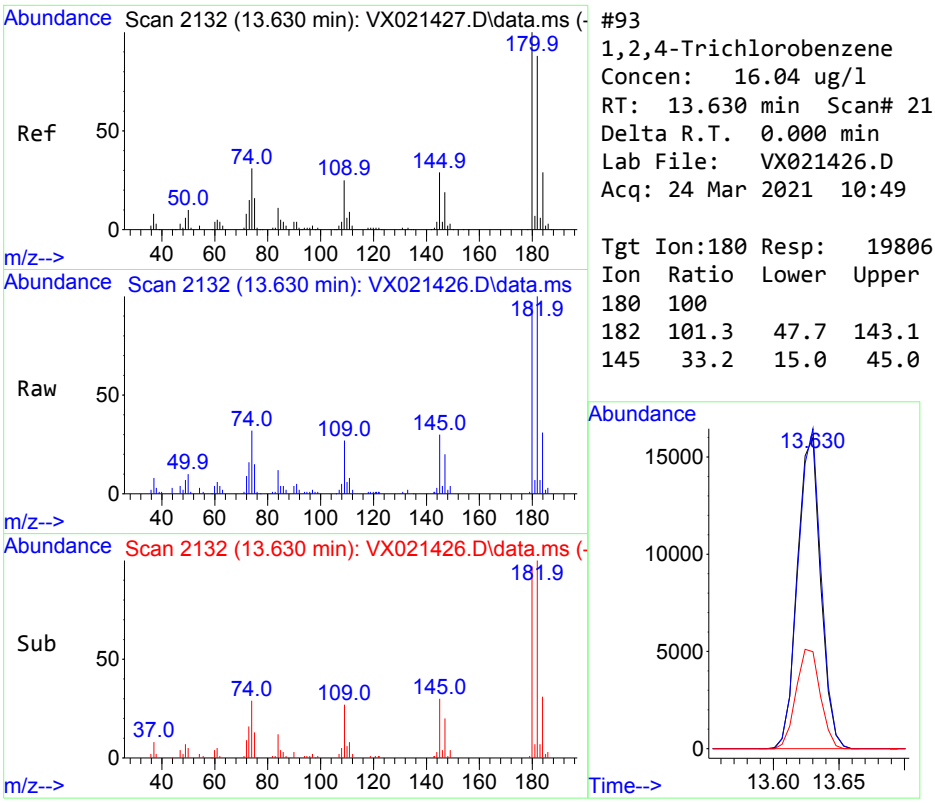
Tgt Ion: 75 Resp: 6340

Ion	Ratio	Lower	Upper
75	100		
155	73.8	45.3	135.9
157	87.9	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

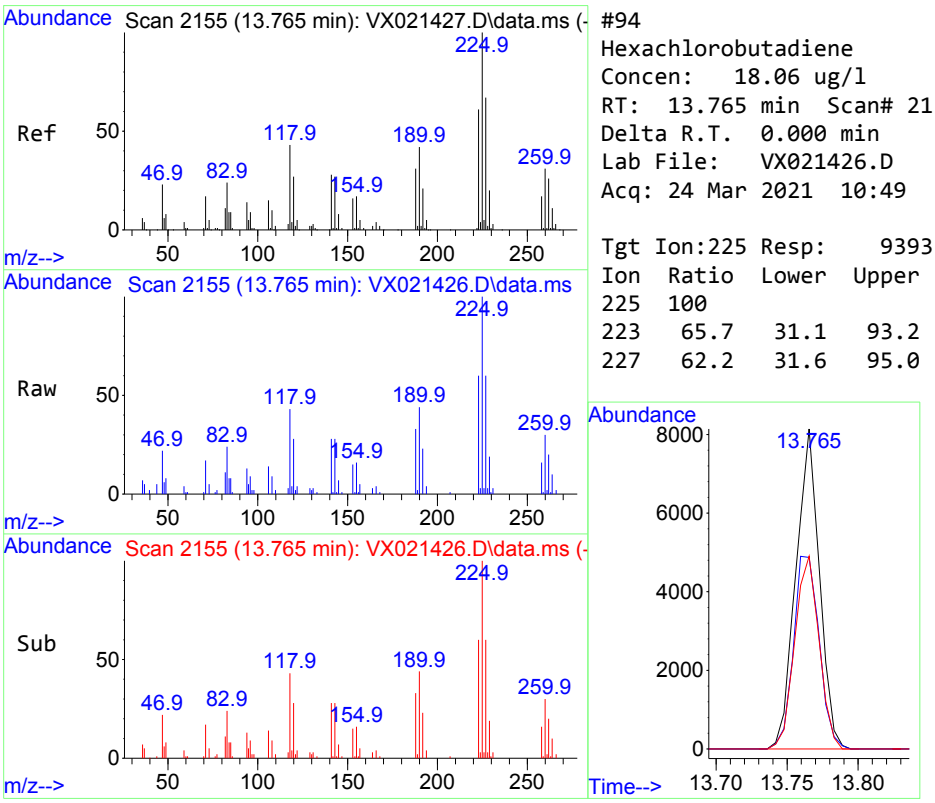
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM



#93
1,2,4-Trichlorobenzene
Concen: 16.04 ug/l
RT: 13.630 min Scan# 2132
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:180 Resp: 19806

Ion	Ratio	Lower	Upper
180	100		
182	101.3	47.7	143.1
145	33.2	15.0	45.0



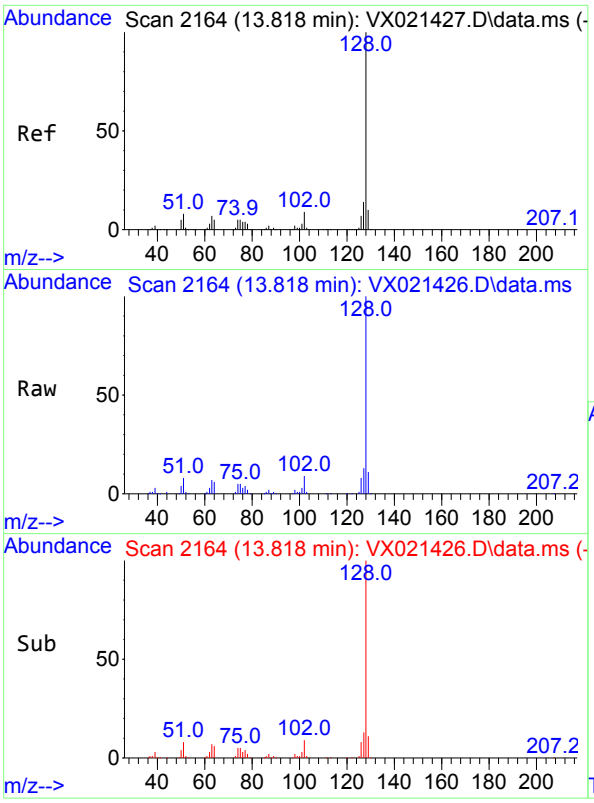
#94
Hexachlorobutadiene
Concen: 18.06 ug/l
RT: 13.765 min Scan# 2155
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:225 Resp: 9393

Ion	Ratio	Lower	Upper
225	100		
223	65.7	31.1	93.2
227	62.2	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

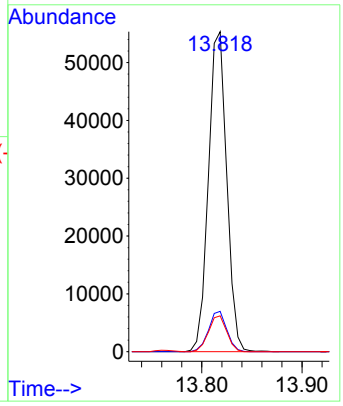
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:26 AM

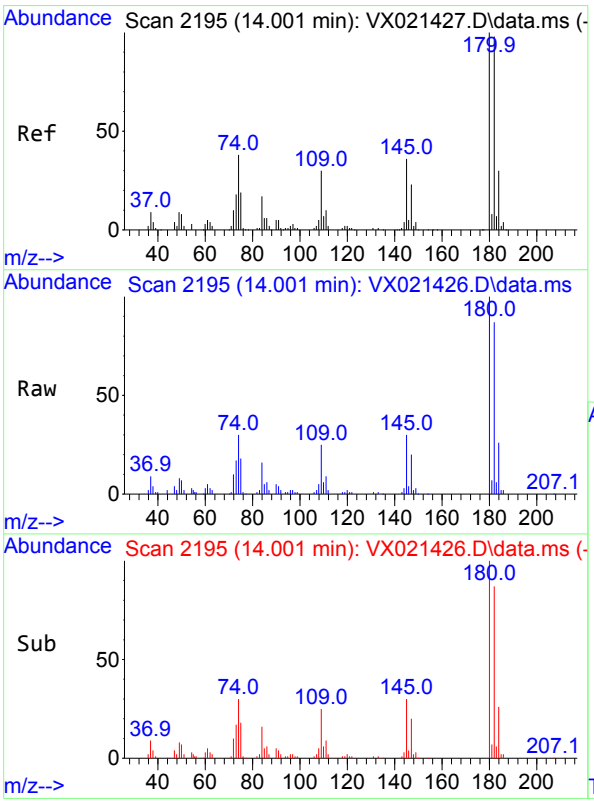


#95
Naphthalene
Concen: 16.64 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:128 Resp: 70218

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	11.3	8.8	13.2

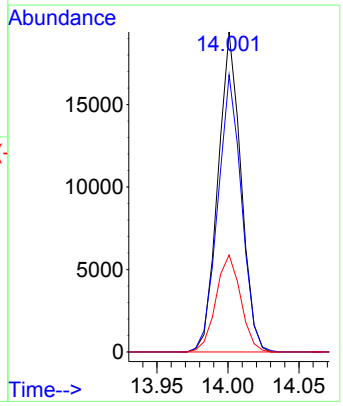




#96
1,2,3-Trichlorobenzene
Concen: 17.83 ug/l
RT: 14.001 min Scan# 2195
Delta R.T. 0.000 min
Lab File: VX021426.D
Acq: 24 Mar 2021 10:49

Tgt Ion:180 Resp: 21794

Ion	Ratio	Lower	Upper
180	100		
182	89.2	47.6	142.9
145	32.6	16.1	48.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021427.D
Acq On : 24 Mar 2021 11:13
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 24 11:44:24 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICCC050

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.629	168	81138	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	132670	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	126559	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	61170	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.029	65	63335	47.86	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 95.72%				
35) Dibromofluoromethane	5.464	113	44674	49.40	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.80%				
50) Toluene-d8	8.694	98	164814	50.01	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.02%				
62) 4-Bromofluorobenzene	11.118	95	63095	49.55	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.187	85	44939	47.20	ug/l		99
3) Chloromethane	1.311	50	49615	27.55	ug/l		100
4) Vinyl Chloride	1.393	62	46392	47.78	ug/l		98
5) Bromomethane	1.622	94	17870	42.78	ug/l		96
6) Chloroethane	1.705	64	29038	48.75	ug/l		98
7) Trichlorofluoromethane	1.911	101	76286	51.74	ug/l		98
8) Diethyl Ether	2.170	74	25462	49.23	ug/l		80
9) 1,1,2-Trichlorotrifluo...	2.358	101	41465	49.40	ug/l		97
10) Methyl Iodide	2.487	142	29459	41.50	ug/l	#	86
11) Tert butyl alcohol	3.023	59	54110	243.77	ug/l		96
12) 1,1-Dichloroethene	2.352	96	39183	47.99	ug/l		83
13) Acrolein	2.276	56	27041	200.22	ug/l		99
14) Allyl chloride	2.705	41	82435	48.97	ug/l	#	89
15) Acrylonitrile	3.117	53	134663	259.40	ug/l		98
16) Acetone	2.423	43	124366	253.30	ug/l		89
17) Carbon Disulfide	2.546	76	109798	43.48	ug/l		99
18) Methyl Acetate	2.752	43	76504	55.61	ug/l		91
19) Methyl tert-butyl Ether	3.164	73	154592	50.37	ug/l		99
20) Methylene Chloride	2.834	84	48381	48.35	ug/l		87
21) trans-1,2-Dichloroethene	3.140	96	44703	48.86	ug/l		93
22) Diisopropyl ether	3.823	45	164138	50.66	ug/l		92
23) Vinyl Acetate	3.782	43	703027	250.65	ug/l	#	92
24) 1,1-Dichloroethane	3.670	63	87532	49.93	ug/l		98
25) 2-Butanone	4.635	43	194137	258.61	ug/l		91
26) 2,2-Dichloropropane	4.552	77	76612	50.24	ug/l		95
27) cis-1,2-Dichloroethene	4.558	96	52272	49.66	ug/l		90
28) Bromochloromethane	4.976	49	41006	49.56	ug/l		84
29) Tetrahydrofuran	5.088	42	125603	253.88	ug/l	#	86
30) Chloroform	5.176	83	93237	51.08	ug/l		98
31) Cyclohexane	5.547	56	76123	48.15	ug/l		92
32) 1,1,1-Trichloroethane	5.464	97	83036	51.31	ug/l		96
36) 1,1-Dichloropropene	5.764	75	65712	49.39	ug/l		96
37) Ethyl Acetate	4.793	43	73462	47.75	ug/l	#	93
38) Carbon Tetrachloride	5.752	117	72486	52.31	ug/l		98
39) Methylcyclohexane	7.435	83	75819	51.30	ug/l		92
40) Benzene	6.111	78	190627	51.88	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021427.D
Acq On : 24 Mar 2021 11:13
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : VSTDICCC050

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

Quant Time: Mar 24 11:44:24 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	5.005	41	43694	49.02	ug/l	#	88
42) 1,2-Dichloroethane	6.158	62	82107	51.63	ug/l		94
43) Isopropyl Acetate	6.411	43	125739	49.82	ug/l	#	91
44) Trichloroethene	7.188	130	49191	50.45	ug/l		98
45) 1,2-Dichloropropane	7.488	63	51949	52.51	ug/l		98
46) Dibromomethane	7.635	93	37639	51.84	ug/l		94
47) Bromodichloromethane	7.876	83	77074	53.05	ug/l		98
48) Methyl methacrylate	7.747	41	68025	50.52	ug/l	#	81
49) 1,4-Dioxane	7.712	88	24037	962.58	ug/l	#	90
51) 4-Methyl-2-Pentanone	8.617	43	396108	267.13	ug/l		88
52) Toluene	8.765	92	120203	52.86	ug/l		99
53) t-1,3-Dichloropropene	9.023	75	79493	51.73	ug/l		99
54) cis-1,3-Dichloropropene	8.412	75	84789	51.83	ug/l	#	85
55) 1,1,2-Trichloroethane	9.194	97	50252	53.78	ug/l		98
56) Ethyl methacrylate	9.159	69	79045	52.83	ug/l	#	76
57) 1,3-Dichloropropane	9.353	76	86056	52.89	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.288	63	215967	262.06	ug/l		95
59) 2-Hexanone	9.471	43	297877	268.51	ug/l		85
60) Dibromochloromethane	9.565	129	57413	54.04	ug/l		97
61) 1,2-Dibromoethane	9.653	107	54783	53.30	ug/l		99
64) Tetrachloroethene	9.318	164	43656	46.64	ug/l		95
65) Chlorobenzene	10.118	112	130192	50.00	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.206	131	50474	52.03	ug/l		99
67) Ethyl Benzene	10.235	91	240420	50.14	ug/l		99
68) m/p-Xylenes	10.341	106	173676	101.34	ug/l		93
69) o-Xylene	10.682	106	83473	50.16	ug/l		93
70) Styrene	10.694	104	143435	51.17	ug/l		95
71) Bromoform	10.841	173	41165	52.66	ug/l	#	99
73) Isopropylbenzene	11.000	105	229785	50.81	ug/l		99
74) N-amyl acetate	10.883	43	106766	47.20	ug/l	#	88
75) 1,1,2,2-Tetrachloroethane	11.253	83	77090	51.33	ug/l		99
76) 1,2,3-Trichloropropane	11.277	75	75866m	52.42	ug/l		
77) Bromobenzene	11.235	156	55344	51.38	ug/l		94
78) n-propylbenzene	11.341	91	268161	50.76	ug/l		99
79) 2-Chlorotoluene	11.400	91	161411	50.26	ug/l		97
80) 1,3,5-Trimethylbenzene	11.488	105	196451	51.40	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.059	75	24311	47.39	ug/l	#	84
82) 4-Chlorotoluene	11.494	91	191248	50.54	ug/l		97
83) tert-Butylbenzene	11.753	119	187402	51.34	ug/l		93
84) 1,2,4-Trimethylbenzene	11.789	105	197261	50.77	ug/l		98
85) sec-Butylbenzene	11.930	105	222152	51.60	ug/l		99
86) p-Isopropyltoluene	12.047	119	205948	52.27	ug/l		97
87) 1,3-Dichlorobenzene	12.006	146	97547	49.75	ug/l		98
88) 1,4-Dichlorobenzene	12.083	146	98243	49.23	ug/l		97
89) n-Butylbenzene	12.371	91	184796	51.48	ug/l		96
90) Hexachloroethane	12.577	117	35137	57.42	ug/l		95
91) 1,2-Dichlorobenzene	12.371	146	94044	49.43	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.983	75	18401	48.04	ug/l		80
93) 1,2,4-Trichlorobenzene	13.630	180	62880	50.11	ug/l		99
94) Hexachlorobutadiene	13.765	225	27802	52.60	ug/l		99
95) Naphthalene	13.818	128	212118	49.47	ug/l		99
96) 1,2,3-Trichlorobenzene	14.001	180	62885	50.63	ug/l		98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021427.D
Acq On : 24 Mar 2021 11:13
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 24 11:44:24 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

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

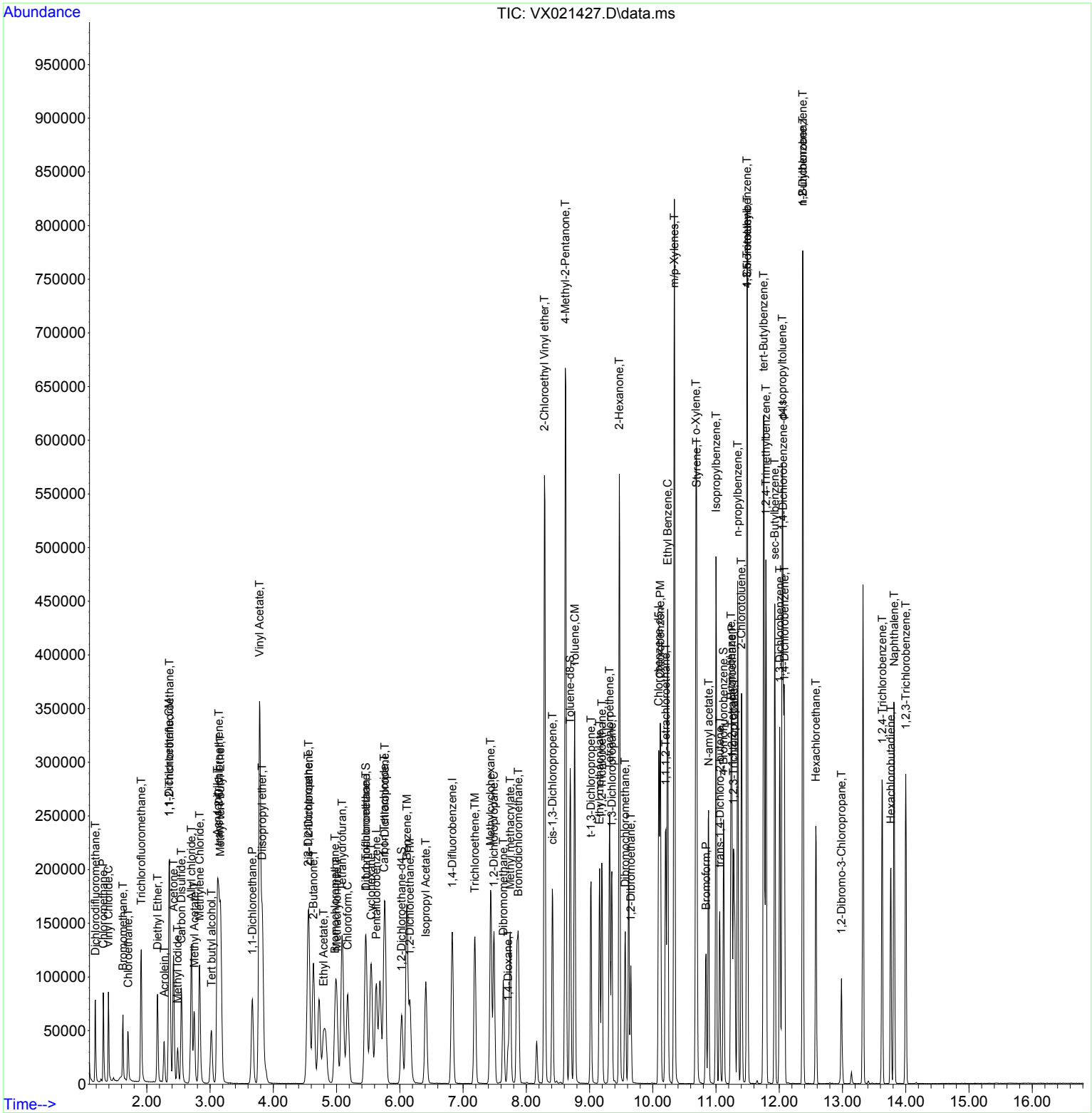
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021427.D
Acq On : 24 Mar 2021 11:13
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 24 11:44:24 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

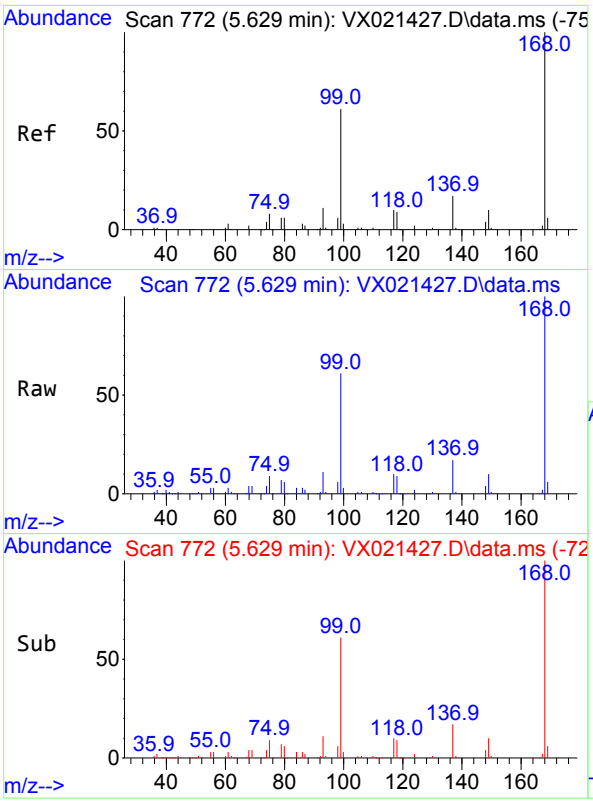
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
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3/25/2021 9:49:31 AM



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

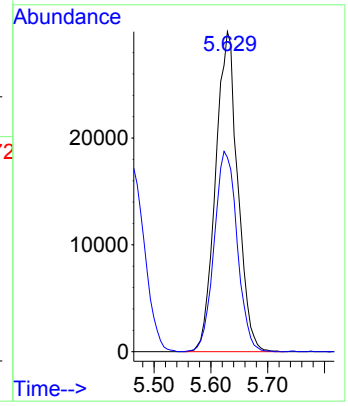
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3/25/2021 9:49:31 AM

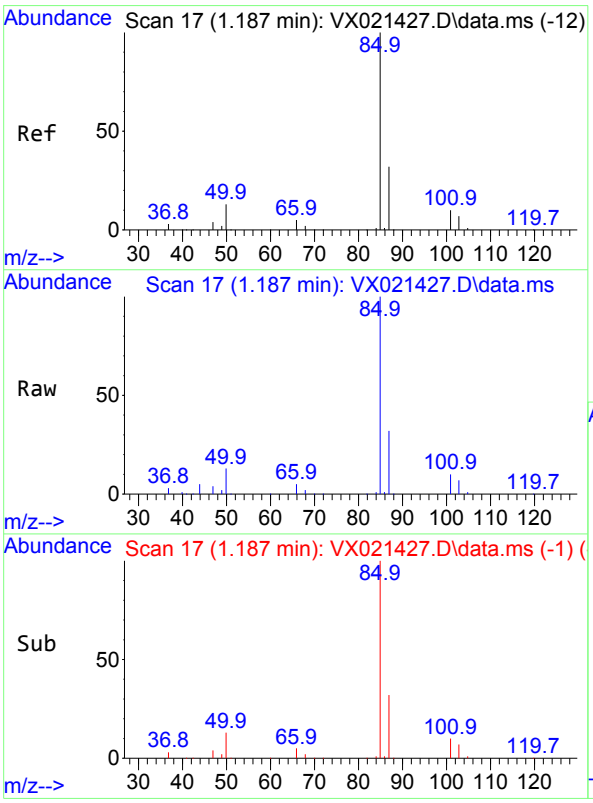


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 772
Delta R.T. -0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:168 Resp: 81138

Ion	Ratio	Lower	Upper
168	100		
99	60.7	45.8	68.6

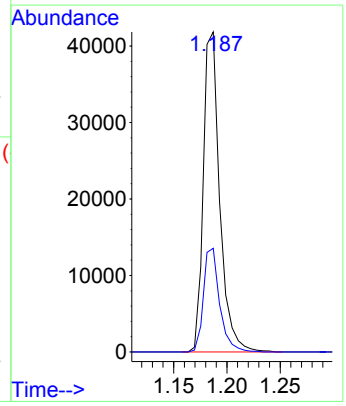




#2
Dichlorodifluoromethane
Concen: 47.20 ug/l
RT: 1.187 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

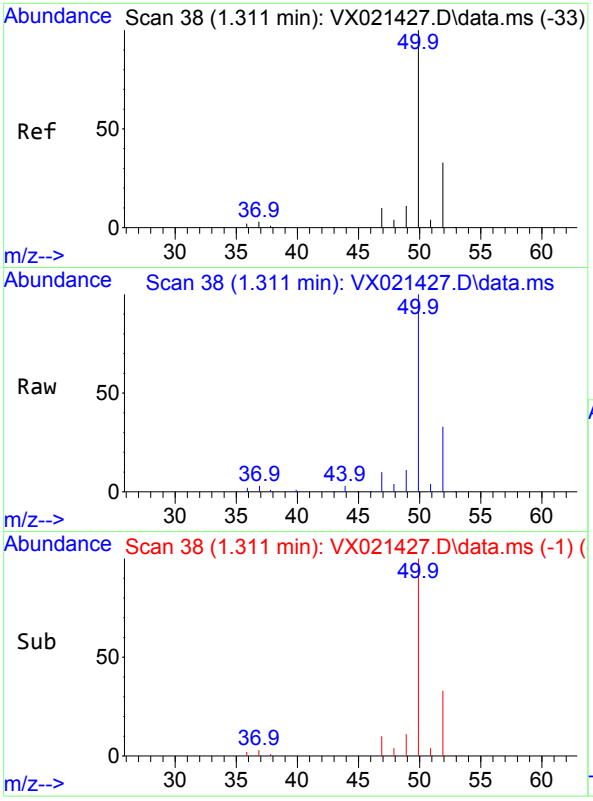
Tgt Ion: 85 Resp: 44939

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

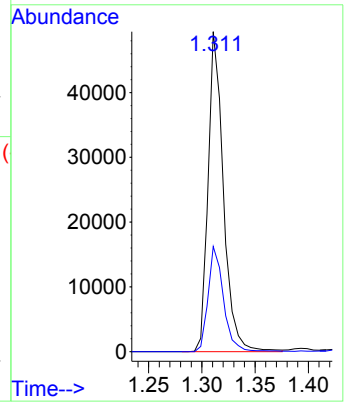
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

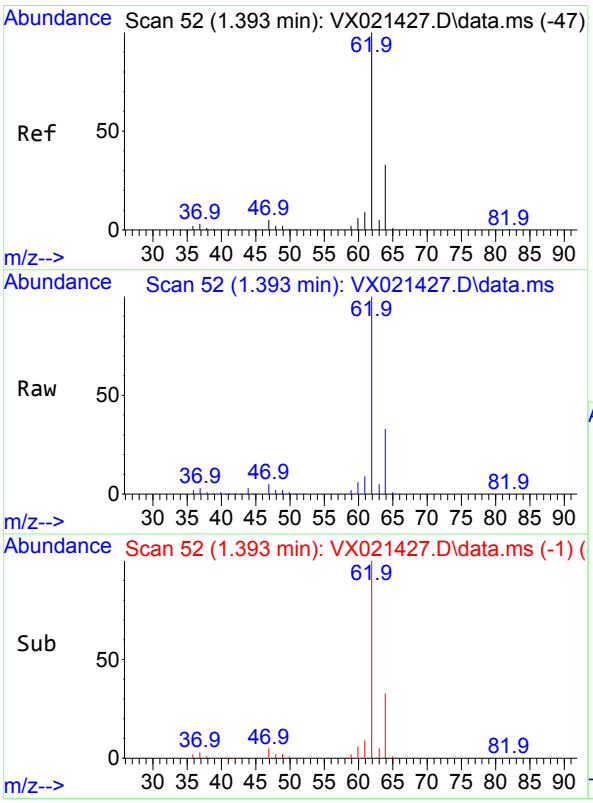


#3
Chloromethane
Concen: 27.55 ug/l
RT: 1.311 min Scan# 38
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 50 Resp: 49615

Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.4	39.6

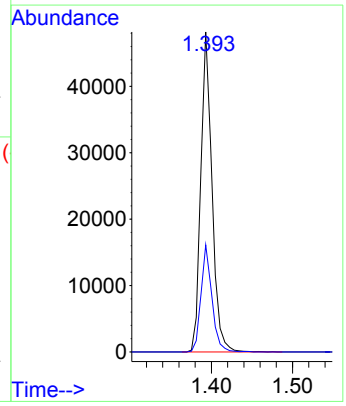




#4
Vinyl Chloride
Concen: 47.78 ug/l
RT: 1.393 min Scan# 52
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

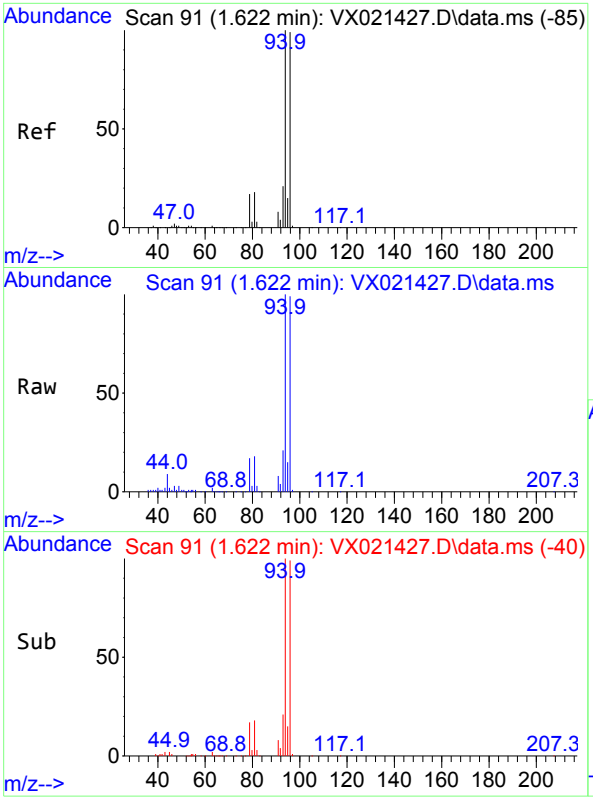
Tgt Ion: 62 Resp: 46392

Ion	Ratio	Lower	Upper
62	100		
64	33.4	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

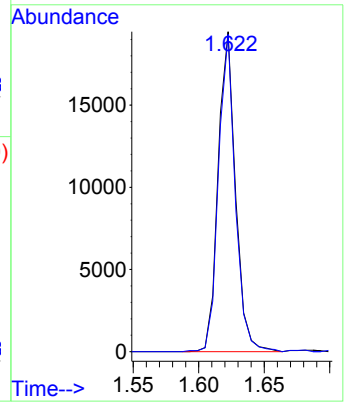
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

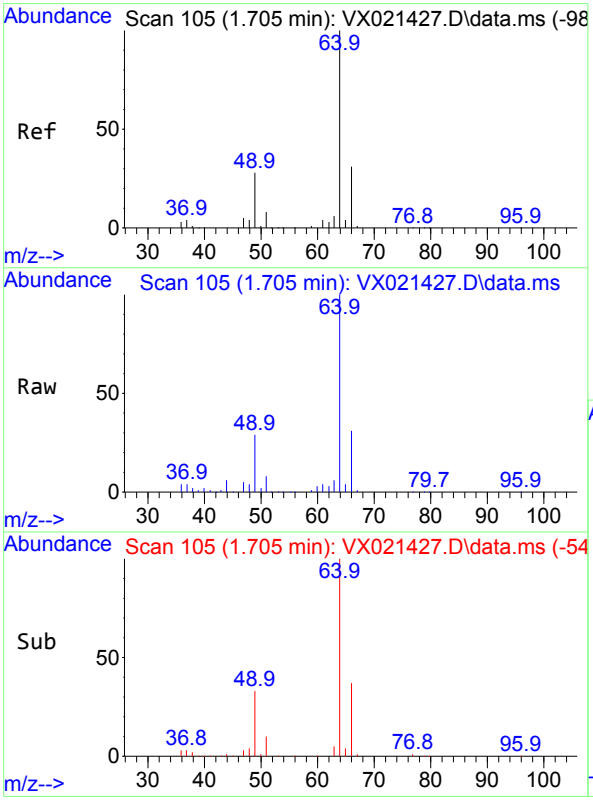


#5
Bromomethane
Concen: 42.78 ug/l
RT: 1.622 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 94 Resp: 17870

Ion	Ratio	Lower	Upper
94	100		
96	99.1	76.4	114.6

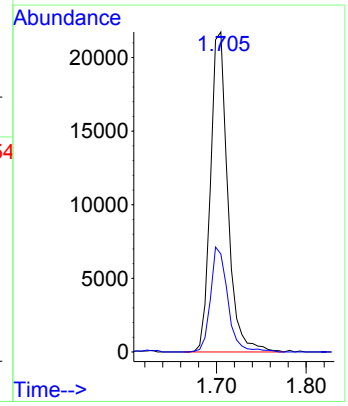




#6
Chloroethane
Concen: 48.75 ug/l
RT: 1.705 min Scan# 105
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

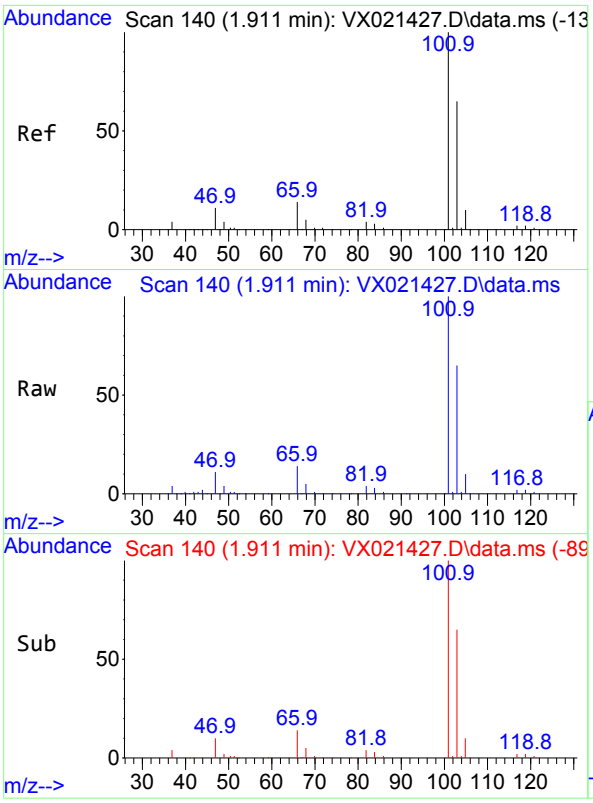
Tgt Ion: 64 Resp: 29038

Ion	Ratio	Lower	Upper
64	100		
66	30.6	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

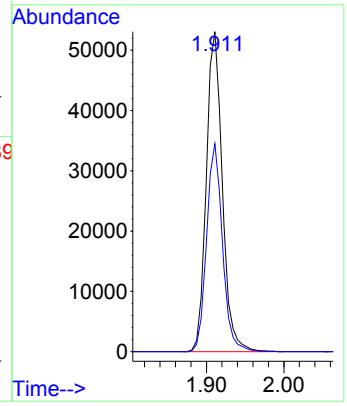
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

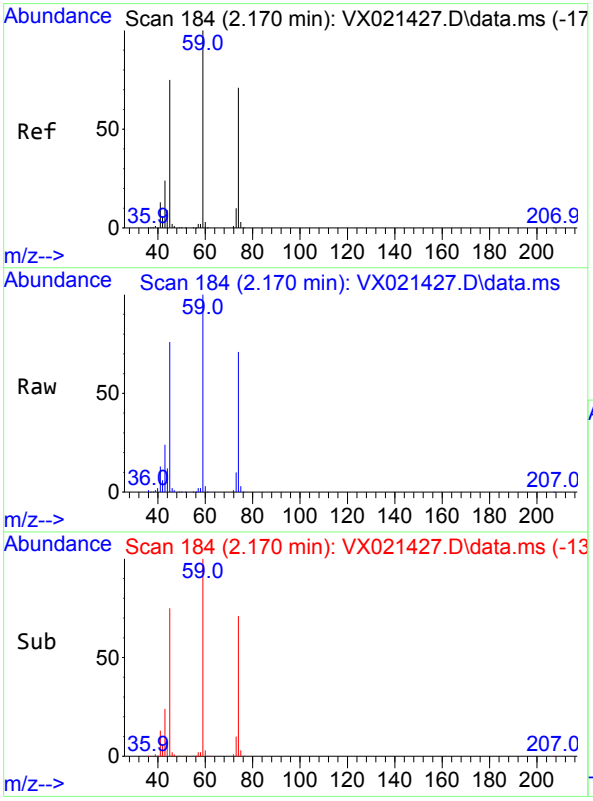


#7
Trichlorofluoromethane
Concen: 51.74 ug/l
RT: 1.911 min Scan# 140
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:101 Resp: 76286

Ion	Ratio	Lower	Upper
101	100		
103	65.0	53.2	79.8

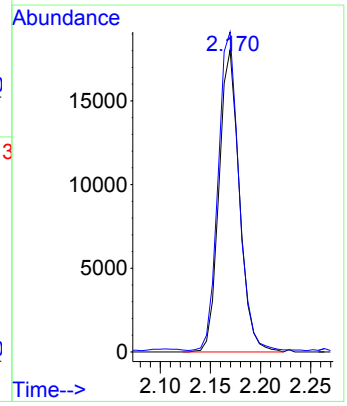




#8
Diethyl Ether
Concen: 49.23 ug/l
RT: 2.170 min Scan# 184
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

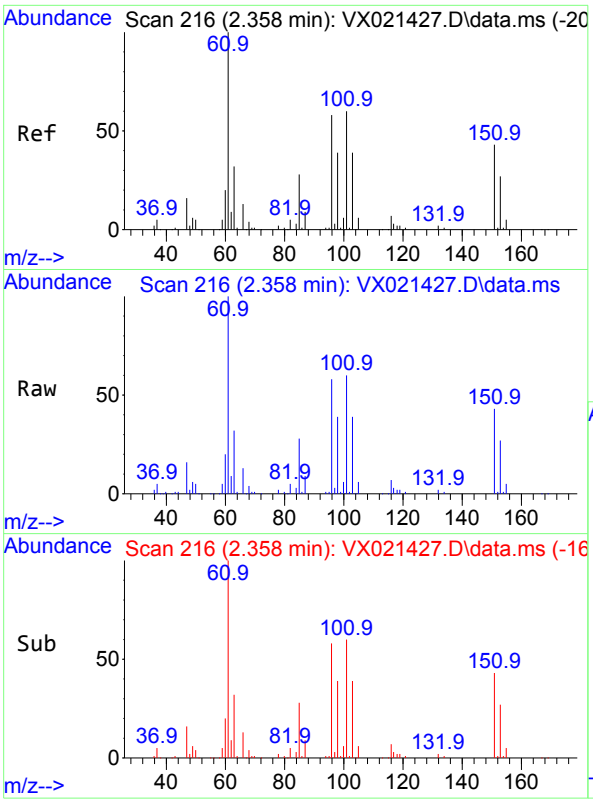
Tgt Ion: 74 Resp: 25462

Ion	Ratio	Lower	Upper
74	100		
45	107.8	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

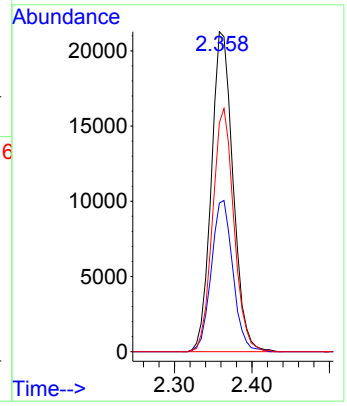
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

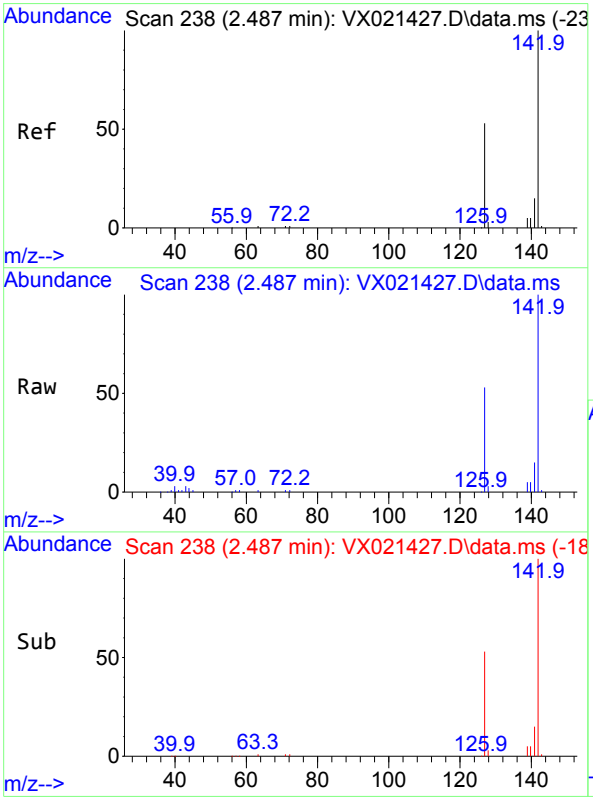


#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.40 ug/l
RT: 2.358 min Scan# 216
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:101 Resp: 41465

Ion	Ratio	Lower	Upper
101	100		
85	46.9	34.9	52.3
151	74.7	61.4	92.2

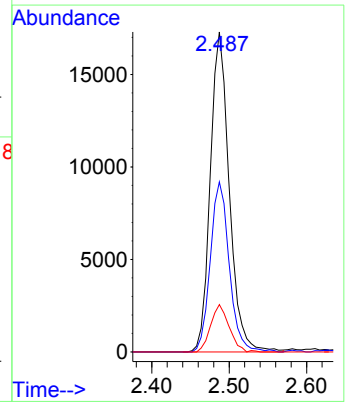




#10
Methyl Iodide
Concen: 41.50 ug/l
RT: 2.487 min Scan# 238
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

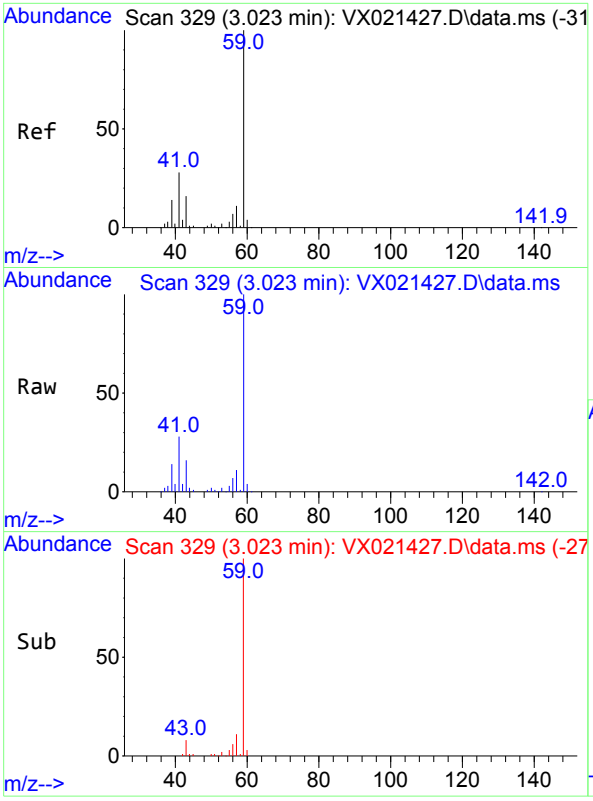
Tgt Ion:142 Resp: 29459

Ion	Ratio	Lower	Upper
142	100		
127	53.1	33.3	49.9#
141	14.4	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

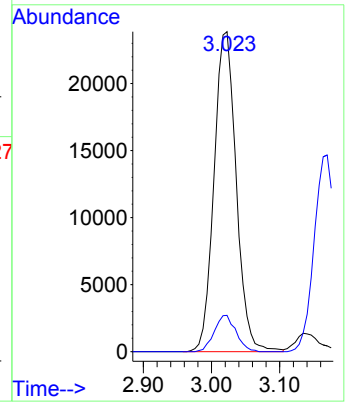
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

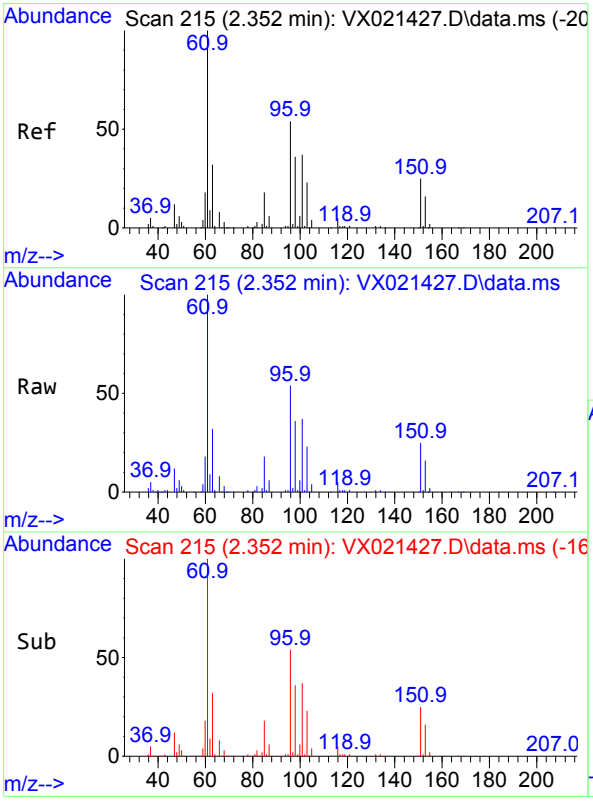


#11
Tert butyl alcohol
Concen: 243.77 ug/l
RT: 3.023 min Scan# 329
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 59 Resp: 54110

Ion	Ratio	Lower	Upper
59	100		
57	11.1	7.8	11.8

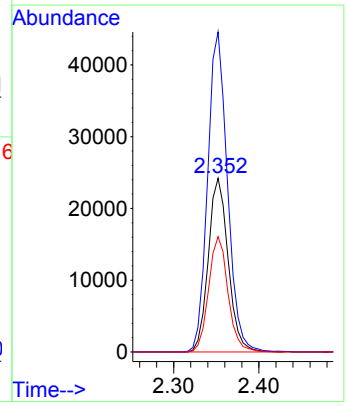




#12
1,1-Dichloroethene
Concen: 47.99 ug/l
RT: 2.352 min Scan# 215
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

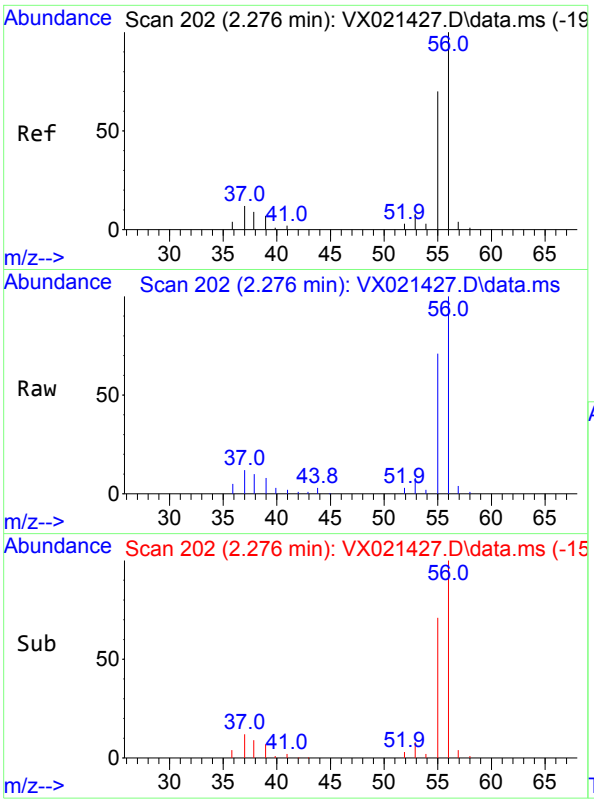
Tgt Ion: 96 Resp: 39183

Ion	Ratio	Lower	Upper
96	100		
61	184.2	124.6	187.0
98	66.4	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

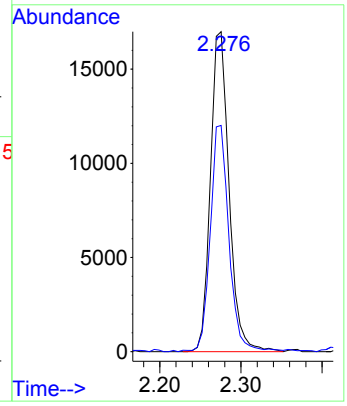
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

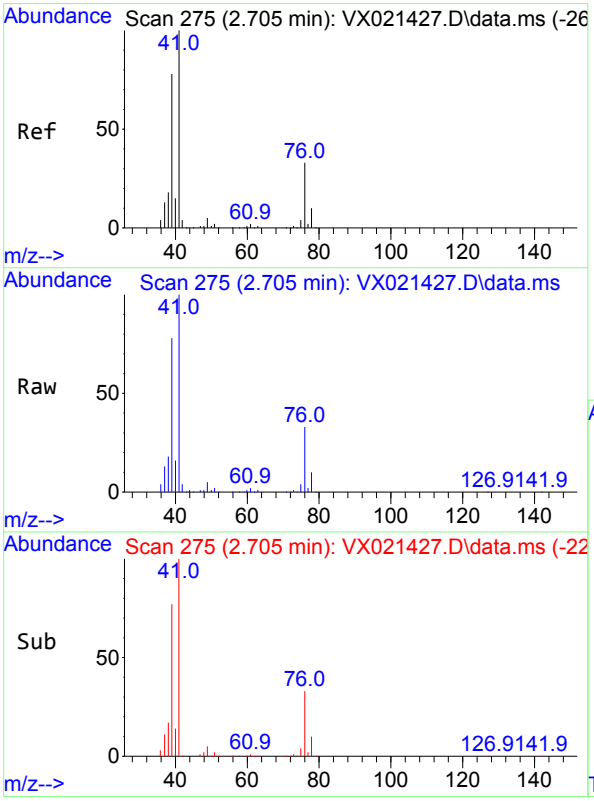


#13
Acrolein
Concen: 200.22 ug/l
RT: 2.276 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 56 Resp: 27041

Ion	Ratio	Lower	Upper
56	100		
55	71.0	56.4	84.6

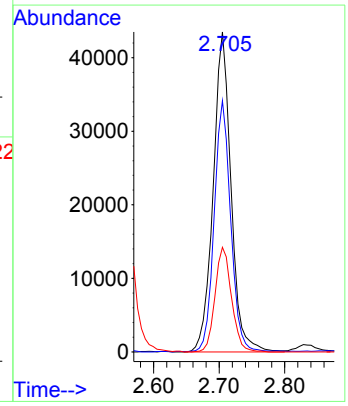




#14
Allyl chloride
Concen: 48.97 ug/l
RT: 2.705 min Scan# 275
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

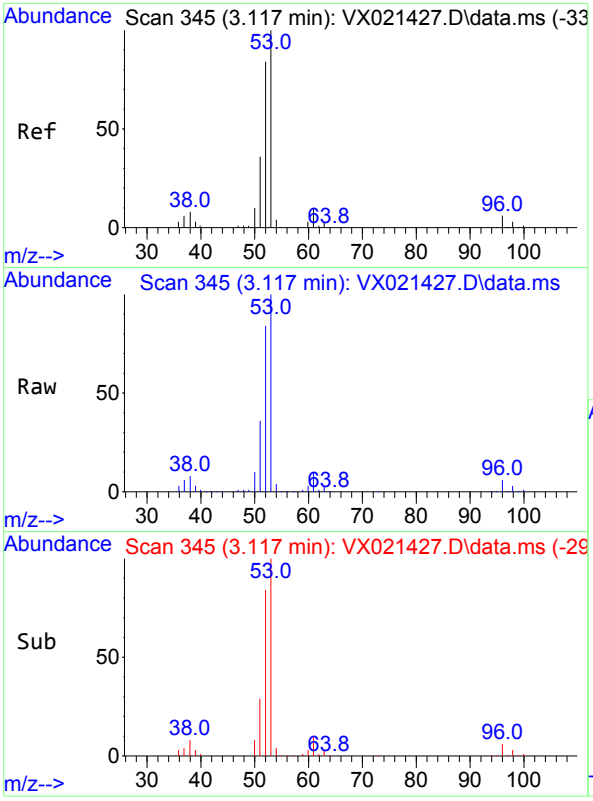
Tgt Ion: 41 Resp: 82435

Ion	Ratio	Lower	Upper
41	100		
39	72.7	51.6	77.4
76	30.2	30.5	45.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

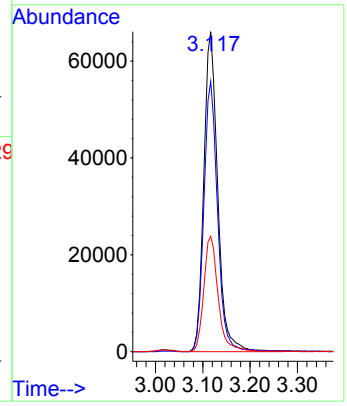
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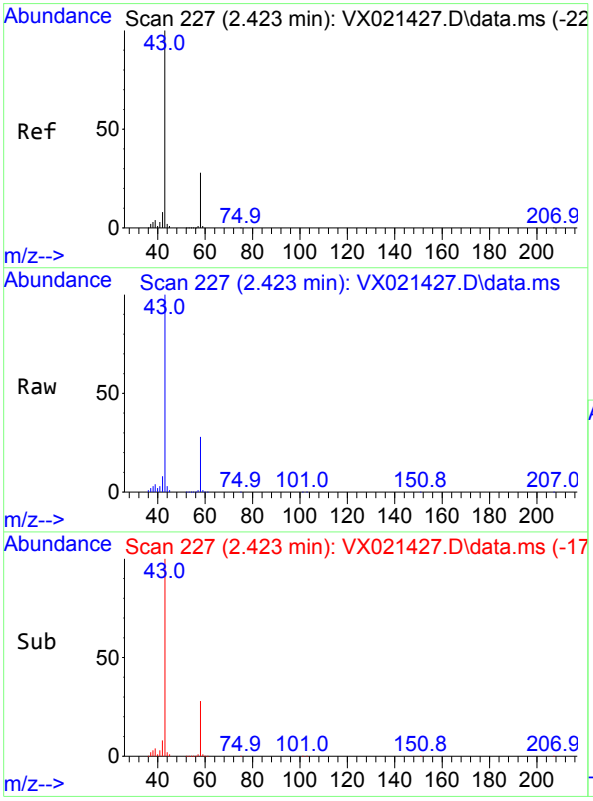


#15
Acrylonitrile
Concen: 259.40 ug/l
RT: 3.117 min Scan# 345
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 53 Resp: 134663

Ion	Ratio	Lower	Upper
53	100		
52	83.0	65.3	97.9
51	37.0	28.2	42.2

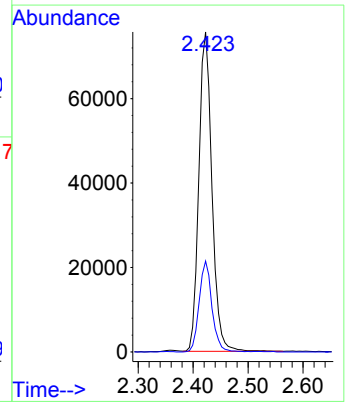




#16
Acetone
Concen: 253.30 ug/l
RT: 2.423 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

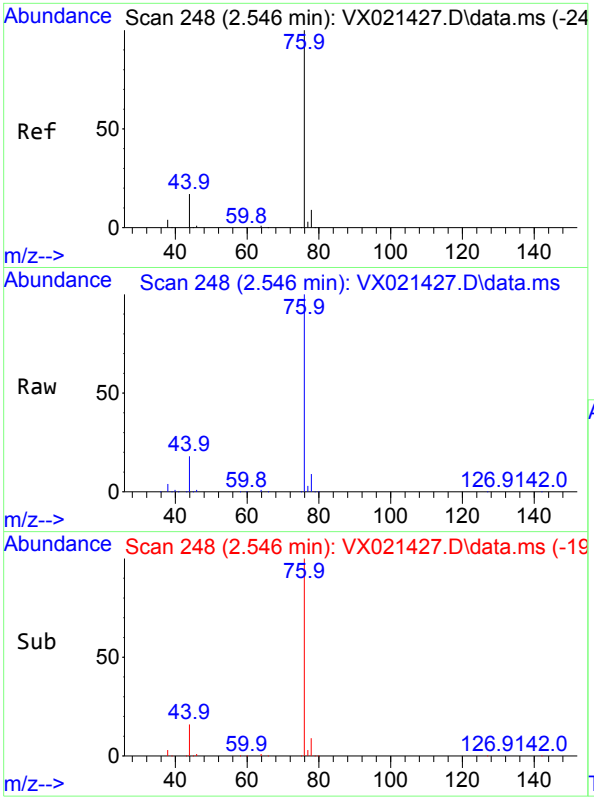
Tgt Ion: 43 Resp: 124366

Ion	Ratio	Lower	Upper
43	100		
58	28.5	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

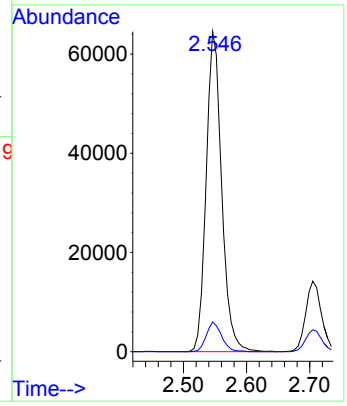
Manual Integrations APPROVED
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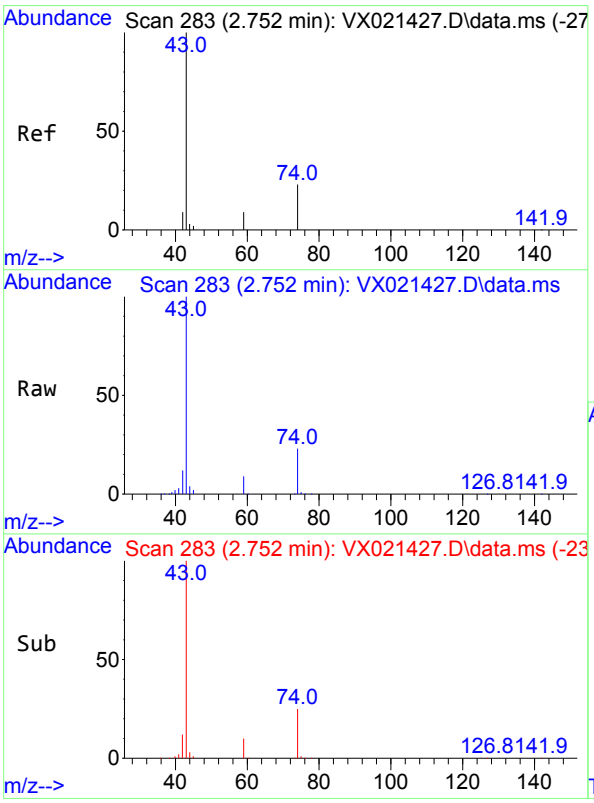


#17
Carbon Disulfide
Concen: 43.48 ug/l
RT: 2.546 min Scan# 248
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 76 Resp: 109798

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8

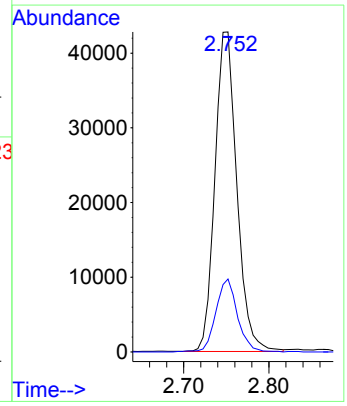




#18
Methyl Acetate
Concen: 55.61 ug/l
RT: 2.752 min Scan# 283
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

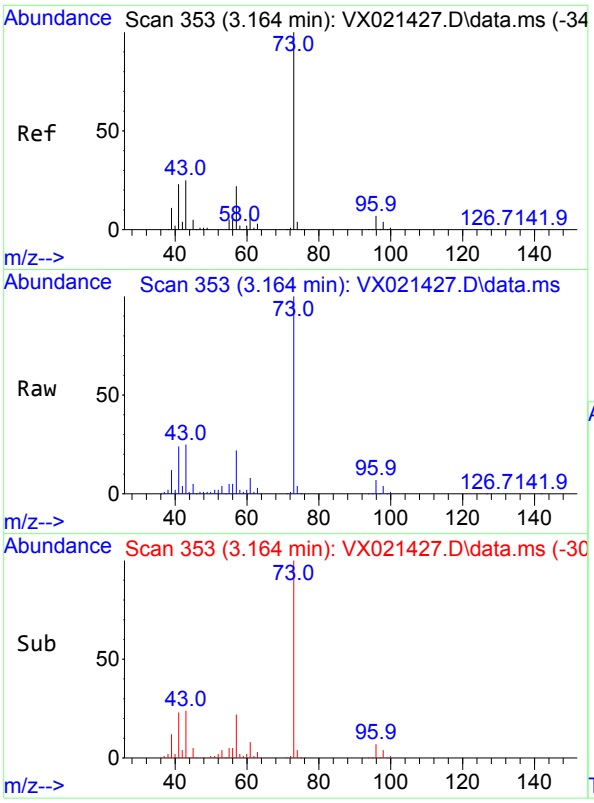
Tgt Ion: 43 Resp: 76504

Ion	Ratio	Lower	Upper
43	100		
74	22.5	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

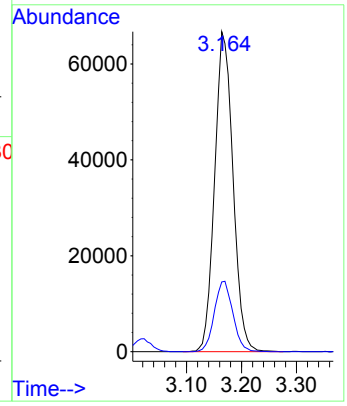
Manual Integrations APPROVED
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3/25/2021 9:49:31 AM

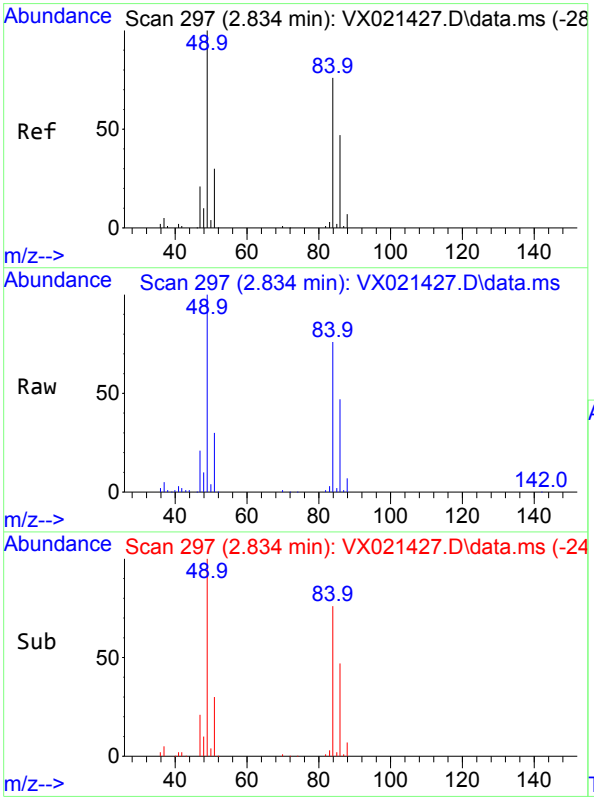


#19
Methyl tert-butyl Ether
Concen: 50.37 ug/l
RT: 3.164 min Scan# 353
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 73 Resp: 154592

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.1	25.7

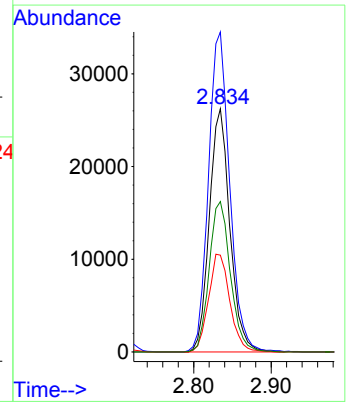




#20
Methylene Chloride
Concen: 48.35 ug/l
RT: 2.834 min Scan# 297
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

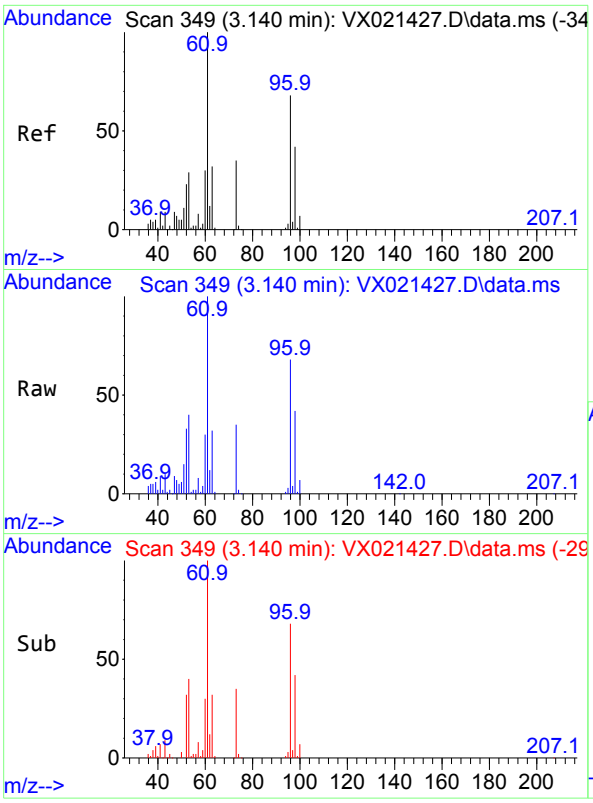
Tgt Ion: 84 Resp: 48381

Ion	Ratio	Lower	Upper
84	100		
49	131.6	88.6	132.8
51	39.8	27.0	40.6
86	61.8	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

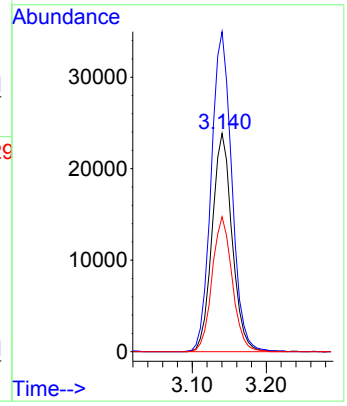
Manual Integrations APPROVED
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3/25/2021 9:49:31 AM

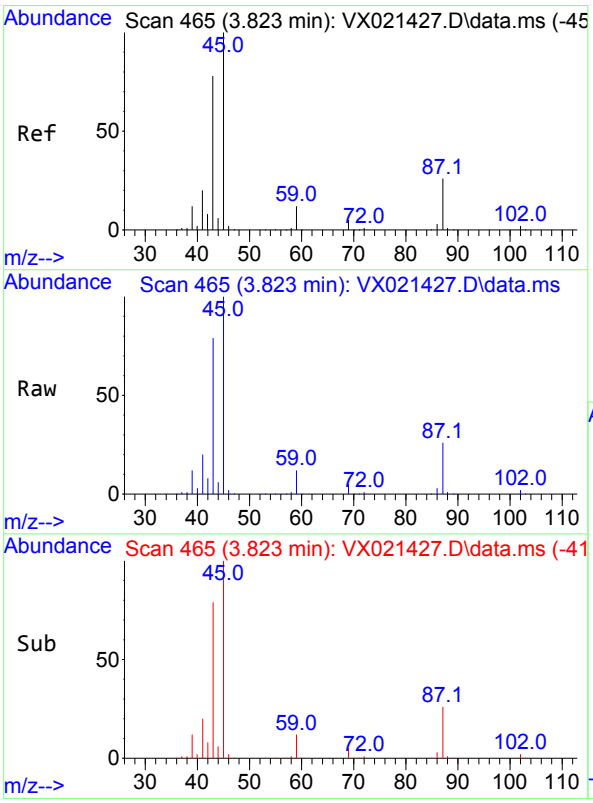


#21
trans-1,2-Dichloroethene
Concen: 48.86 ug/l
RT: 3.140 min Scan# 349
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 96 Resp: 44703

Ion	Ratio	Lower	Upper
96	100		
61	146.7	107.7	161.5
98	61.8	50.4	75.6

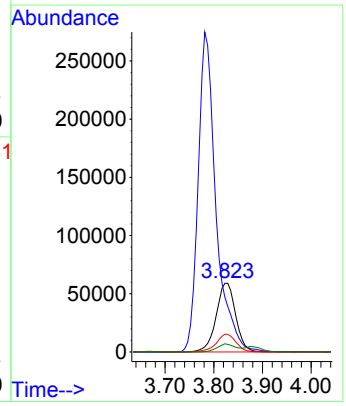




#22
Diisopropyl ether
Concen: 50.66 ug/l
RT: 3.823 min Scan# 465
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

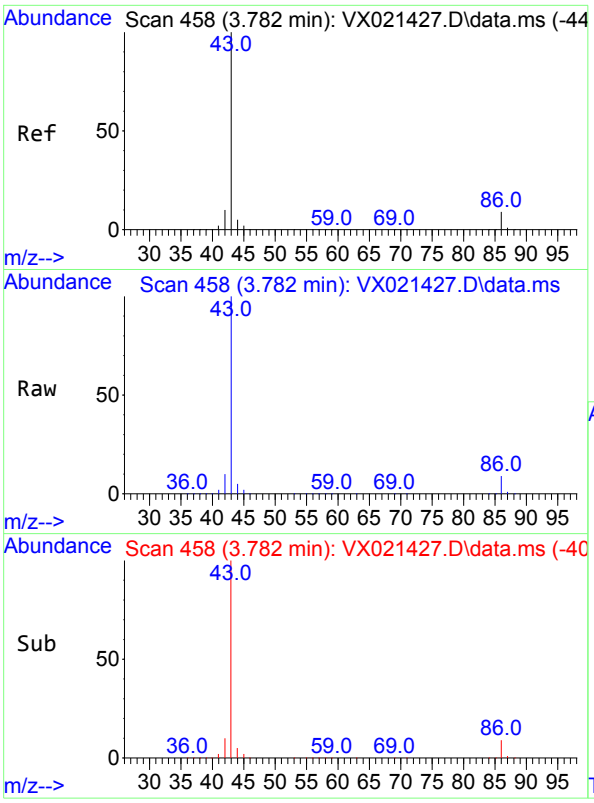
Tgt Ion: 45 Resp: 164138

Ion	Ratio	Lower	Upper
45	100		
43	79.0	58.0	87.0
87	25.9	25.4	38.0
59	12.0	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

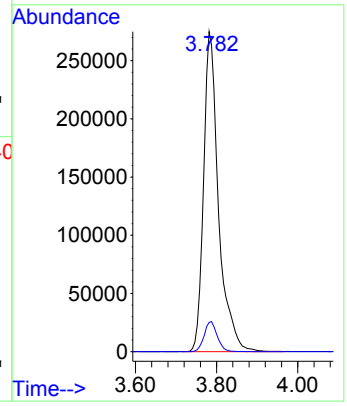
Manual Integrations APPROVED
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3/25/2021 9:49:31 AM

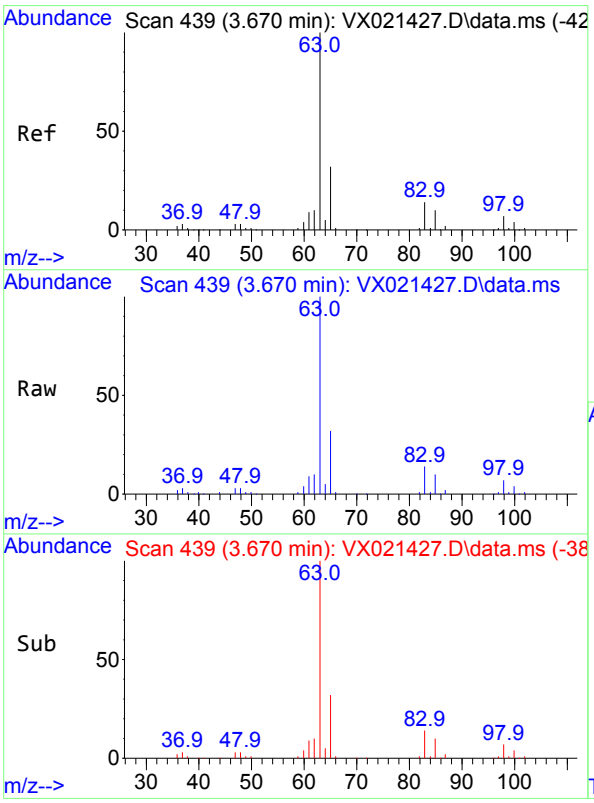


#23
Vinyl Acetate
Concen: 250.65 ug/l
RT: 3.782 min Scan# 458
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 43 Resp: 703027

Ion	Ratio	Lower	Upper
43	100		
86	9.1	9.9	14.9#

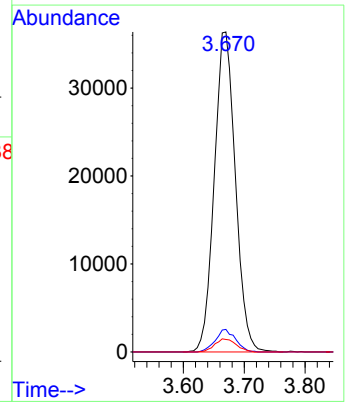




#24
1,1-Dichloroethane
Concen: 49.93 ug/l
RT: 3.670 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

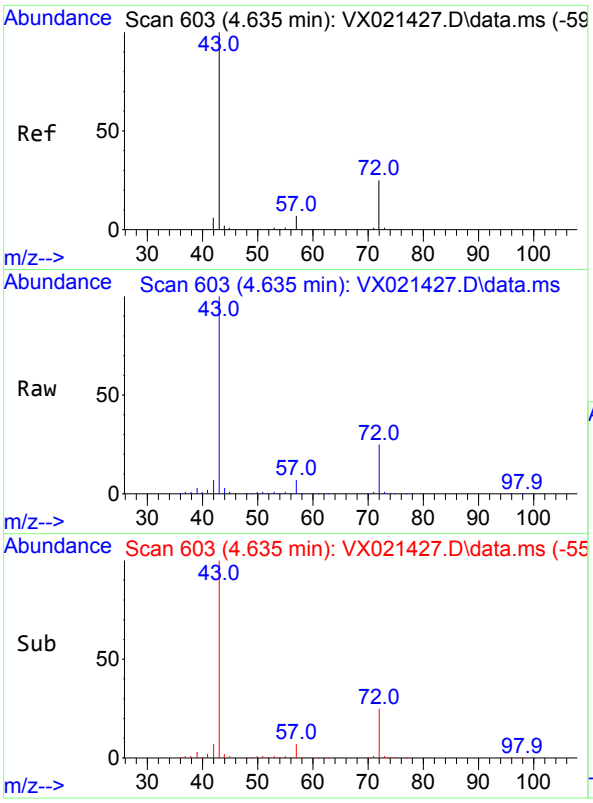
Tgt Ion: 63 Resp: 87532

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.8	11.2
100	3.9	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

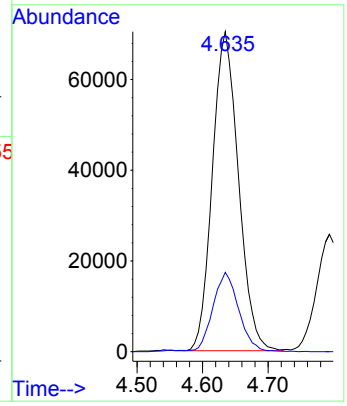
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

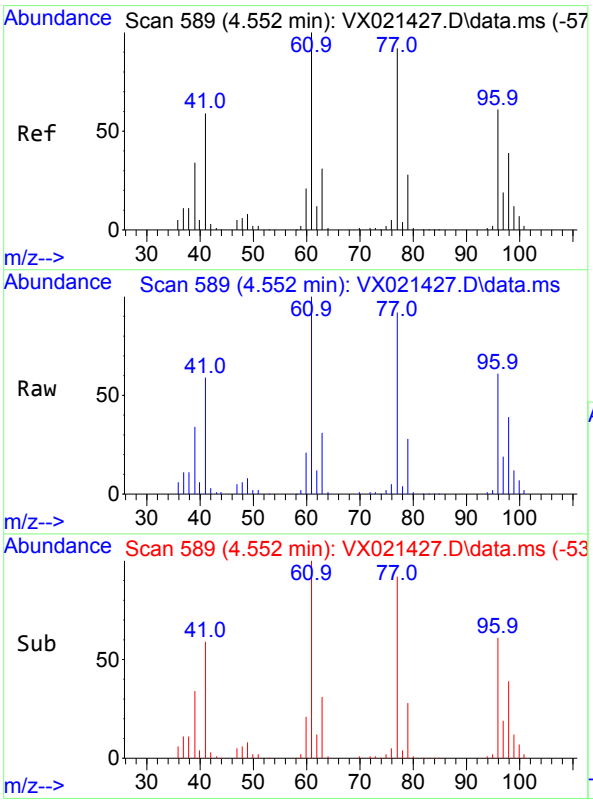


#25
2-Butanone
Concen: 258.61 ug/l
RT: 4.635 min Scan# 603
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 43 Resp: 194137

Ion	Ratio	Lower	Upper
43	100		
72	24.8	23.7	35.5

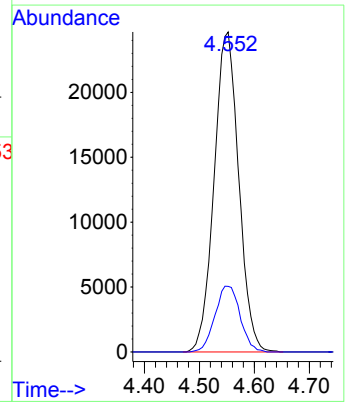




#26
2,2-Dichloropropane
Concen: 50.24 ug/l
RT: 4.552 min Scan# 589
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

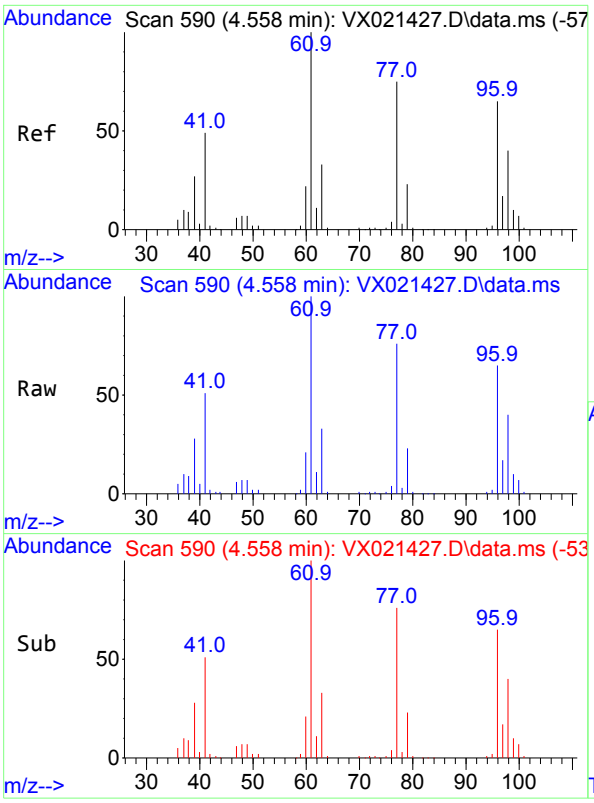
Tgt Ion: 77 Resp: 76612

Ion	Ratio	Lower	Upper
77	100		
97	21.1	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

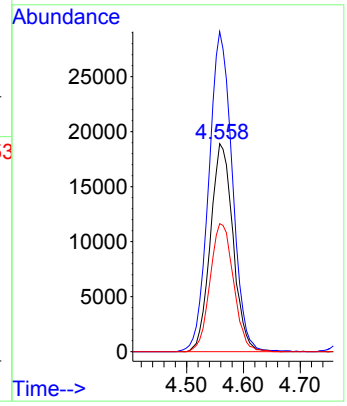
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

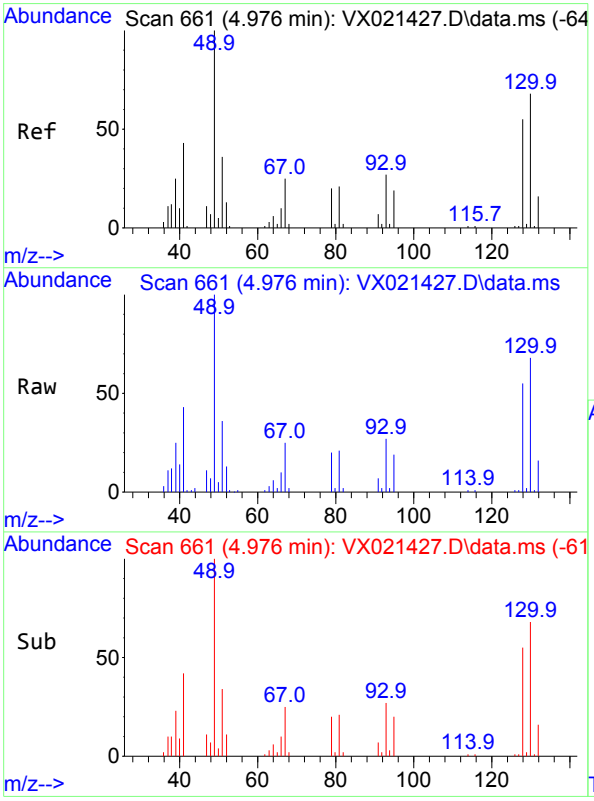


#27
cis-1,2-Dichloroethene
Concen: 49.66 ug/l
RT: 4.558 min Scan# 590
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 96 Resp: 52272

Ion	Ratio	Lower	Upper
96	100		
61	159.8	0.0	285.6
98	63.9	0.0	129.6

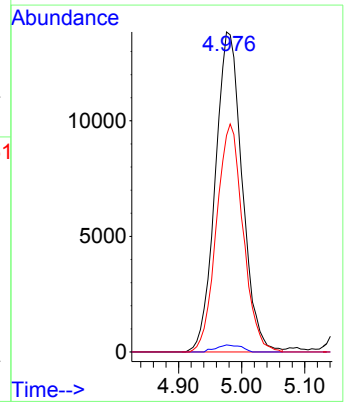




#28
Bromochloromethane
Concen: 49.56 ug/l
RT: 4.976 min Scan# 661
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

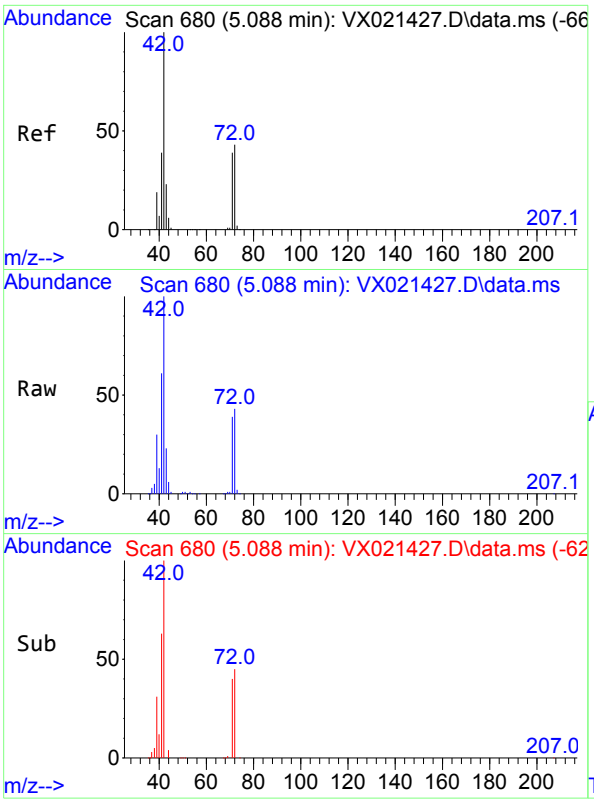
Tgt Ion: 49 Resp: 41006

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	70.4	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

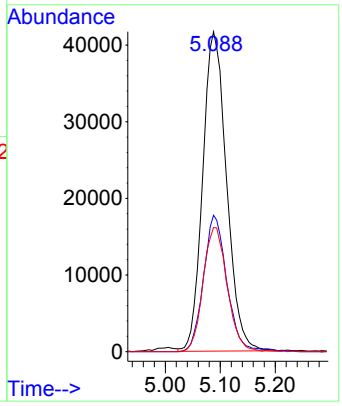
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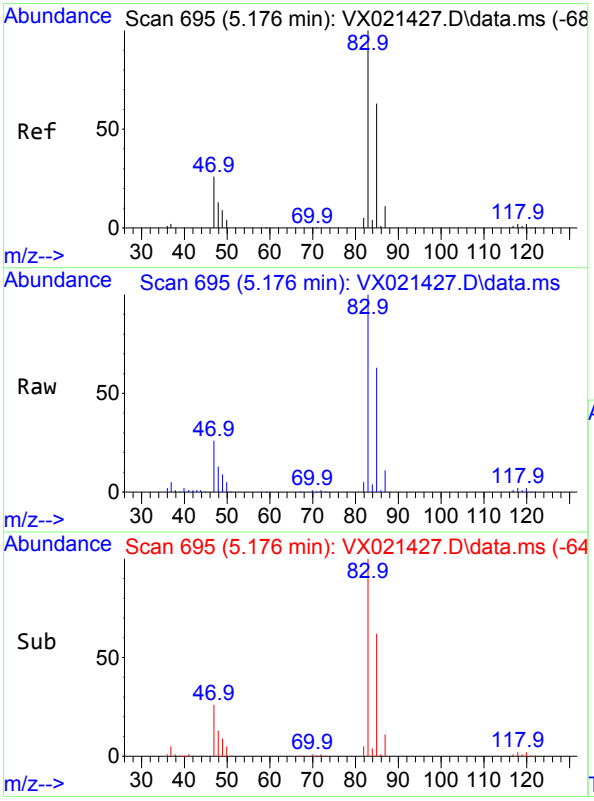


#29
Tetrahydrofuran
Concen: 253.88 ug/l
RT: 5.088 min Scan# 680
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 42 Resp: 125603

Ion	Ratio	Lower	Upper
42	100		
72	41.5	41.7	62.5#
71	39.1	38.4	57.6

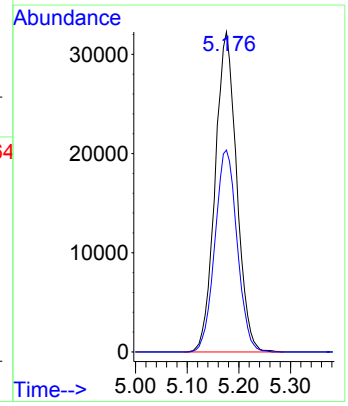




#30
Chloroform
Concen: 51.08 ug/l
RT: 5.176 min Scan# 695
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

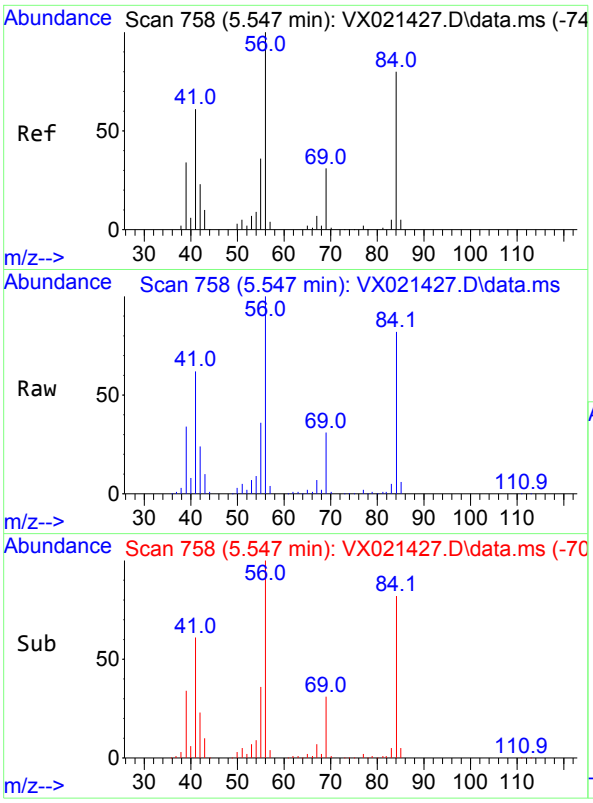
Tgt Ion: 83 Resp: 93237

Ion	Ratio	Lower	Upper
83	100		
85	63.1	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

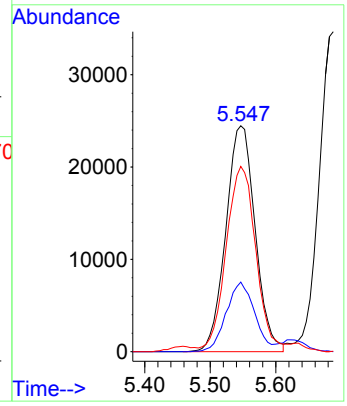
Manual Integrations APPROVED
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3/25/2021 9:49:31 AM

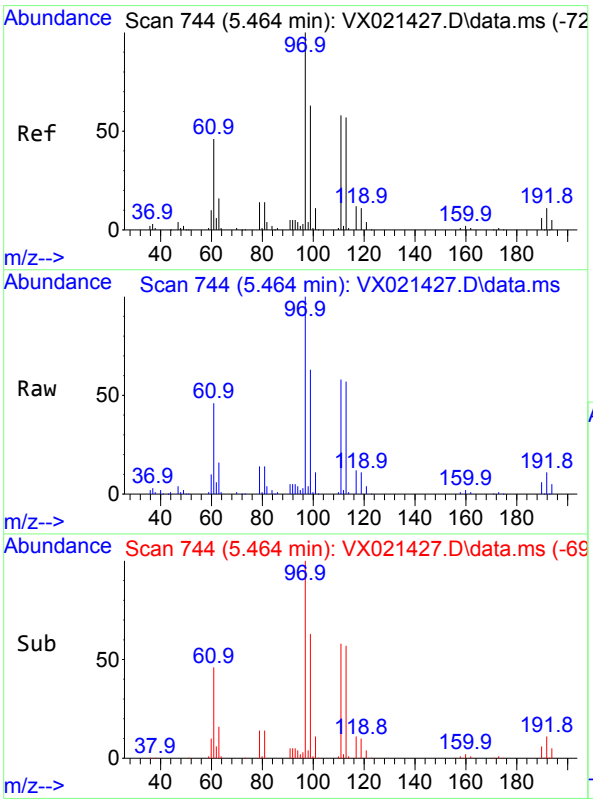


#31
Cyclohexane
Concen: 48.15 ug/l
RT: 5.547 min Scan# 758
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 56 Resp: 76123

Ion	Ratio	Lower	Upper
56	100		
69	30.8	25.3	37.9
84	79.6	71.4	107.0

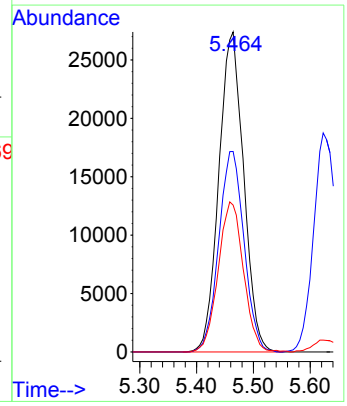




#32
1,1,1-Trichloroethane
Concen: 51.31 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

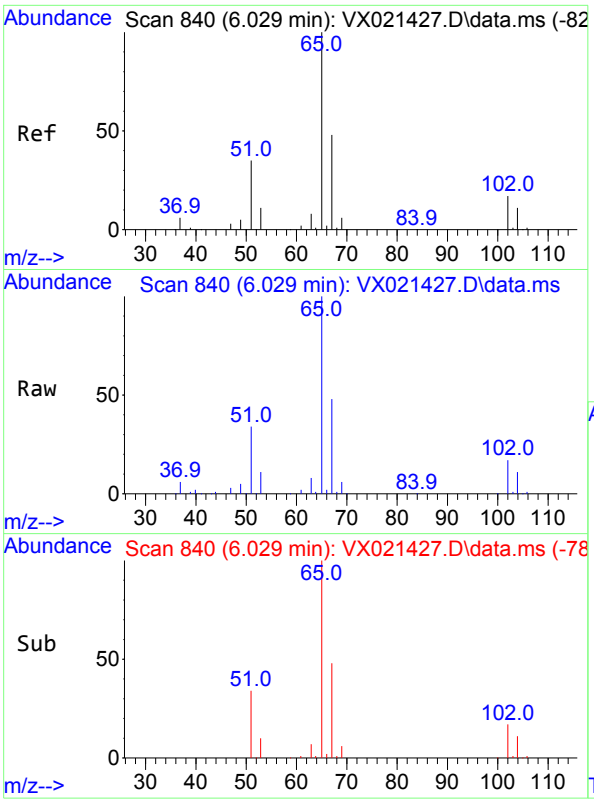
Tgt Ion: 97 Resp: 83036

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.5	77.3
61	48.0	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

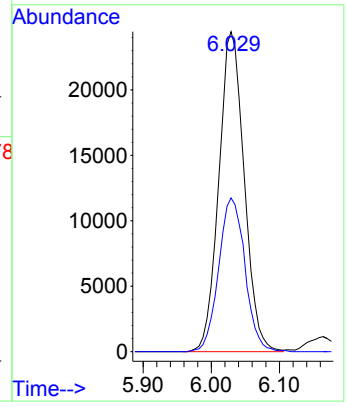
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

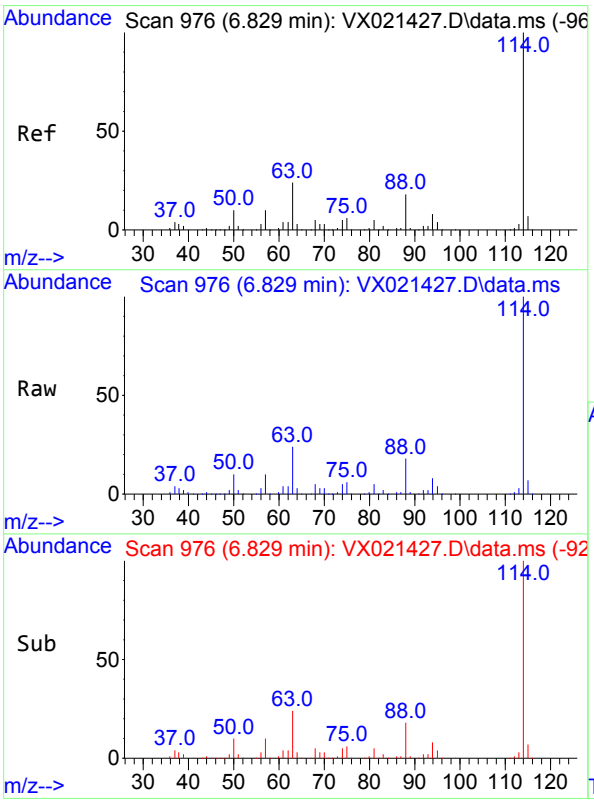


#33
1,2-Dichloroethane-d4
Concen: 47.86 ug/l
RT: 6.029 min Scan# 840
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 65 Resp: 63335

Ion	Ratio	Lower	Upper
65	100		
67	49.8	0.0	105.4

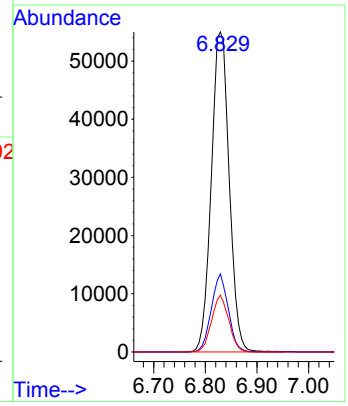




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

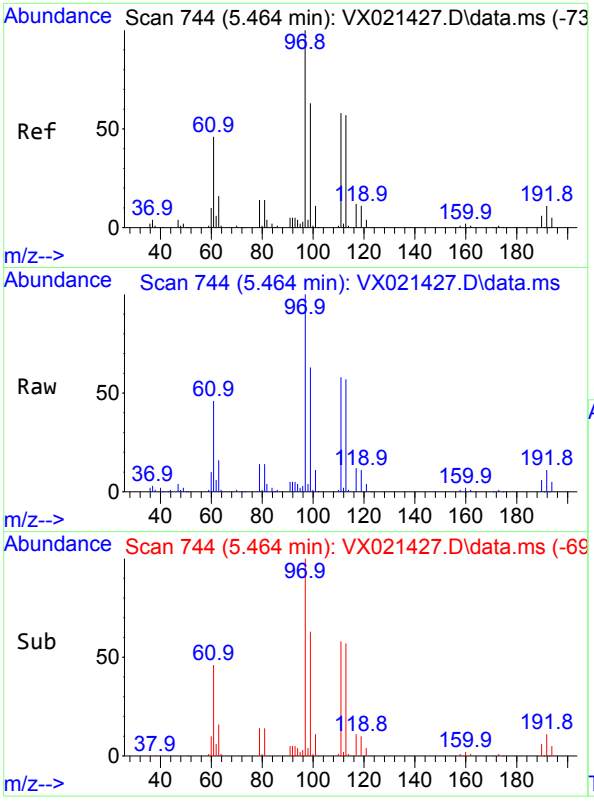
Tgt Ion:114 Resp: 132670

Ion	Ratio	Lower	Upper
114	100		
63	24.4	0.0	40.8
88	17.8	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

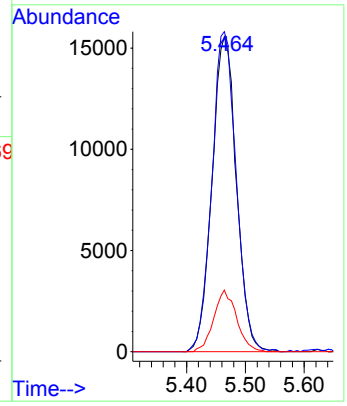
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

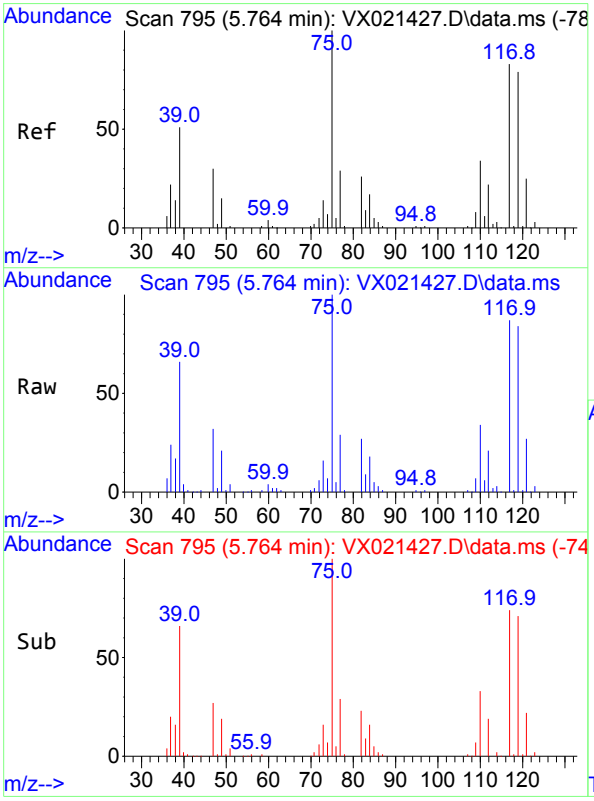


#35
Dibromofluoromethane
Concen: 49.40 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:113 Resp: 44674

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.9	122.9
192	18.4	16.7	25.1

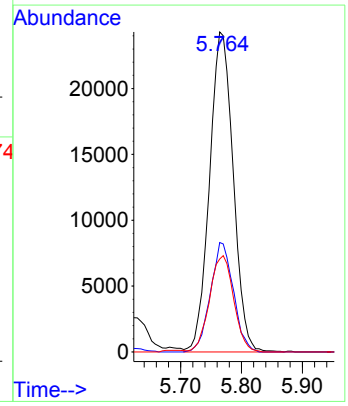




#36
1,1-Dichloropropene
Concen: 49.39 ug/l
RT: 5.764 min Scan# 795
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

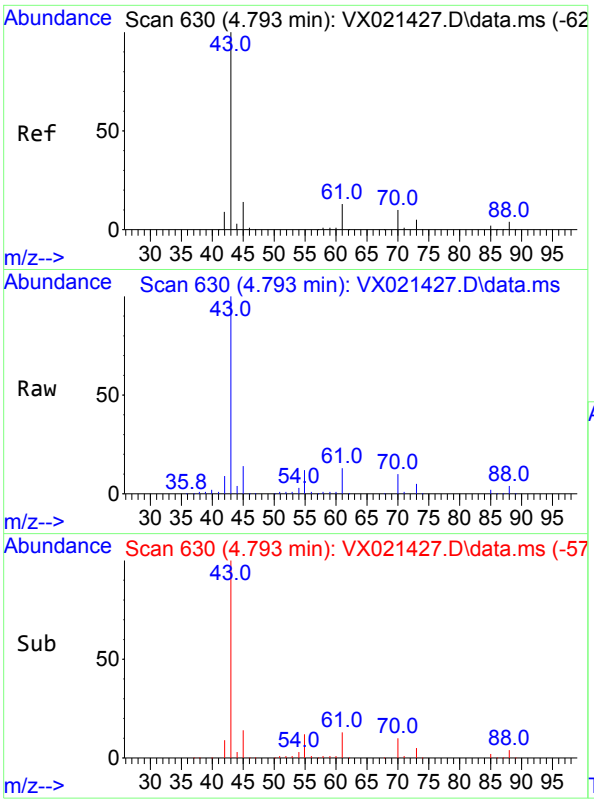
Tgt Ion: 75 Resp: 65712

Ion	Ratio	Lower	Upper
75	100		
110	33.1	18.1	54.4
77	30.7	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

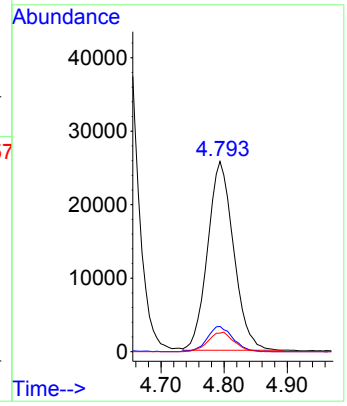
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MMDadoda
3/25/2021 9:49:31 AM

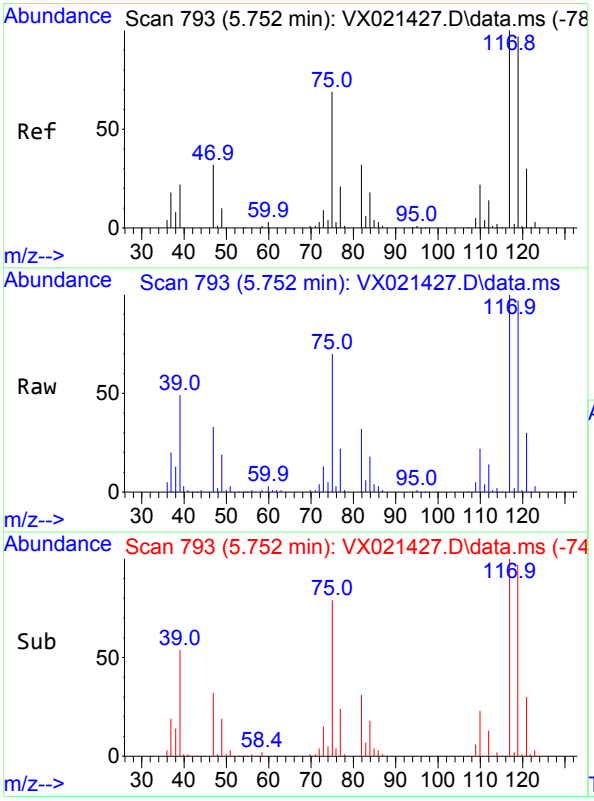


#37
Ethyl Acetate
Concen: 47.75 ug/l
RT: 4.793 min Scan# 630
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 43 Resp: 73462

Ion	Ratio	Lower	Upper
43	100		
61	13.3	12.8	19.2
70	10.3	10.5	15.7#

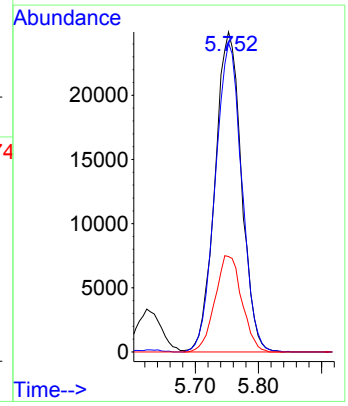




#38
Carbon Tetrachloride
Concen: 52.31 ug/l
RT: 5.752 min Scan# 793
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

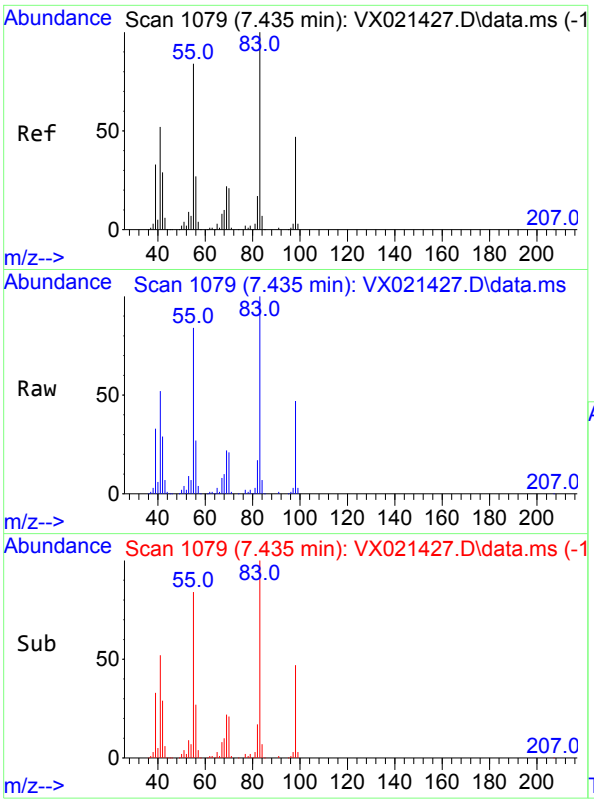
Tgt Ion:117 Resp: 72486

Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.2	114.2
121	29.8	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

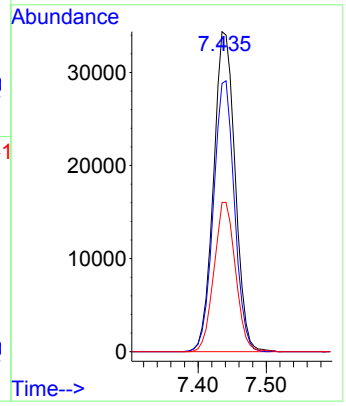
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

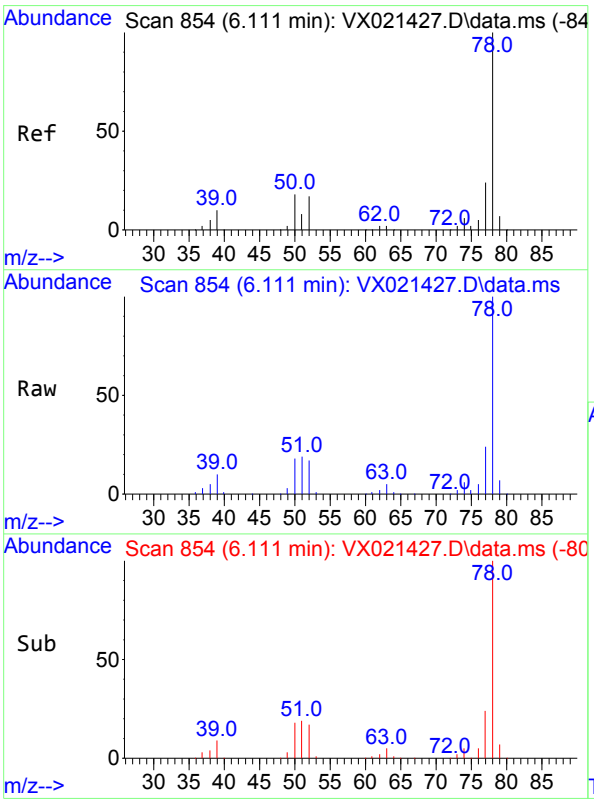


#39
Methylcyclohexane
Concen: 51.30 ug/l
RT: 7.435 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 83 Resp: 75819

Ion	Ratio	Lower	Upper
83	100		
55	83.8	58.9	88.3
98	46.7	38.1	57.1

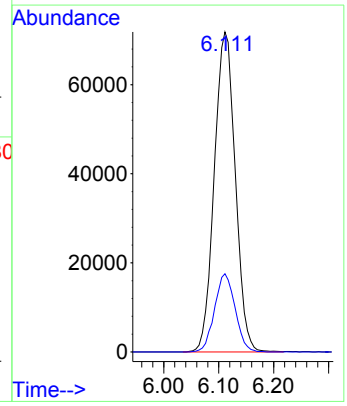




#40
Benzene
Concen: 51.88 ug/l
RT: 6.111 min Scan# 854
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

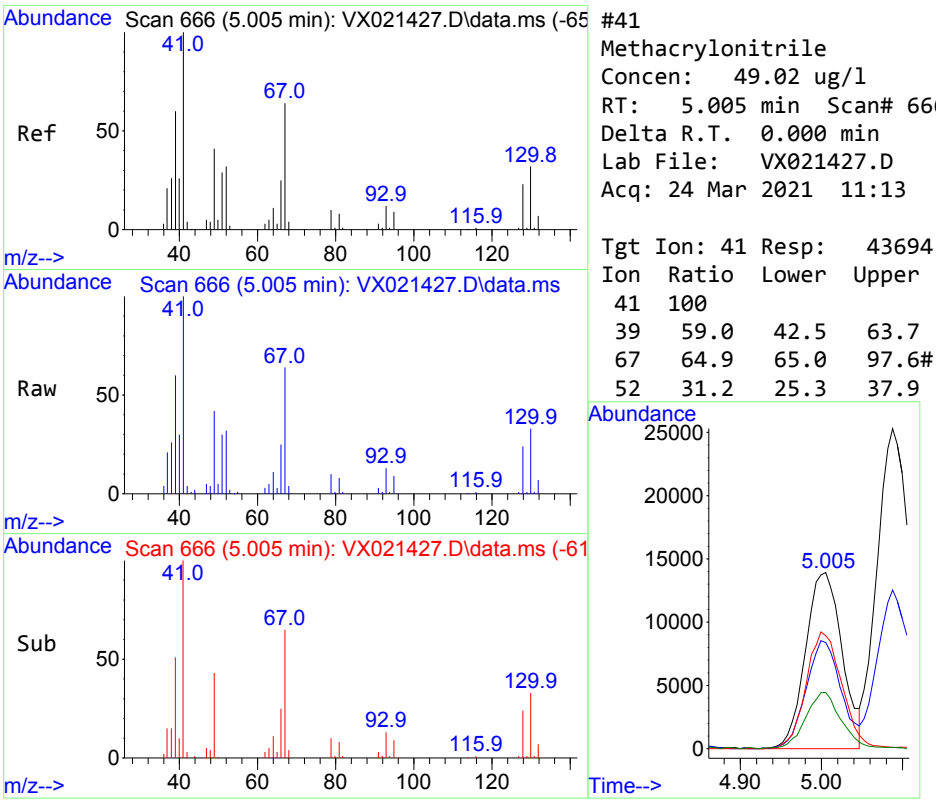
Tgt Ion: 78 Resp: 190627

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

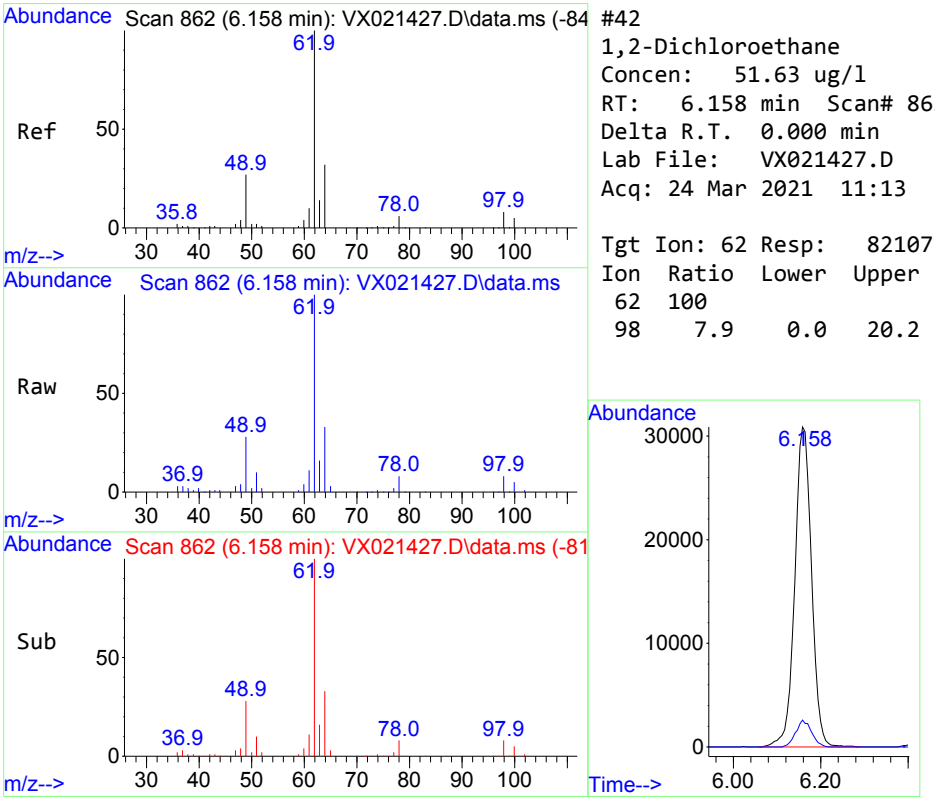
Manual Integrations APPROVED
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3/25/2021 9:49:31 AM



#41
Methacrylonitrile
Concen: 49.02 ug/l
RT: 5.005 min Scan# 666
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 41 Resp: 43694

Ion	Ratio	Lower	Upper
41	100		
39	59.0	42.5	63.7
67	64.9	65.0	97.6#
52	31.2	25.3	37.9



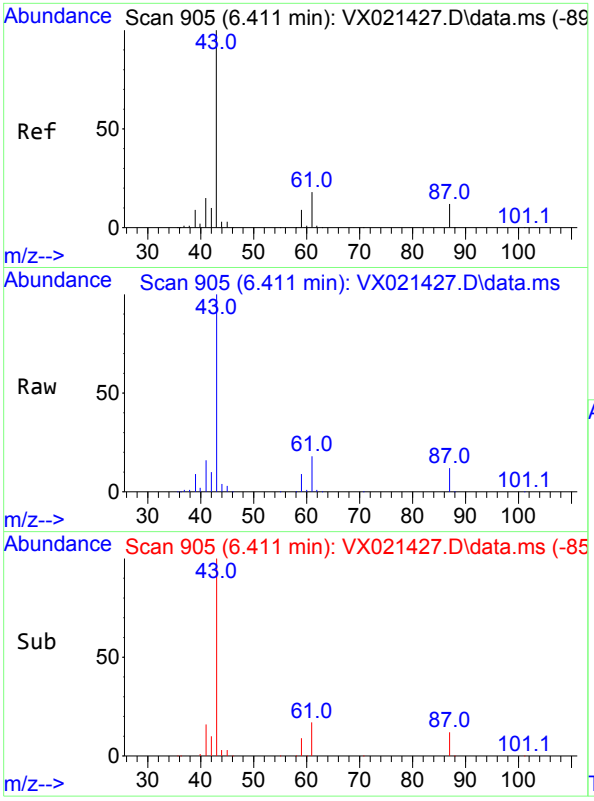
#42
1,2-Dichloroethane
Concen: 51.63 ug/l
RT: 6.158 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 62 Resp: 82107

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	20.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

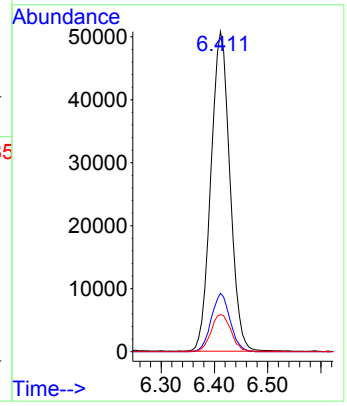
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

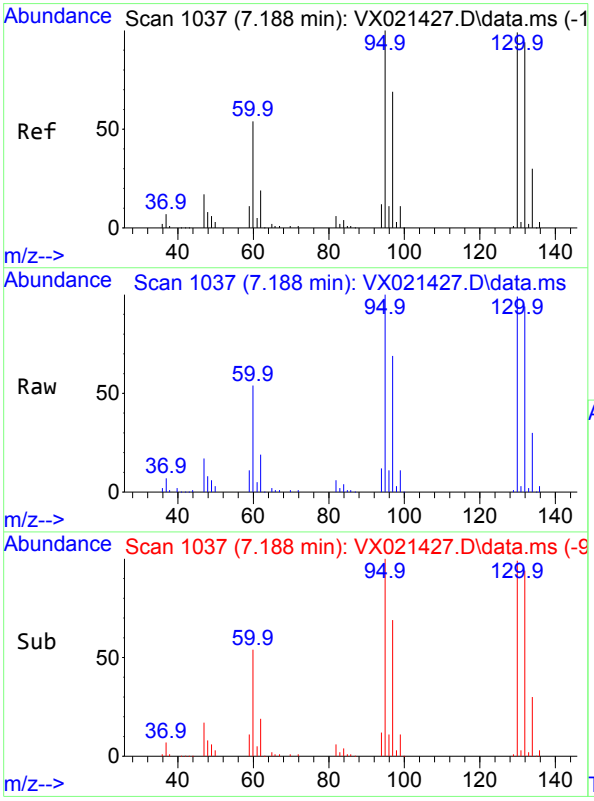


#43
Isopropyl Acetate
Concen: 49.82 ug/l
RT: 6.411 min Scan# 905
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 43 Resp: 125739

Ion	Ratio	Lower	Upper
43	100		
61	18.0	18.2	27.4#
87	12.2	12.5	18.7#

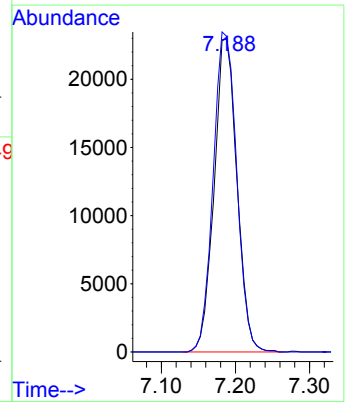




#44
Trichloroethene
Concen: 50.45 ug/l
RT: 7.188 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

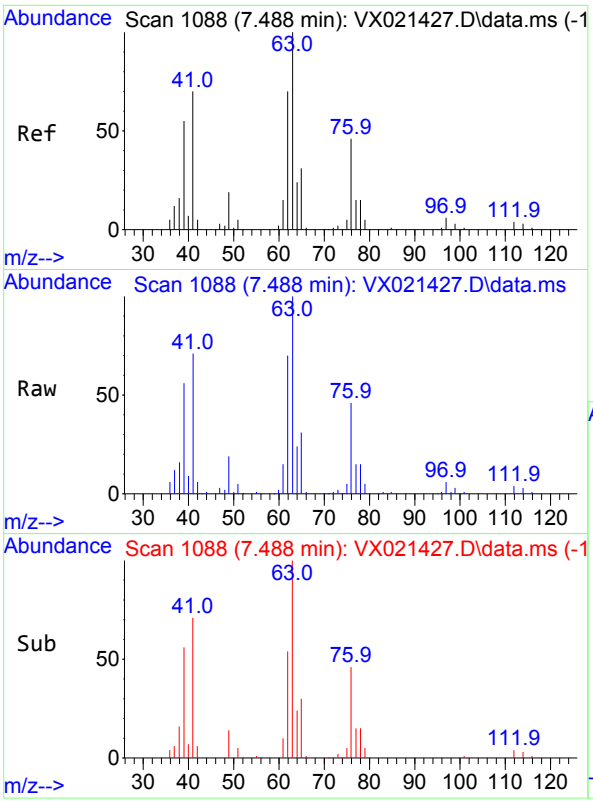
Tgt Ion:130 Resp: 49191

Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

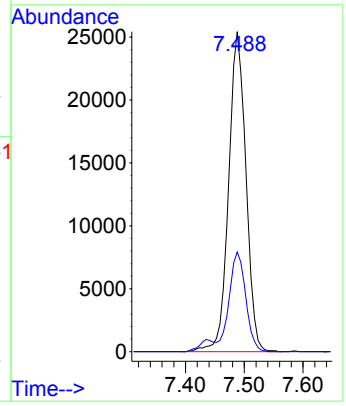
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

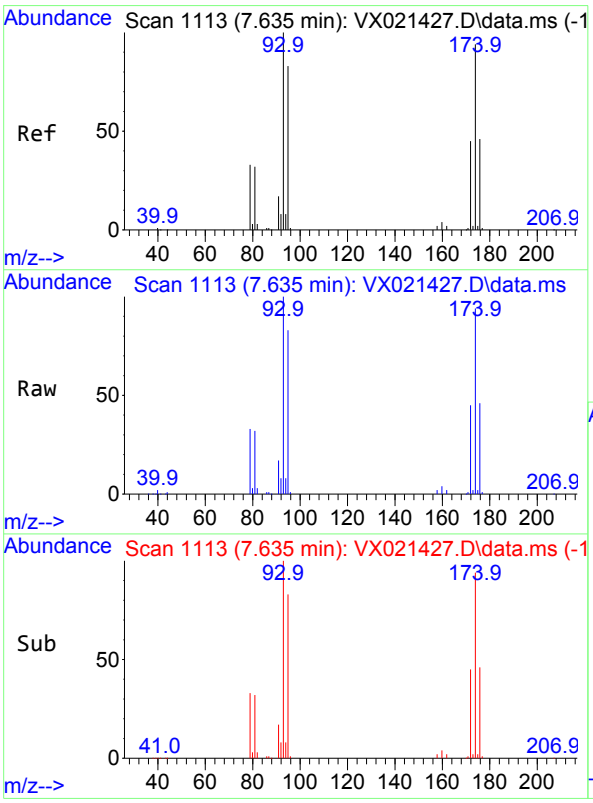


#45
1,2-Dichloropropane
Concen: 52.51 ug/l
RT: 7.488 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 63 Resp: 51949

Ion	Ratio	Lower	Upper
63	100		
65	31.2	25.7	38.5

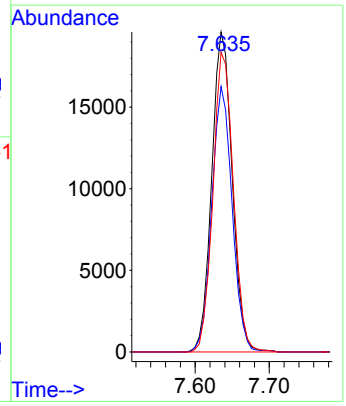




#46
Dibromomethane
Concen: 51.84 ug/l
RT: 7.635 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

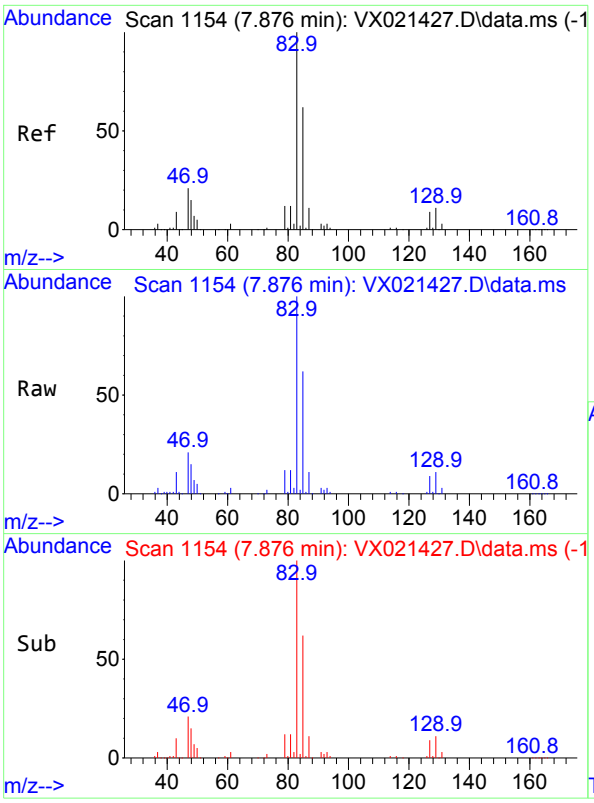
Tgt Ion: 93 Resp: 37639

Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.8	100.2
174	93.3	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

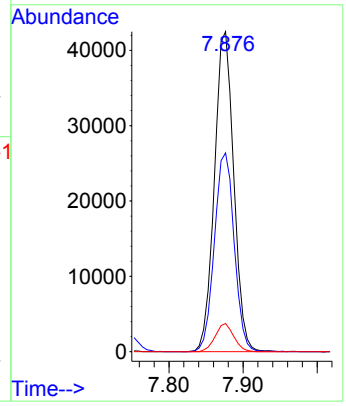
Manual Integrations APPROVED
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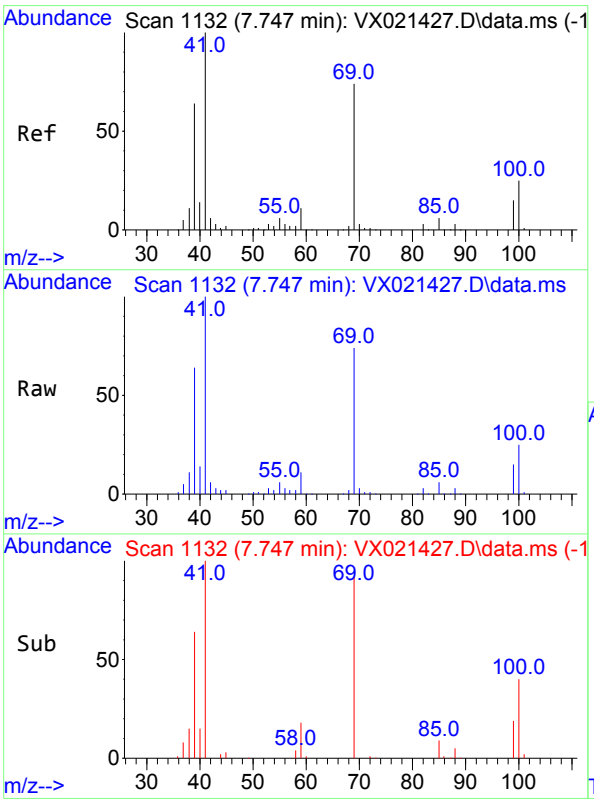


#47
Bromodichloromethane
Concen: 53.05 ug/l
RT: 7.876 min Scan# 1154
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 83 Resp: 77074

Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.4	77.0
127	8.8	6.8	10.2

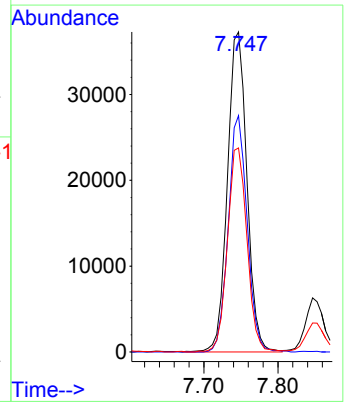




#48
Methyl methacrylate
Concen: 50.52 ug/l
RT: 7.747 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

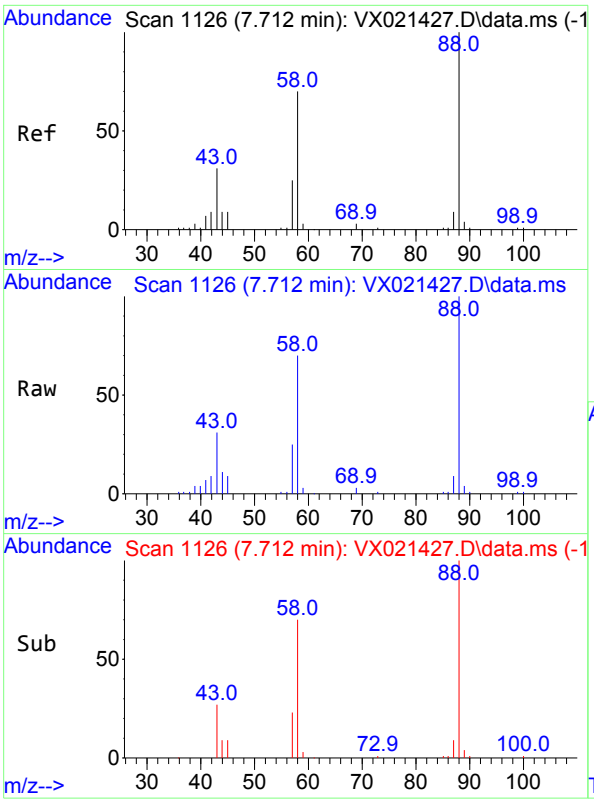
Tgt Ion: 41 Resp: 68025

Ion	Ratio	Lower	Upper
41	100		
69	71.9	76.0	114.0#
39	64.1	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

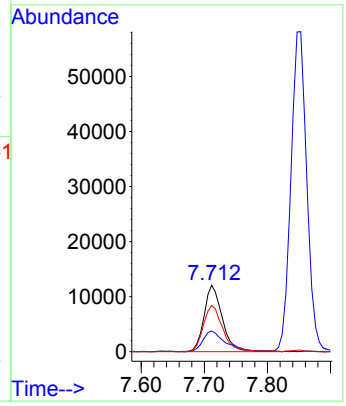
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

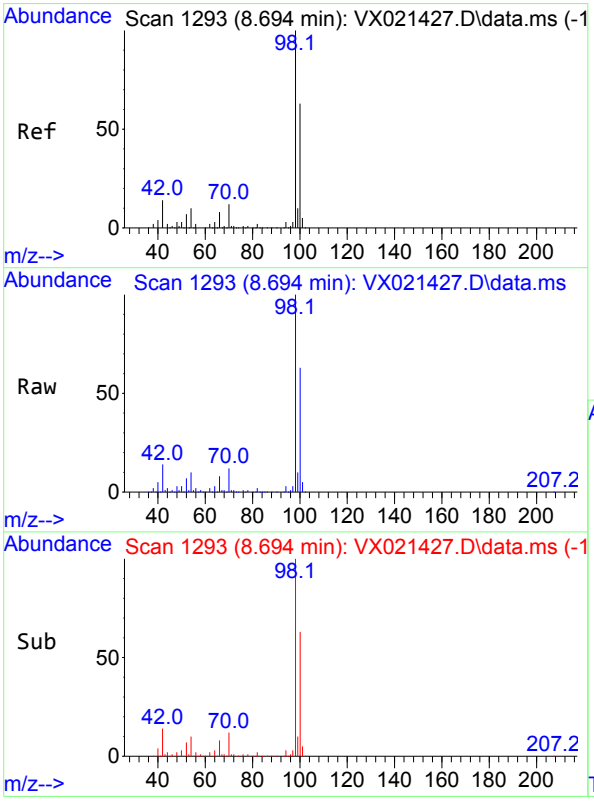


#49
1,4-Dioxane
Concen: 962.58 ug/l
RT: 7.712 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 88 Resp: 24037

Ion	Ratio	Lower	Upper
88	100		
43	39.5	23.2	34.8#
58	73.9	55.0	82.4

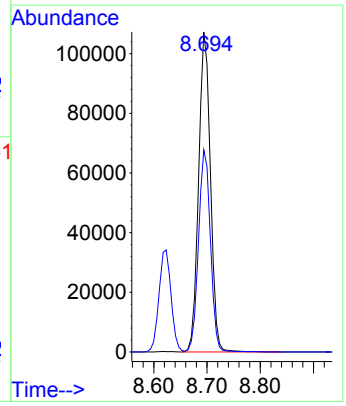




#50
Toluene-d8
Concen: 50.01 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

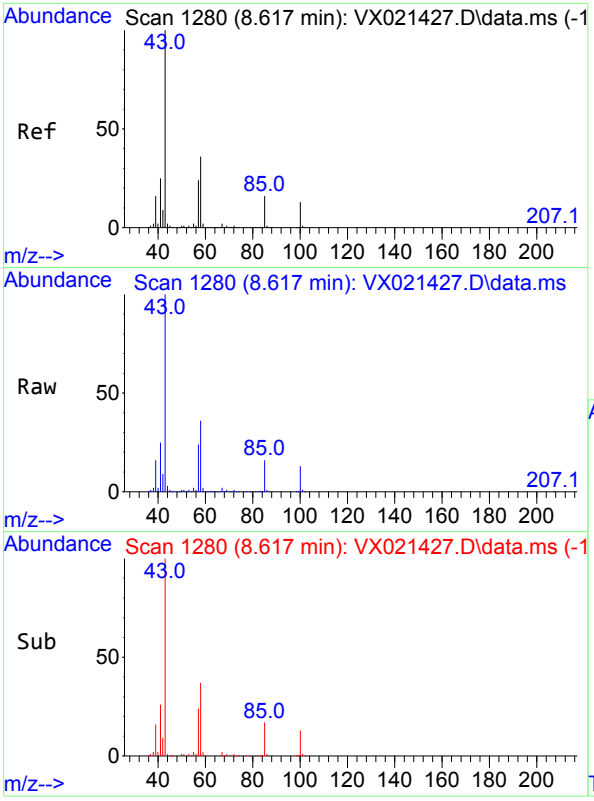
Tgt Ion: 98 Resp: 164814

Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

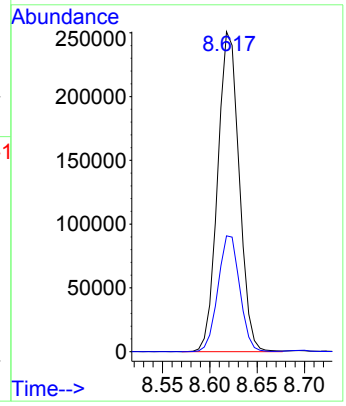
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

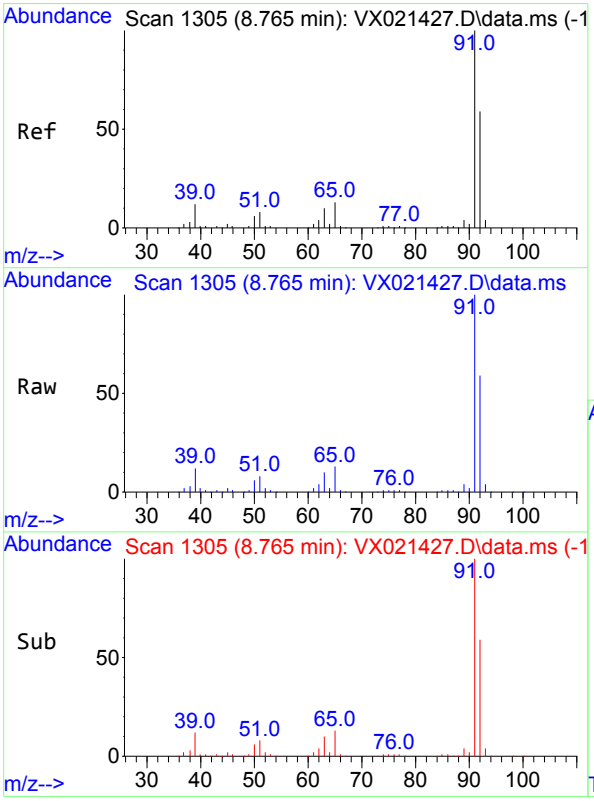


#51
4-Methyl-2-Pentanone
Concen: 267.13 ug/l
RT: 8.617 min Scan# 1280
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 43 Resp: 396108

Ion	Ratio	Lower	Upper
43	100		
58	36.7	35.4	53.0

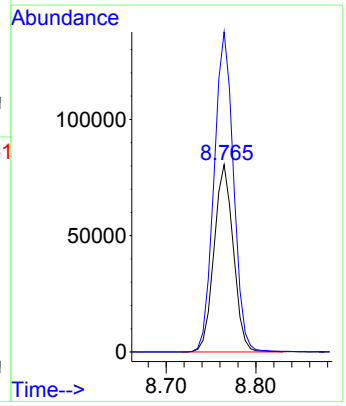




#52
Toluene
Concen: 52.86 ug/l
RT: 8.765 min Scan# 1305
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

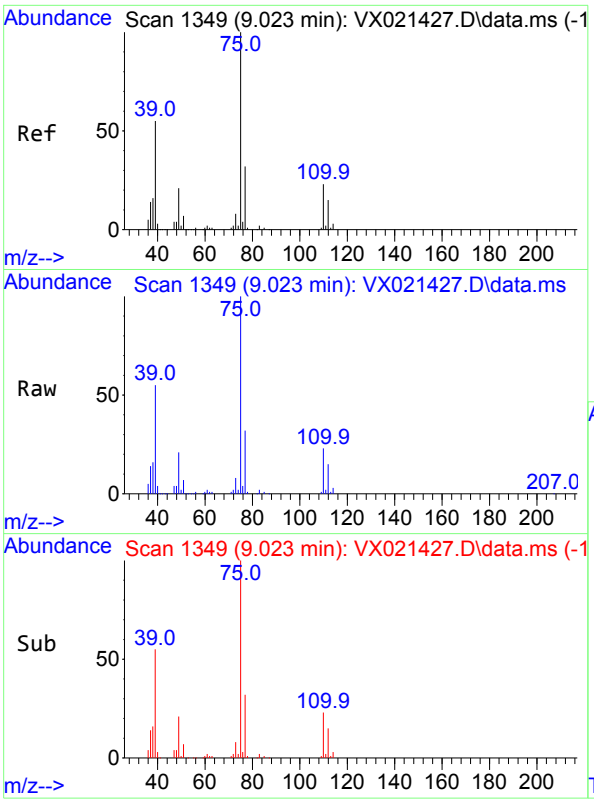
Tgt Ion: 92 Resp: 120203

Ion	Ratio	Lower	Upper
92	100		
91	173.0	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

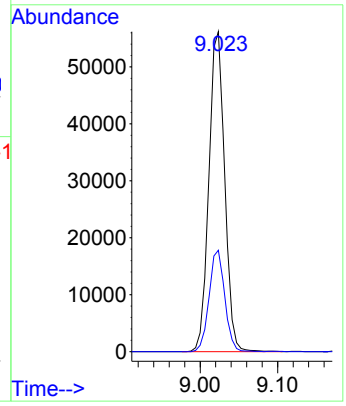
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

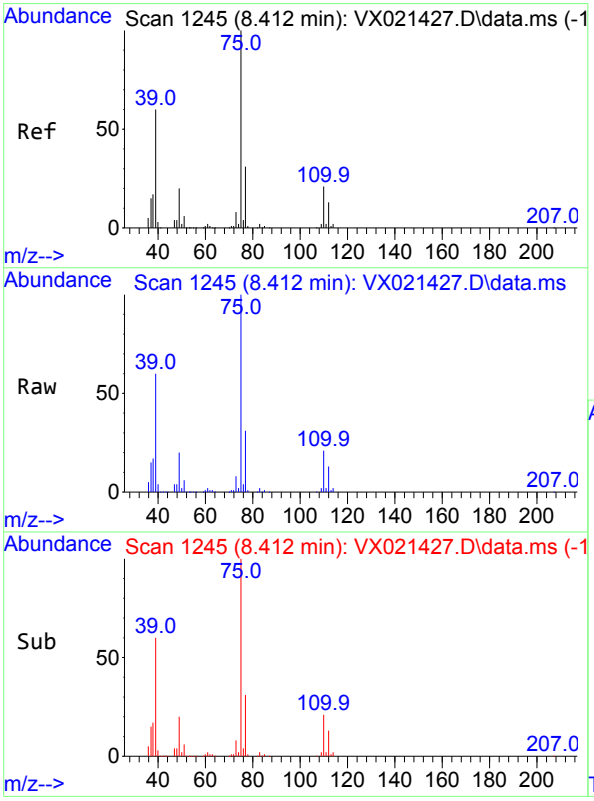


#53
t-1,3-Dichloropropene
Concen: 51.73 ug/l
RT: 9.023 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 75 Resp: 79493

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.9	37.3

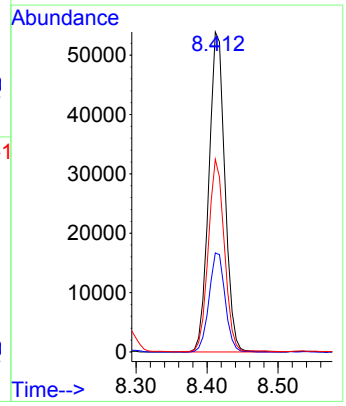




#54
cis-1,3-Dichloropropene
Concen: 51.83 ug/l
RT: 8.412 min Scan# 1245
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

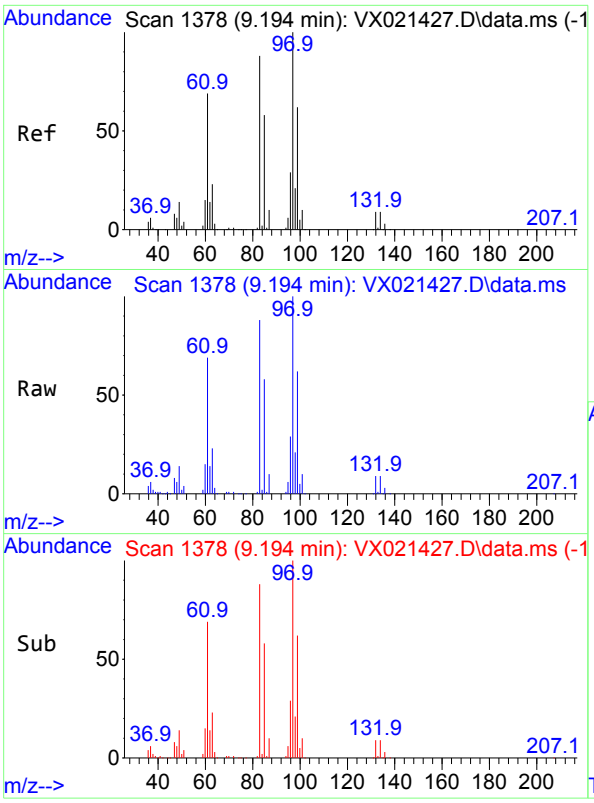
Tgt Ion: 75 Resp: 84789

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.7	38.5
39	60.1	35.1	52.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

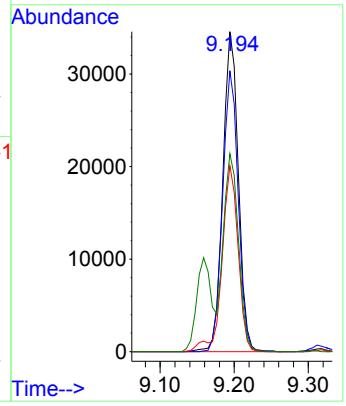
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

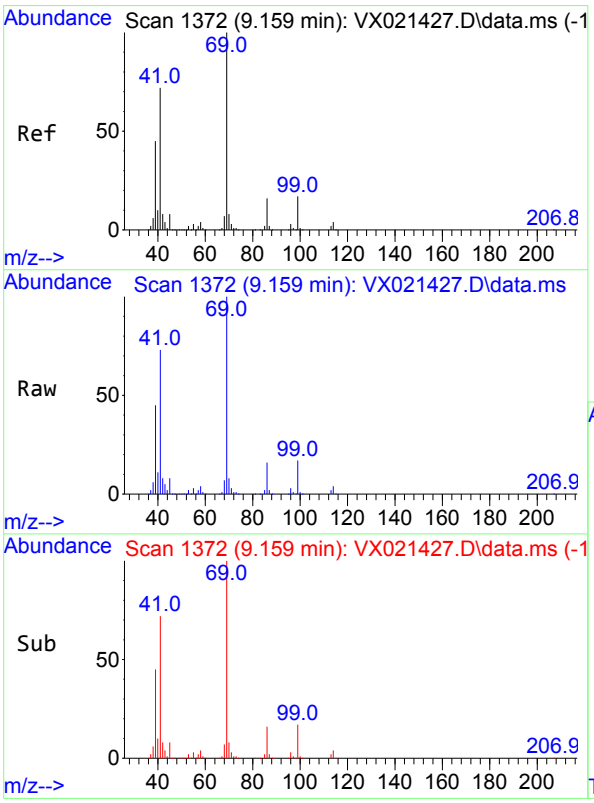


#55
1,1,2-Trichloroethane
Concen: 53.78 ug/l
RT: 9.194 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 97 Resp: 50252

Ion	Ratio	Lower	Upper
97	100		
83	87.8	69.3	103.9
85	58.1	44.3	66.5
99	61.9	50.3	75.5

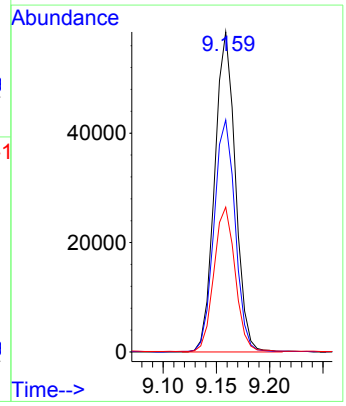




#56
Ethyl methacrylate
Concen: 52.83 ug/l
RT: 9.159 min Scan# 1372
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

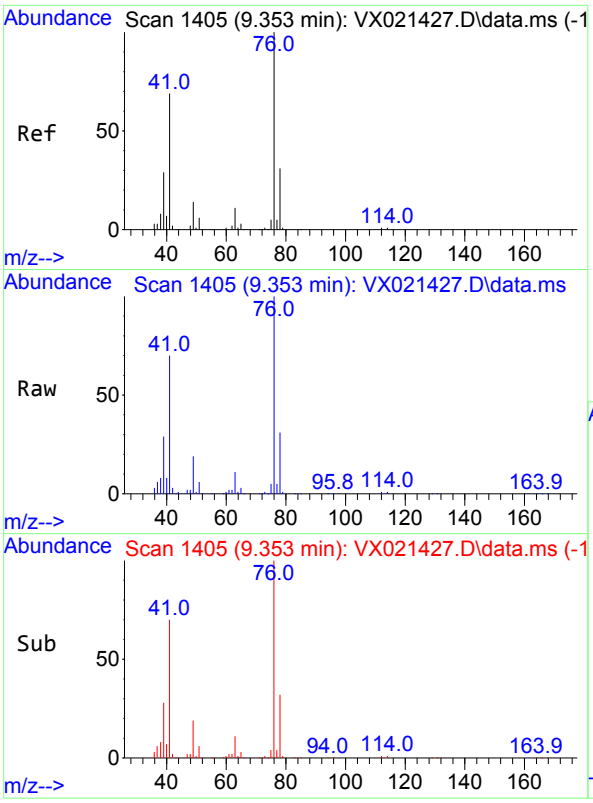
Tgt Ion: 69 Resp: 79045

Ion	Ratio	Lower	Upper
69	100		
41	74.7	46.8	70.2#
39	46.3	24.7	37.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

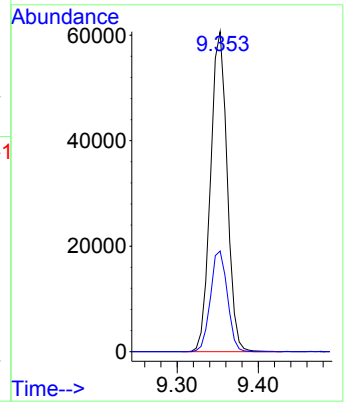
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

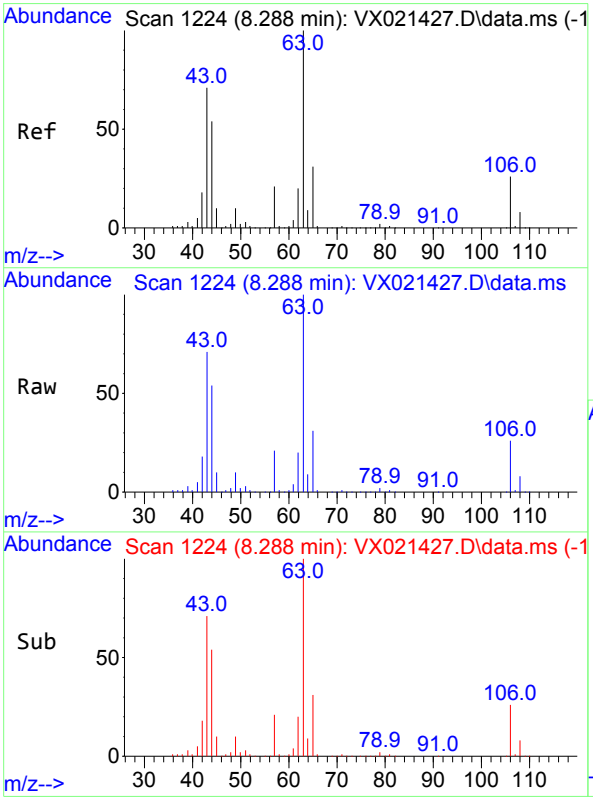


#57
1,3-Dichloropropane
Concen: 52.89 ug/l
RT: 9.353 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 76 Resp: 86056

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.2

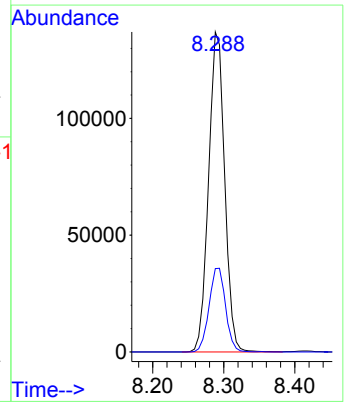




#58
2-Chloroethyl Vinyl ether
Concen: 262.06 ug/l
RT: 8.288 min Scan# 1224
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

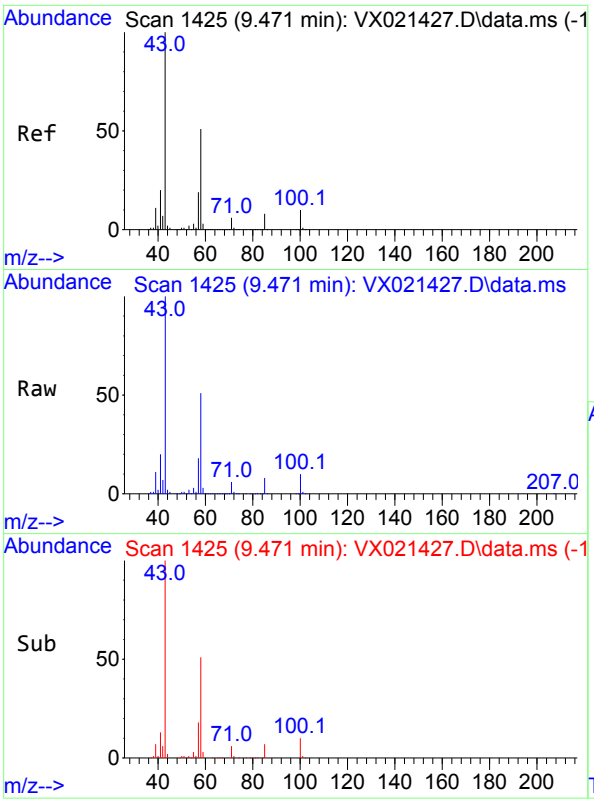
Tgt Ion: 63 Resp: 215967

Ion	Ratio	Lower	Upper
63	100		
106	26.8	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

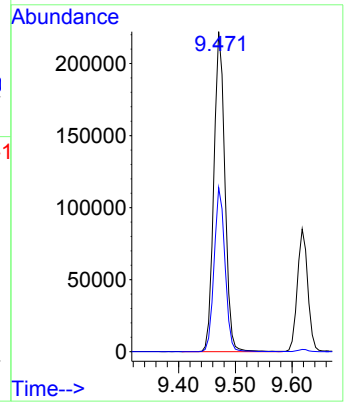
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

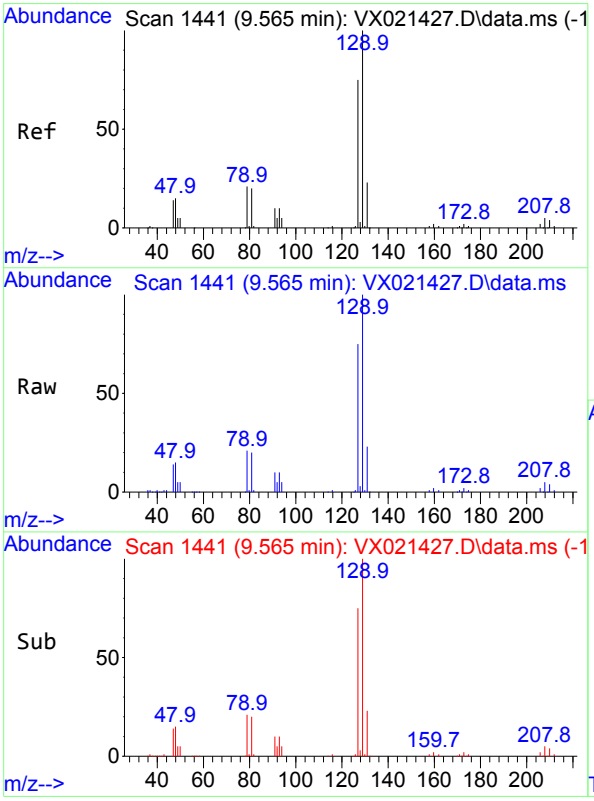


#59
2-Hexanone
Concen: 268.51 ug/l
RT: 9.471 min Scan# 1425
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 43 Resp: 297877

Ion	Ratio	Lower	Upper
43	100		
58	50.6	30.9	92.8

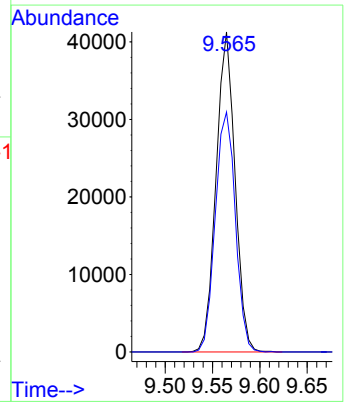




#60
Dibromochloromethane
Concen: 54.04 ug/l
RT: 9.565 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

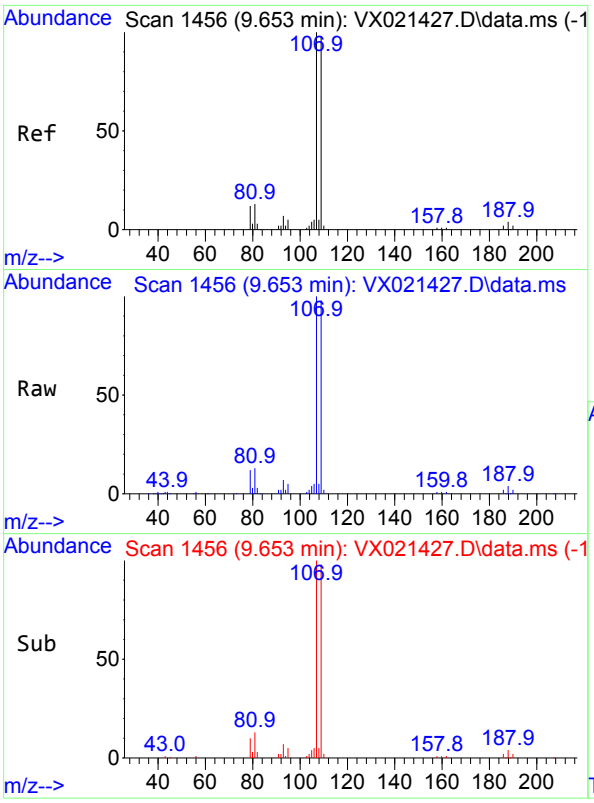
Tgt Ion:129 Resp: 57413

Ion	Ratio	Lower	Upper
129	100		
127	79.5	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

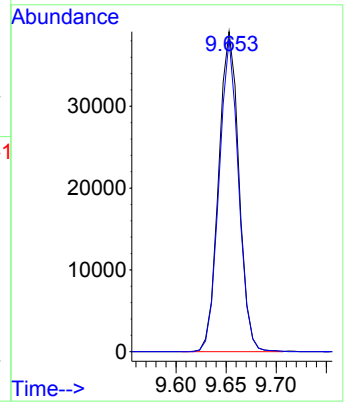
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

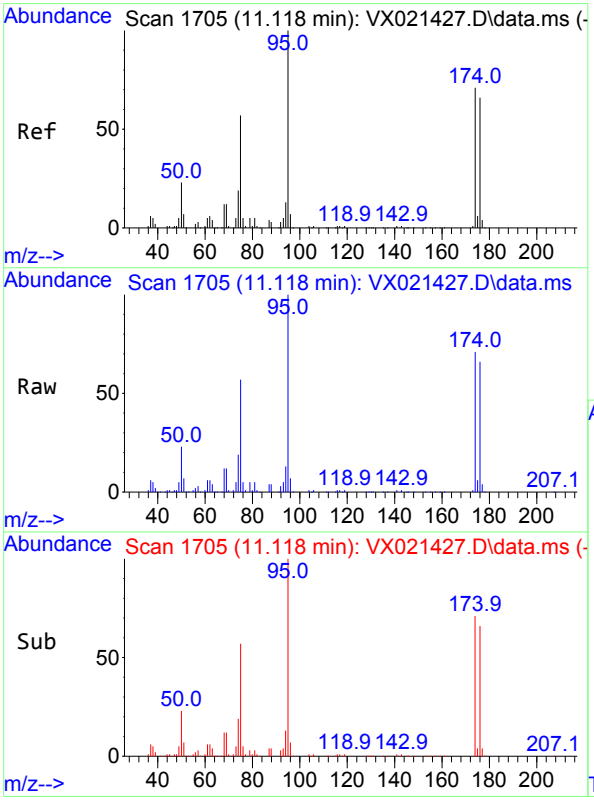


#61
1,2-Dibromoethane
Concen: 53.30 ug/l
RT: 9.653 min Scan# 1456
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:107 Resp: 54783

Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.8	113.6

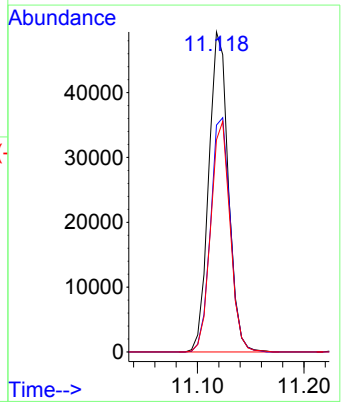




#62
4-Bromofluorobenzene
Concen: 49.55 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

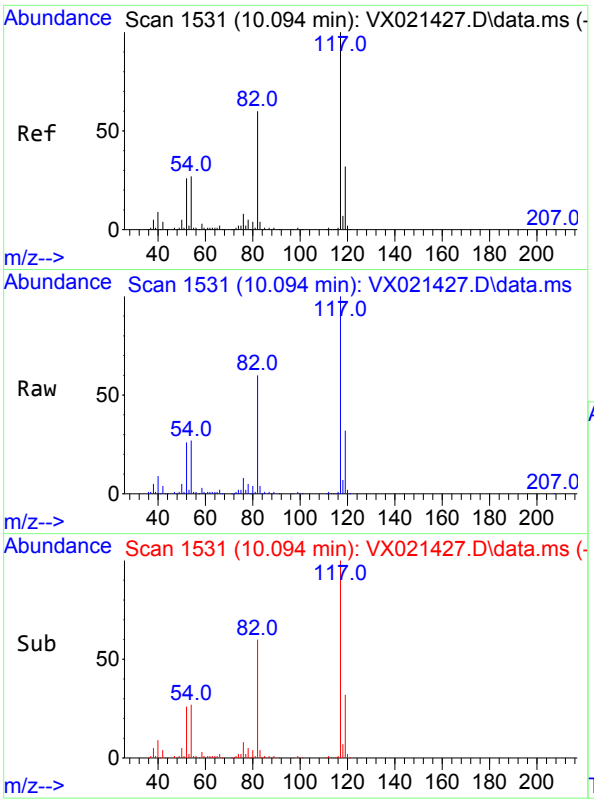
Tgt Ion: 95 Resp: 63095

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	154.6
176	71.1	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

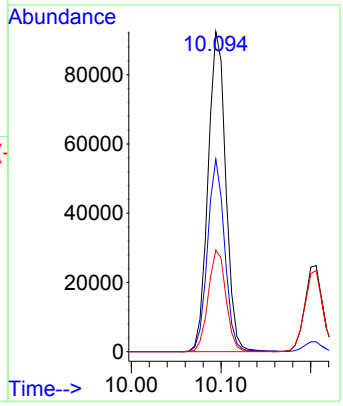
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

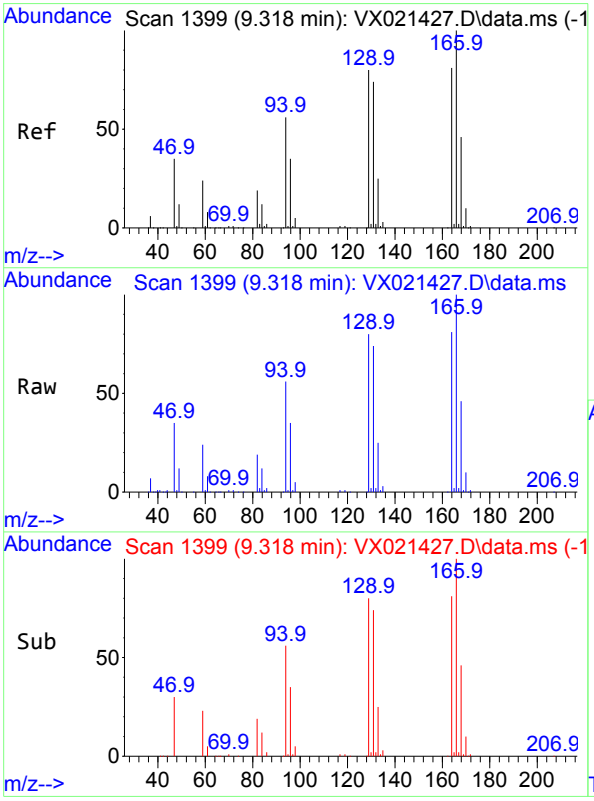


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:117 Resp: 126559

Ion	Ratio	Lower	Upper
117	100		
82	60.1	47.4	71.2
119	31.7	26.6	39.8

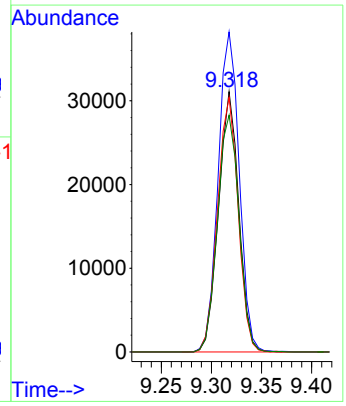




#64
Tetrachloroethene
Concen: 46.64 ug/l
RT: 9.318 min Scan# 1399
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

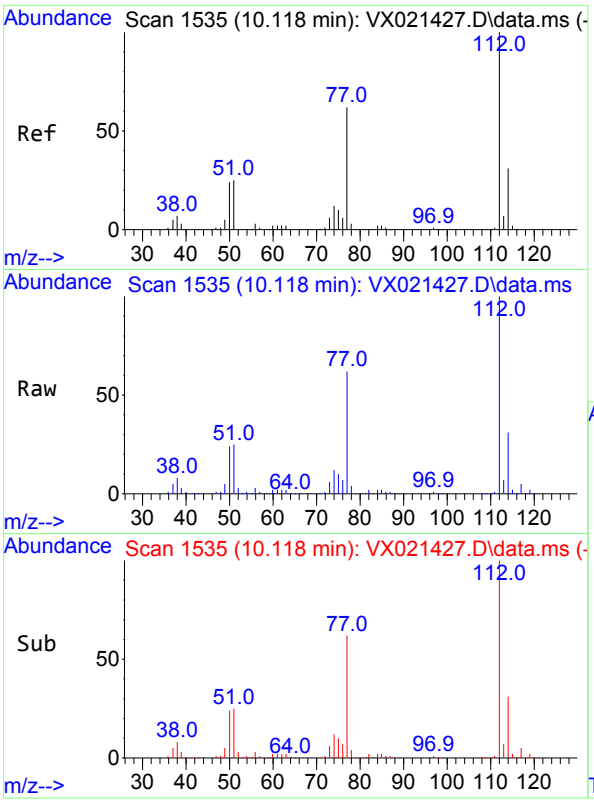
Tgt Ion:164 Resp: 43656

Ion	Ratio	Lower	Upper
164	100		
166	122.9	103.4	155.2
129	97.8	70.8	106.2
131	90.9	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

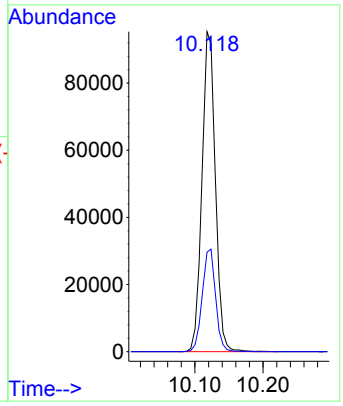
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

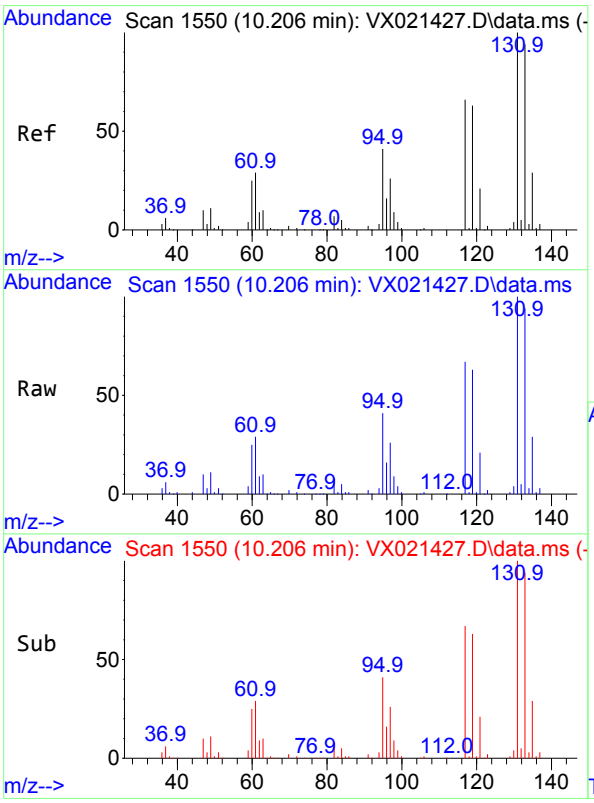


#65
Chlorobenzene
Concen: 50.00 ug/l
RT: 10.118 min Scan# 1535
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:112 Resp: 130192

Ion	Ratio	Lower	Upper
112	100		
114	31.1	25.8	38.6

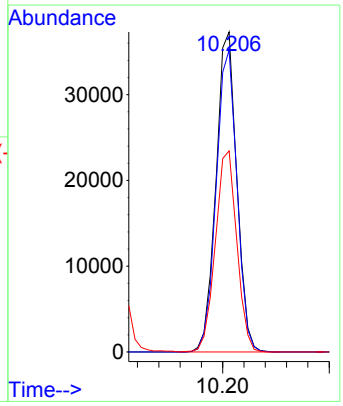




#66
1,1,1,2-Tetrachloroethane
Concen: 52.03 ug/l
RT: 10.206 min Scan# 1550
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

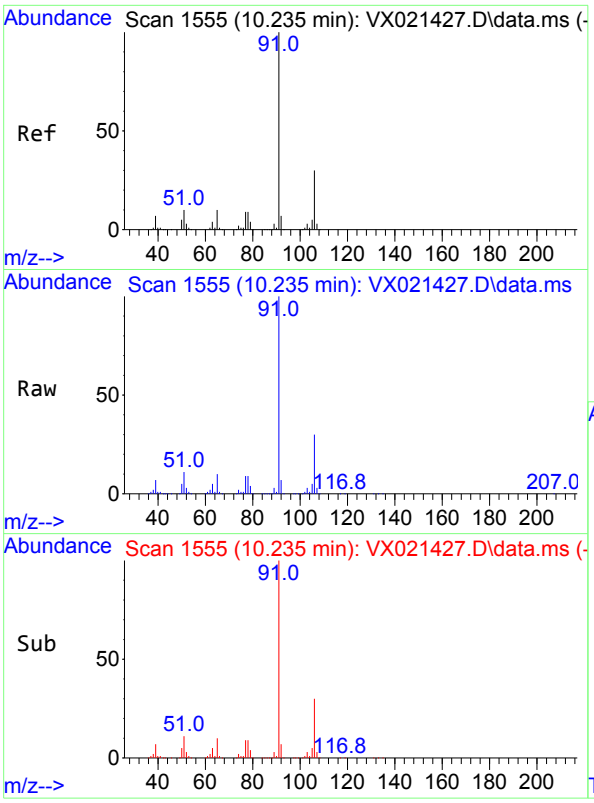
Tgt Ion:131 Resp: 50474

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.7	143.1
119	64.8	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

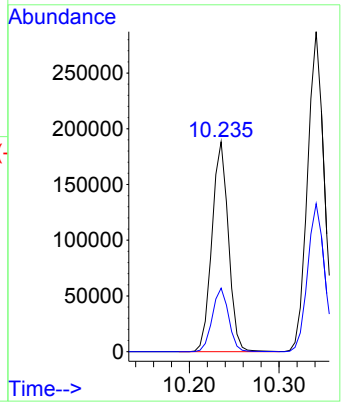
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

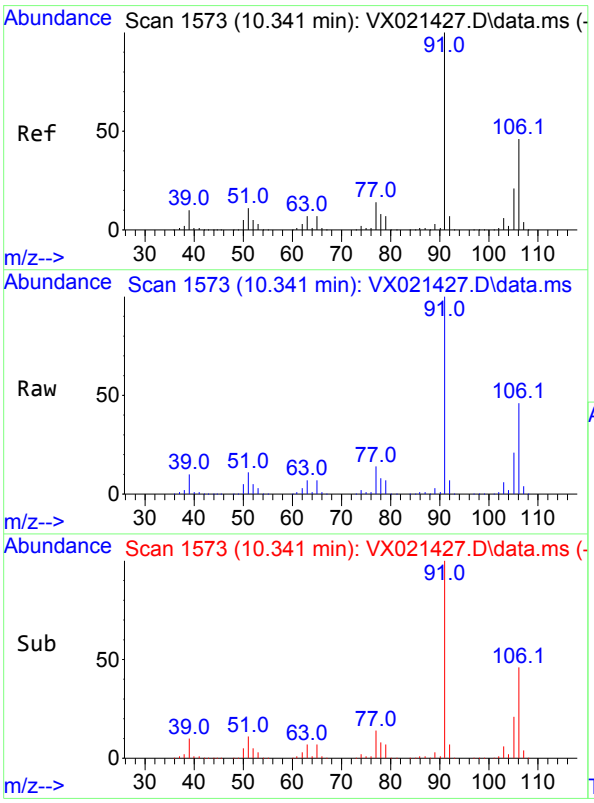


#67
Ethyl Benzene
Concen: 50.14 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 91 Resp: 240420

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.6	37.0

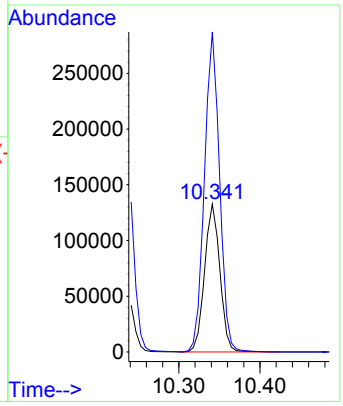




#68
m/p-Xylenes
Concen: 101.34 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

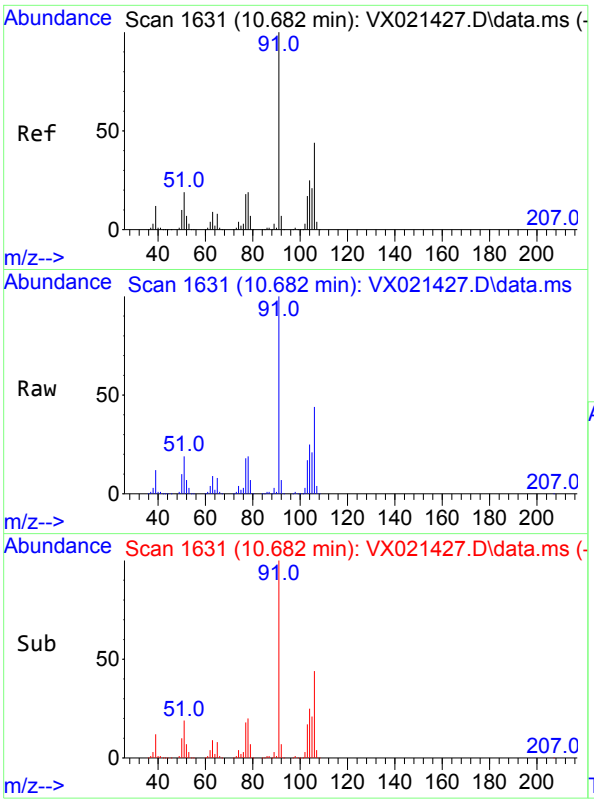
Tgt Ion:106 Resp: 173676

Ion	Ratio	Lower	Upper
106	100		
91	213.7	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

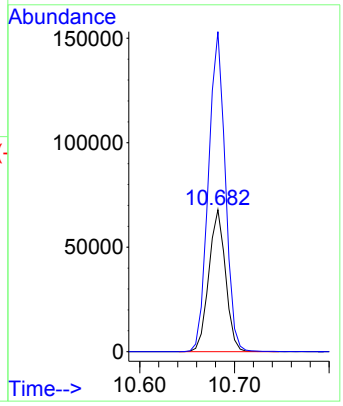
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

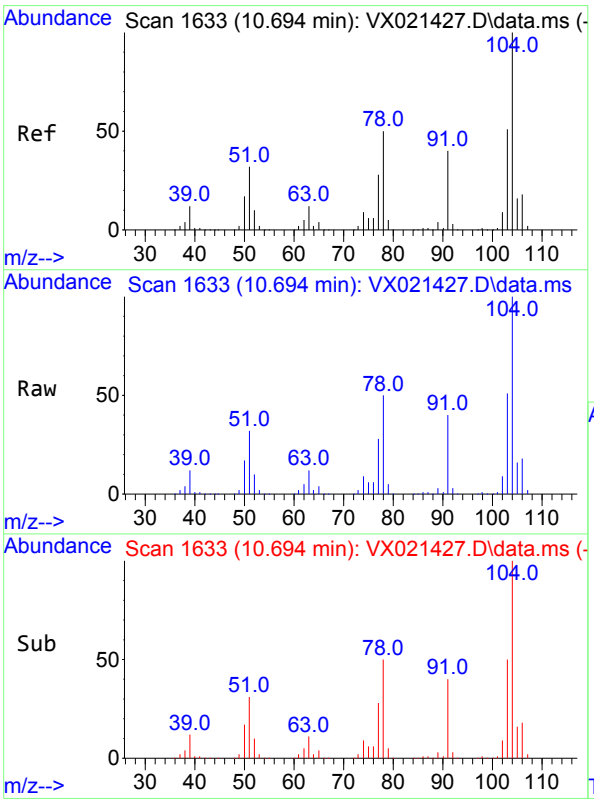


#69
o-Xylene
Concen: 50.16 ug/l
RT: 10.682 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:106 Resp: 83473

Ion	Ratio	Lower	Upper
106	100		
91	226.5	108.1	324.2

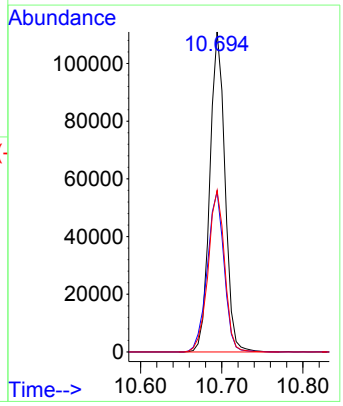




#70
Styrene
Concen: 51.17 ug/l
RT: 10.694 min Scan# 1633
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

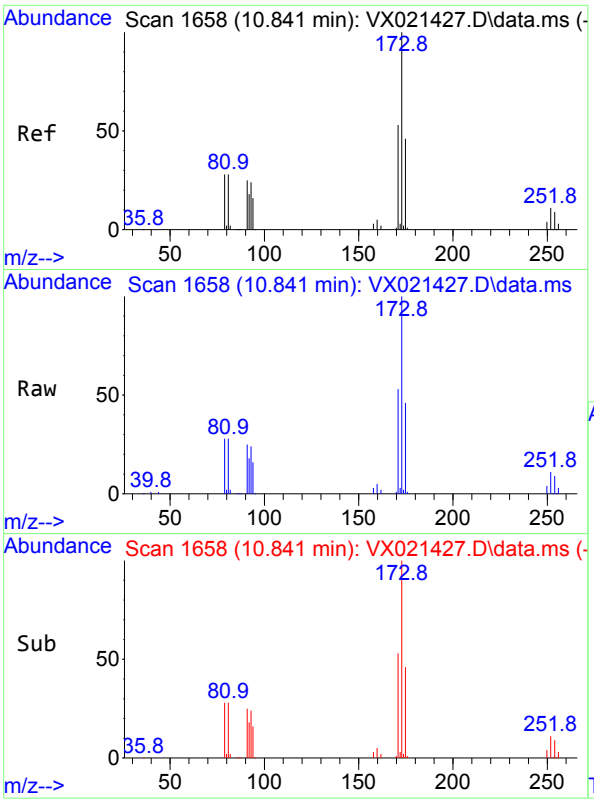
Tgt Ion:104 Resp: 143435

Ion	Ratio	Lower	Upper
104	100		
78	55.6	40.0	60.0
103	55.0	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

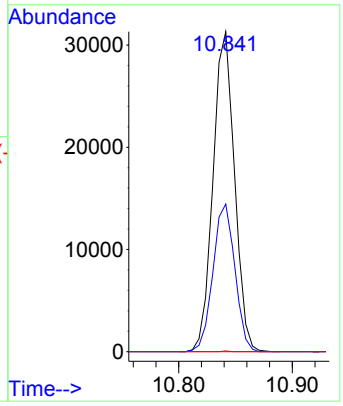
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

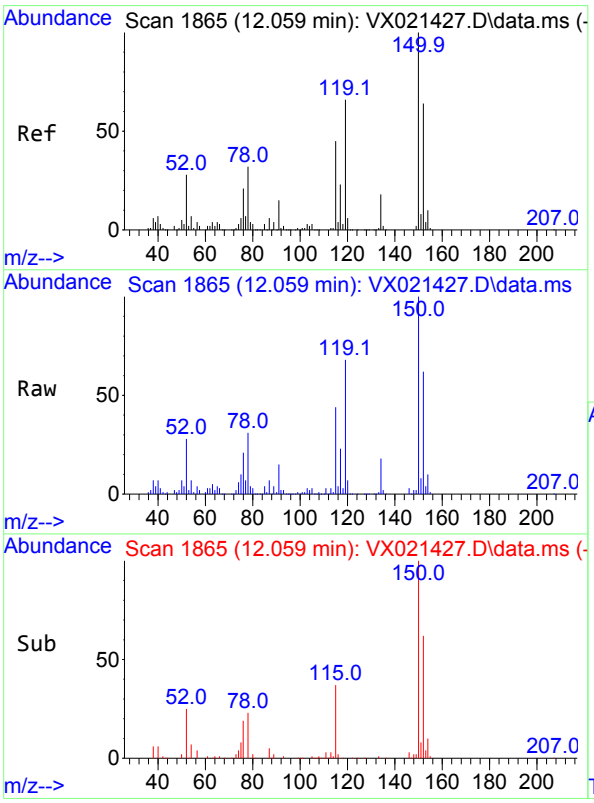


#71
Bromoform
Concen: 52.66 ug/l
RT: 10.841 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:173 Resp: 41165

Ion	Ratio	Lower	Upper
173	100		
175	47.1	23.9	71.8
254	0.1	0.1	0.1#

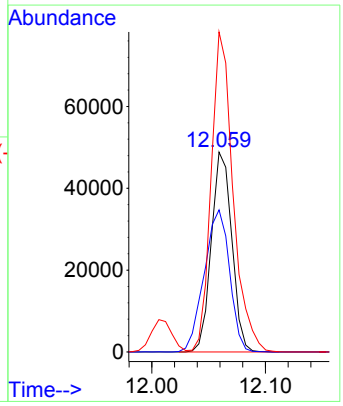




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

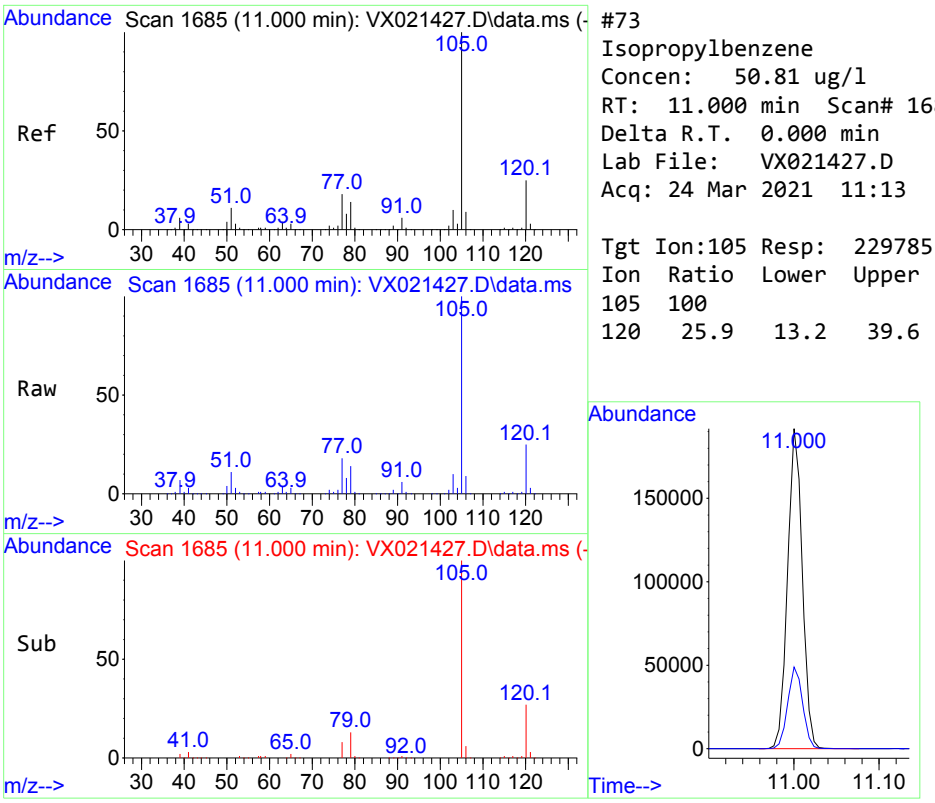
Tgt Ion:152 Resp: 61170

Ion	Ratio	Lower	Upper
152	100		
115	87.9	41.1	123.3
150	171.2	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

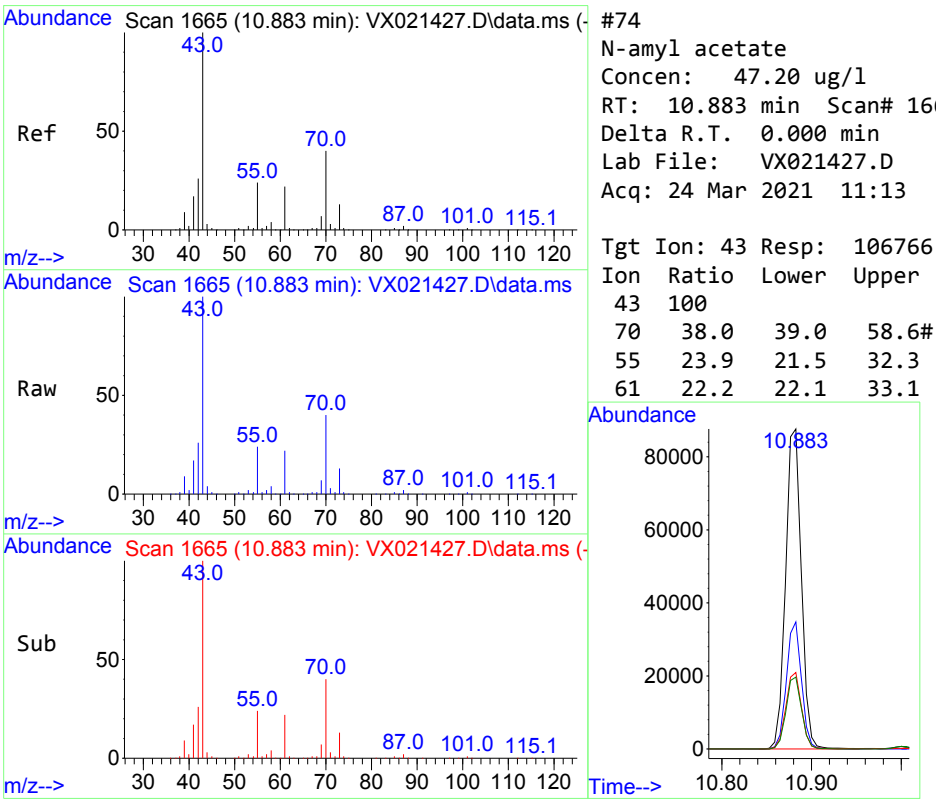
Manual Integrations APPROVED
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3/25/2021 9:49:31 AM



#73
Isopropylbenzene
Concen: 50.81 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:105 Resp: 229785

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.2	39.6



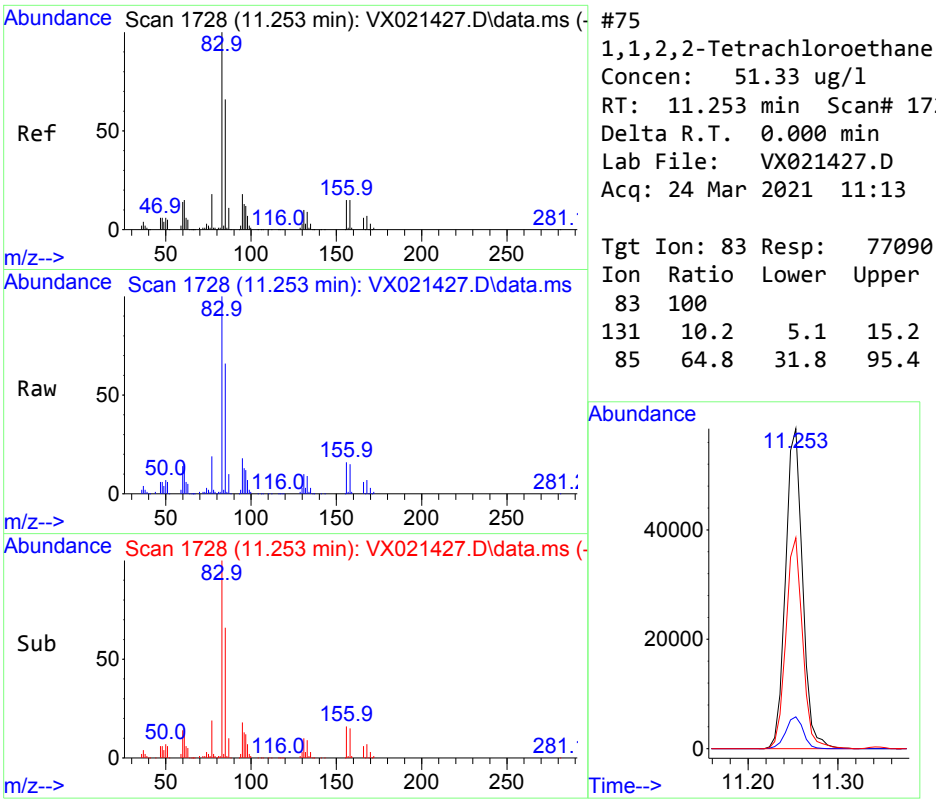
#74
N-amyl acetate
Concen: 47.20 ug/l
RT: 10.883 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 43 Resp: 106766

Ion	Ratio	Lower	Upper
43	100		
70	38.0	39.0	58.6#
55	23.9	21.5	32.3
61	22.2	22.1	33.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

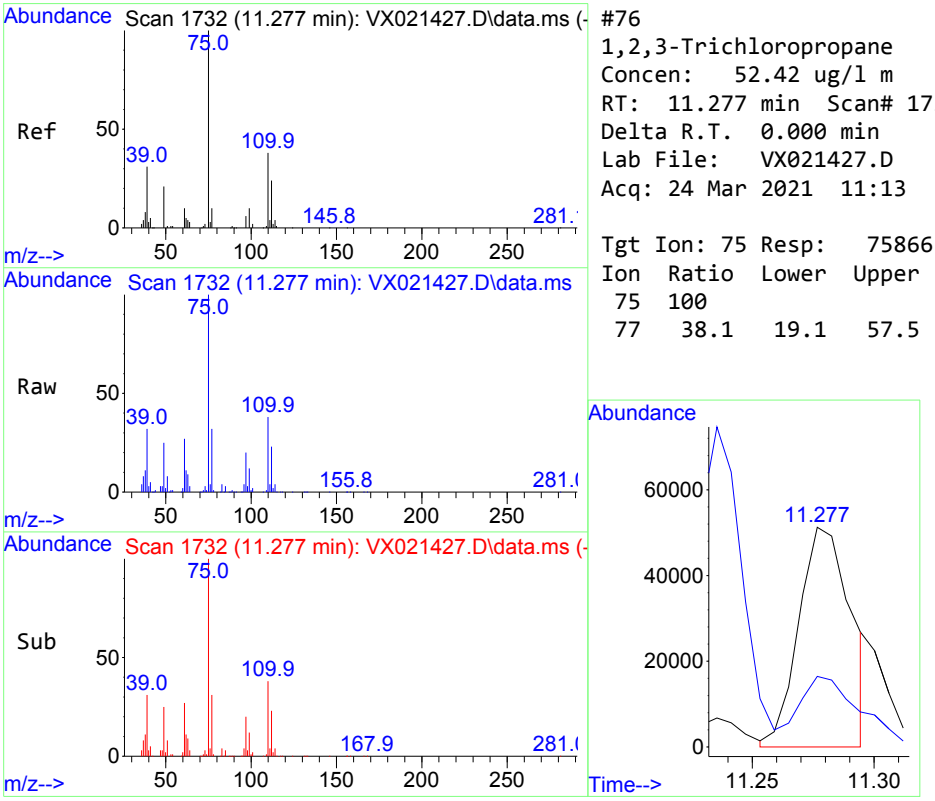
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM



#75
1,1,2,2-Tetrachloroethane
Concen: 51.33 ug/l
RT: 11.253 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 83 Resp: 77090

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.2
85	64.8	31.8	95.4



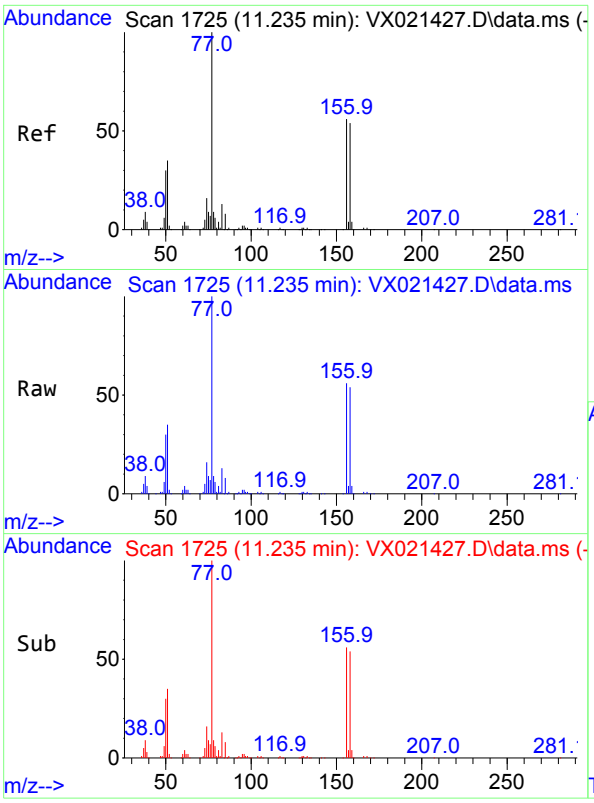
#76
1,2,3-Trichloropropane
Concen: 52.42 ug/l m
RT: 11.277 min Scan# 1732
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 75 Resp: 75866

Ion	Ratio	Lower	Upper
75	100		
77	38.1	19.1	57.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

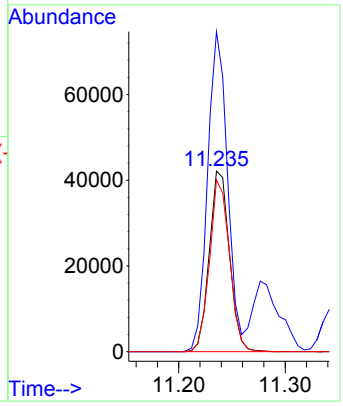
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

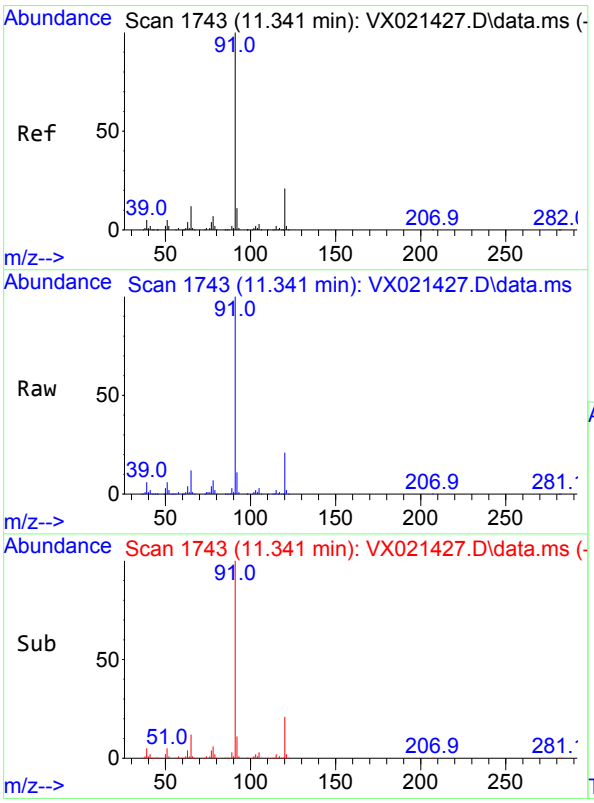


#77
Bromobenzene
Concen: 51.38 ug/l
RT: 11.235 min Scan# 1725
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:156 Resp: 55344

Ion	Ratio	Lower	Upper
156	100		
77	174.5	82.8	248.6
158	94.2	49.1	147.4

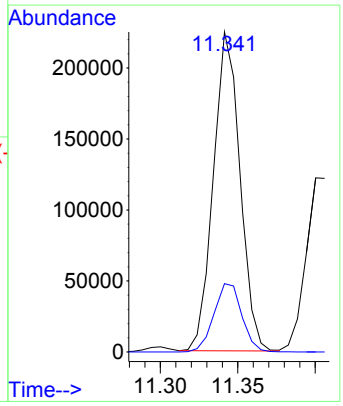




#78
n-propylbenzene
Concen: 50.76 ug/l
RT: 11.341 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

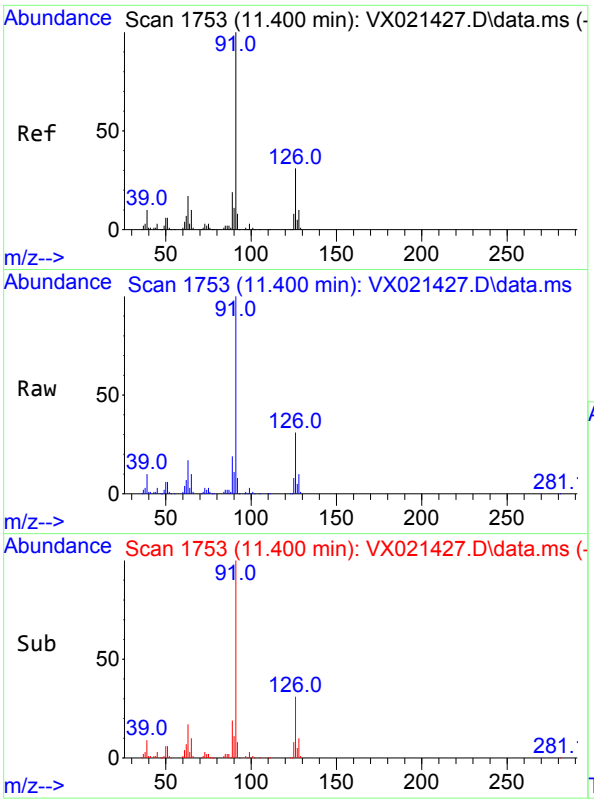
Tgt Ion: 91 Resp: 268161

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

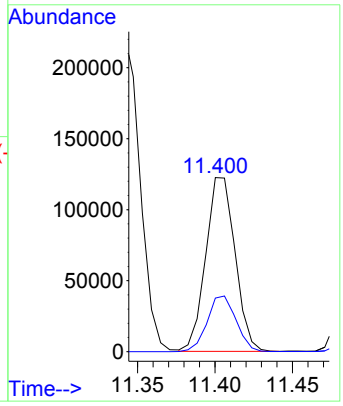
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

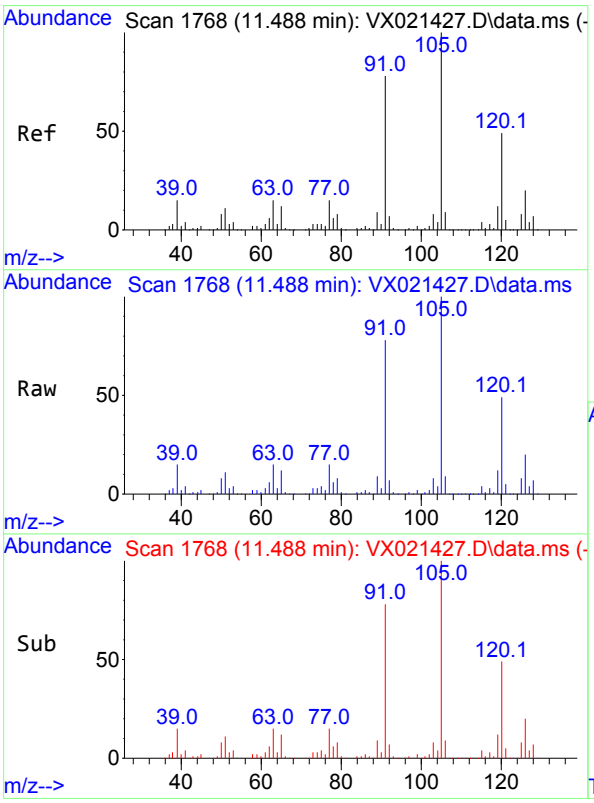


#79
2-Chlorotoluene
Concen: 50.26 ug/l
RT: 11.400 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 91 Resp: 161411

Ion	Ratio	Lower	Upper
91	100		
126	31.7	16.6	49.8

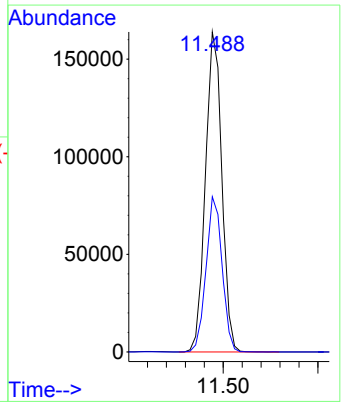




#80
1,3,5-Trimethylbenzene
Concen: 51.40 ug/l
RT: 11.488 min Scan# 1768
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

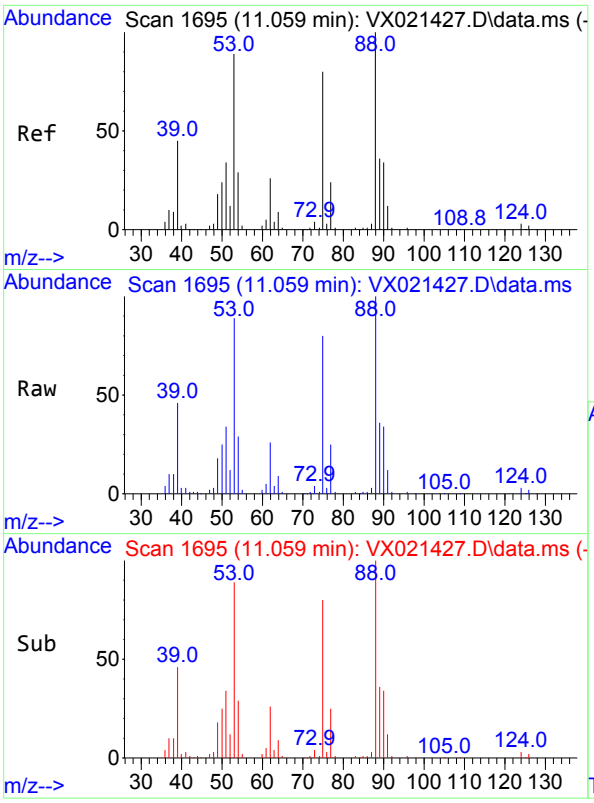
Tgt Ion:105 Resp: 196451

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

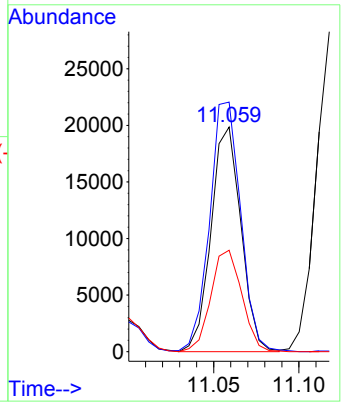
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

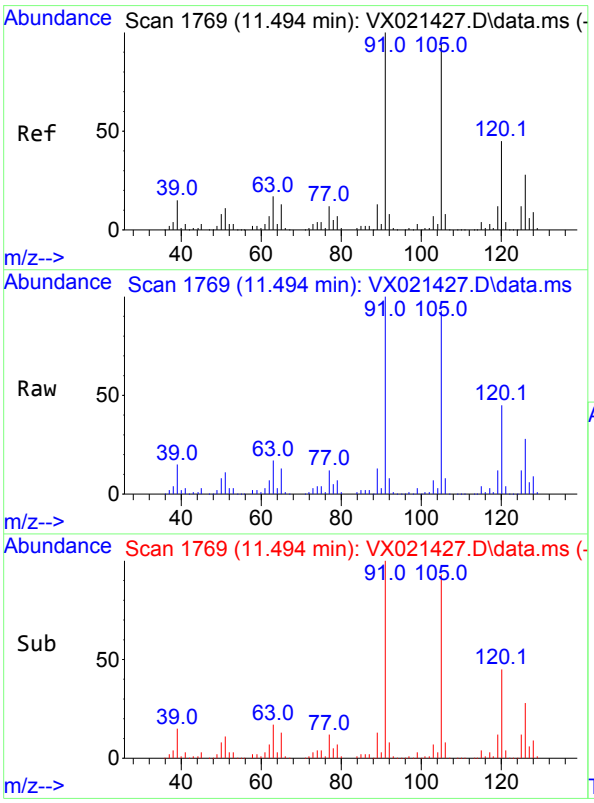


#81
trans-1,4-Dichloro-2-butene
Concen: 47.39 ug/l
RT: 11.059 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 75 Resp: 24311

Ion	Ratio	Lower	Upper
75	100		
53	115.4	74.5	111.7#
89	46.7	37.9	56.9

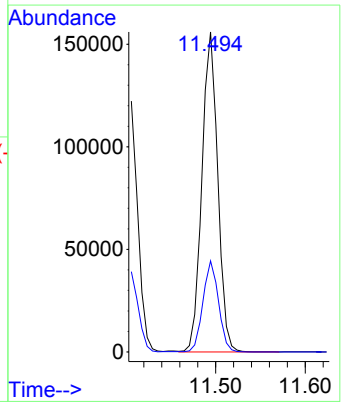




#82
4-Chlorotoluene
Concen: 50.54 ug/l
RT: 11.494 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

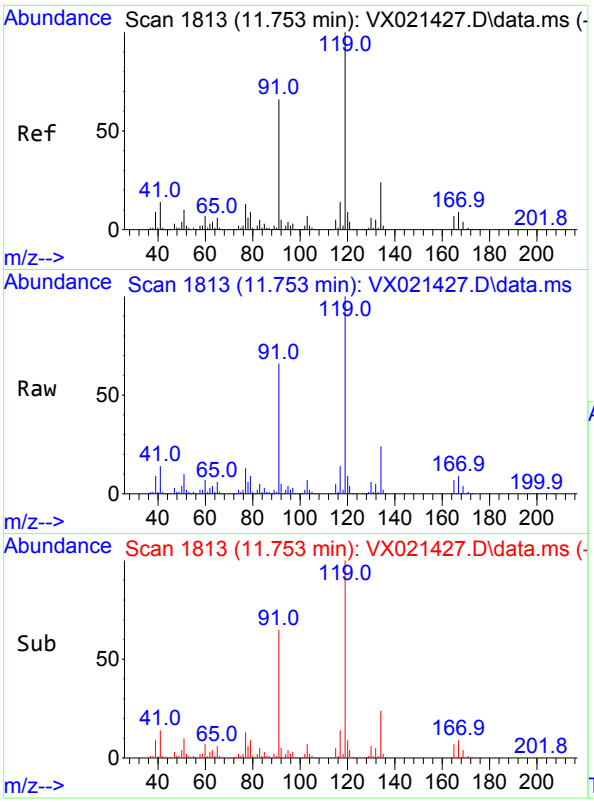
Tgt Ion: 91 Resp: 191248

Ion	Ratio	Lower	Upper
91	100		
126	28.0	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

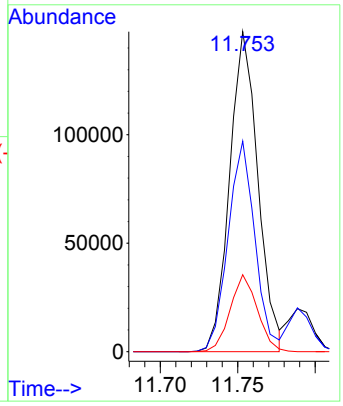
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

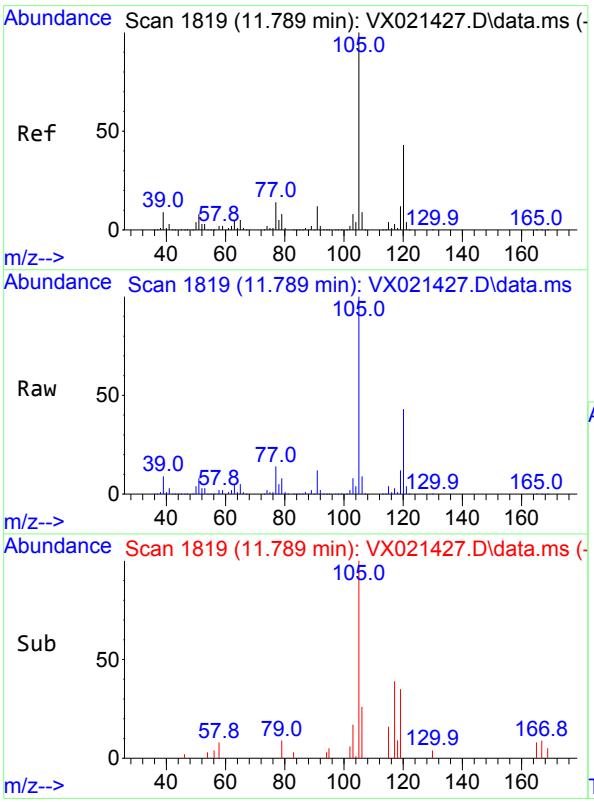


#83
tert-Butylbenzene
Concen: 51.34 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:119 Resp: 187402

Ion	Ratio	Lower	Upper
119	100		
91	62.7	27.9	83.7
134	23.1	11.3	33.9

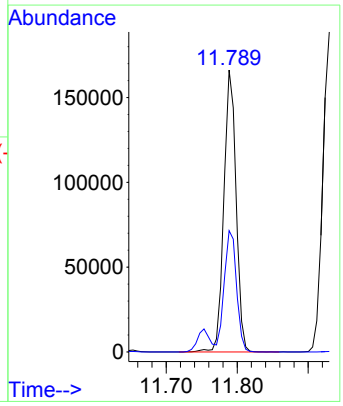




#84
1,2,4-Trimethylbenzene
Concen: 50.77 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

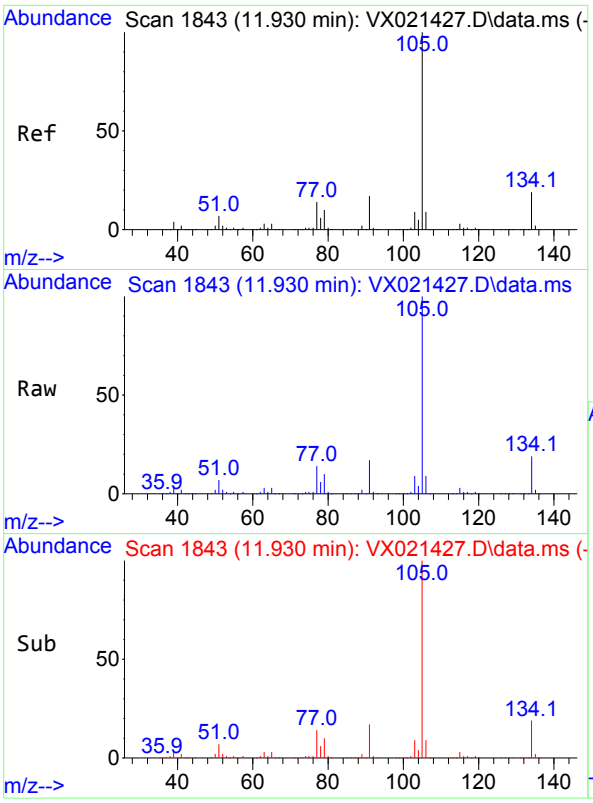
Tgt Ion:105 Resp: 197261

Ion	Ratio	Lower	Upper
105	100		
120	43.3	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

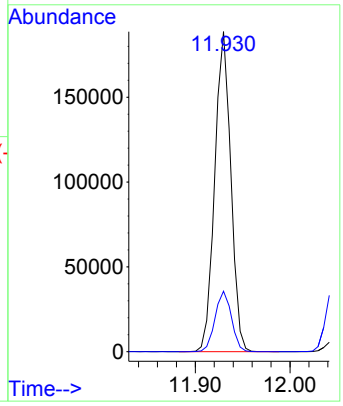
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

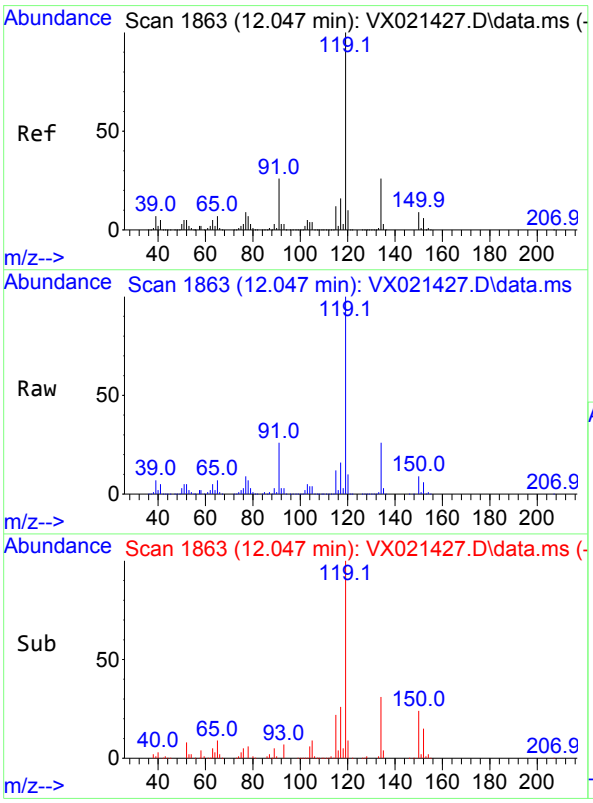


#85
sec-Butylbenzene
Concen: 51.60 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:105 Resp: 222152

Ion	Ratio	Lower	Upper
105	100		
134	19.3	10.0	29.8

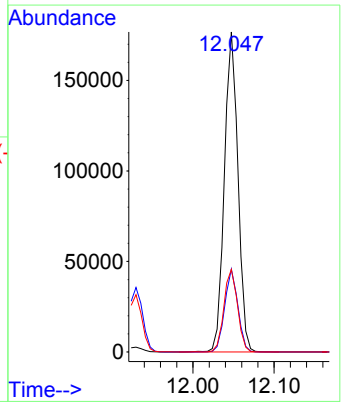




#86
p-Isopropyltoluene
Concen: 52.27 ug/l
RT: 12.047 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

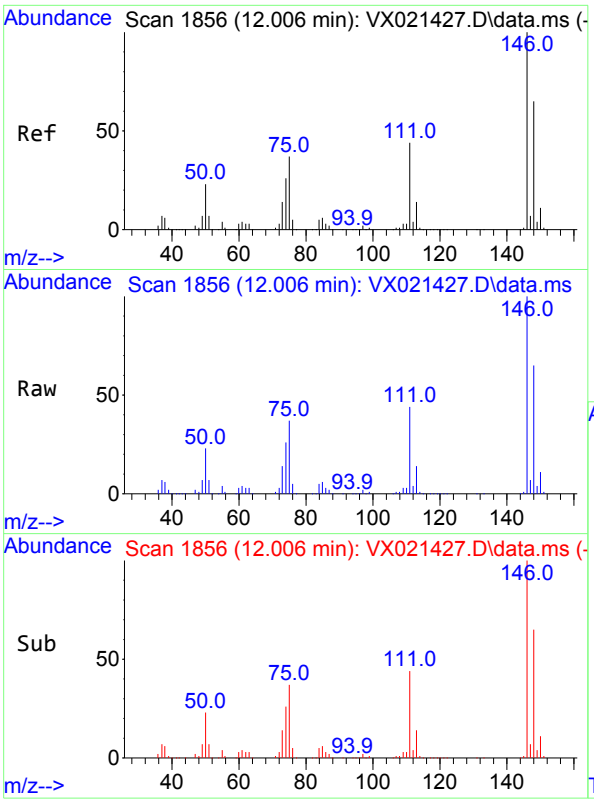
Tgt Ion:119 Resp: 205948

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.9	38.7
91	25.8	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

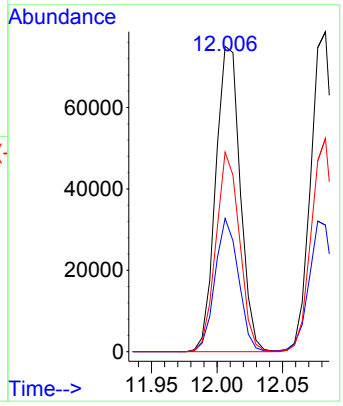
Manual Integrations APPROVED
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3/25/2021 9:49:31 AM

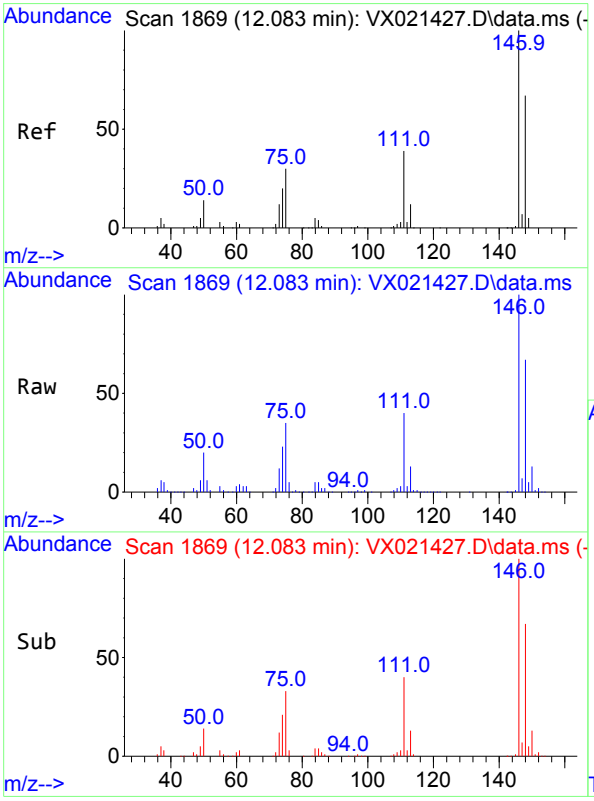


#87
1,3-Dichlorobenzene
Concen: 49.75 ug/l
RT: 12.006 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:146 Resp: 97547

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.2	60.5
148	62.8	31.9	95.7

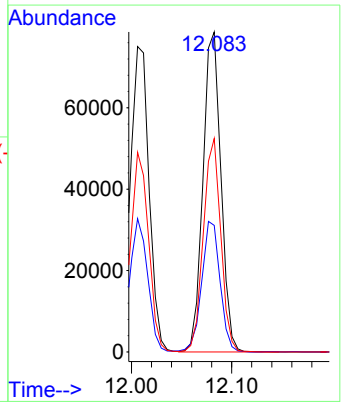




#88
1,4-Dichlorobenzene
Concen: 49.23 ug/l
RT: 12.083 min Scan# 1869
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

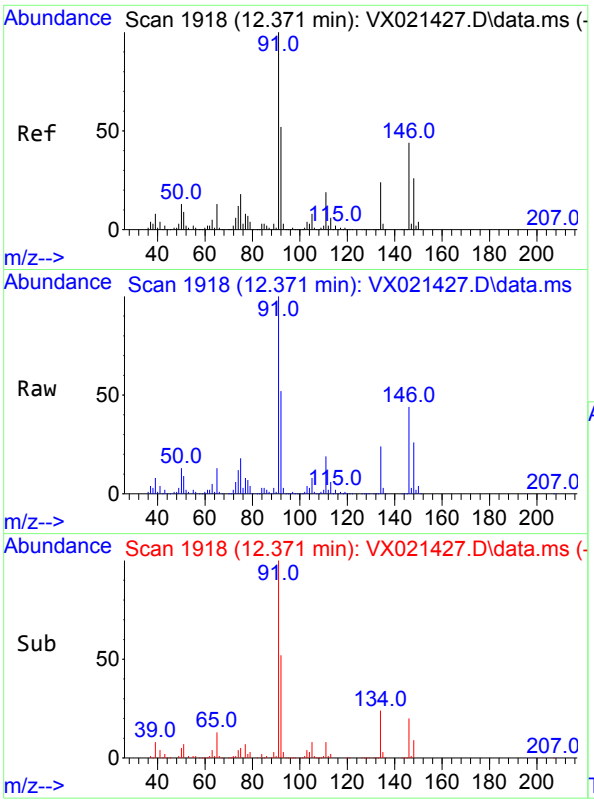
Tgt Ion:146 Resp: 98243

Ion	Ratio	Lower	Upper
146	100		
111	41.8	19.6	58.8
148	64.9	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

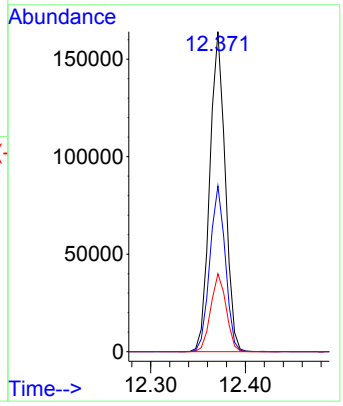
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

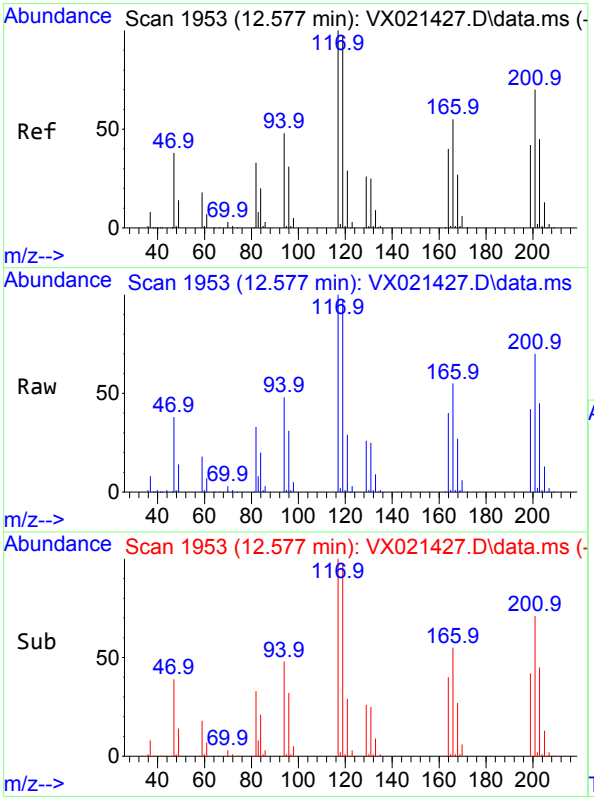


#89
n-Butylbenzene
Concen: 51.48 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion: 91 Resp: 184796

Ion	Ratio	Lower	Upper
91	100		
92	52.1	27.4	82.0
134	24.3	13.2	39.5

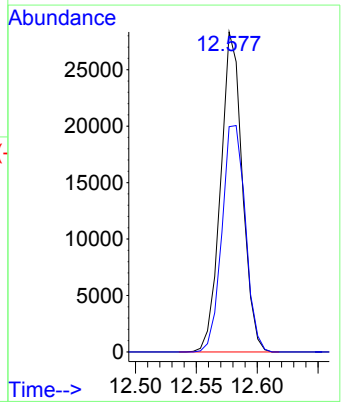




#90
Hexachloroethane
Concen: 57.42 ug/l
RT: 12.577 min Scan# 1953
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

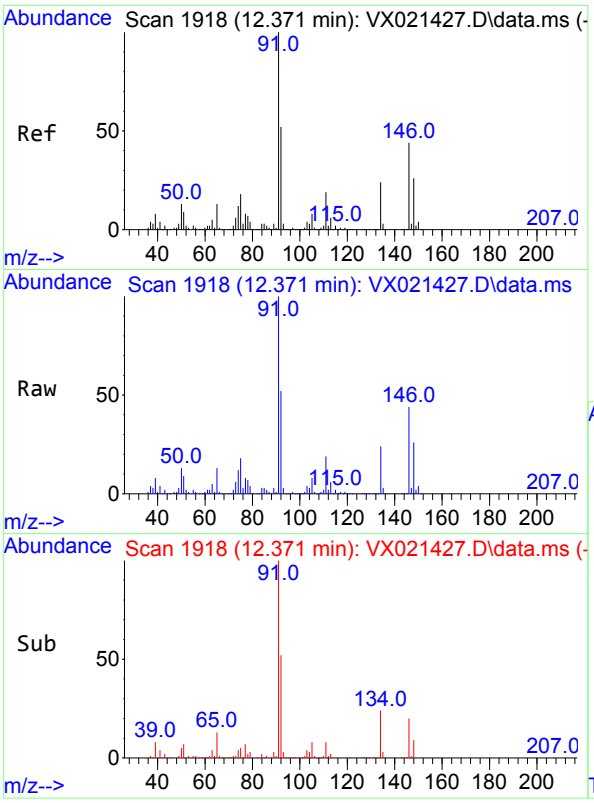
Tgt Ion:117 Resp: 35137

Ion	Ratio	Lower	Upper
117	100		
201	76.4	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

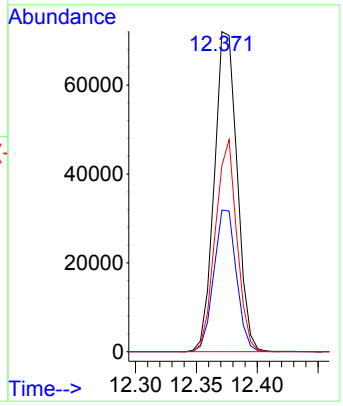
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

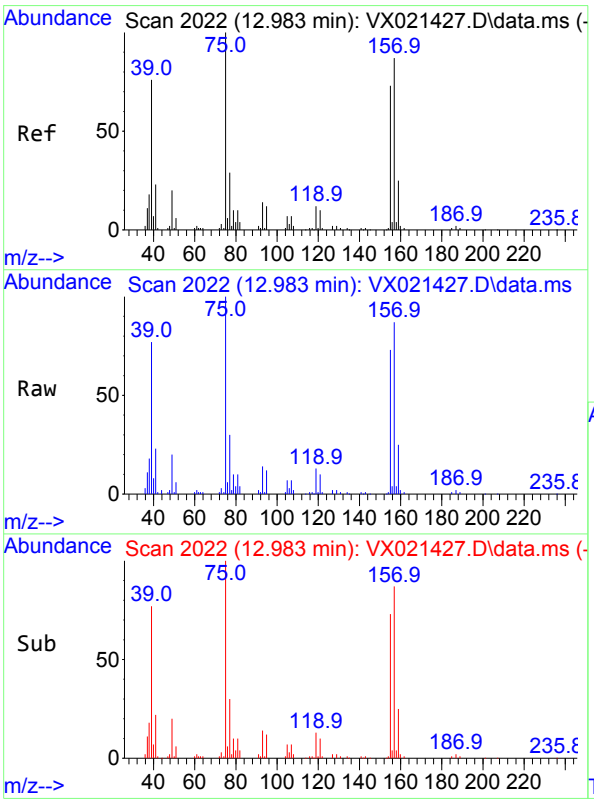


#91
1,2-Dichlorobenzene
Concen: 49.43 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:146 Resp: 94044

Ion	Ratio	Lower	Upper
146	100		
111	43.8	20.8	62.2
148	62.5	31.9	95.5

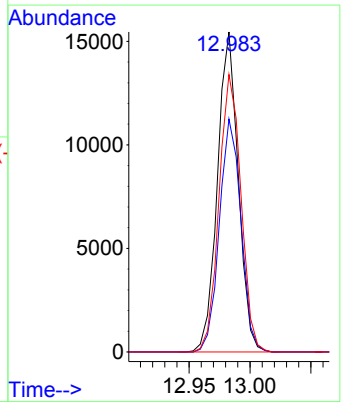




#92
1,2-Dibromo-3-Chloropropane
Concen: 48.04 ug/l
RT: 12.983 min Scan# 2022
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

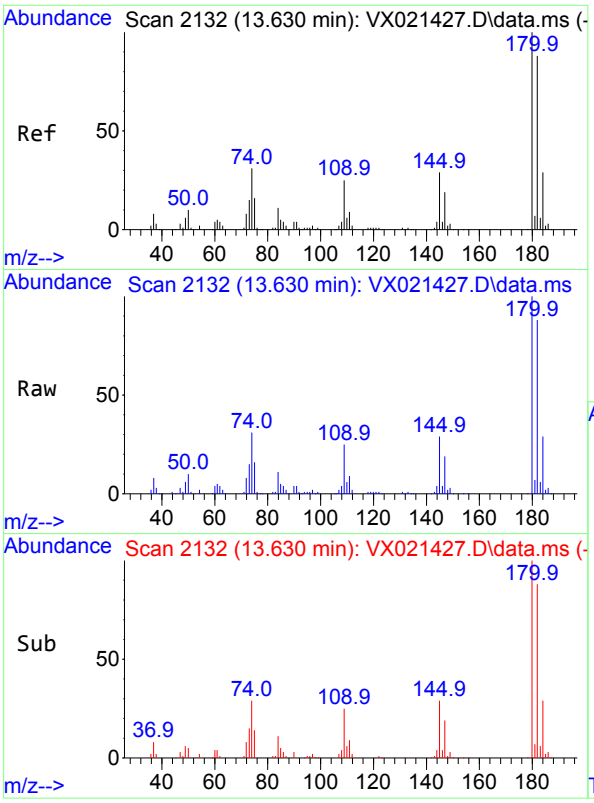
Tgt Ion: 75 Resp: 18401

Ion	Ratio	Lower	Upper
75	100		
155	75.3	45.3	135.9
157	91.2	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

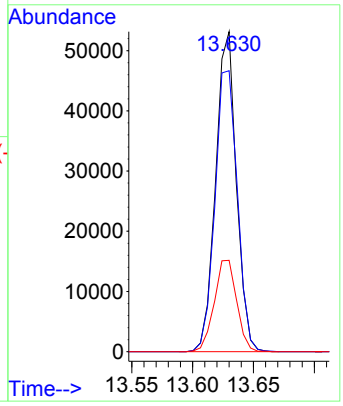
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

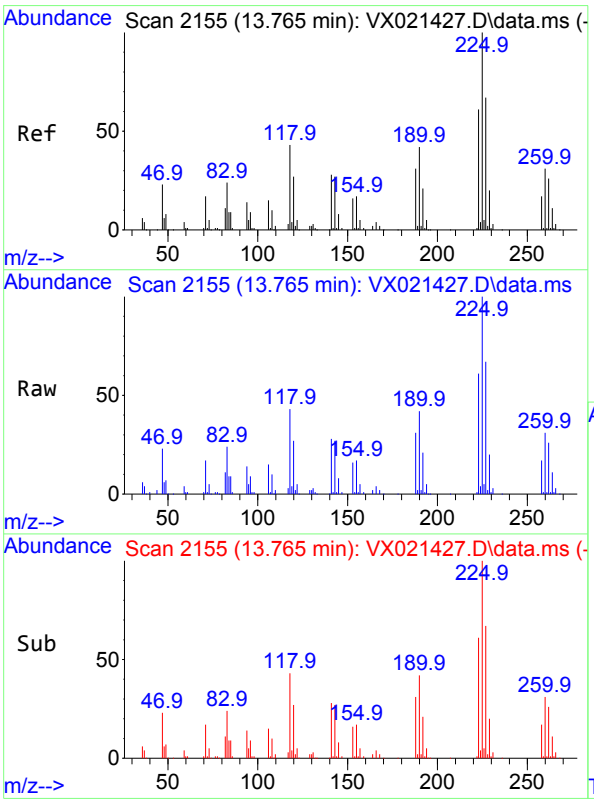


#93
1,2,4-Trichlorobenzene
Concen: 50.11 ug/l
RT: 13.630 min Scan# 2132
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:180 Resp: 62880

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.7	143.1
145	31.1	15.0	45.0

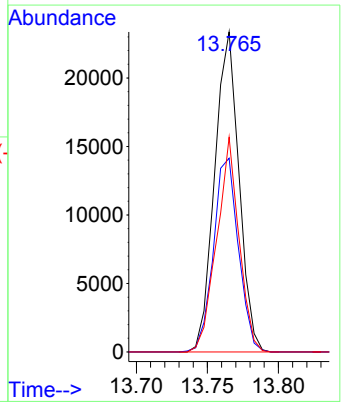




#94
Hexachlorobutadiene
Concen: 52.60 ug/l
RT: 13.765 min Scan# 2155
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

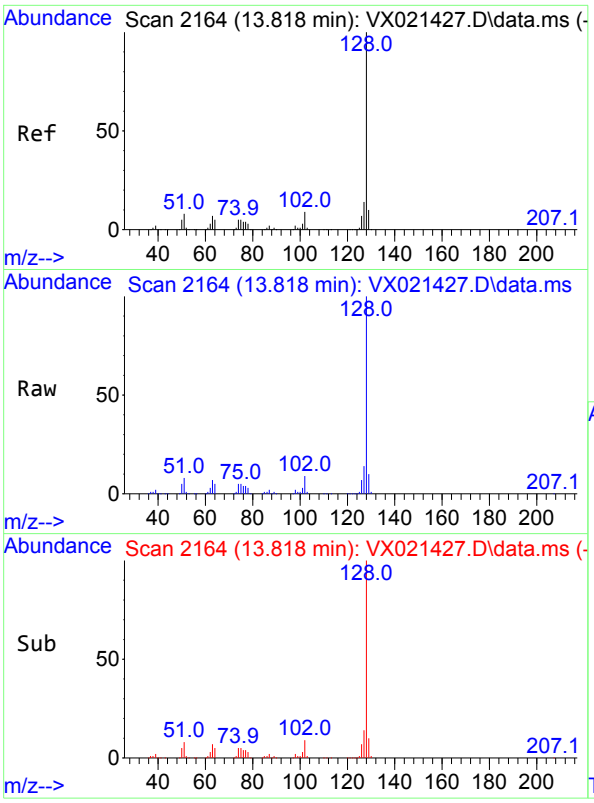
Tgt Ion:225 Resp: 27802

Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.1	93.2
227	61.4	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

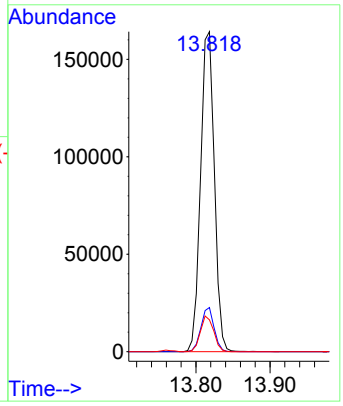
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:31 AM

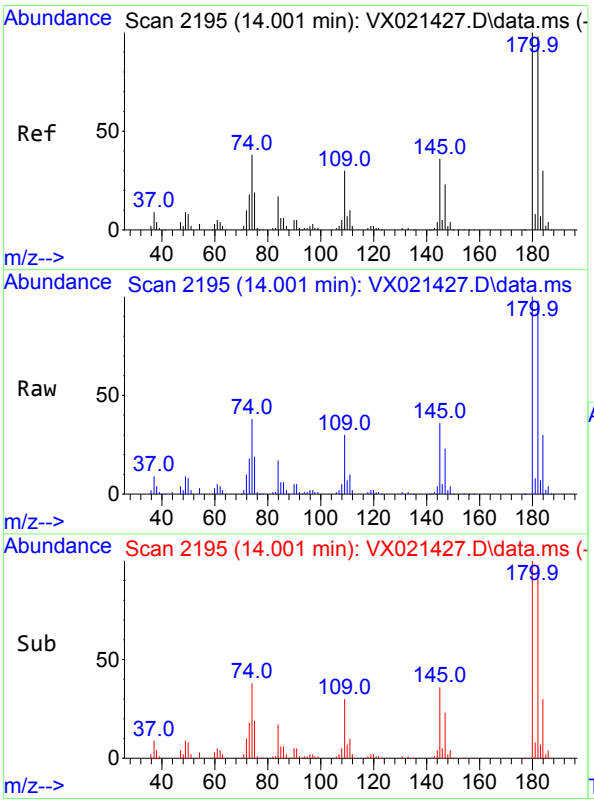


#95
Naphthalene
Concen: 49.47 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:128 Resp: 212118

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.3	15.5
129	10.8	8.8	13.2

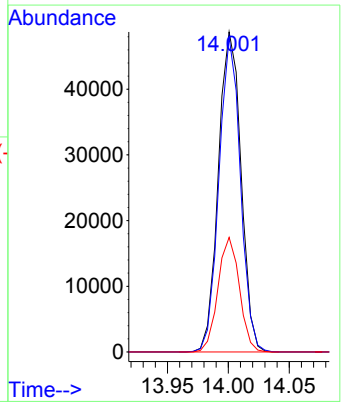




#96
1,2,3-Trichlorobenzene
Concen: 50.63 ug/l
RT: 14.001 min Scan# 2195
Delta R.T. 0.000 min
Lab File: VX021427.D
Acq: 24 Mar 2021 11:13

Tgt Ion:180 Resp: 62885

Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.6	142.9
145	34.0	16.1	48.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021428.D
Acq On : 24 Mar 2021 11:36
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 11:58:42 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICC100

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.623	168	79280	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	131882	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	125390	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.065	152	63611	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.029	65	132636	102.58	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 205.16%#				
35) Dibromofluoromethane	5.464	113	95971	106.75	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 213.50%#				
50) Toluene-d8	8.694	98	346837	105.86	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 211.72%#				
62) 4-Bromofluorobenzene	11.123	95	137381	108.54	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 217.08%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.181	85	91069	97.89	ug/l		98
3) Chloromethane	1.310	50	101444	57.66	ug/l		99
4) Vinyl Chloride	1.393	62	95028	100.16	ug/l		99
5) Bromomethane	1.616	94	34944	85.62	ug/l		99
6) Chloroethane	1.693	64	58525	100.55	ug/l		99
7) Trichlorofluoromethane	1.905	101	149199	103.56	ug/l		99
8) Diethyl Ether	2.169	74	50378	99.68	ug/l		78
9) 1,1,2-Trichlorotrifluo...	2.358	101	83813	102.19	ug/l		97
10) Methyl Iodide	2.481	142	66087	95.29	ug/l	#	87
11) Tert butyl alcohol	3.028	59	113050	521.24	ug/l		97
12) 1,1-Dichloroethene	2.346	96	80968	101.50	ug/l		85
13) Acrolein	2.275	56	53244	403.47	ug/l		99
14) Allyl chloride	2.699	41	166381	101.15	ug/l	#	89
15) Acrylonitrile	3.117	53	269855	532.01	ug/l		97
16) Acetone	2.422	43	252834	527.02	ug/l	#	88
17) Carbon Disulfide	2.546	76	220768	89.47	ug/l		99
18) Methyl Acetate	2.752	43	156862	116.69	ug/l		90
19) Methyl tert-butyl Ether	3.169	73	316007	105.38	ug/l		99
20) Methylene Chloride	2.834	84	97112	99.33	ug/l		88
21) trans-1,2-Dichloroethene	3.134	96	90858	101.64	ug/l		91
22) Diisopropyl ether	3.828	45	331401	104.69	ug/l		93
23) Vinyl Acetate	3.787	43	1434541	523.44	ug/l	#	93
24) 1,1-Dichloroethane	3.664	63	177129	103.40	ug/l		97
25) 2-Butanone	4.634	43	397210	541.52	ug/l		91
26) 2,2-Dichloropropane	4.546	77	152762	102.53	ug/l		95
27) cis-1,2-Dichloroethene	4.558	96	107096	104.13	ug/l		91
28) Bromochloromethane	4.976	49	82676	102.26	ug/l		86
29) Tetrahydrofuran	5.093	42	256372	530.35	ug/l		86
30) Chloroform	5.176	83	187353	105.04	ug/l		100
31) Cyclohexane	5.546	56	152110	98.47	ug/l		91
32) 1,1,1-Trichloroethane	5.458	97	167161	105.72	ug/l		97
36) 1,1-Dichloropropene	5.764	75	134298	101.53	ug/l		96
37) Ethyl Acetate	4.799	43	152631	99.81	ug/l	#	93
38) Carbon Tetrachloride	5.752	117	146353	106.25	ug/l		96
39) Methylcyclohexane	7.435	83	151837	103.34	ug/l		94
40) Benzene	6.111	78	384675	105.33	ug/l		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021428.D
Acq On : 24 Mar 2021 11:36
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 11:58:42 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICC100

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	5.005	41	88787	100.20	ug/l		88
42) 1,2-Dichloroethane	6.158	62	164775	104.24	ug/l		94
43) Isopropyl Acetate	6.411	43	259301	103.35	ug/l	#	91
44) Trichloroethene	7.188	130	99940	103.11	ug/l		91
45) 1,2-Dichloropropane	7.488	63	103968	105.72	ug/l		97
46) Dibromomethane	7.635	93	75136	104.11	ug/l		93
47) Bromodichloromethane	7.876	83	156643	108.46	ug/l		100
48) Methyl methacrylate	7.747	41	140030	104.62	ug/l	#	82
49) 1,4-Dioxane	7.717	88	48852	1968.00	ug/l	#	90
51) 4-Methyl-2-Pentanone	8.623	43	815042	552.94	ug/l		88
52) Toluene	8.764	92	244057	107.96	ug/l		97
53) t-1,3-Dichloropropene	9.023	75	168002	109.99	ug/l		99
54) cis-1,3-Dichloropropene	8.411	75	174335	107.20	ug/l	#	84
55) 1,1,2-Trichloroethane	9.194	97	103026	110.93	ug/l		98
56) Ethyl methacrylate	9.158	69	165184	111.07	ug/l	#	76
57) 1,3-Dichloropropane	9.353	76	174019	107.59	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.294	63	441623	539.07	ug/l		96
59) 2-Hexanone	9.476	43	613958	556.73	ug/l		85
60) Dibromochloromethane	9.564	129	119524	113.18	ug/l		99
61) 1,2-Dibromoethane	9.653	107	111869	109.49	ug/l		100
64) Tetrachloroethene	9.317	164	84336	90.94	ug/l	#	85
65) Chlorobenzene	10.123	112	269584	104.49	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.206	131	104804	109.05	ug/l		100
67) Ethyl Benzene	10.235	91	498820	104.99	ug/l		98
68) m/p-Xylenes	10.341	106	360990	212.61	ug/l		95
69) o-Xylene	10.682	106	173227	105.06	ug/l		95
70) Styrene	10.694	104	304248	109.55	ug/l		96
71) Bromoform	10.841	173	85567	110.48	ug/l	#	98
73) Isopropylbenzene	11.000	105	479841	102.04	ug/l		99
74) N-amyl acetate	10.882	43	228255	97.03	ug/l	#	88
75) 1,1,2,2-Tetrachloroethane	11.253	83	160426	102.72	ug/l		100
76) 1,2,3-Trichloropropane	11.276	75	152478m	101.30	ug/l		
77) Bromobenzene	11.241	156	115284	102.92	ug/l		95
78) n-propylbenzene	11.341	91	565557	102.95	ug/l		98
79) 2-Chlorotoluene	11.406	91	333139	99.75	ug/l		98
80) 1,3,5-Trimethylbenzene	11.488	105	411910	103.63	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.059	75	53216	99.76	ug/l		87
82) 4-Chlorotoluene	11.494	91	399561	101.54	ug/l		96
83) tert-Butylbenzene	11.753	119	405116	106.72	ug/l		94
84) 1,2,4-Trimethylbenzene	11.788	105	416328	103.05	ug/l		98
85) sec-Butylbenzene	11.929	105	468364	104.62	ug/l		99
86) p-Isopropyltoluene	12.047	119	427235	104.28	ug/l		97
87) 1,3-Dichlorobenzene	12.012	146	211216	103.59	ug/l		98
88) 1,4-Dichlorobenzene	12.082	146	205539	99.04	ug/l		97
89) n-Butylbenzene	12.371	91	395671	105.99	ug/l		98
90) Hexachloroethane	12.577	117	77593	121.93	ug/l		93
91) 1,2-Dichlorobenzene	12.377	146	202350	102.27	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.983	75	40154	100.81	ug/l		82
93) 1,2,4-Trichlorobenzene	13.630	180	141949	108.78	ug/l		99
94) Hexachlorobutadiene	13.765	225	58586	106.58	ug/l		97
95) Naphthalene	13.818	128	466719	104.68	ug/l		100
96) 1,2,3-Trichlorobenzene	14.000	180	135416	104.85	ug/l		97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021428.D
Acq On : 24 Mar 2021 11:36
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 11:58:42 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

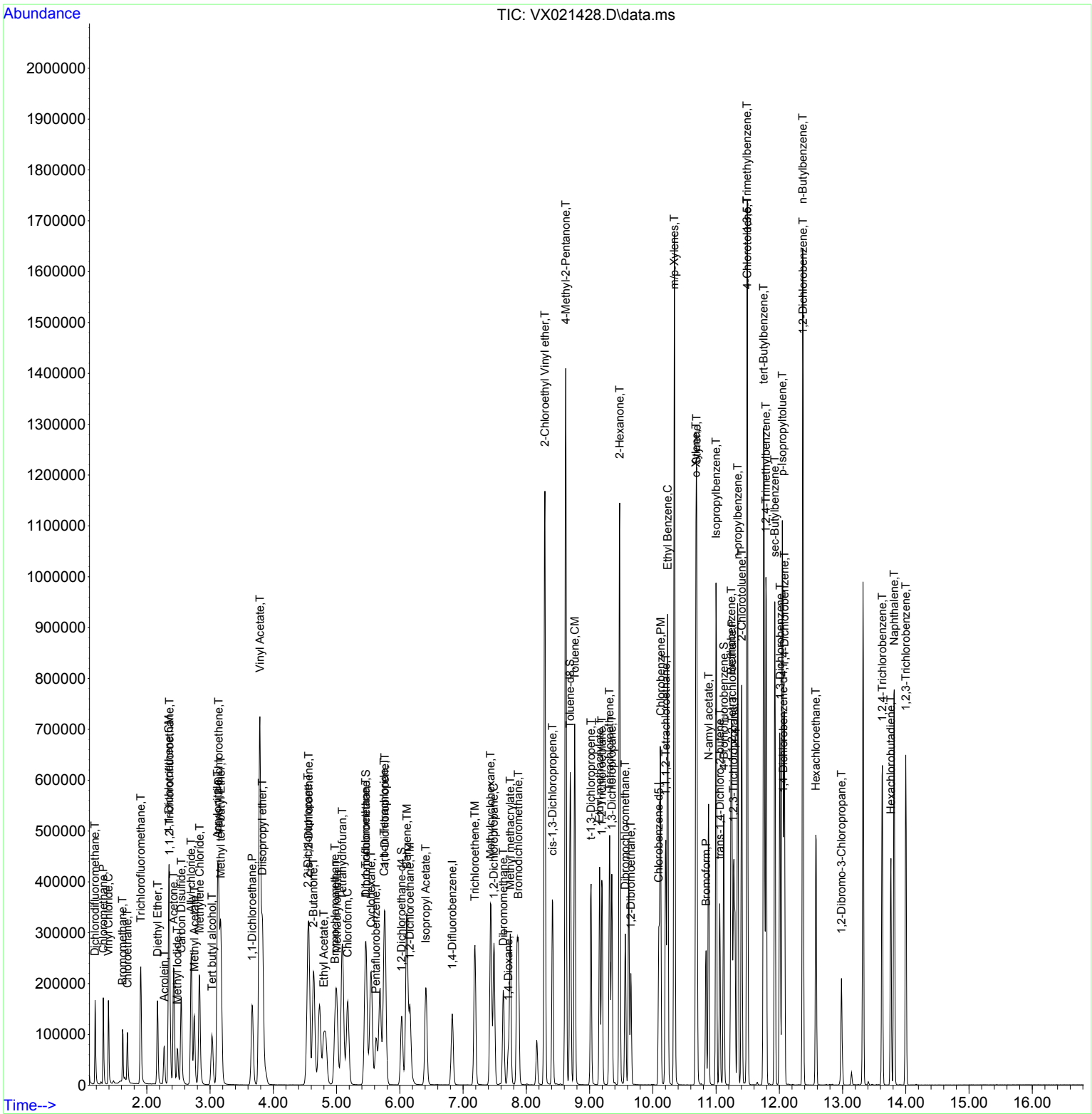
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021428.D
Acq On : 24 Mar 2021 11:36
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 24 11:58:42 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

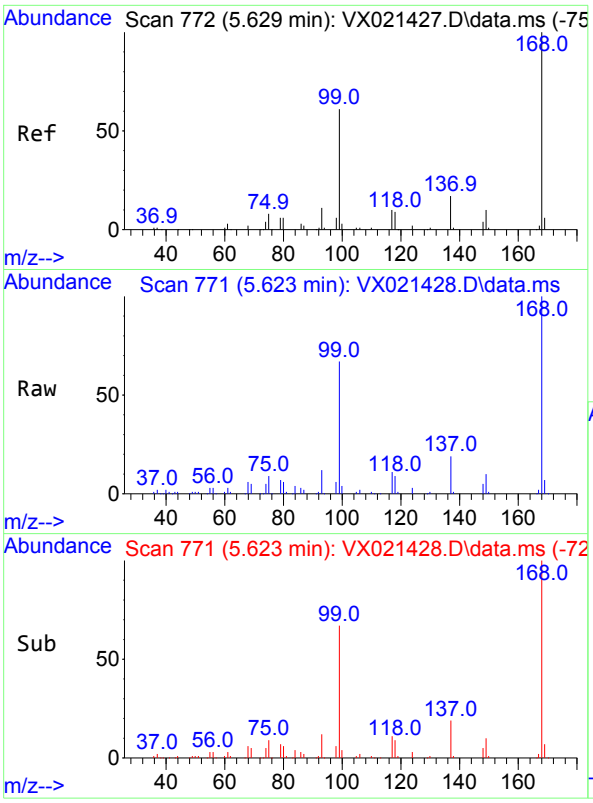
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

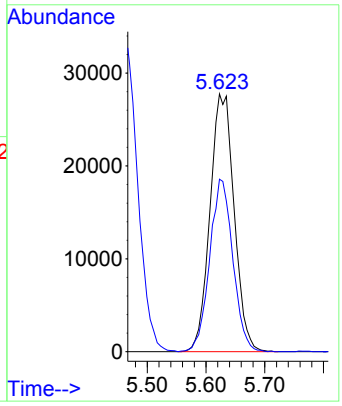
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

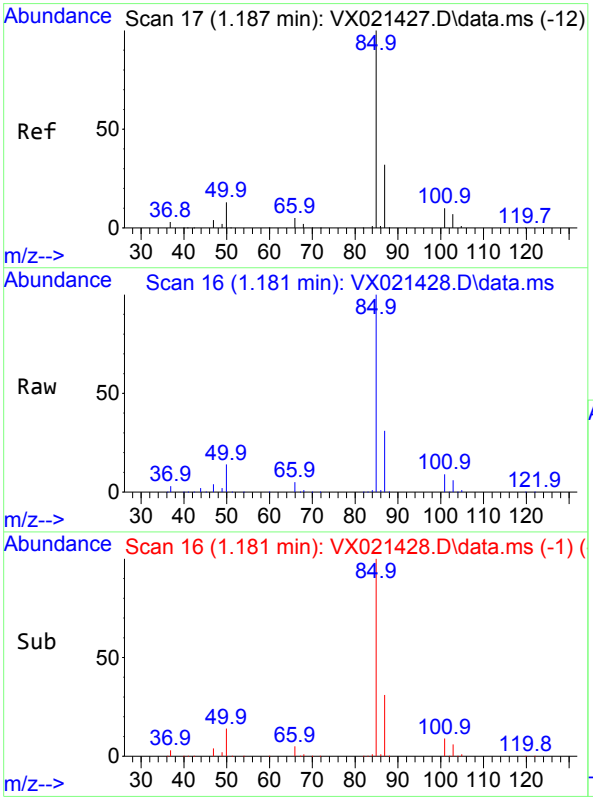


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 771
Delta R.T. -0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:168 Resp: 79280

Ion	Ratio	Lower	Upper
168	100		
99	66.9	45.8	68.6

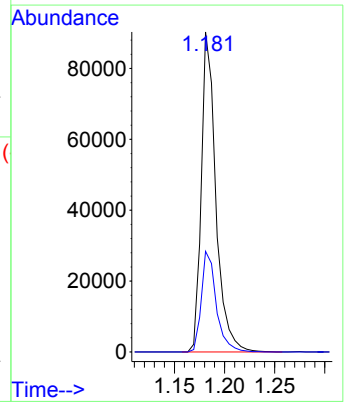




#2
Dichlorodifluoromethane
Concen: 97.89 ug/l
RT: 1.181 min Scan# 16
Delta R.T. -0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

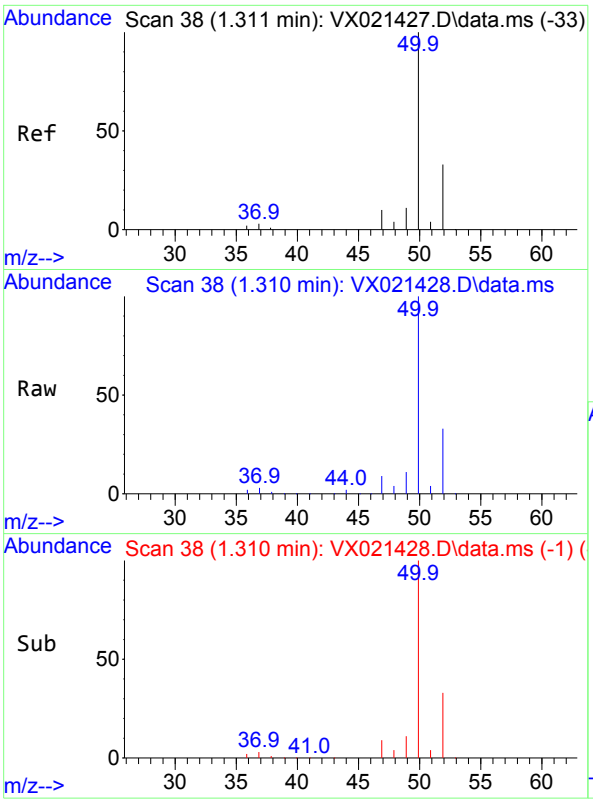
Tgt Ion: 85 Resp: 91069

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

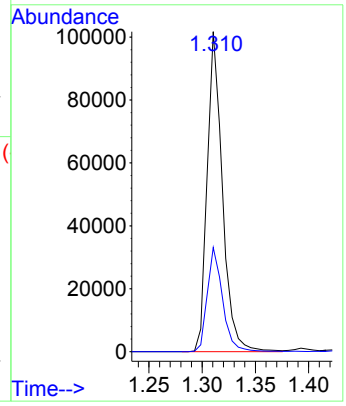
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

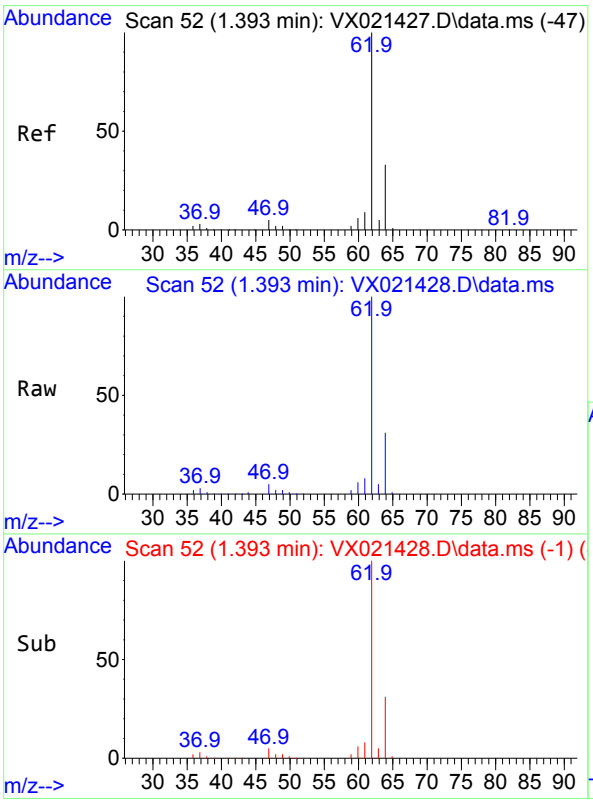


#3
Chloromethane
Concen: 57.66 ug/l
RT: 1.310 min Scan# 38
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 50 Resp: 101444

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.4	39.6

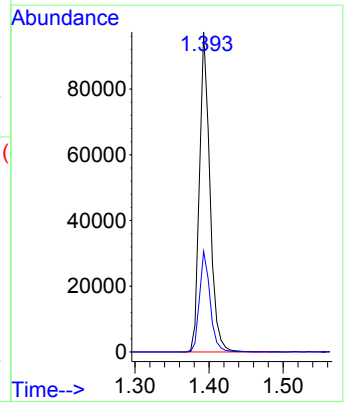




#4
Vinyl Chloride
Concen: 100.16 ug/l
RT: 1.393 min Scan# 52
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

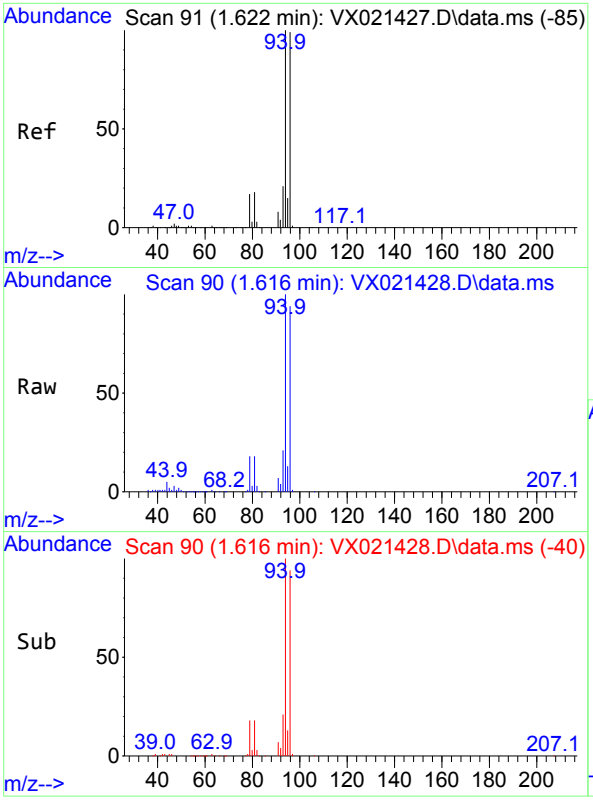
Tgt Ion: 62 Resp: 95028

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

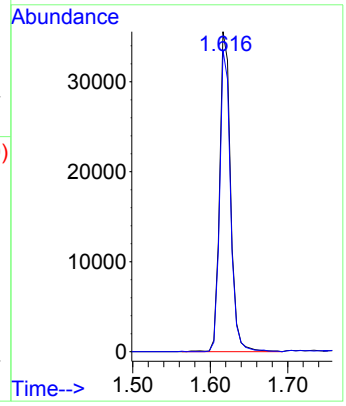
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

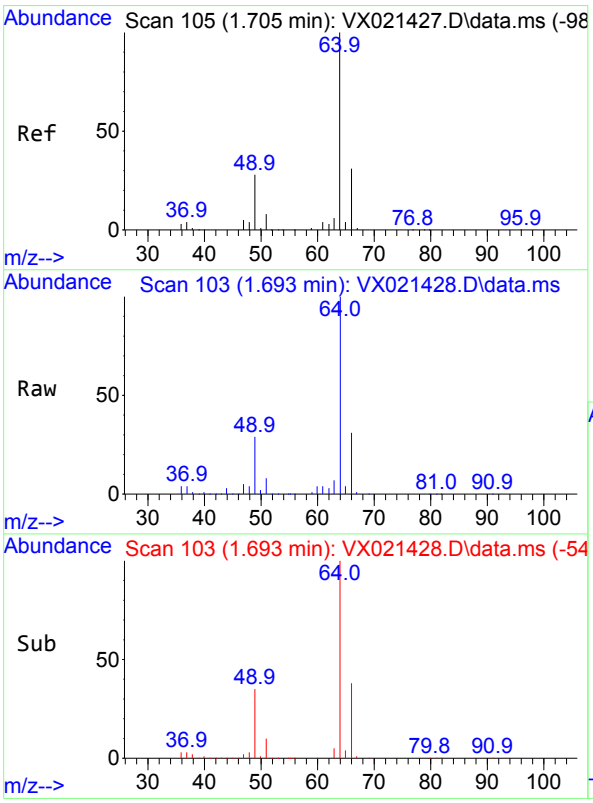


#5
Bromomethane
Concen: 85.62 ug/l
RT: 1.616 min Scan# 90
Delta R.T. -0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 94 Resp: 34944

Ion	Ratio	Lower	Upper
94	100		
96	94.1	76.4	114.6

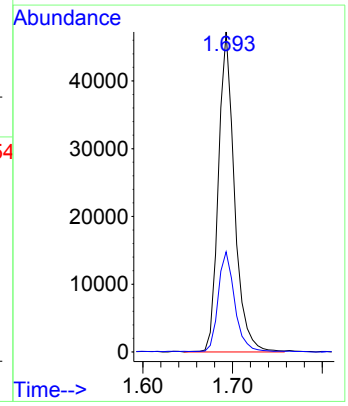




#6
Chloroethane
Concen: 100.55 ug/l
RT: 1.693 min Scan# 103
Delta R.T. -0.012 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

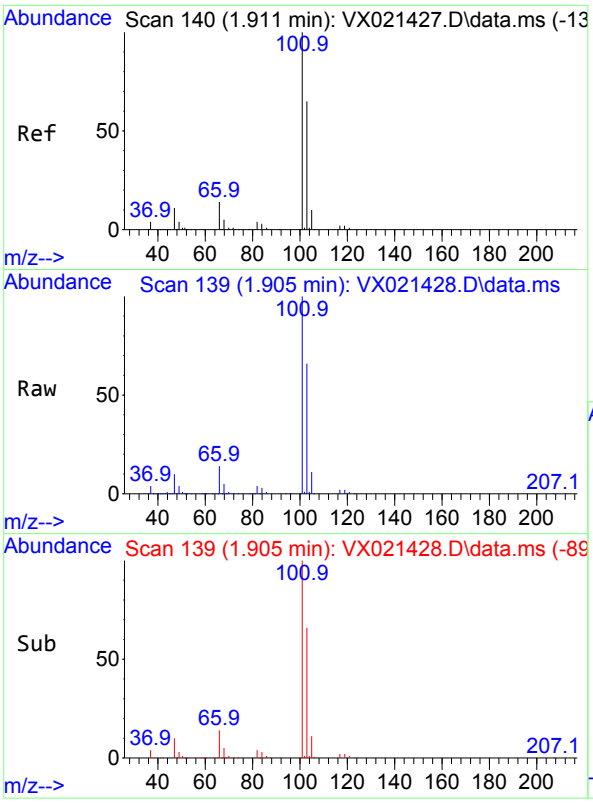
Tgt Ion: 64 Resp: 58525

Ion	Ratio	Lower	Upper
64	100		
66	31.1	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

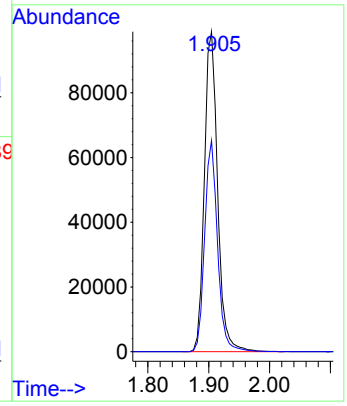
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

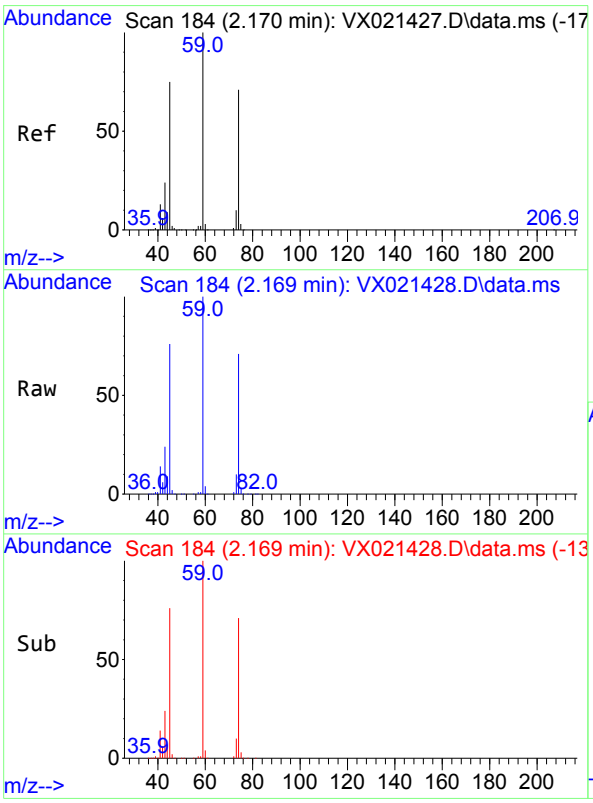


#7
Trichlorofluoromethane
Concen: 103.56 ug/l
RT: 1.905 min Scan# 139
Delta R.T. -0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:101 Resp: 149199

Ion	Ratio	Lower	Upper
101	100		
103	66.0	53.2	79.8

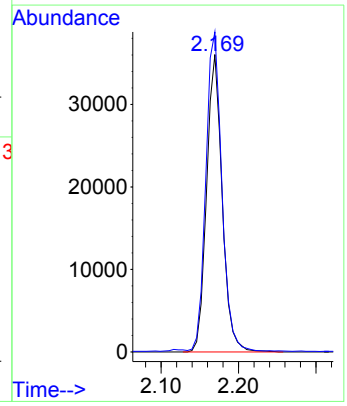




#8
Diethyl Ether
Concen: 99.68 ug/l
RT: 2.169 min Scan# 184
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

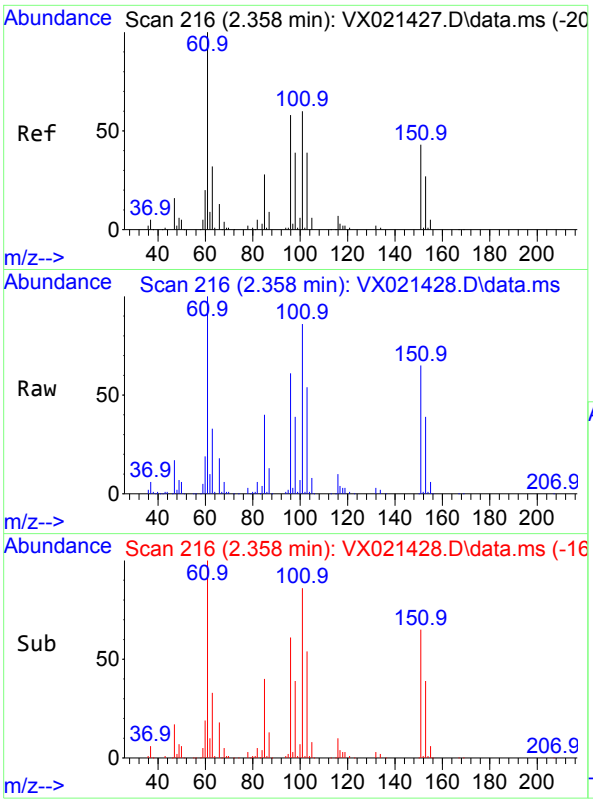
Tgt Ion: 74 Resp: 50378

Ion	Ratio	Lower	Upper
74	100		
45	109.6	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

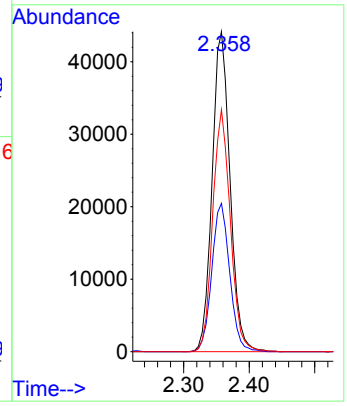
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

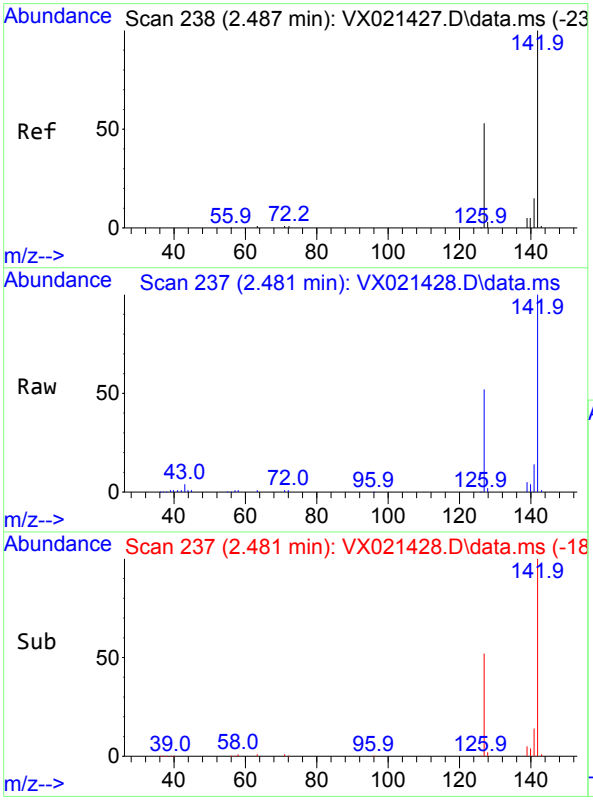


#9
1,1,2-Trichlorotrifluoroethane
Concen: 102.19 ug/l
RT: 2.358 min Scan# 216
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:101 Resp: 83813

Ion	Ratio	Lower	Upper
101	100		
85	46.4	34.9	52.3
151	74.6	61.4	92.2

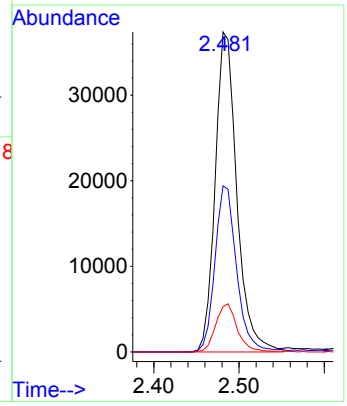




#10
Methyl Iodide
Concen: 95.29 ug/l
RT: 2.481 min Scan# 237
Delta R.T. -0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

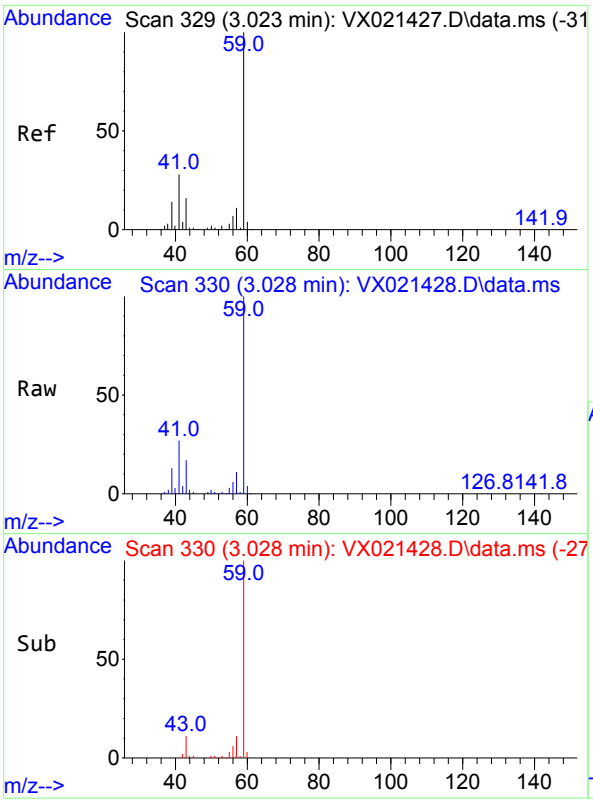
Tgt Ion:142 Resp: 66087

Ion	Ratio	Lower	Upper
142	100		
127	52.0	33.3	49.9#
141	15.1	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

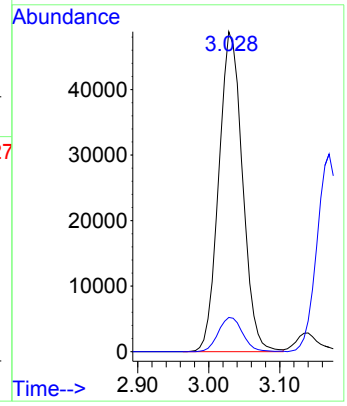
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

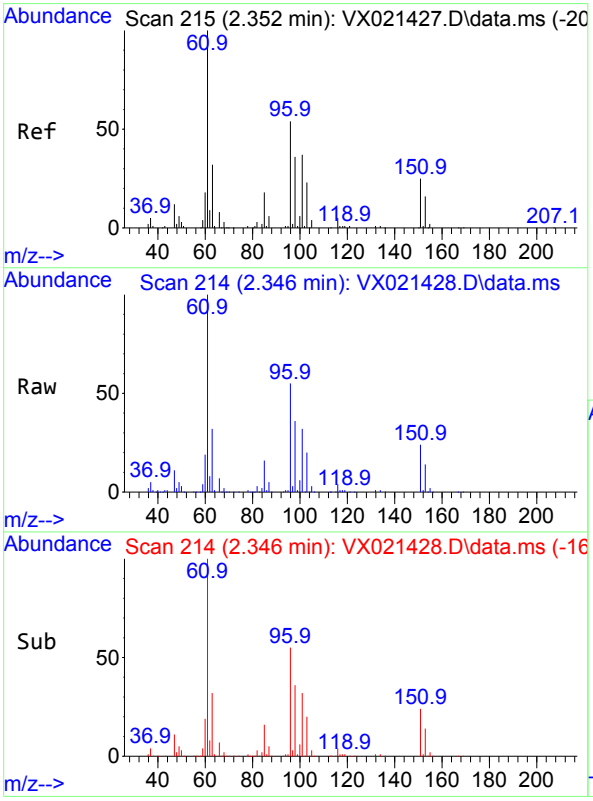


#11
Tert butyl alcohol
Concen: 521.24 ug/l
RT: 3.028 min Scan# 330
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 59 Resp: 113050

Ion	Ratio	Lower	Upper
59	100		
57	11.0	7.8	11.8

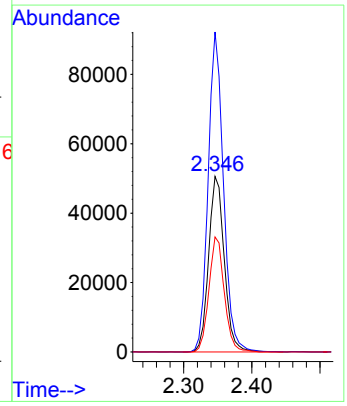




#12
1,1-Dichloroethene
Concen: 101.50 ug/l
RT: 2.346 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

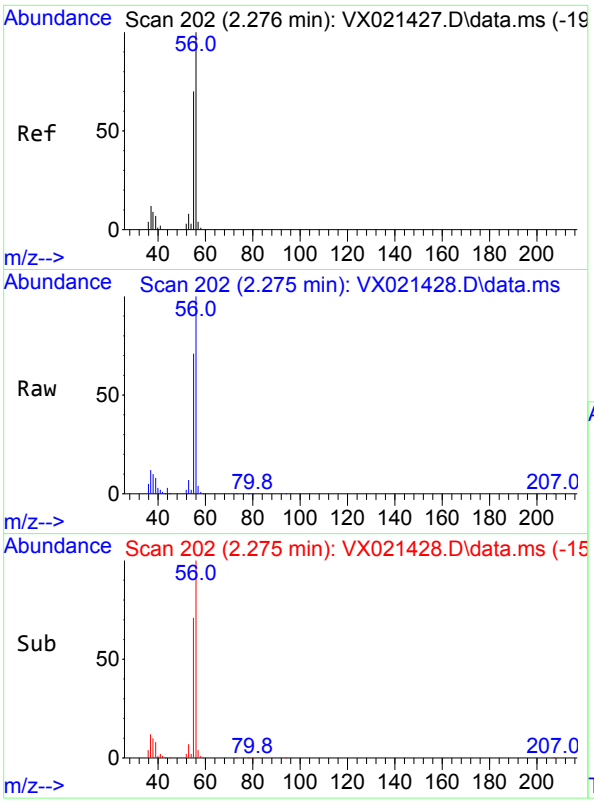
Tgt Ion: 96 Resp: 80968

Ion	Ratio	Lower	Upper
96	100		
61	182.3	124.6	187.0
98	65.6	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

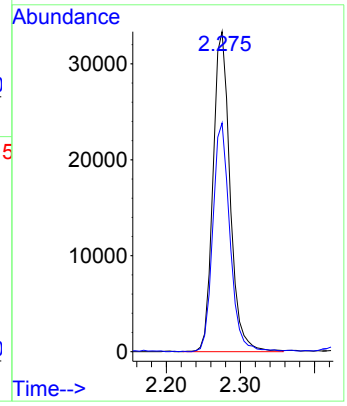
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

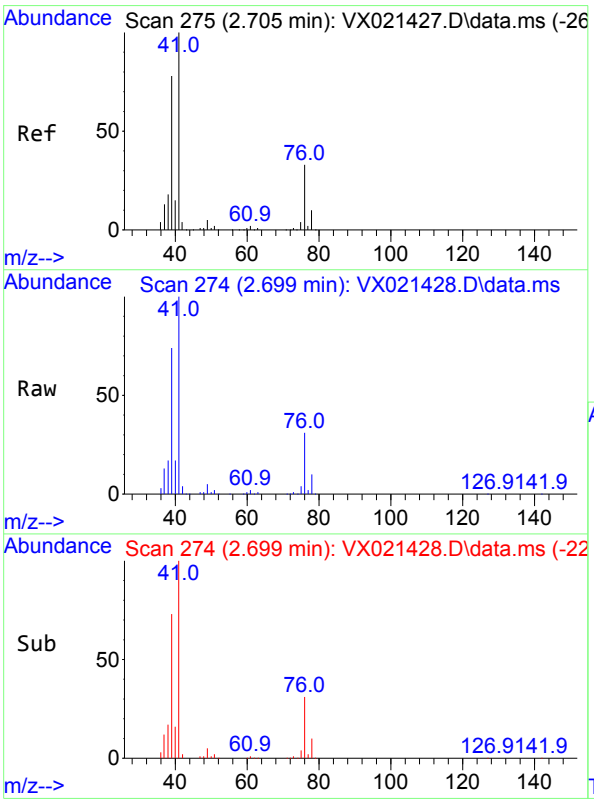


#13
Acrolein
Concen: 403.47 ug/l
RT: 2.275 min Scan# 202
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 56 Resp: 53244

Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.4	84.6

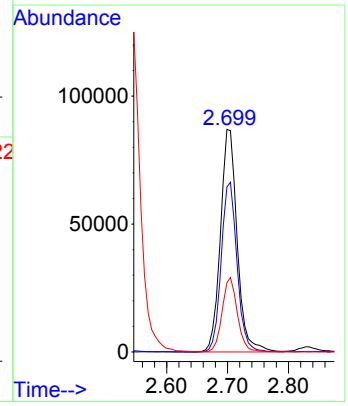




#14
Allyl chloride
Concen: 101.15 ug/l
RT: 2.699 min Scan# 274
Delta R.T. -0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

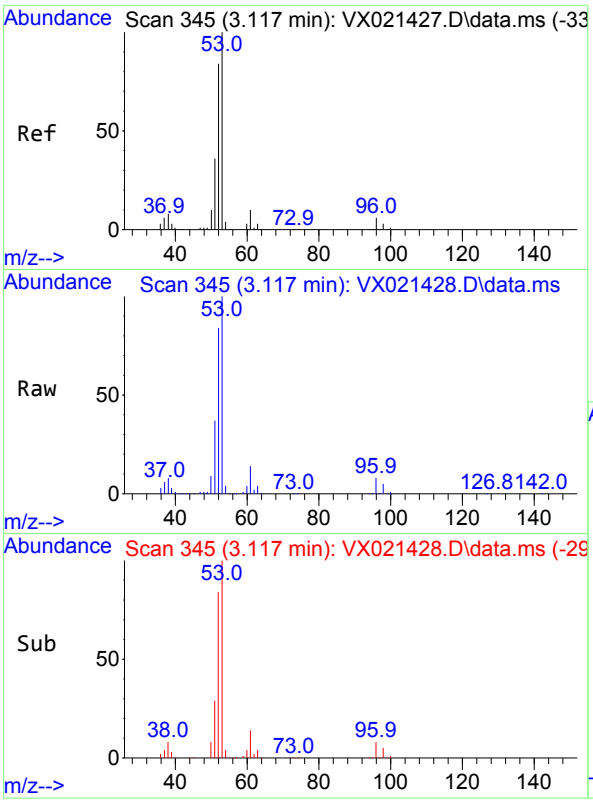
Tgt Ion: 41 Resp: 166381

Ion	Ratio	Lower	Upper
41	100		
39	72.1	51.6	77.4
76	30.5	30.5	45.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

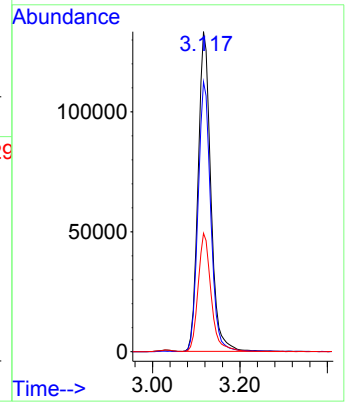
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

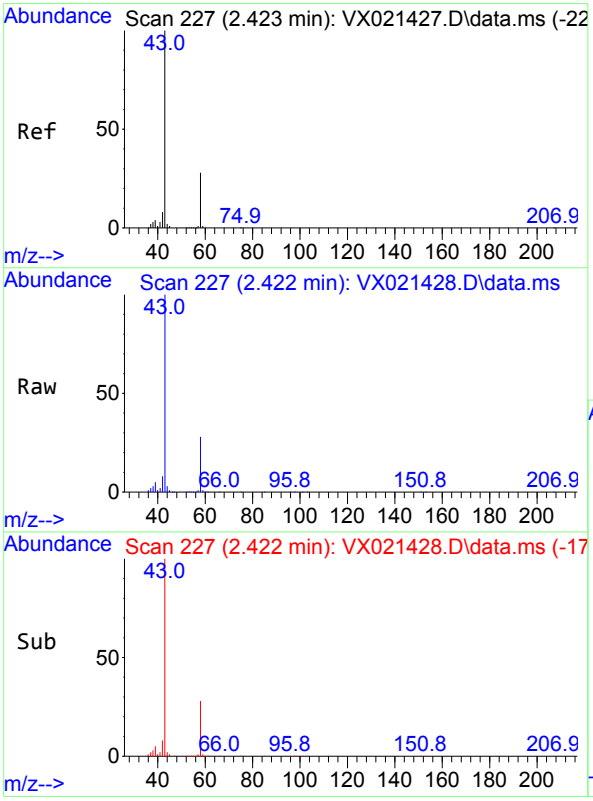


#15
Acrylonitrile
Concen: 532.01 ug/l
RT: 3.117 min Scan# 345
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 53 Resp: 269855

Ion	Ratio	Lower	Upper
53	100		
52	84.2	65.3	97.9
51	37.8	28.2	42.2

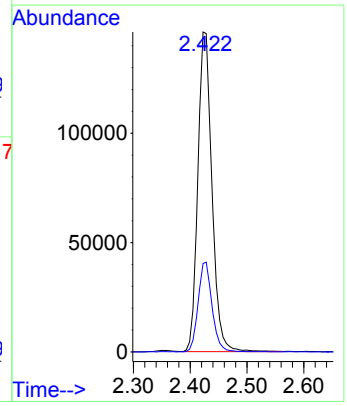




#16
Acetone
Concen: 527.02 ug/l
RT: 2.422 min Scan# 227
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

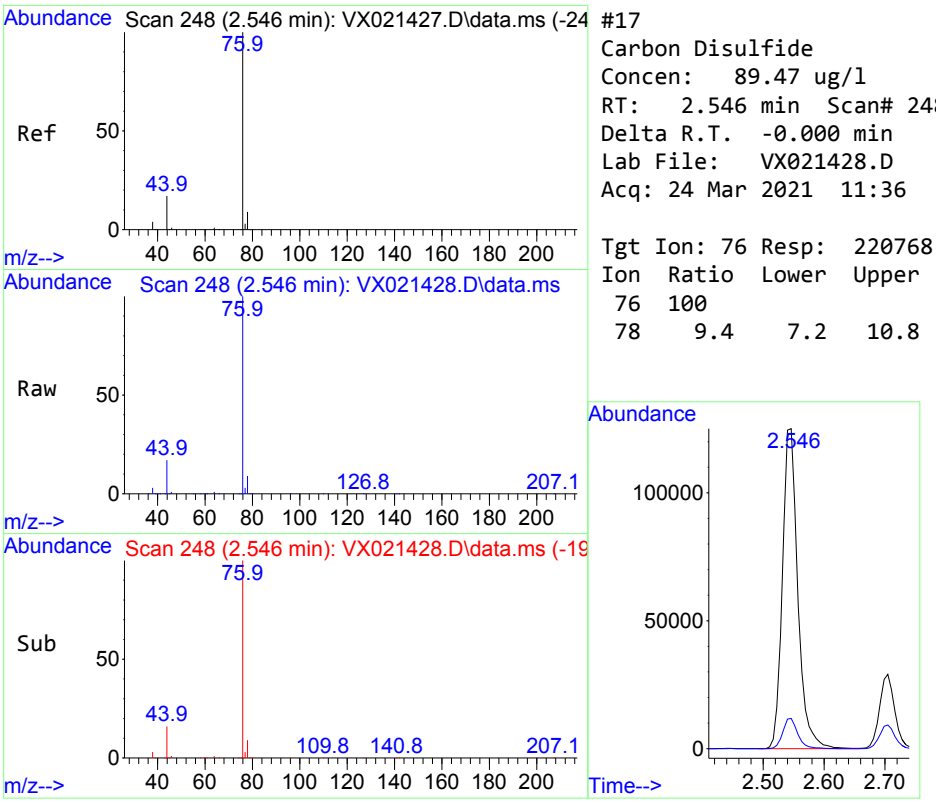
Tgt Ion: 43 Resp: 252834

Ion	Ratio	Lower	Upper
43	100		
58	27.6	27.8	41.8#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

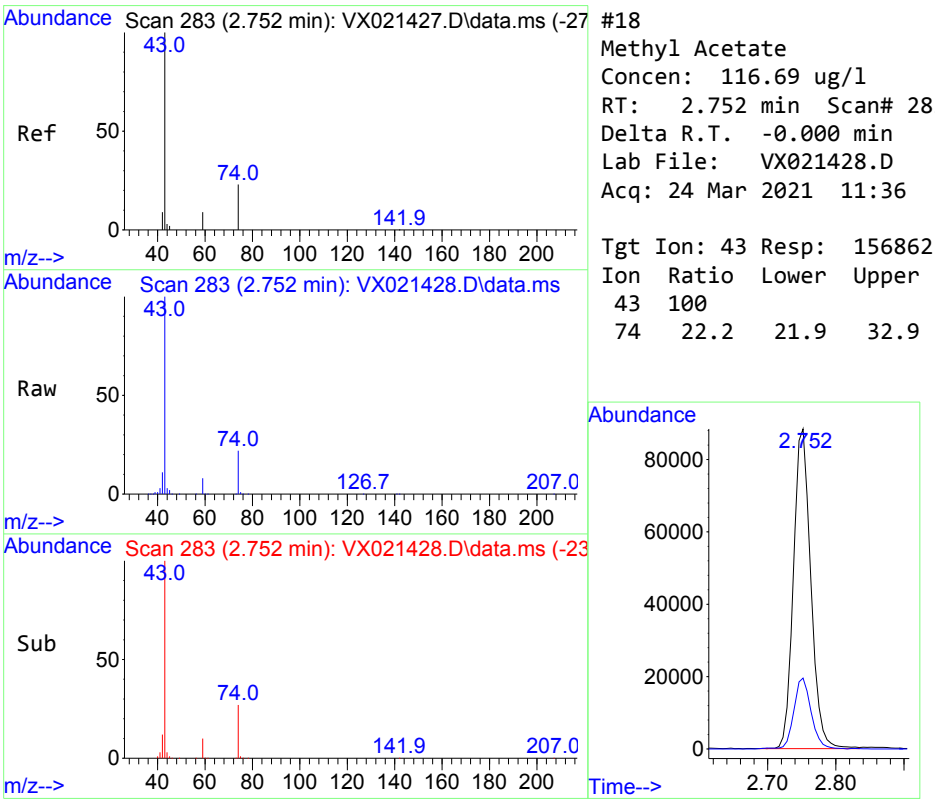
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM



#17
Carbon Disulfide
Concen: 89.47 ug/l
RT: 2.546 min Scan# 248
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 76 Resp: 220768

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.2	10.8



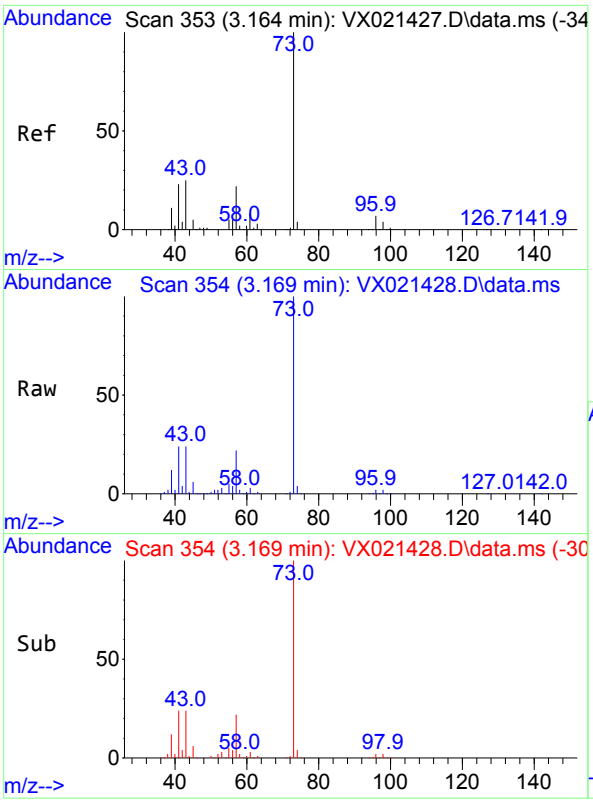
#18
Methyl Acetate
Concen: 116.69 ug/l
RT: 2.752 min Scan# 283
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 43 Resp: 156862

Ion	Ratio	Lower	Upper
43	100		
74	22.2	21.9	32.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

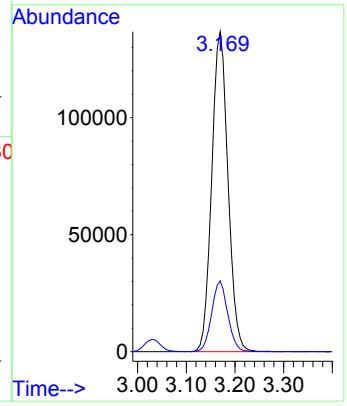
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

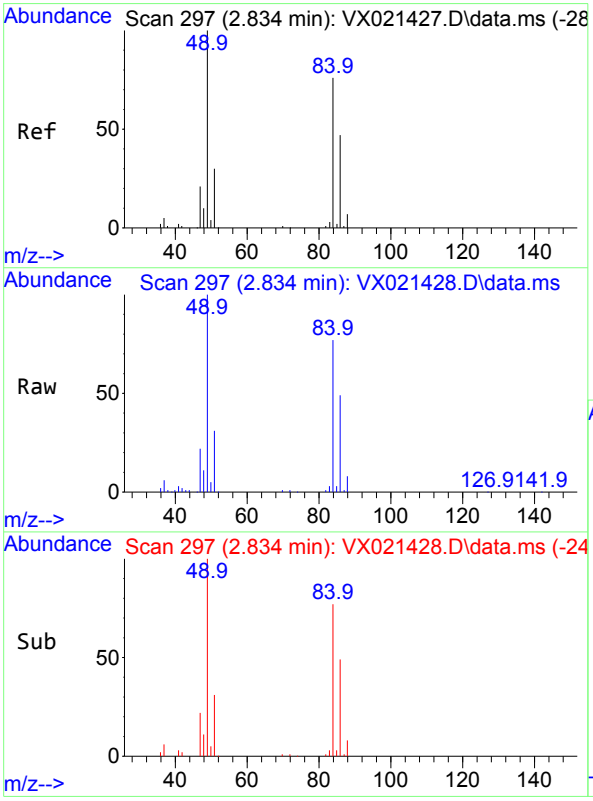


#19
Methyl tert-butyl Ether
Concen: 105.38 ug/l
RT: 3.169 min Scan# 354
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 73 Resp: 316007

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.1	25.7

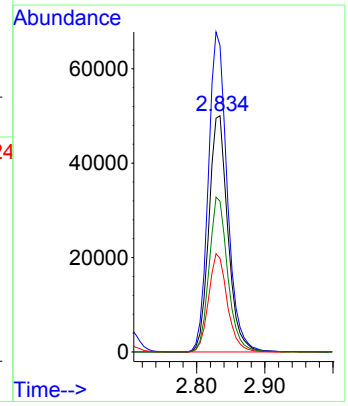




#20
Methylene Chloride
Concen: 99.33 ug/l
RT: 2.834 min Scan# 297
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

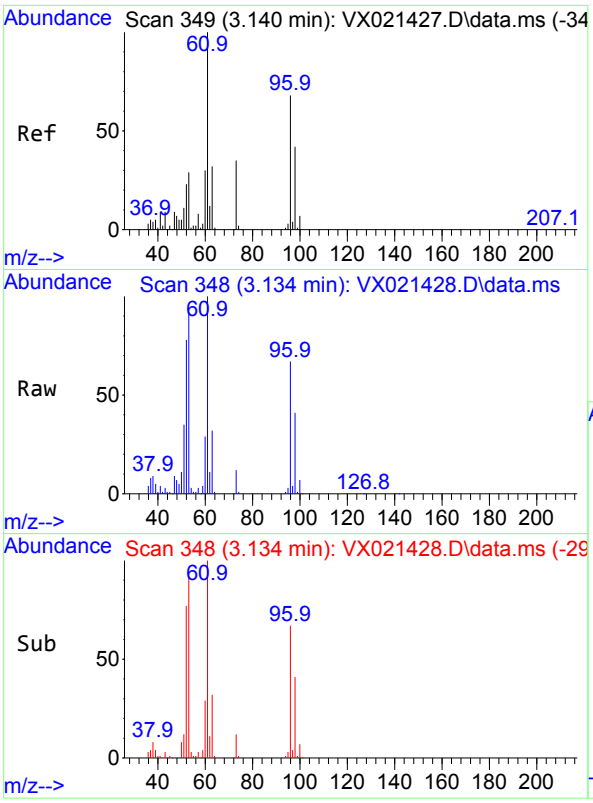
Tgt Ion: 84 Resp: 97112

Ion	Ratio	Lower	Upper
84	100		
49	129.7	88.6	132.8
51	39.6	27.0	40.6
86	63.8	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

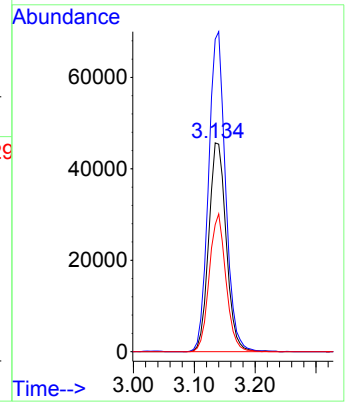
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

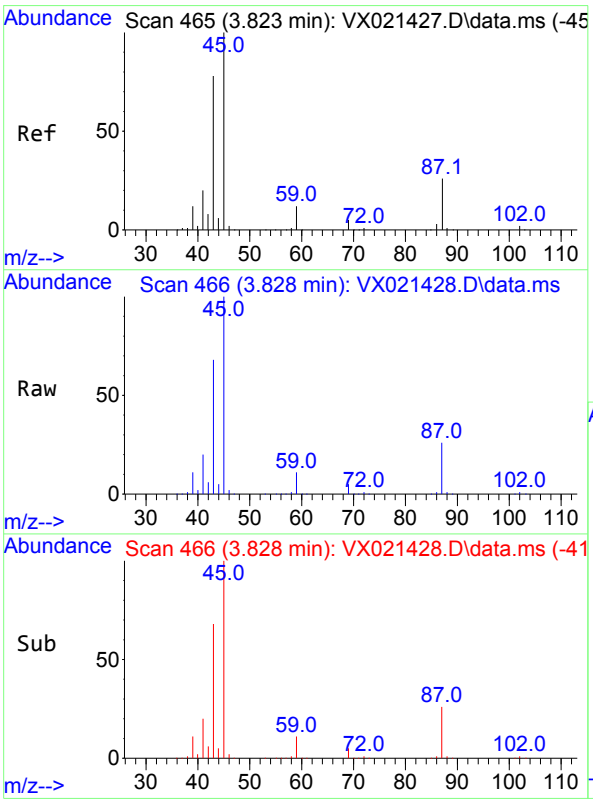


#21
trans-1,2-Dichloroethene
Concen: 101.64 ug/l
RT: 3.134 min Scan# 348
Delta R.T. -0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 96 Resp: 90858

Ion	Ratio	Lower	Upper
96	100		
61	149.6	107.7	161.5
98	60.8	50.4	75.6

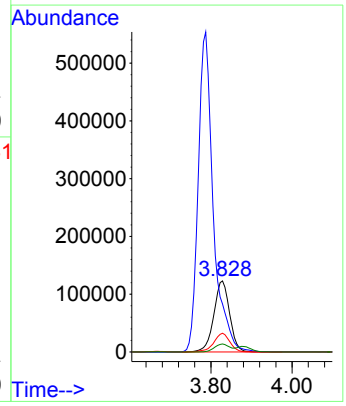




#22
Diisopropyl ether
Concen: 104.69 ug/l
RT: 3.828 min Scan# 466
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

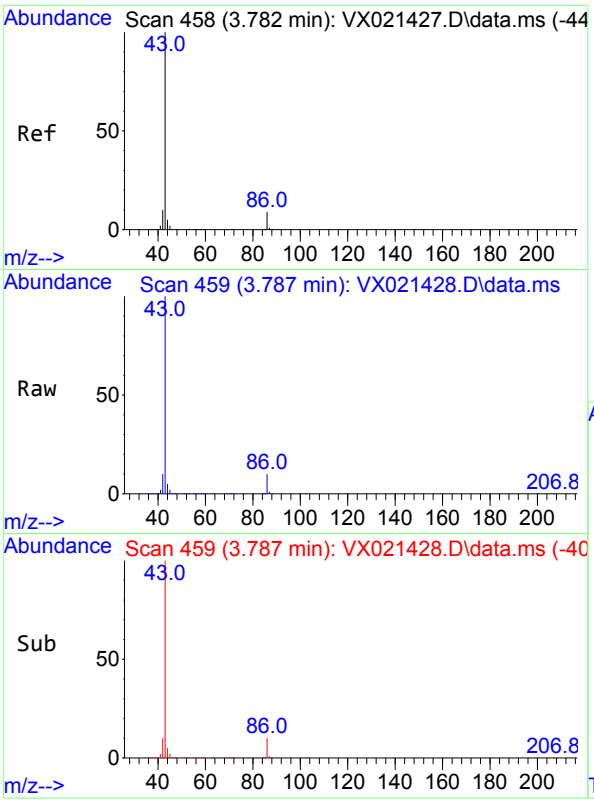
Tgt Ion: 45 Resp: 331401

Ion	Ratio	Lower	Upper
45	100		
43	67.3	58.0	87.0
87	26.3	25.4	38.0
59	11.2	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

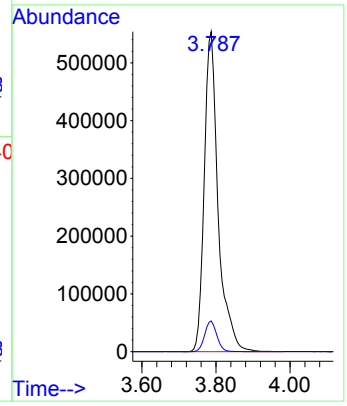
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

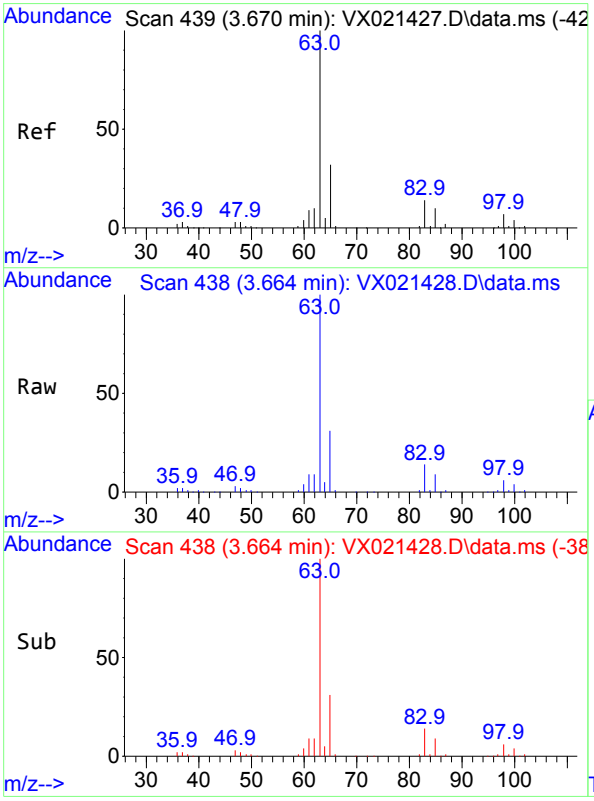


#23
Vinyl Acetate
Concen: 523.44 ug/l
RT: 3.787 min Scan# 459
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 43 Resp: 1434541

Ion	Ratio	Lower	Upper
43	100		
86	9.6	9.9	14.9#

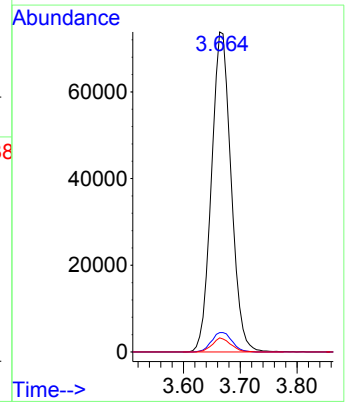




#24
1,1-Dichloroethane
Concen: 103.40 ug/l
RT: 3.664 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

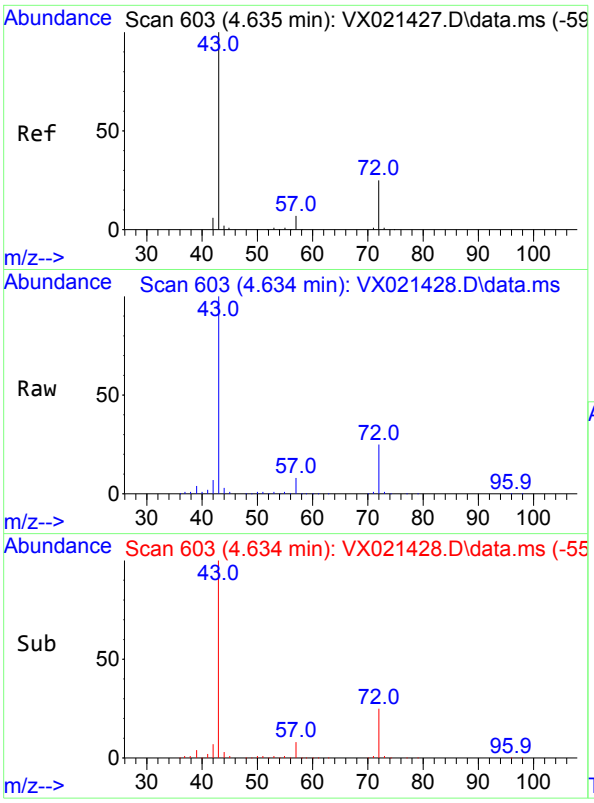
Tgt Ion: 63 Resp: 177129

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.8	11.2
100	4.4	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

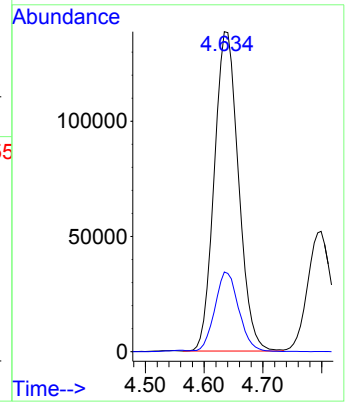
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

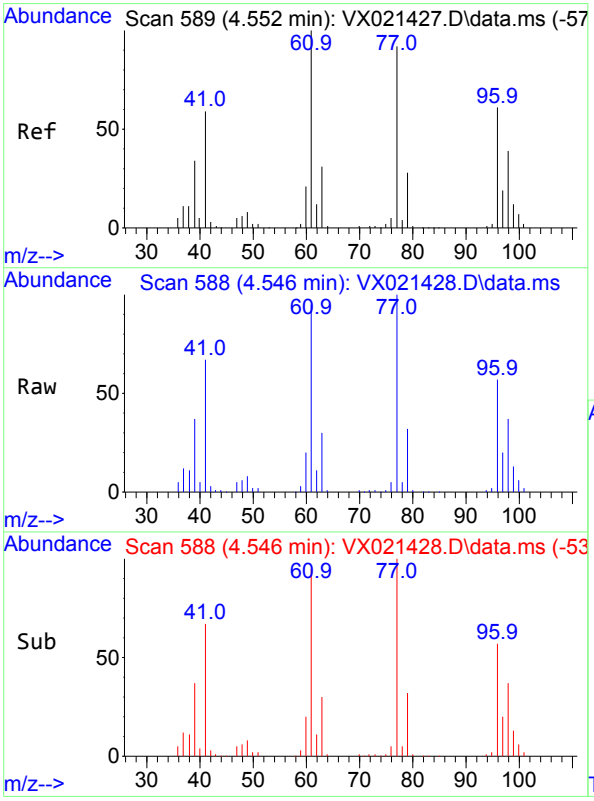


#25
2-Butanone
Concen: 541.52 ug/l
RT: 4.634 min Scan# 603
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 43 Resp: 397210

Ion	Ratio	Lower	Upper
43	100		
72	24.9	23.7	35.5

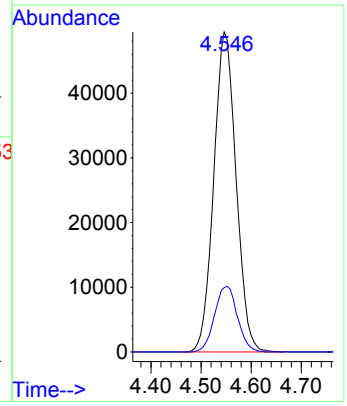




#26
2,2-Dichloropropane
Concen: 102.53 ug/l
RT: 4.546 min Scan# 588
Delta R.T. -0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

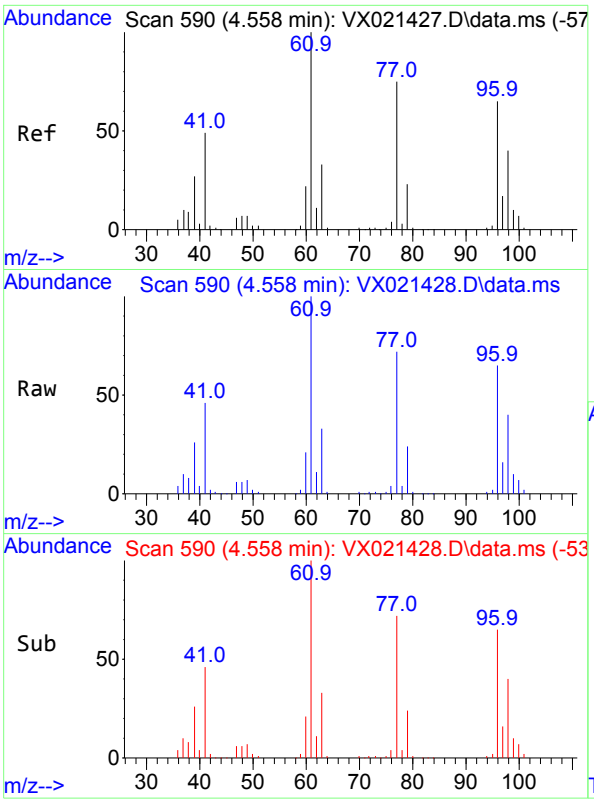
Tgt Ion: 77 Resp: 152762

Ion	Ratio	Lower	Upper
77	100		
97	21.0	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

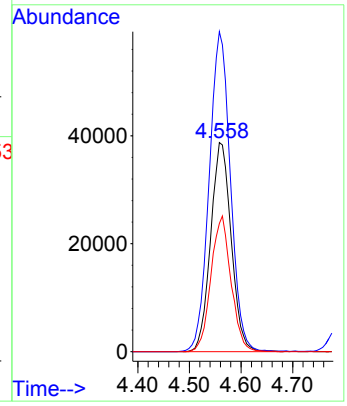
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

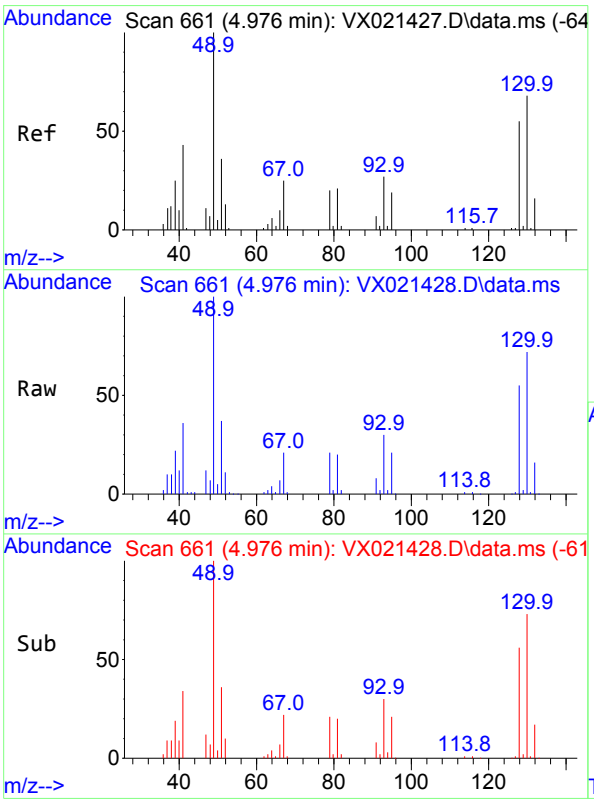


#27
cis-1,2-Dichloroethene
Concen: 104.13 ug/l
RT: 4.558 min Scan# 590
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 96 Resp: 107096

Ion	Ratio	Lower	Upper
96	100		
61	157.6	0.0	285.6
98	63.3	0.0	129.6

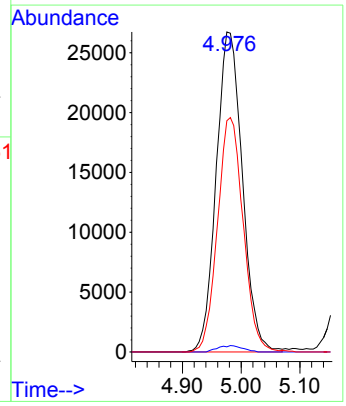




#28
Bromochloromethane
Concen: 102.26 ug/l
RT: 4.976 min Scan# 661
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

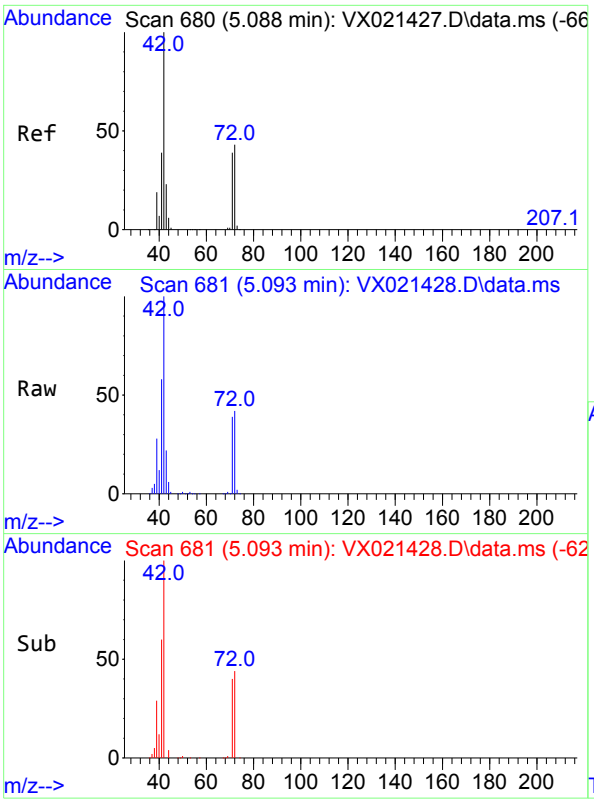
Tgt Ion: 49 Resp: 82676

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	71.9	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

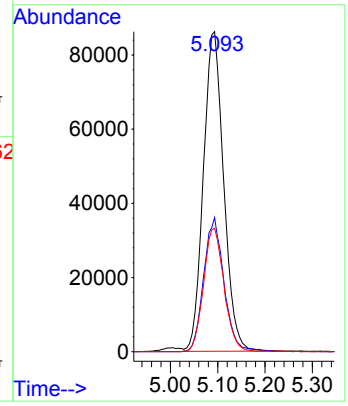
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

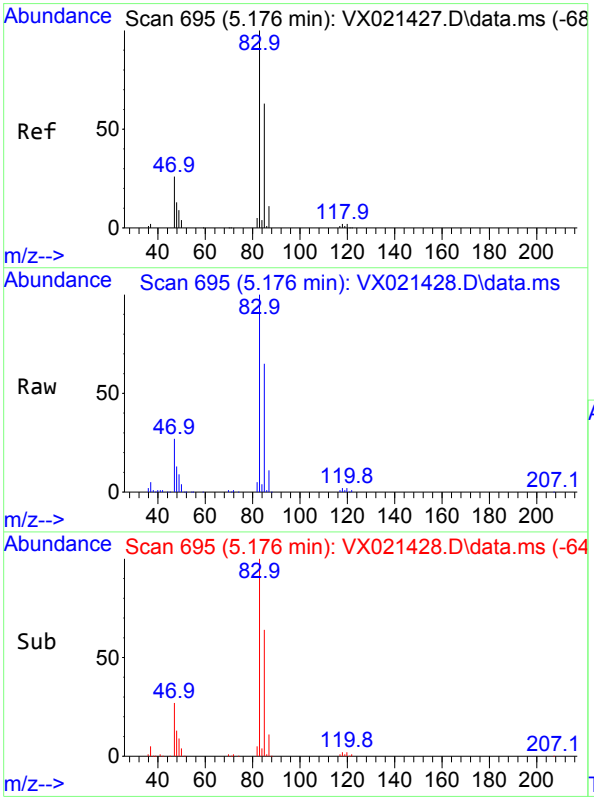


#29
Tetrahydrofuran
Concen: 530.35 ug/l
RT: 5.093 min Scan# 681
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 42 Resp: 256372

Ion	Ratio	Lower	Upper
42	100		
72	42.0	41.7	62.5
71	39.2	38.4	57.6

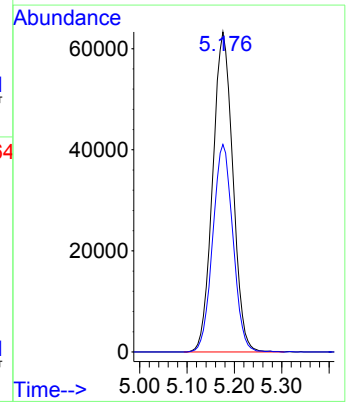




#30
Chloroform
Concen: 105.04 ug/l
RT: 5.176 min Scan# 695
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

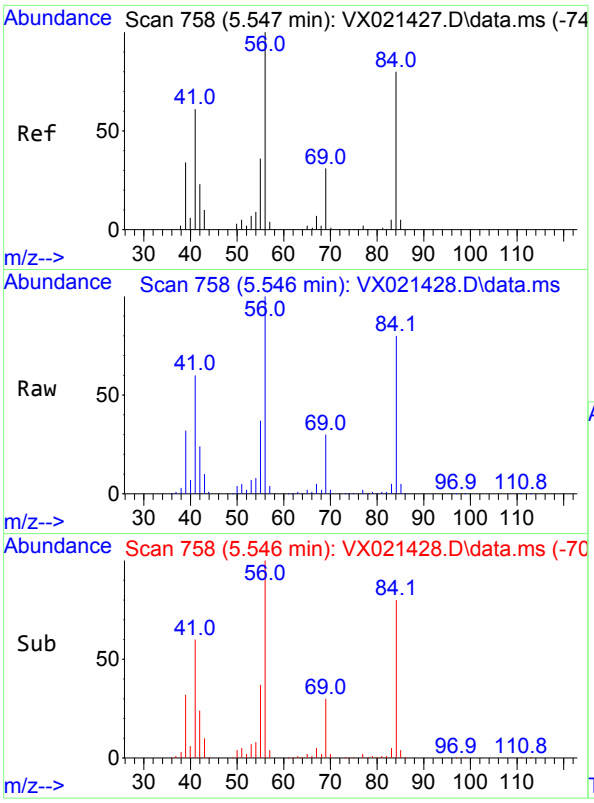
Tgt Ion: 83 Resp: 187353

Ion	Ratio	Lower	Upper
83	100		
85	64.8	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

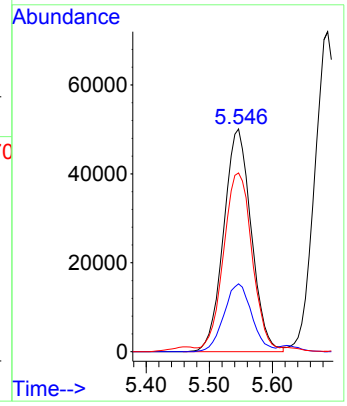
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

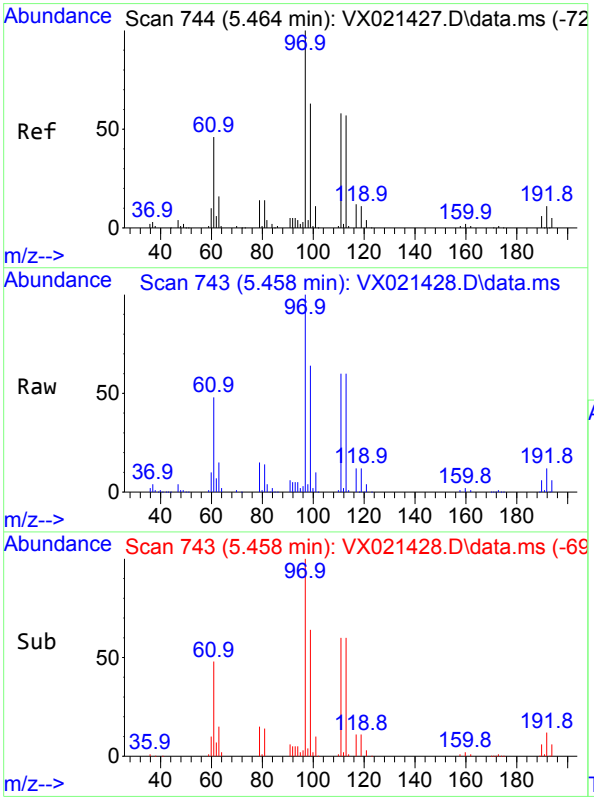


#31
Cyclohexane
Concen: 98.47 ug/l
RT: 5.546 min Scan# 758
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 56 Resp: 152110

Ion	Ratio	Lower	Upper
56	100		
69	30.5	25.3	37.9
84	78.2	71.4	107.0

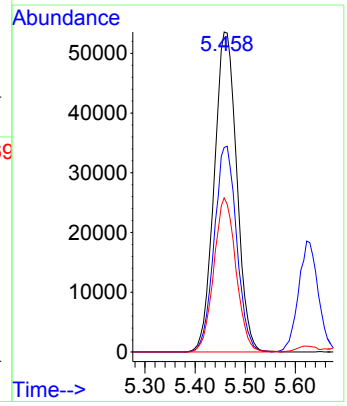




#32
1,1,1-Trichloroethane
Concen: 105.72 ug/l
RT: 5.458 min Scan# 743
Delta R.T. -0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

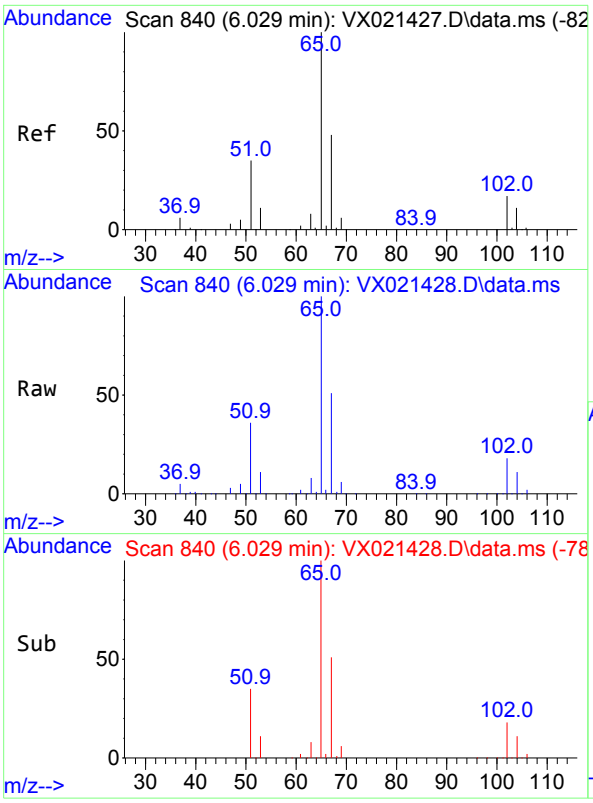
Tgt Ion: 97 Resp: 167161

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.5	77.3
61	47.3	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

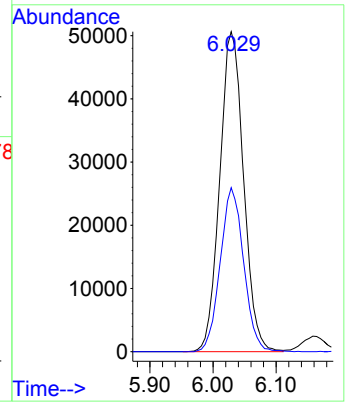
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

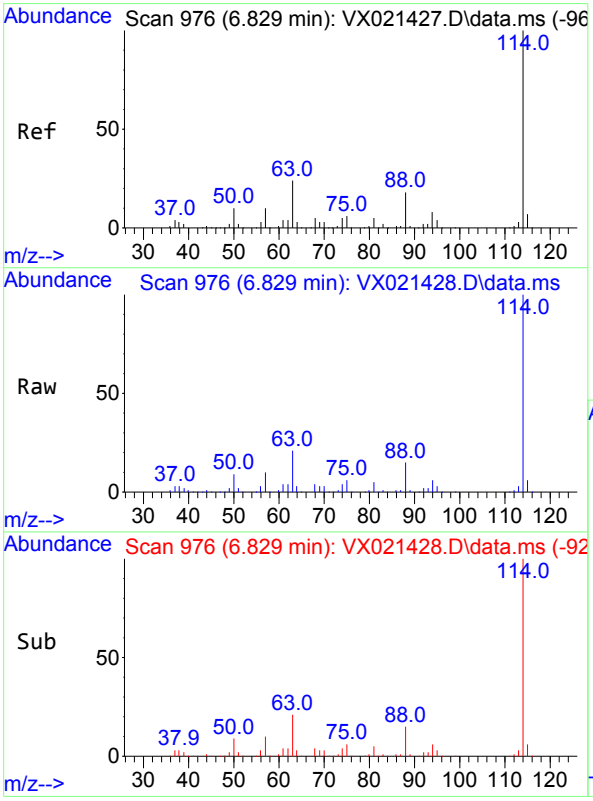


#33
1,2-Dichloroethane-d4
Concen: 102.58 ug/l
RT: 6.029 min Scan# 840
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 65 Resp: 132636

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	105.4

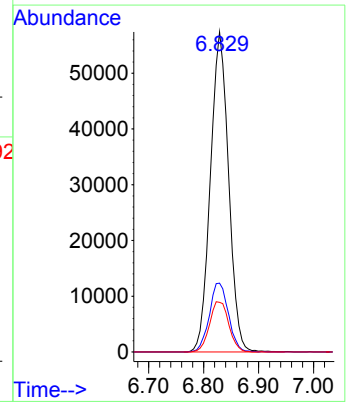




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

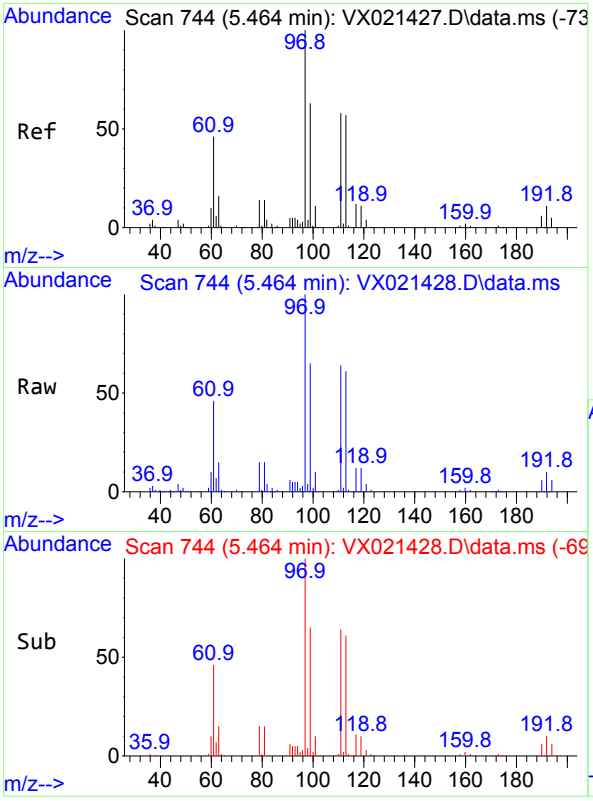
Tgt Ion:114 Resp: 131882

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	40.8
88	15.5	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

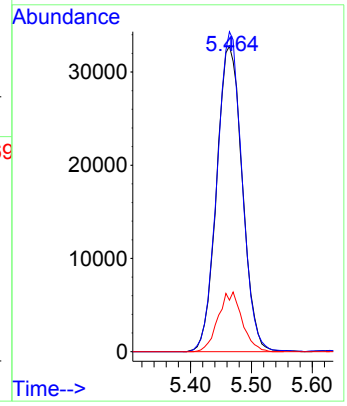
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

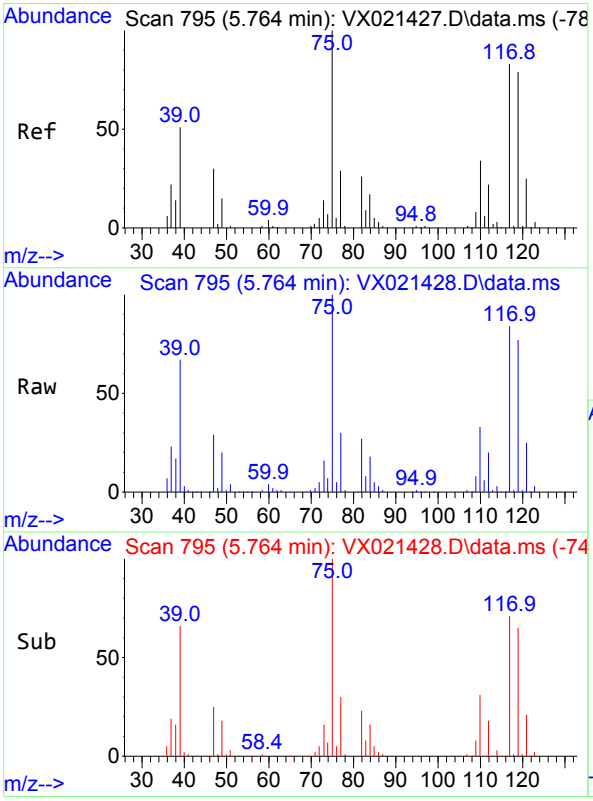


#35
Dibromofluoromethane
Concen: 106.75 ug/l
RT: 5.464 min Scan# 744
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:113 Resp: 95971

Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.9	122.9
192	18.2	16.7	25.1

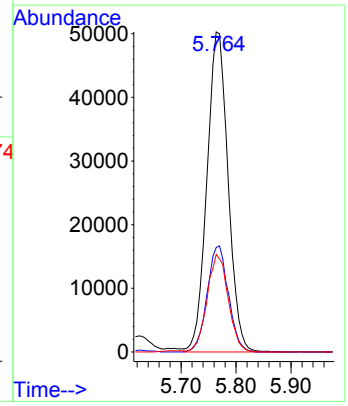




#36
1,1-Dichloropropene
Concen: 101.53 ug/l
RT: 5.764 min Scan# 795
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

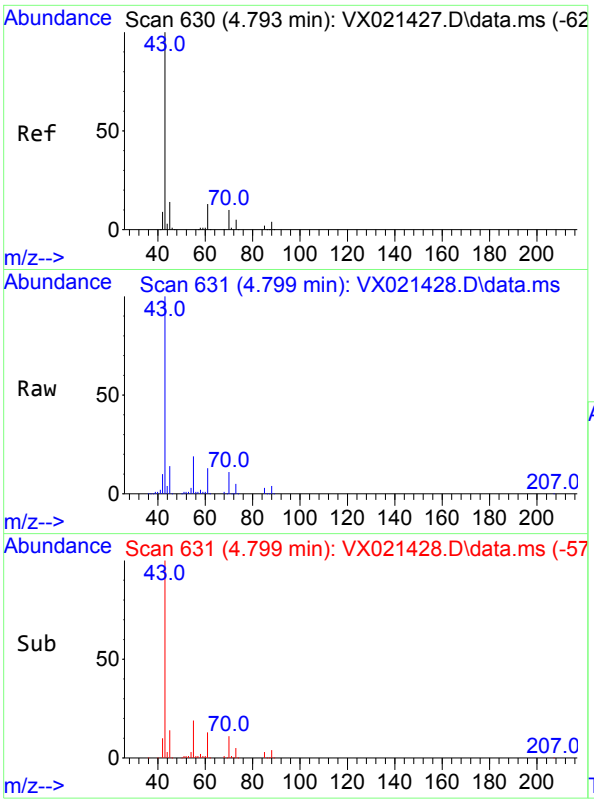
Tgt Ion: 75 Resp: 134298

Ion	Ratio	Lower	Upper
75	100		
110	33.2	18.1	54.4
77	30.5	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

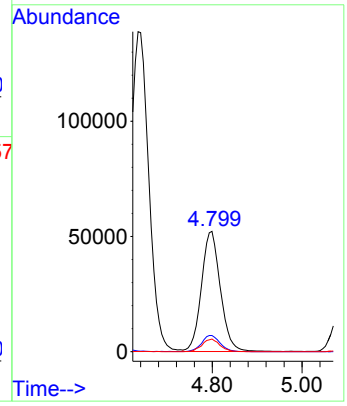
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

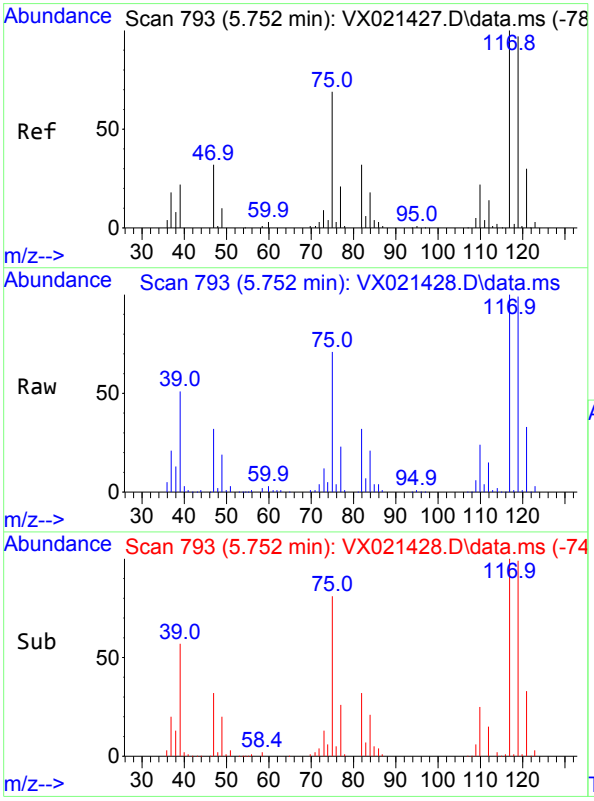


#37
Ethyl Acetate
Concen: 99.81 ug/l
RT: 4.799 min Scan# 631
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 43 Resp: 152631

Ion	Ratio	Lower	Upper
43	100		
61	13.3	12.8	19.2
70	9.9	10.5	15.7#

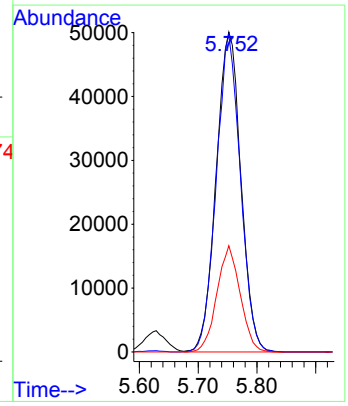




#38
Carbon Tetrachloride
Concen: 106.25 ug/l
RT: 5.752 min Scan# 793
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

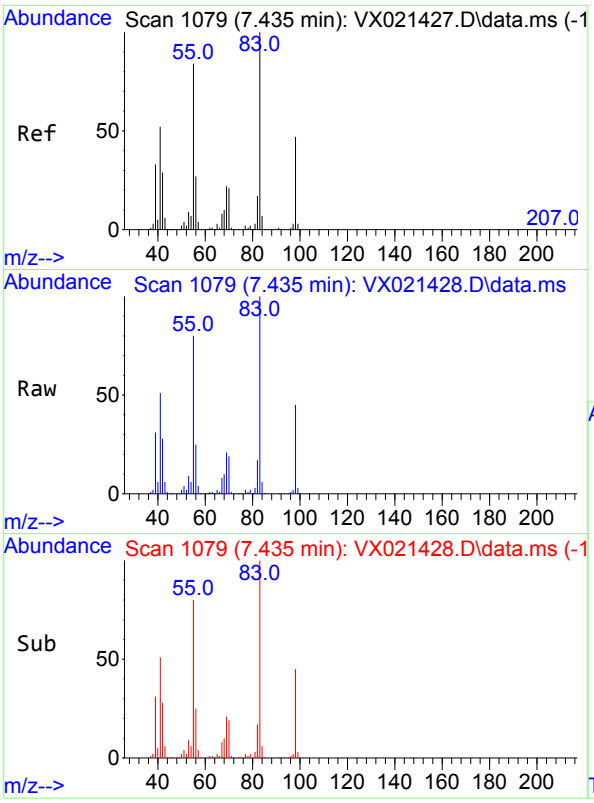
Tgt Ion:117 Resp: 146353

Ion	Ratio	Lower	Upper
117	100		
119	99.2	76.2	114.2
121	33.2	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

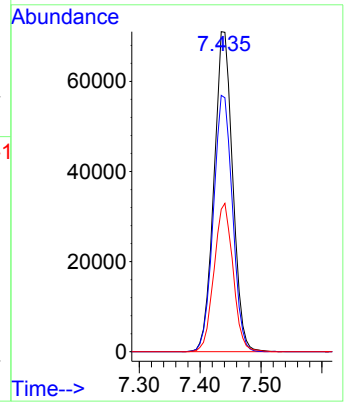
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

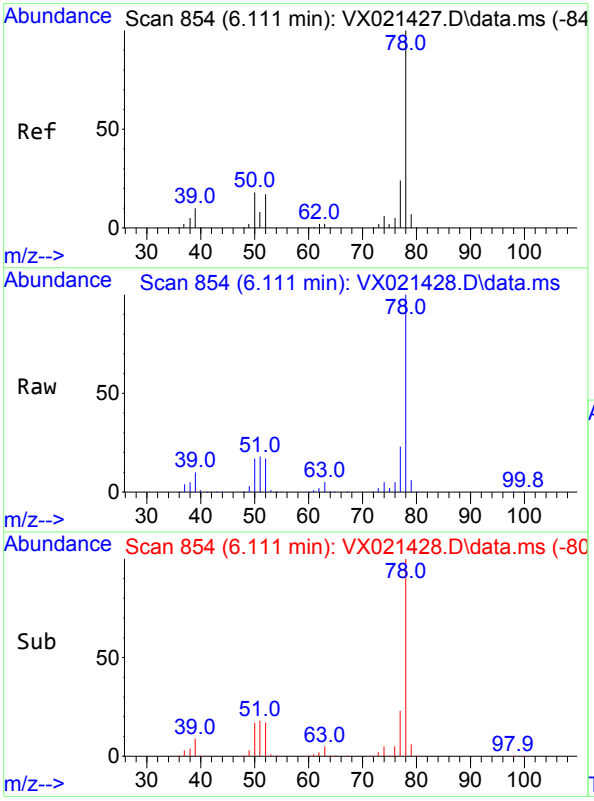


#39
Methylcyclohexane
Concen: 103.34 ug/l
RT: 7.435 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 83 Resp: 151837

Ion	Ratio	Lower	Upper
83	100		
55	80.1	58.9	88.3
98	44.5	38.1	57.1

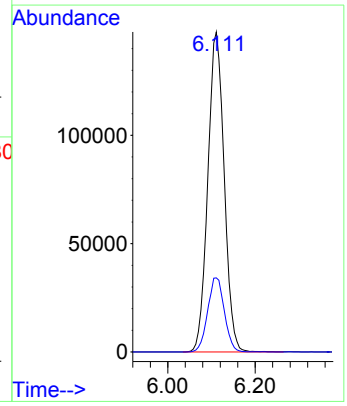




#40
Benzene
Concen: 105.33 ug/l
RT: 6.111 min Scan# 854
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

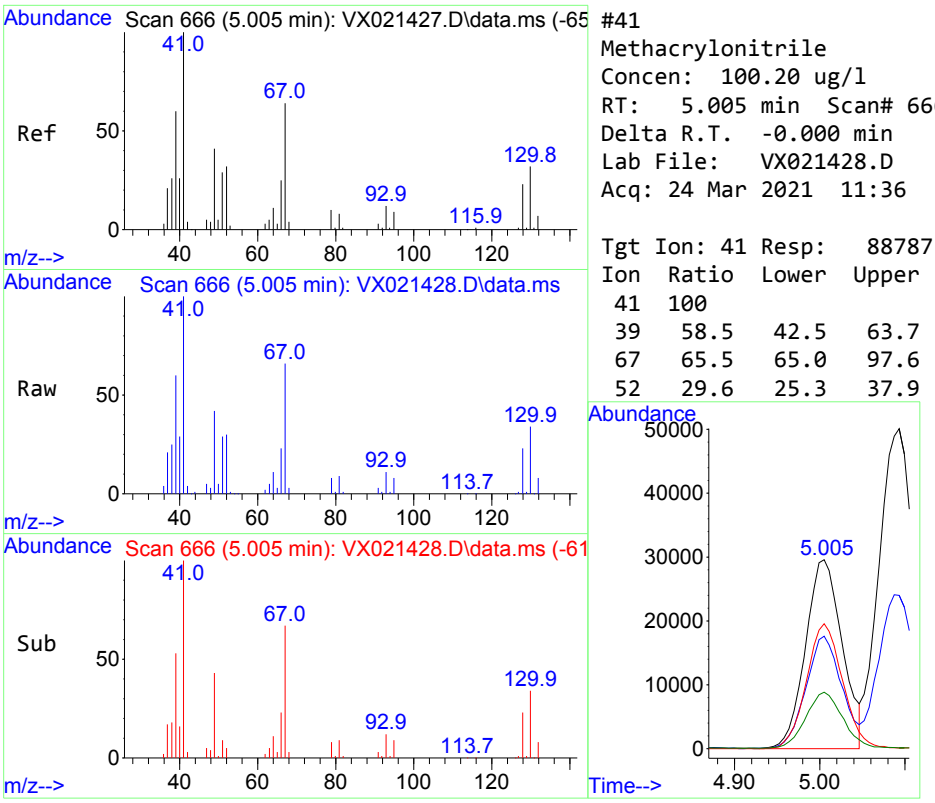
Tgt Ion: 78 Resp: 384675

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

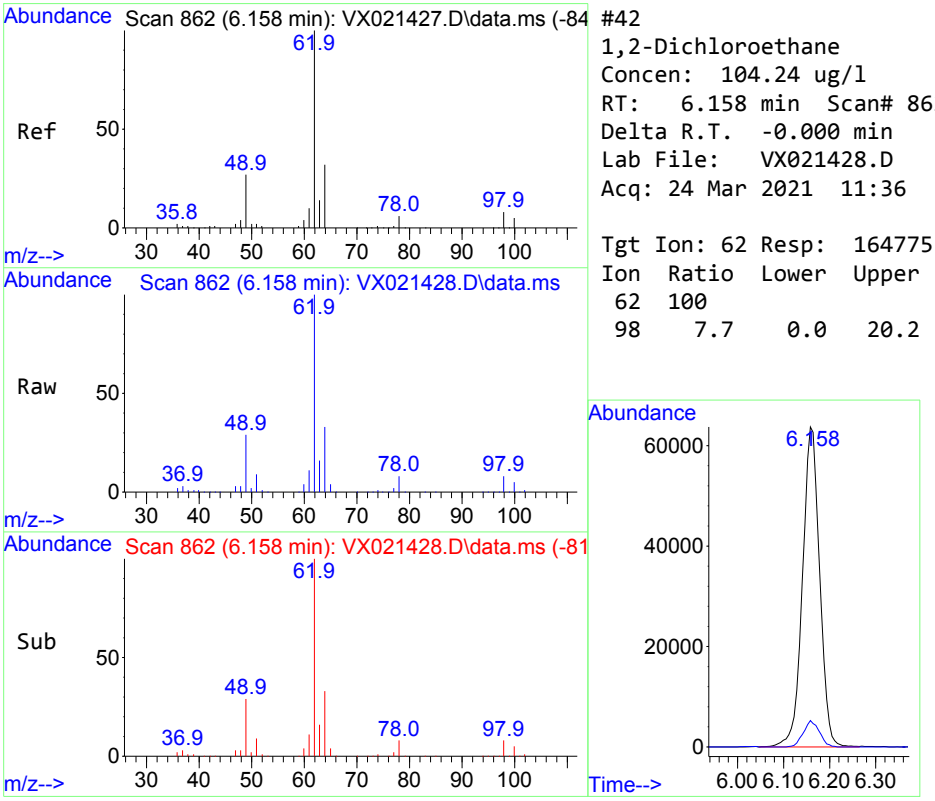
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM



#41
Methacrylonitrile
Concen: 100.20 ug/l
RT: 5.005 min Scan# 666
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 41 Resp: 88787

Ion	Ratio	Lower	Upper
41	100		
39	58.5	42.5	63.7
67	65.5	65.0	97.6
52	29.6	25.3	37.9



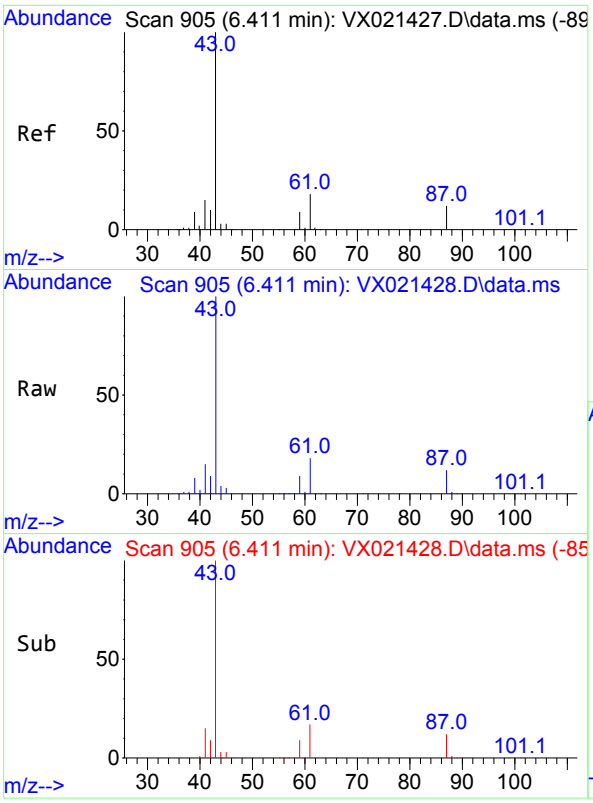
#42
1,2-Dichloroethane
Concen: 104.24 ug/l
RT: 6.158 min Scan# 862
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 62 Resp: 164775

Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	20.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

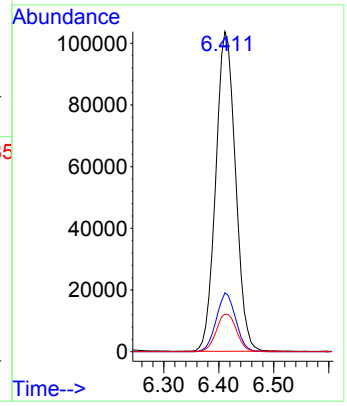
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

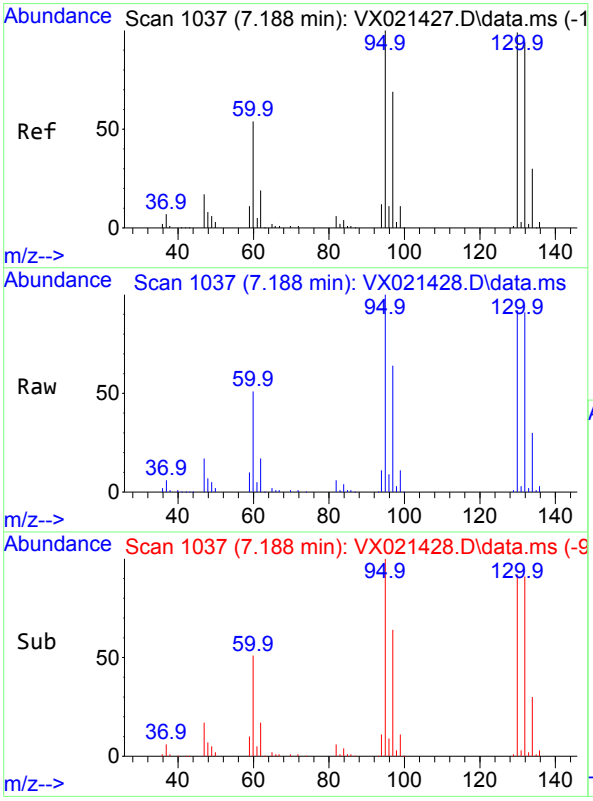


#43
Isopropyl Acetate
Concen: 103.35 ug/l
RT: 6.411 min Scan# 905
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 43 Resp: 259301

Ion	Ratio	Lower	Upper
43	100		
61	18.1	18.2	27.4#
87	12.1	12.5	18.7#

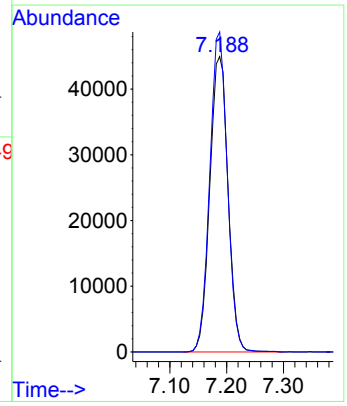




#44
Trichloroethene
Concen: 103.11 ug/l
RT: 7.188 min Scan# 1037
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

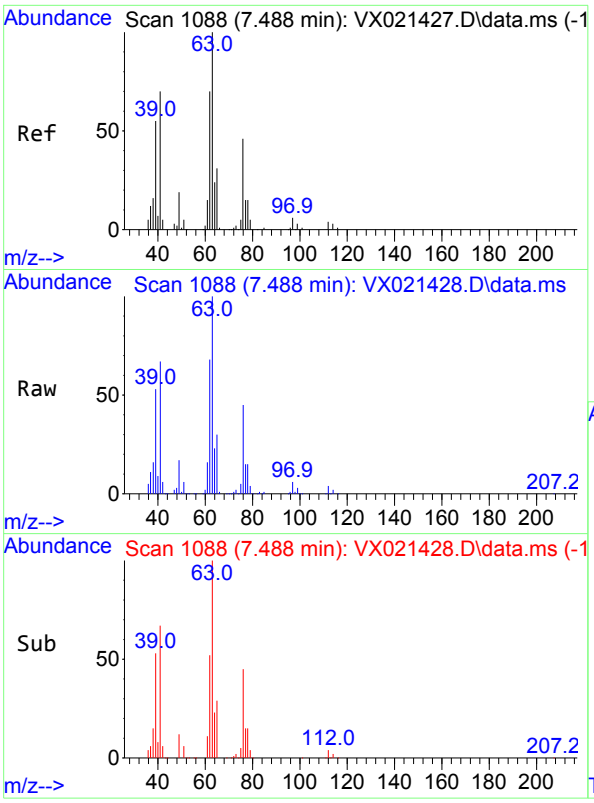
Tgt Ion:130 Resp: 99940

Ion	Ratio	Lower	Upper
130	100		
95	108.3	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

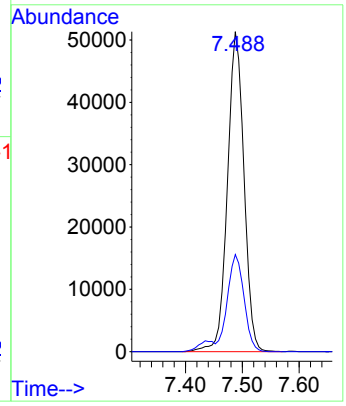
Manual Integrations APPROVED
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3/25/2021 9:49:35 AM

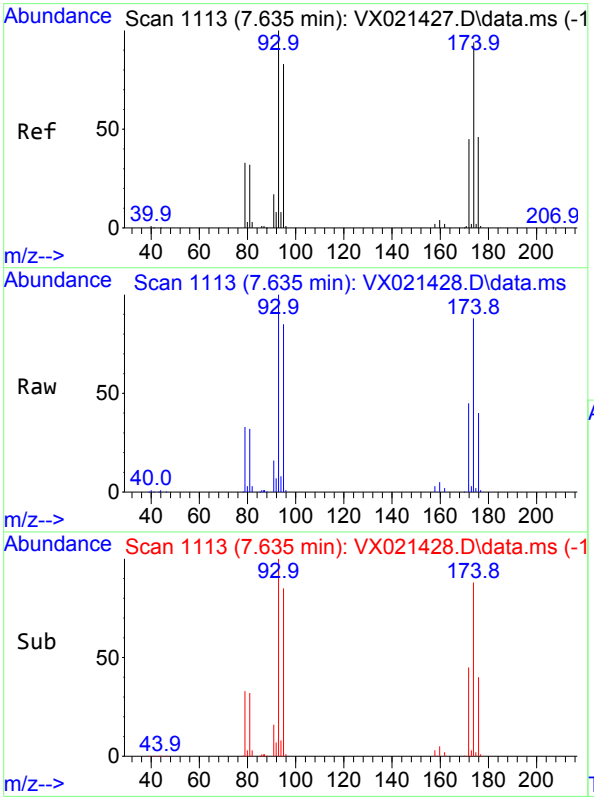


#45
1,2-Dichloropropane
Concen: 105.72 ug/l
RT: 7.488 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 63 Resp: 103968

Ion	Ratio	Lower	Upper
63	100		
65	30.4	25.7	38.5

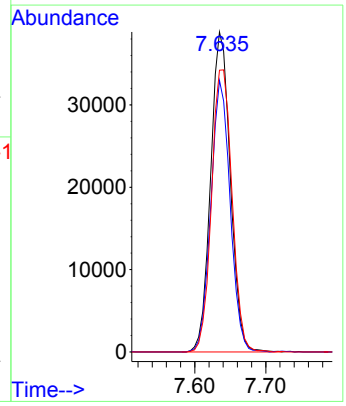




#46
Dibromomethane
Concen: 104.11 ug/l
RT: 7.635 min Scan# 1113
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

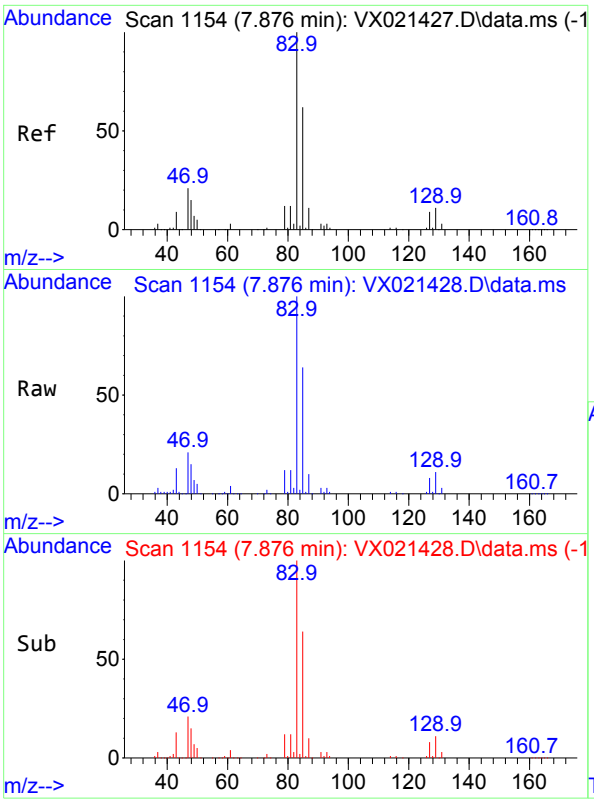
Tgt Ion: 93 Resp: 75136

Ion	Ratio	Lower	Upper
93	100		
95	83.0	66.8	100.2
174	91.6	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

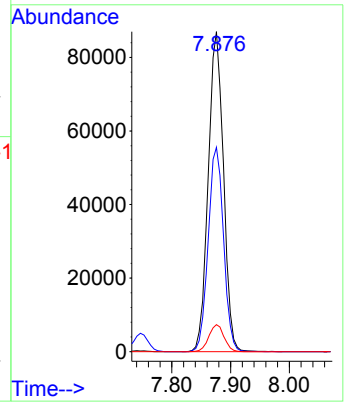
Manual Integrations APPROVED
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3/25/2021 9:49:35 AM

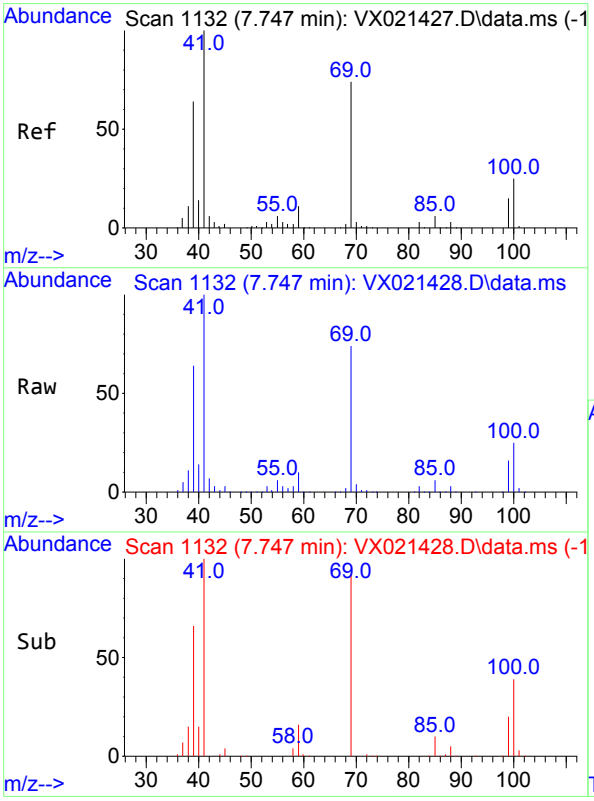


#47
Bromodichloromethane
Concen: 108.46 ug/l
RT: 7.876 min Scan# 1154
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 83 Resp: 156643

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.4	77.0
127	8.4	6.8	10.2

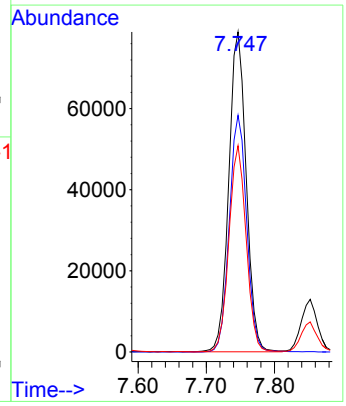




#48
Methyl methacrylate
Concen: 104.62 ug/l
RT: 7.747 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

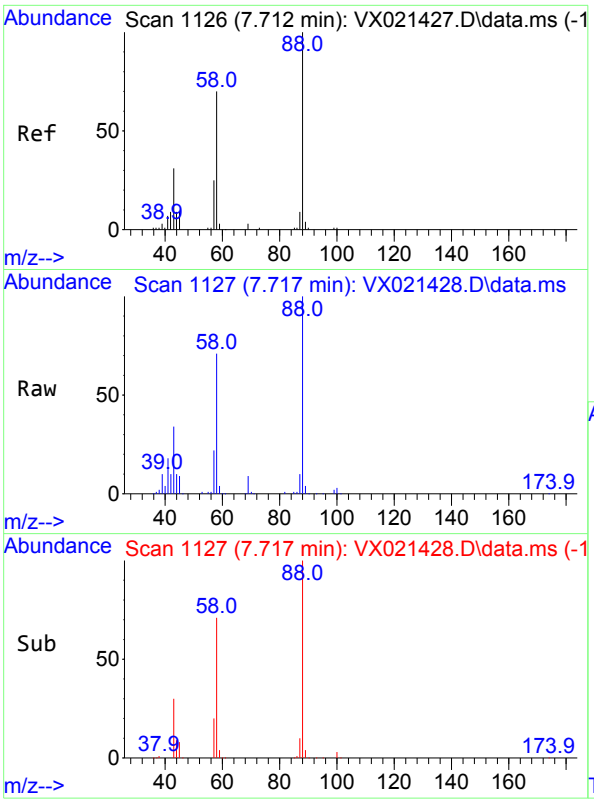
Tgt Ion: 41 Resp: 140030

Ion	Ratio	Lower	Upper
41	100		
69	74.1	76.0	114.0#
39	63.9	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

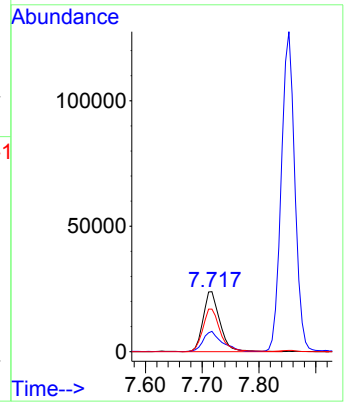
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

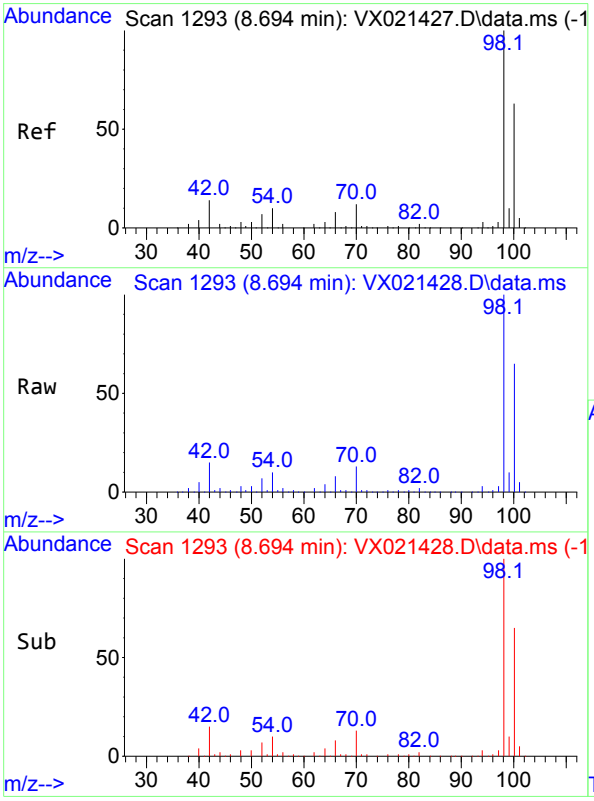


#49
1,4-Dioxane
Concen: 1968.00 ug/l
RT: 7.717 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 88 Resp: 48852

Ion	Ratio	Lower	Upper
88	100		
43	38.1	23.2	34.8#
58	74.3	55.0	82.4

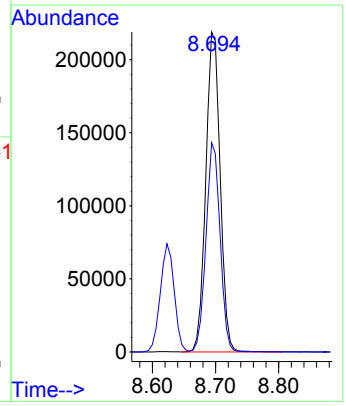




#50
Toluene-d8
Concen: 105.86 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

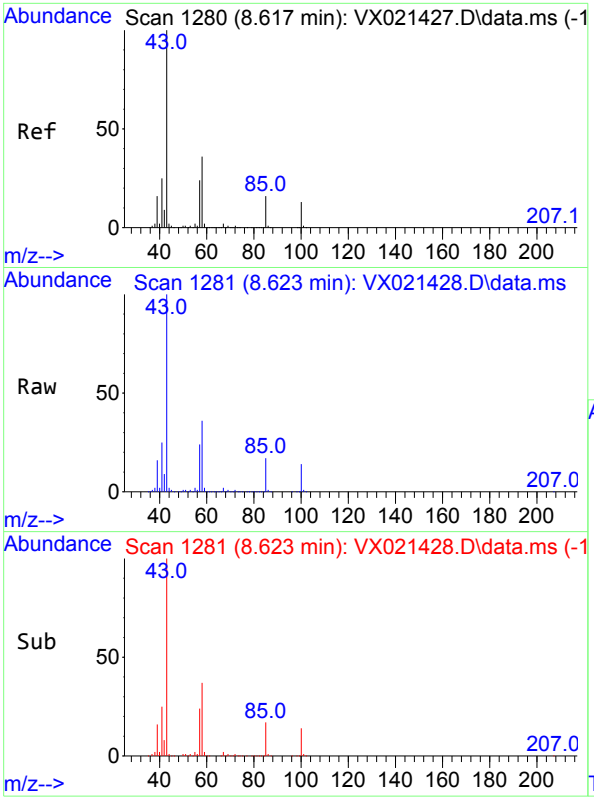
Tgt Ion: 98 Resp: 346837

Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

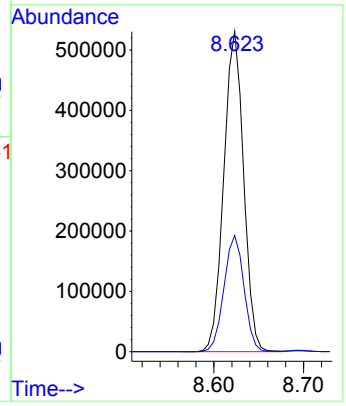
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

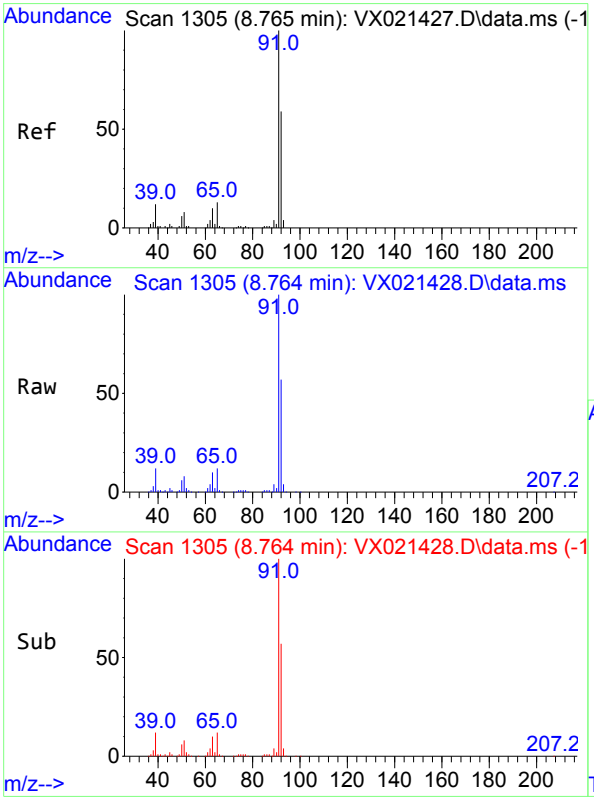


#51
4-Methyl-2-Pentanone
Concen: 552.94 ug/l
RT: 8.623 min Scan# 1281
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 43 Resp: 815042

Ion	Ratio	Lower	Upper
43	100		
58	36.6	35.4	53.0

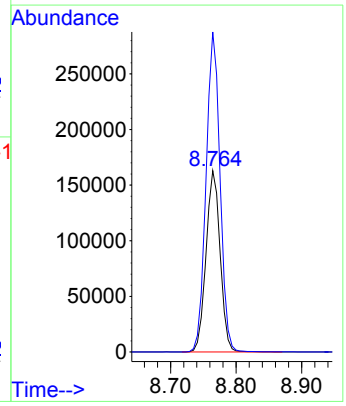




#52
Toluene
Concen: 107.96 ug/l
RT: 8.764 min Scan# 1305
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

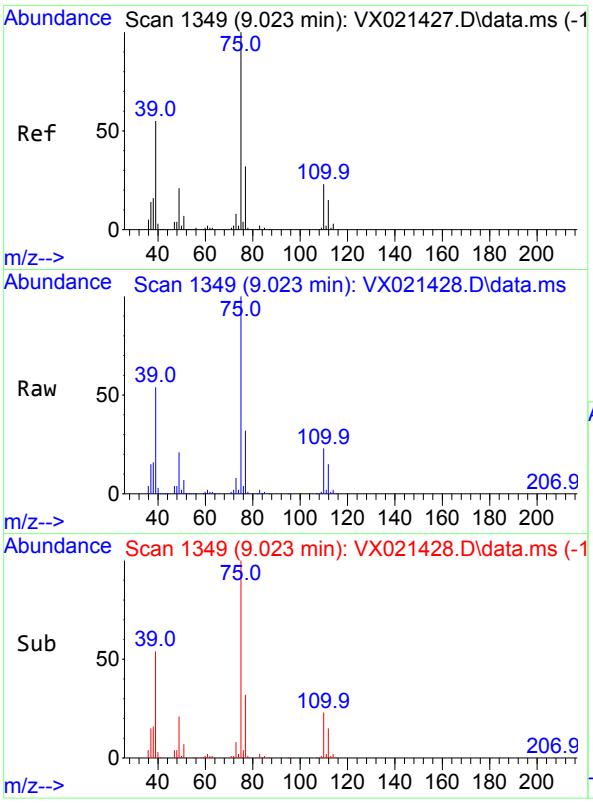
Tgt Ion: 92 Resp: 244057

Ion	Ratio	Lower	Upper
92	100		
91	175.1	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

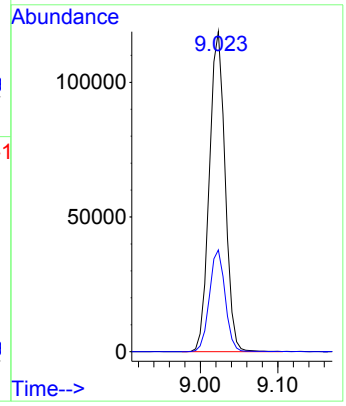
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

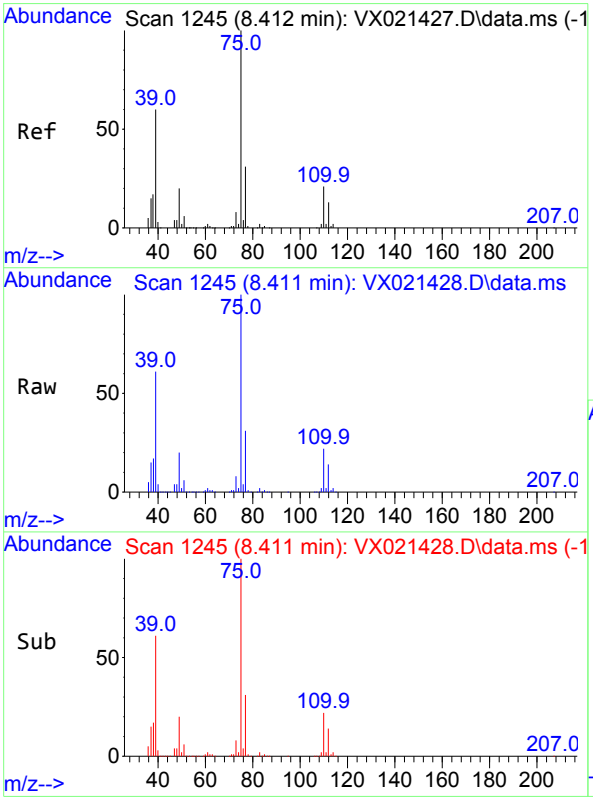


#53
t-1,3-Dichloropropene
Concen: 109.99 ug/l
RT: 9.023 min Scan# 1349
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 75 Resp: 168002

Ion	Ratio	Lower	Upper
75	100		
77	31.8	24.9	37.3

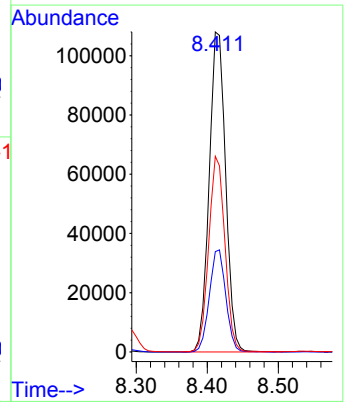




#54
cis-1,3-Dichloropropene
Concen: 107.20 ug/l
RT: 8.411 min Scan# 1245
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

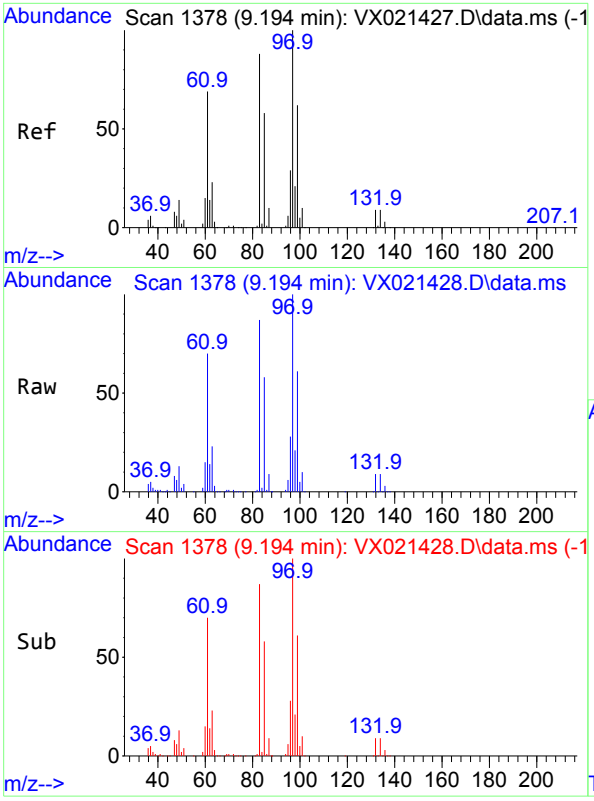
Tgt Ion: 75 Resp: 174335

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.7	38.5
39	61.1	35.1	52.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

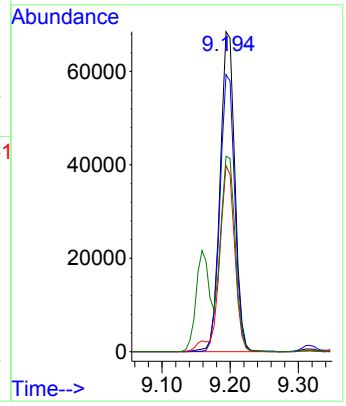
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

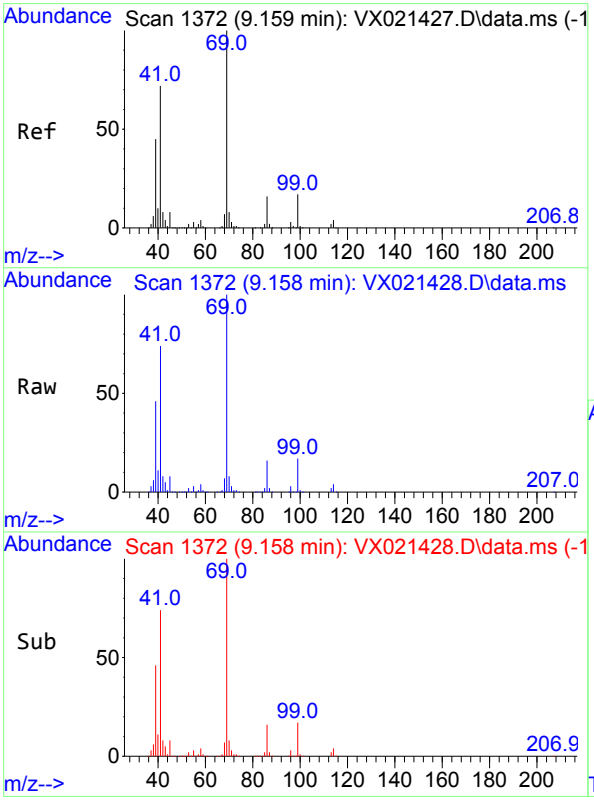


#55
1,1,2-Trichloroethane
Concen: 110.93 ug/l
RT: 9.194 min Scan# 1378
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 97 Resp: 103026

Ion	Ratio	Lower	Upper
97	100		
83	86.6	69.3	103.9
85	58.1	44.3	66.5
99	61.1	50.3	75.5

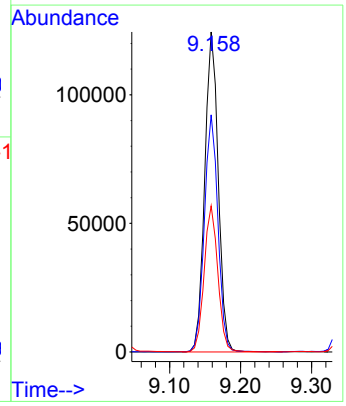




#56
Ethyl methacrylate
Concen: 111.07 ug/l
RT: 9.158 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

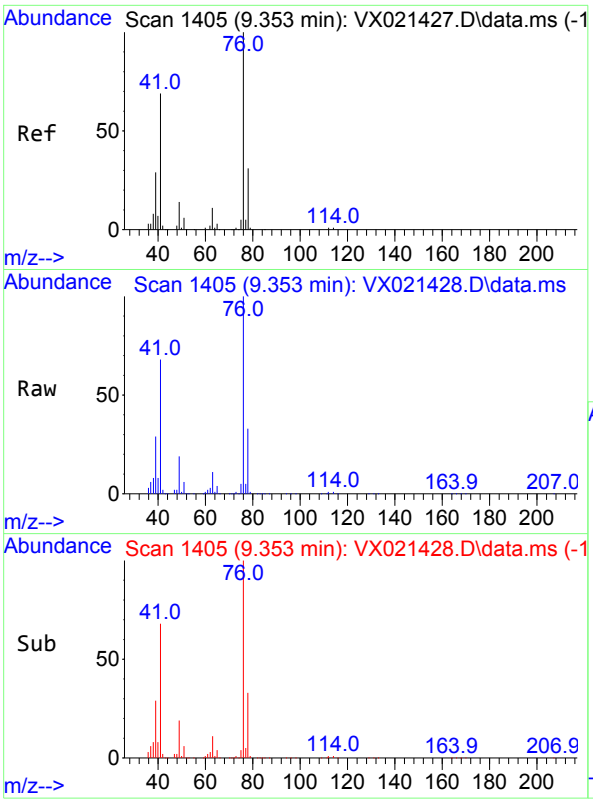
Tgt Ion: 69 Resp: 165184

Ion	Ratio	Lower	Upper
69	100		
41	74.5	46.8	70.2#
39	46.0	24.7	37.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

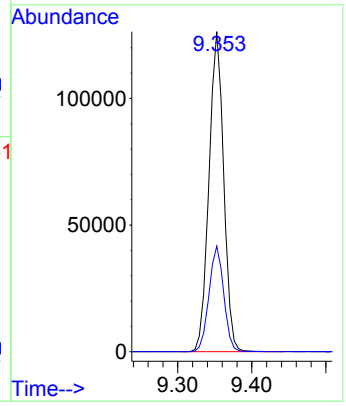
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

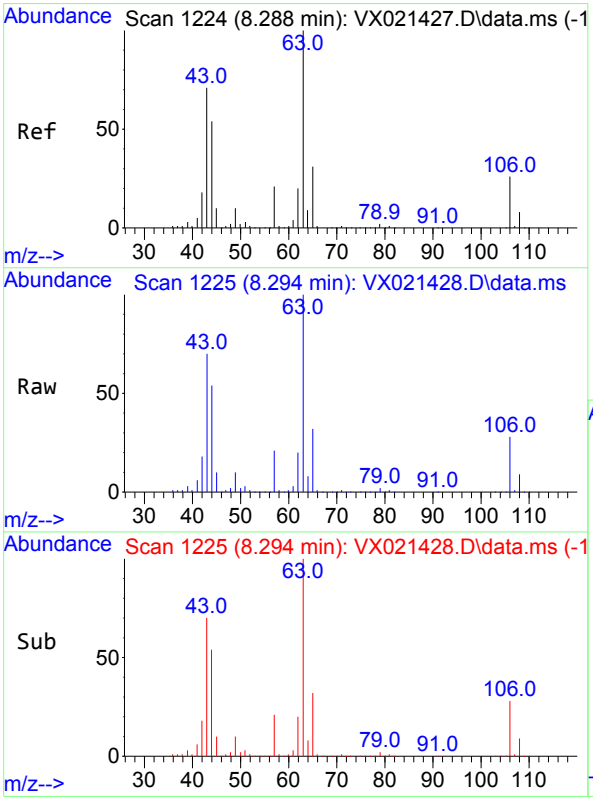


#57
1,3-Dichloropropane
Concen: 107.59 ug/l
RT: 9.353 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 76 Resp: 174019

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.2	39.2

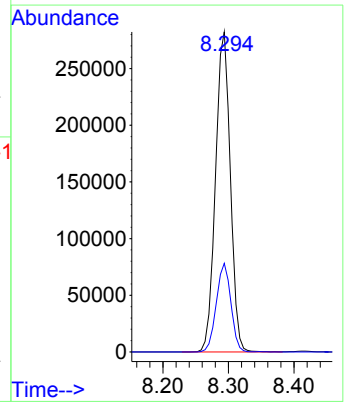




#58
2-Chloroethyl Vinyl ether
Concen: 539.07 ug/l
RT: 8.294 min Scan# 1225
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

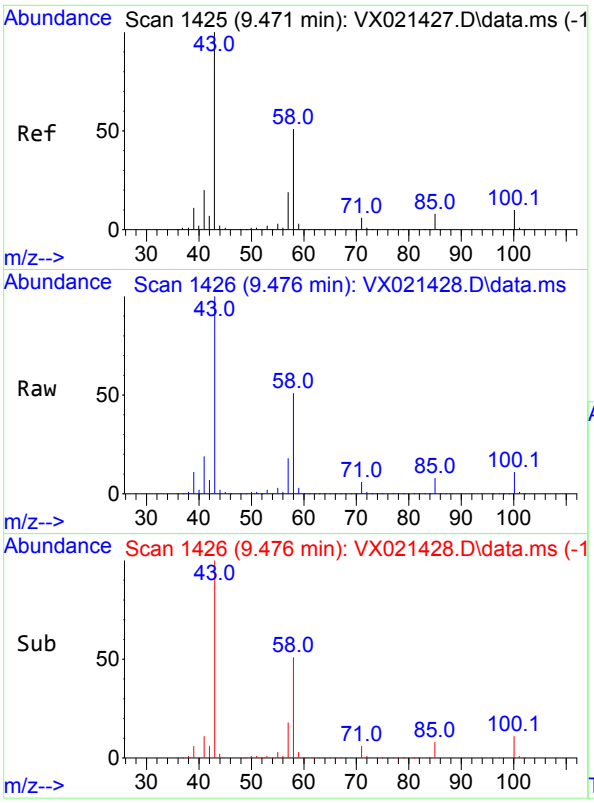
Tgt Ion: 63 Resp: 441623

Ion	Ratio	Lower	Upper
63	100		
106	27.3	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

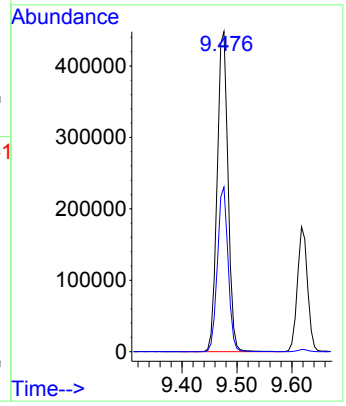
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

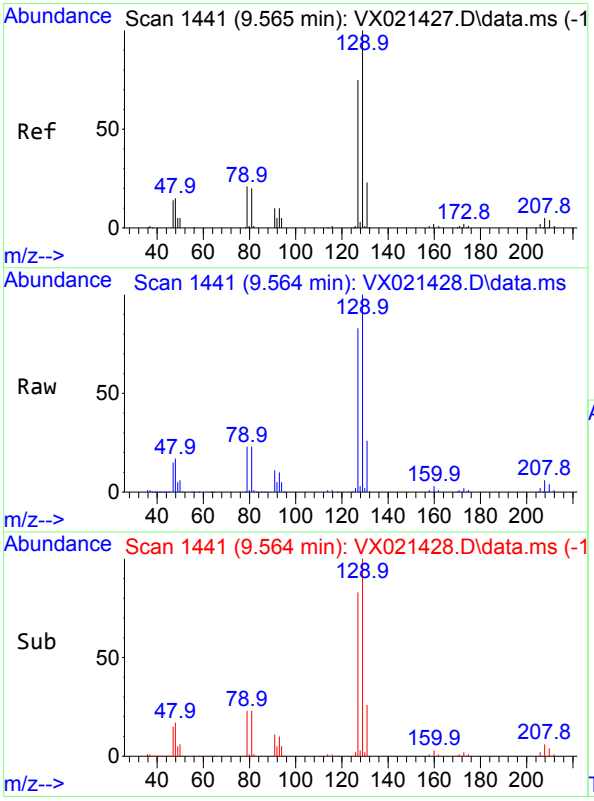


#59
2-Hexanone
Concen: 556.73 ug/l
RT: 9.476 min Scan# 1426
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 43 Resp: 613958

Ion	Ratio	Lower	Upper
43	100		
58	50.7	30.9	92.8

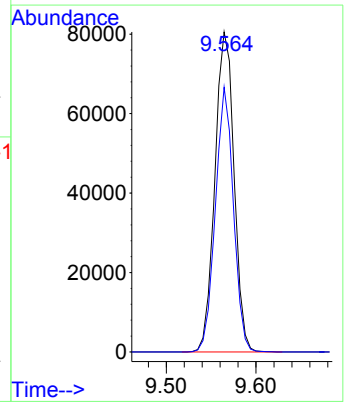




#60
Dibromochloromethane
Concen: 113.18 ug/l
RT: 9.564 min Scan# 1441
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

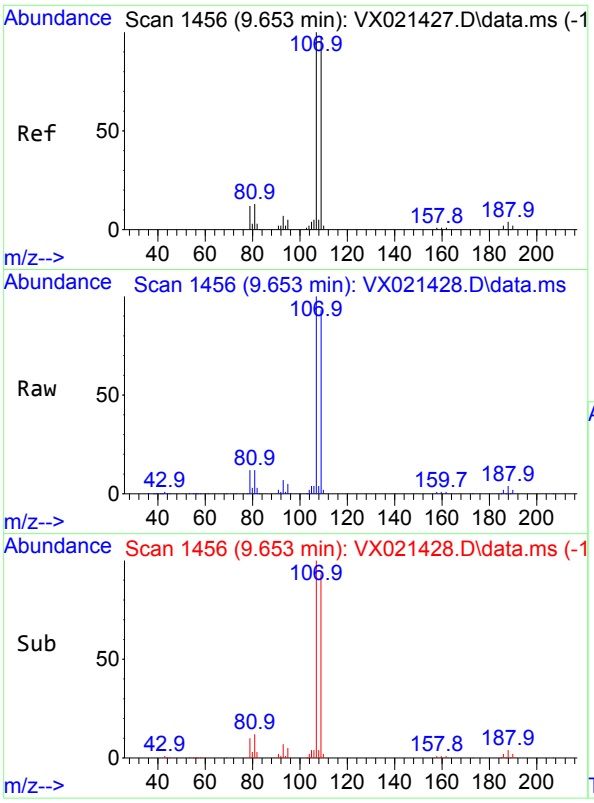
Tgt Ion:129 Resp: 119524

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

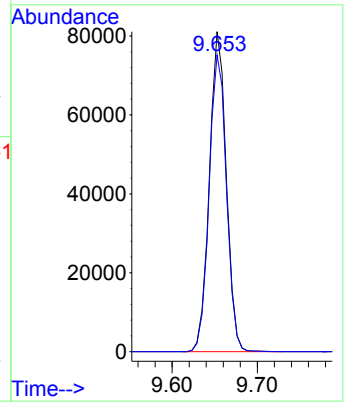
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

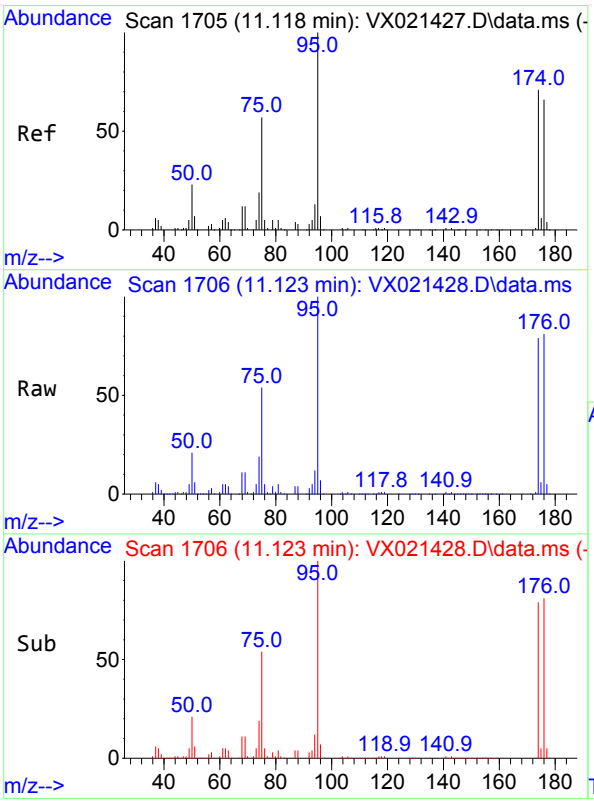


#61
1,2-Dibromoethane
Concen: 109.49 ug/l
RT: 9.653 min Scan# 1456
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:107 Resp: 111869

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.8	113.6

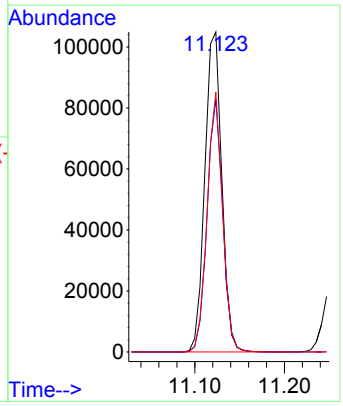




#62
4-Bromofluorobenzene
Concen: 108.54 ug/l
RT: 11.123 min Scan# 1706
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

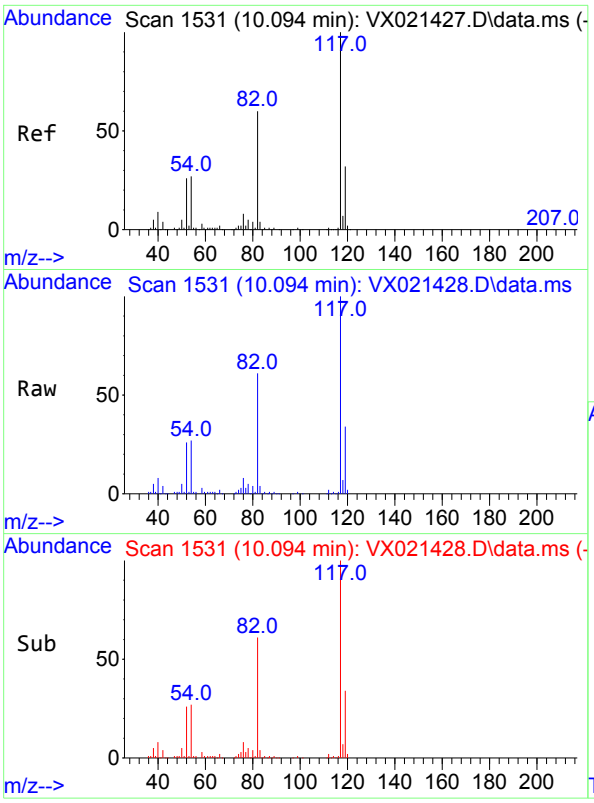
Tgt Ion: 95 Resp: 137381

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	154.6
176	73.9	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

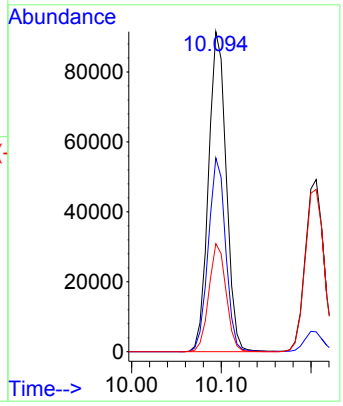
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

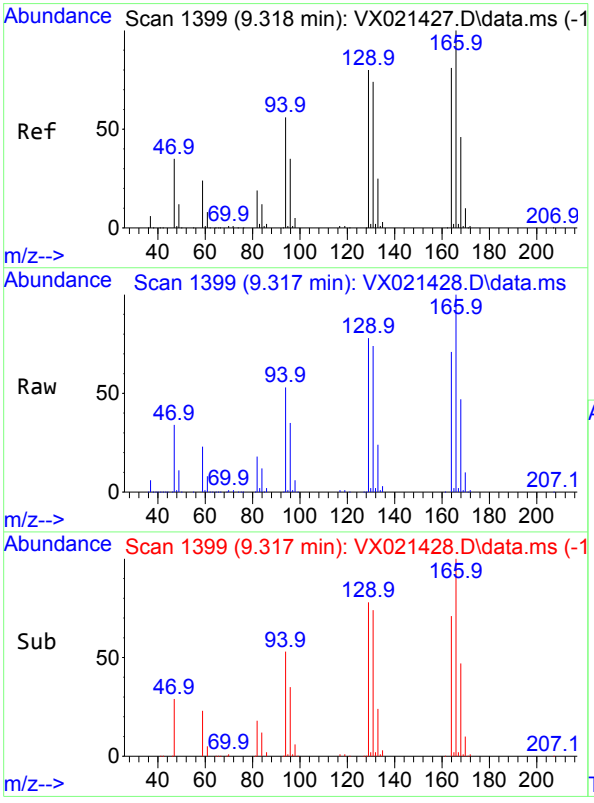


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:117 Resp: 125390

Ion	Ratio	Lower	Upper
117	100		
82	60.5	47.4	71.2
119	33.8	26.6	39.8

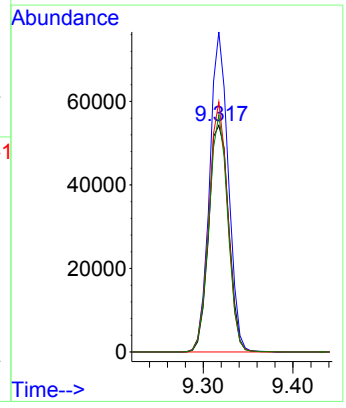




#64
Tetrachloroethene
Concen: 90.94 ug/l
RT: 9.317 min Scan# 1399
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

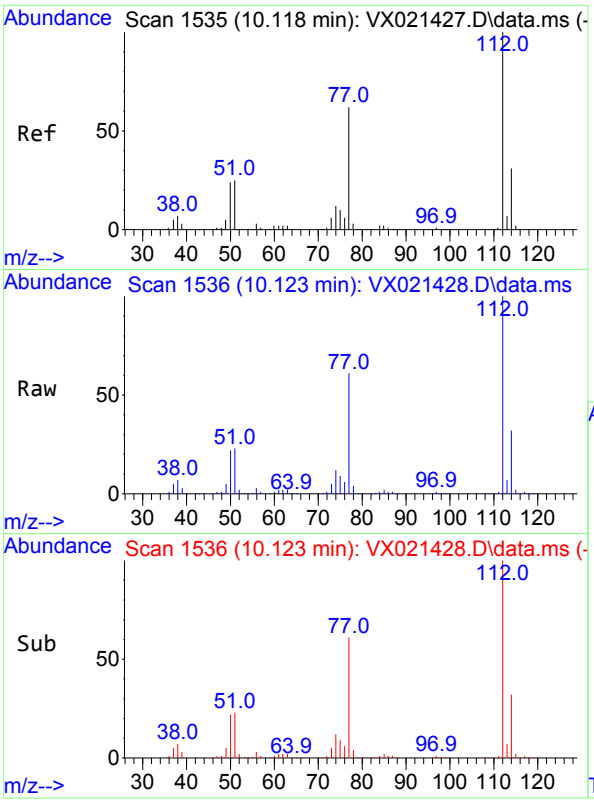
Tgt Ion:164 Resp: 84336

Ion	Ratio	Lower	Upper
164	100		
166	141.3	103.4	155.2
129	110.4	70.8	106.2#
131	104.7	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

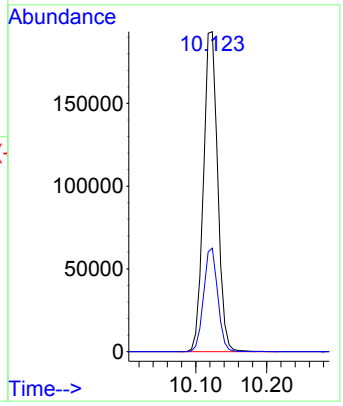
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

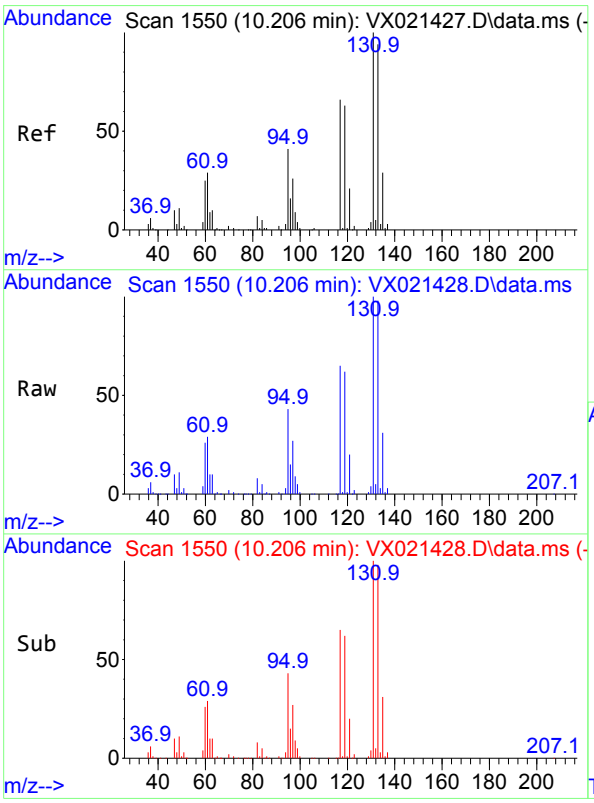


#65
Chlorobenzene
Concen: 104.49 ug/l
RT: 10.123 min Scan# 1536
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:112 Resp: 269584

Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.8	38.6

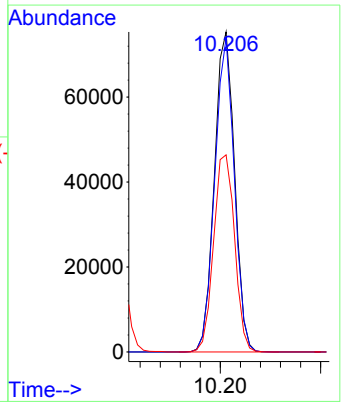




#66
1,1,1,2-Tetrachloroethane
Concen: 109.05 ug/l
RT: 10.206 min Scan# 1550
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

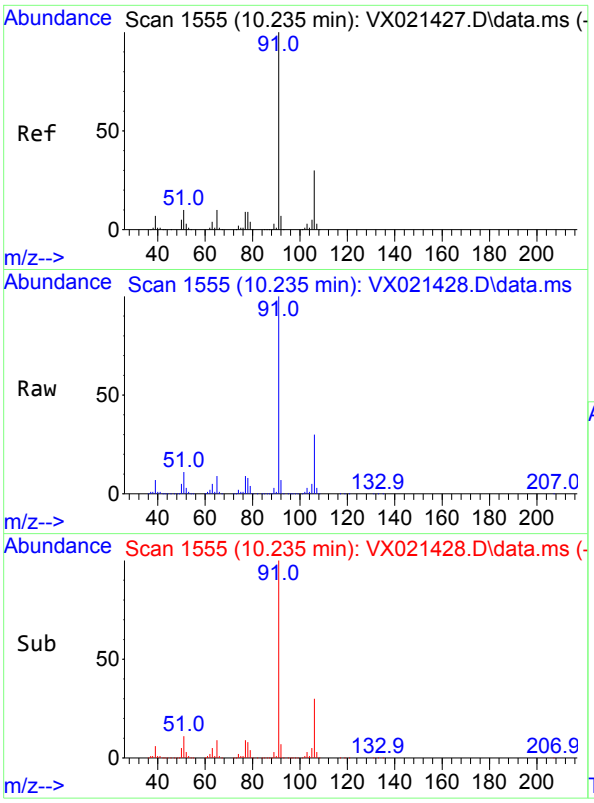
Tgt Ion:131 Resp: 104804

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.7	143.1
119	64.2	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

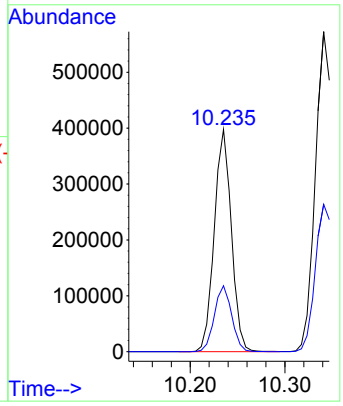
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

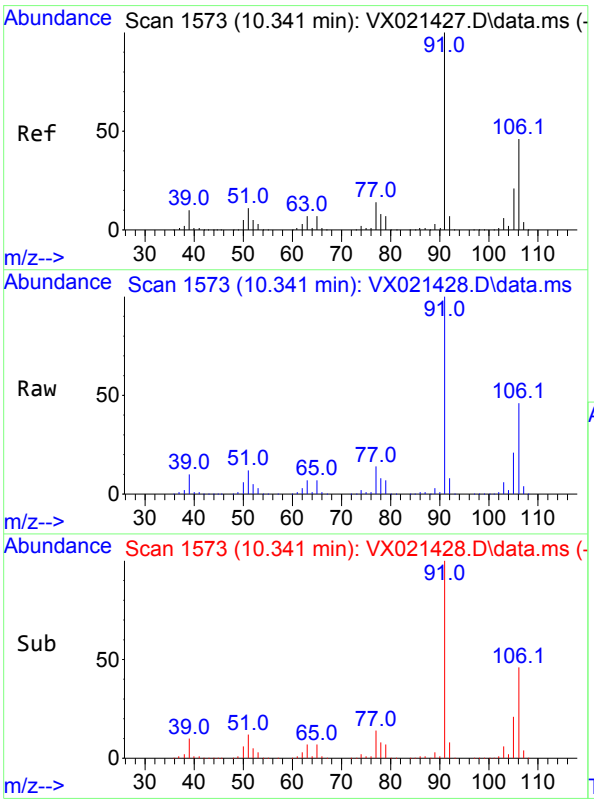


#67
Ethyl Benzene
Concen: 104.99 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 91 Resp: 498820

Ion	Ratio	Lower	Upper
91	100		
106	29.7	24.6	37.0

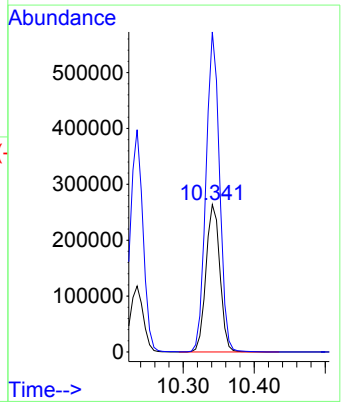




#68
m/p-Xylenes
Concen: 212.61 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

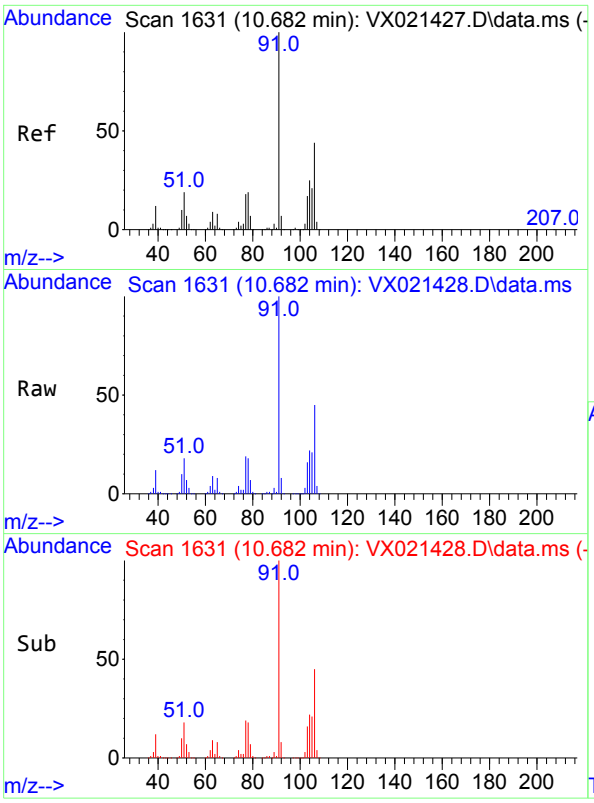
Tgt Ion:106 Resp: 360990

Ion	Ratio	Lower	Upper
106	100		
91	210.9	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

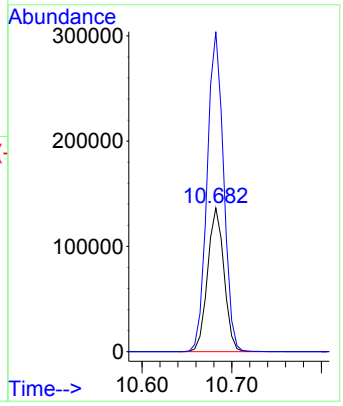
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

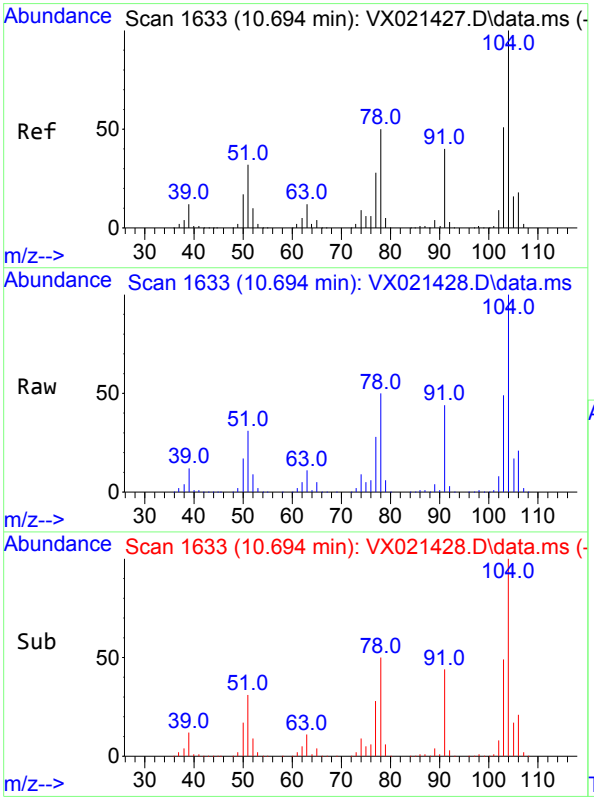


#69
o-Xylene
Concen: 105.06 ug/l
RT: 10.682 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:106 Resp: 173227

Ion	Ratio	Lower	Upper
106	100		
91	223.3	108.1	324.2

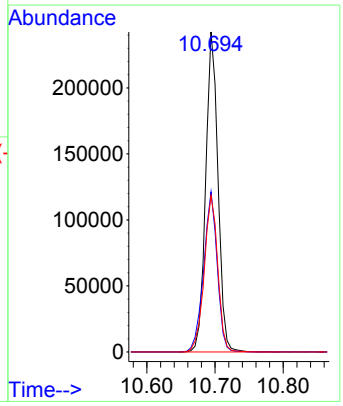




#70
Styrene
Concen: 109.55 ug/l
RT: 10.694 min Scan# 1633
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

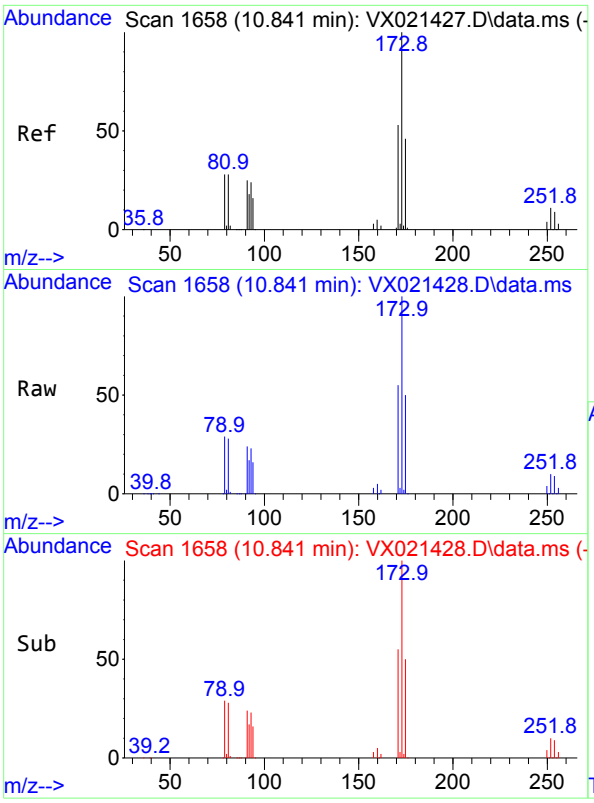
Tgt Ion:104 Resp: 304248

Ion	Ratio	Lower	Upper
104	100		
78	55.2	40.0	60.0
103	53.8	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

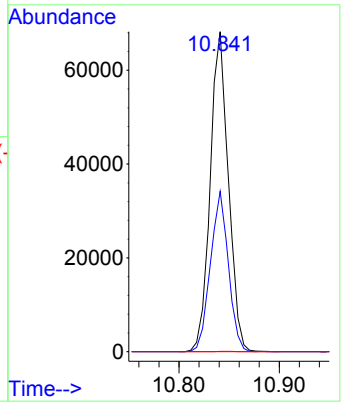
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

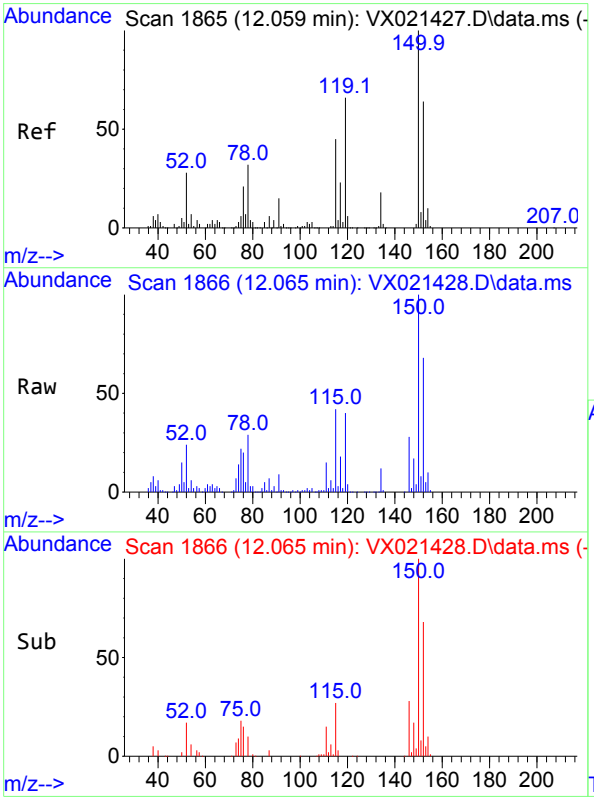


#71
Bromoform
Concen: 110.48 ug/l
RT: 10.841 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:173 Resp: 85567

Ion	Ratio	Lower	Upper
173	100		
175	49.5	23.9	71.8
254	0.1	0.1	0.1#

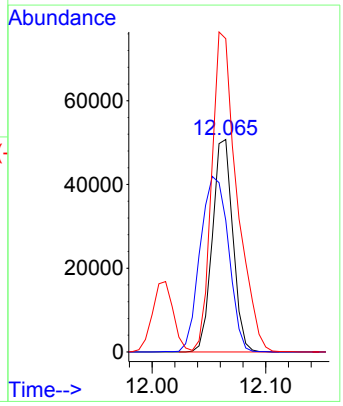




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.065 min Scan# 1866
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

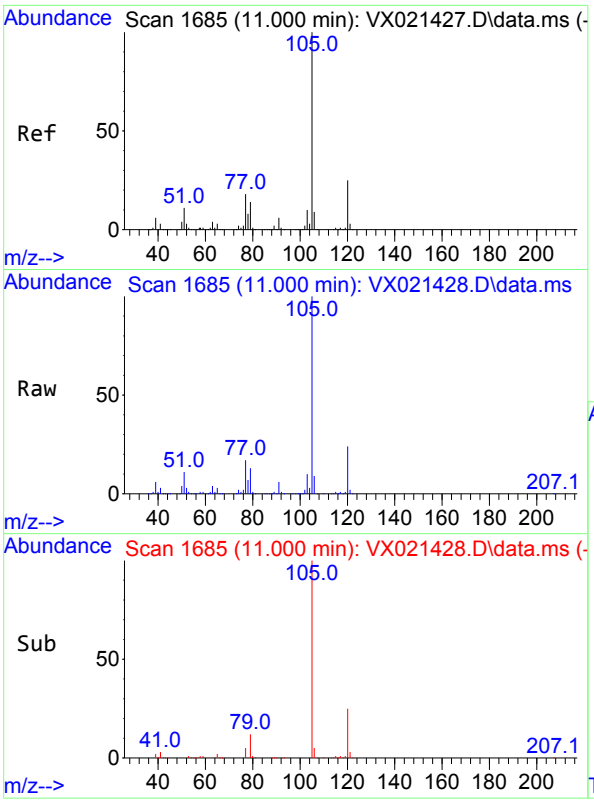
Tgt Ion:152 Resp: 63611

Ion	Ratio	Lower	Upper
152	100		
115	114.4	41.1	123.3
150	185.5	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

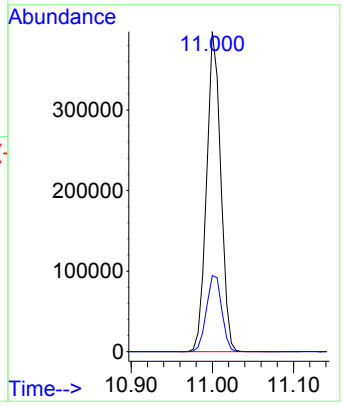
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

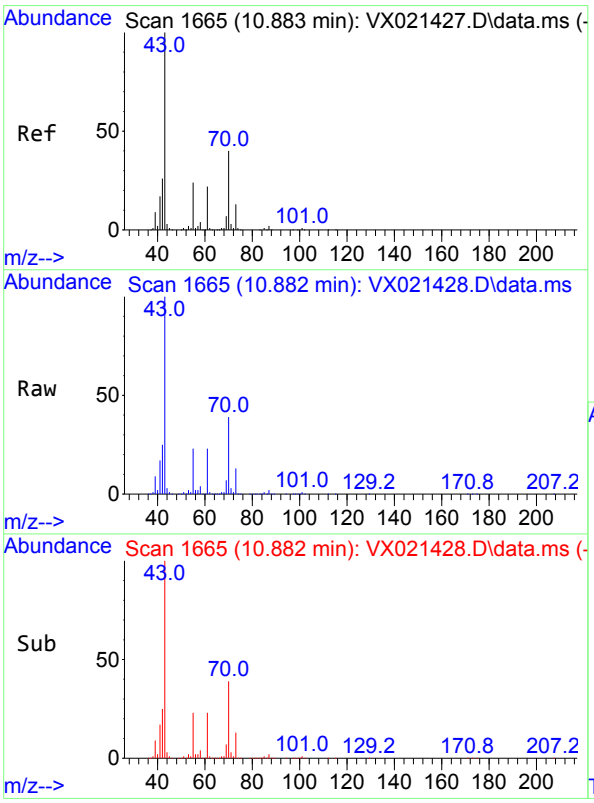


#73
Isopropylbenzene
Concen: 102.04 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:105 Resp: 479841

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.6

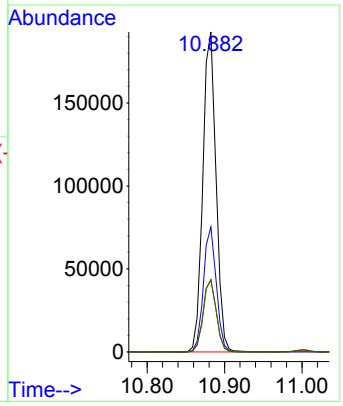




#74
N-amyl acetate
Concen: 97.03 ug/l
RT: 10.882 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

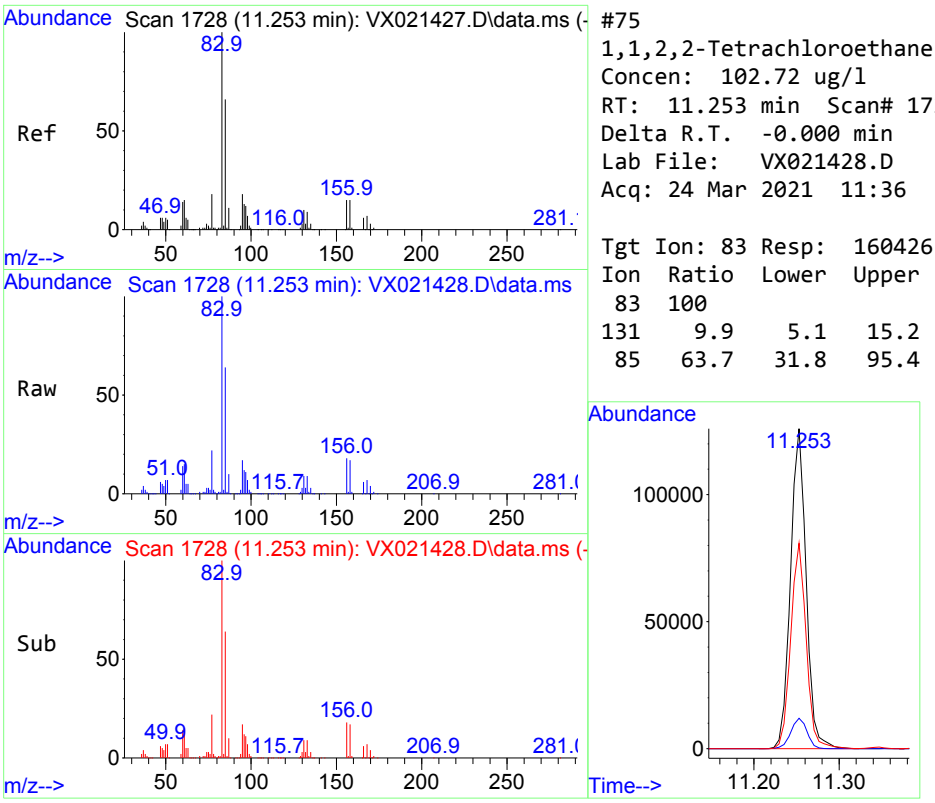
Tgt Ion: 43 Resp: 228255

Ion	Ratio	Lower	Upper
43	100		
70	38.0	39.0	58.6#
55	22.6	21.5	32.3
61	22.2	22.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

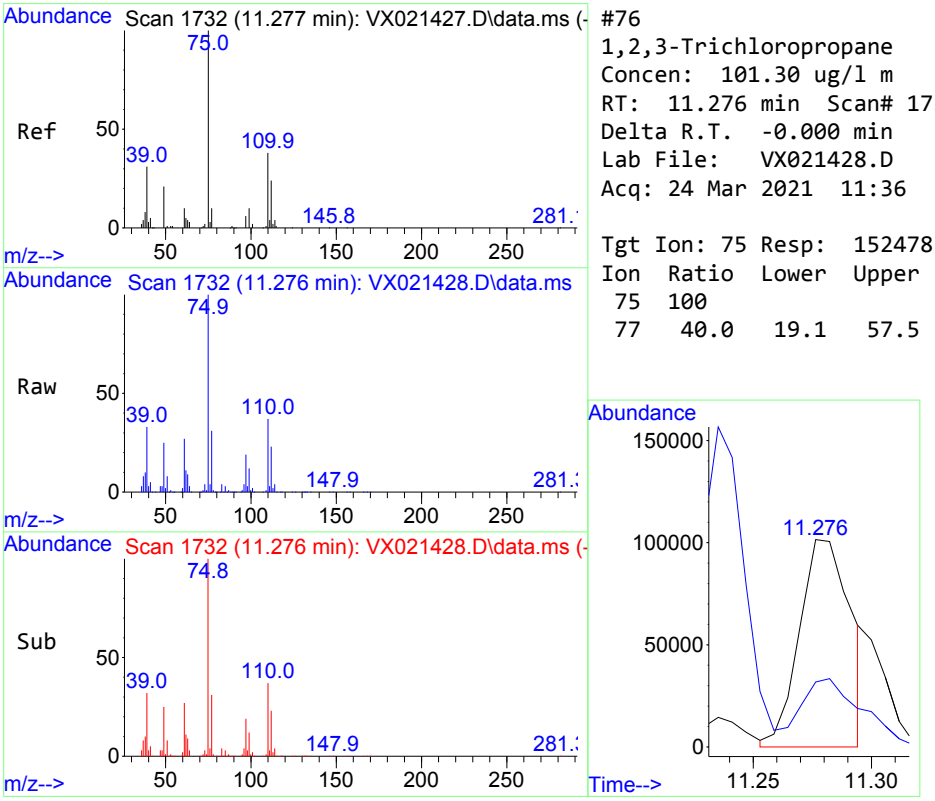
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM



#75
1,1,2,2-Tetrachloroethane
Concen: 102.72 ug/l
RT: 11.253 min Scan# 1728
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 83 Resp: 160426

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.2
85	63.7	31.8	95.4



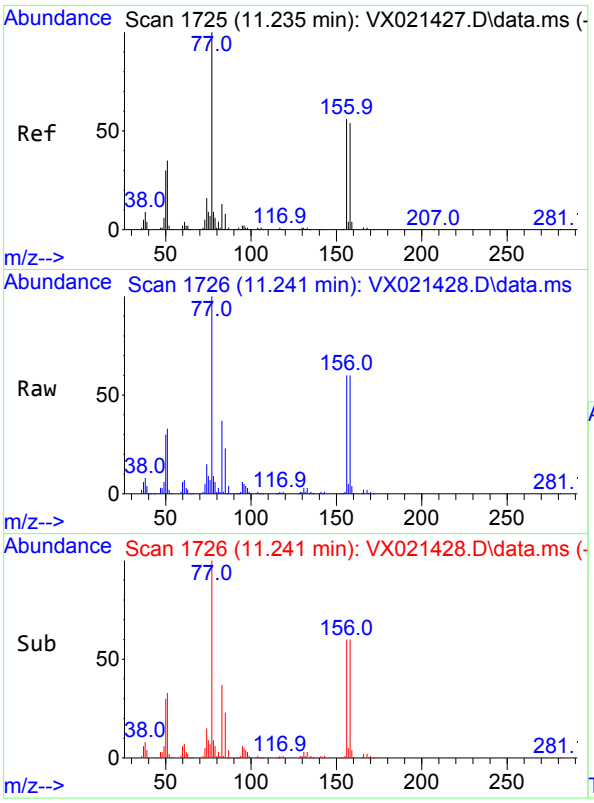
#76
1,2,3-Trichloropropane
Concen: 101.30 ug/l m
RT: 11.276 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 75 Resp: 152478

Ion	Ratio	Lower	Upper
75	100		
77	40.0	19.1	57.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

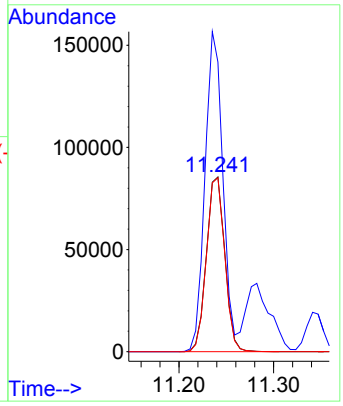
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

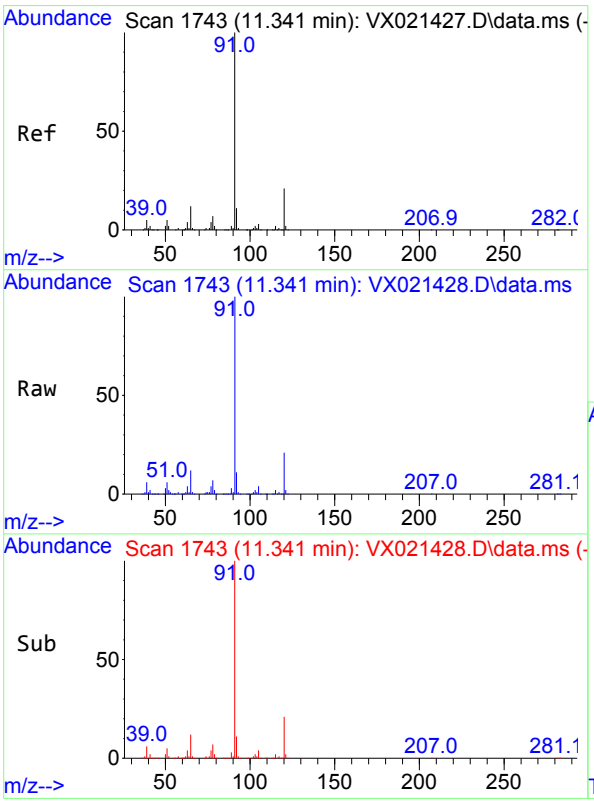


#77
Bromobenzene
Concen: 102.92 ug/l
RT: 11.241 min Scan# 1726
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:156 Resp: 115284

Ion	Ratio	Lower	Upper
156	100		
77	176.5	82.8	248.6
158	98.6	49.1	147.4

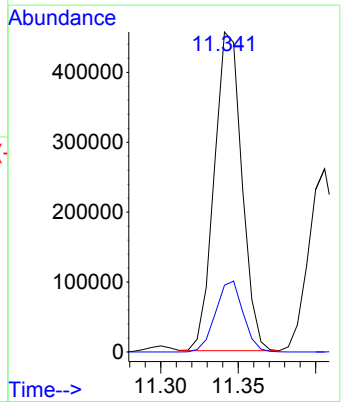




#78
n-propylbenzene
Concen: 102.95 ug/l
RT: 11.341 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

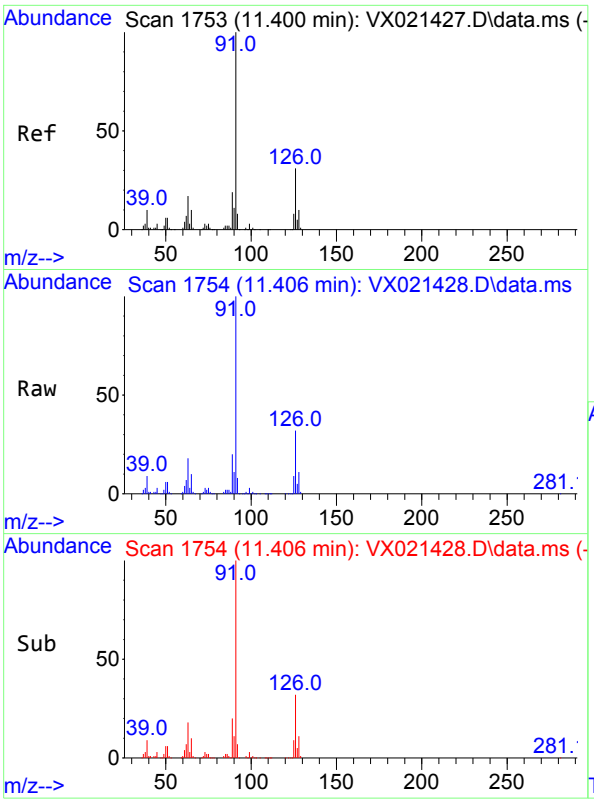
Tgt Ion: 91 Resp: 565557

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

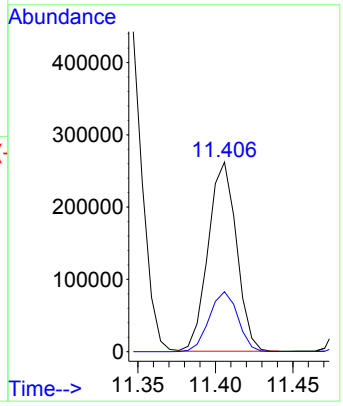
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

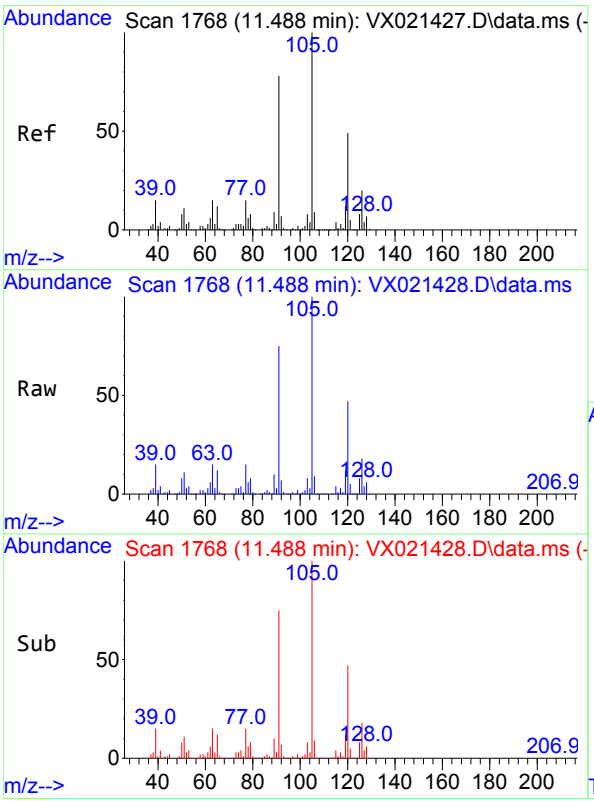


#79
2-Chlorotoluene
Concen: 99.75 ug/l
RT: 11.406 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 91 Resp: 333139

Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.6	49.8

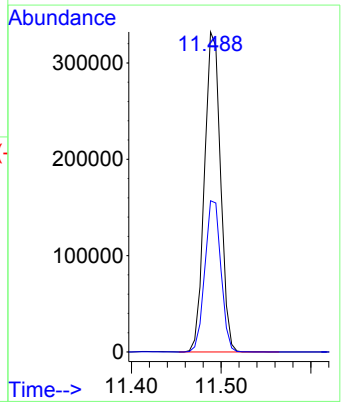




#80
1,3,5-Trimethylbenzene
Concen: 103.63 ug/l
RT: 11.488 min Scan# 1768
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

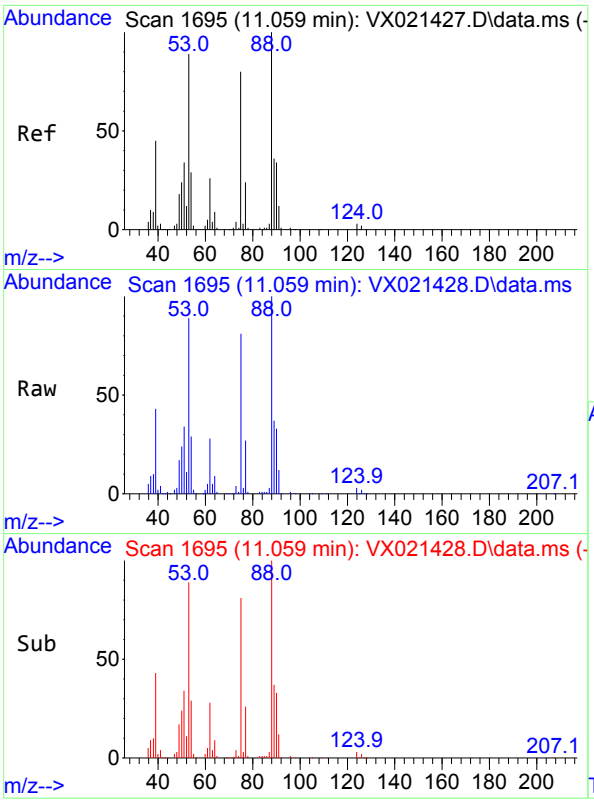
Tgt Ion:105 Resp: 411910

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

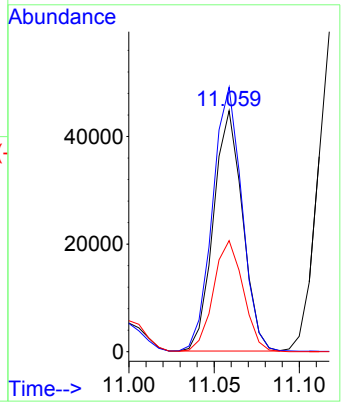
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

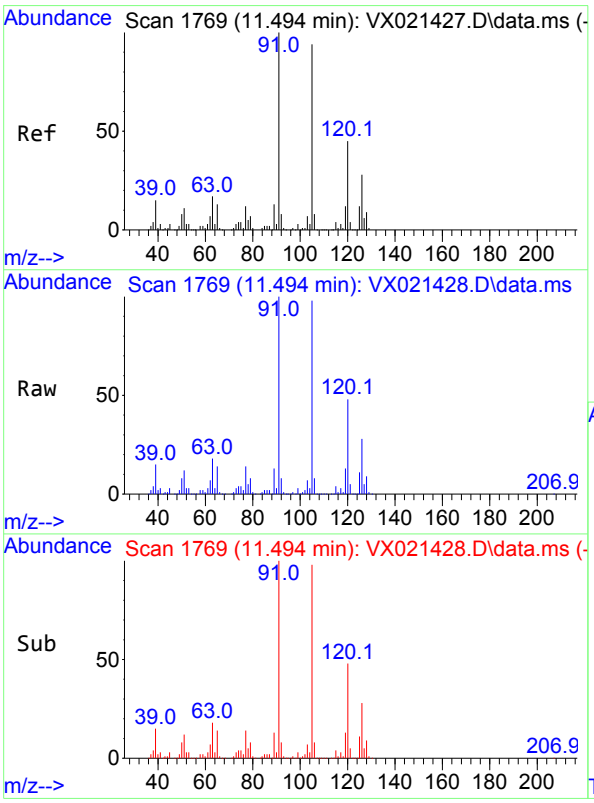


#81
trans-1,4-Dichloro-2-butene
Concen: 99.76 ug/l
RT: 11.059 min Scan# 1695
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 75 Resp: 53216

Ion	Ratio	Lower	Upper
75	100		
53	111.5	74.5	111.7
89	47.3	37.9	56.9

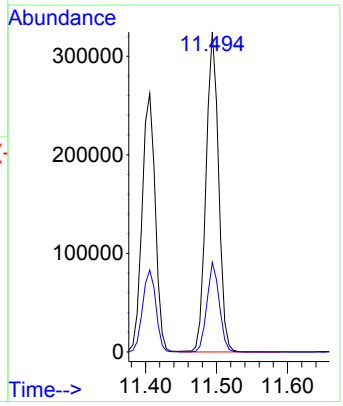




#82
4-Chlorotoluene
Concen: 101.54 ug/l
RT: 11.494 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

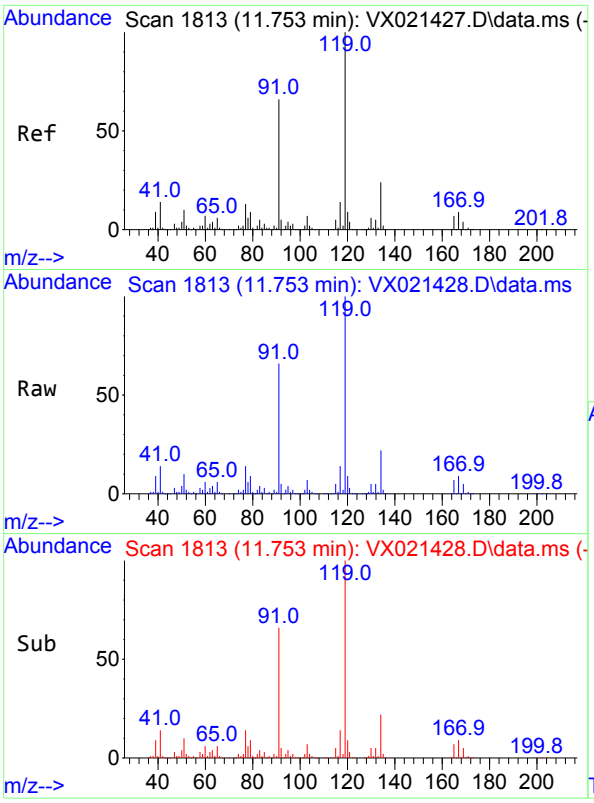
Tgt Ion: 91 Resp: 399561

Ion	Ratio	Lower	Upper
91	100		
126	27.5	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

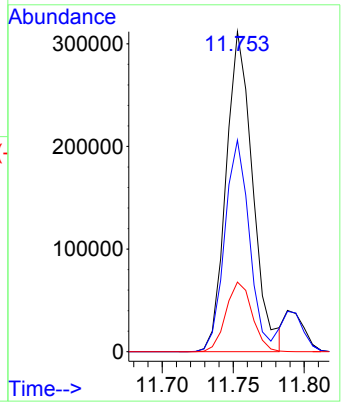
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

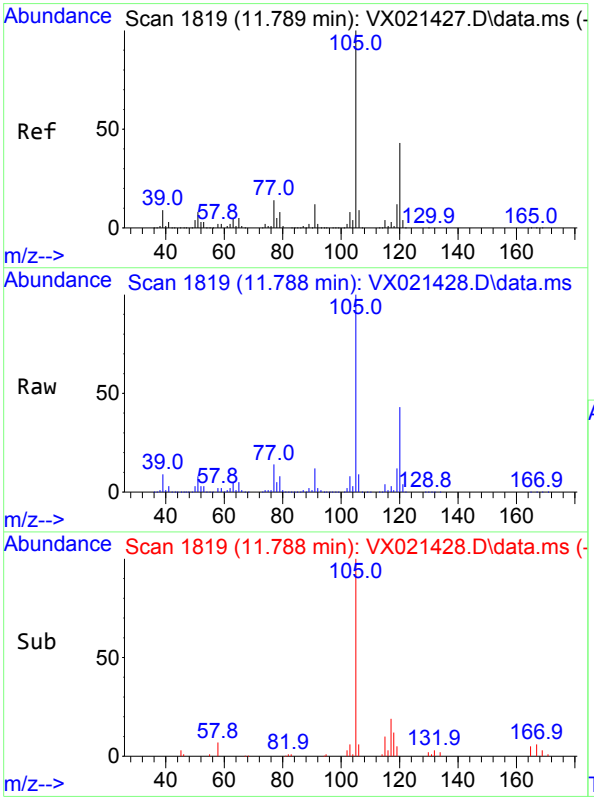


#83
tert-Butylbenzene
Concen: 106.72 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:119 Resp: 405116

Ion	Ratio	Lower	Upper
119	100		
91	61.6	27.9	83.7
134	21.5	11.3	33.9

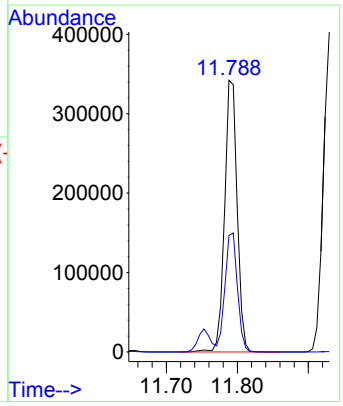




#84
1,2,4-Trimethylbenzene
Concen: 103.05 ug/l
RT: 11.788 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

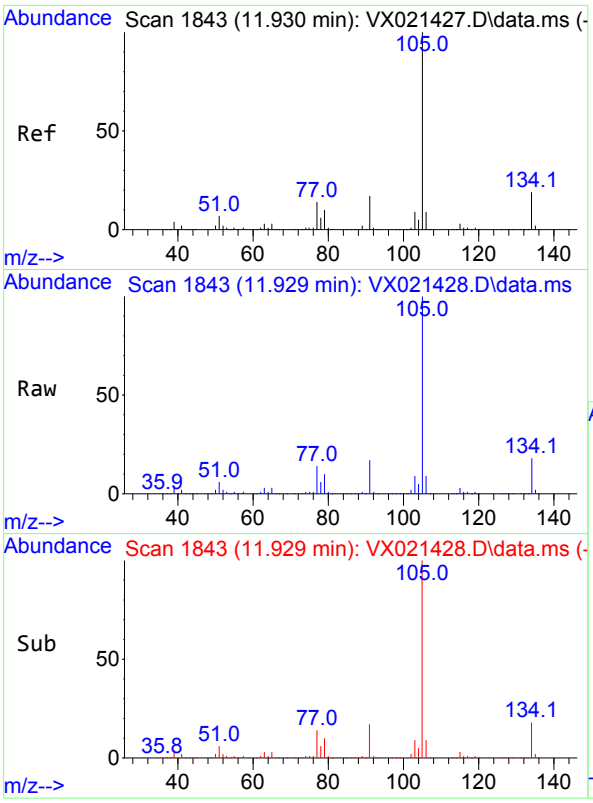
Tgt Ion:105 Resp: 416328

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

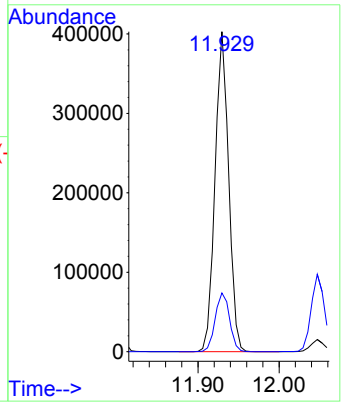
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

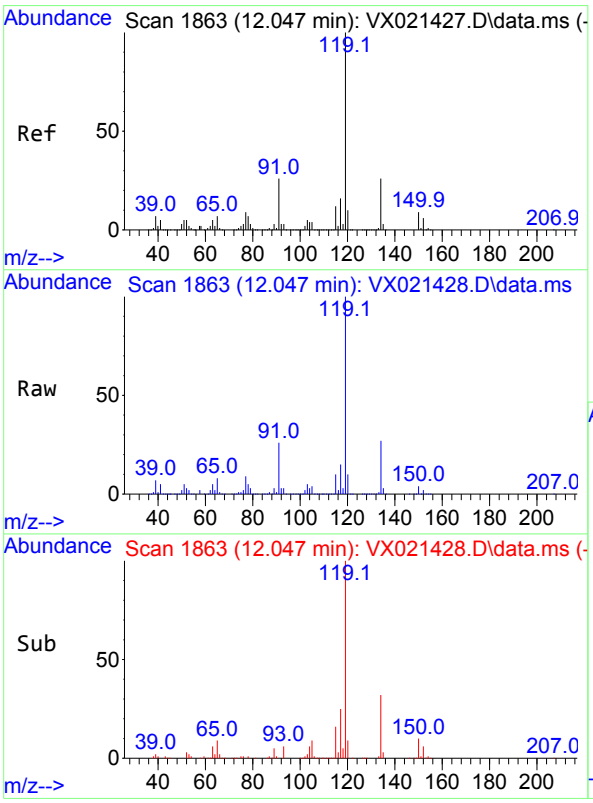


#85
sec-Butylbenzene
Concen: 104.62 ug/l
RT: 11.929 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:105 Resp: 468364

Ion	Ratio	Lower	Upper
105	100		
134	19.4	10.0	29.8

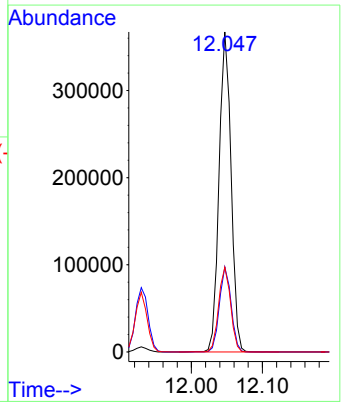




#86
p-Isopropyltoluene
Concen: 104.28 ug/l
RT: 12.047 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

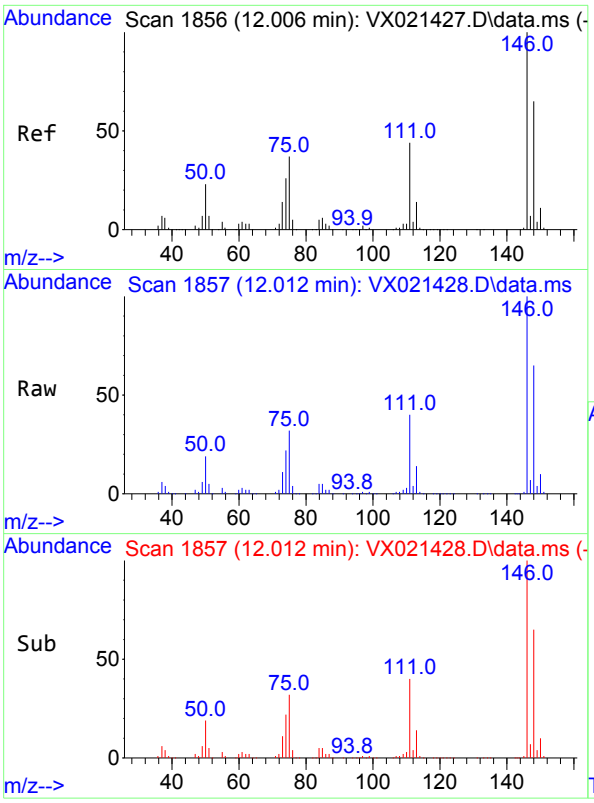
Tgt Ion:119 Resp: 427235

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.7
91	26.4	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

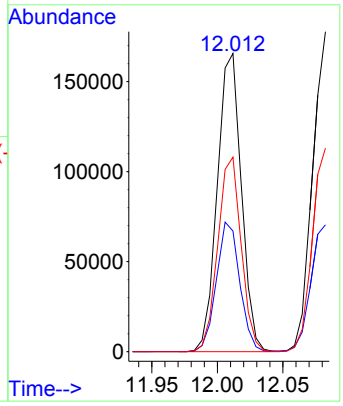
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

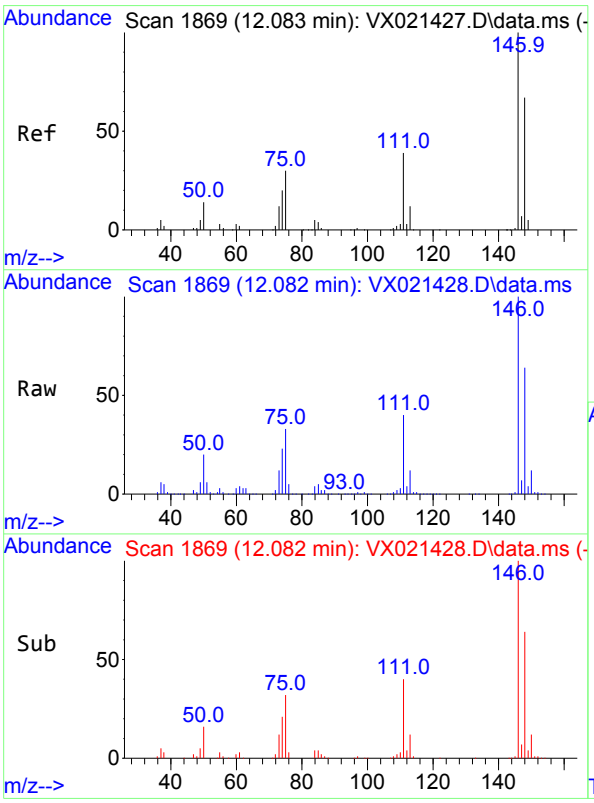


#87
1,3-Dichlorobenzene
Concen: 103.59 ug/l
RT: 12.012 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:146 Resp: 211216

Ion	Ratio	Lower	Upper
146	100		
111	42.4	20.2	60.5
148	63.5	31.9	95.7

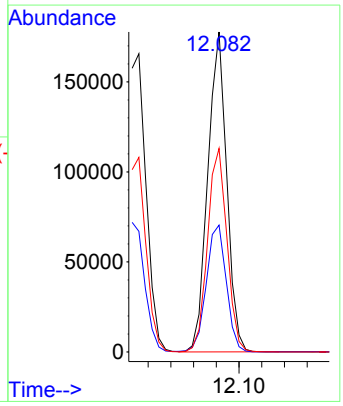




#88
1,4-Dichlorobenzene
Concen: 99.04 ug/l
RT: 12.082 min Scan# 1869
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

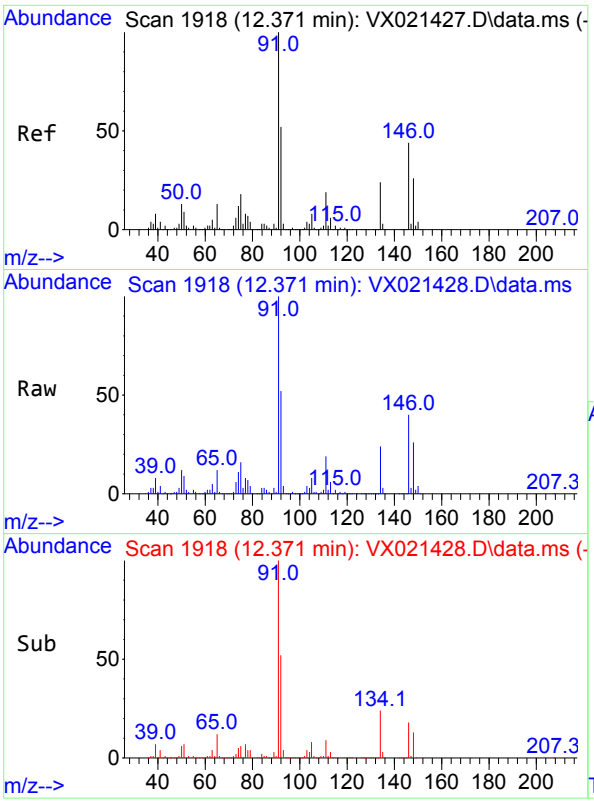
Tgt Ion:146 Resp: 205539

Ion	Ratio	Lower	Upper
146	100		
111	41.9	19.6	58.8
148	65.3	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

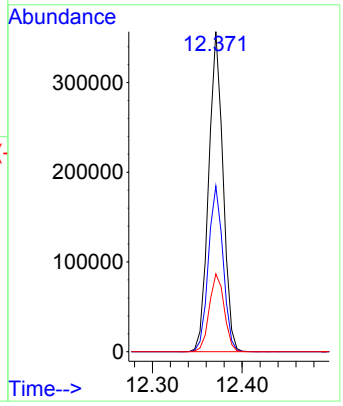
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

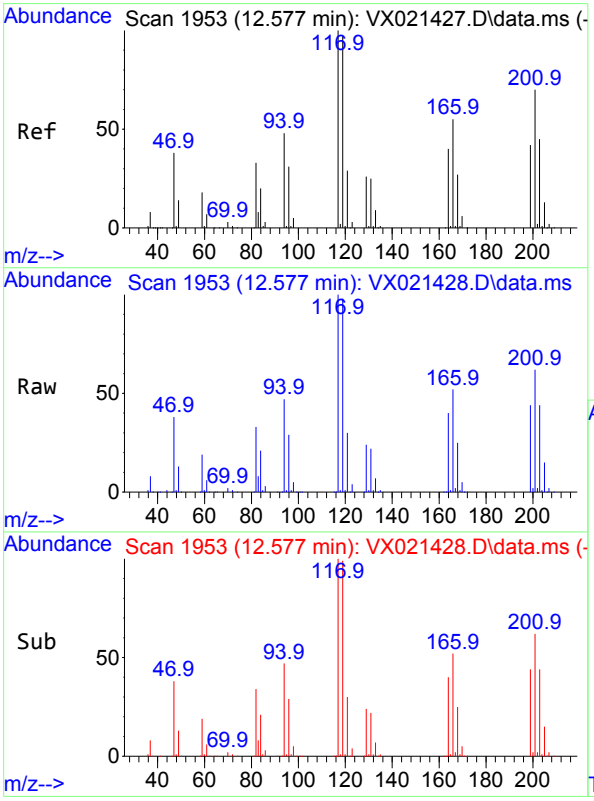


#89
n-Butylbenzene
Concen: 105.99 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion: 91 Resp: 395671

Ion	Ratio	Lower	Upper
91	100		
92	52.8	27.4	82.0
134	25.3	13.2	39.5

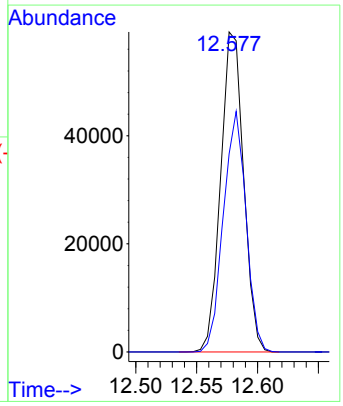




#90
Hexachloroethane
Concen: 121.93 ug/l
RT: 12.577 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

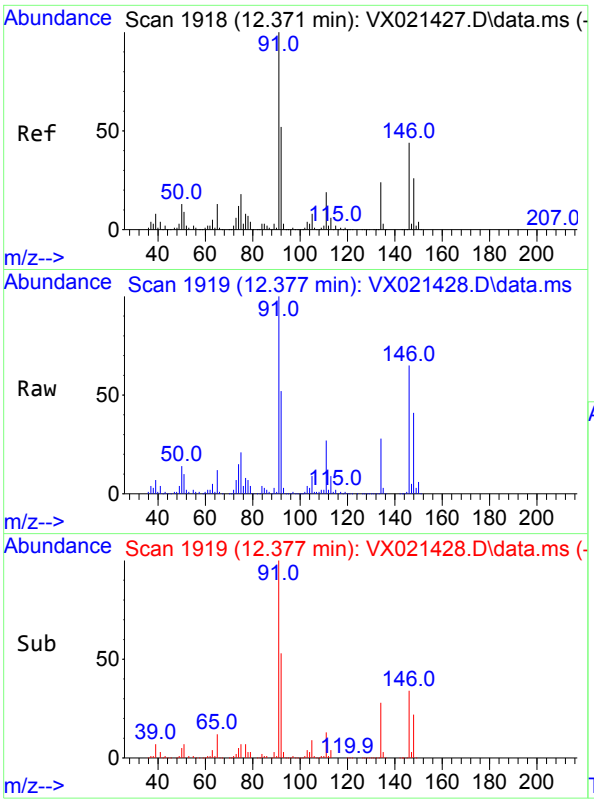
Tgt Ion:117 Resp: 77593

Ion	Ratio	Lower	Upper
117	100		
201	74.3	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

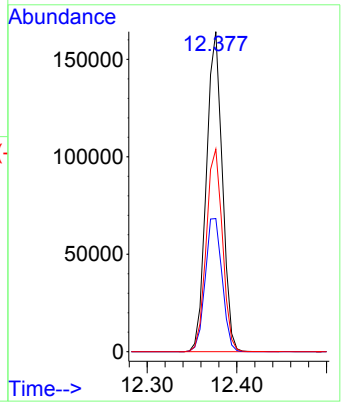
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

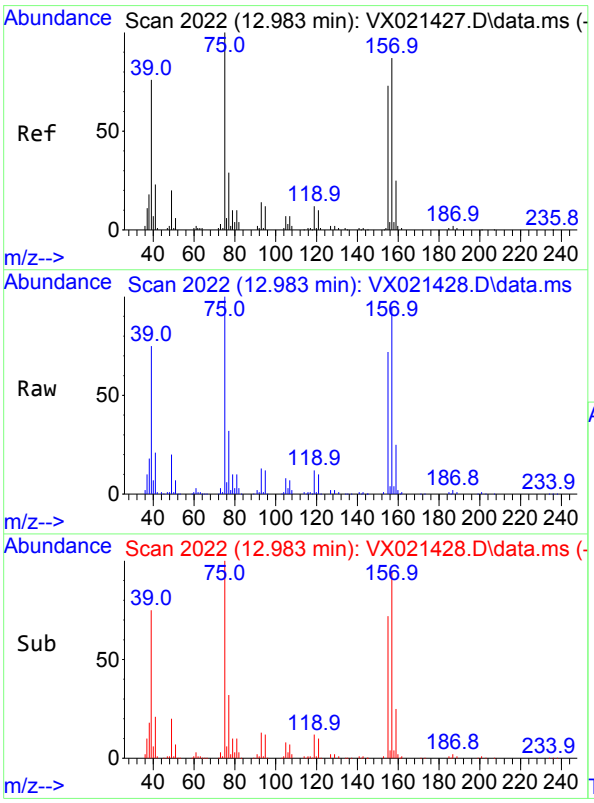


#91
1,2-Dichlorobenzene
Concen: 102.27 ug/l
RT: 12.377 min Scan# 1919
Delta R.T. 0.006 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:146 Resp: 202350

Ion	Ratio	Lower	Upper
146	100		
111	44.2	20.8	62.2
148	64.2	31.9	95.5

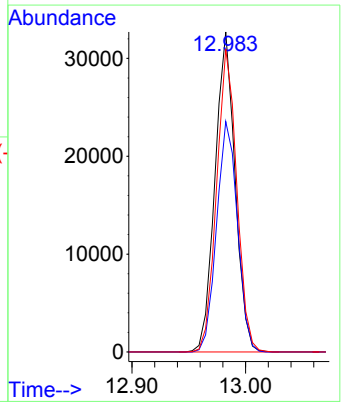




#92
1,2-Dibromo-3-Chloropropane
Concen: 100.81 ug/l
RT: 12.983 min Scan# 2022
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

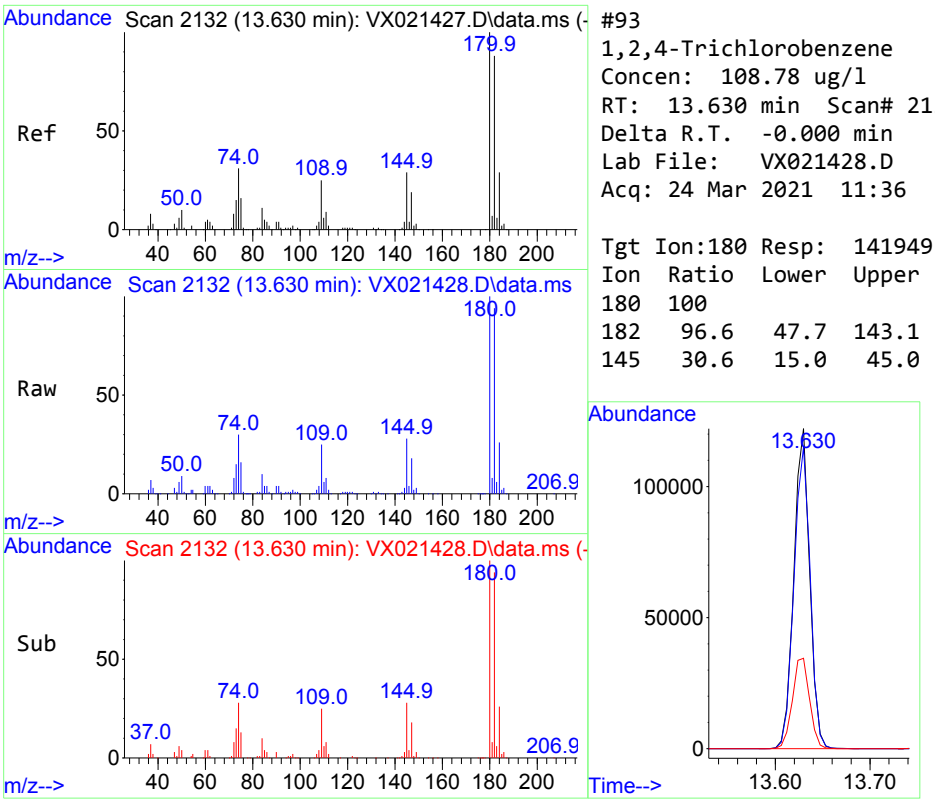
Tgt Ion: 75 Resp: 40154

Ion	Ratio	Lower	Upper
75	100		
155	74.6	45.3	135.9
157	95.0	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

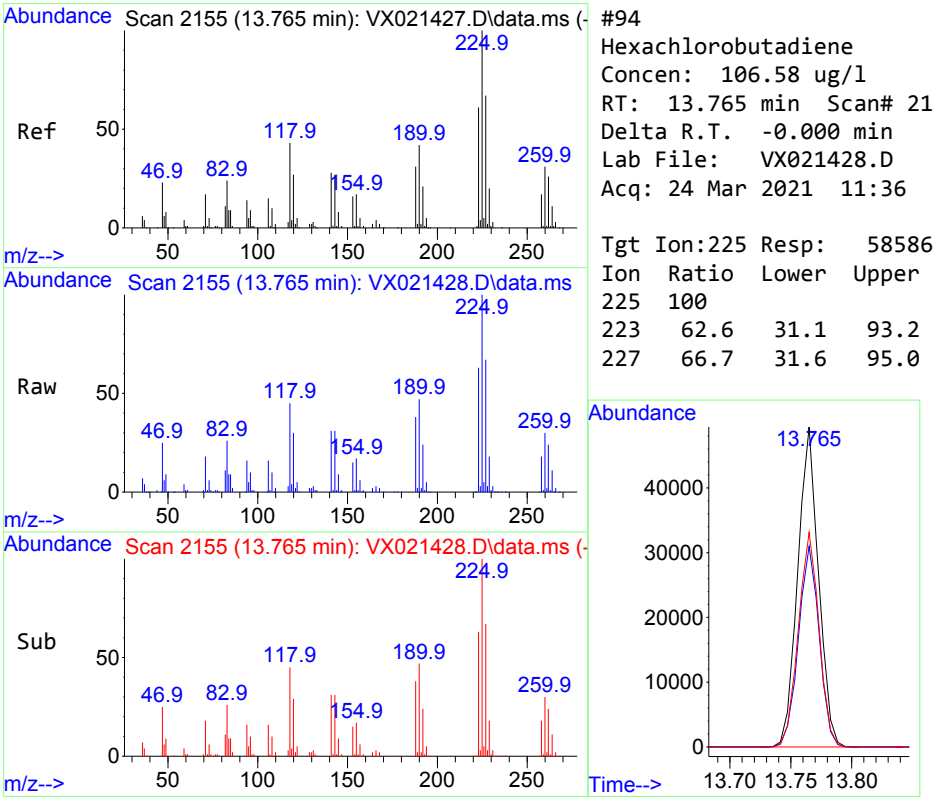
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM



#93
1,2,4-Trichlorobenzene
Concen: 108.78 ug/l
RT: 13.630 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:180 Resp: 141949

Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.7	143.1
145	30.6	15.0	45.0



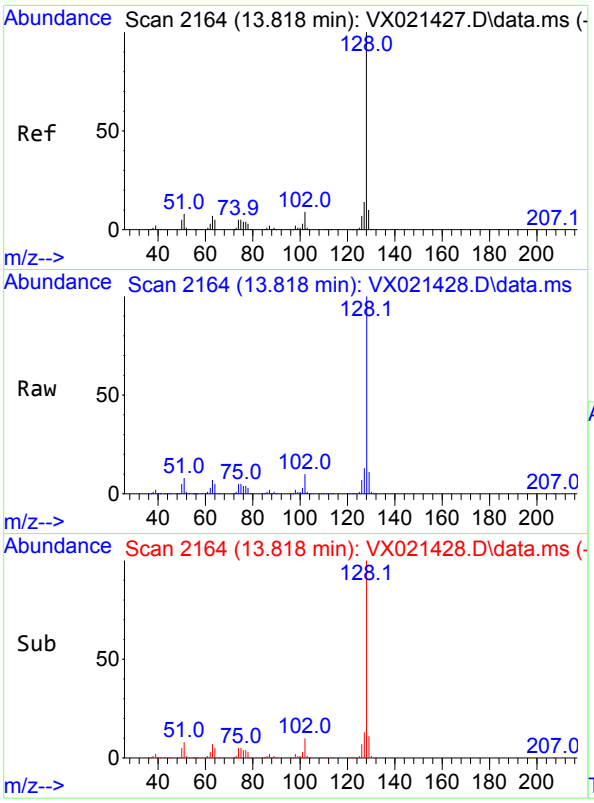
#94
Hexachlorobutadiene
Concen: 106.58 ug/l
RT: 13.765 min Scan# 2155
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:225 Resp: 58586

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.1	93.2
227	66.7	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

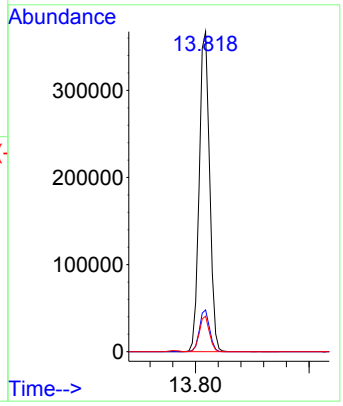
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:35 AM

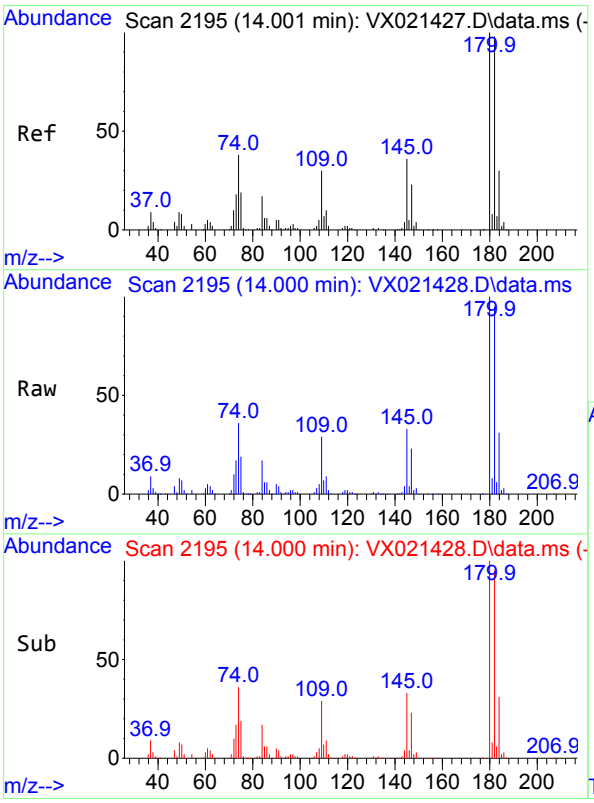


#95
Naphthalene
Concen: 104.68 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:128 Resp: 466719

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	10.8	8.8	13.2

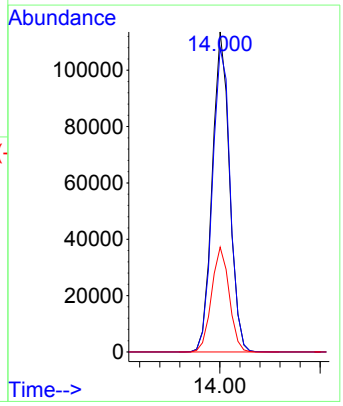




#96
1,2,3-Trichlorobenzene
Concen: 104.85 ug/l
RT: 14.000 min Scan# 2195
Delta R.T. -0.000 min
Lab File: VX021428.D
Acq: 24 Mar 2021 11:36

Tgt Ion:180 Resp: 135416

Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.6	142.9
145	33.5	16.1	48.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021429.D
Acq On : 24 Mar 2021 11:58
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 24 12:18:27 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICC150

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.629	168	78484	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	130602	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	124542	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.065	152	63259	50.00	ug/l	#	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.029	65	206597	161.39	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 322.78%#				
35) Dibromofluoromethane	5.464	113	148012	166.25	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 332.50%#				
50) Toluene-d8	8.700	98	537648	165.71	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 331.42%#				
62) 4-Bromofluorobenzene	11.118	95	213145	170.05	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 340.10%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.181	85	125716	136.50	ug/l		98
3) Chloromethane	1.311	50	148668	85.36	ug/l		100
4) Vinyl Chloride	1.393	62	135121	143.86	ug/l		99
5) Bromomethane	1.617	94	50084	123.96	ug/l		97
6) Chloroethane	1.687	64	77605	134.68	ug/l		98
7) Trichlorofluoromethane	1.899	101	208691	146.32	ug/l		94
8) Diethyl Ether	2.170	74	77008	153.91	ug/l		80
9) 1,1,2-Trichlorotrifluo...	2.352	101	118865	146.39	ug/l		97
10) Methyl Iodide	2.482	142	106912	155.71	ug/l	#	89
11) Tert butyl alcohol	3.040	59	173128	806.34	ug/l		97
12) 1,1-Dichloroethene	2.346	96	116242	147.20	ug/l		86
13) Acrolein	2.276	56	84486	646.70	ug/l		100
14) Allyl chloride	2.699	41	239001	146.78	ug/l	#	89
15) Acrylonitrile	3.123	53	410754	817.99	ug/l		98
16) Acetone	2.429	43	382033	804.41	ug/l	#	88
17) Carbon Disulfide	2.540	76	320016	131.00	ug/l		100
18) Methyl Acetate	2.752	43	238241	179.02	ug/l		90
19) Methyl tert-butyl Ether	3.170	73	473343	159.44	ug/l		97
20) Methylene Chloride	2.829	84	146022	150.88	ug/l	#	86
21) trans-1,2-Dichloroethene	3.135	96	131962	149.12	ug/l		90
22) Diisopropyl ether	3.829	45	493223	157.38	ug/l		94
23) Vinyl Acetate	3.788	43	2159399	795.91	ug/l	#	93
24) 1,1-Dichloroethane	3.664	63	259577	153.06	ug/l		97
25) 2-Butanone	4.641	43	598754	824.57	ug/l		89
26) 2,2-Dichloropropane	4.546	77	223469	151.51	ug/l		96
27) cis-1,2-Dichloroethene	4.558	96	158997	156.17	ug/l		92
28) Bromochloromethane	4.982	49	122924	153.59	ug/l		85
29) Tetrahydrofuran	5.094	42	391090	817.24	ug/l		86
30) Chloroform	5.182	83	280720	158.99	ug/l		99
31) Cyclohexane	5.547	56	215576	140.97	ug/l		94
32) 1,1,1-Trichloroethane	5.464	97	242820	155.13	ug/l		97
36) 1,1-Dichloropropene	5.764	75	192219	146.75	ug/l		97
37) Ethyl Acetate	4.799	43	231805	153.07	ug/l	#	92
38) Carbon Tetrachloride	5.753	117	209405	153.52	ug/l		97
39) Methylcyclohexane	7.441	83	217476	149.47	ug/l		94
40) Benzene	6.111	78	568473	157.18	ug/l		98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021429.D
Acq On : 24 Mar 2021 11:58
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 24 12:18:27 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDICC150

Manual Integrations APPROVED
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3/25/2021 9:49:41 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	5.005	41	132567	151.07	ug/l		89
42) 1,2-Dichloroethane	6.158	62	247644	158.20	ug/l		94
43) Isopropyl Acetate	6.417	43	394005	158.58	ug/l	#	91
44) Trichloroethene	7.188	130	148232	154.43	ug/l		100
45) 1,2-Dichloropropane	7.488	63	155666	159.85	ug/l		98
46) Dibromomethane	7.635	93	113771	159.19	ug/l		93
47) Bromodichloromethane	7.876	83	235248	164.48	ug/l		100
48) Methyl methacrylate	7.747	41	211540	159.60	ug/l	#	83
49) 1,4-Dioxane	7.717	88	73400	2985.89	ug/l	#	92
51) 4-Methyl-2-Pentanone	8.623	43	1208278	827.75	ug/l		89
52) Toluene	8.765	92	366475	163.70	ug/l		99
53) t-1,3-Dichloropropene	9.024	75	255377	168.83	ug/l		99
54) cis-1,3-Dichloropropene	8.418	75	263971	163.92	ug/l	#	86
55) 1,1,2-Trichloroethane	9.194	97	152675	165.99	ug/l		100
56) Ethyl methacrylate	9.159	69	248059	168.42	ug/l	#	77
57) 1,3-Dichloropropane	9.353	76	261121	163.03	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.294	63	656572	809.30	ug/l		96
59) 2-Hexanone	9.477	43	916408	839.13	ug/l		85
60) Dibromochloromethane	9.565	129	173838	166.22	ug/l		97
61) 1,2-Dibromoethane	9.653	107	165332	163.41	ug/l		100
64) Tetrachloroethene	9.318	164	127956	138.92	ug/l		91
65) Chlorobenzene	10.124	112	392937	153.34	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.206	131	152772	160.04	ug/l		98
67) Ethyl Benzene	10.235	91	715136	151.55	ug/l		100
68) m/p-Xylenes	10.341	106	515863	305.90	ug/l		92
69) o-Xylene	10.683	106	253545	154.82	ug/l		95
70) Styrene	10.694	104	443588	160.80	ug/l		96
71) Bromoform	10.841	173	126571	164.54	ug/l	#	98
73) Isopropylbenzene	11.000	105	687670	147.04	ug/l		98
74) N-amyl acetate	10.883	43	347791	148.67	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	11.253	83	239871	154.45	ug/l		99
76) 1,2,3-Trichloropropane	11.283	75	224557m	150.02	ug/l		
77) Bromobenzene	11.241	156	169165	151.86	ug/l		95
78) n-propylbenzene	11.341	91	813163	148.84	ug/l		98
79) 2-Chlorotoluene	11.406	91	482861	145.38	ug/l		98
80) 1,3,5-Trimethylbenzene	11.489	105	593131	150.06	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.059	75	83589	157.56	ug/l		89
82) 4-Chlorotoluene	11.494	91	579474	148.09	ug/l		97
83) tert-Butylbenzene	11.753	119	578778	153.31	ug/l		94
84) 1,2,4-Trimethylbenzene	11.789	105	602128	149.86	ug/l		98
85) sec-Butylbenzene	11.930	105	668961	150.26	ug/l		99
86) p-Isopropyltoluene	12.047	119	614754	150.88	ug/l		97
87) 1,3-Dichlorobenzene	12.012	146	310892	153.33	ug/l		99
88) 1,4-Dichlorobenzene	12.083	146	315092	152.67	ug/l		98
89) n-Butylbenzene	12.371	91	582923	157.02	ug/l		96
90) Hexachloroethane	12.583	117	115244	182.11	ug/l		91
91) 1,2-Dichlorobenzene	12.377	146	302160	153.56	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.983	75	61621	155.56	ug/l		81
93) 1,2,4-Trichlorobenzene	13.630	180	218662	168.49	ug/l		97
94) Hexachlorobutadiene	13.765	225	84948	155.40	ug/l		95
95) Naphthalene	13.818	128	702214	158.37	ug/l		99
96) 1,2,3-Trichlorobenzene	14.001	180	205544	160.04	ug/l		96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021429.D
Acq On : 24 Mar 2021 11:58
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 24 12:18:27 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

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

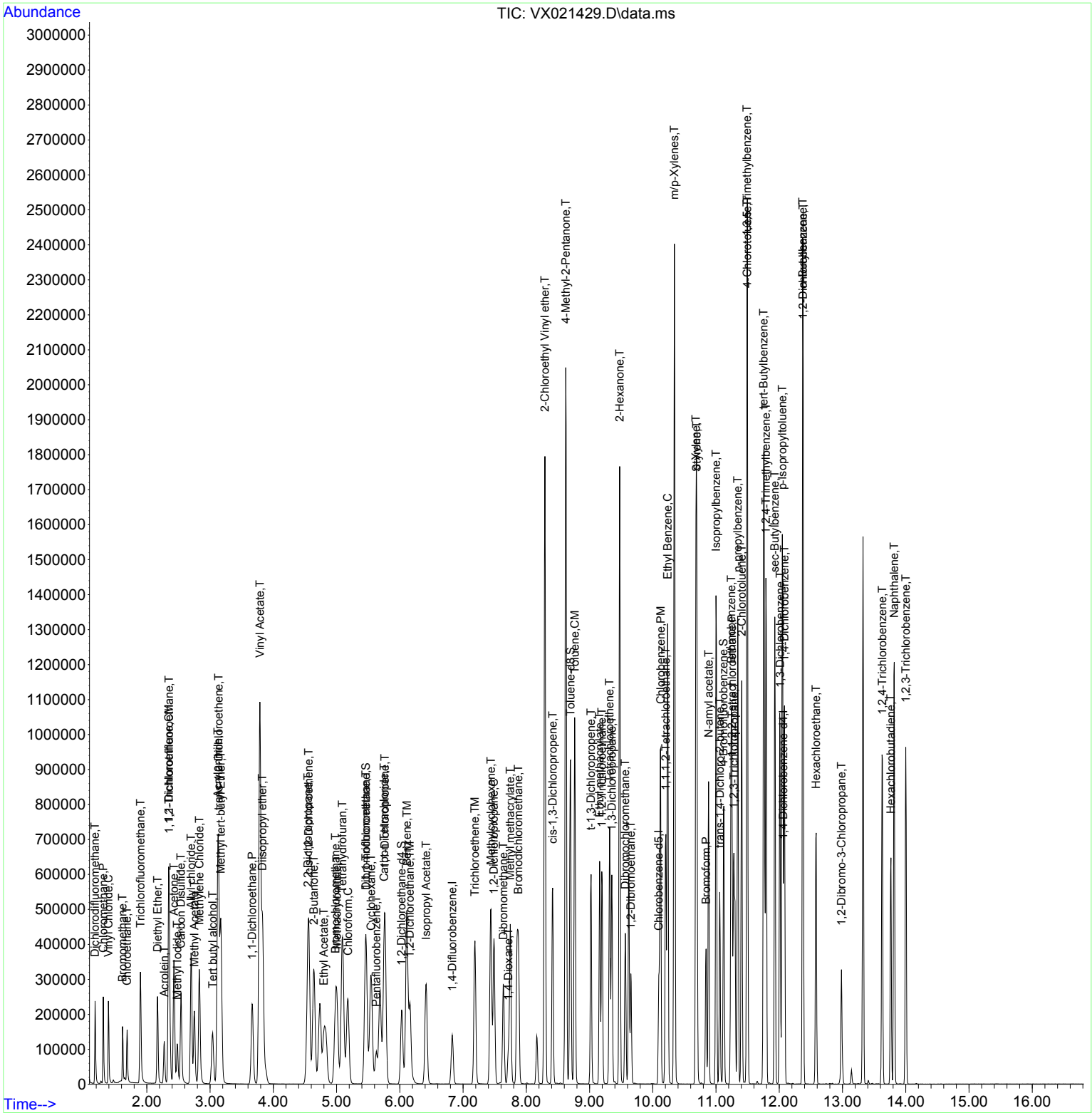
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021429.D
Acq On : 24 Mar 2021 11:58
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 24 12:18:27 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 11:38:07 2021
Response via : Initial Calibration

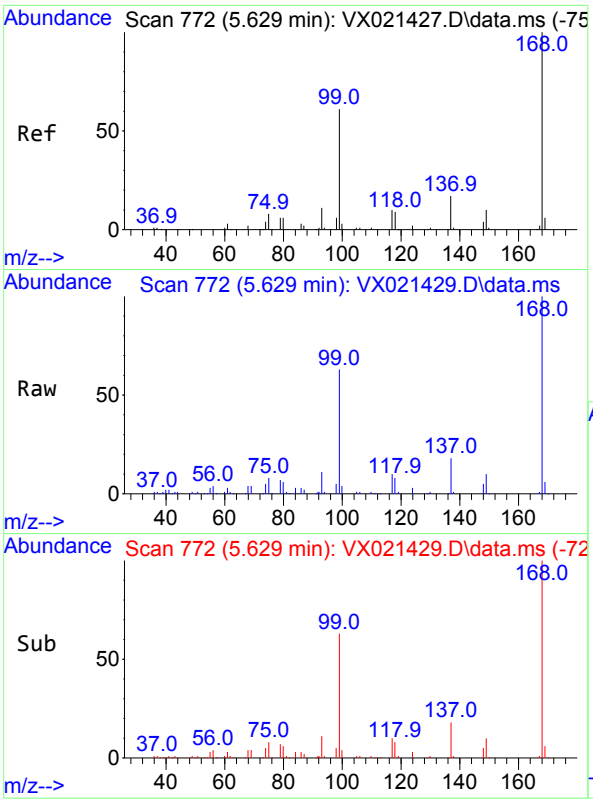
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
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Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

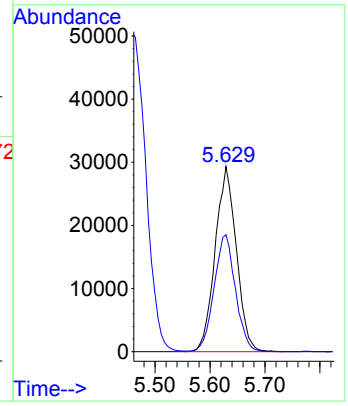
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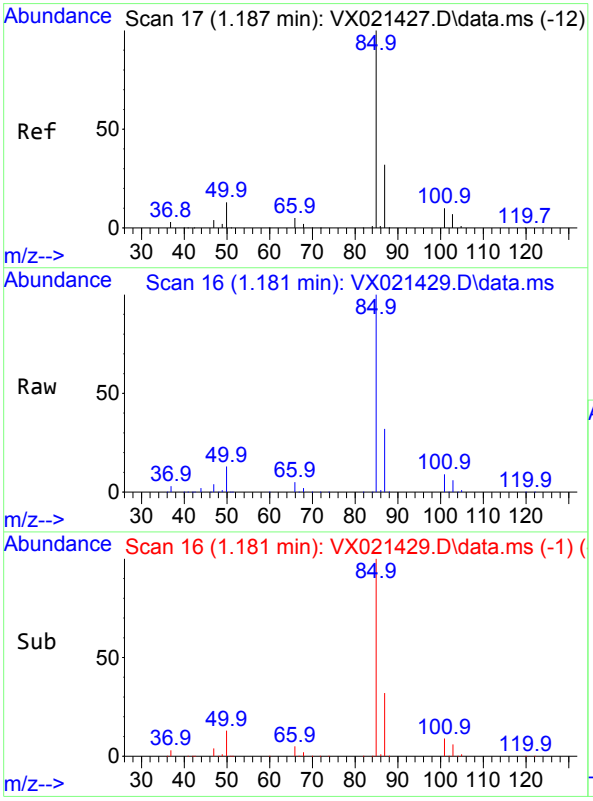


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 772
Delta R.T. -0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:168 Resp: 78484

Ion	Ratio	Lower	Upper
168	100		
99	63.2	45.8	68.6

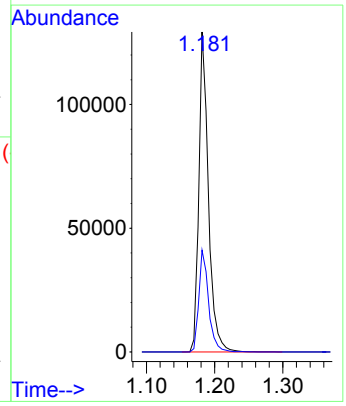




#2
Dichlorodifluoromethane
Concen: 136.50 ug/l
RT: 1.181 min Scan# 16
Delta R.T. -0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

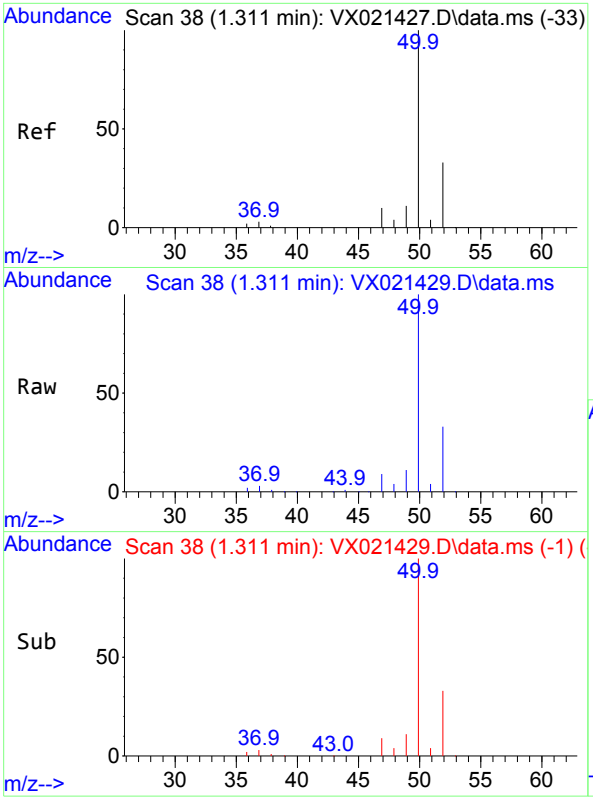
Tgt Ion: 85 Resp: 125716

Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

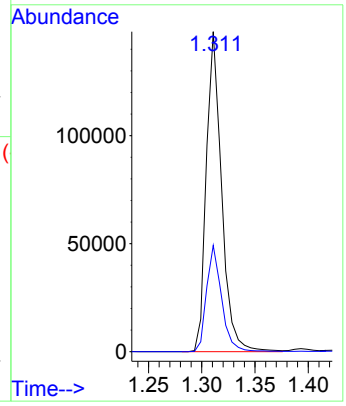
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3/25/2021 9:49:41 AM

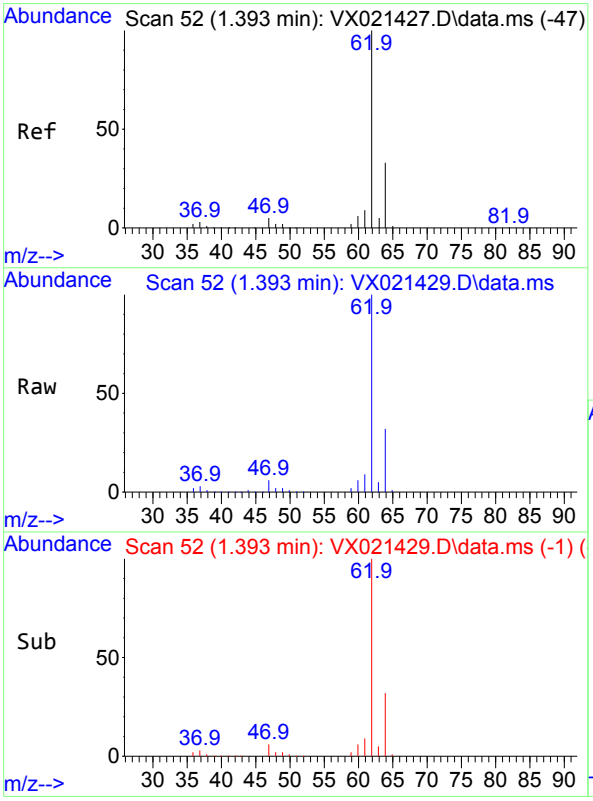


#3
Chloromethane
Concen: 85.36 ug/l
RT: 1.311 min Scan# 38
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 50 Resp: 148668

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.4	39.6

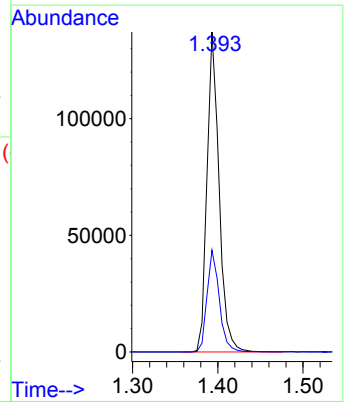




#4
Vinyl Chloride
Concen: 143.86 ug/l
RT: 1.393 min Scan# 52
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

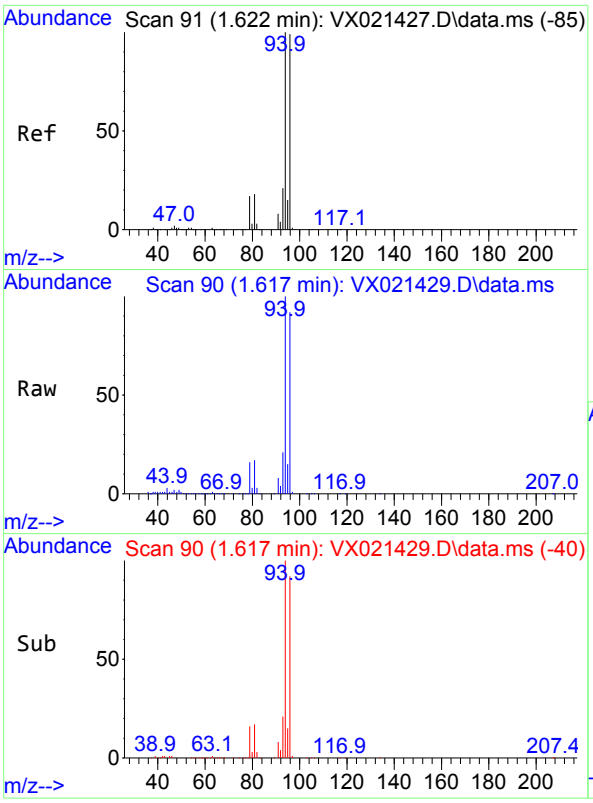
Tgt Ion: 62 Resp: 135121

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

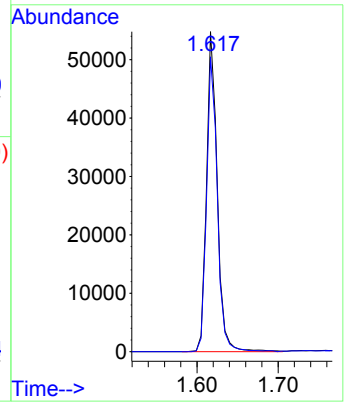
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

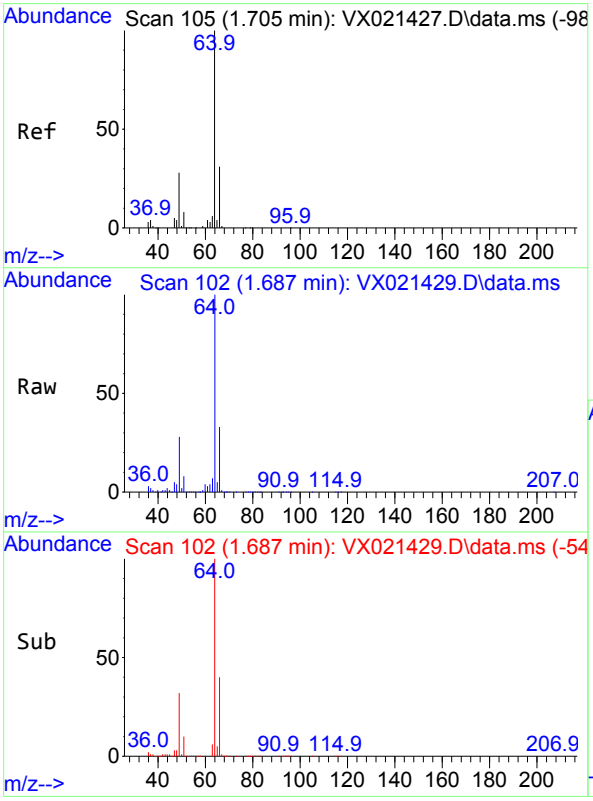


#5
Bromomethane
Concen: 123.96 ug/l
RT: 1.617 min Scan# 90
Delta R.T. -0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 94 Resp: 50084

Ion	Ratio	Lower	Upper
94	100		
96	92.2	76.4	114.6

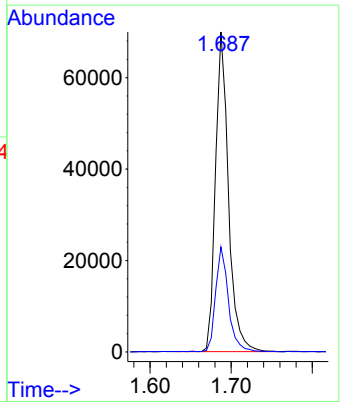




#6
Chloroethane
Concen: 134.68 ug/l
RT: 1.687 min Scan# 102
Delta R.T. -0.018 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

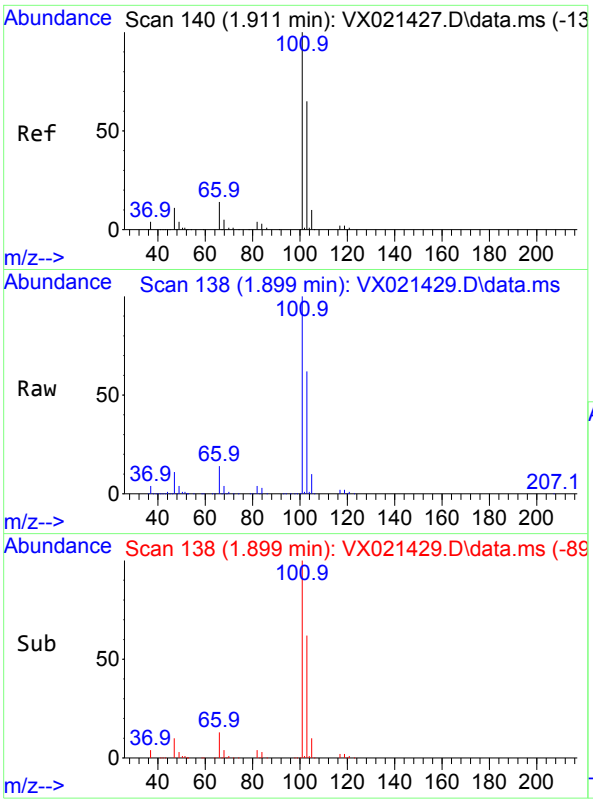
Tgt Ion: 64 Resp: 77605

Ion	Ratio	Lower	Upper
64	100		
66	32.7	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

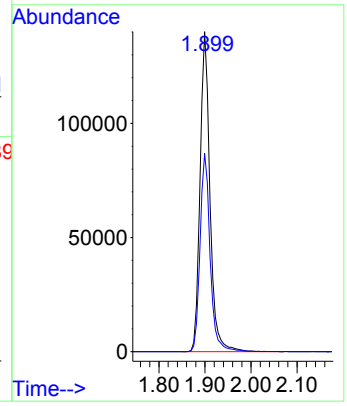
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

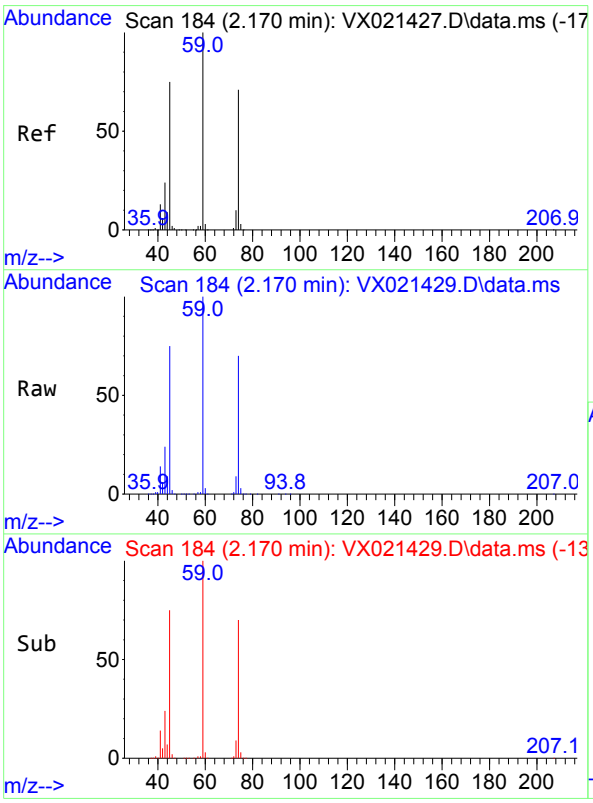


#7
Trichlorofluoromethane
Concen: 146.32 ug/l
RT: 1.899 min Scan# 138
Delta R.T. -0.012 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:101 Resp: 208691

Ion	Ratio	Lower	Upper
101	100		
103	61.9	53.2	79.8

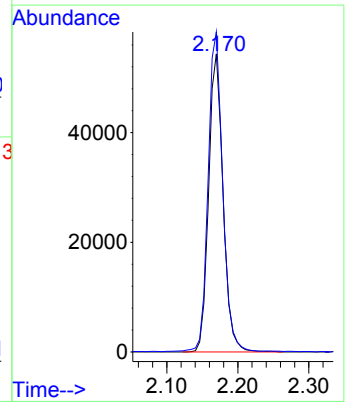




#8
Diethyl Ether
Concen: 153.91 ug/l
RT: 2.170 min Scan# 184
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

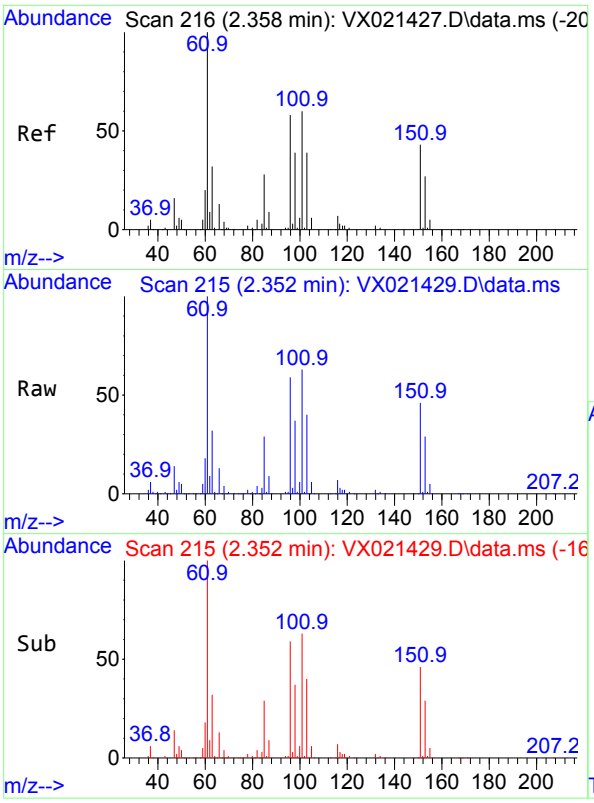
Tgt Ion: 74 Resp: 77008

Ion	Ratio	Lower	Upper
74	100		
45	108.1	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

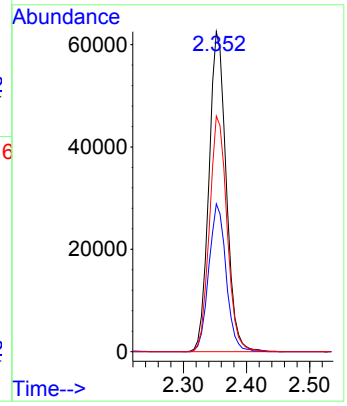
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

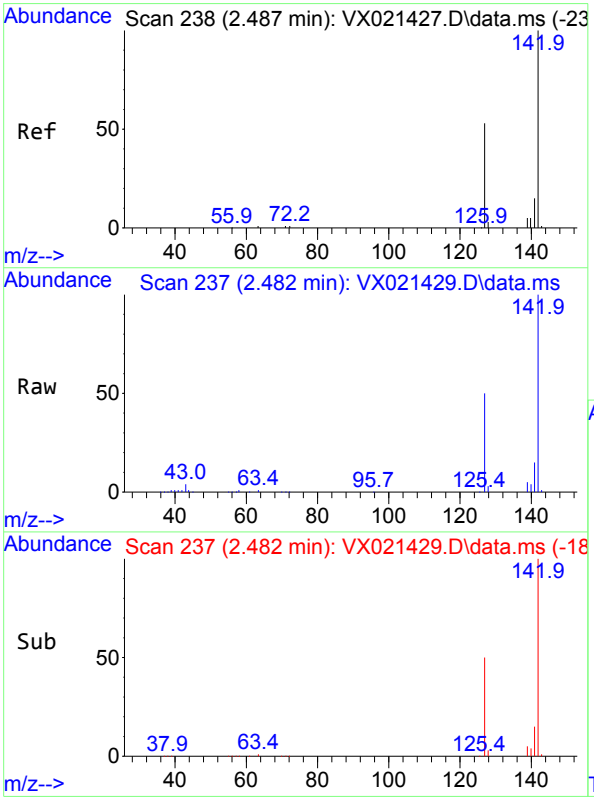


#9
1,1,2-Trichlorotrifluoroethane
Concen: 146.39 ug/l
RT: 2.352 min Scan# 215
Delta R.T. -0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:101 Resp: 118865

Ion	Ratio	Lower	Upper
101	100		
85	46.3	34.9	52.3
151	74.9	61.4	92.2

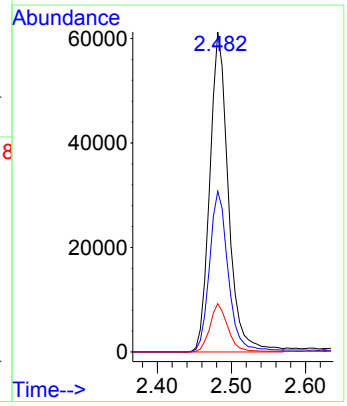




#10
Methyl Iodide
Concen: 155.71 ug/l
RT: 2.482 min Scan# 237
Delta R.T. -0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

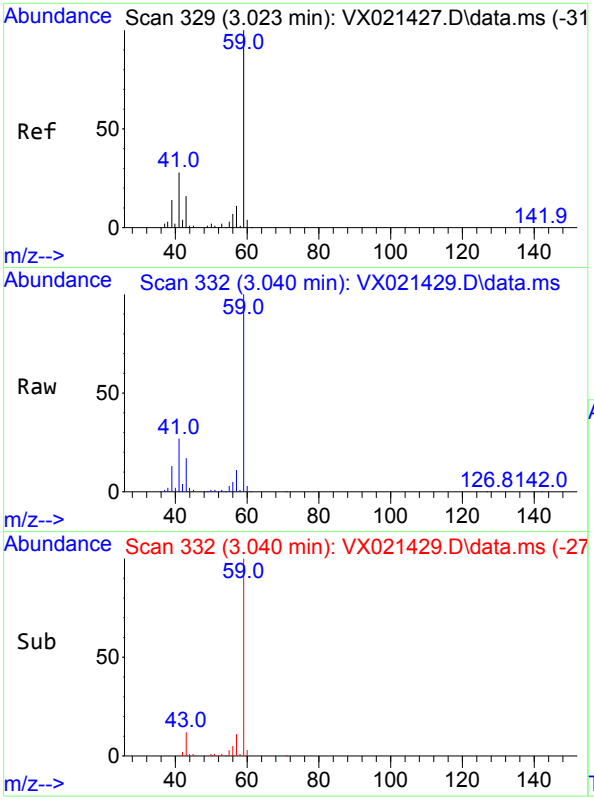
Tgt Ion:142 Resp: 106912

Ion	Ratio	Lower	Upper
142	100		
127	50.8	33.3	49.9#
141	14.8	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

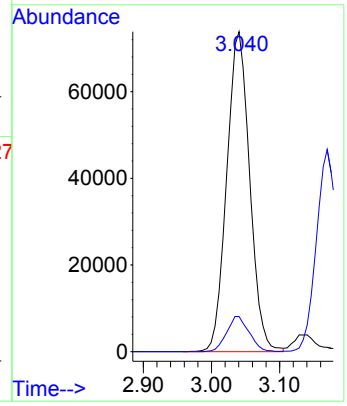
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

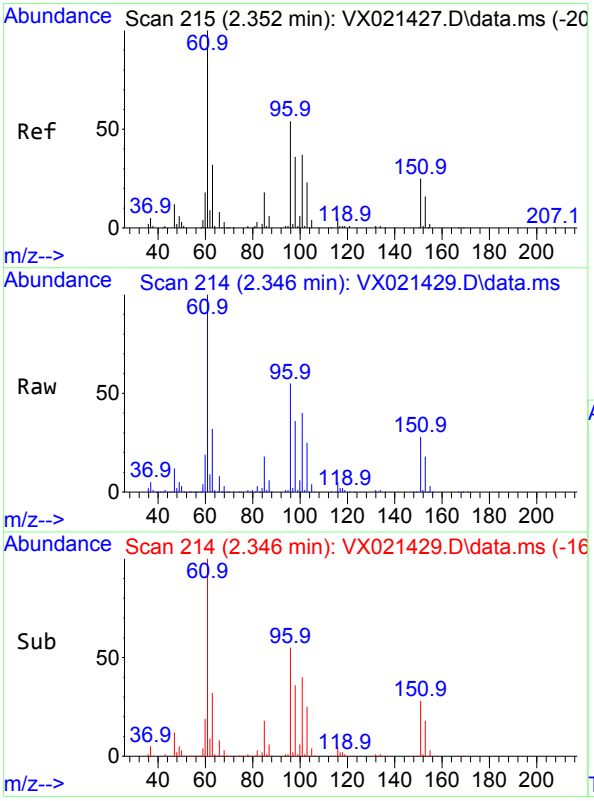


#11
Tert butyl alcohol
Concen: 806.34 ug/l
RT: 3.040 min Scan# 332
Delta R.T. 0.018 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 59 Resp: 173128

Ion	Ratio	Lower	Upper
59	100		
57	10.8	7.8	11.8

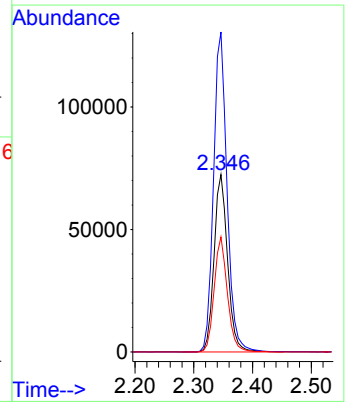




#12
1,1-Dichloroethene
Concen: 147.20 ug/l
RT: 2.346 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

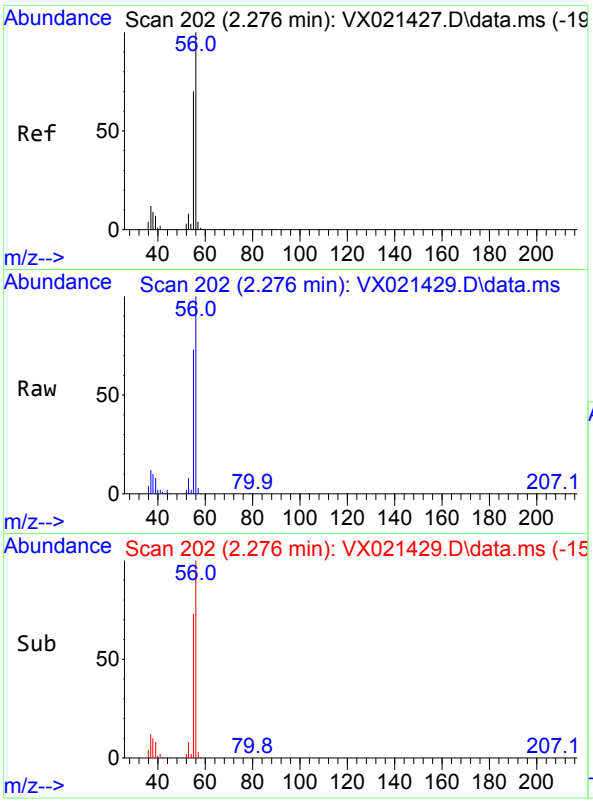
Tgt Ion: 96 Resp: 116242

Ion	Ratio	Lower	Upper
96	100		
61	180.4	124.6	187.0
98	64.9	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

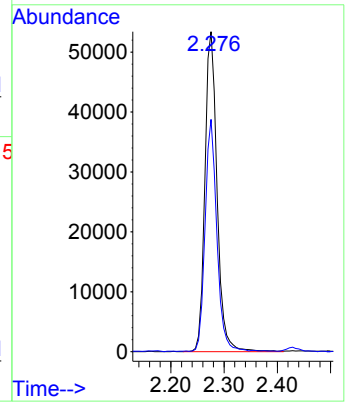
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

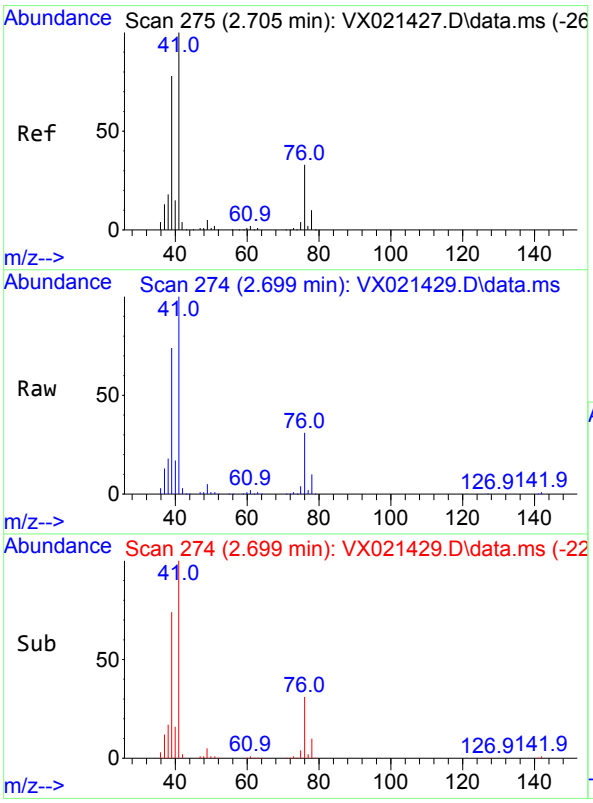


#13
Acrolein
Concen: 646.70 ug/l
RT: 2.276 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 56 Resp: 84486

Ion	Ratio	Lower	Upper
56	100		
55	70.5	56.4	84.6

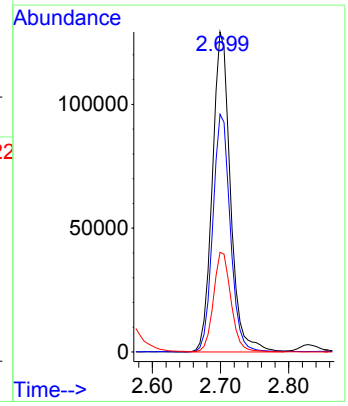




#14
Allyl chloride
Concen: 146.78 ug/l
RT: 2.699 min Scan# 274
Delta R.T. -0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

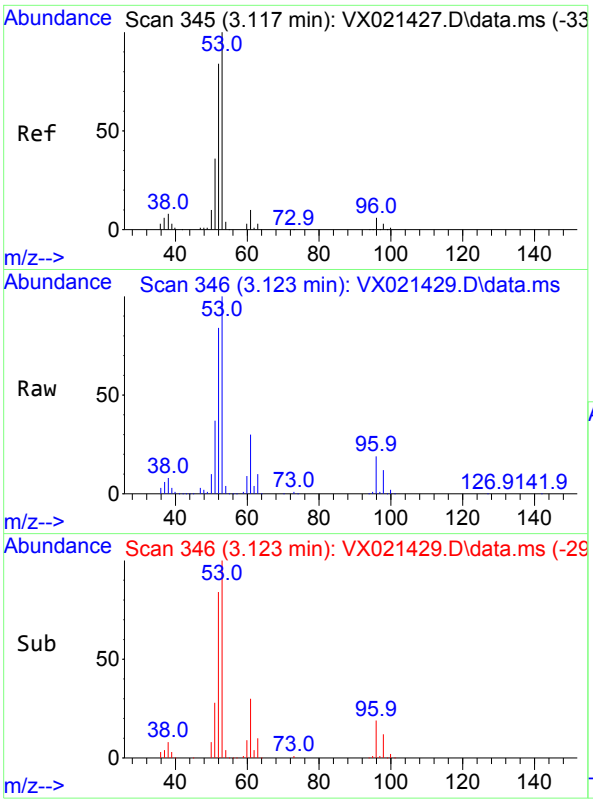
Tgt Ion: 41 Resp: 239001

Ion	Ratio	Lower	Upper
41	100		
39	71.7	51.6	77.4
76	30.2	30.5	45.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

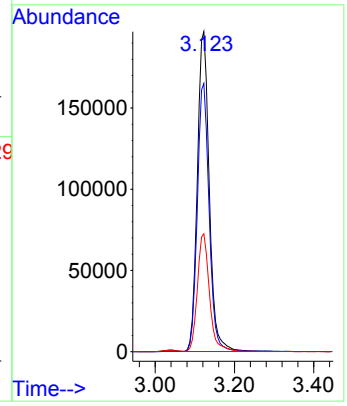
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

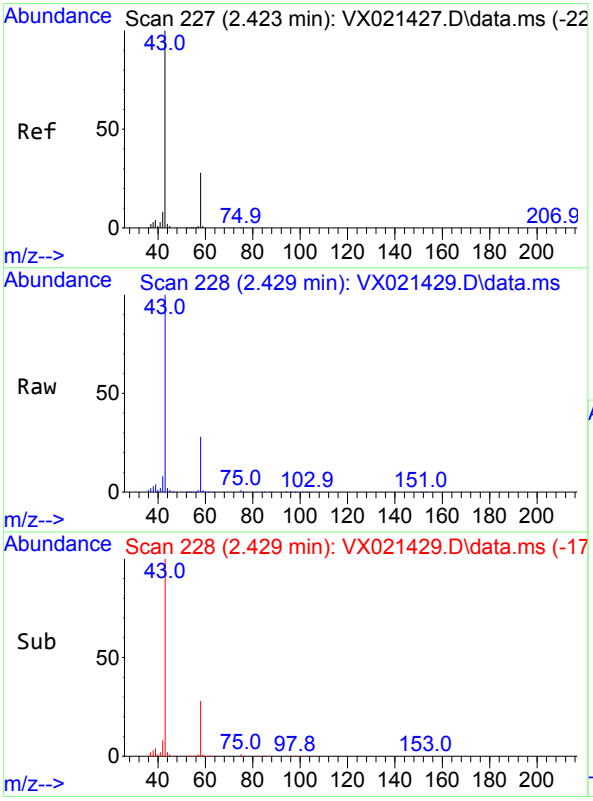


#15
Acrylonitrile
Concen: 817.99 ug/l
RT: 3.123 min Scan# 346
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 53 Resp: 410754

Ion	Ratio	Lower	Upper
53	100		
52	83.1	65.3	97.9
51	37.3	28.2	42.2

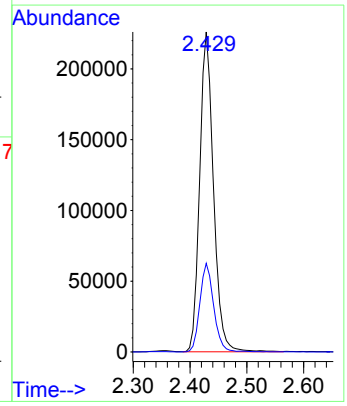




#16
Acetone
Concen: 804.41 ug/l
RT: 2.429 min Scan# 228
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

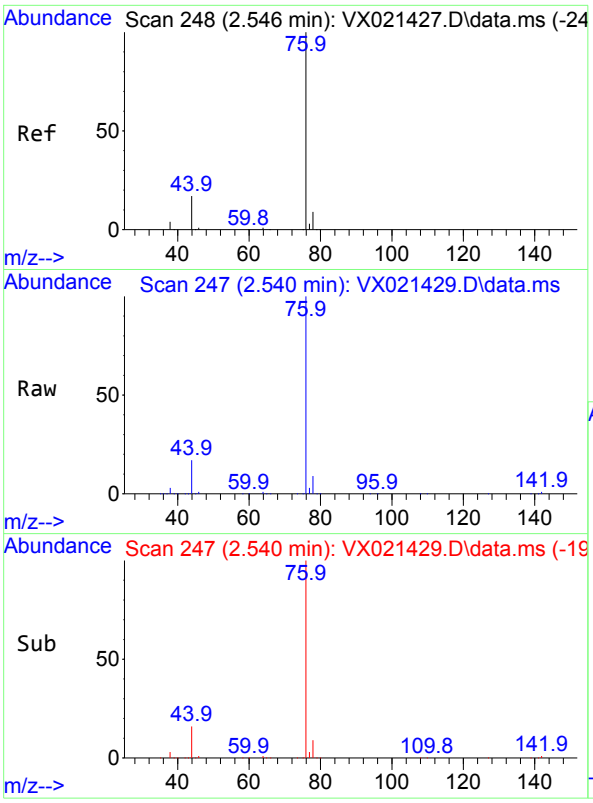
Tgt Ion: 43 Resp: 382033

Ion	Ratio	Lower	Upper
43	100		
58	27.7	27.8	41.8#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

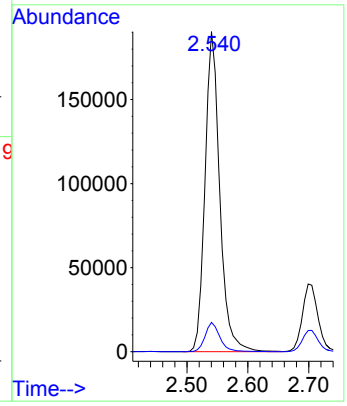
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

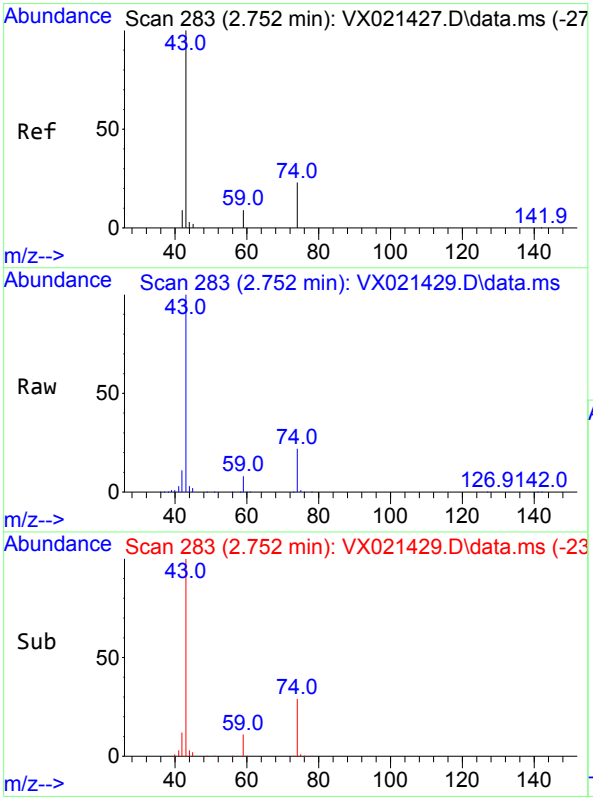


#17
Carbon Disulfide
Concen: 131.00 ug/l
RT: 2.540 min Scan# 247
Delta R.T. -0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 76 Resp: 320016

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8

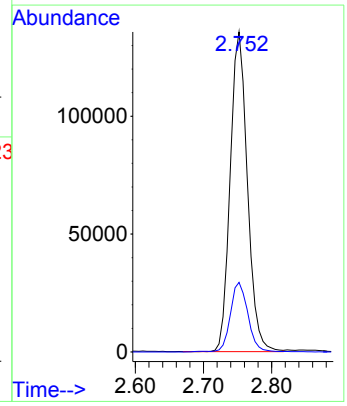




#18
Methyl Acetate
Concen: 179.02 ug/l
RT: 2.752 min Scan# 283
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

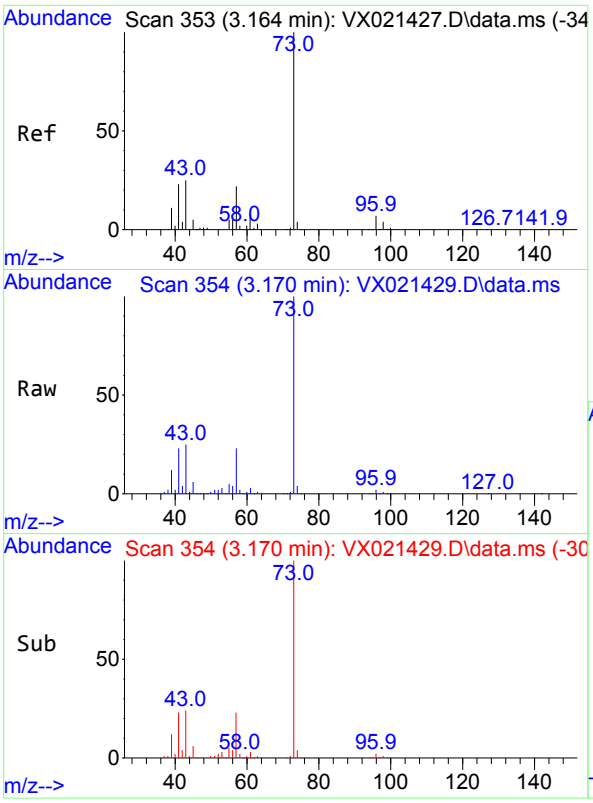
Tgt Ion: 43 Resp: 238241

Ion	Ratio	Lower	Upper
43	100		
74	22.2	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

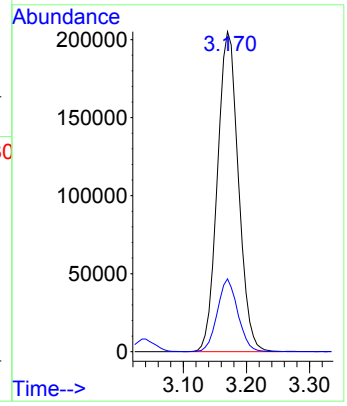
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

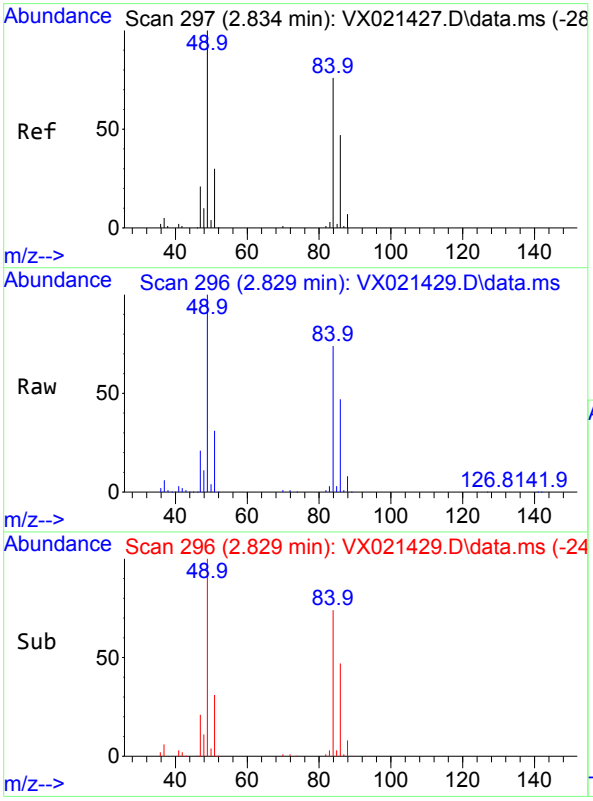


#19
Methyl tert-butyl Ether
Concen: 159.44 ug/l
RT: 3.170 min Scan# 354
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 73 Resp: 473343

Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.1	25.7

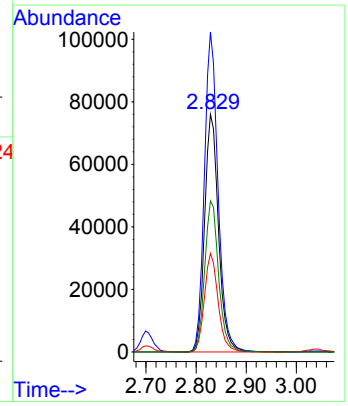




#20
Methylene Chloride
Concen: 150.88 ug/l
RT: 2.829 min Scan# 296
Delta R.T. -0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

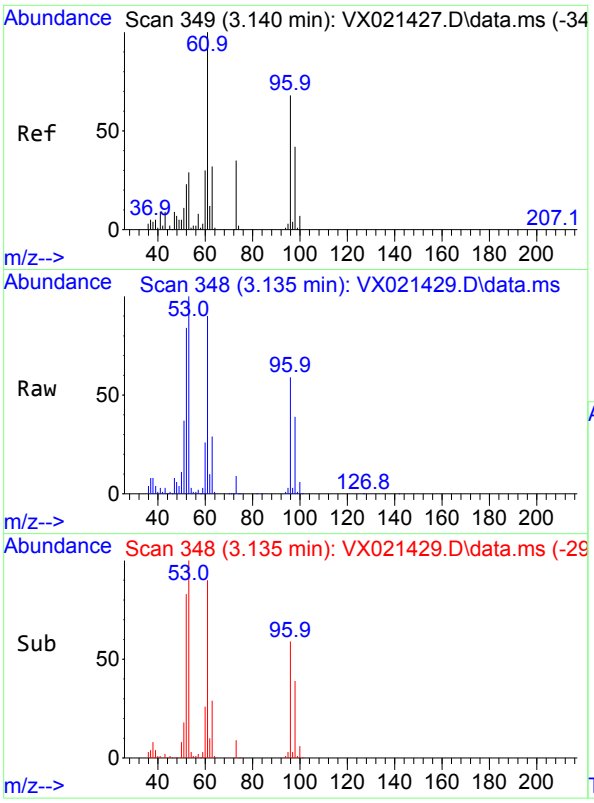
Tgt Ion: 84 Resp: 146022

Ion	Ratio	Lower	Upper
84	100		
49	134.6	88.6	132.8#
51	41.5	27.0	40.6#
86	63.6	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

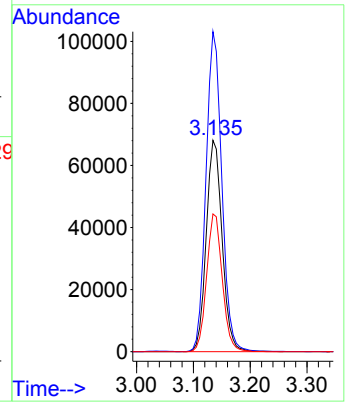
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

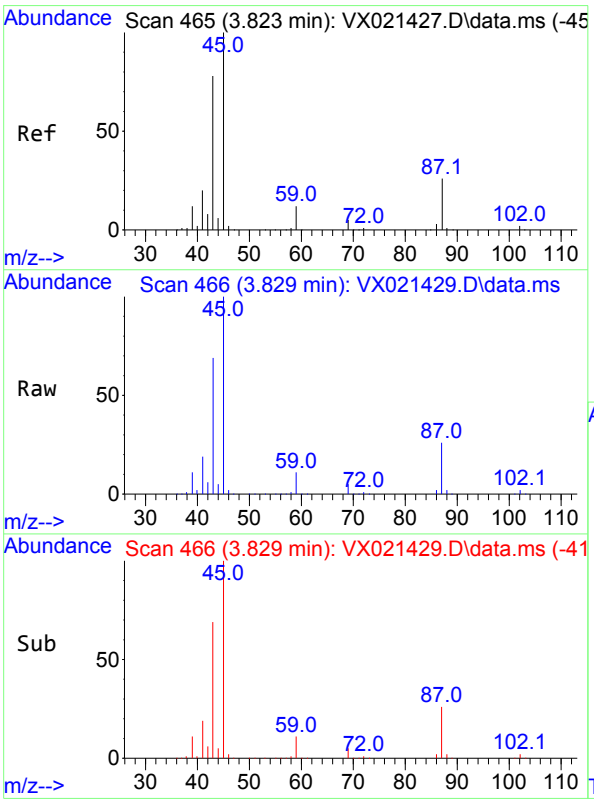


#21
trans-1,2-Dichloroethene
Concen: 149.12 ug/l
RT: 3.135 min Scan# 348
Delta R.T. -0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 96 Resp: 131962

Ion	Ratio	Lower	Upper
96	100		
61	151.3	107.7	161.5
98	65.2	50.4	75.6

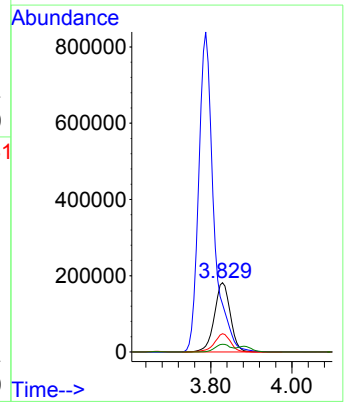




#22
Diisopropyl ether
Concen: 157.38 ug/l
RT: 3.829 min Scan# 466
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

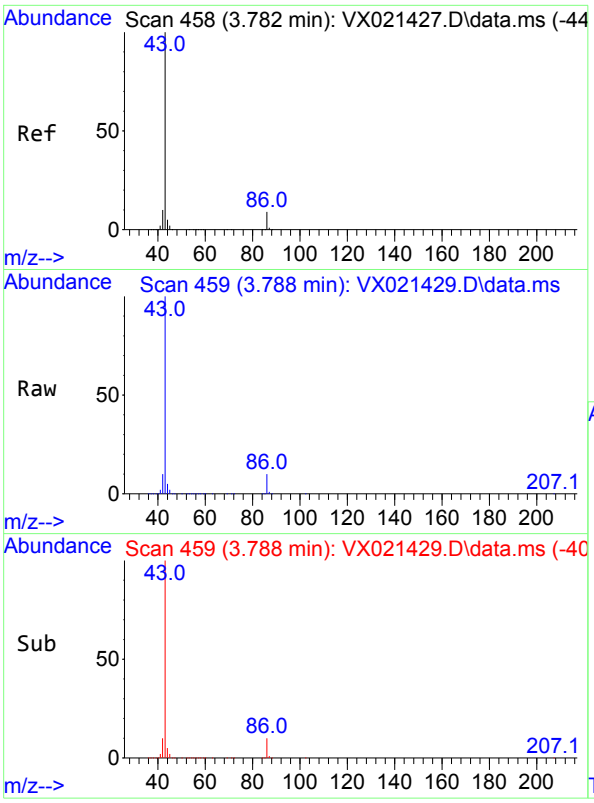
Tgt Ion: 45 Resp: 493223

Ion	Ratio	Lower	Upper
45	100		
43	68.7	58.0	87.0
87	26.3	25.4	38.0
59	11.1	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

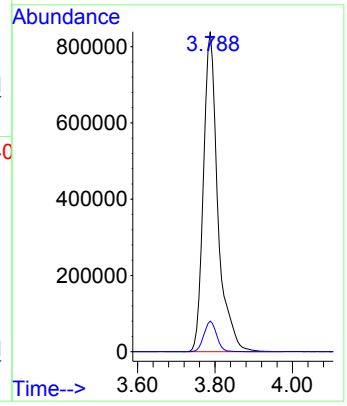
Manual Integrations APPROVED
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3/25/2021 9:49:41 AM

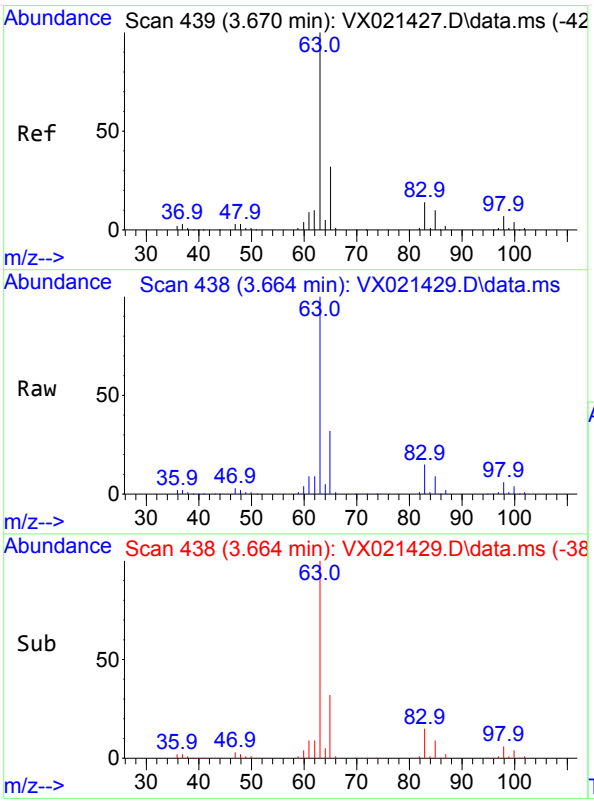


#23
Vinyl Acetate
Concen: 795.91 ug/l
RT: 3.788 min Scan# 459
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 43 Resp: 2159399

Ion	Ratio	Lower	Upper
43	100		
86	9.6	9.9	14.9#

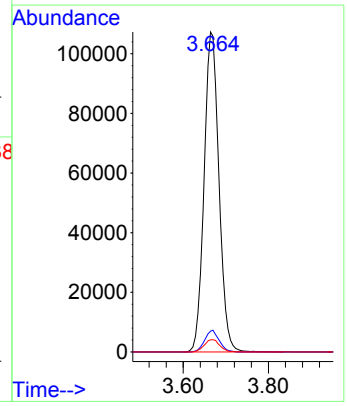




#24
1,1-Dichloroethane
Concen: 153.06 ug/l
RT: 3.664 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

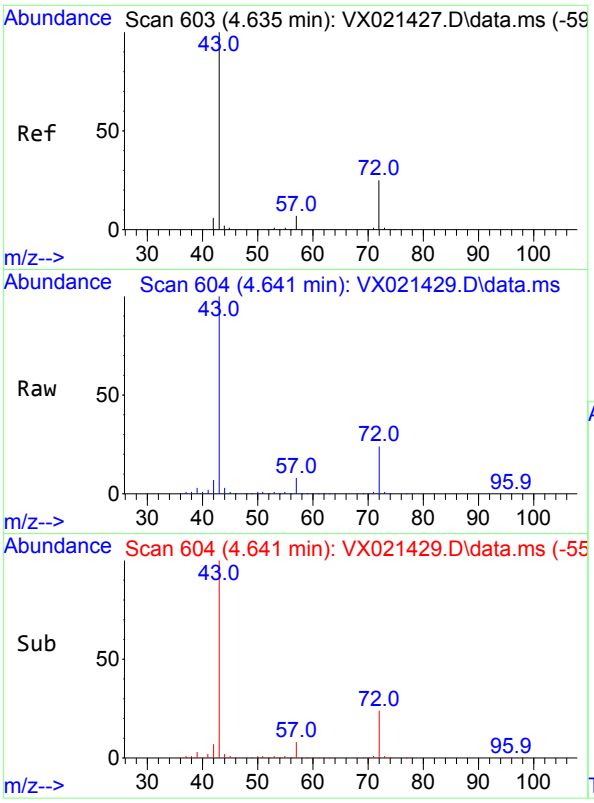
Tgt Ion: 63 Resp: 259577

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.8	11.2
100	3.8	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

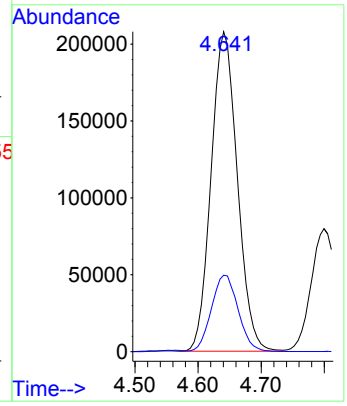
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

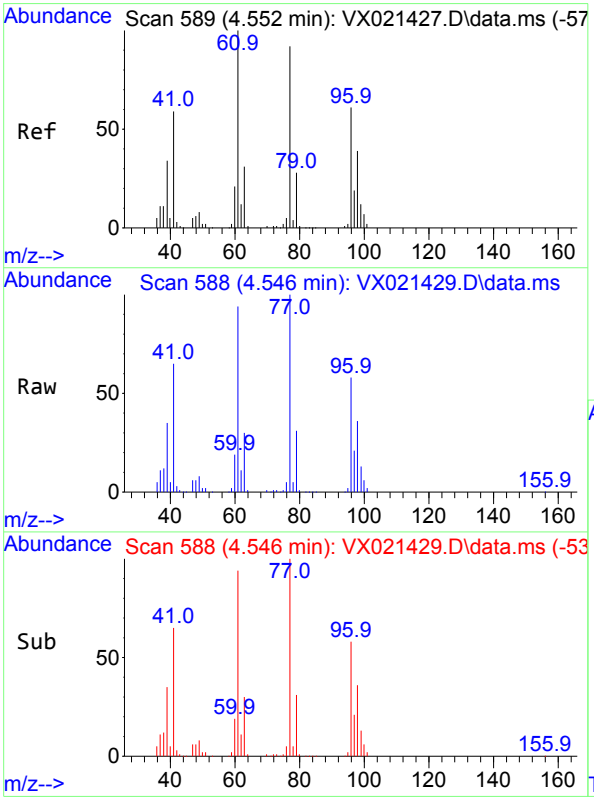


#25
2-Butanone
Concen: 824.57 ug/l
RT: 4.641 min Scan# 604
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 43 Resp: 598754

Ion	Ratio	Lower	Upper
43	100		
72	23.8	23.7	35.5

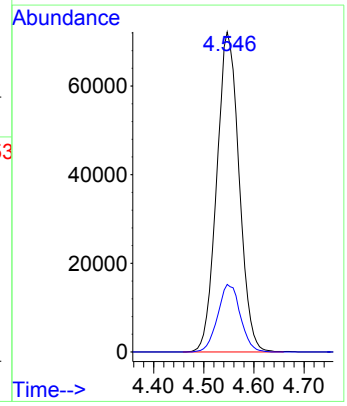




#26
2,2-Dichloropropane
Concen: 151.51 ug/l
RT: 4.546 min Scan# 588
Delta R.T. -0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

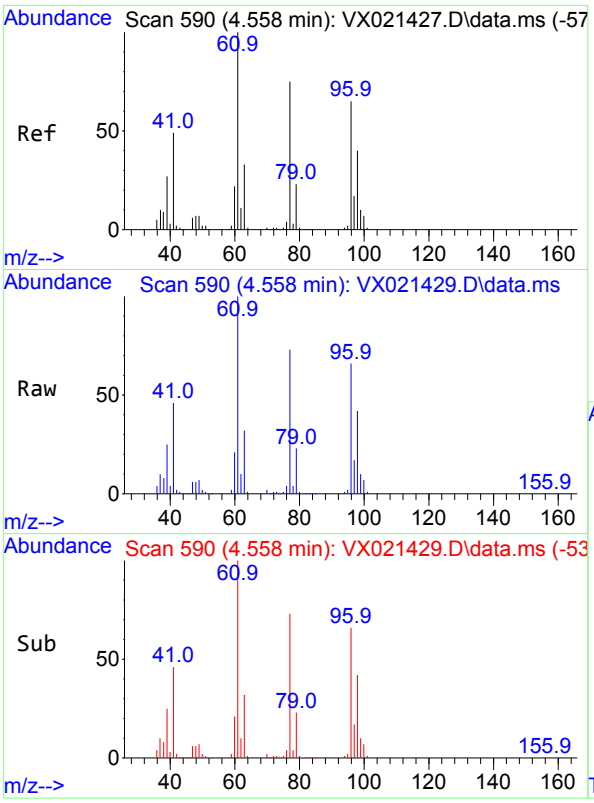
Tgt Ion: 77 Resp: 223469

Ion	Ratio	Lower	Upper
77	100		
97	21.4	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

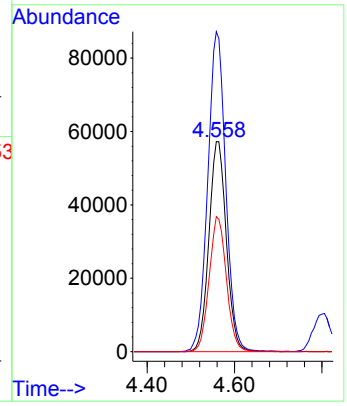
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

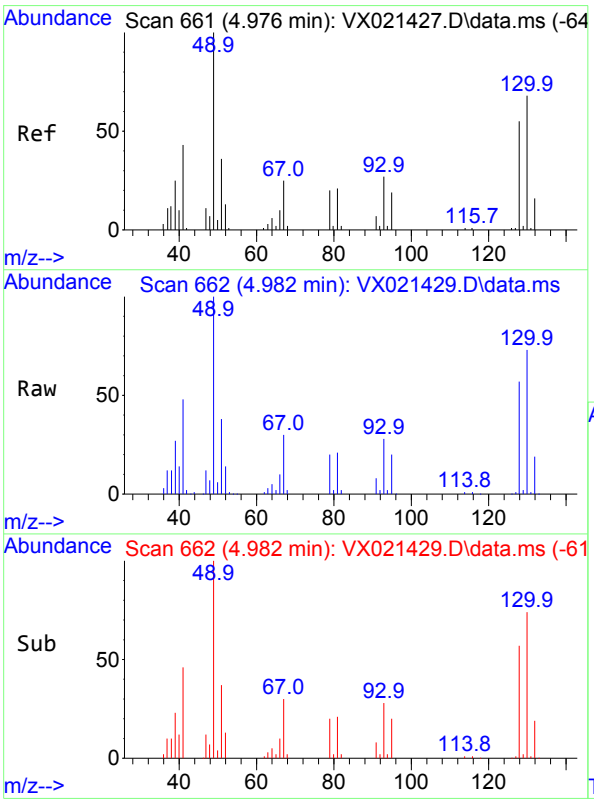


#27
cis-1,2-Dichloroethene
Concen: 156.17 ug/l
RT: 4.558 min Scan# 590
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 96 Resp: 158997

Ion	Ratio	Lower	Upper
96	100		
61	156.5	0.0	285.6
98	63.7	0.0	129.6

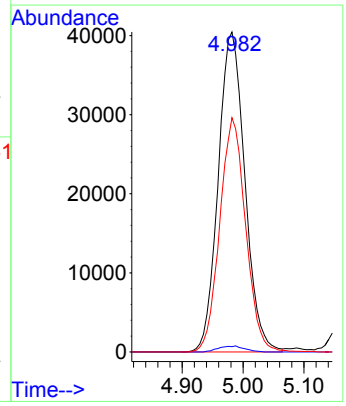




#28
Bromochloromethane
Concen: 153.59 ug/l
RT: 4.982 min Scan# 662
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

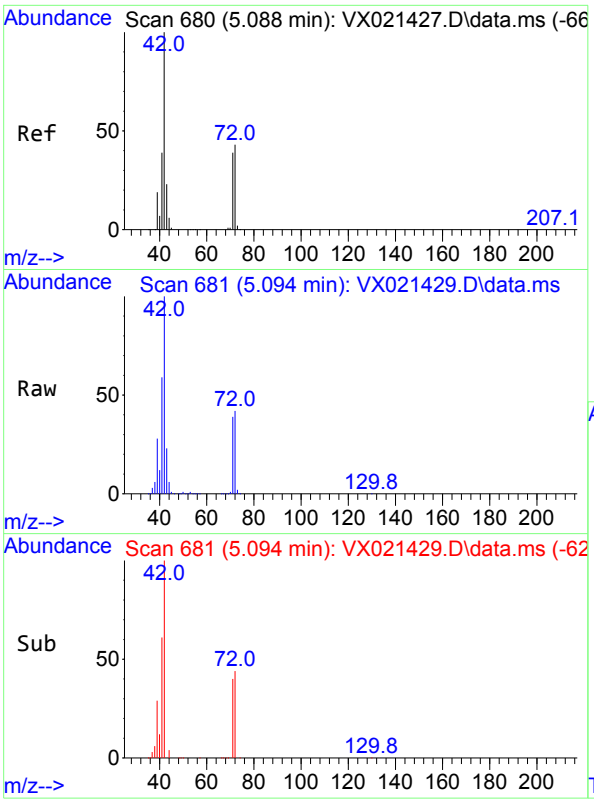
Tgt Ion: 49 Resp: 122924

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	71.2	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

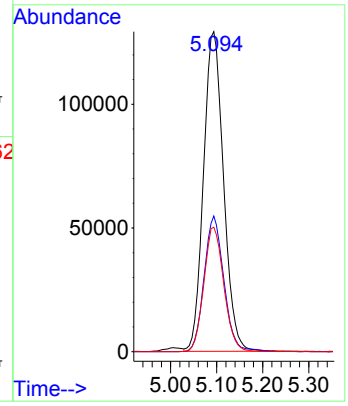
Manual Integrations APPROVED
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3/25/2021 9:49:41 AM

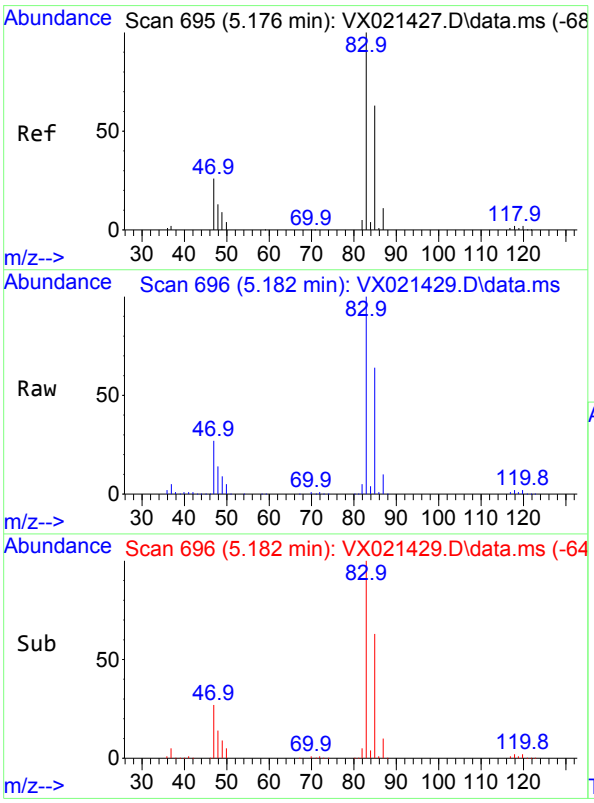


#29
Tetrahydrofuran
Concen: 817.24 ug/l
RT: 5.094 min Scan# 681
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 42 Resp: 391090

Ion	Ratio	Lower	Upper
42	100		
72	42.0	41.7	62.5
71	38.9	38.4	57.6

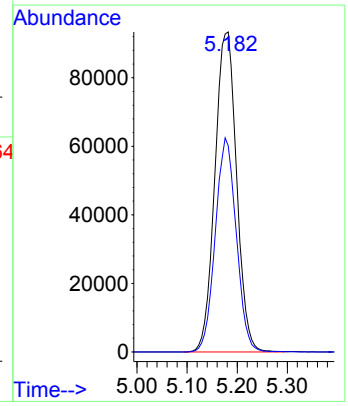




#30
Chloroform
Concen: 158.99 ug/l
RT: 5.182 min Scan# 696
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

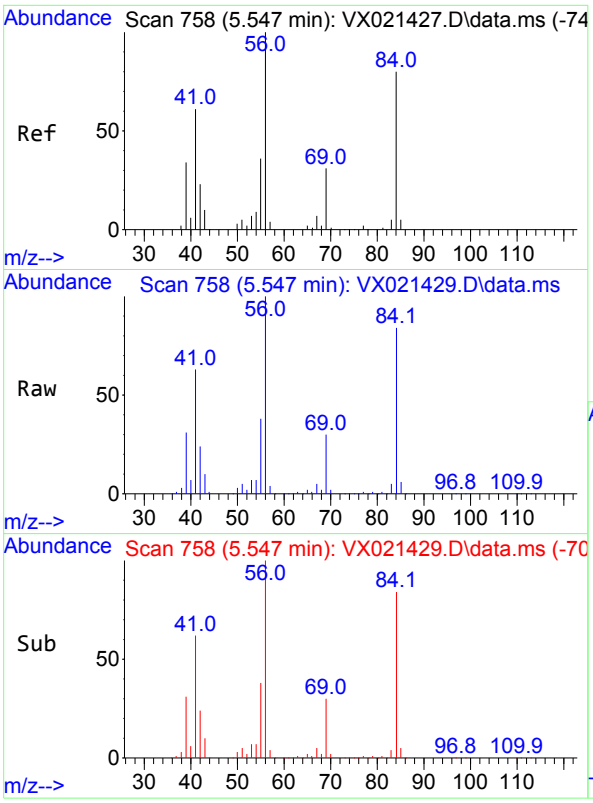
Tgt Ion: 83 Resp: 280720

Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

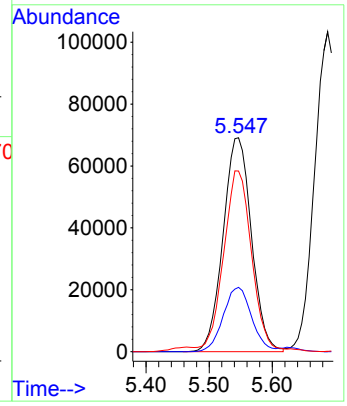
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

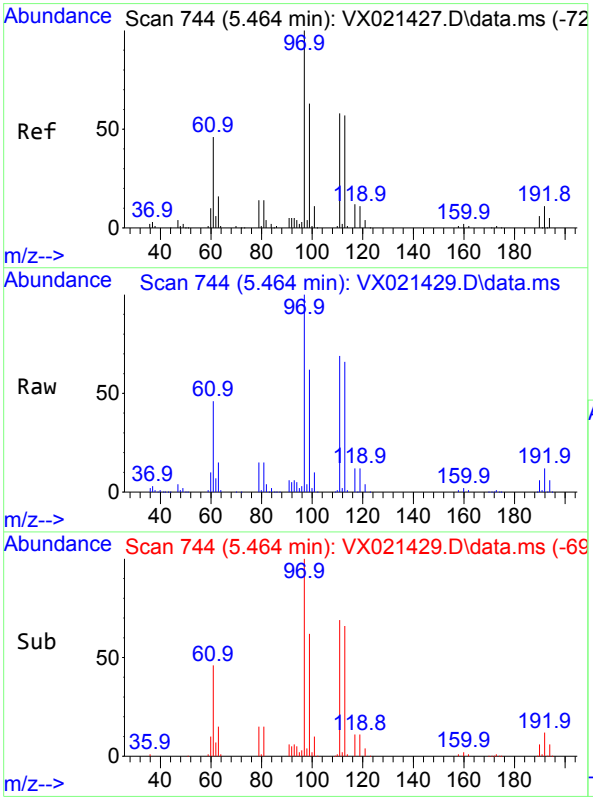


#31
Cyclohexane
Concen: 140.97 ug/l
RT: 5.547 min Scan# 758
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 56 Resp: 215576

Ion	Ratio	Lower	Upper
56	100		
69	30.1	25.3	37.9
84	83.1	71.4	107.0

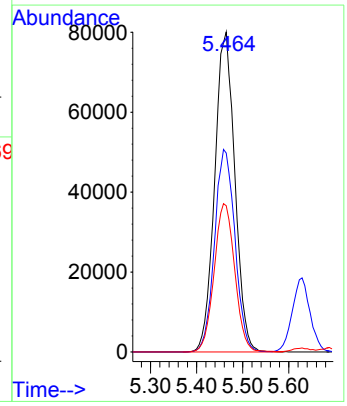




#32
1,1,1-Trichloroethane
Concen: 155.13 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

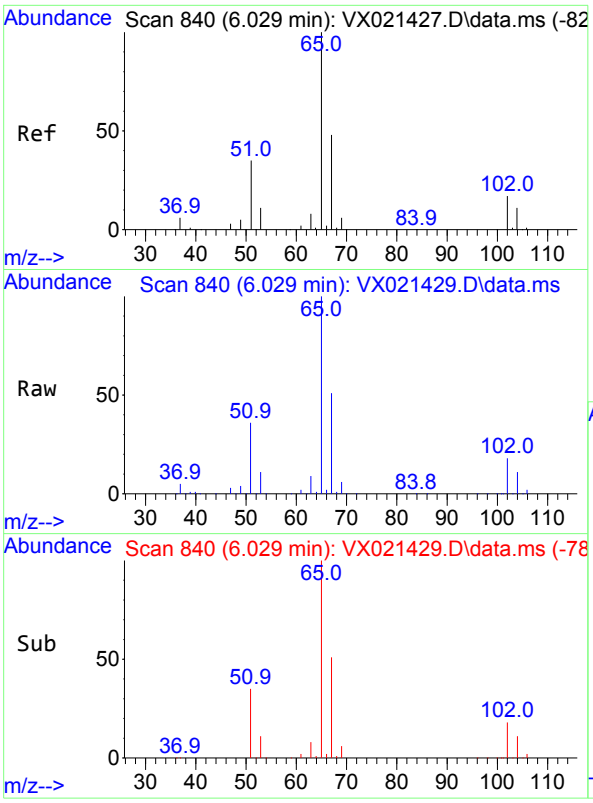
Tgt Ion: 97 Resp: 242820

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.5	77.3
61	47.6	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

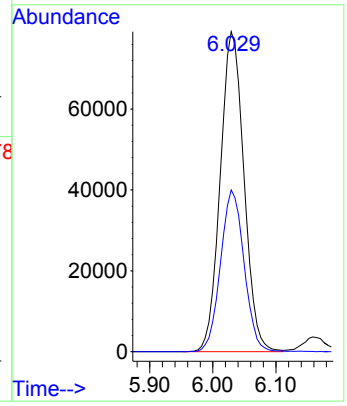
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

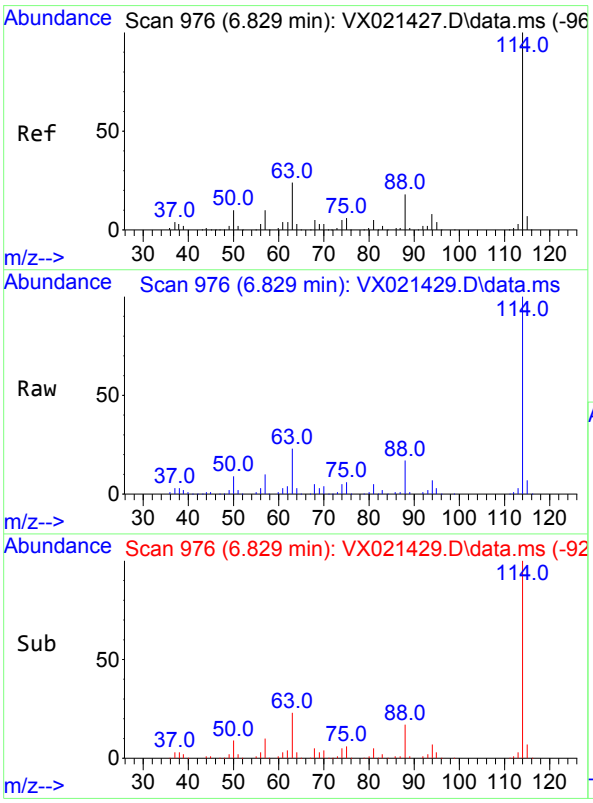


#33
1,2-Dichloroethane-d4
Concen: 161.39 ug/l
RT: 6.029 min Scan# 840
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 65 Resp: 206597

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	105.4

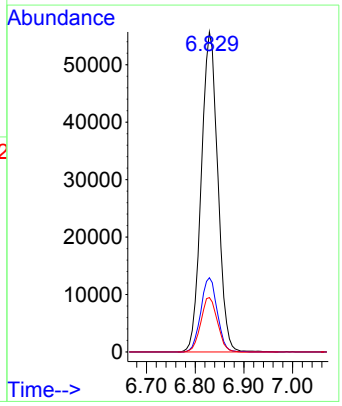




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

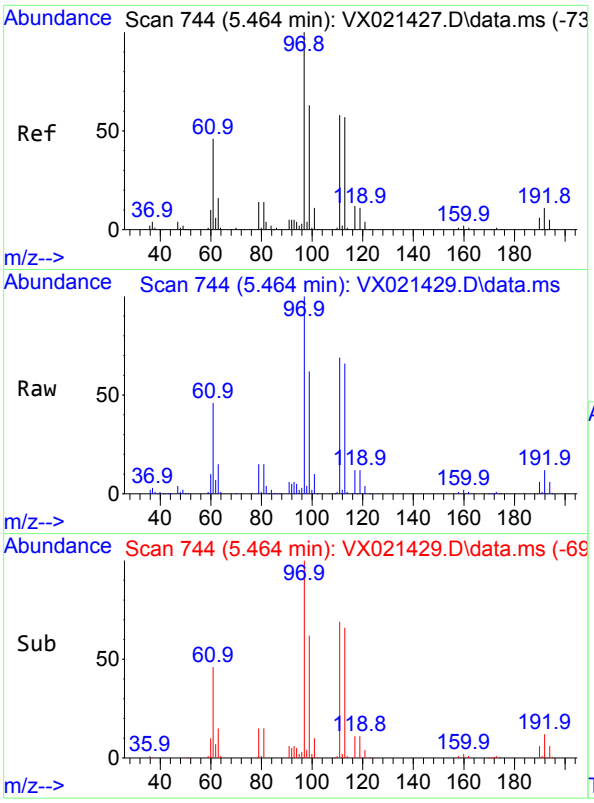
Tgt Ion:114 Resp: 130602

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	40.8
88	17.0	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

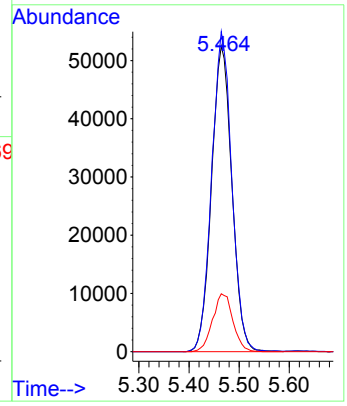
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

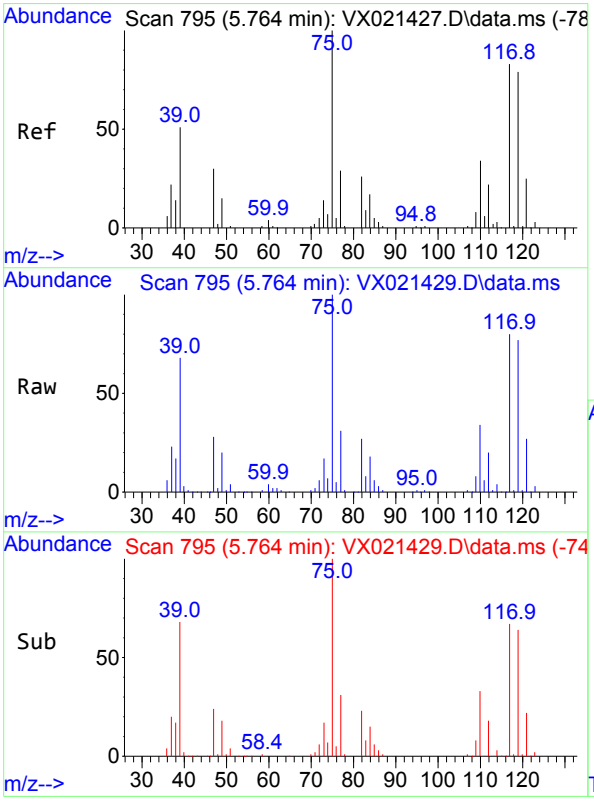


#35
Dibromofluoromethane
Concen: 166.25 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:113 Resp: 148012

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.9	122.9
192	18.9	16.7	25.1

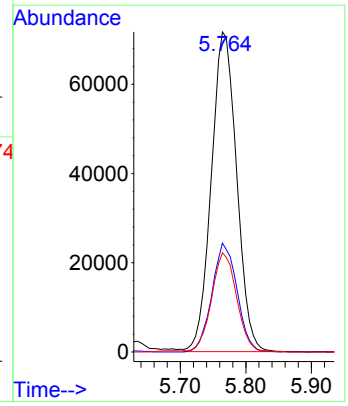




#36
1,1-Dichloropropene
Concen: 146.75 ug/l
RT: 5.764 min Scan# 795
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

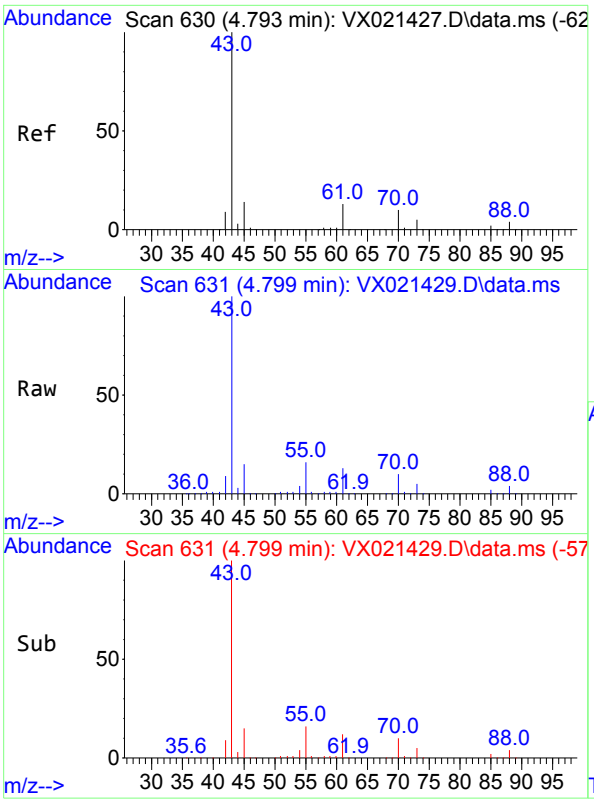
Tgt Ion: 75 Resp: 192219

Ion	Ratio	Lower	Upper
75	100		
110	33.7	18.1	54.4
77	30.8	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

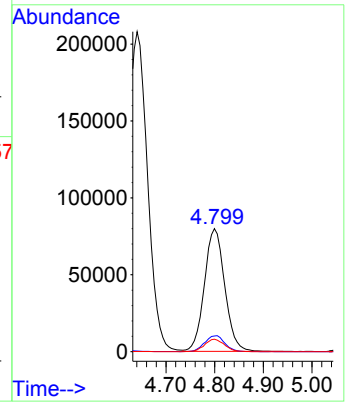
Manual Integrations APPROVED
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3/25/2021 9:49:41 AM

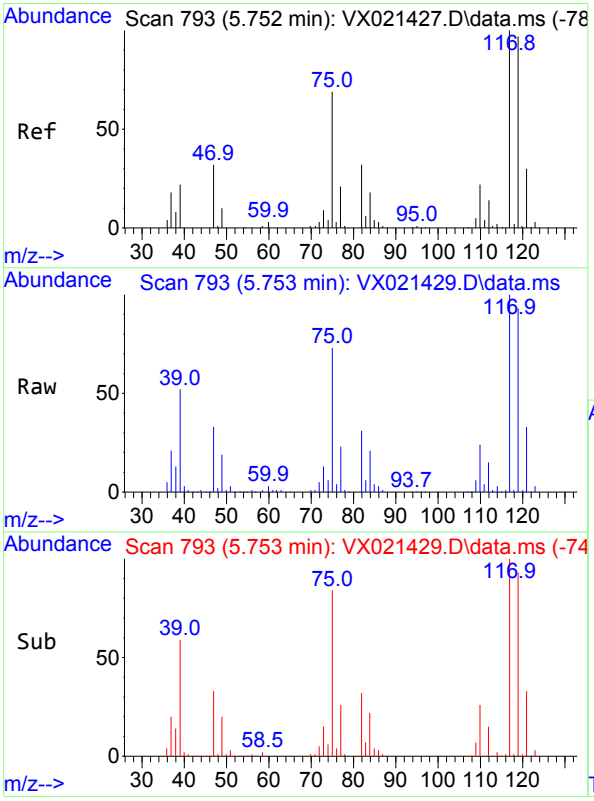


#37
Ethyl Acetate
Concen: 153.07 ug/l
RT: 4.799 min Scan# 631
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 43 Resp: 231805

Ion	Ratio	Lower	Upper
43	100		
61	13.0	12.8	19.2
70	9.9	10.5	15.7#

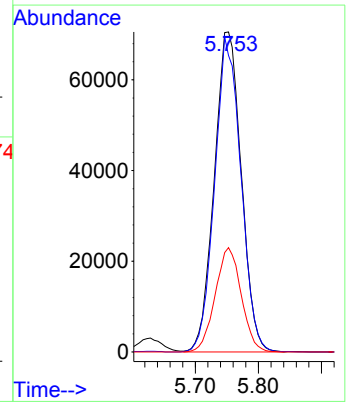




#38
Carbon Tetrachloride
Concen: 153.52 ug/l
RT: 5.753 min Scan# 793
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

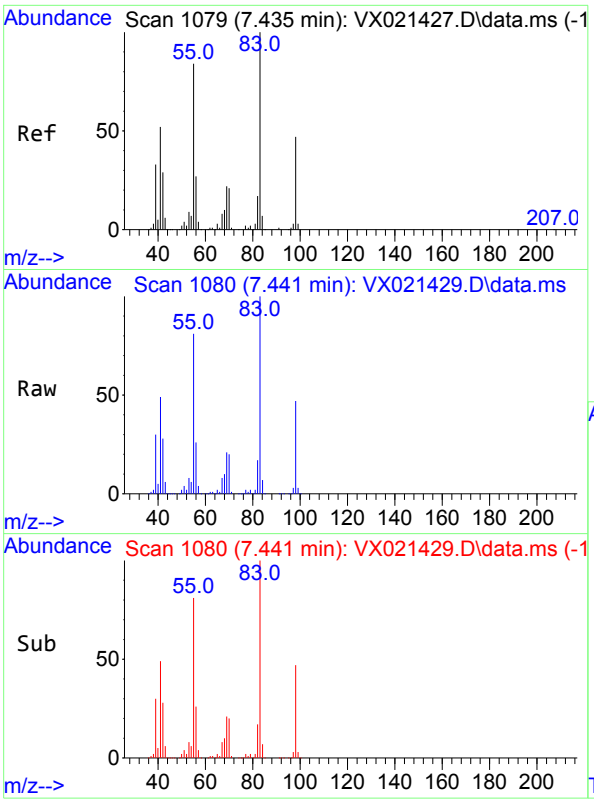
Tgt Ion:117 Resp: 209405

Ion	Ratio	Lower	Upper
117	100		
119	92.5	76.2	114.2
121	32.6	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

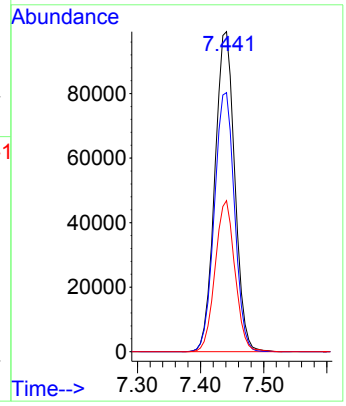
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

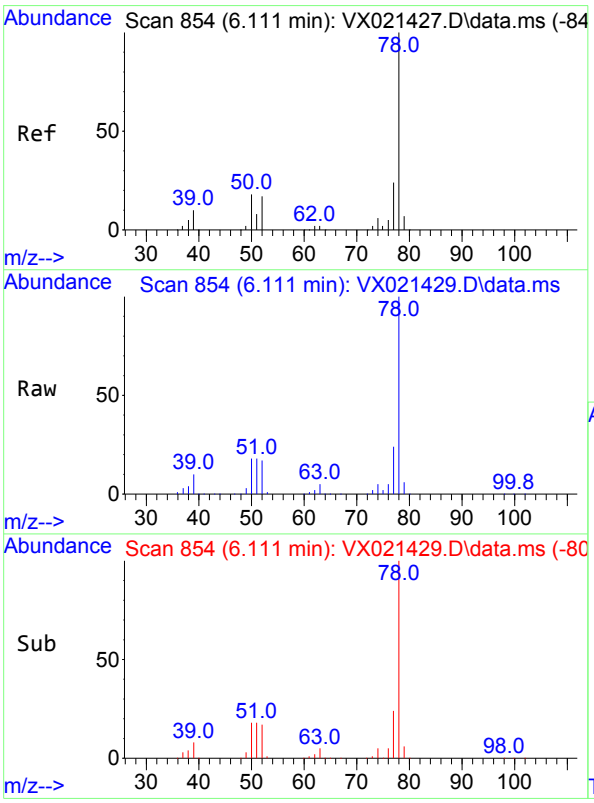


#39
Methylcyclohexane
Concen: 149.47 ug/l
RT: 7.441 min Scan# 1080
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 83 Resp: 217476

Ion	Ratio	Lower	Upper
83	100		
55	81.0	58.9	88.3
98	47.2	38.1	57.1

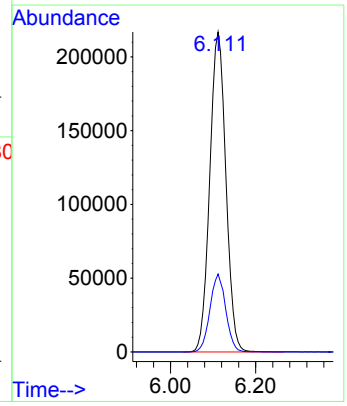




#40
Benzene
Concen: 157.18 ug/l
RT: 6.111 min Scan# 854
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

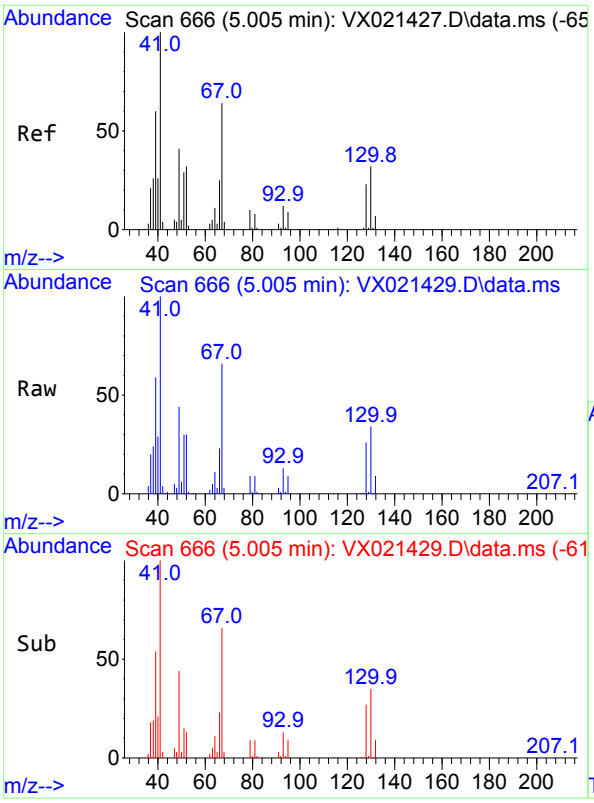
Tgt Ion: 78 Resp: 568473

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

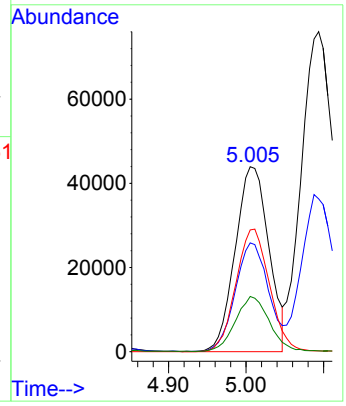
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

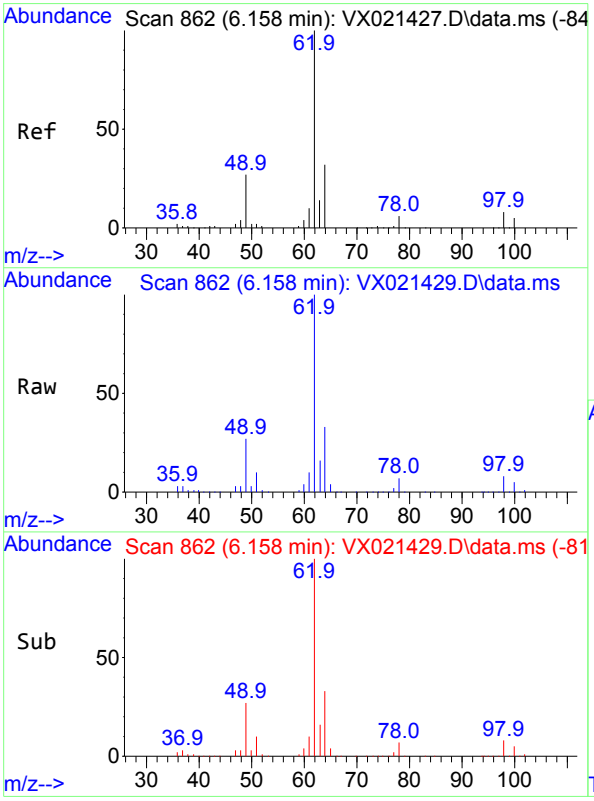


#41
Methacrylonitrile
Concen: 151.07 ug/l
RT: 5.005 min Scan# 666
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 41 Resp: 132567

Ion	Ratio	Lower	Upper
41	100		
39	58.0	42.5	63.7
67	66.5	65.0	97.6
52	30.7	25.3	37.9

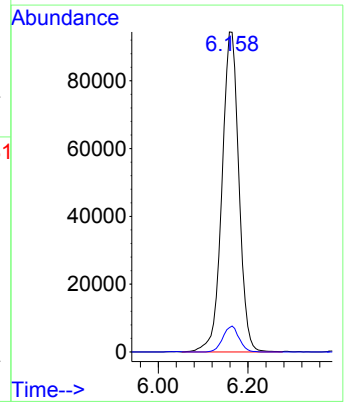




#42
1,2-Dichloroethane
Concen: 158.20 ug/l
RT: 6.158 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

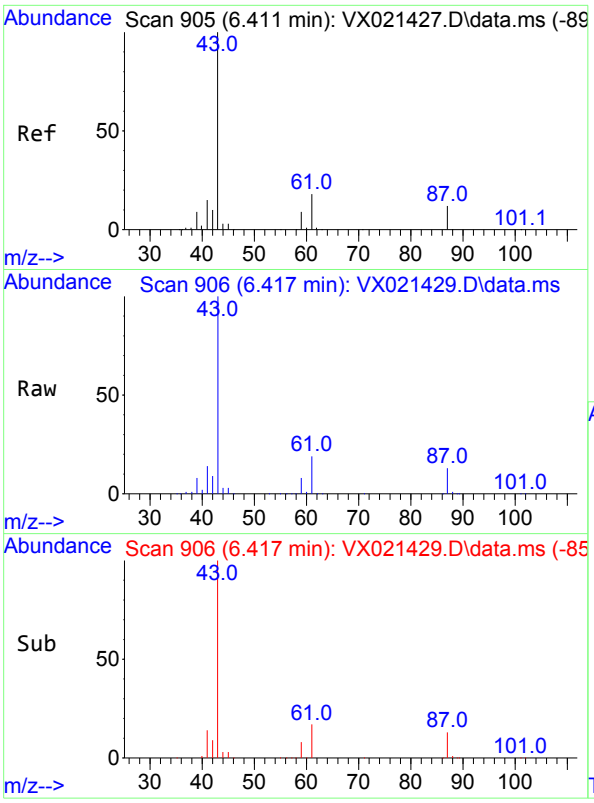
Tgt Ion: 62 Resp: 247644

Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

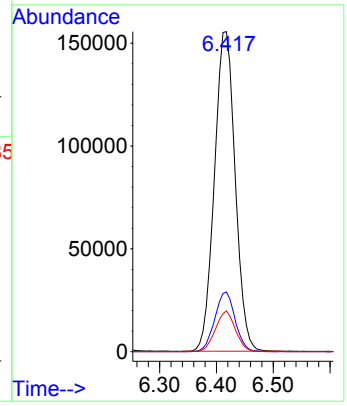
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

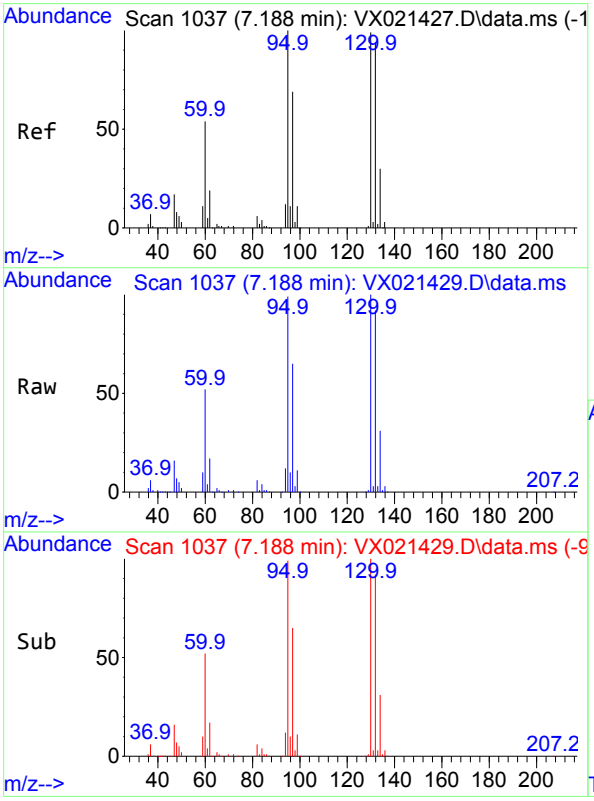


#43
Isopropyl Acetate
Concen: 158.58 ug/l
RT: 6.417 min Scan# 906
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 43 Resp: 394005

Ion	Ratio	Lower	Upper
43	100		
61	18.4	18.2	27.4
87	12.3	12.5	18.7#

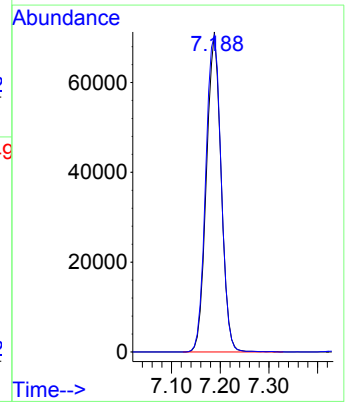




#44
Trichloroethene
Concen: 154.43 ug/l
RT: 7.188 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

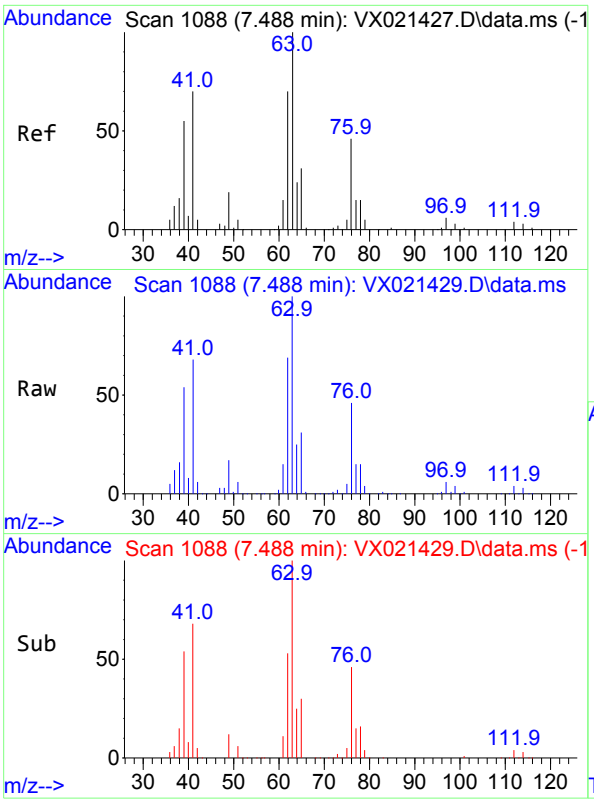
Tgt Ion:130 Resp: 148232

Ion	Ratio	Lower	Upper
130	100		
95	98.9	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

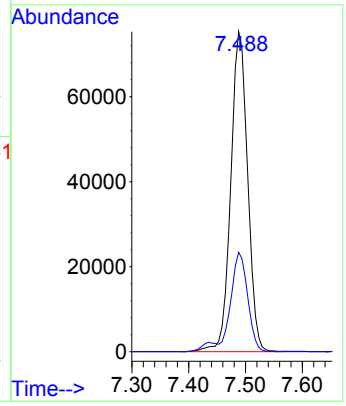
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

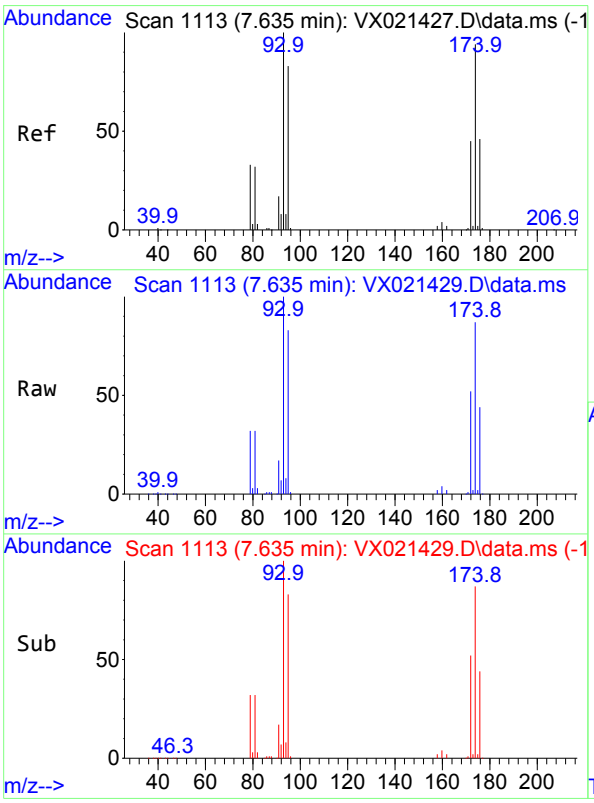


#45
1,2-Dichloropropane
Concen: 159.85 ug/l
RT: 7.488 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 63 Resp: 155666

Ion	Ratio	Lower	Upper
63	100		
65	31.0	25.7	38.5

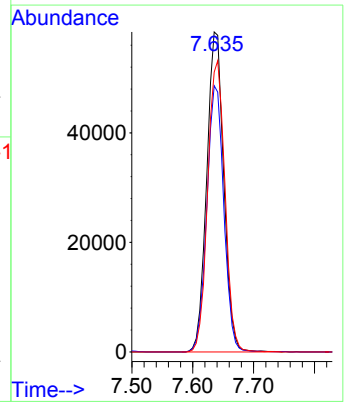




#46
Dibromomethane
Concen: 159.19 ug/l
RT: 7.635 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

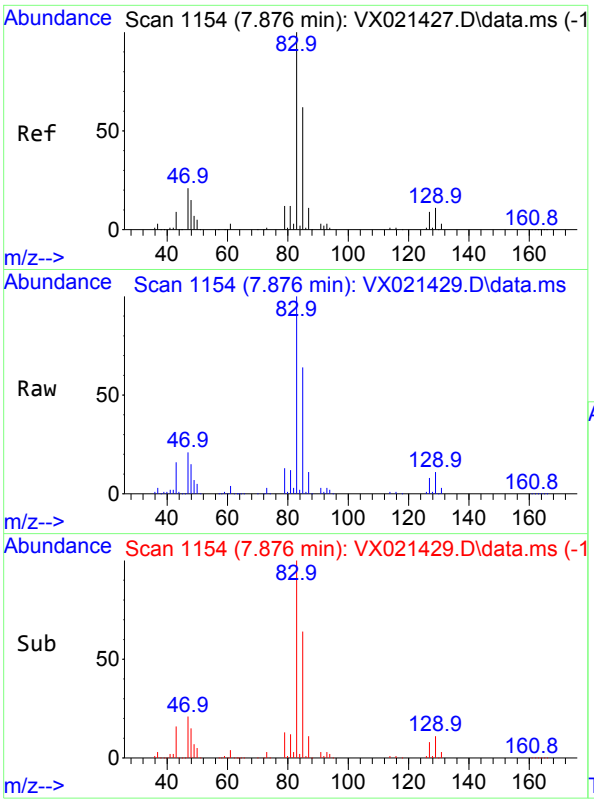
Tgt Ion: 93 Resp: 113771

Ion	Ratio	Lower	Upper
93	100		
95	83.0	66.8	100.2
174	92.1	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

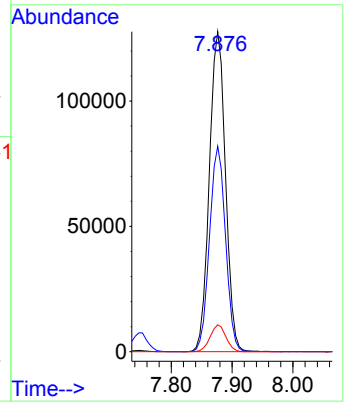
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

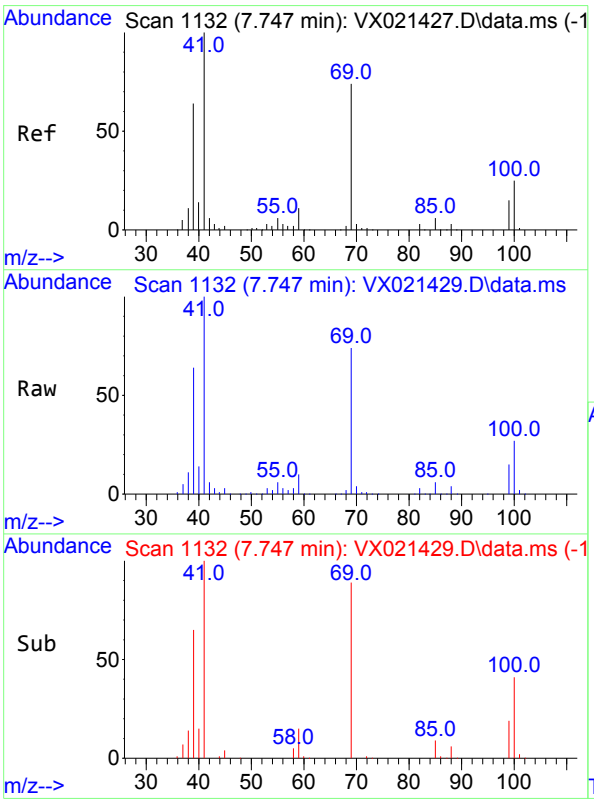


#47
Bromodichloromethane
Concen: 164.48 ug/l
RT: 7.876 min Scan# 1154
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 83 Resp: 235248

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.4	77.0
127	8.4	6.8	10.2

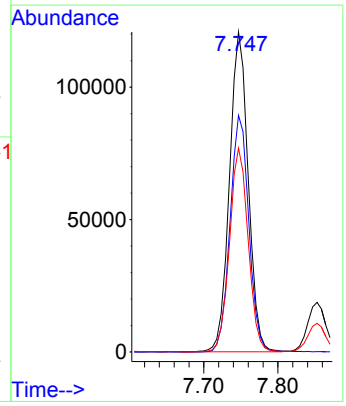




#48
Methyl methacrylate
Concen: 159.60 ug/l
RT: 7.747 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

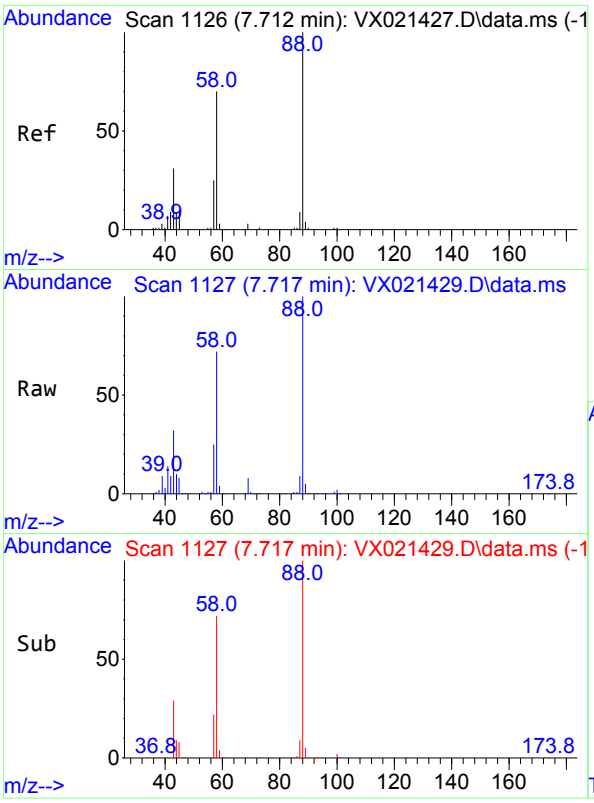
Tgt Ion: 41 Resp: 211540

Ion	Ratio	Lower	Upper
41	100		
69	74.5	76.0	114.0#
39	63.7	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

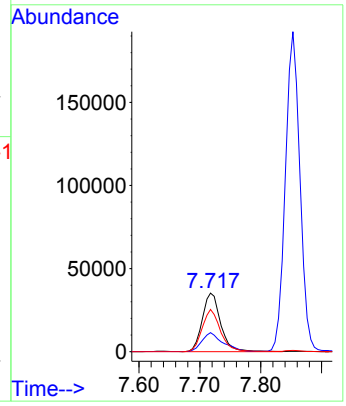
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

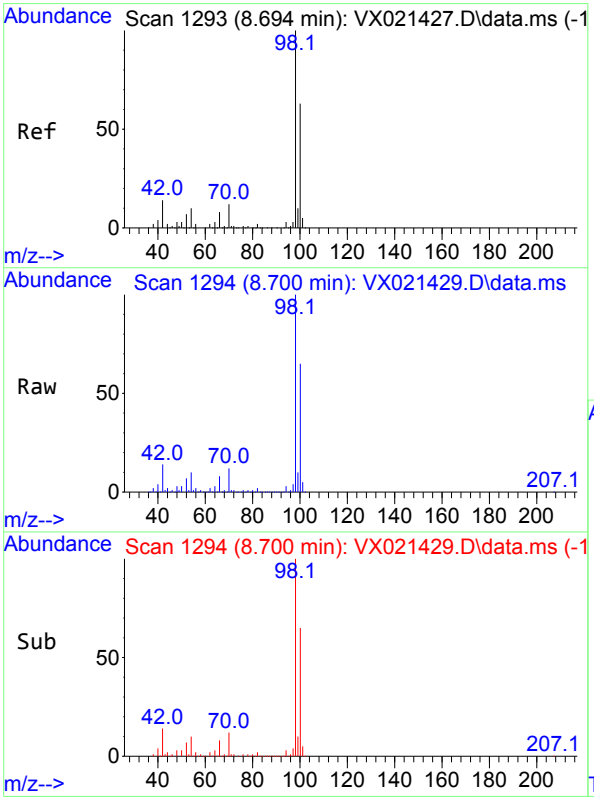


#49
1,4-Dioxane
Concen: 2985.89 ug/l
RT: 7.717 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 88 Resp: 73400

Ion	Ratio	Lower	Upper
88	100		
43	37.0	23.2	34.8#
58	72.3	55.0	82.4

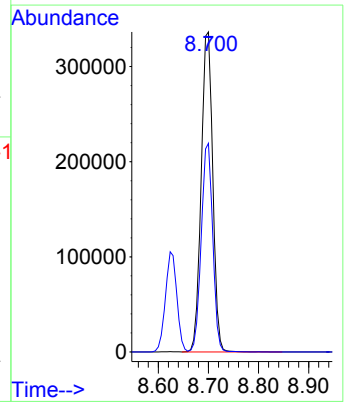




#50
Toluene-d8
Concen: 165.71 ug/l
RT: 8.700 min Scan# 1294
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

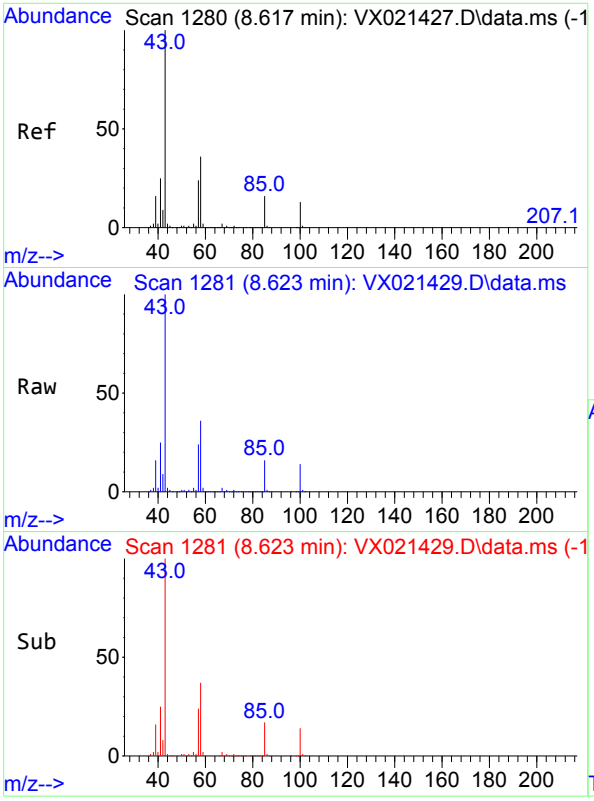
Tgt Ion: 98 Resp: 537648

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

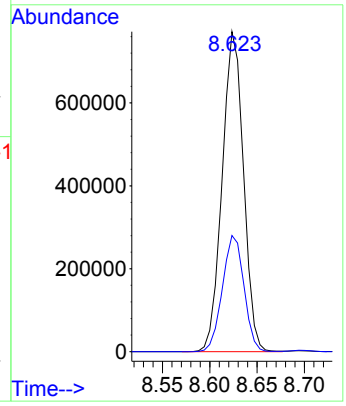
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

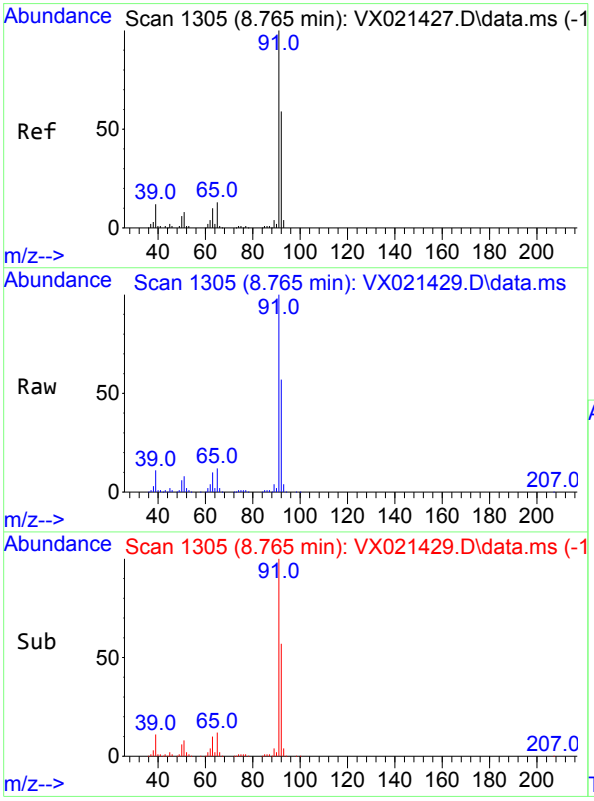


#51
4-Methyl-2-Pentanone
Concen: 827.75 ug/l
RT: 8.623 min Scan# 1281
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 43 Resp: 1208278

Ion	Ratio	Lower	Upper
43	100		
58	36.7	35.4	53.0

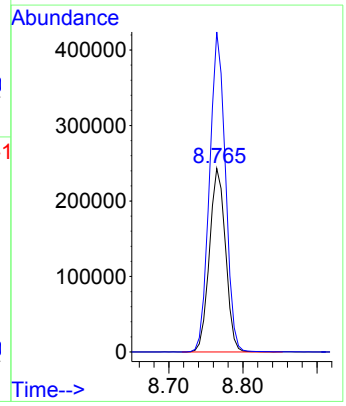




#52
Toluene
Concen: 163.70 ug/l
RT: 8.765 min Scan# 1305
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

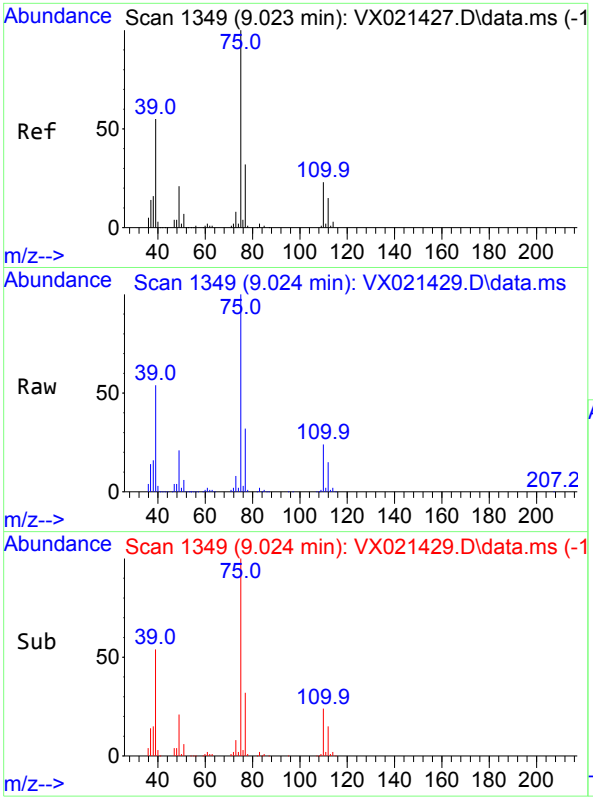
Tgt Ion: 92 Resp: 366475

Ion	Ratio	Lower	Upper
92	100		
91	172.2	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

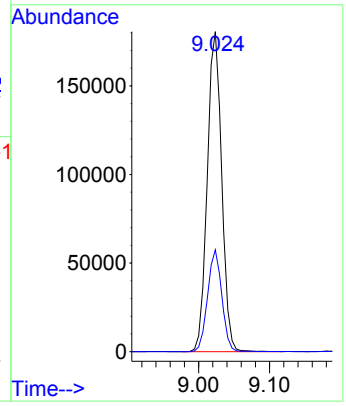
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

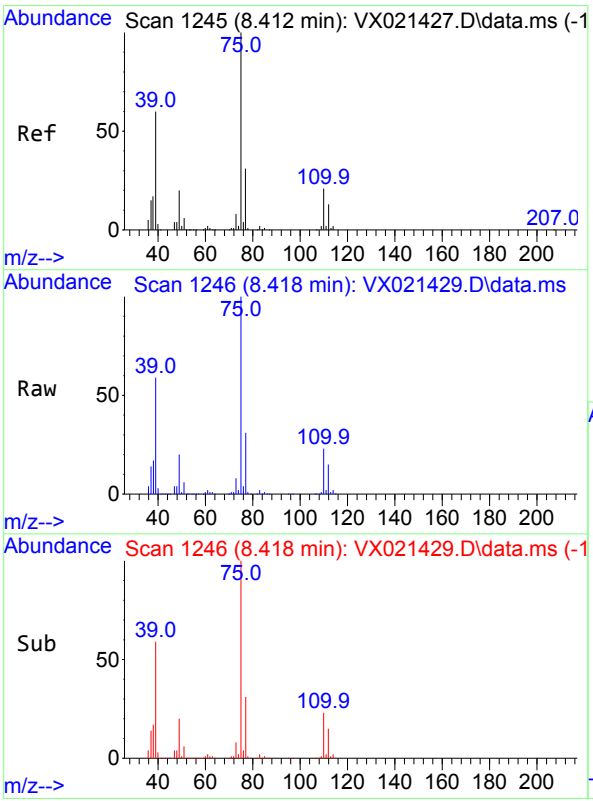


#53
t-1,3-Dichloropropene
Concen: 168.83 ug/l
RT: 9.024 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 75 Resp: 255377

Ion	Ratio	Lower	Upper
75	100		
77	31.8	24.9	37.3

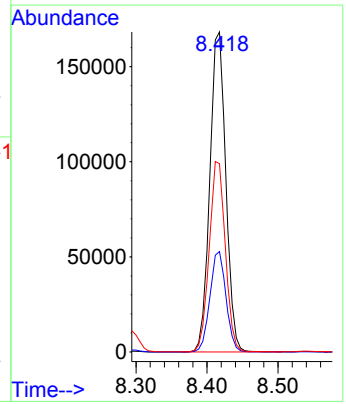




#54
cis-1,3-Dichloropropene
Concen: 163.92 ug/l
RT: 8.418 min Scan# 1246
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

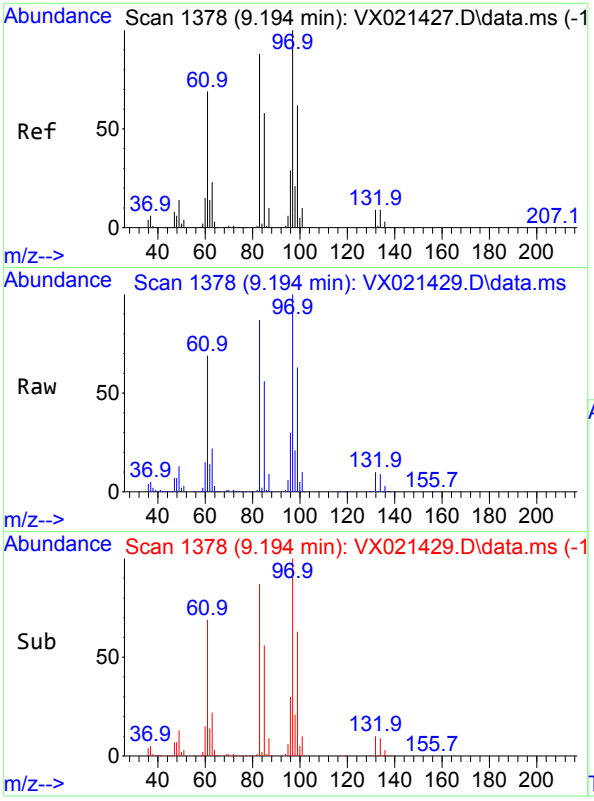
Tgt Ion: 75 Resp: 263971

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.7	38.5
39	58.8	35.1	52.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

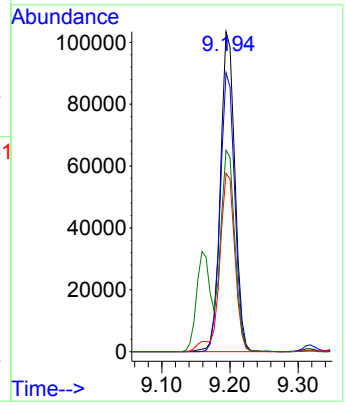
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3/25/2021 9:49:41 AM

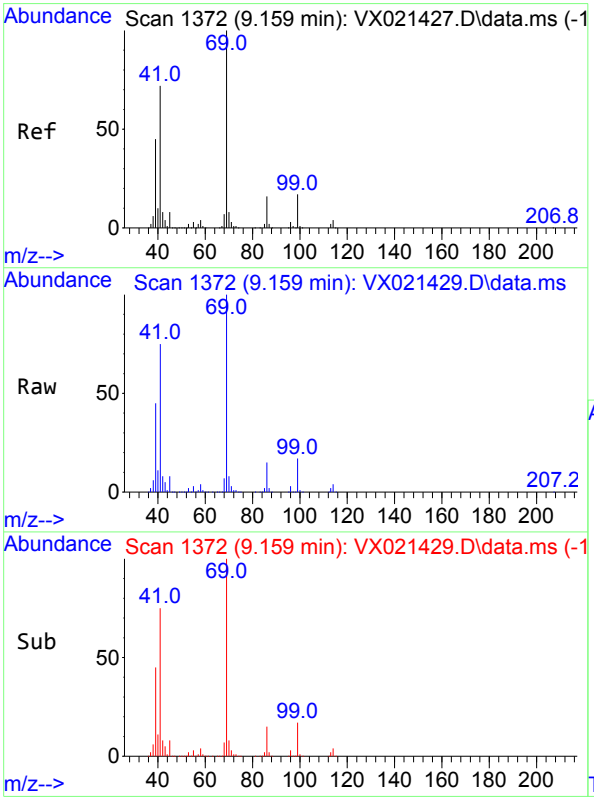


#55
1,1,2-Trichloroethane
Concen: 165.99 ug/l
RT: 9.194 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 97 Resp: 152675

Ion	Ratio	Lower	Upper
97	100		
83	87.2	69.3	103.9
85	55.7	44.3	66.5
99	62.9	50.3	75.5

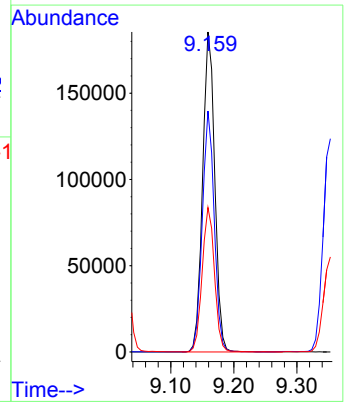




#56
Ethyl methacrylate
Concen: 168.42 ug/l
RT: 9.159 min Scan# 1372
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

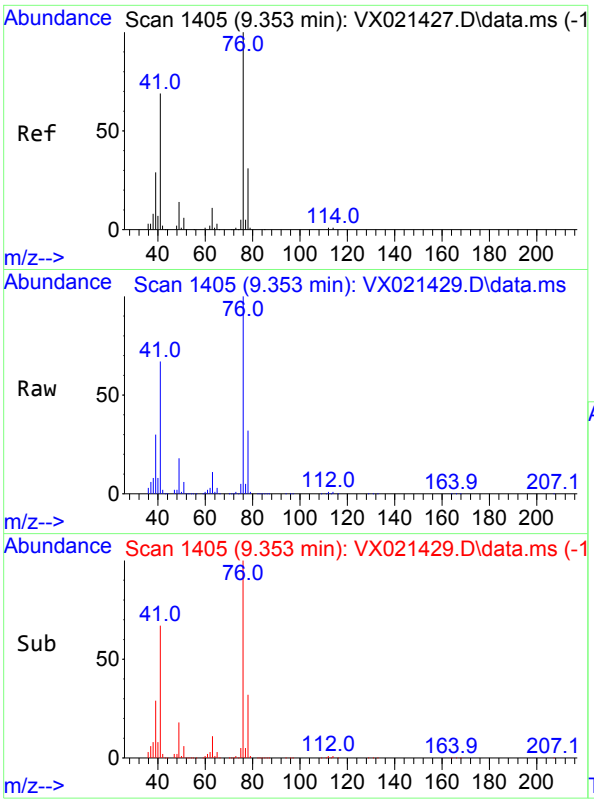
Tgt Ion: 69 Resp: 248059

Ion	Ratio	Lower	Upper
69	100		
41	74.0	46.8	70.2#
39	45.6	24.7	37.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

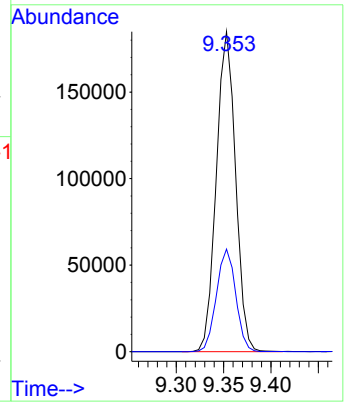
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

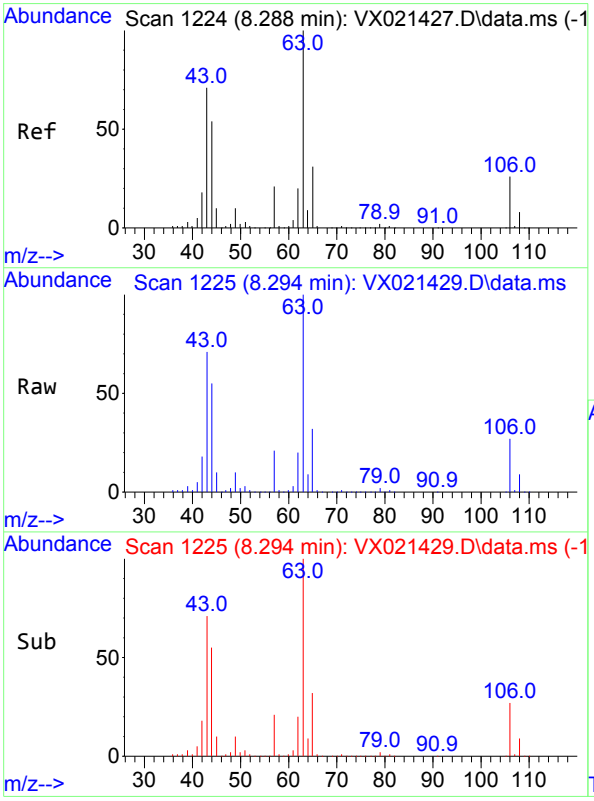


#57
1,3-Dichloropropane
Concen: 163.03 ug/l
RT: 9.353 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 76 Resp: 261121

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.2

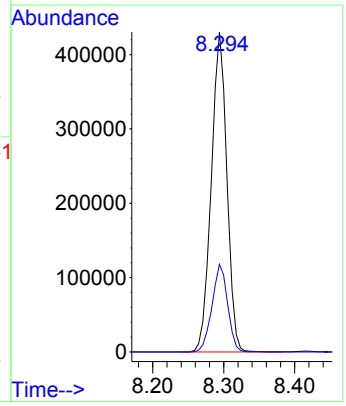




#58
2-Chloroethyl Vinyl ether
Concen: 809.30 ug/l
RT: 8.294 min Scan# 1225
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

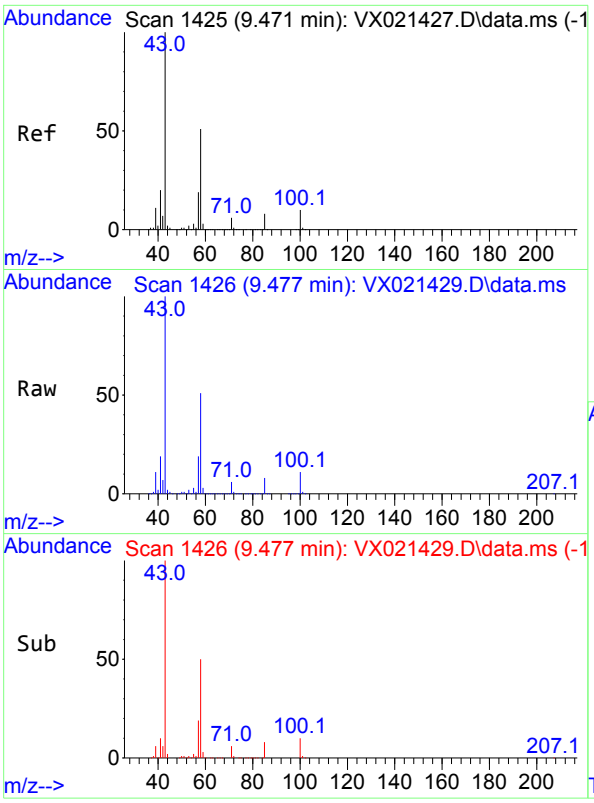
Tgt Ion: 63 Resp: 656572

Ion	Ratio	Lower	Upper
63	100		
106	27.3	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

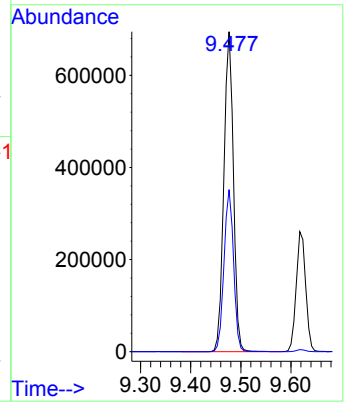
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

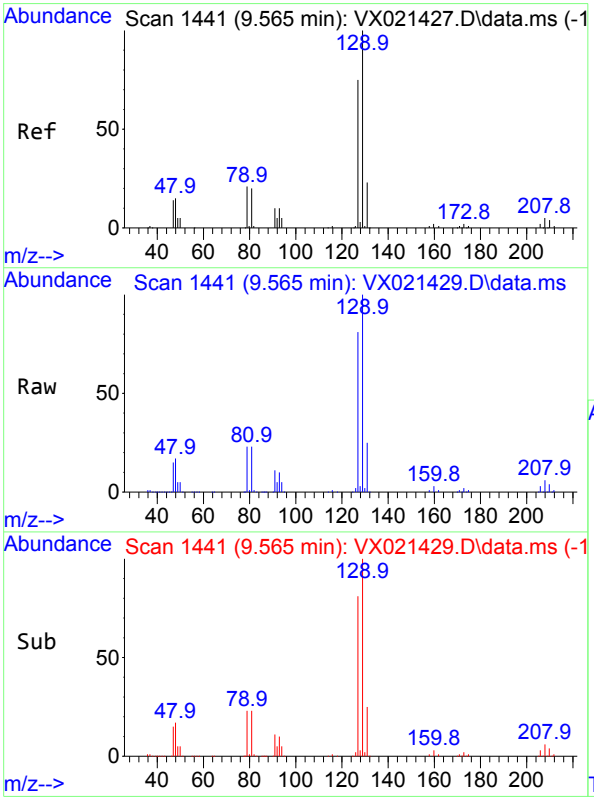


#59
2-Hexanone
Concen: 839.13 ug/l
RT: 9.477 min Scan# 1426
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 43 Resp: 916408

Ion	Ratio	Lower	Upper
43	100		
58	50.7	30.9	92.8

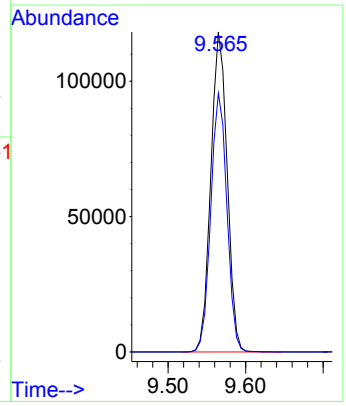




#60
Dibromochloromethane
Concen: 166.22 ug/l
RT: 9.565 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

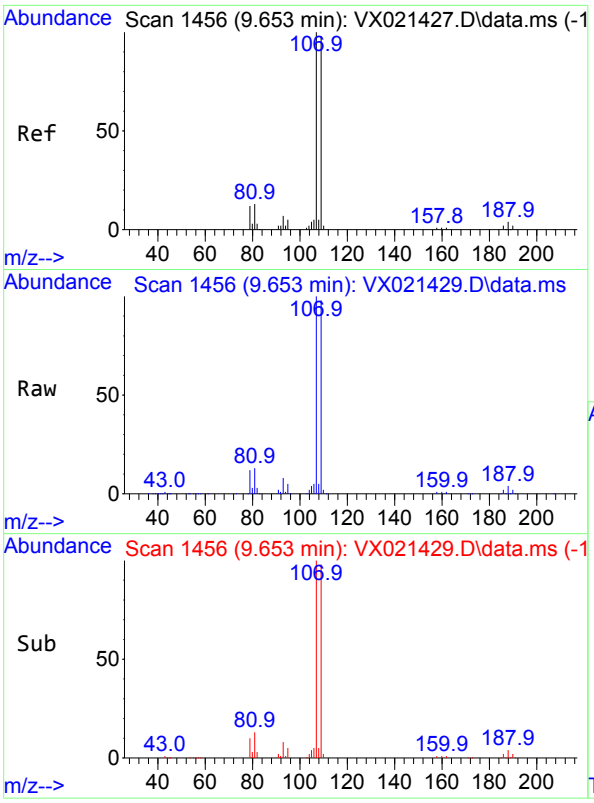
Tgt Ion:129 Resp: 173838

Ion	Ratio	Lower	Upper
129	100		
127	79.8	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

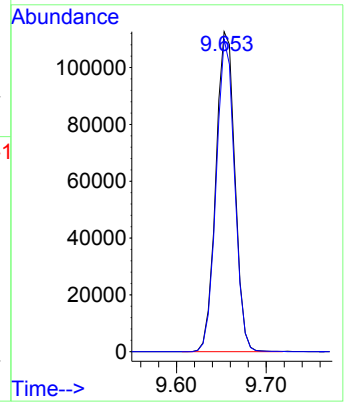
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

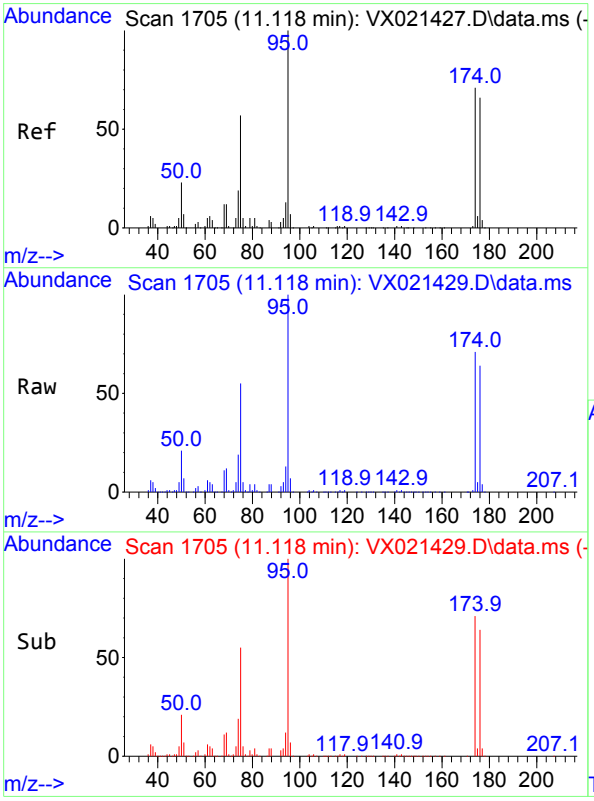


#61
1,2-Dibromoethane
Concen: 163.41 ug/l
RT: 9.653 min Scan# 1456
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:107 Resp: 165332

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.8	113.6

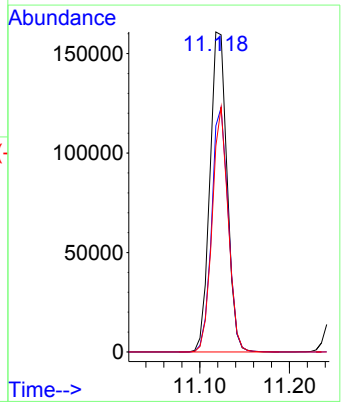




#62
4-Bromofluorobenzene
Concen: 170.05 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

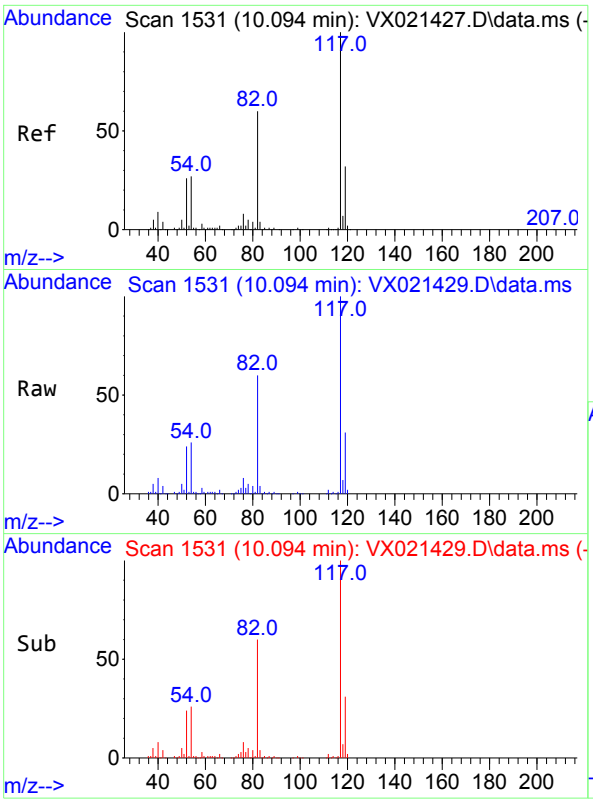
Tgt Ion: 95 Resp: 213145

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	154.6
176	71.3	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

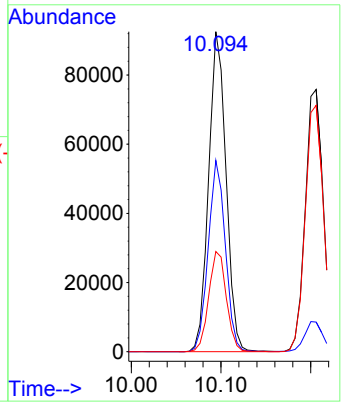
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

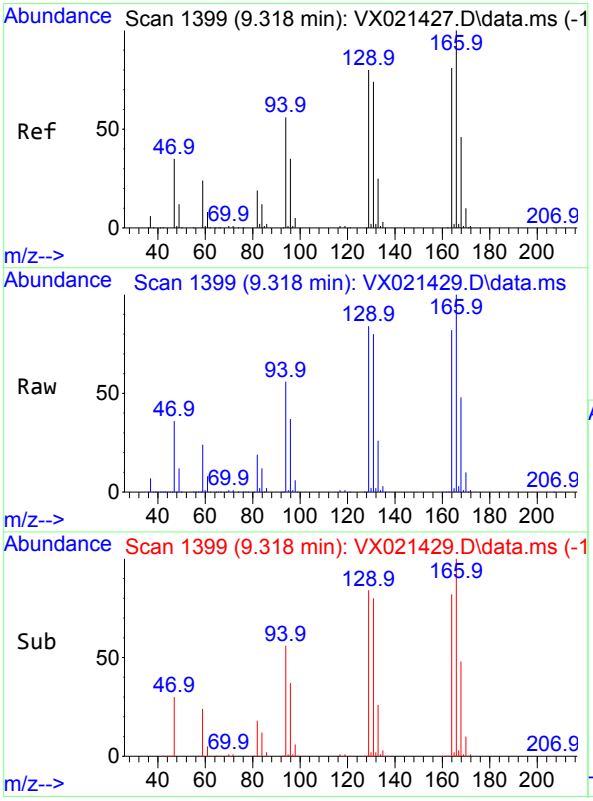


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:117 Resp: 124542

Ion	Ratio	Lower	Upper
117	100		
82	59.8	47.4	71.2
119	31.3	26.6	39.8

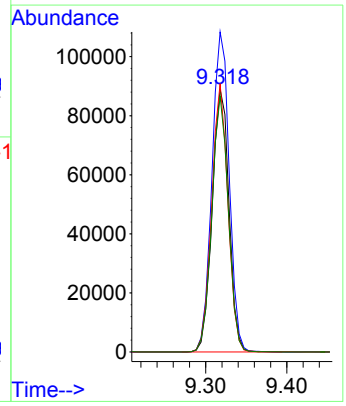




#64
Tetrachloroethene
Concen: 138.92 ug/l
RT: 9.318 min Scan# 1399
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

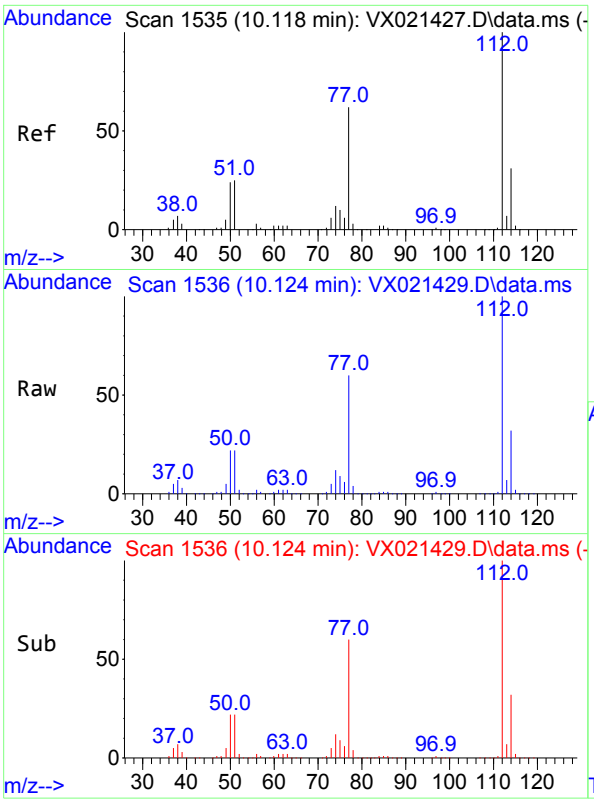
Tgt Ion:164 Resp: 127956

Ion	Ratio	Lower	Upper
164	100		
166	121.7	103.4	155.2
129	102.1	70.8	106.2
131	97.3	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

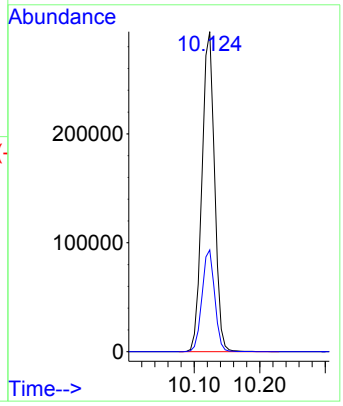
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

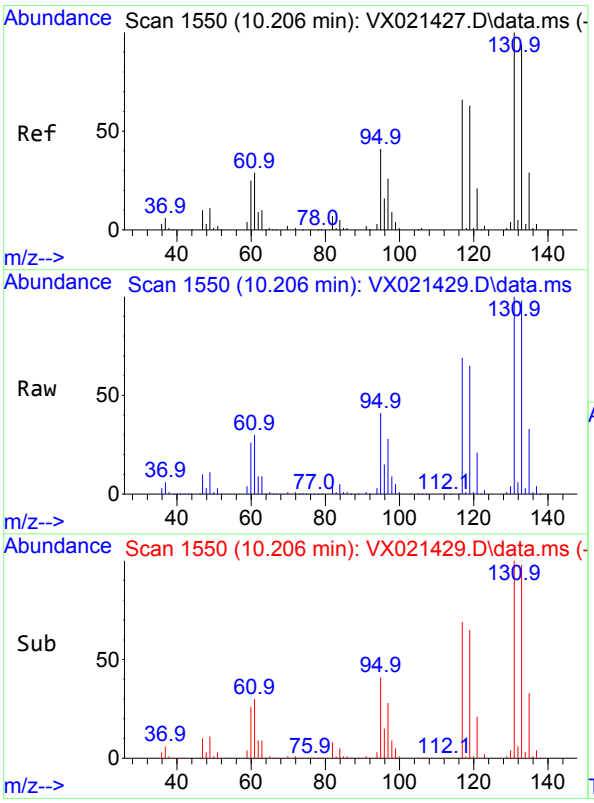


#65
Chlorobenzene
Concen: 153.34 ug/l
RT: 10.124 min Scan# 1536
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:112 Resp: 392937

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.8	38.6

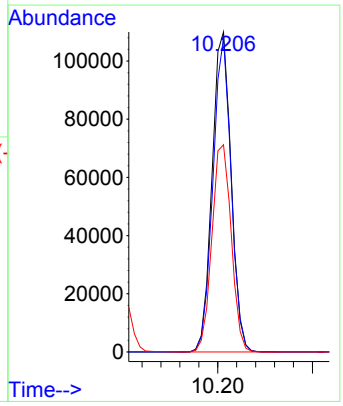




#66
1,1,1,2-Tetrachloroethane
Concen: 160.04 ug/l
RT: 10.206 min Scan# 1550
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

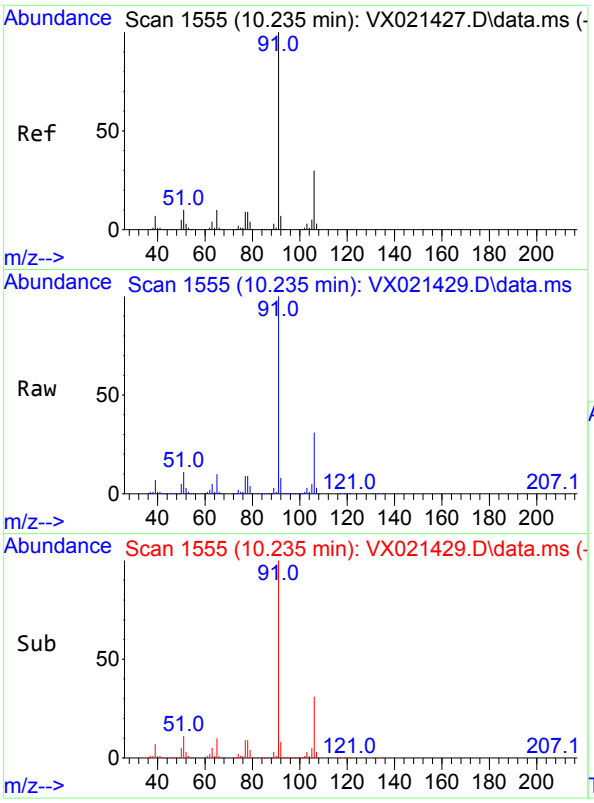
Tgt Ion:131 Resp: 152772

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.7	143.1
119	66.1	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

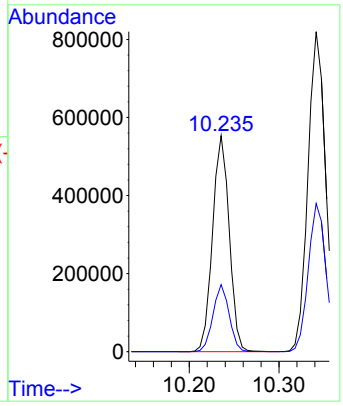
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

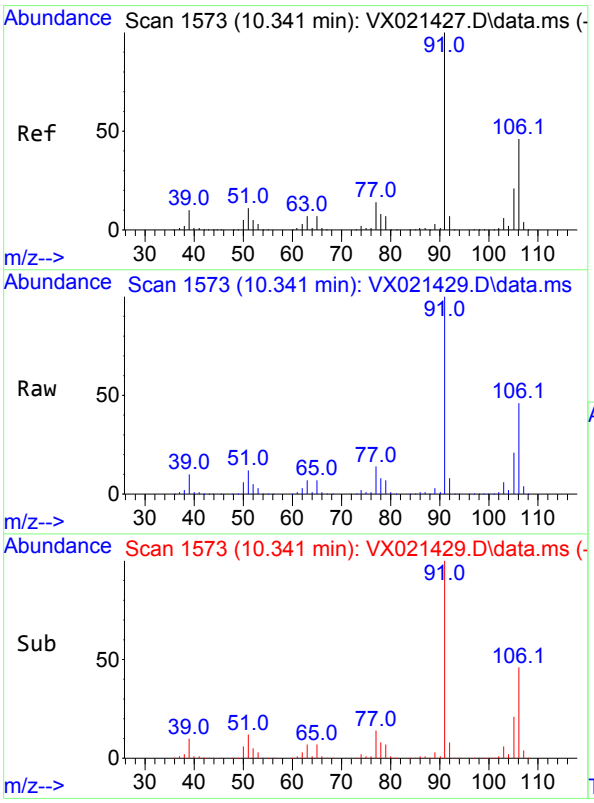


#67
Ethyl Benzene
Concen: 151.55 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 91 Resp: 715136

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.6	37.0

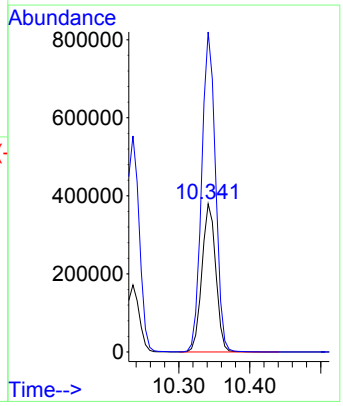




#68
m/p-Xylenes
Concen: 305.90 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

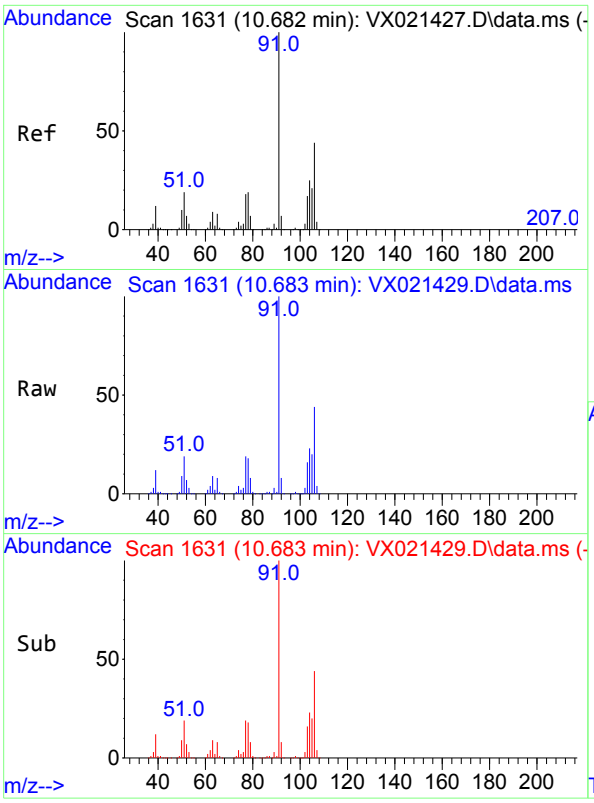
Tgt Ion:106 Resp: 515863

Ion	Ratio	Lower	Upper
106	100		
91	215.6	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

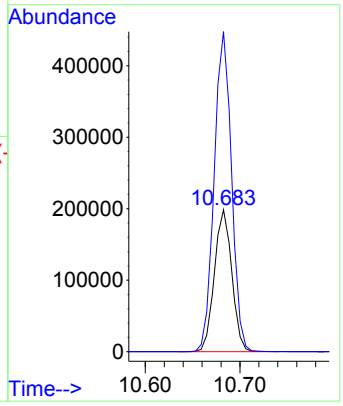
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

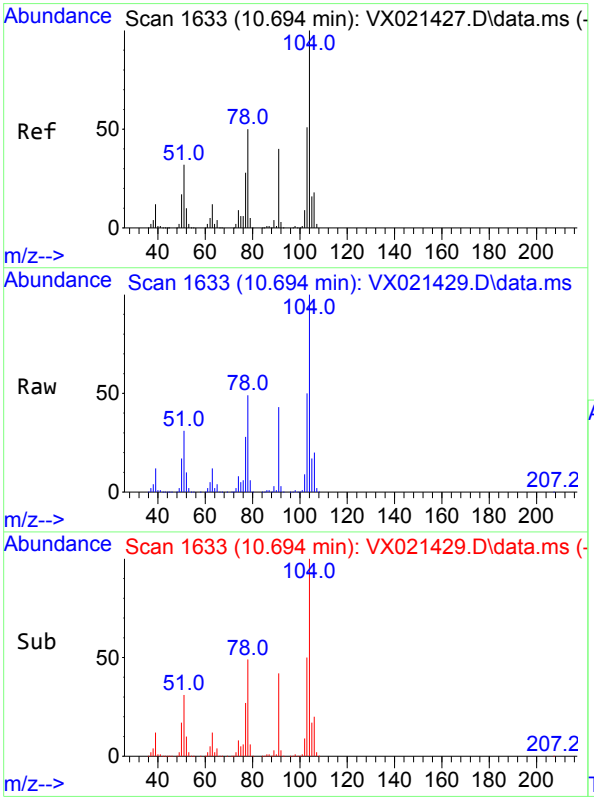


#69
o-Xylene
Concen: 154.82 ug/l
RT: 10.683 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:106 Resp: 253545

Ion	Ratio	Lower	Upper
106	100		
91	224.8	108.1	324.2

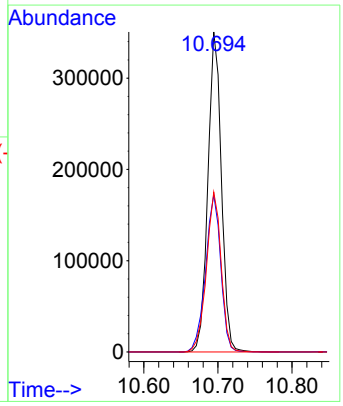




#70
Styrene
Concen: 160.80 ug/l
RT: 10.694 min Scan# 1633
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

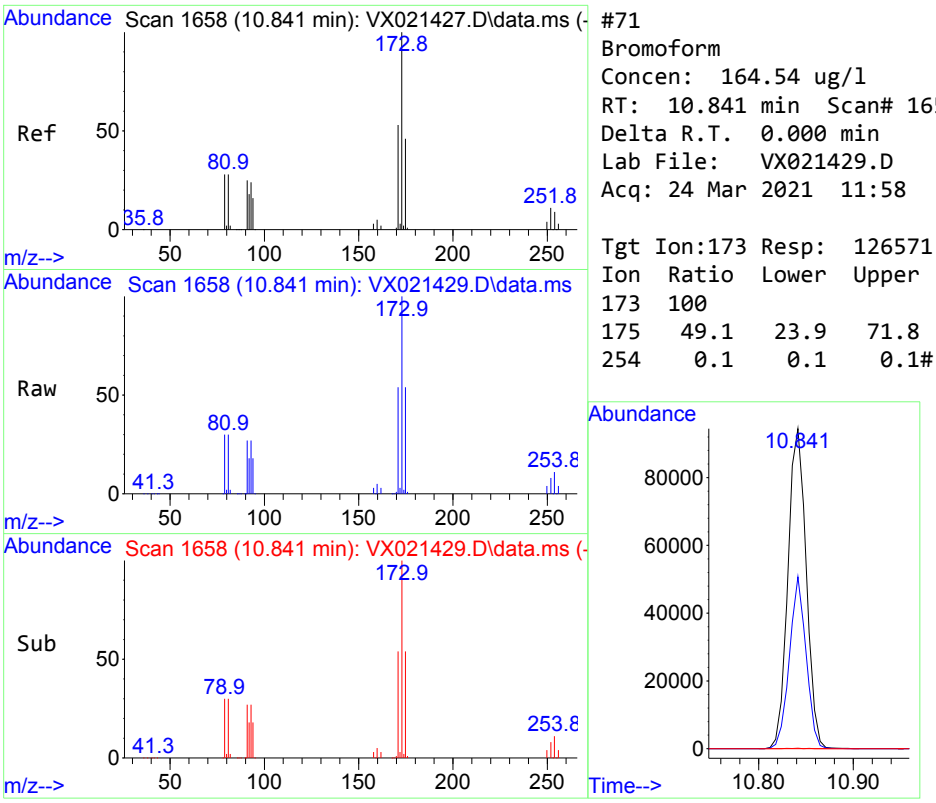
Tgt Ion:104 Resp: 443588

Ion	Ratio	Lower	Upper
104	100		
78	55.3	40.0	60.0
103	54.7	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

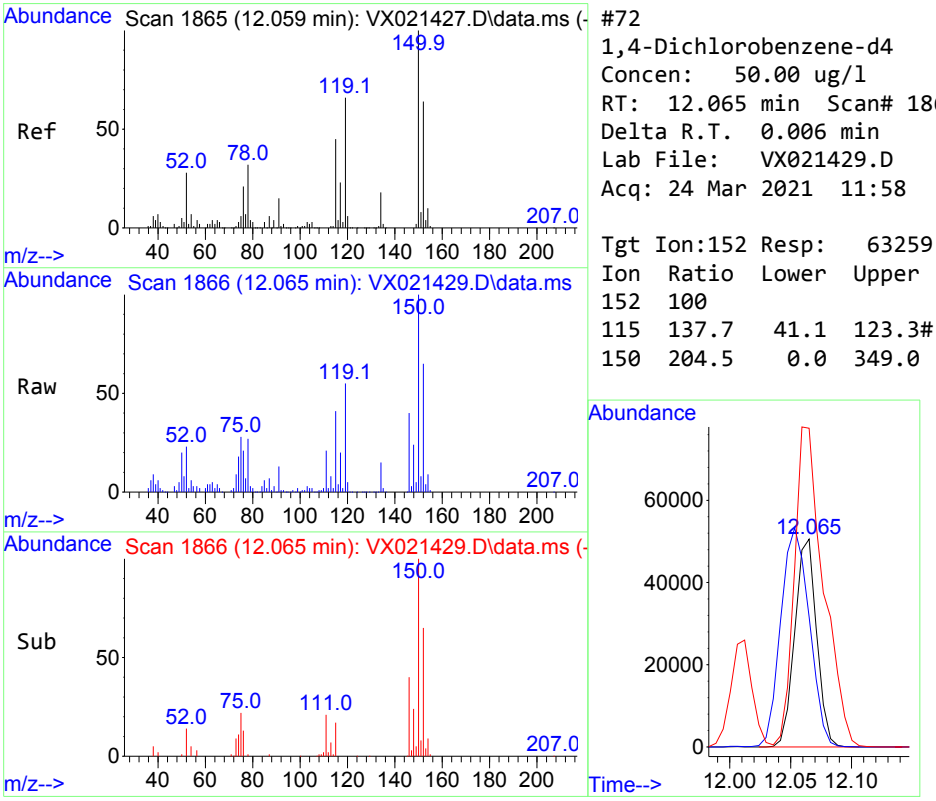
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM



#71
Bromoform
Concen: 164.54 ug/l
RT: 10.841 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:173 Resp: 126571

Ion	Ratio	Lower	Upper
173	100		
175	49.1	23.9	71.8
254	0.1	0.1	0.1#



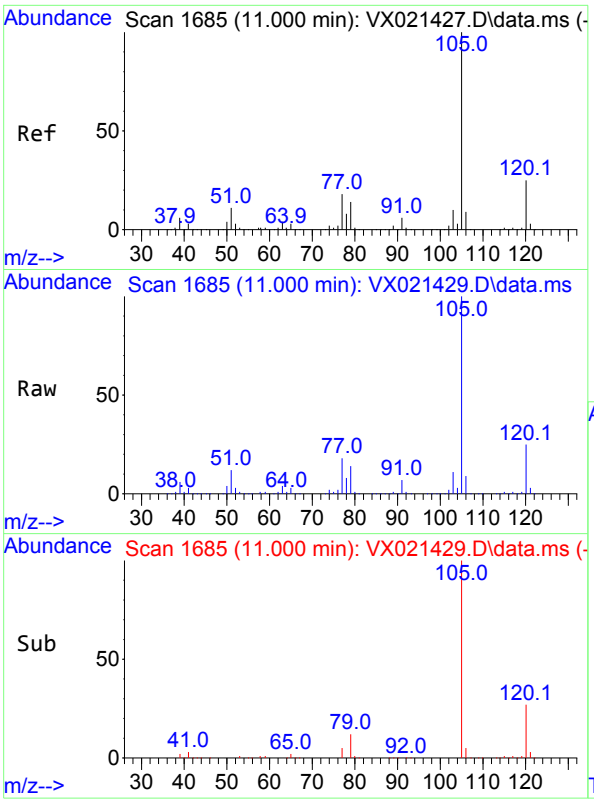
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.065 min Scan# 1866
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:152 Resp: 63259

Ion	Ratio	Lower	Upper
152	100		
115	137.7	41.1	123.3#
150	204.5	0.0	349.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

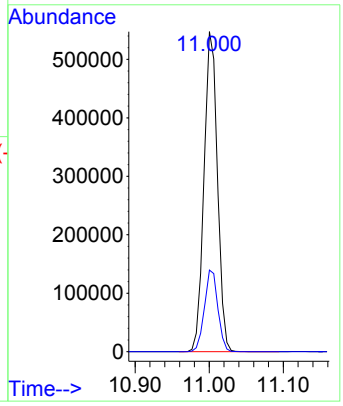
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

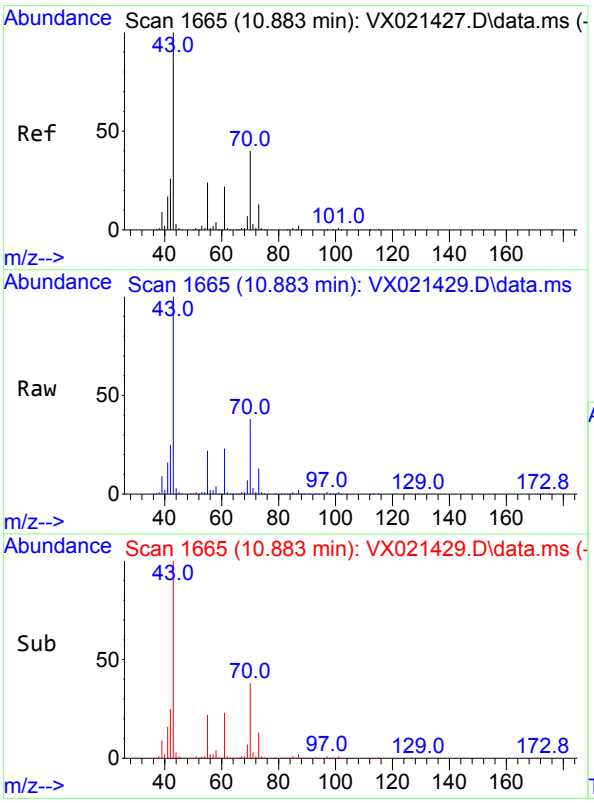


#73
Isopropylbenzene
Concen: 147.04 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:105 Resp: 687670

Ion	Ratio	Lower	Upper
105	100		
120	25.5	13.2	39.6

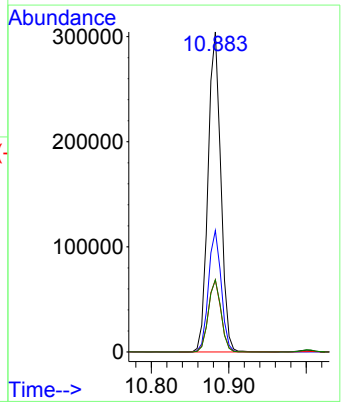




#74
N-amyl acetate
Concen: 148.67 ug/l
RT: 10.883 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

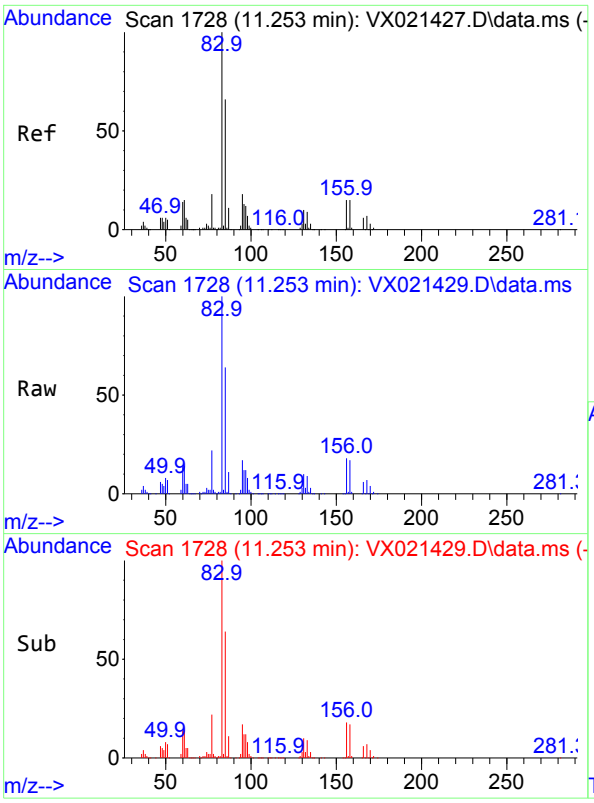
Tgt Ion: 43 Resp: 347791

Ion	Ratio	Lower	Upper
43	100		
70	37.8	39.0	58.6#
55	22.5	21.5	32.3
61	22.3	22.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

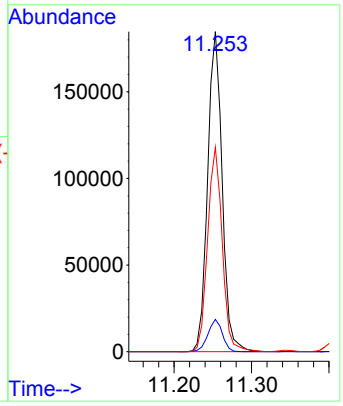
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

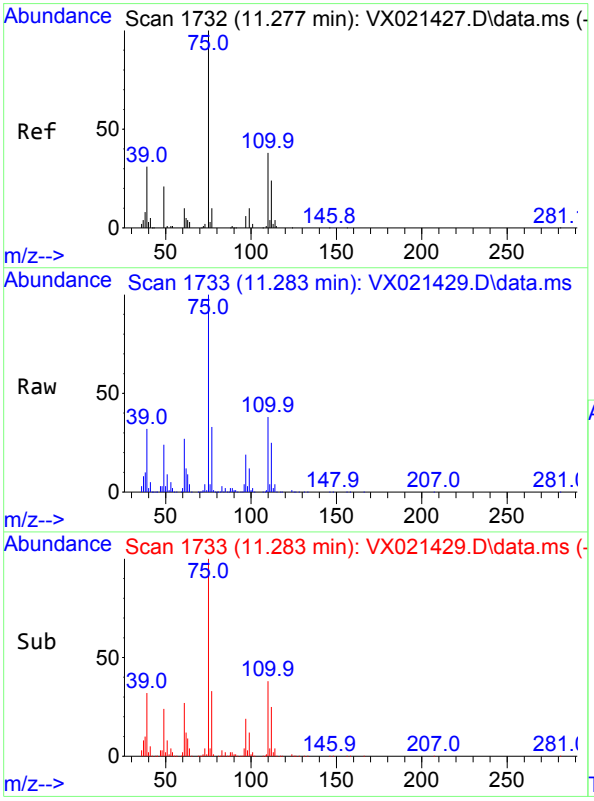


#75
1,1,2,2-Tetrachloroethane
Concen: 154.45 ug/l
RT: 11.253 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 83 Resp: 239871

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.2
85	64.3	31.8	95.4

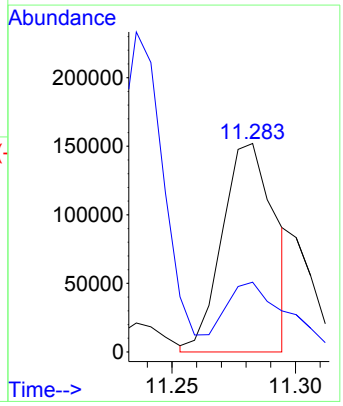




#76
1,2,3-Trichloropropane
Concen: 150.02 ug/l m
RT: 11.283 min Scan# 1733
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

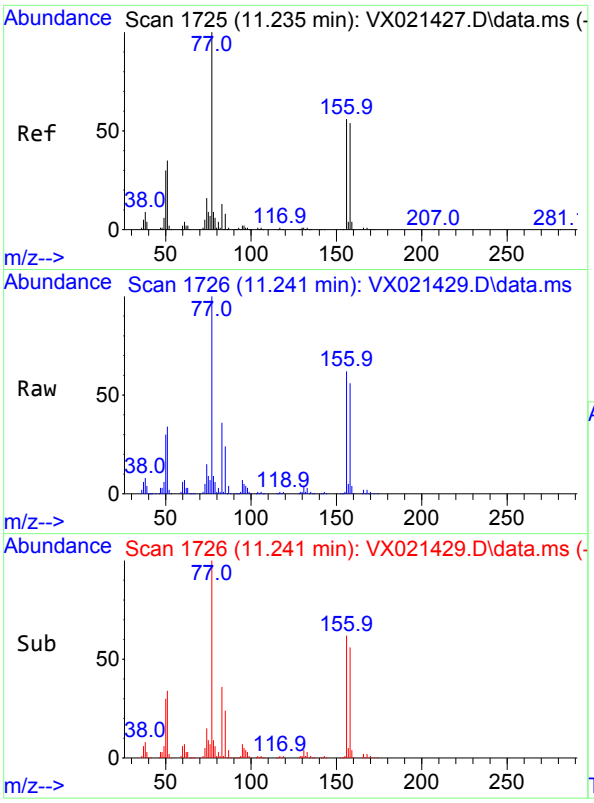
Tgt Ion: 75 Resp: 224557

Ion	Ratio	Lower	Upper
75	100		
77	41.2	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

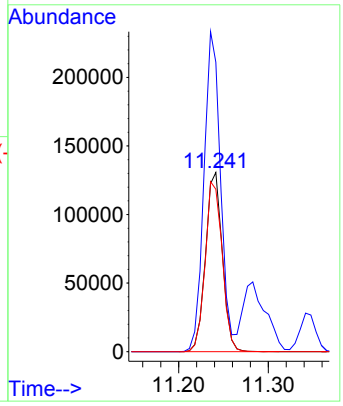
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

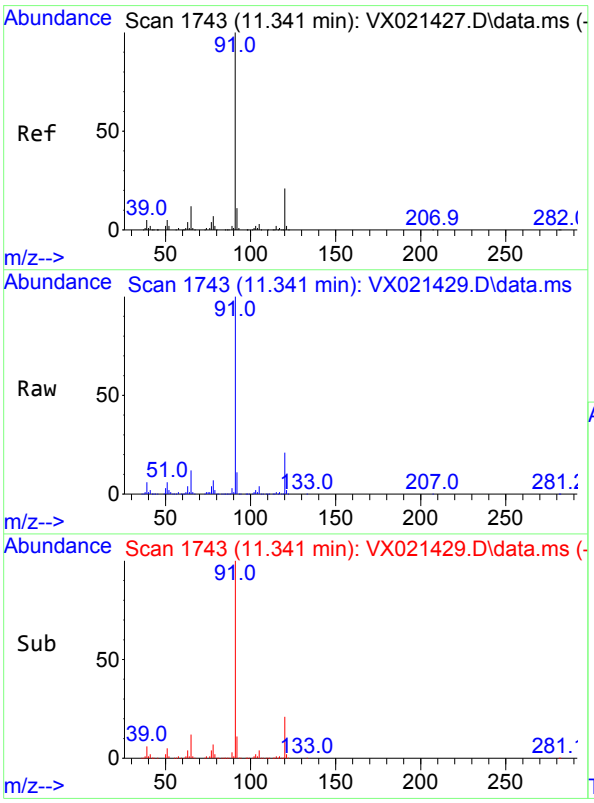


#77
Bromobenzene
Concen: 151.86 ug/l
RT: 11.241 min Scan# 1726
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:156 Resp: 169165

Ion	Ratio	Lower	Upper
156	100		
77	175.6	82.8	248.6
158	96.6	49.1	147.4

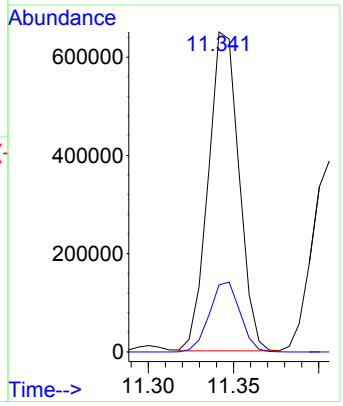




#78
n-propylbenzene
Concen: 148.84 ug/l
RT: 11.341 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

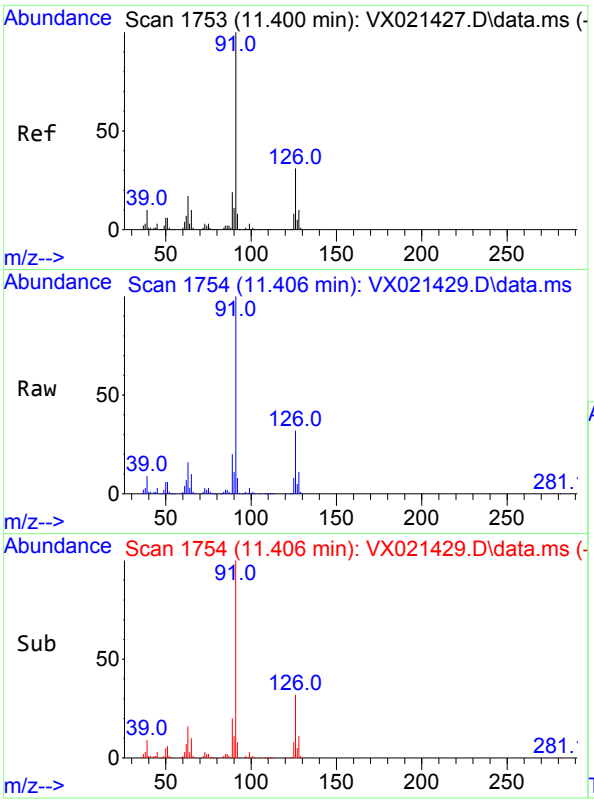
Tgt Ion: 91 Resp: 813163

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

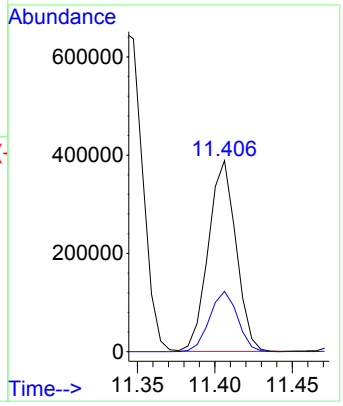
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

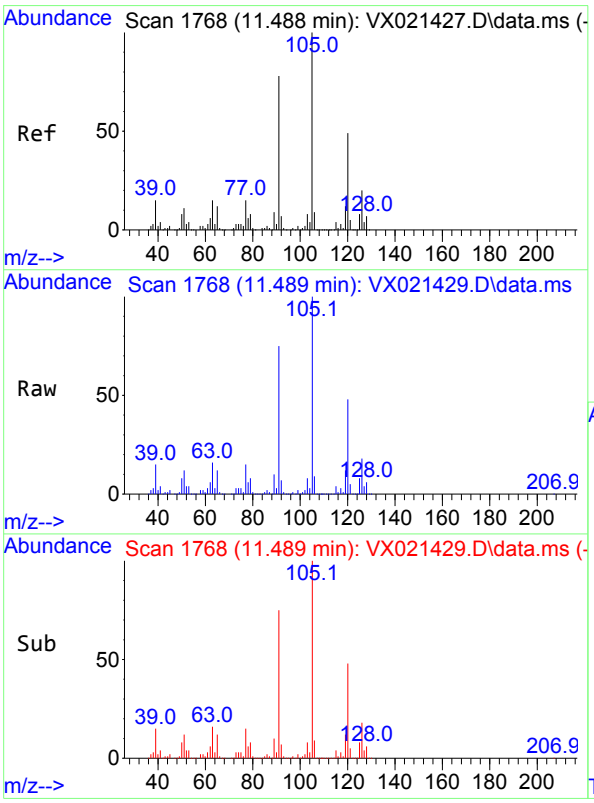


#79
2-Chlorotoluene
Concen: 145.38 ug/l
RT: 11.406 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 91 Resp: 482861

Ion	Ratio	Lower	Upper
91	100		
126	31.9	16.6	49.8

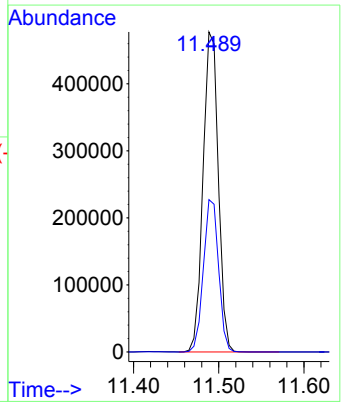




#80
1,3,5-Trimethylbenzene
Concen: 150.06 ug/l
RT: 11.489 min Scan# 1768
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

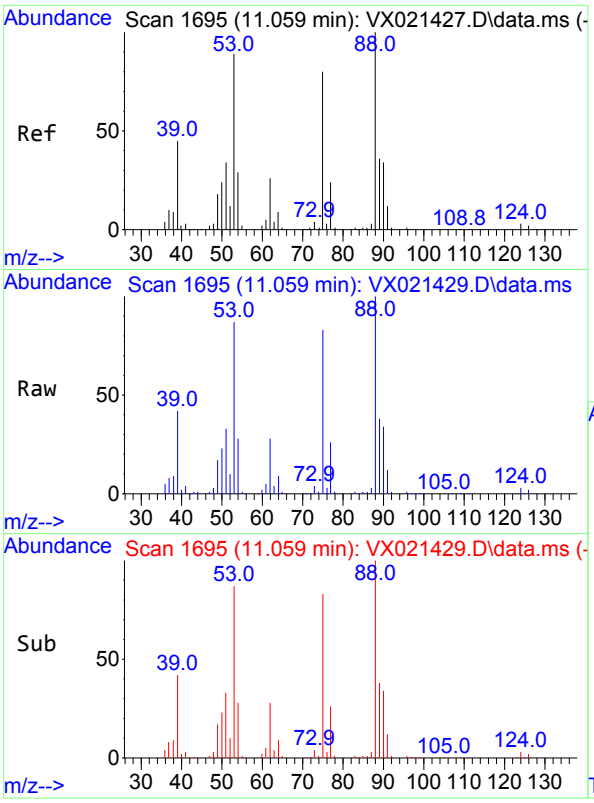
Tgt Ion:105 Resp: 593131

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

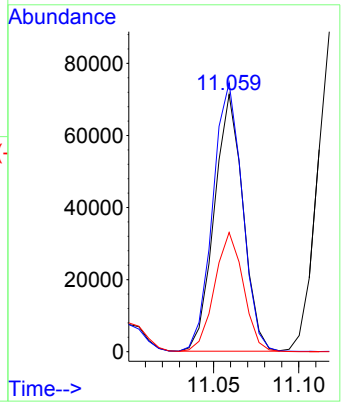
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

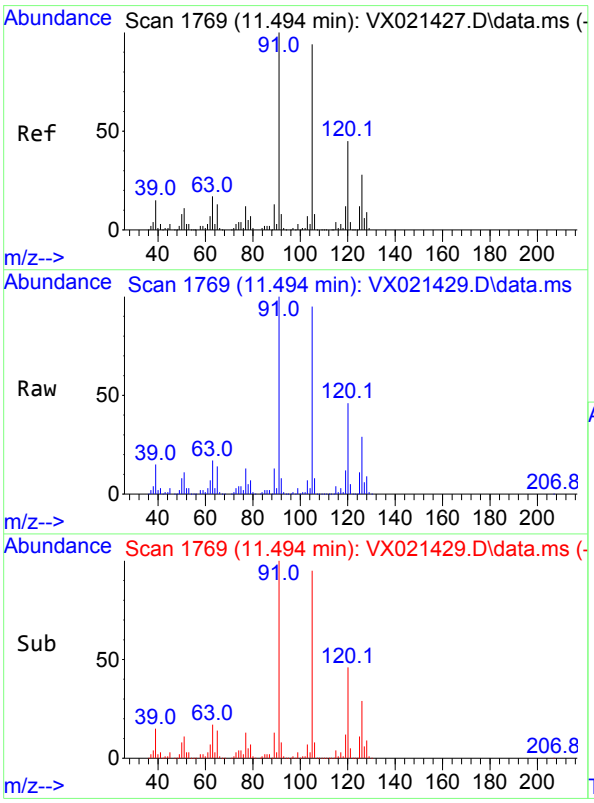


#81
trans-1,4-Dichloro-2-butene
Concen: 157.56 ug/l
RT: 11.059 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 75 Resp: 83589

Ion	Ratio	Lower	Upper
75	100		
53	107.8	74.5	111.7
89	46.7	37.9	56.9

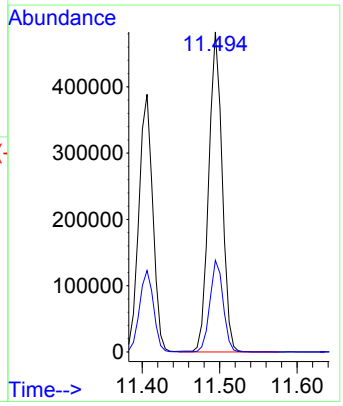




#82
4-Chlorotoluene
Concen: 148.09 ug/l
RT: 11.494 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

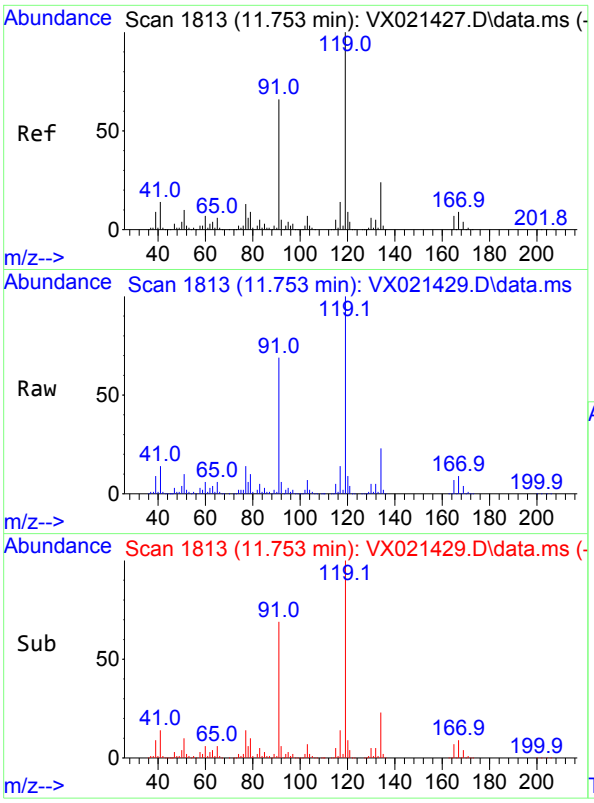
Tgt Ion: 91 Resp: 579474

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

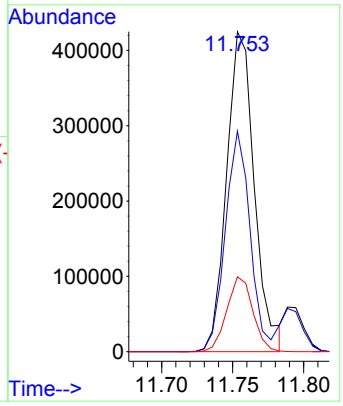
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

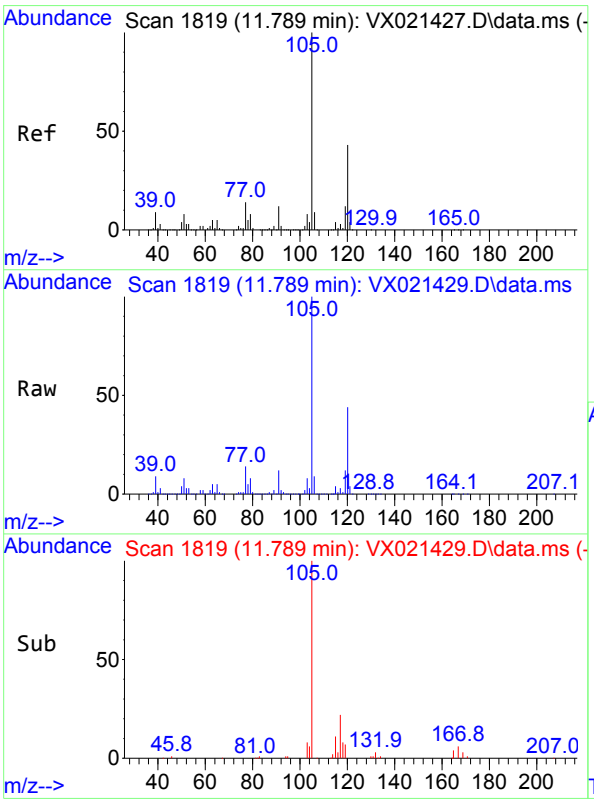


#83
tert-Butylbenzene
Concen: 153.31 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:119 Resp: 578778

Ion	Ratio	Lower	Upper
119	100		
91	61.5	27.9	83.7
134	22.0	11.3	33.9

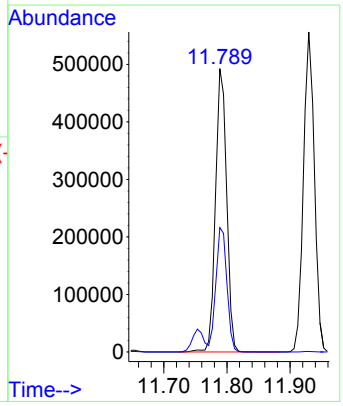




#84
1,2,4-Trimethylbenzene
Concen: 149.86 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

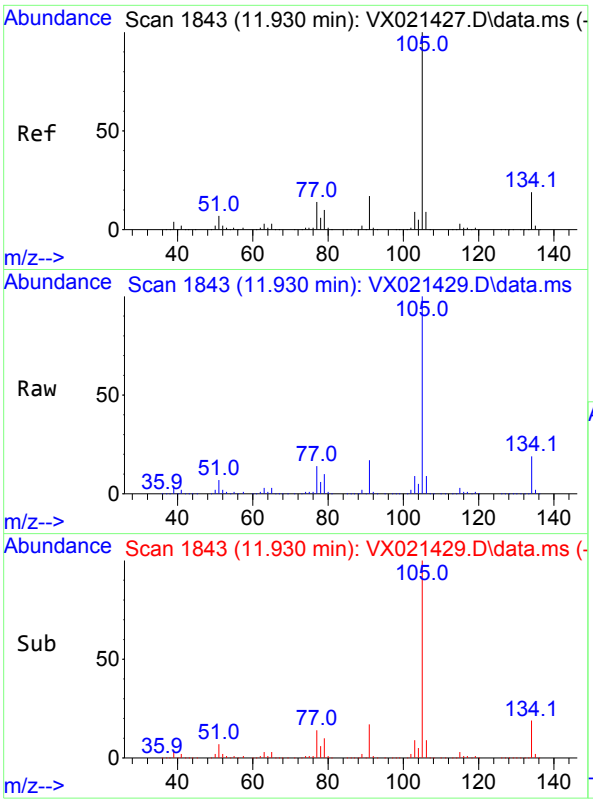
Tgt Ion:105 Resp: 602128

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

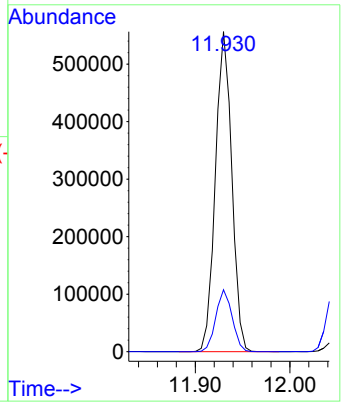
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

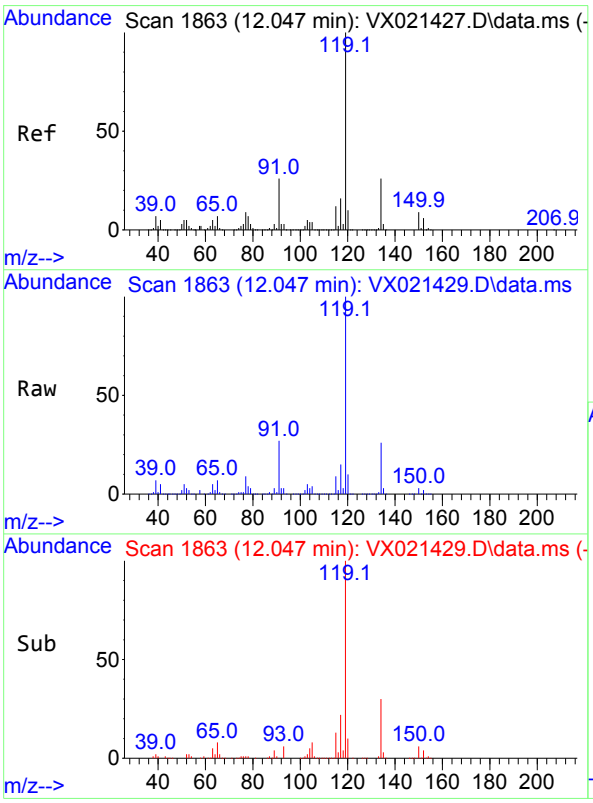


#85
sec-Butylbenzene
Concen: 150.26 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:105 Resp: 668961

Ion	Ratio	Lower	Upper
105	100		
134	19.3	10.0	29.8

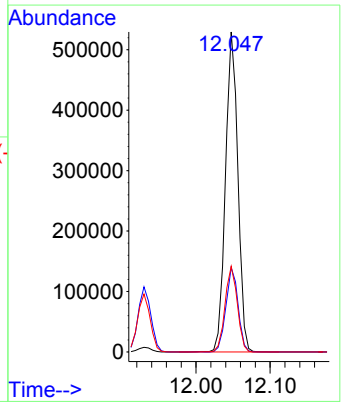




#86
p-Isopropyltoluene
Concen: 150.88 ug/l
RT: 12.047 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

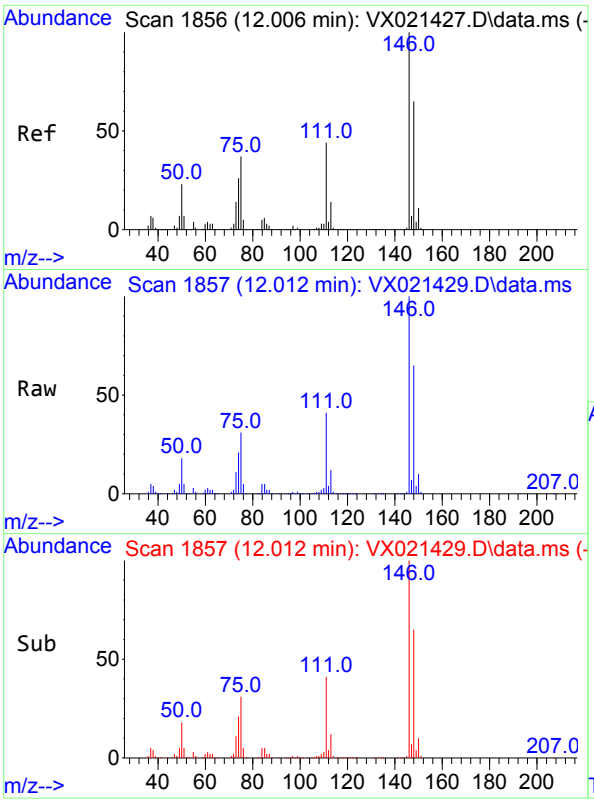
Tgt Ion:119 Resp: 614754

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.9	38.7
91	26.6	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

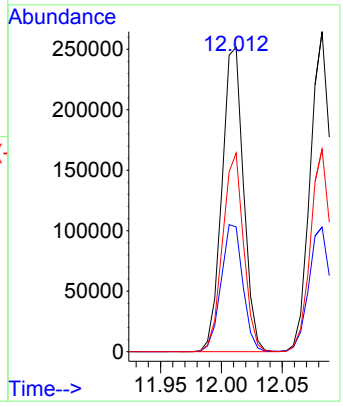
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

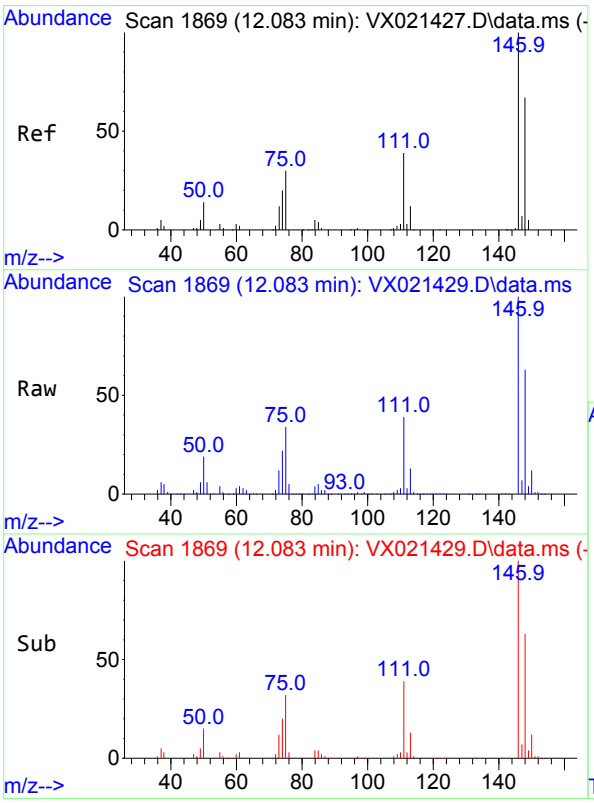


#87
1,3-Dichlorobenzene
Concen: 153.33 ug/l
RT: 12.012 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:146 Resp: 310892

Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.2	60.5
148	63.5	31.9	95.7

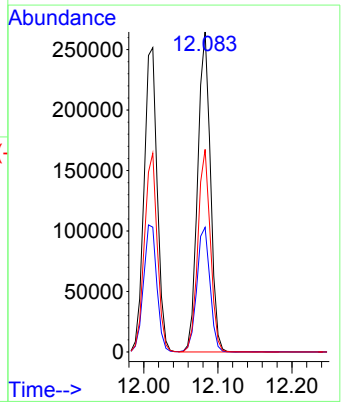




#88
1,4-Dichlorobenzene
Concen: 152.67 ug/l
RT: 12.083 min Scan# 1869
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

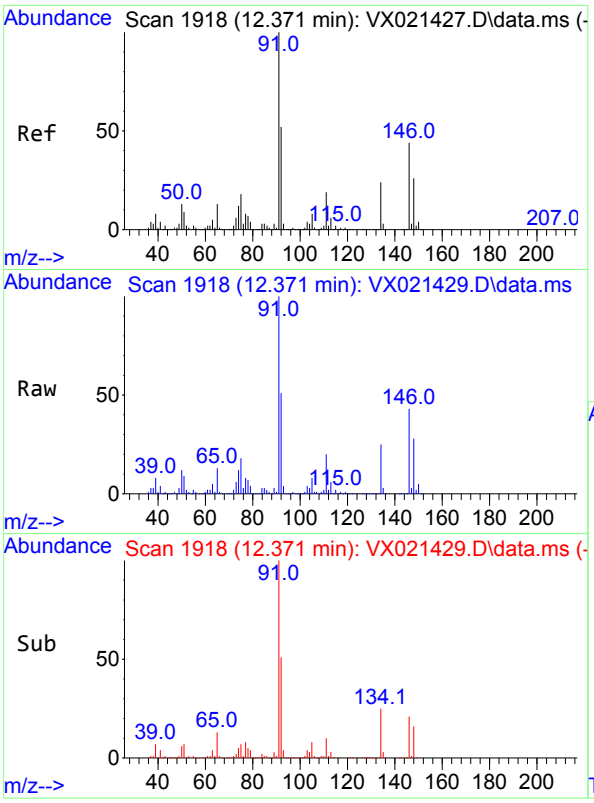
Tgt Ion:146 Resp: 315092

Ion	Ratio	Lower	Upper
146	100		
111	40.2	19.6	58.8
148	62.2	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

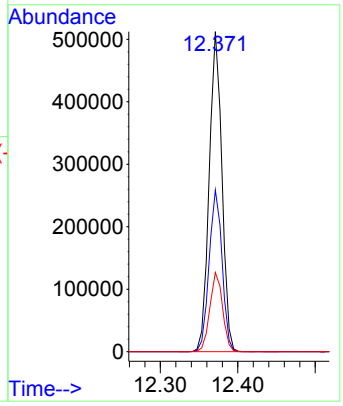
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

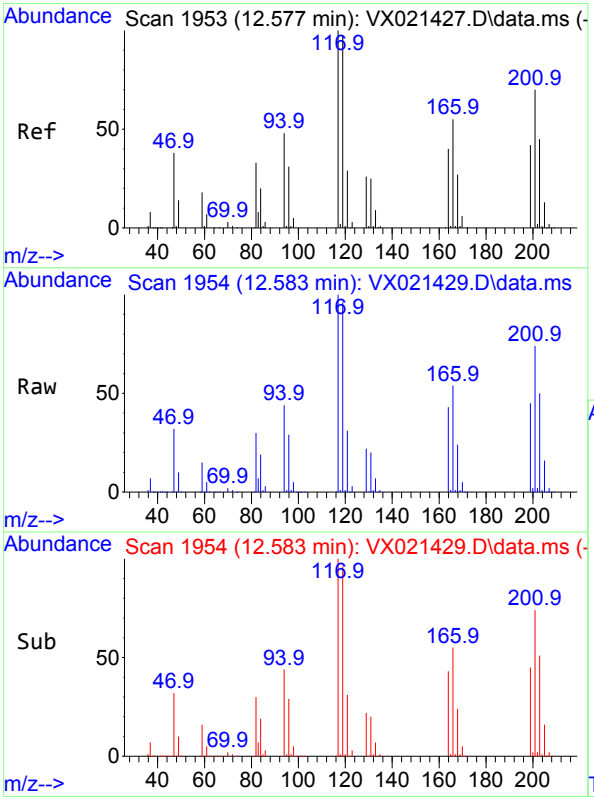


#89
n-Butylbenzene
Concen: 157.02 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion: 91 Resp: 582923

Ion	Ratio	Lower	Upper
91	100		
92	51.5	27.4	82.0
134	24.8	13.2	39.5

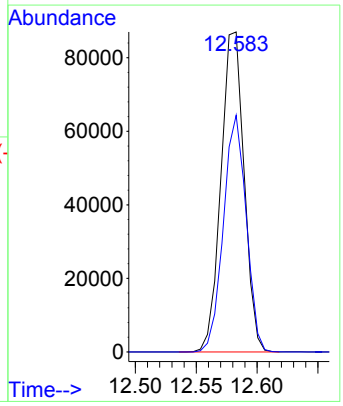




#90
Hexachloroethane
Concen: 182.11 ug/l
RT: 12.583 min Scan# 1954
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

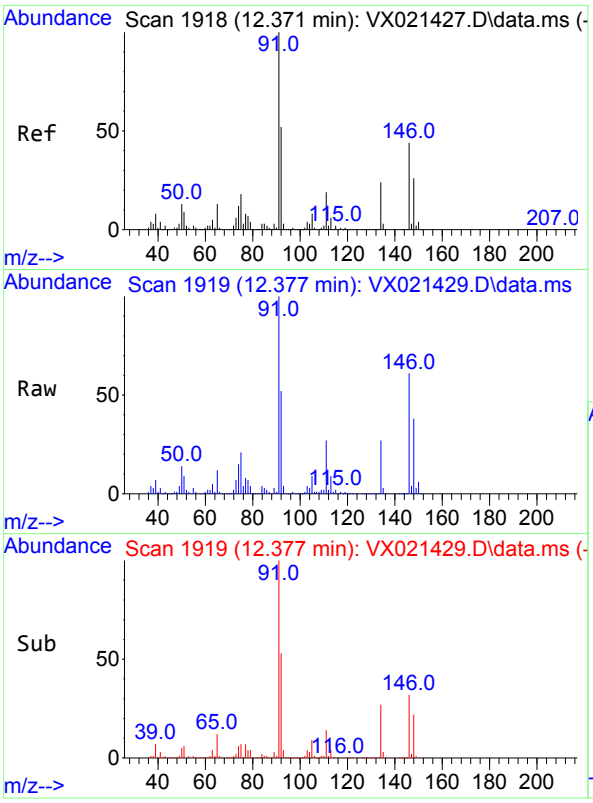
Tgt Ion:117 Resp: 115244

Ion	Ratio	Lower	Upper
117	100		
201	72.8	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

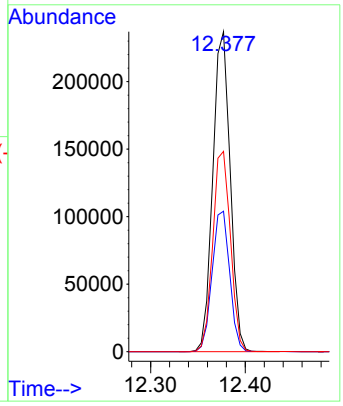
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

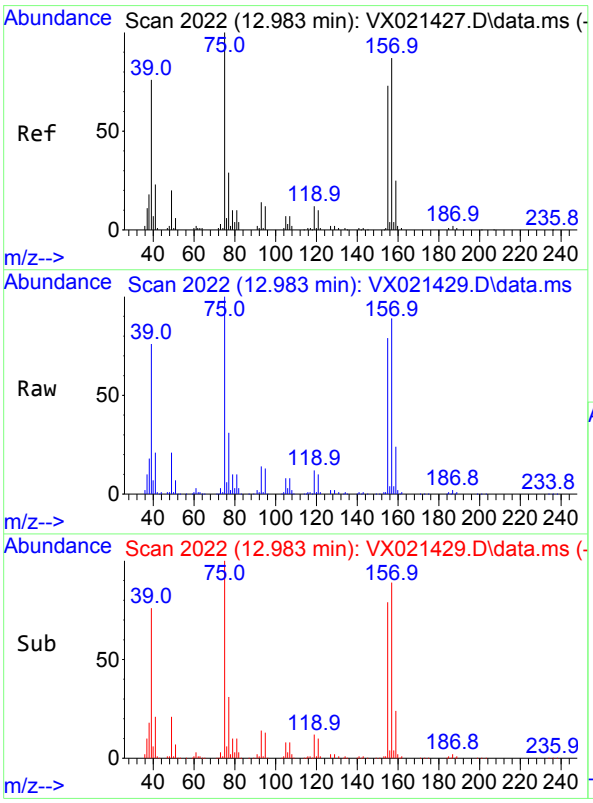


#91
1,2-Dichlorobenzene
Concen: 153.56 ug/l
RT: 12.377 min Scan# 1919
Delta R.T. 0.006 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:146 Resp: 302160

Ion	Ratio	Lower	Upper
146	100		
111	44.5	20.8	62.2
148	63.7	31.9	95.5

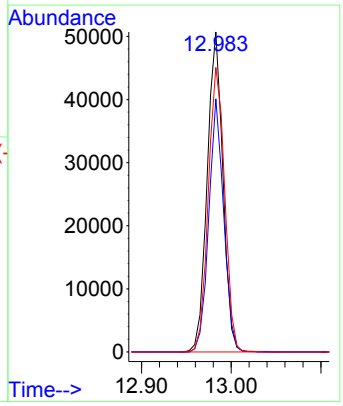




#92
1,2-Dibromo-3-Chloropropane
Concen: 155.56 ug/l
RT: 12.983 min Scan# 2022
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

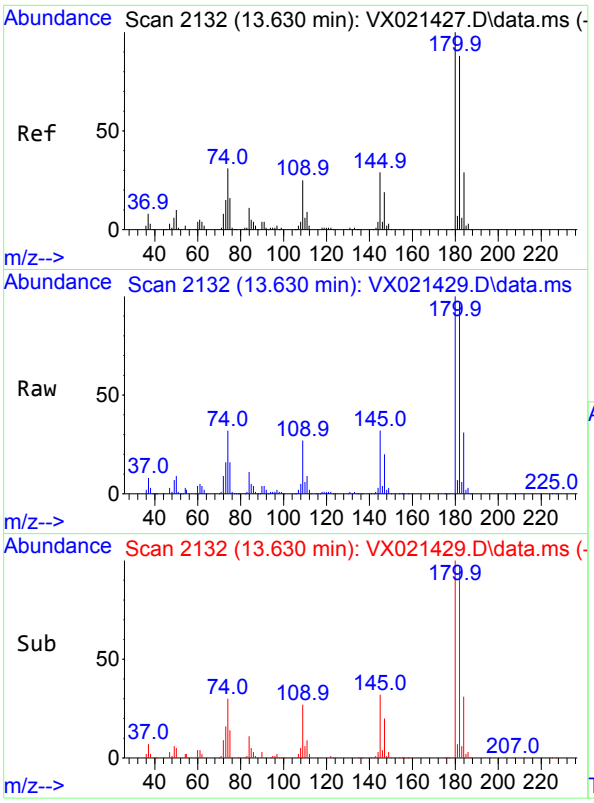
Tgt Ion: 75 Resp: 61621

Ion	Ratio	Lower	Upper
75	100		
155	75.0	45.3	135.9
157	92.7	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

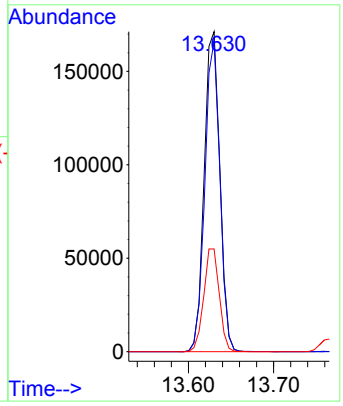
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

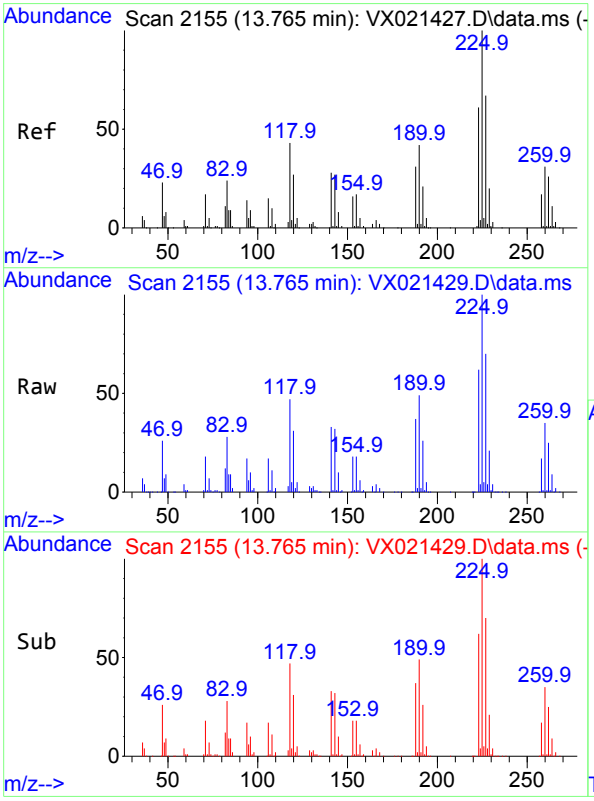


#93
1,2,4-Trichlorobenzene
Concen: 168.49 ug/l
RT: 13.630 min Scan# 2132
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:180 Resp: 218662

Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.7	143.1
145	32.0	15.0	45.0

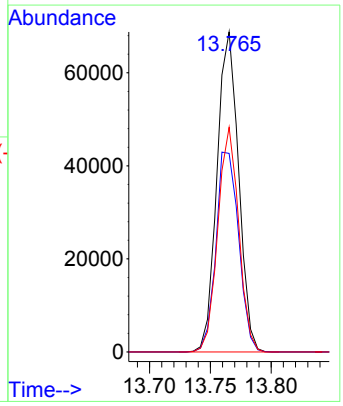




#94
Hexachlorobutadiene
Concen: 155.40 ug/l
RT: 13.765 min Scan# 2155
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

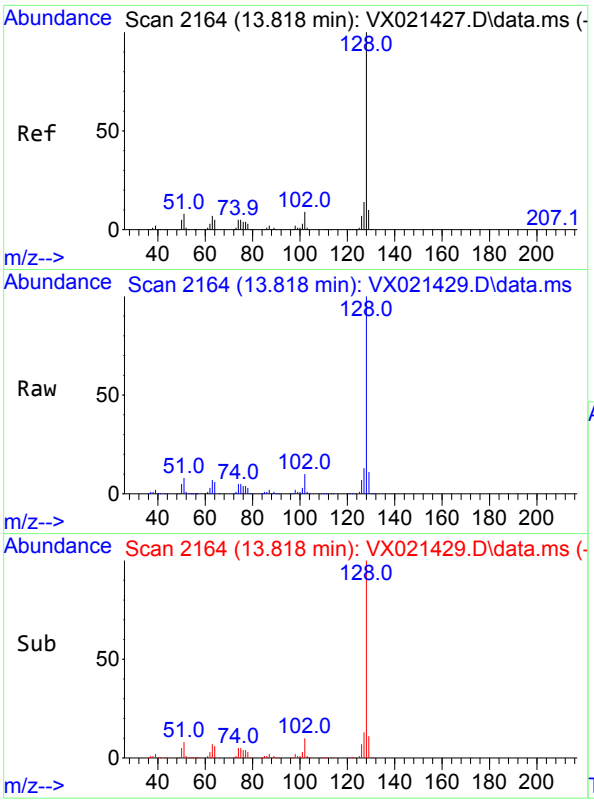
Tgt Ion:225 Resp: 84948

Ion	Ratio	Lower	Upper
225	100		
223	65.8	31.1	93.2
227	67.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

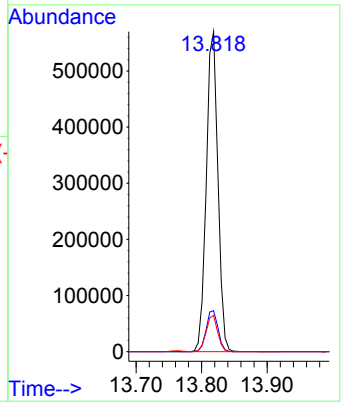
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:41 AM

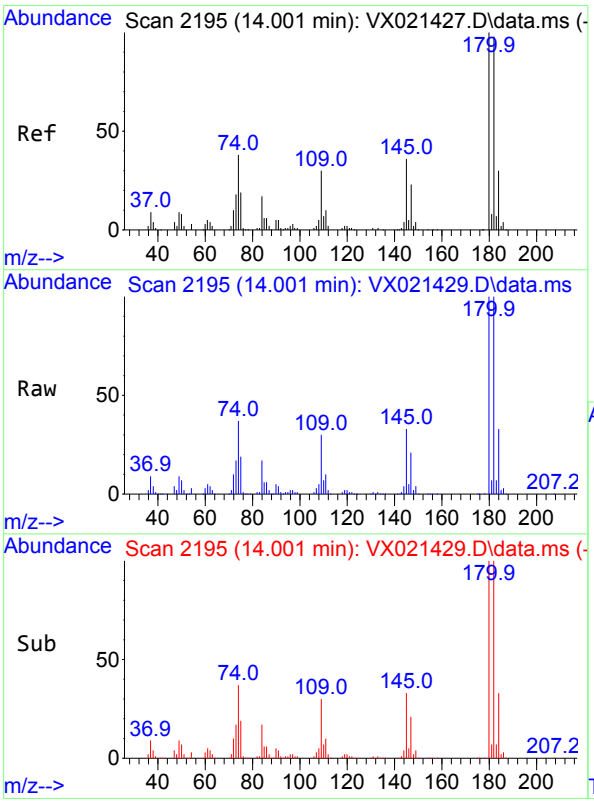


#95
Naphthalene
Concen: 158.37 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:128 Resp: 702214

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	11.2	8.8	13.2

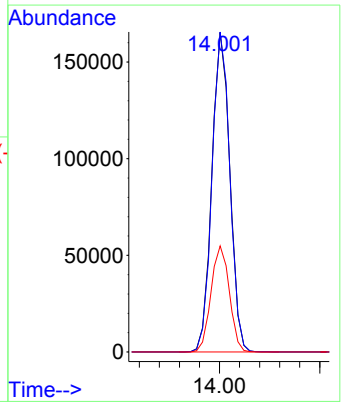




#96
1,2,3-Trichlorobenzene
Concen: 160.04 ug/l
RT: 14.001 min Scan# 2195
Delta R.T. 0.000 min
Lab File: VX021429.D
Acq: 24 Mar 2021 11:58

Tgt Ion:180 Resp: 205544

Ion	Ratio	Lower	Upper
180	100		
182	99.2	47.6	142.9
145	33.9	16.1	48.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021431.D
Acq On : 24 Mar 2021 12:43
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 24 17:16:36 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : ICVVX032421

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.629	168	85916	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	138830	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	129853	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	64663	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.029	65	64489	45.11	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 90.22%				
35) Dibromofluoromethane	5.464	113	46301	46.95	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.90%				
50) Toluene-d8	8.694	98	167144	47.56	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 95.12%				
62) 4-Bromofluorobenzene	11.118	95	66126	48.40	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.181	85	47202	49.98	ug/l		99
3) Chloromethane	1.311	50	51665	47.59	ug/l		98
4) Vinyl Chloride	1.393	62	47344	49.02	ug/l		99
5) Bromomethane	1.623	94	19682	50.63	ug/l		99
6) Chloroethane	1.699	64	29642	48.39	ug/l		97
7) Trichlorofluoromethane	1.905	101	76482	48.68	ug/l		95
8) Diethyl Ether	2.170	74	26571	48.74	ug/l		82
9) 1,1,2-Trichlorotrifluo...	2.358	101	43520	49.21	ug/l		97
10) Methyl Iodide	2.487	142	31571	46.29	ug/l	#	88
11) Tert butyl alcohol	3.023	59	57722	244.24	ug/l		97
12) 1,1-Dichloroethene	2.352	96	40773	47.09	ug/l		85
13) Acrolein	2.276	56	26307	221.19	ug/l		100
14) Allyl chloride	2.705	41	84659	48.17	ug/l	#	88
15) Acrylonitrile	3.117	53	137280	244.42	ug/l		98
16) Acetone	2.423	43	127030	235.02	ug/l	#	87
17) Carbon Disulfide	2.546	76	112777	46.39	ug/l		99
18) Methyl Acetate	2.746	43	77947	49.92	ug/l		90
19) Methyl tert-butyl Ether	3.170	73	158135	48.91	ug/l		100
20) Methylene Chloride	2.835	84	49164	46.61	ug/l	#	83
21) trans-1,2-Dichloroethene	3.140	96	45491	47.83	ug/l		90
22) Diisopropyl ether	3.829	45	167782	49.14	ug/l		91
23) Vinyl Acetate	3.788	43	720192	249.36	ug/l	#	93
24) 1,1-Dichloroethane	3.670	63	89112	48.41	ug/l		98
25) 2-Butanone	4.635	43	198043	241.71	ug/l		90
26) 2,2-Dichloropropane	4.547	77	79270	49.71	ug/l		96
27) cis-1,2-Dichloroethene	4.558	96	53822	48.74	ug/l		90
28) Bromochloromethane	4.982	49	40839	44.31	ug/l		86
29) Tetrahydrofuran	5.088	42	128449	241.79	ug/l		86
30) Chloroform	5.176	83	95242	49.02	ug/l		98
31) Cyclohexane	5.547	56	78196	49.74	ug/l		96
32) 1,1,1-Trichloroethane	5.458	97	84744	49.22	ug/l		96
36) 1,1-Dichloropropene	5.770	75	68516	50.37	ug/l		97
37) Ethyl Acetate	4.794	43	75175	47.79	ug/l	#	93
38) Carbon Tetrachloride	5.753	117	73978	50.61	ug/l		97
39) Methylcyclohexane	7.441	83	79198	52.52	ug/l		91
40) Benzene	6.111	78	193565	50.11	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021431.D
Acq On : 24 Mar 2021 12:43
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

Quant Time: Mar 24 17:16:36 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	5.000	41	44080	48.32	ug/l		89
42) 1,2-Dichloroethane	6.159	62	84072	50.20	ug/l		93
43) Isopropyl Acetate	6.412	43	127670	49.99	ug/l	#	91
44) Trichloroethene	7.188	130	50616	49.66	ug/l		92
45) 1,2-Dichloropropane	7.488	63	53017	50.67	ug/l		97
46) Dibromomethane	7.635	93	38191	50.08	ug/l		92
47) Bromodichloromethane	7.876	83	79237	51.05	ug/l		99
48) Methyl methacrylate	7.747	41	69096	50.72	ug/l	#	82
49) 1,4-Dioxane	7.712	88	25020	1025.81	ug/l	#	91
51) 4-Methyl-2-Pentanone	8.624	43	405305	258.01	ug/l		89
52) Toluene	8.765	92	125547	52.62	ug/l		100
53) t-1,3-Dichloropropene	9.024	75	82519	52.65	ug/l		98
54) cis-1,3-Dichloropropene	8.412	75	86927	52.12	ug/l	#	85
55) 1,1,2-Trichloroethane	9.194	97	52639	52.27	ug/l		99
56) Ethyl methacrylate	9.159	69	81341	47.91	ug/l	#	76
57) 1,3-Dichloropropane	9.353	76	88319	51.25	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.288	63	221880	260.72	ug/l		96
59) 2-Hexanone	9.471	43	307140	260.39	ug/l		85
60) Dibromochloromethane	9.565	129	59207	52.49	ug/l		98
61) 1,2-Dibromoethane	9.653	107	55650	51.44	ug/l		100
64) Tetrachloroethene	9.318	164	45762	52.61	ug/l		94
65) Chlorobenzene	10.124	112	134081	51.40	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.206	131	51433	51.45	ug/l		99
67) Ethyl Benzene	10.236	91	252898	53.19	ug/l		98
68) m/p-Xylenes	10.341	106	182238	107.58	ug/l		94
69) o-Xylene	10.683	106	86685	52.83	ug/l		92
70) Styrene	10.694	104	150089	53.19	ug/l		96
71) Bromoform	10.842	173	41954	51.65	ug/l	#	98
73) Isopropylbenzene	11.000	105	242563	53.39	ug/l		99
74) N-amyl acetate	10.883	43	110943	50.47	ug/l	#	88
75) 1,1,2,2-Tetrachloroethane	11.253	83	80423	50.10	ug/l		99
76) 1,2,3-Trichloropropane	11.277	75	78320m	52.03	ug/l		
77) Bromobenzene	11.236	156	56367	50.05	ug/l		93
78) n-propylbenzene	11.342	91	286011	53.31	ug/l		97
79) 2-Chlorotoluene	11.406	91	170815	52.48	ug/l		98
80) 1,3,5-Trimethylbenzene	11.489	105	209265	53.91	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.059	75	24820	50.22	ug/l	#	79
82) 4-Chlorotoluene	11.495	91	202393	52.37	ug/l		96
83) tert-Butylbenzene	11.753	119	194705	51.52	ug/l		91
84) 1,2,4-Trimethylbenzene	11.789	105	211365	54.02	ug/l		95
85) sec-Butylbenzene	11.930	105	236006	54.14	ug/l		98
86) p-Isopropyltoluene	12.048	119	218740	55.12	ug/l		96
87) 1,3-Dichlorobenzene	12.006	146	108272	53.39	ug/l		98
88) 1,4-Dichlorobenzene	12.083	146	103631	49.39	ug/l		98
89) n-Butylbenzene	12.371	91	199675	54.92	ug/l		96
90) Hexachloroethane	12.577	117	37354	52.16	ug/l		97
91) 1,2-Dichlorobenzene	12.377	146	99280	50.35	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.983	75	18989	47.06	ug/l		81
93) 1,2,4-Trichlorobenzene	13.624	180	68389	52.92	ug/l		99
94) Hexachlorobutadiene	13.760	225	30555	52.38	ug/l		100
95) Naphthalene	13.812	128	224939	53.36	ug/l		100
96) 1,2,3-Trichlorobenzene	14.001	180	67410	52.18	ug/l		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021431.D
Acq On : 24 Mar 2021 12:43
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 24 17:16:36 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

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

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

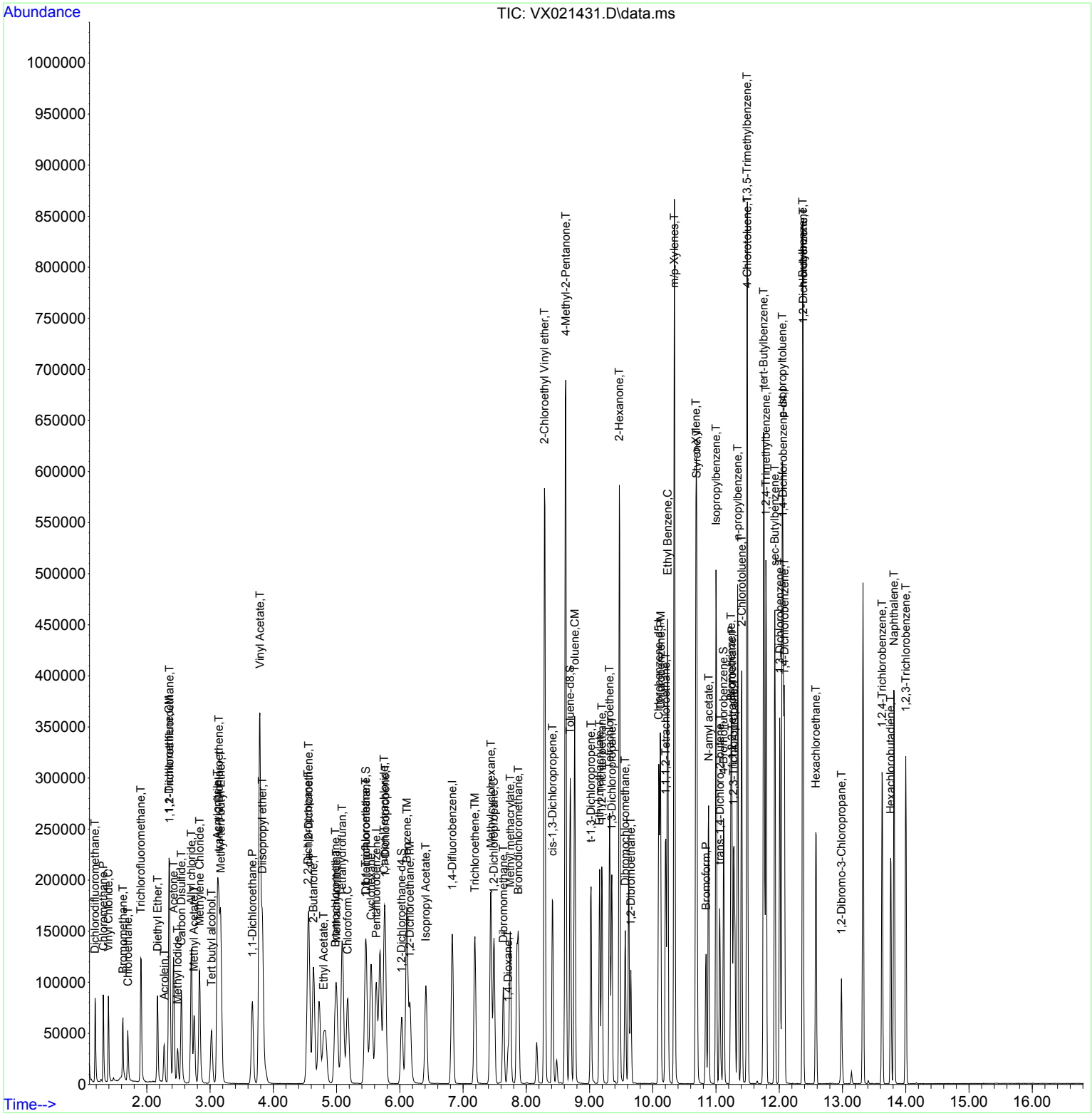
ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021431.D
Acq On : 24 Mar 2021 12:43
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 24 17:16:36 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

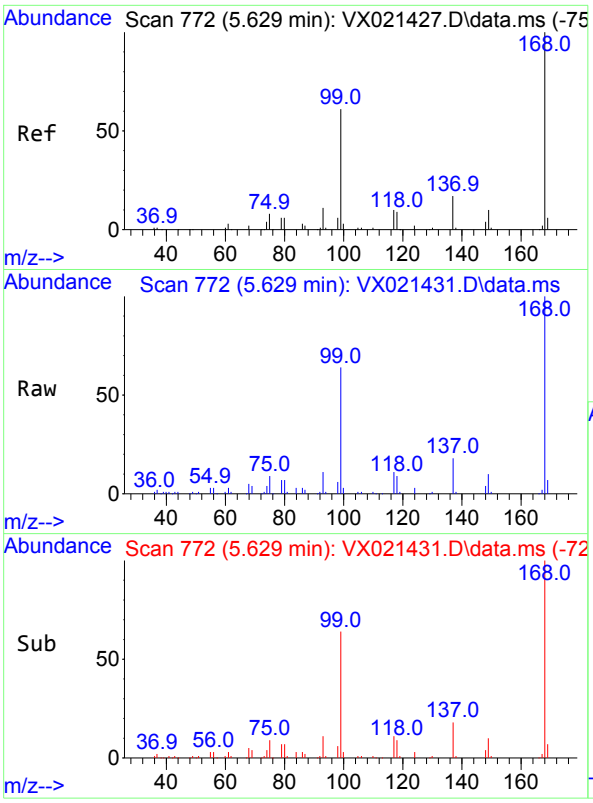
Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

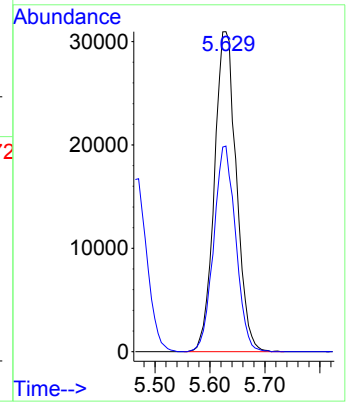
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

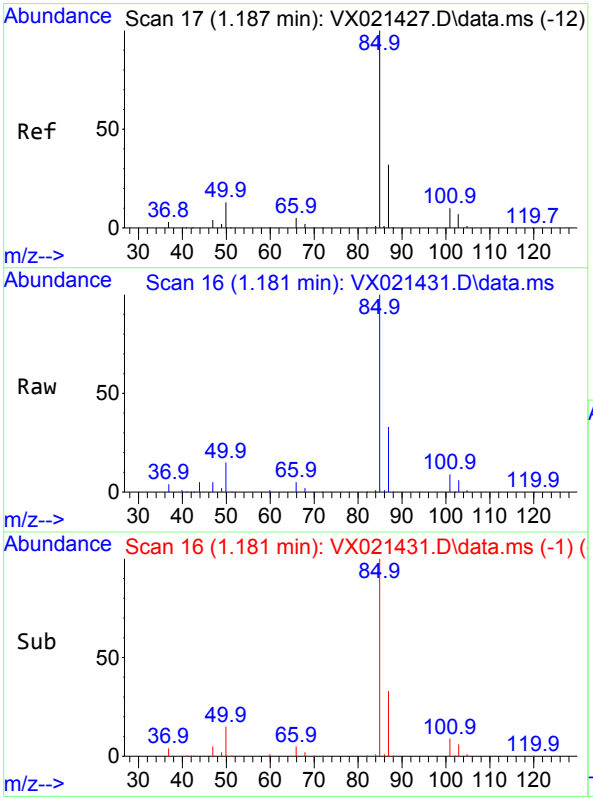


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 772
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:168 Resp: 85916

Ion	Ratio	Lower	Upper
168	100		
99	64.3	45.8	68.6

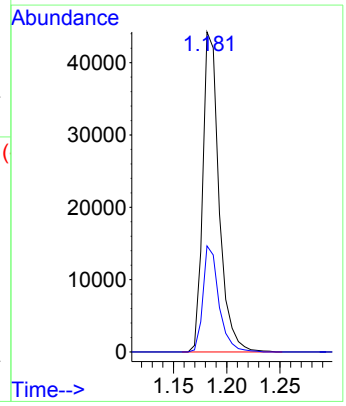




#2
Dichlorodifluoromethane
Concen: 49.98 ug/l
RT: 1.181 min Scan# 16
Delta R.T. -0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

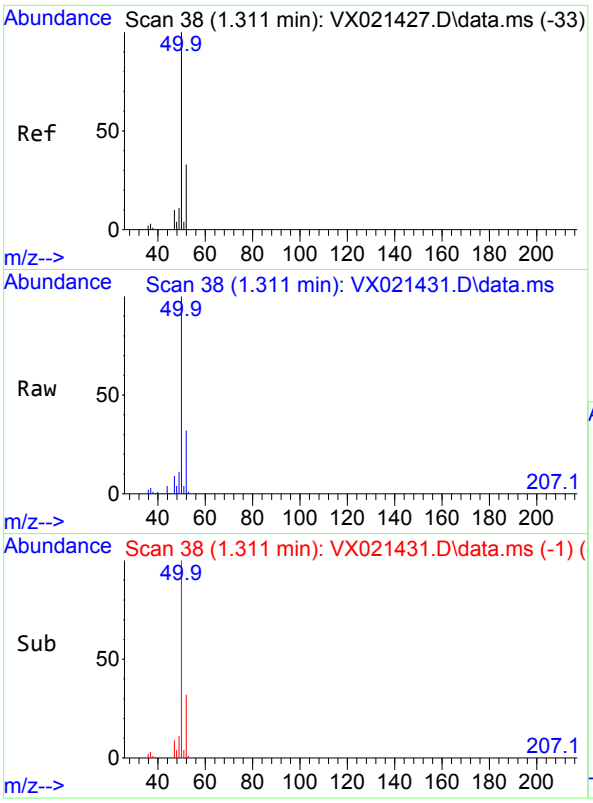
Tgt Ion: 85 Resp: 47202

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

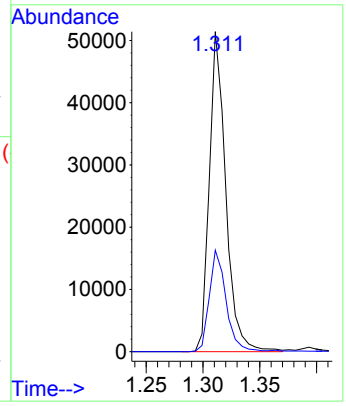
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

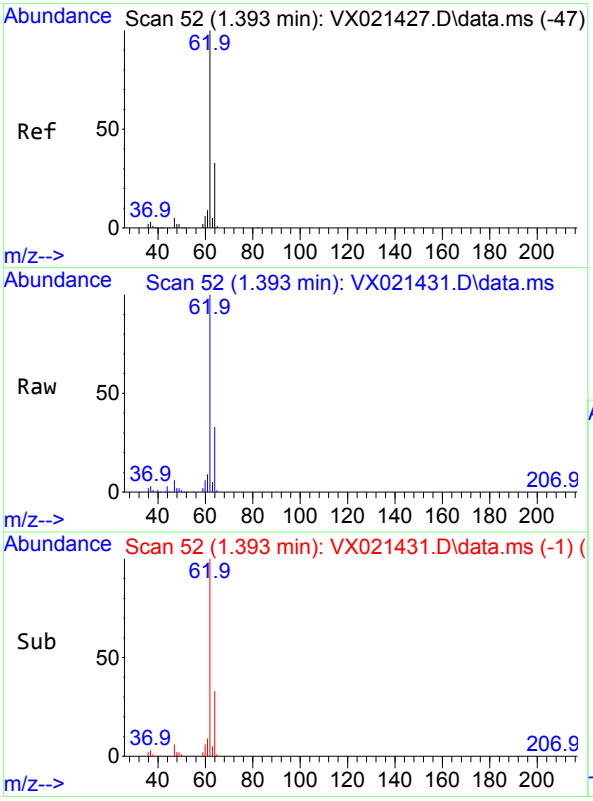


#3
Chloromethane
Concen: 47.59 ug/l
RT: 1.311 min Scan# 38
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 50 Resp: 51665

Ion	Ratio	Lower	Upper
50	100		
52	31.7	26.4	39.6

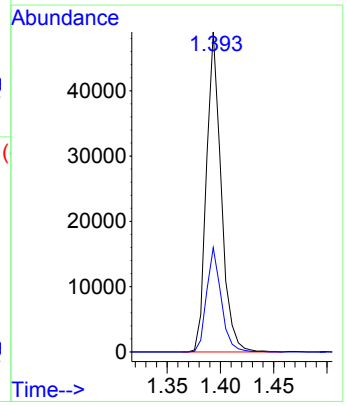




#4
Vinyl Chloride
Concen: 49.02 ug/l
RT: 1.393 min Scan# 52
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

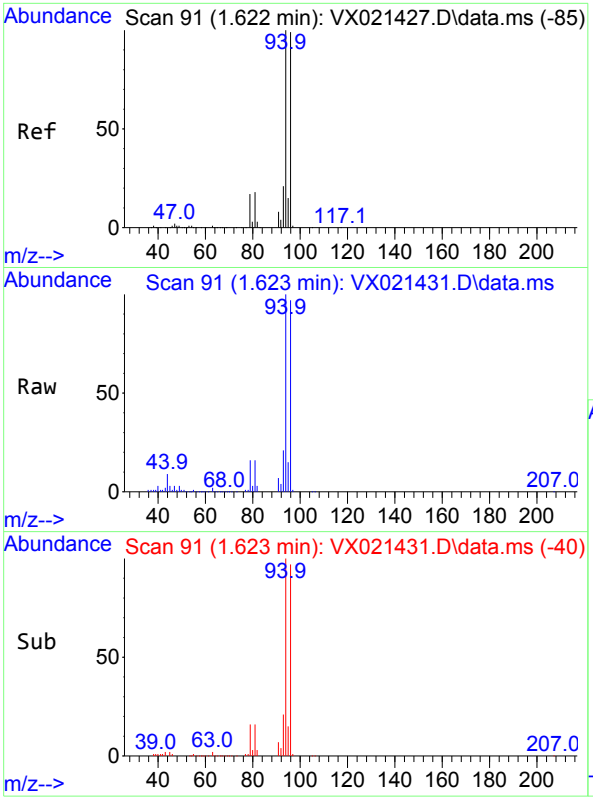
Tgt Ion: 62 Resp: 47344

Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

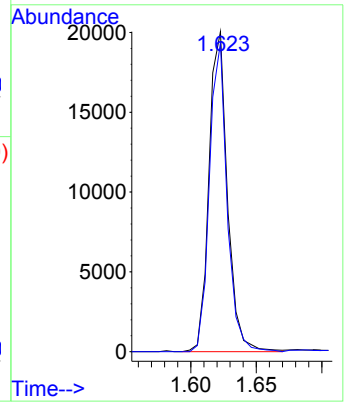
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

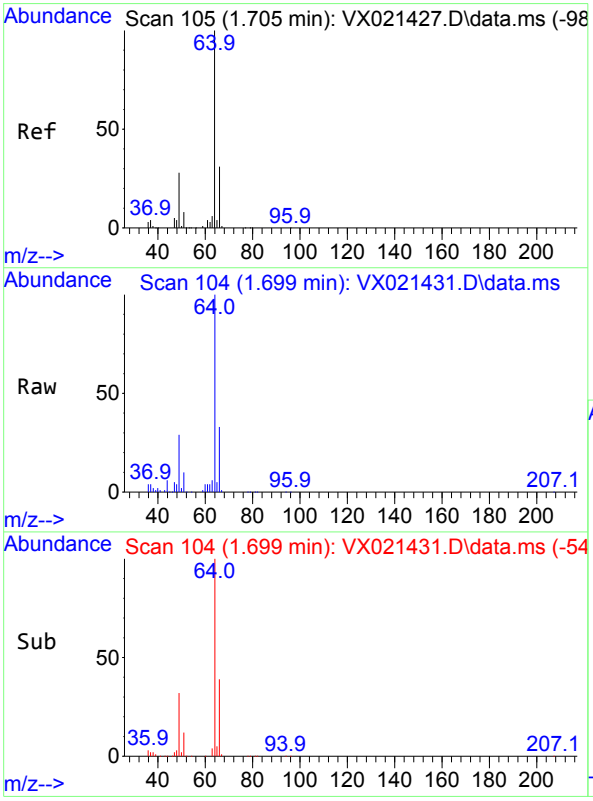


#5
Bromomethane
Concen: 50.63 ug/l
RT: 1.623 min Scan# 91
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 94 Resp: 19682

Ion	Ratio	Lower	Upper
94	100		
96	96.5	76.4	114.6

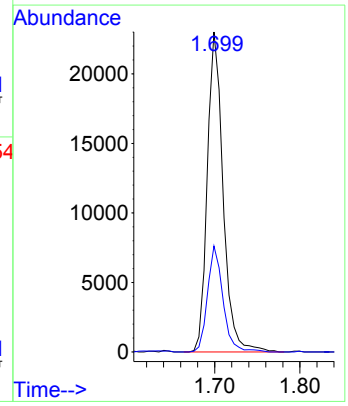




#6
Chloroethane
Concen: 48.39 ug/l
RT: 1.699 min Scan# 104
Delta R.T. -0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

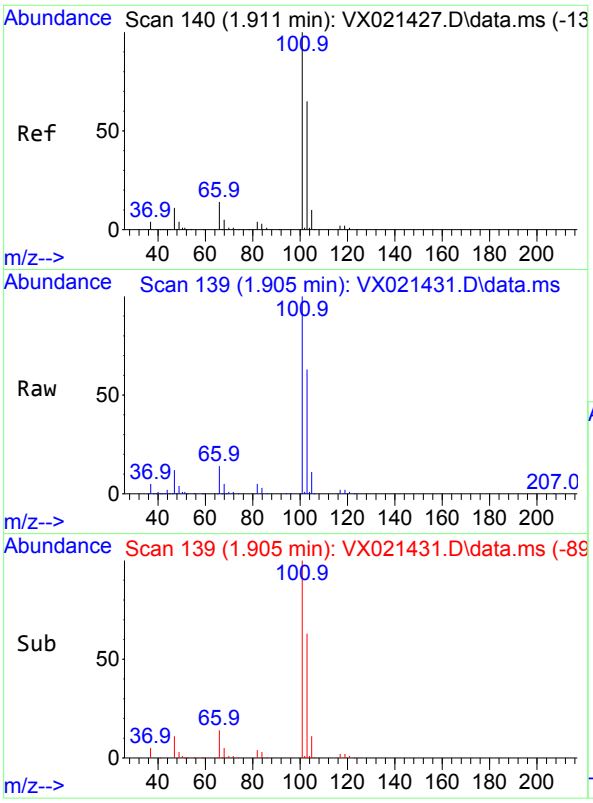
Tgt Ion: 64 Resp: 29642

Ion	Ratio	Lower	Upper
64	100		
66	33.1	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

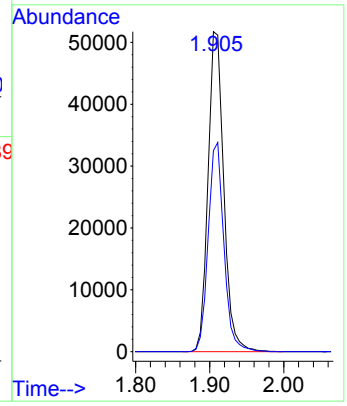
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

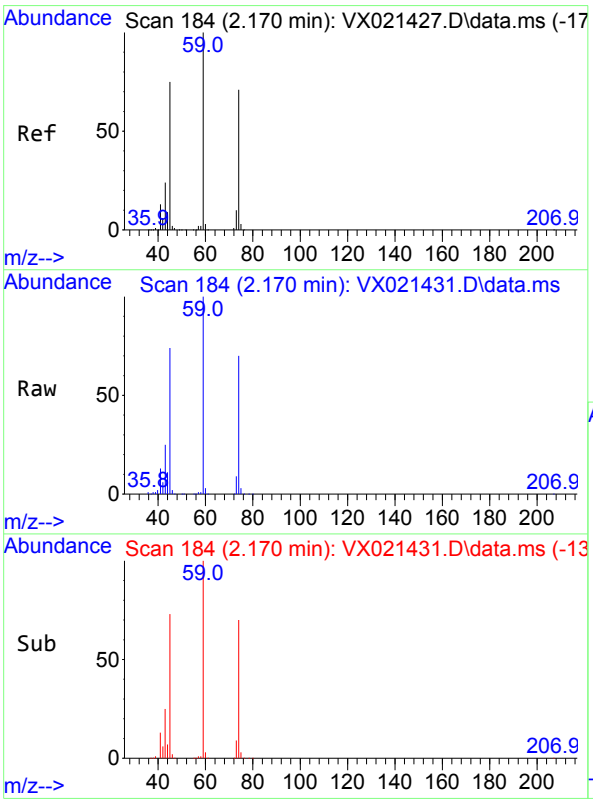


#7
Trichlorofluoromethane
Concen: 48.68 ug/l
RT: 1.905 min Scan# 139
Delta R.T. -0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:101 Resp: 76482

Ion	Ratio	Lower	Upper
101	100		
103	62.9	53.2	79.8

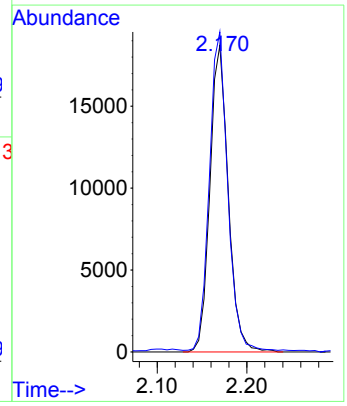




#8
Diethyl Ether
Concen: 48.74 ug/l
RT: 2.170 min Scan# 184
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

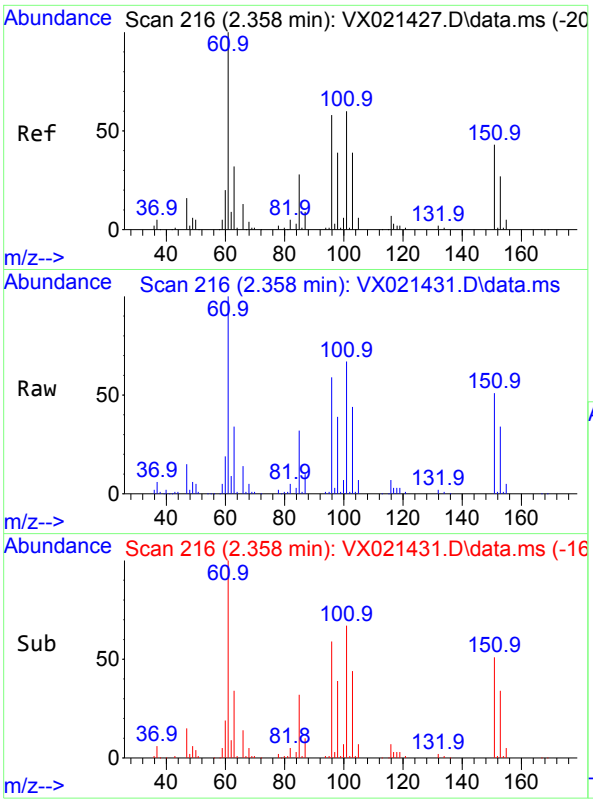
Tgt Ion: 74 Resp: 26571

Ion	Ratio	Lower	Upper
74	100		
45	106.1	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

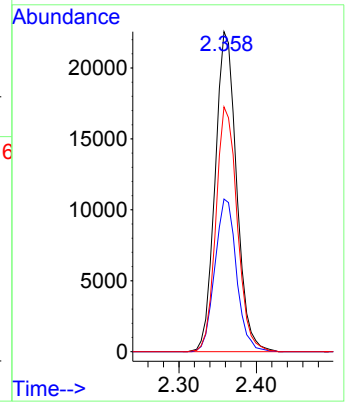
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

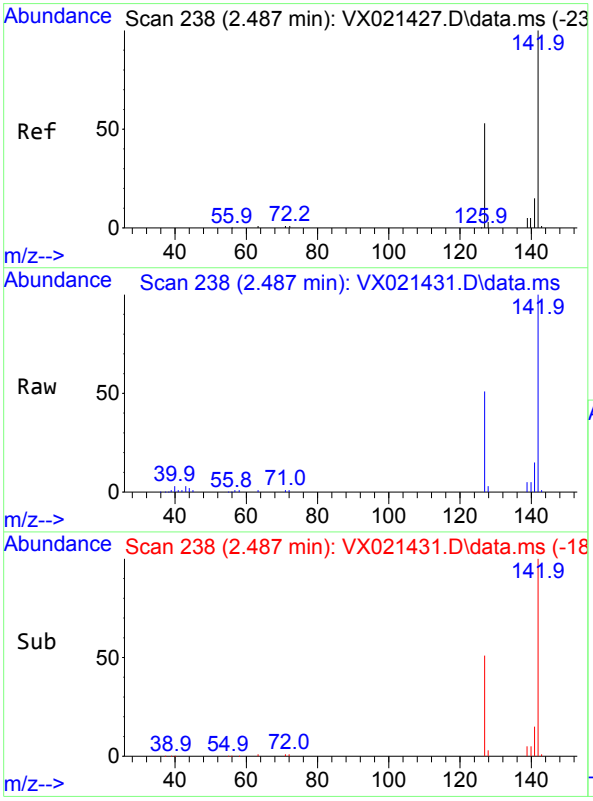


#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.21 ug/l
RT: 2.358 min Scan# 216
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:101 Resp: 43520

Ion	Ratio	Lower	Upper
101	100		
85	48.1	34.9	52.3
151	76.0	61.4	92.2

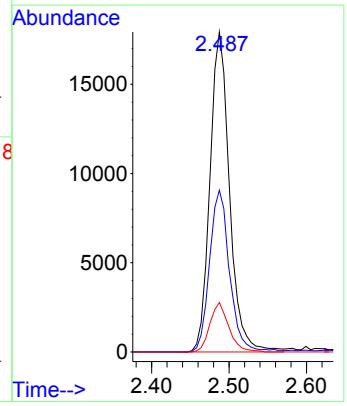




#10
Methyl Iodide
Concen: 46.29 ug/l
RT: 2.487 min Scan# 238
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

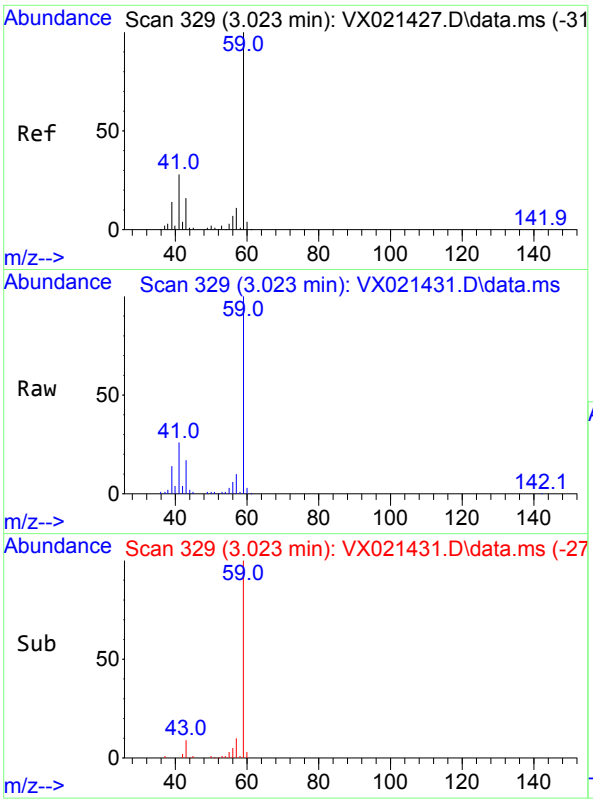
Tgt Ion:142 Resp: 31571

Ion	Ratio	Lower	Upper
142	100		
127	51.7	33.3	49.9#
141	14.9	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

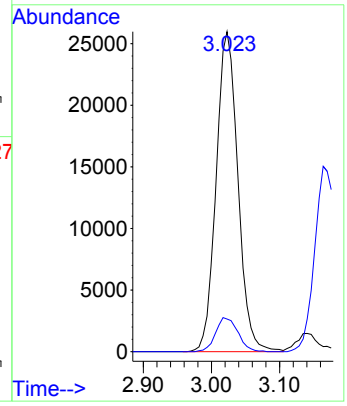
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

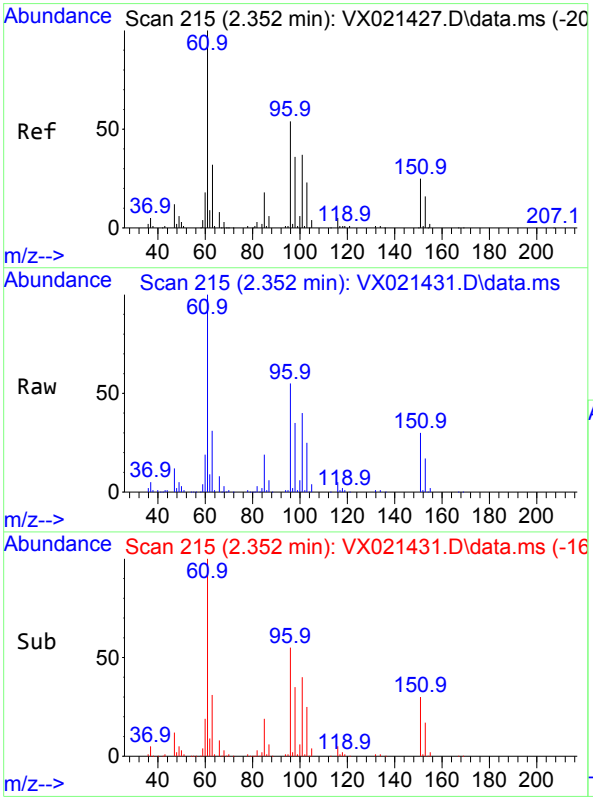


#11
Tert butyl alcohol
Concen: 244.24 ug/l
RT: 3.023 min Scan# 329
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 59 Resp: 57722

Ion	Ratio	Lower	Upper
59	100		
57	10.9	7.8	11.8

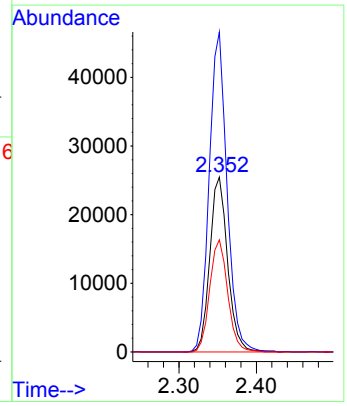




#12
1,1-Dichloroethene
Concen: 47.09 ug/l
RT: 2.352 min Scan# 215
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

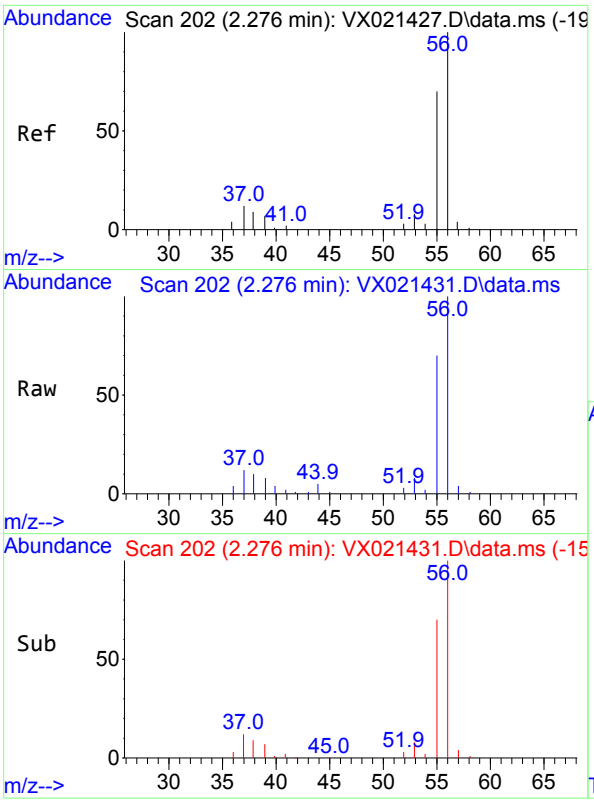
Tgt Ion: 96 Resp: 40773

Ion	Ratio	Lower	Upper
96	100		
61	183.0	124.6	187.0
98	64.1	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

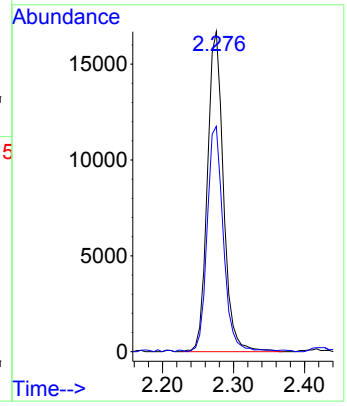
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

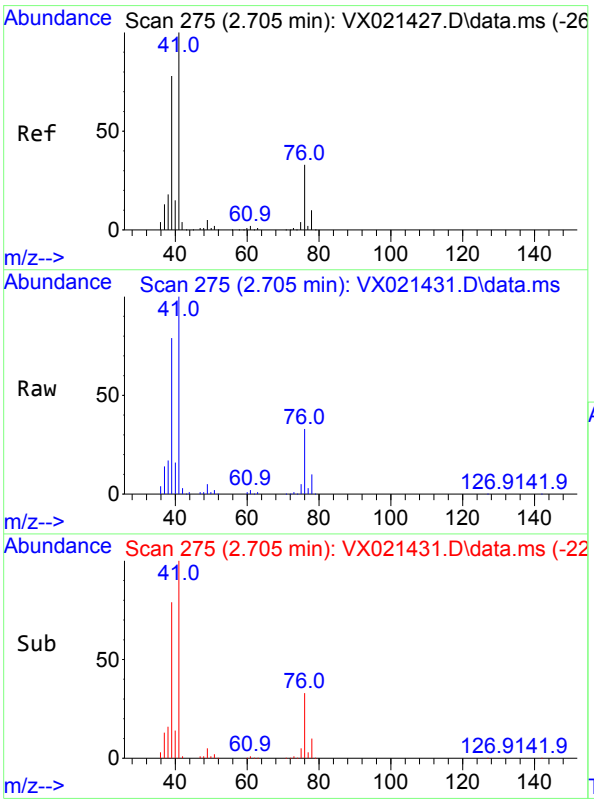


#13
Acrolein
Concen: 221.19 ug/l
RT: 2.276 min Scan# 202
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 56 Resp: 26307

Ion	Ratio	Lower	Upper
56	100		
55	70.9	56.4	84.6

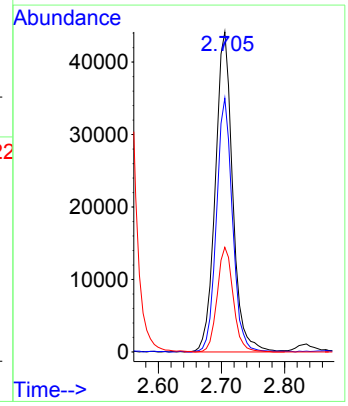




#14
Allyl chloride
Concen: 48.17 ug/l
RT: 2.705 min Scan# 275
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

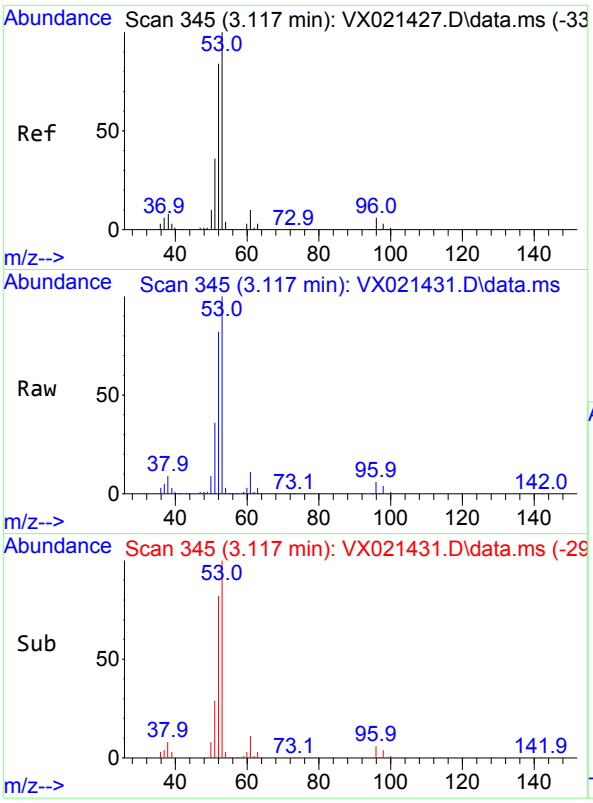
Tgt Ion: 41 Resp: 84659

Ion	Ratio	Lower	Upper
41	100		
39	73.2	51.6	77.4
76	30.2	30.5	45.7#



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

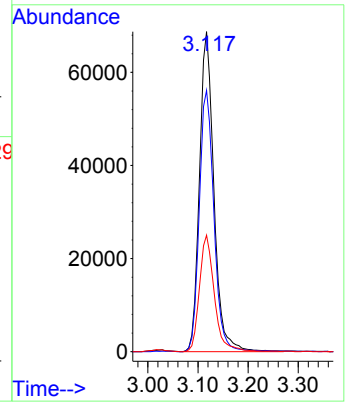
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

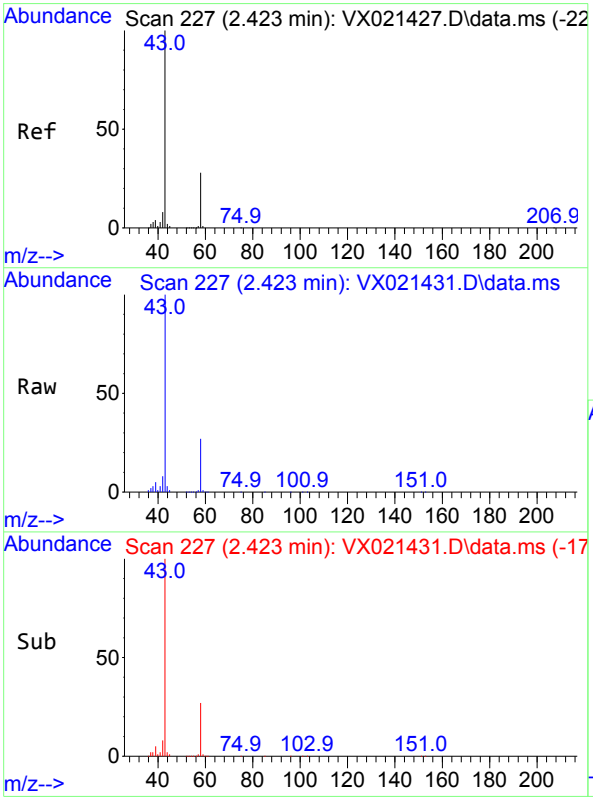


#15
Acrylonitrile
Concen: 244.42 ug/l
RT: 3.117 min Scan# 345
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 53 Resp: 137280

Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.3	97.9
51	37.7	28.2	42.2

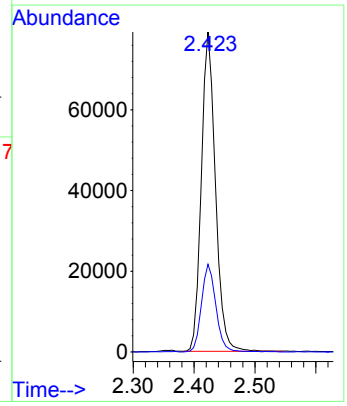




#16
Acetone
Concen: 235.02 ug/l
RT: 2.423 min Scan# 227
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

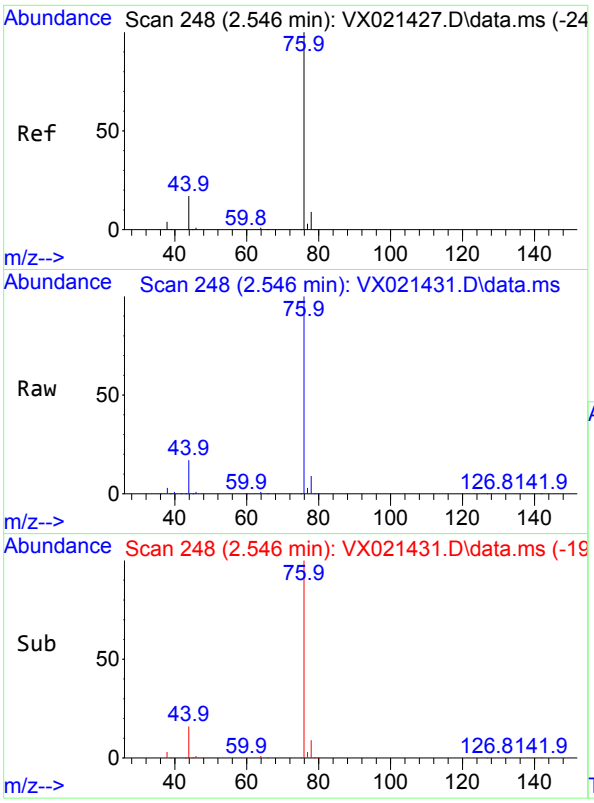
Tgt Ion: 43 Resp: 127030

Ion	Ratio	Lower	Upper
43	100		
58	27.5	27.8	41.8#



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

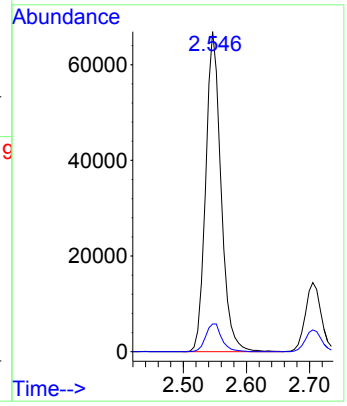
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

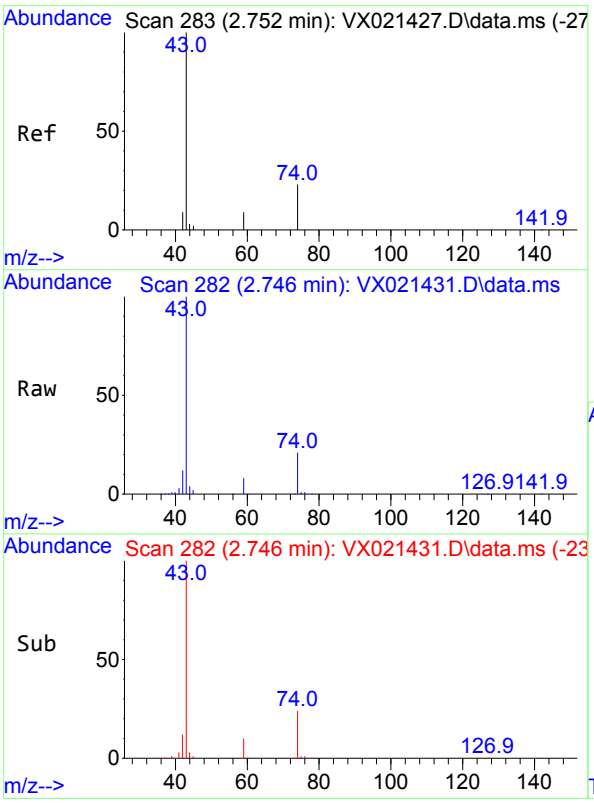


#17
Carbon Disulfide
Concen: 46.39 ug/l
RT: 2.546 min Scan# 248
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 76 Resp: 112777

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.2	10.8

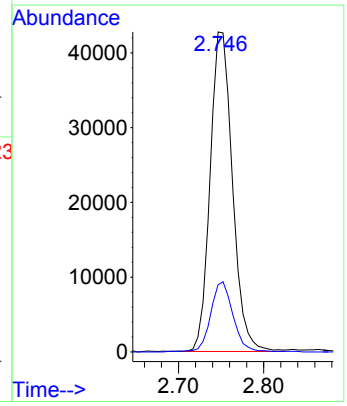




#18
Methyl Acetate
Concen: 49.92 ug/l
RT: 2.746 min Scan# 282
Delta R.T. -0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

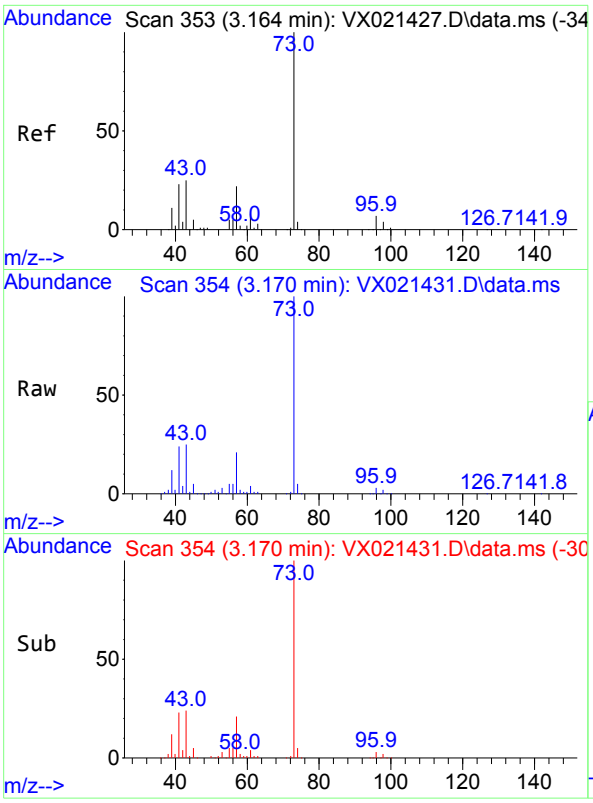
Tgt Ion: 43 Resp: 77947

Ion	Ratio	Lower	Upper
43	100		
74	22.0	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

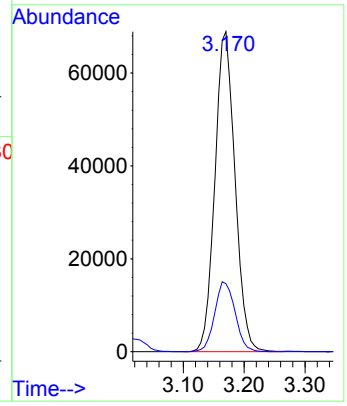
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

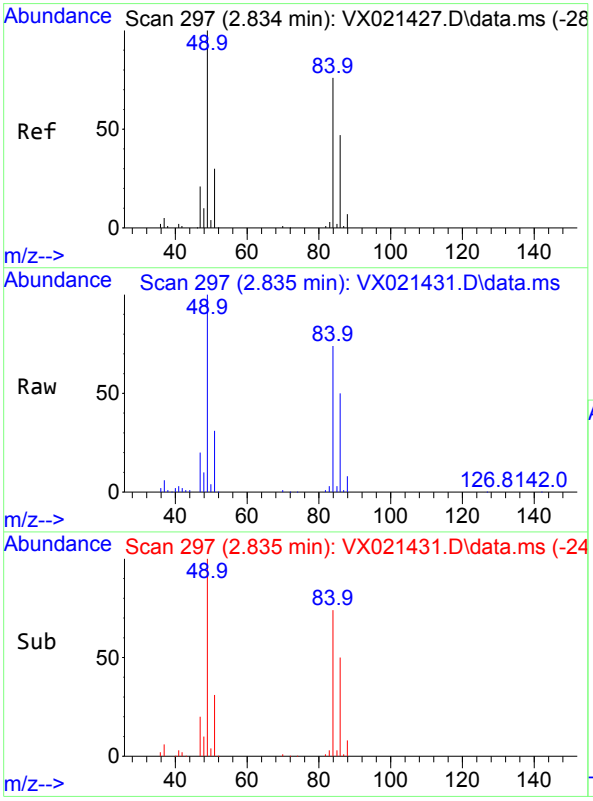


#19
Methyl tert-butyl Ether
Concen: 48.91 ug/l
RT: 3.170 min Scan# 354
Delta R.T. 0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 73 Resp: 158135

Ion	Ratio	Lower	Upper
73	100		
57	21.2	17.1	25.7

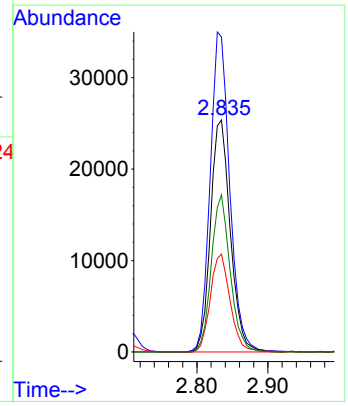




#20
Methylene Chloride
Concen: 46.61 ug/l
RT: 2.835 min Scan# 297
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

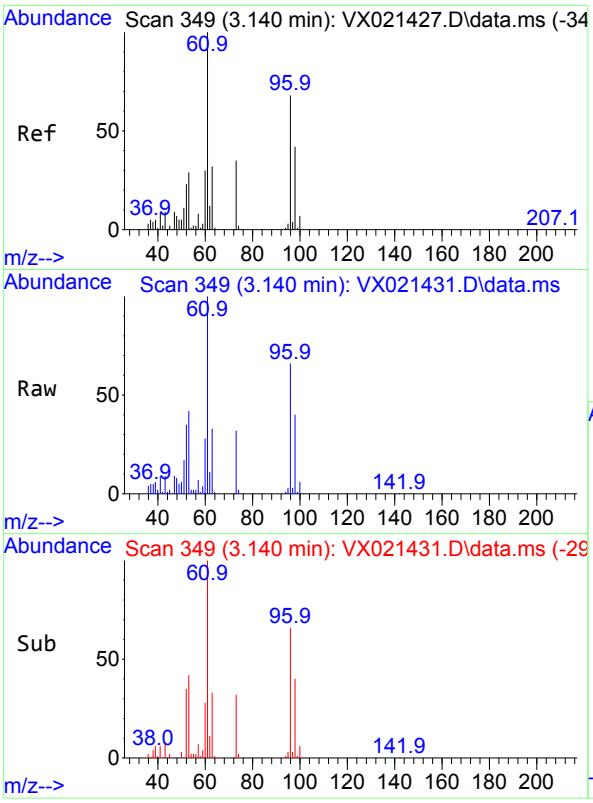
Tgt Ion: 84 Resp: 49164

Ion	Ratio	Lower	Upper
84	100		
49	135.7	88.6	132.8#
51	42.2	27.0	40.6#
86	67.7	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

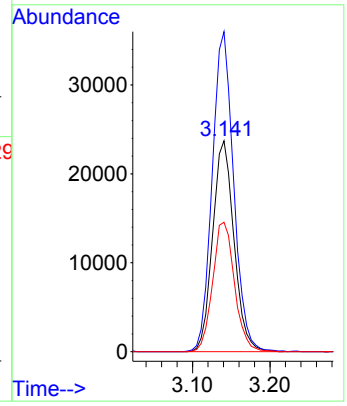
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

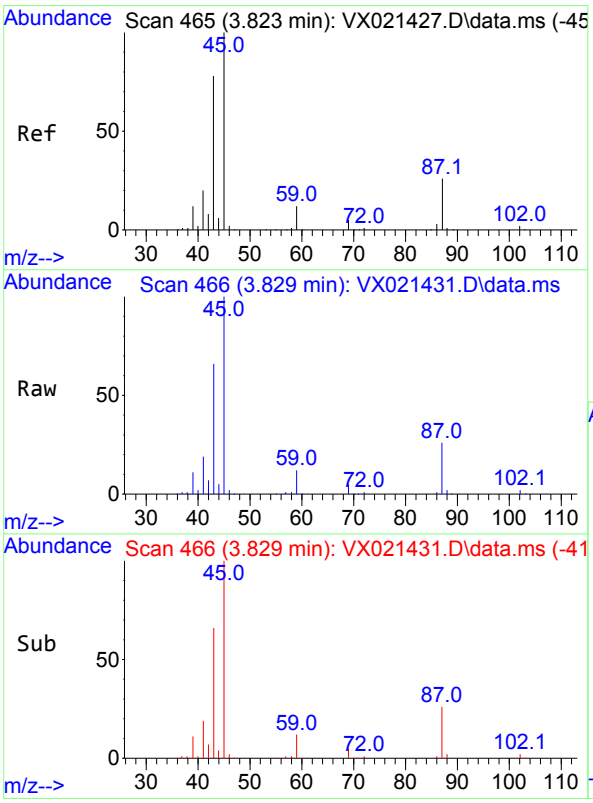


#21
trans-1,2-Dichloroethene
Concen: 47.83 ug/l
RT: 3.140 min Scan# 349
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 96 Resp: 45491

Ion	Ratio	Lower	Upper
96	100		
61	151.7	107.7	161.5
98	61.4	50.4	75.6

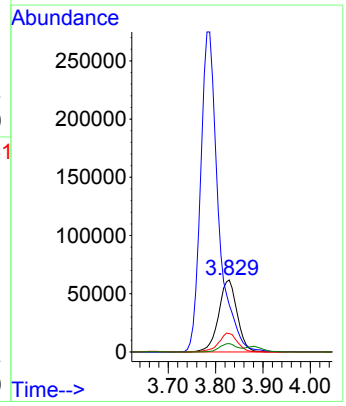




#22
Diisopropyl ether
Concen: 49.14 ug/l
RT: 3.829 min Scan# 466
Delta R.T. 0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

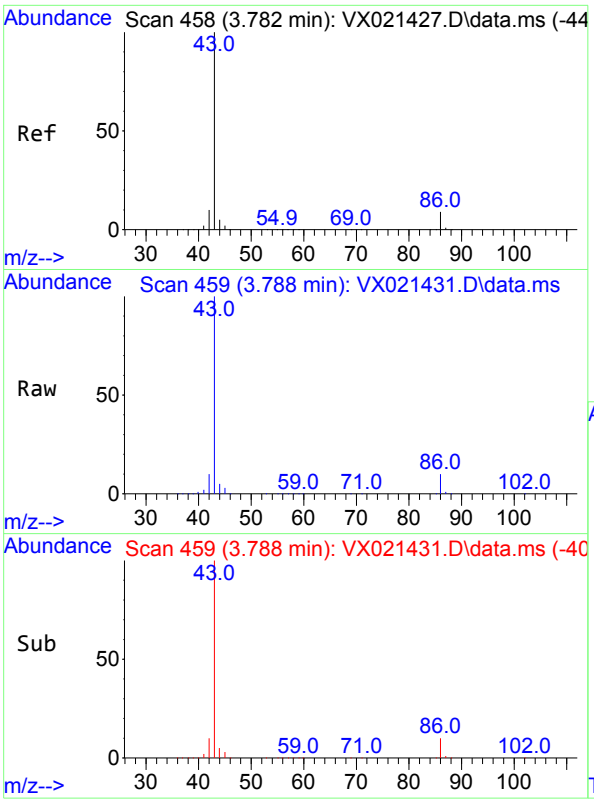
Tgt Ion: 45 Resp: 167782

Ion	Ratio	Lower	Upper
45	100		
43	65.4	58.0	87.0
87	25.6	25.4	38.0
59	11.5	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

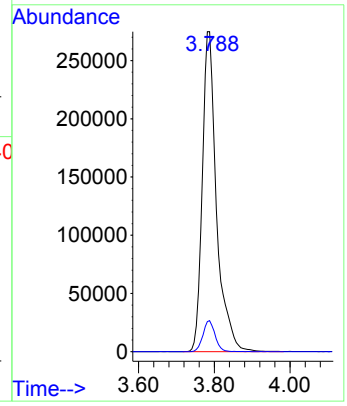
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

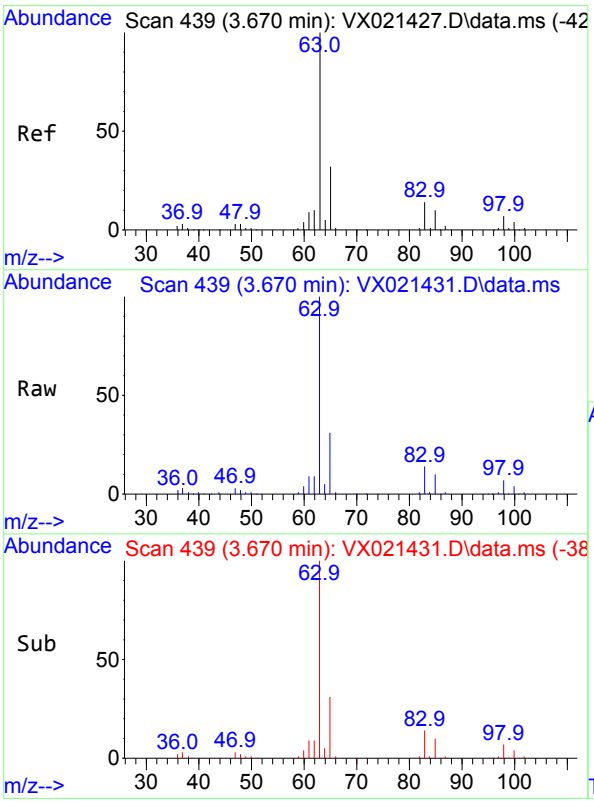


#23
Vinyl Acetate
Concen: 249.36 ug/l
RT: 3.788 min Scan# 459
Delta R.T. 0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 43 Resp: 720192

Ion	Ratio	Lower	Upper
43	100		
86	9.7	9.9	14.9#

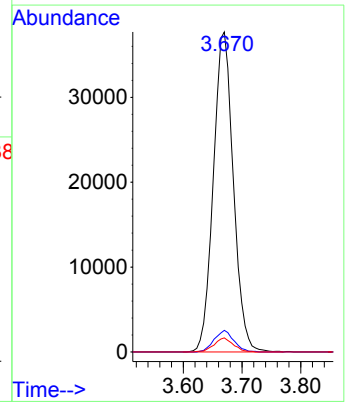




#24
1,1-Dichloroethane
Concen: 48.41 ug/l
RT: 3.670 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

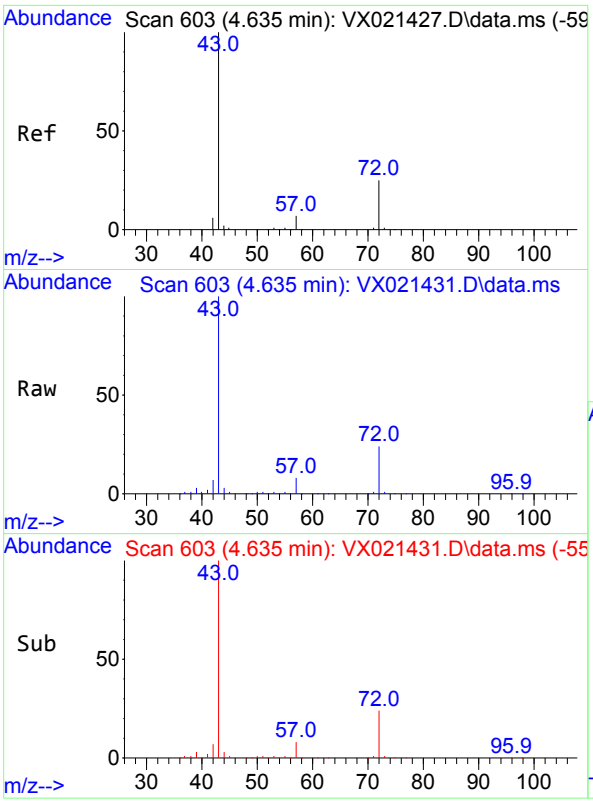
Tgt Ion: 63 Resp: 89112

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.8	11.2
100	4.4	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

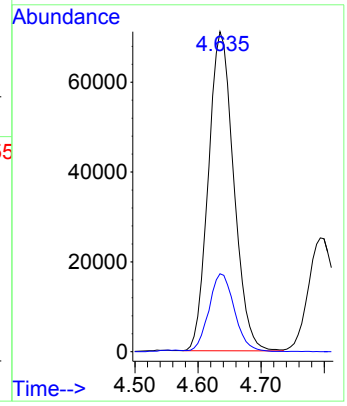
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

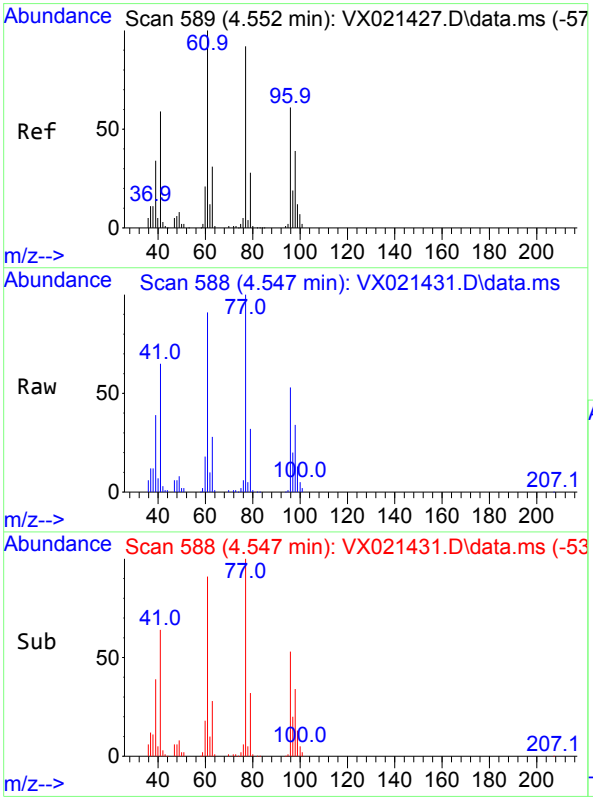


#25
2-Butanone
Concen: 241.71 ug/l
RT: 4.635 min Scan# 603
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 43 Resp: 198043

Ion	Ratio	Lower	Upper
43	100		
72	24.3	23.7	35.5

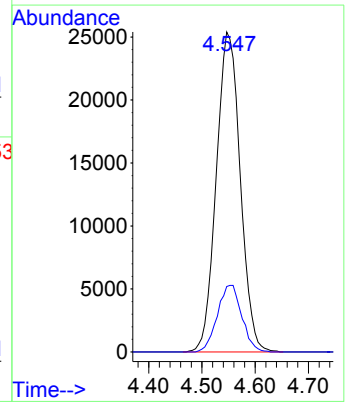




#26
2,2-Dichloropropane
Concen: 49.71 ug/l
RT: 4.547 min Scan# 588
Delta R.T. -0.005 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

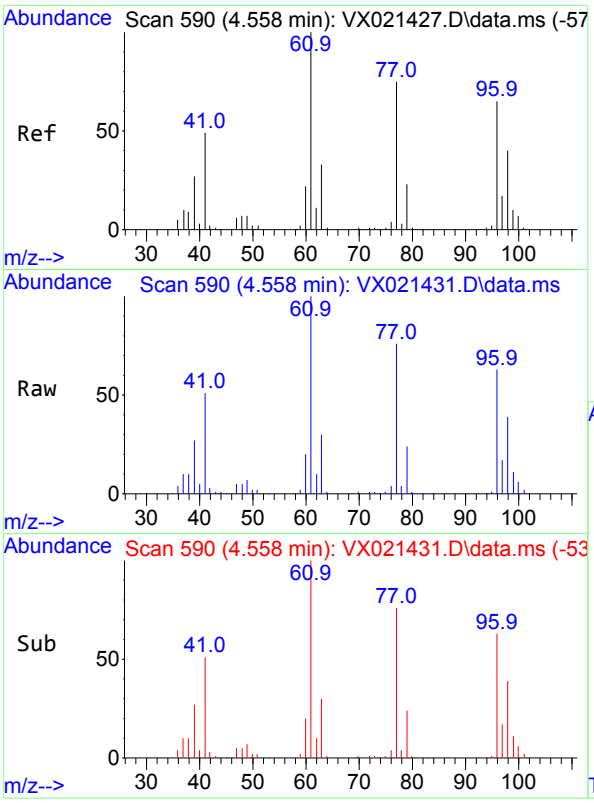
Tgt Ion: 77 Resp: 79270

Ion	Ratio	Lower	Upper
77	100		
97	21.2	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

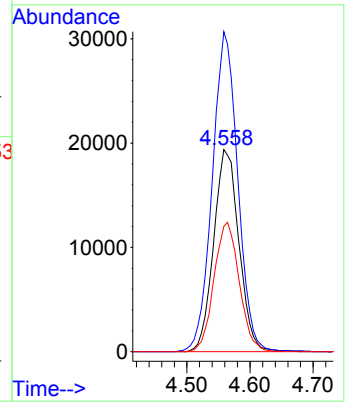
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

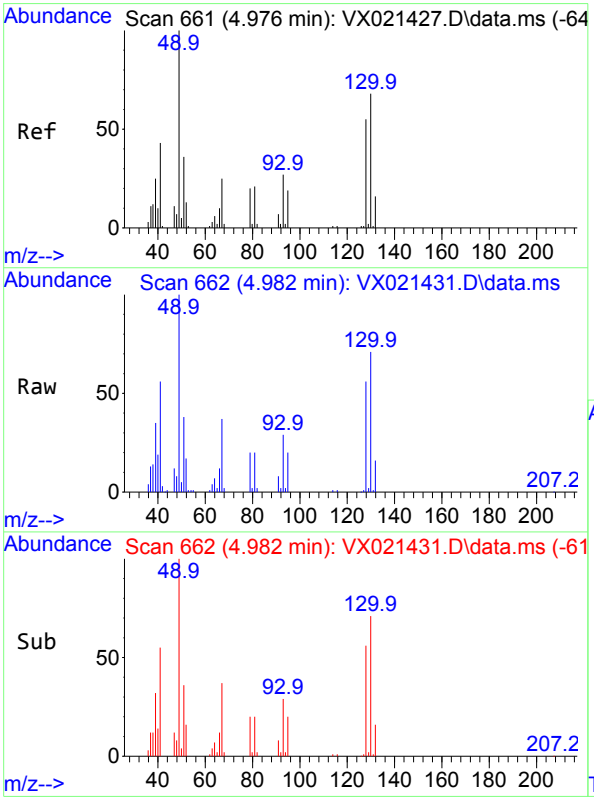


#27
cis-1,2-Dichloroethene
Concen: 48.74 ug/l
RT: 4.558 min Scan# 590
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 96 Resp: 53822

Ion	Ratio	Lower	Upper
96	100		
61	159.9	0.0	285.6
98	64.0	0.0	129.6

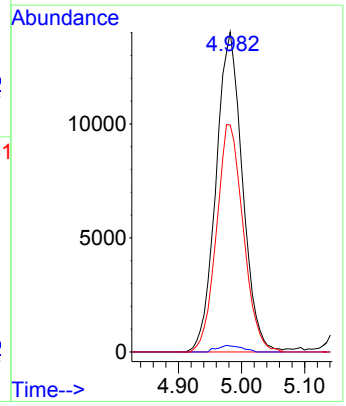




#28
Bromochloromethane
Concen: 44.31 ug/l
RT: 4.982 min Scan# 662
Delta R.T. 0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

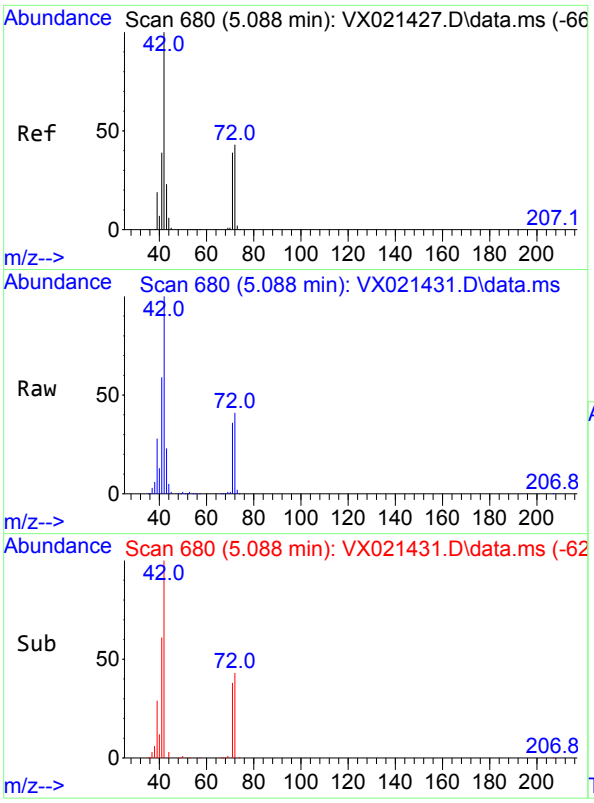
Tgt Ion: 49 Resp: 40839

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	72.0	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

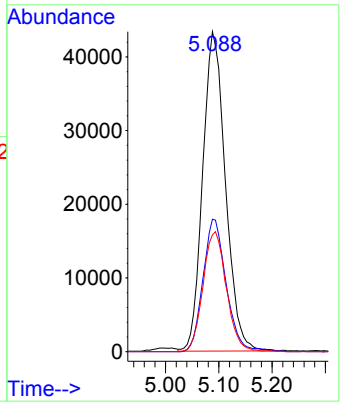
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

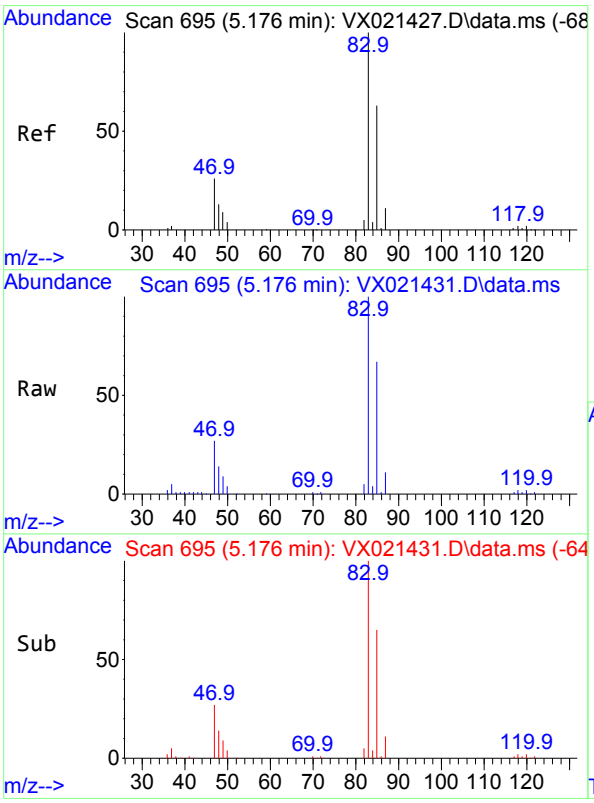


#29
Tetrahydrofuran
Concen: 241.79 ug/l
RT: 5.088 min Scan# 680
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 42 Resp: 128449

Ion	Ratio	Lower	Upper
42	100		
72	42.4	41.7	62.5
71	38.6	38.4	57.6

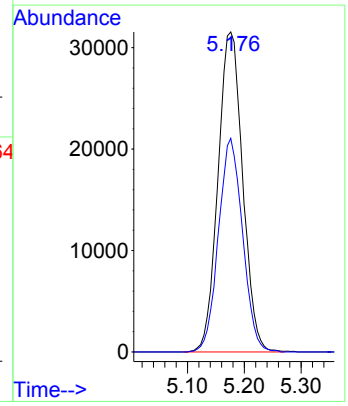




#30
Chloroform
Concen: 49.02 ug/l
RT: 5.176 min Scan# 695
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

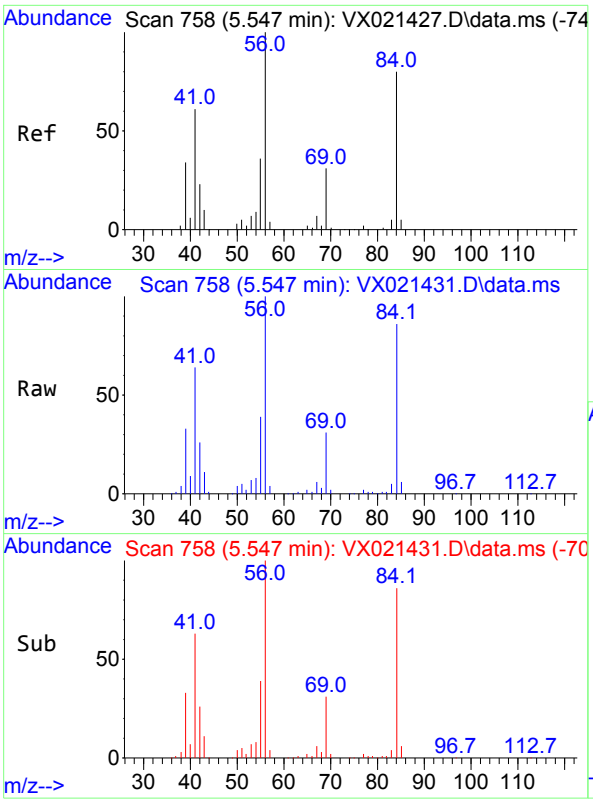
Tgt Ion: 83 Resp: 95242

Ion	Ratio	Lower	Upper
83	100		
85	66.8	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

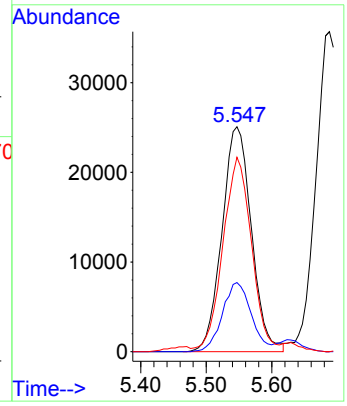
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

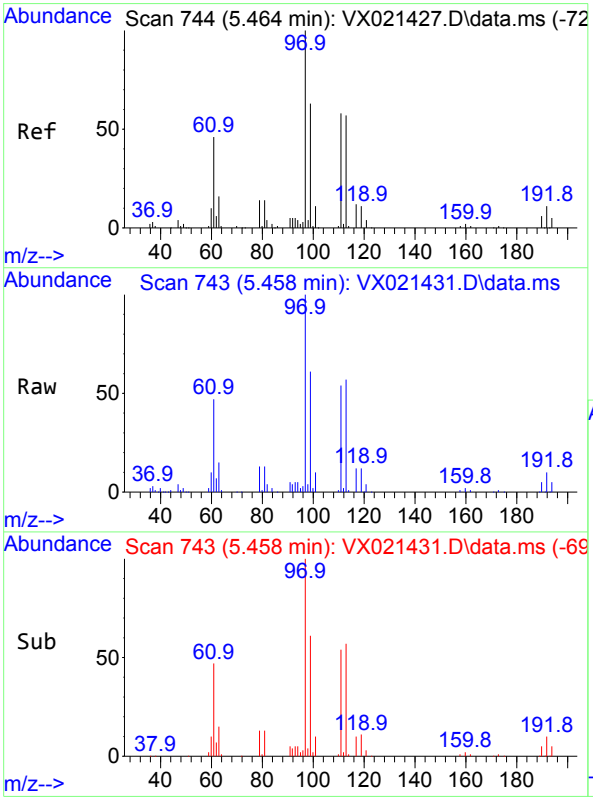


#31
Cyclohexane
Concen: 49.74 ug/l
RT: 5.547 min Scan# 758
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 56 Resp: 78196

Ion	Ratio	Lower	Upper
56	100		
69	30.7	25.3	37.9
84	84.3	71.4	107.0

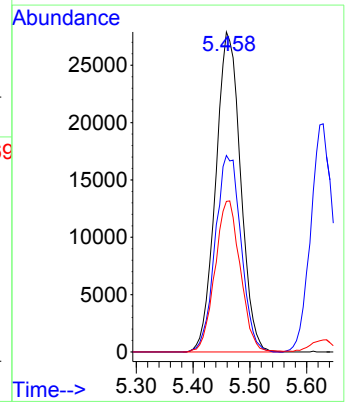




#32
1,1,1-Trichloroethane
Concen: 49.22 ug/l
RT: 5.458 min Scan# 743
Delta R.T. -0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

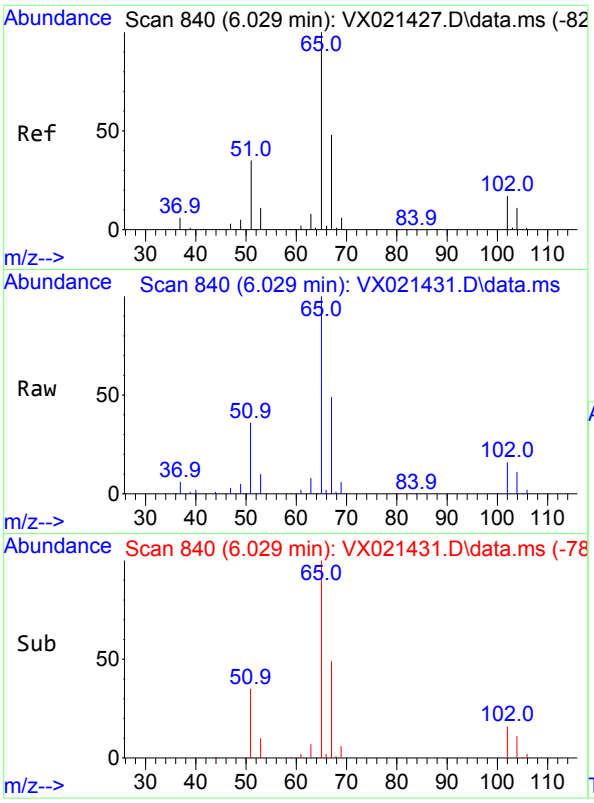
Tgt Ion: 97 Resp: 84744

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.5	77.3
61	48.2	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

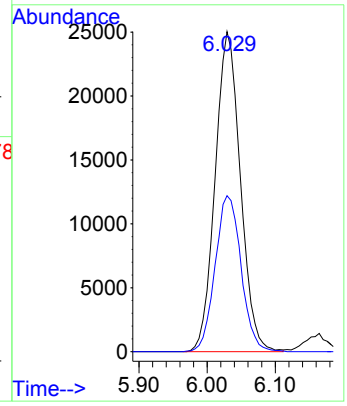
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

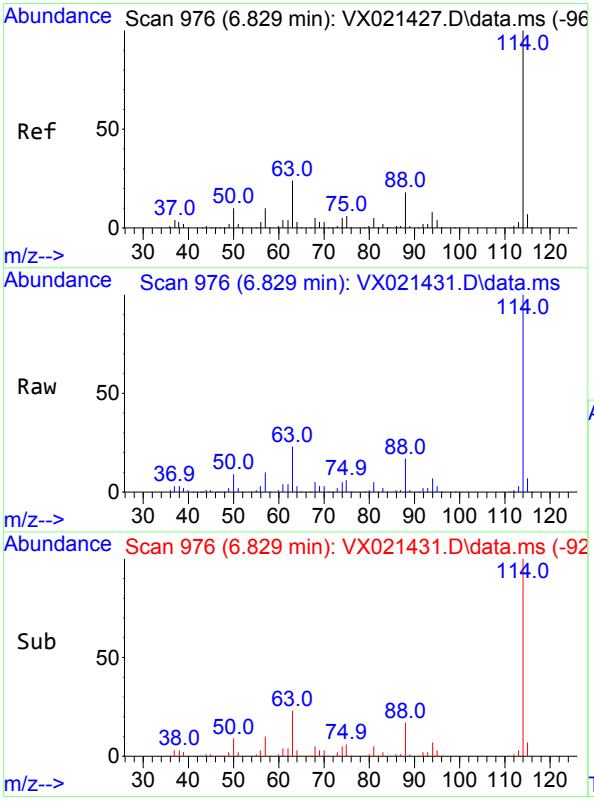


#33
1,2-Dichloroethane-d4
Concen: 45.11 ug/l
RT: 6.029 min Scan# 840
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 65 Resp: 64489

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	105.4

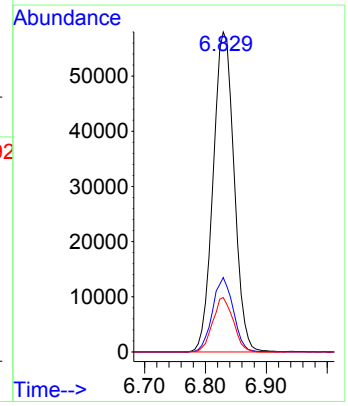




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

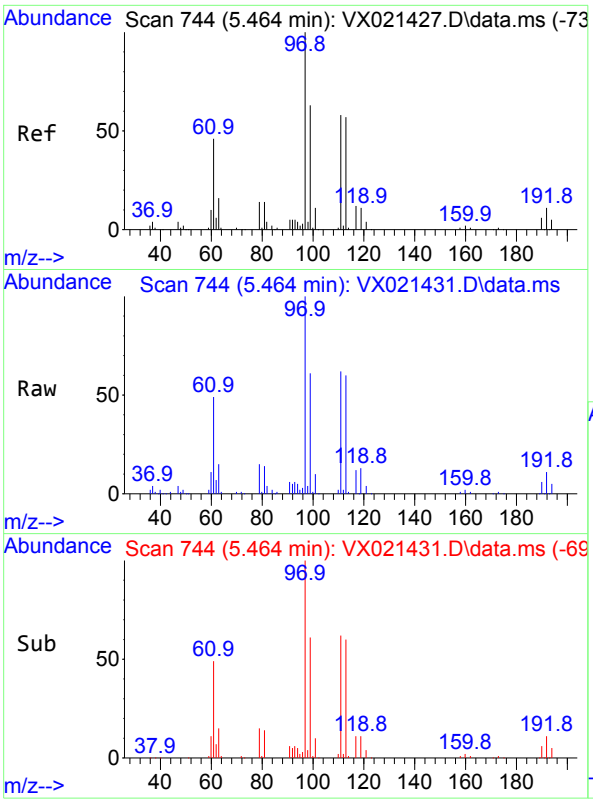
Tgt Ion:114 Resp: 138830

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	40.8
88	17.0	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

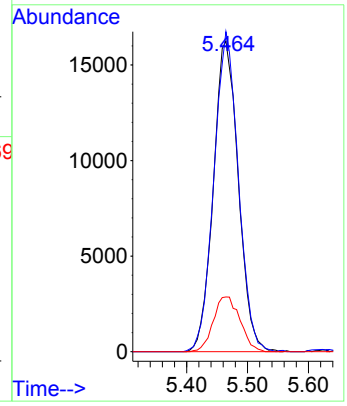
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

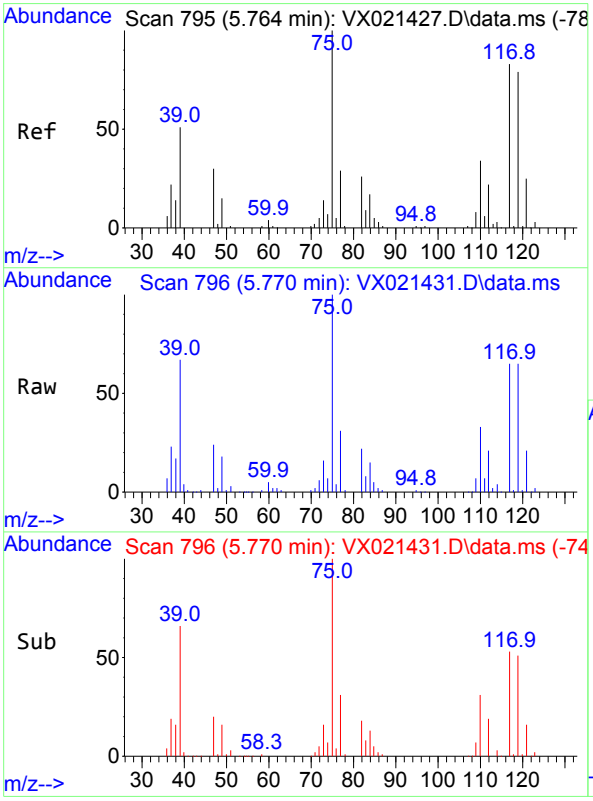


#35
Dibromofluoromethane
Concen: 46.95 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:113 Resp: 46301

Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.9	122.9
192	18.9	16.7	25.1

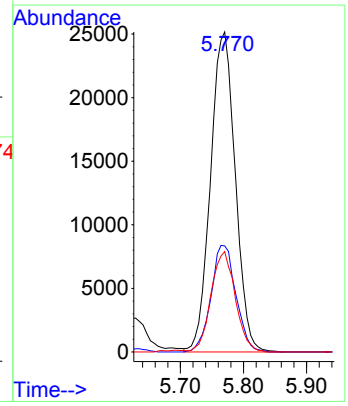




#36
1,1-Dichloropropene
Concen: 50.37 ug/l
RT: 5.770 min Scan# 796
Delta R.T. 0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

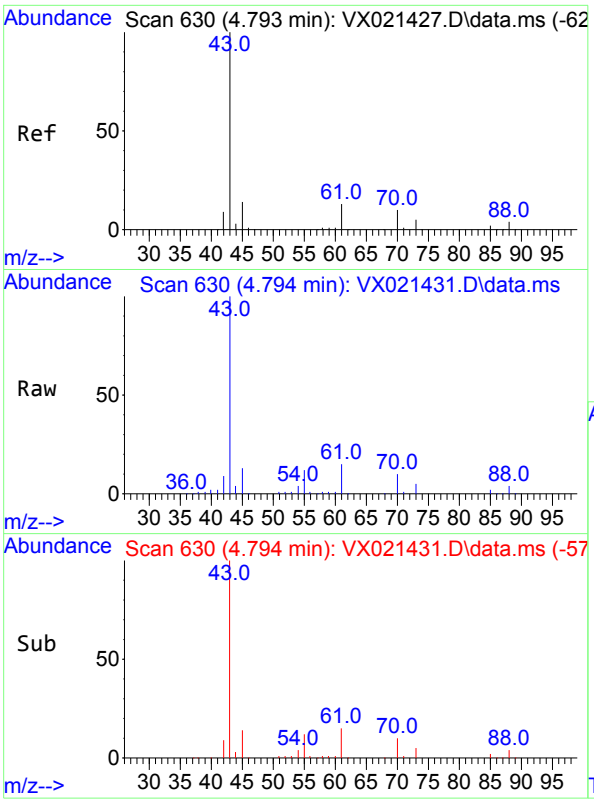
Tgt Ion: 75 Resp: 68516

Ion	Ratio	Lower	Upper
75	100		
110	33.5	18.1	54.4
77	30.8	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

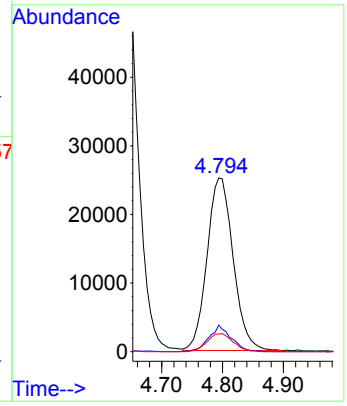
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

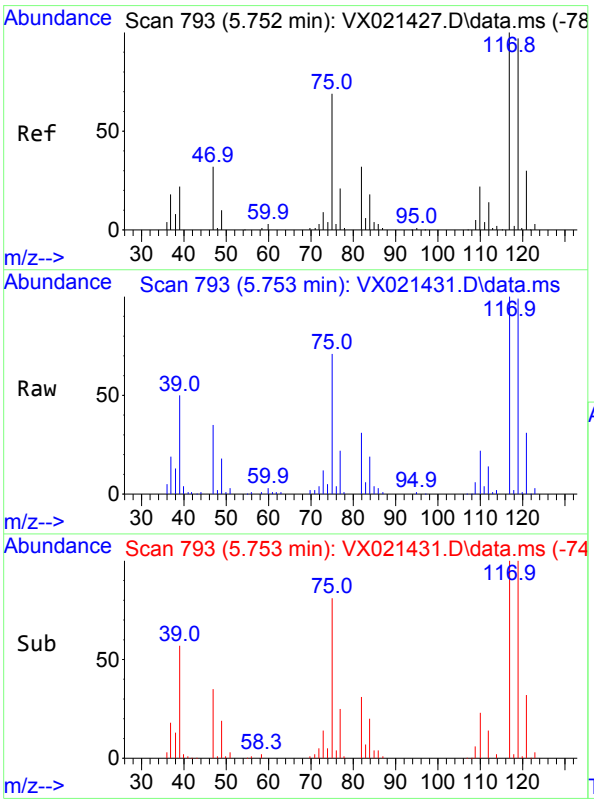


#37
Ethyl Acetate
Concen: 47.79 ug/l
RT: 4.794 min Scan# 630
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 43 Resp: 75175

Ion	Ratio	Lower	Upper
43	100		
61	13.1	12.8	19.2
70	10.4	10.5	15.7#

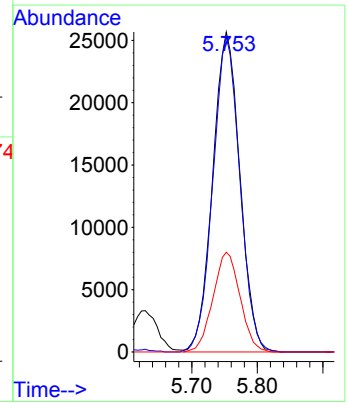




#38
Carbon Tetrachloride
Concen: 50.61 ug/l
RT: 5.753 min Scan# 793
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

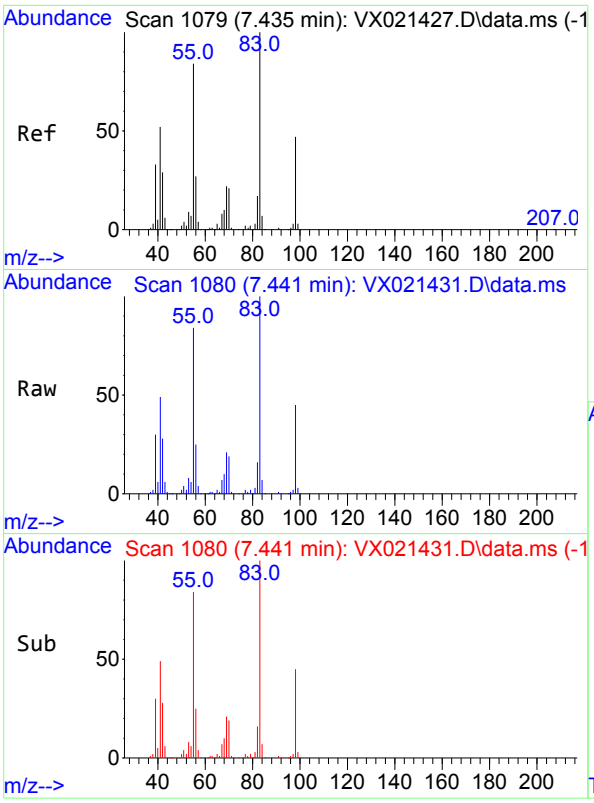
Tgt Ion:117 Resp: 73978

Ion	Ratio	Lower	Upper
117	100		
119	98.6	76.2	114.2
121	31.1	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

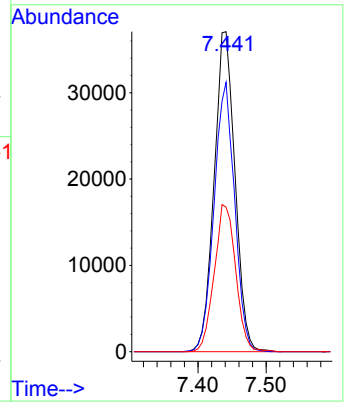
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

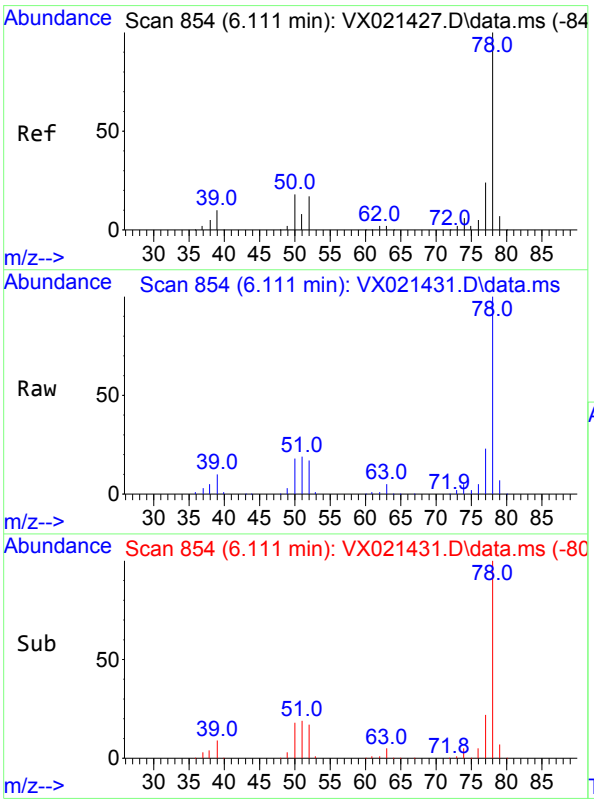


#39
Methylcyclohexane
Concen: 52.52 ug/l
RT: 7.441 min Scan# 1080
Delta R.T. 0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 83 Resp: 79198

Ion	Ratio	Lower	Upper
83	100		
55	84.2	58.9	88.3
98	45.2	38.1	57.1

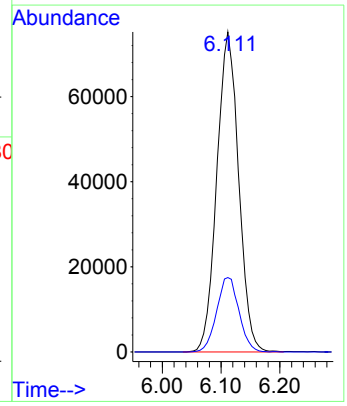




#40
Benzene
Concen: 50.11 ug/l
RT: 6.111 min Scan# 854
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

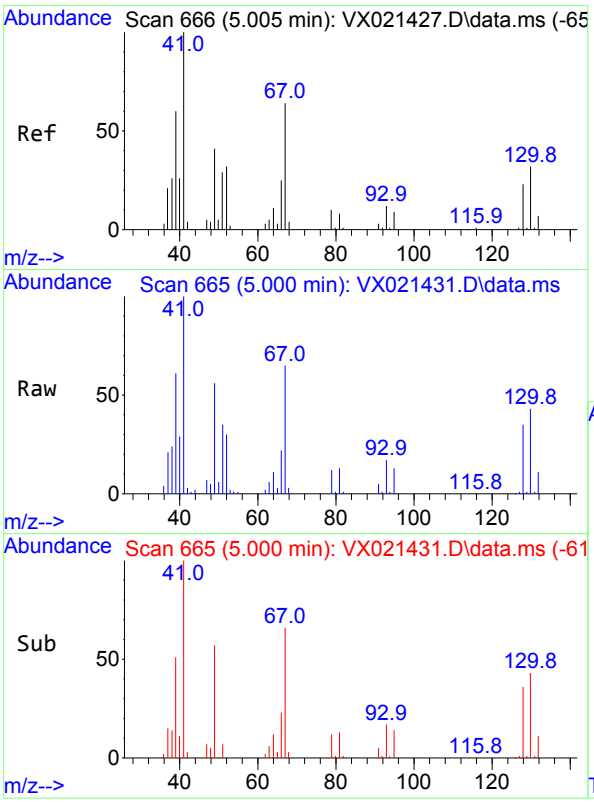
Tgt Ion: 78 Resp: 193565

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

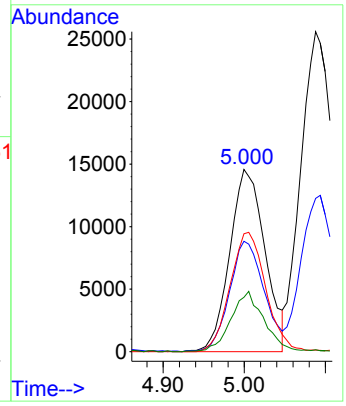
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

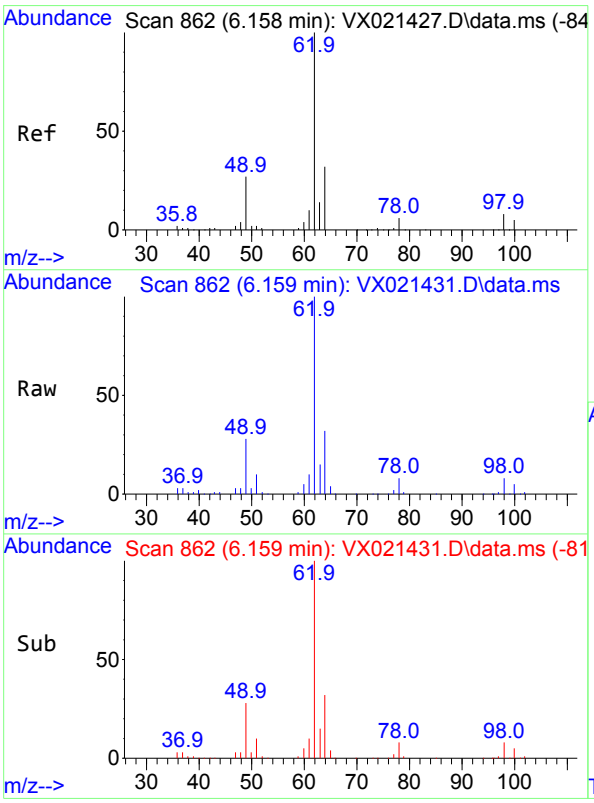


#41
Methacrylonitrile
Concen: 48.32 ug/l
RT: 5.000 min Scan# 665
Delta R.T. -0.005 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 41 Resp: 44080

Ion	Ratio	Lower	Upper
41	100		
39	59.7	42.5	63.7
67	66.4	65.0	97.6
52	31.4	25.3	37.9

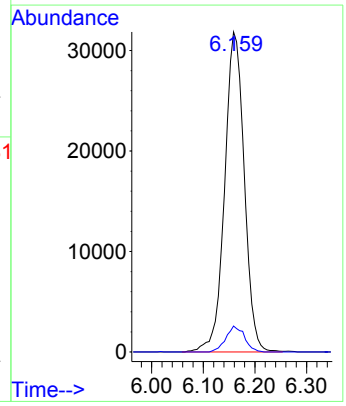




#42
1,2-Dichloroethane
Concen: 50.20 ug/l
RT: 6.159 min Scan# 862
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

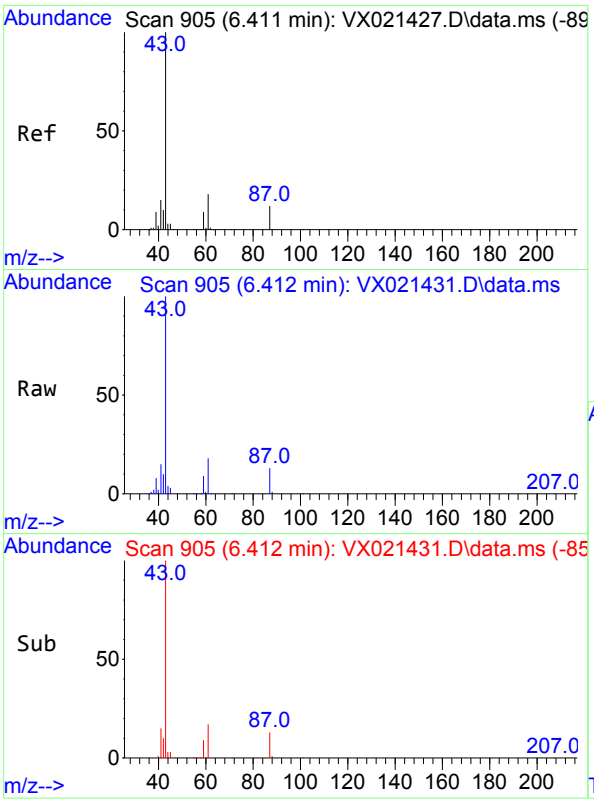
Tgt Ion: 62 Resp: 84072

Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

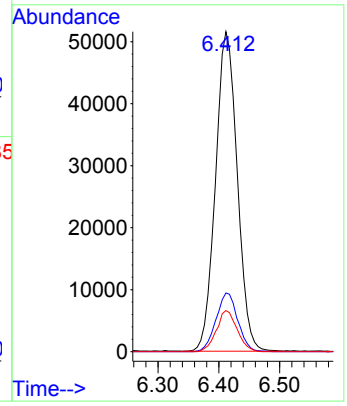
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

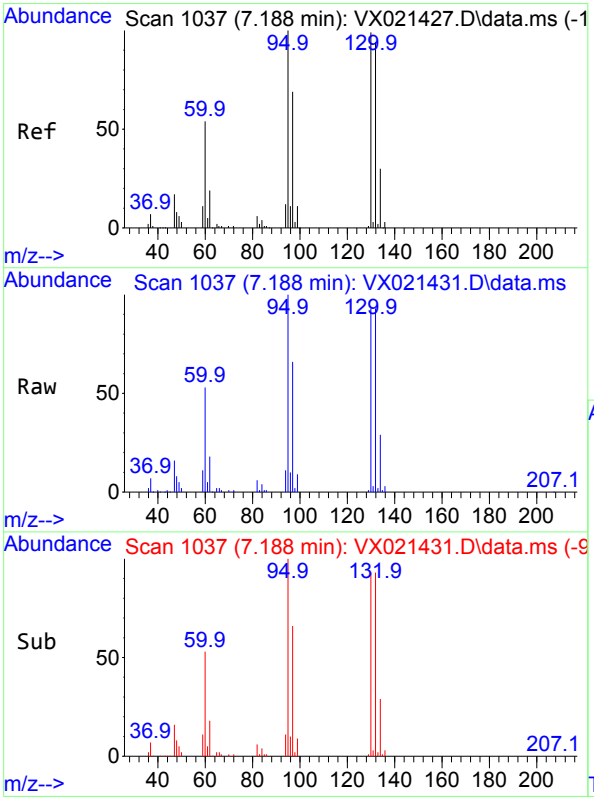


#43
Isopropyl Acetate
Concen: 49.99 ug/l
RT: 6.412 min Scan# 905
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 43 Resp: 127670

Ion	Ratio	Lower	Upper
43	100		
61	18.4	18.2	27.4
87	12.2	12.5	18.7#

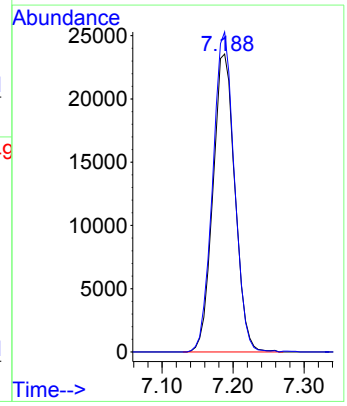




#44
Trichloroethene
Concen: 49.66 ug/l
RT: 7.188 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

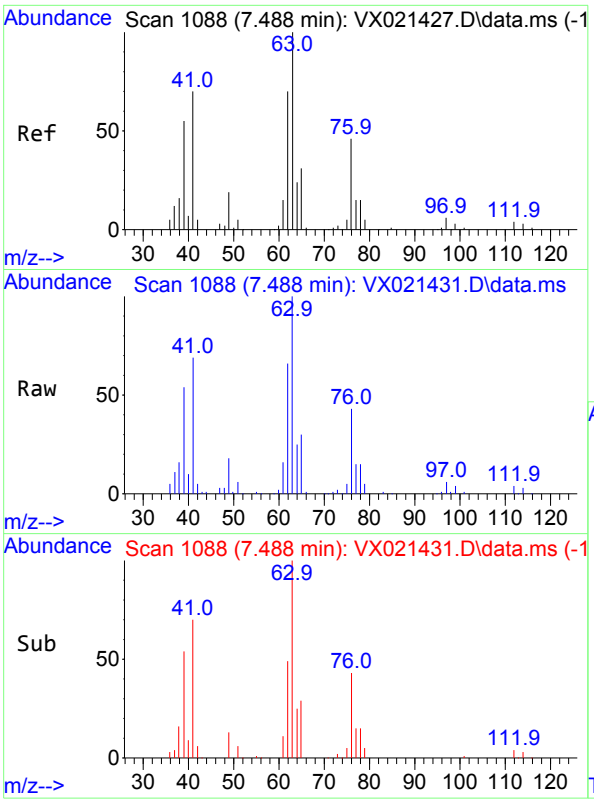
Tgt Ion:130 Resp: 50616

Ion	Ratio	Lower	Upper
130	100		
95	107.4	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

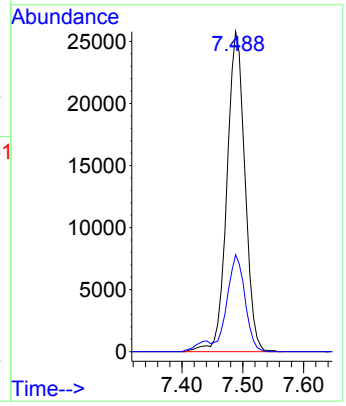
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

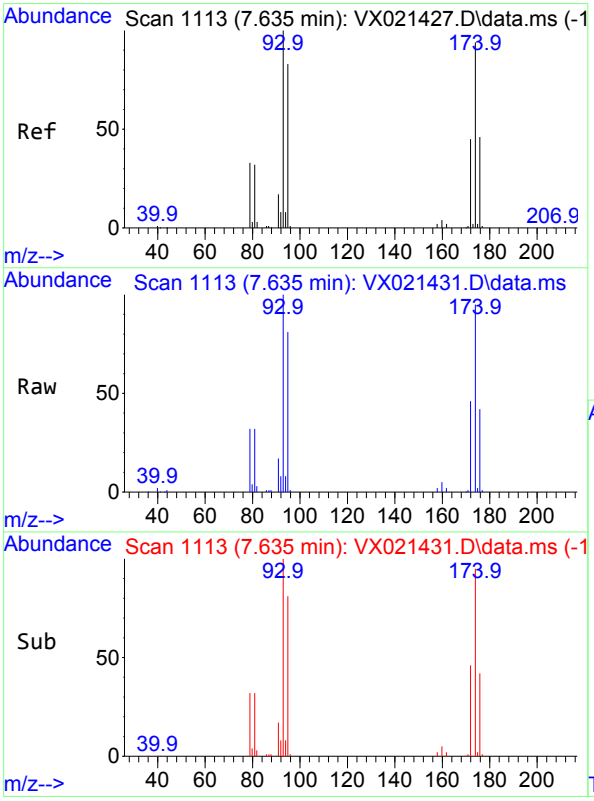


#45
1,2-Dichloropropane
Concen: 50.67 ug/l
RT: 7.488 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 63 Resp: 53017

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.7	38.5

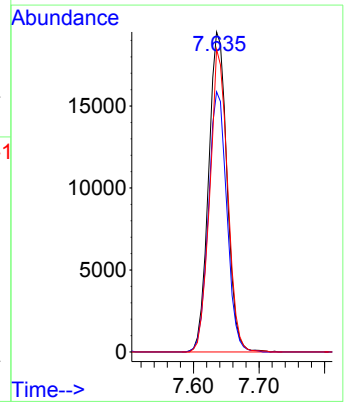




#46
Dibromomethane
Concen: 50.08 ug/l
RT: 7.635 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

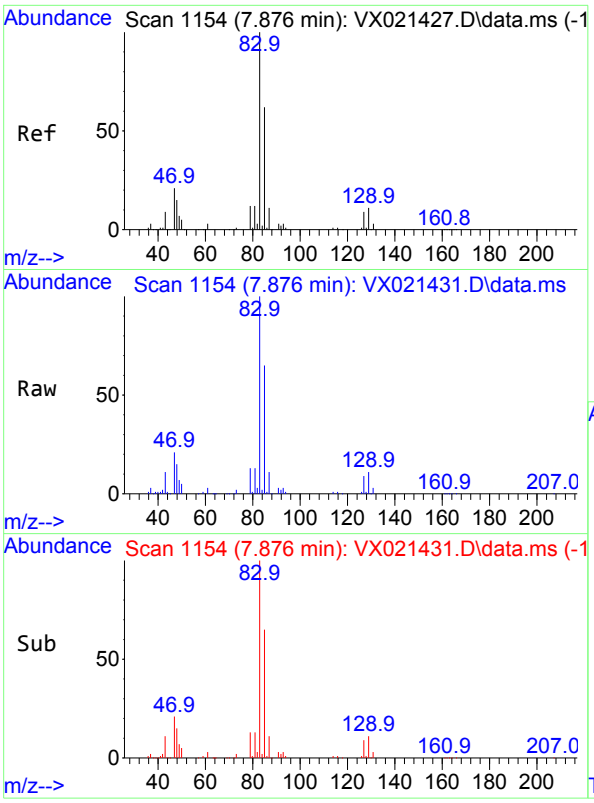
Tgt Ion: 93 Resp: 38191

Ion	Ratio	Lower	Upper
93	100		
95	81.2	66.8	100.2
174	91.2	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

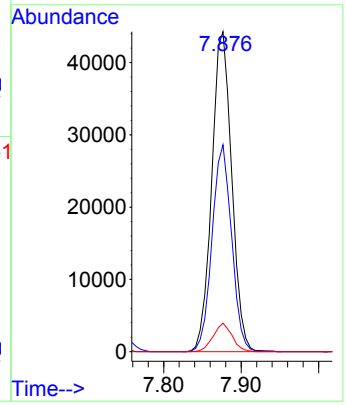
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

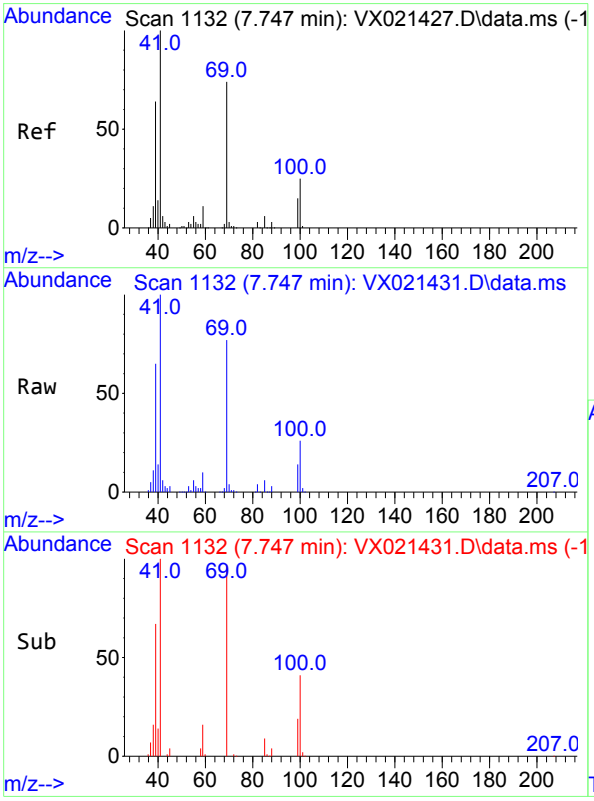


#47
Bromodichloromethane
Concen: 51.05 ug/l
RT: 7.876 min Scan# 1154
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 83 Resp: 79237

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.4	77.0
127	8.9	6.8	10.2

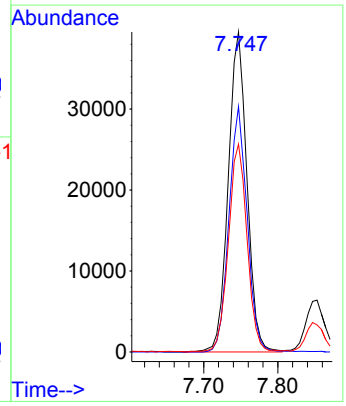




#48
Methyl methacrylate
Concen: 50.72 ug/l
RT: 7.747 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

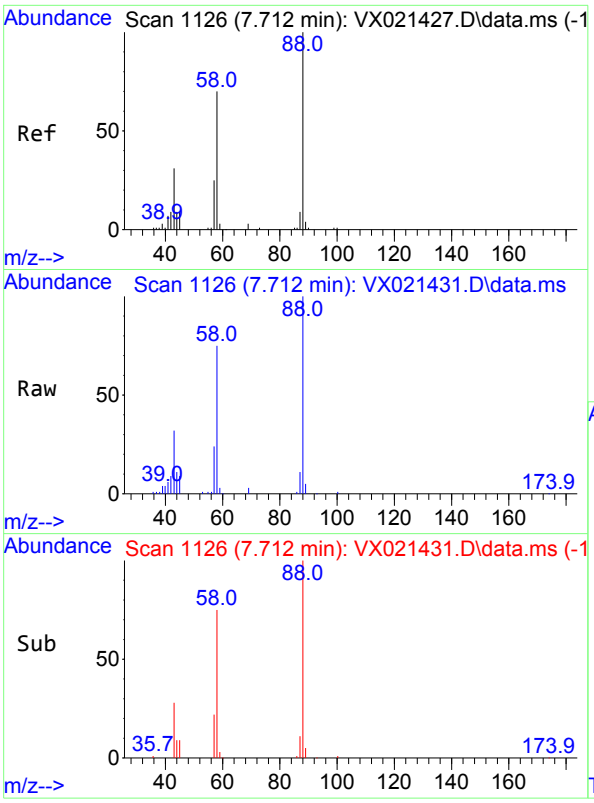
Tgt Ion: 41 Resp: 69096

Ion	Ratio	Lower	Upper
41	100		
69	74.8	76.0	114.0#
39	65.1	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

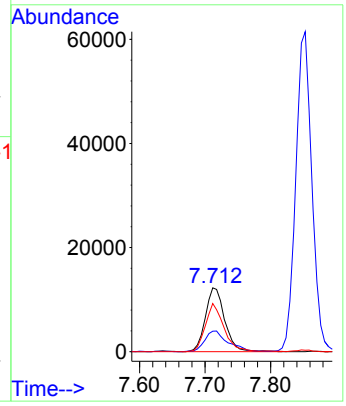
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

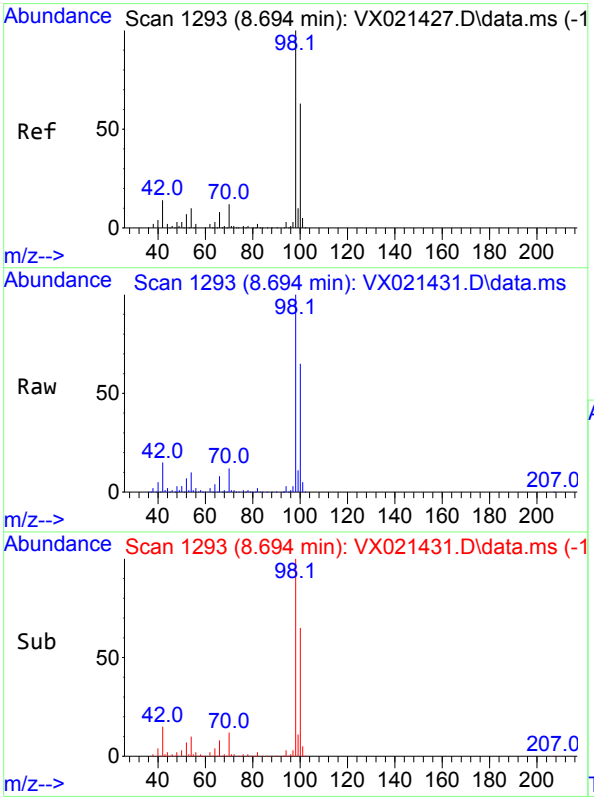


#49
1,4-Dioxane
Concen: 1025.81 ug/l
RT: 7.712 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 88 Resp: 25020

Ion	Ratio	Lower	Upper
88	100		
43	39.6	23.2	34.8#
58	72.5	55.0	82.4

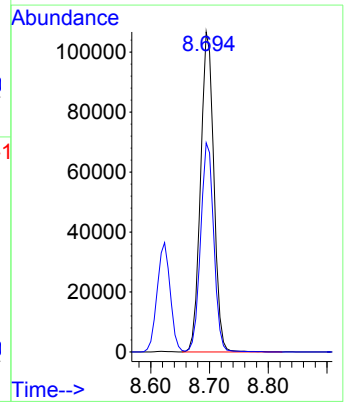




#50
Toluene-d8
Concen: 47.56 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

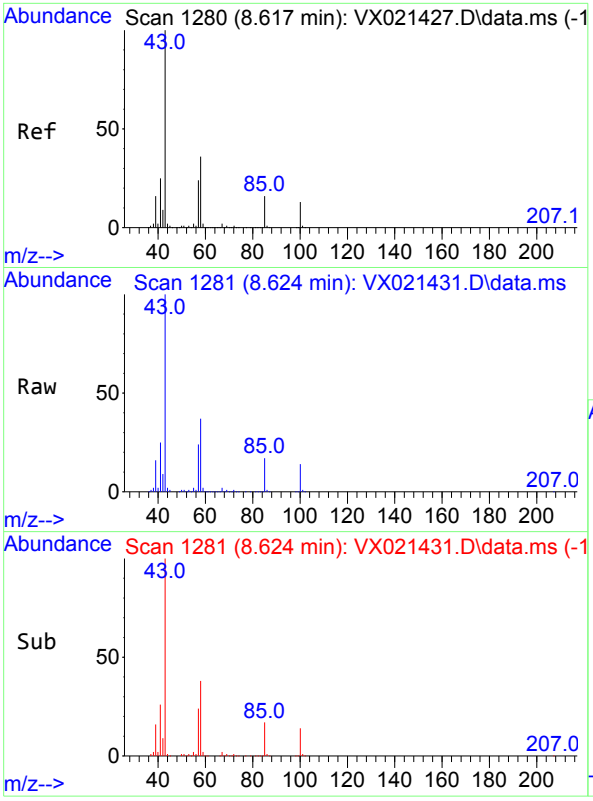
Tgt Ion: 98 Resp: 167144

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

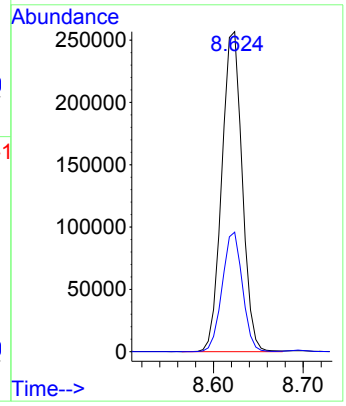
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

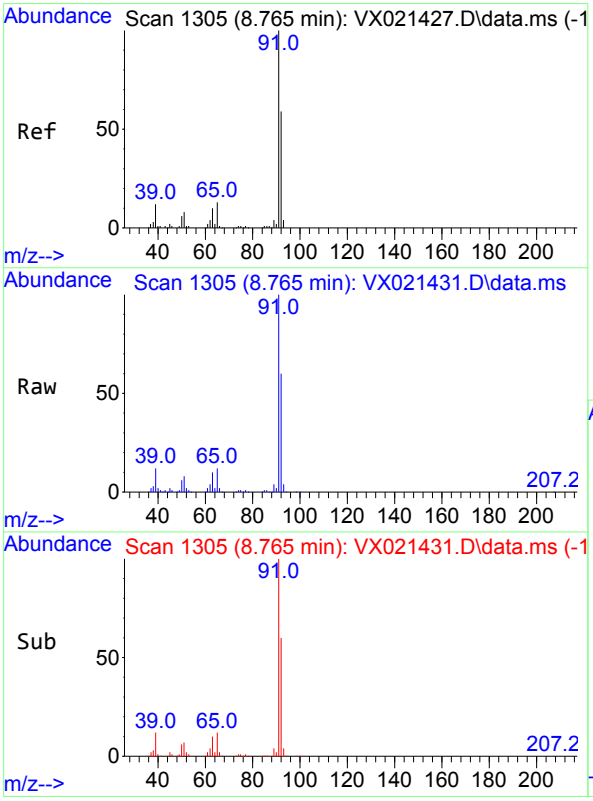


#51
4-Methyl-2-Pentanone
Concen: 258.01 ug/l
RT: 8.624 min Scan# 1281
Delta R.T. 0.007 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 43 Resp: 405305

Ion	Ratio	Lower	Upper
43	100		
58	37.0	35.4	53.0

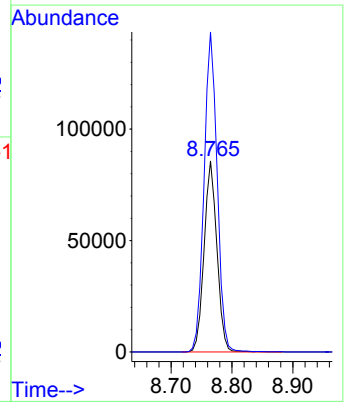




#52
Toluene
Concen: 52.62 ug/l
RT: 8.765 min Scan# 1305
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

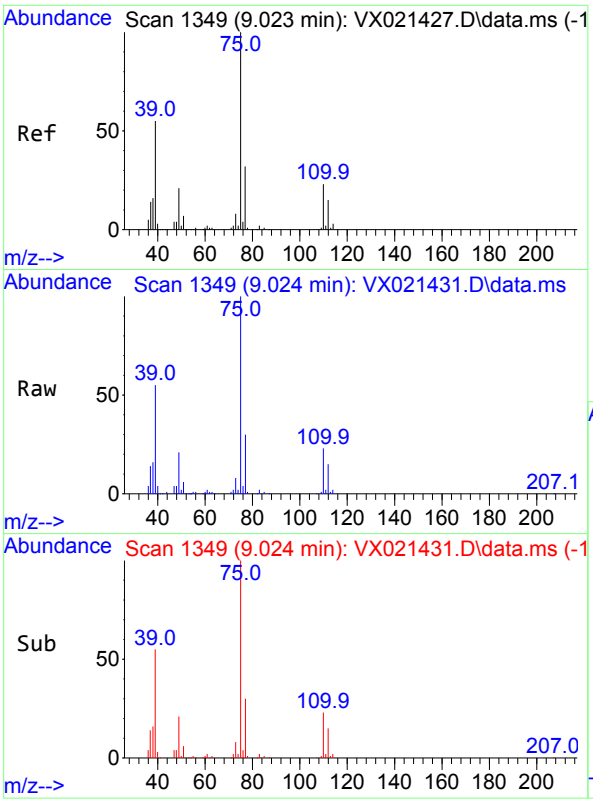
Tgt Ion: 92 Resp: 125547

Ion	Ratio	Lower	Upper
92	100		
91	170.9	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

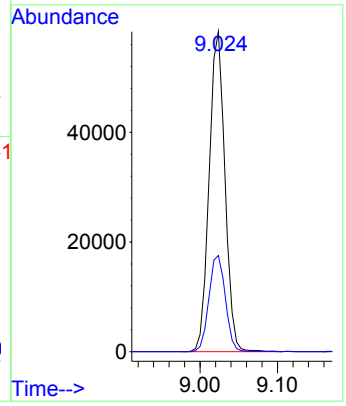
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

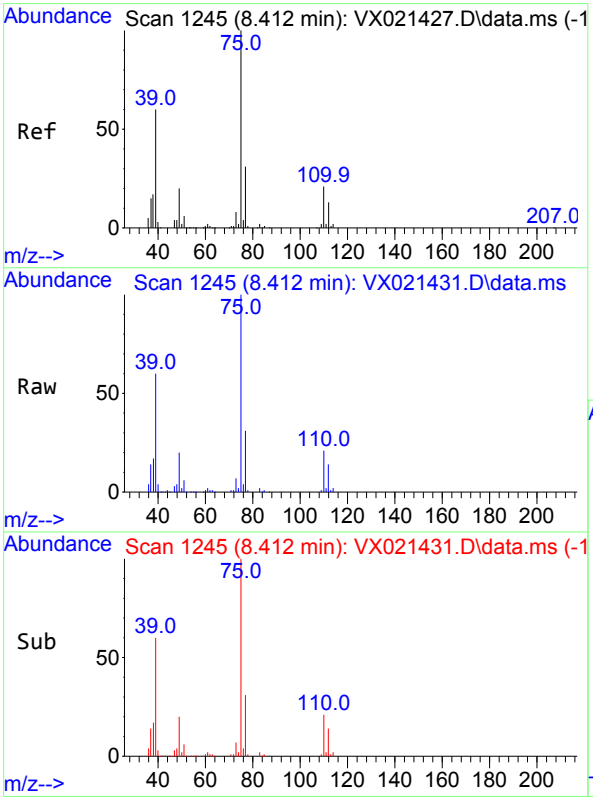


#53
t-1,3-Dichloropropene
Concen: 52.65 ug/l
RT: 9.024 min Scan# 1349
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 75 Resp: 82519

Ion	Ratio	Lower	Upper
75	100		
77	30.1	24.9	37.3

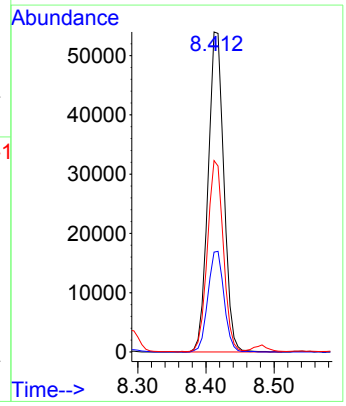




#54
cis-1,3-Dichloropropene
Concen: 52.12 ug/l
RT: 8.412 min Scan# 1245
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

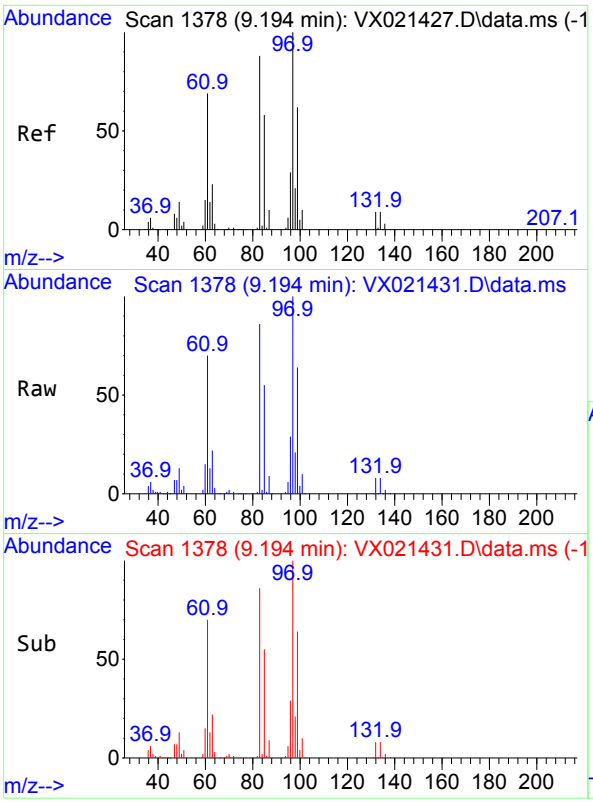
Tgt Ion: 75 Resp: 86927

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.7	38.5
39	59.6	35.1	52.7#



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

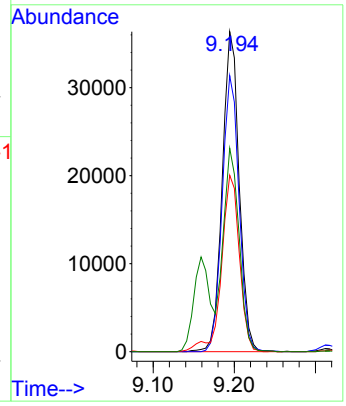
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

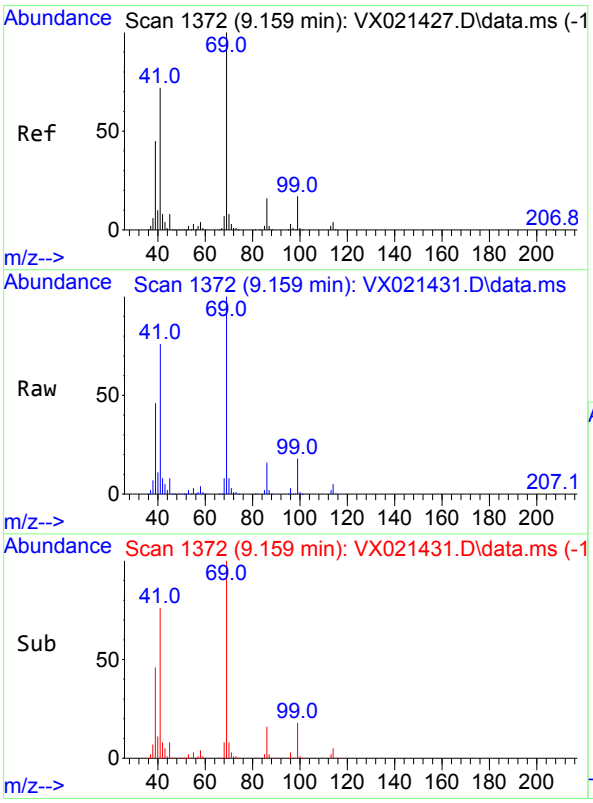


#55
1,1,2-Trichloroethane
Concen: 52.27 ug/l
RT: 9.194 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 97 Resp: 52639

Ion	Ratio	Lower	Upper
97	100		
83	86.2	69.3	103.9
85	55.2	44.3	66.5
99	63.6	50.3	75.5

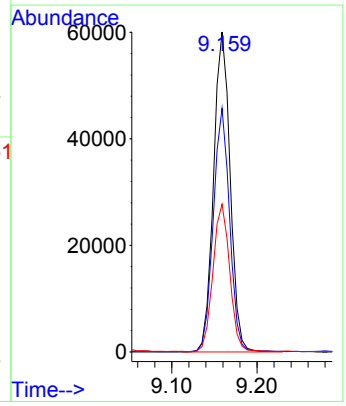




#56
Ethyl methacrylate
Concen: 47.91 ug/l
RT: 9.159 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

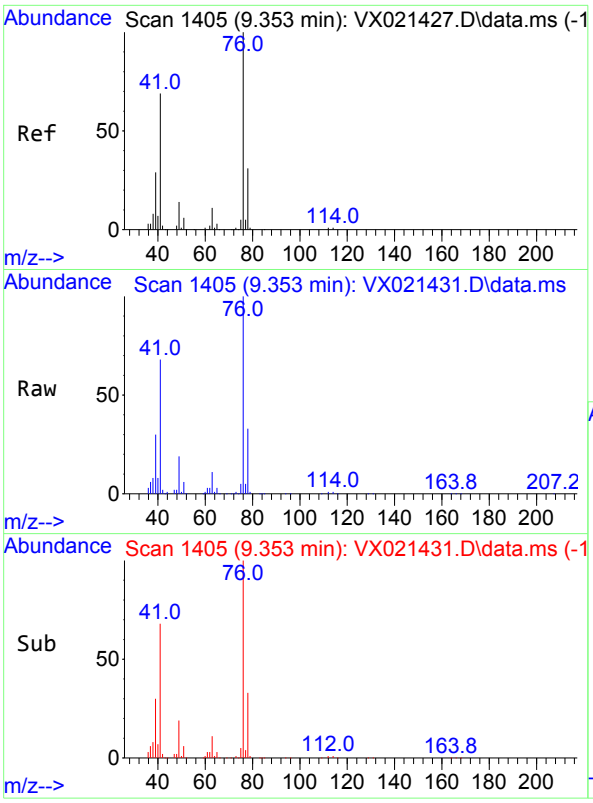
Tgt Ion: 69 Resp: 81341

Ion	Ratio	Lower	Upper
69	100		
41	74.7	46.8	70.2#
39	46.5	24.7	37.1#



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

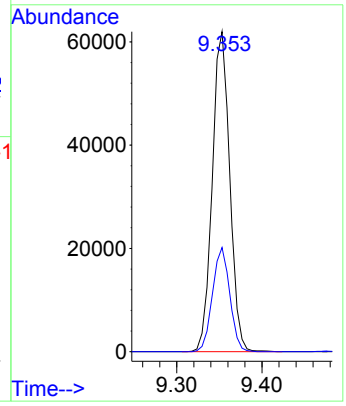
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

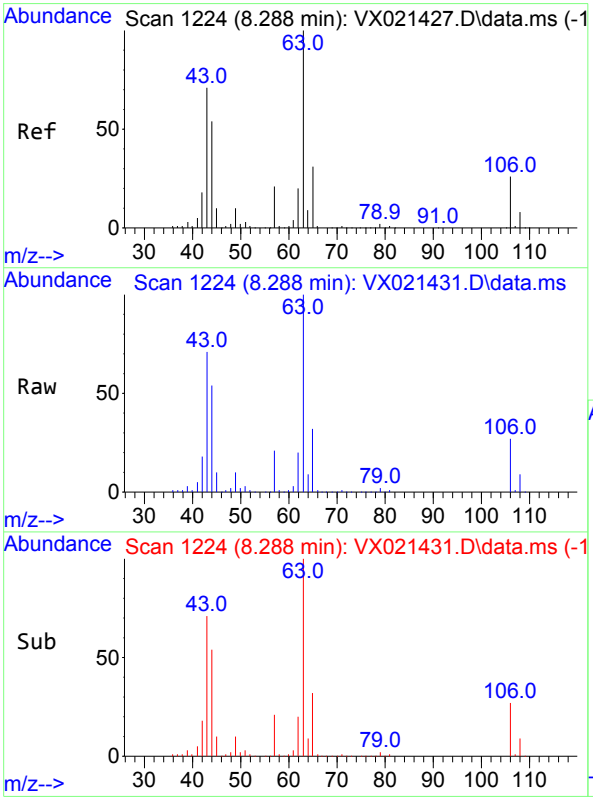


#57
1,3-Dichloropropane
Concen: 51.25 ug/l
RT: 9.353 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 76 Resp: 88319

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.2

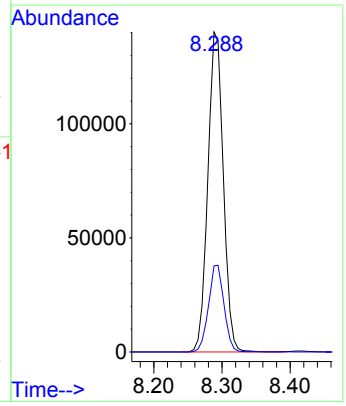




#58
2-Chloroethyl Vinyl ether
Concen: 260.72 ug/l
RT: 8.288 min Scan# 1224
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

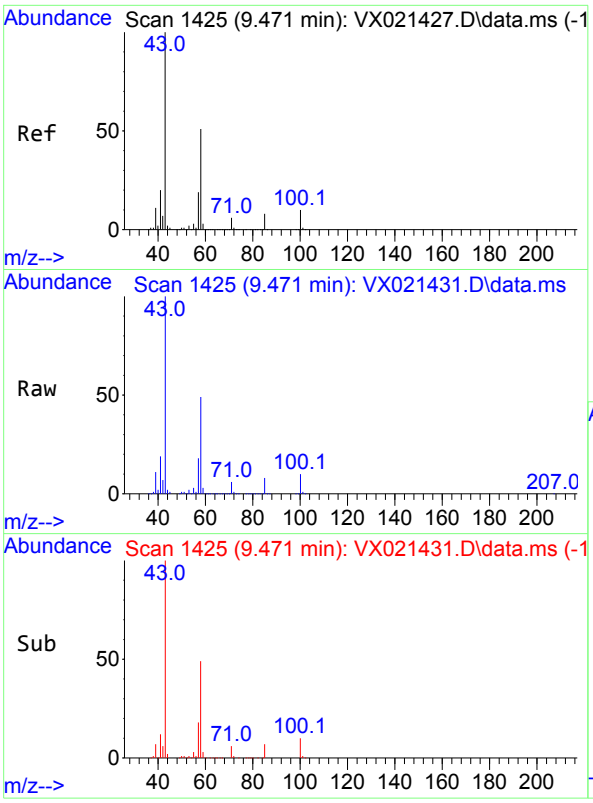
Tgt Ion: 63 Resp: 221880

Ion	Ratio	Lower	Upper
63	100		
106	27.0	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

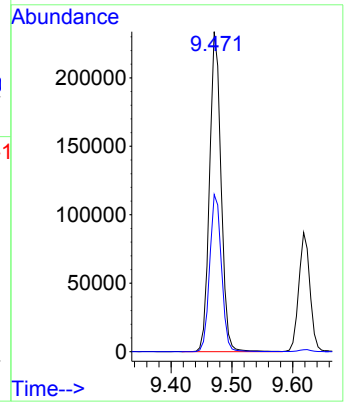
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

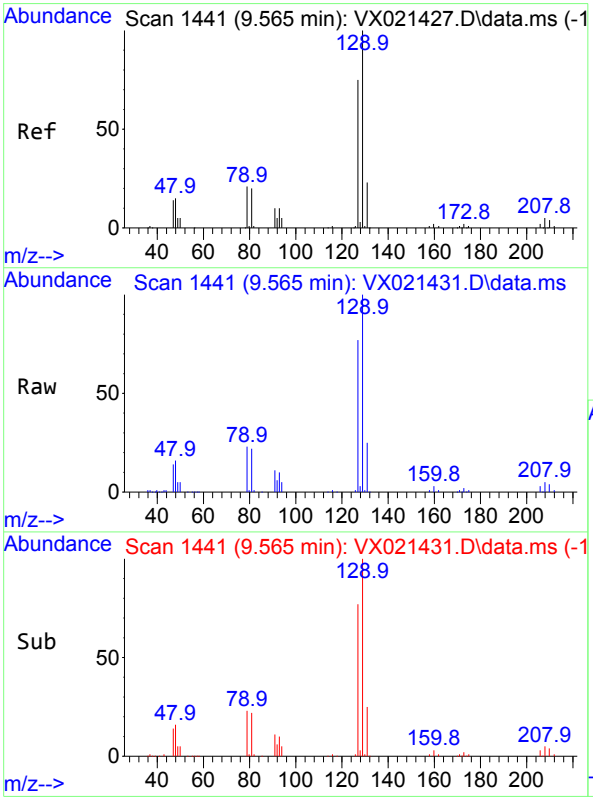


#59
2-Hexanone
Concen: 260.39 ug/l
RT: 9.471 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 43 Resp: 307140

Ion	Ratio	Lower	Upper
43	100		
58	50.3	30.9	92.8

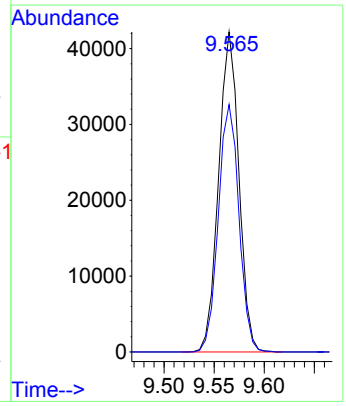




#60
Dibromochloromethane
Concen: 52.49 ug/l
RT: 9.565 min Scan# 1441
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

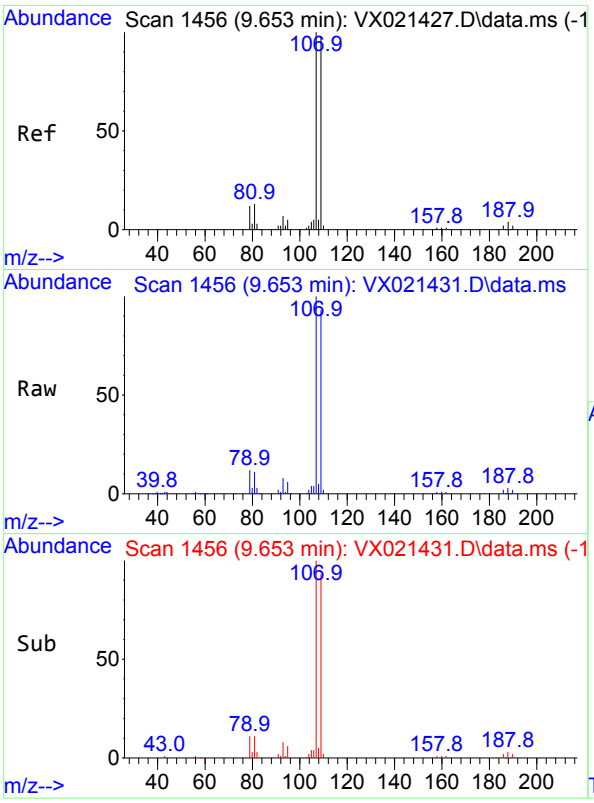
Tgt Ion:129 Resp: 59207

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

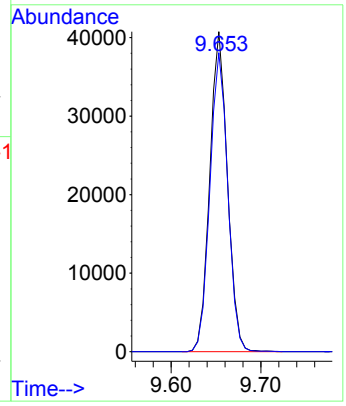
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

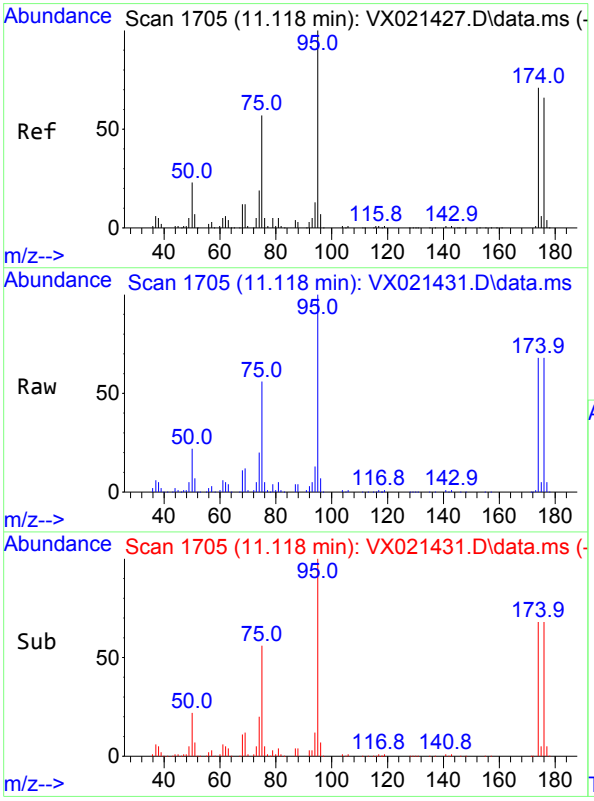


#61
1,2-Dibromoethane
Concen: 51.44 ug/l
RT: 9.653 min Scan# 1456
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:107 Resp: 55650

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.8	113.6

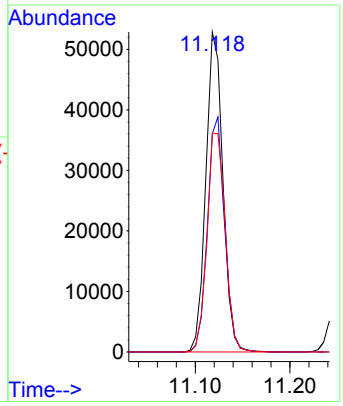




#62
4-Bromofluorobenzene
Concen: 48.40 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

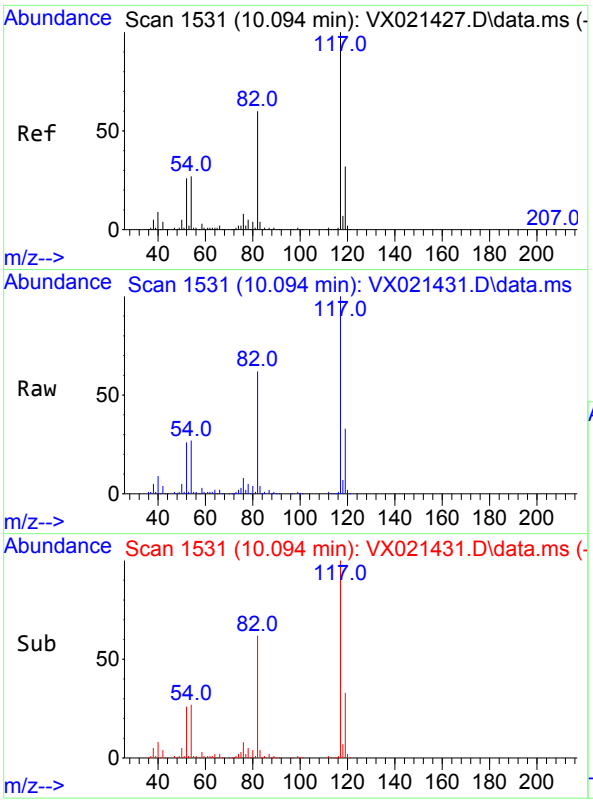
Tgt Ion: 95 Resp: 66126

Ion	Ratio	Lower	Upper
95	100		
174	73.8	0.0	154.6
176	73.1	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

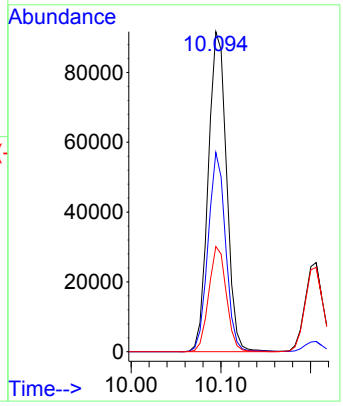
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

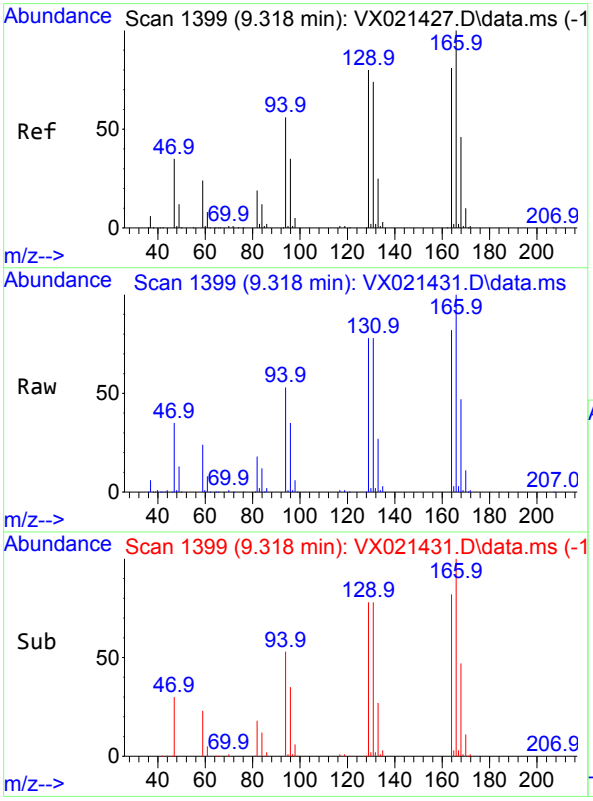


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:117 Resp: 129853

Ion	Ratio	Lower	Upper
117	100		
82	62.2	47.4	71.2
119	32.8	26.6	39.8

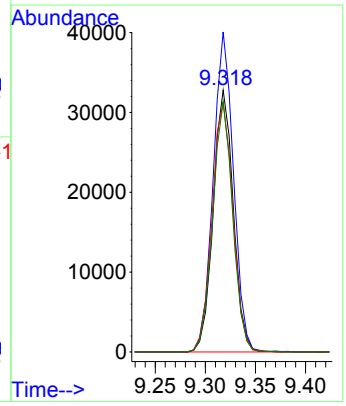




#64
Tetrachloroethene
Concen: 52.61 ug/l
RT: 9.318 min Scan# 1399
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

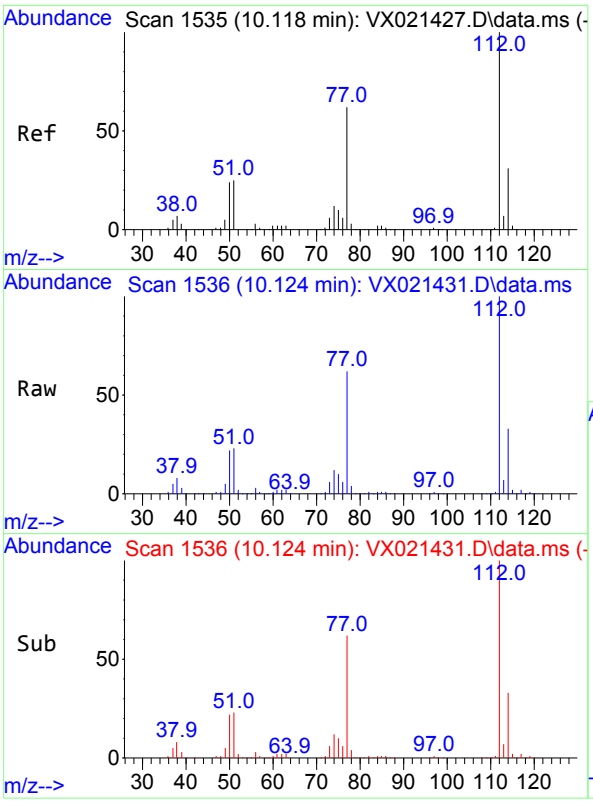
Tgt Ion:164 Resp: 45762

Ion	Ratio	Lower	Upper
164	100		
166	122.3	103.4	155.2
129	95.4	70.8	106.2
131	95.5	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

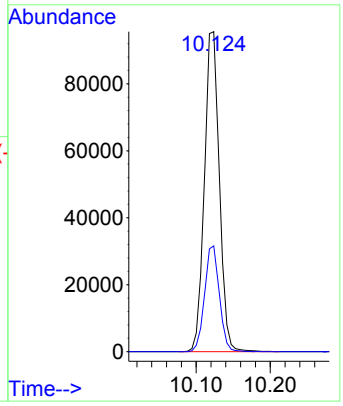
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

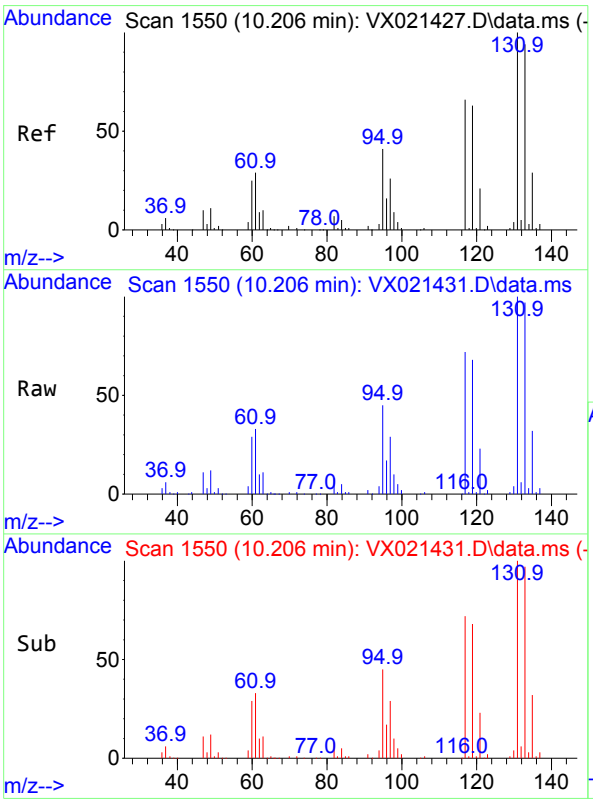


#65
Chlorobenzene
Concen: 51.40 ug/l
RT: 10.124 min Scan# 1536
Delta R.T. 0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:112 Resp: 134081

Ion	Ratio	Lower	Upper
112	100		
114	33.1	25.8	38.6

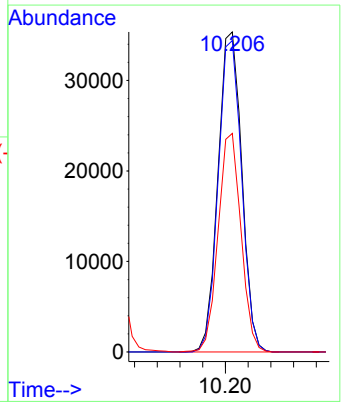




#66
1,1,1,2-Tetrachloroethane
Concen: 51.45 ug/l
RT: 10.206 min Scan# 1550
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

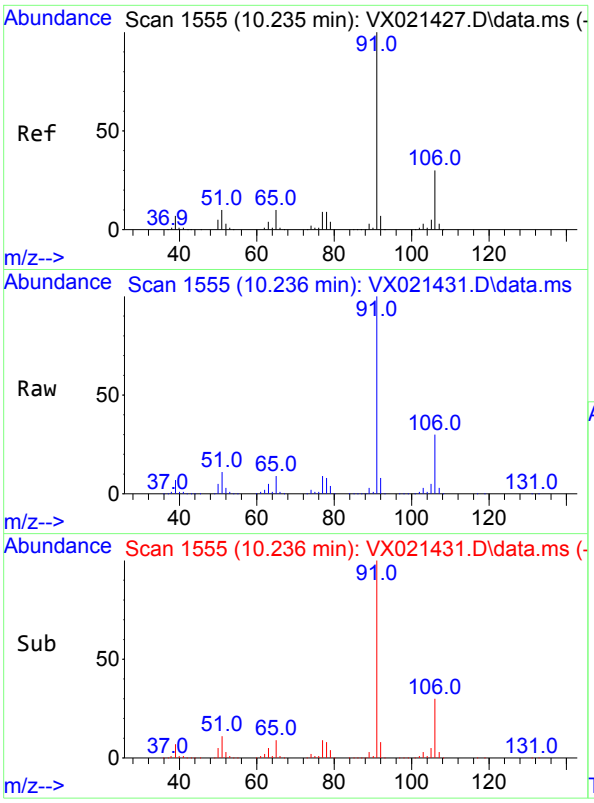
Tgt Ion:131 Resp: 51433

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.7	143.1
119	65.7	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

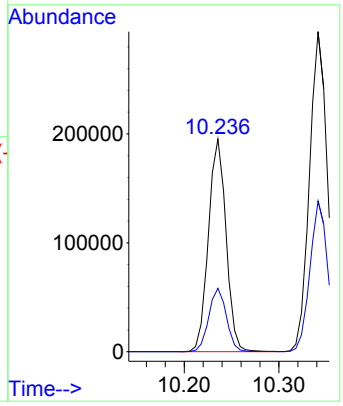
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

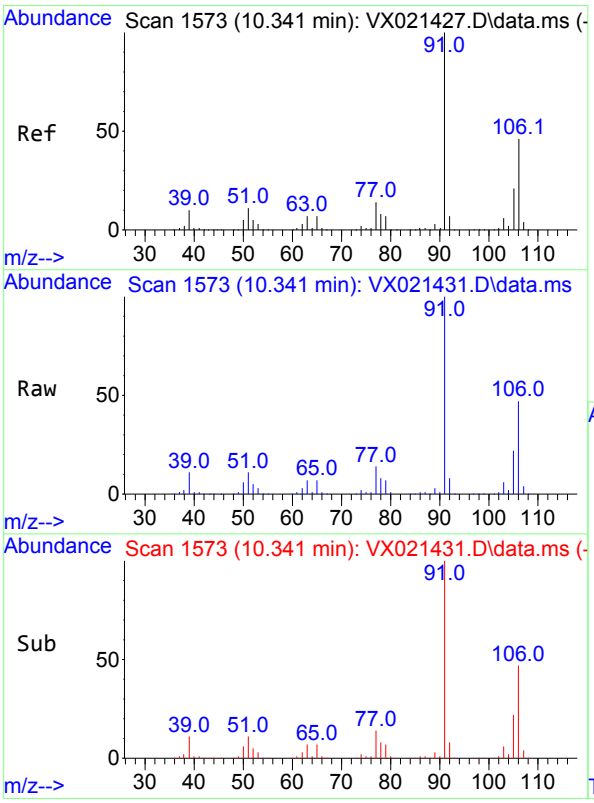


#67
Ethyl Benzene
Concen: 53.19 ug/l
RT: 10.236 min Scan# 1555
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 91 Resp: 252898

Ion	Ratio	Lower	Upper
91	100		
106	29.8	24.6	37.0

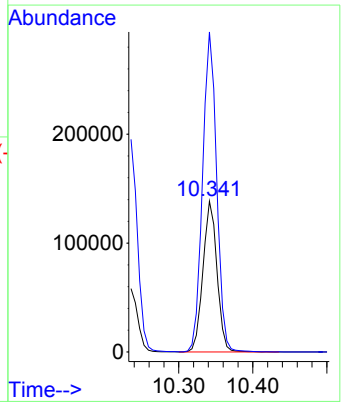




#68
m/p-Xylenes
Concen: 107.58 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

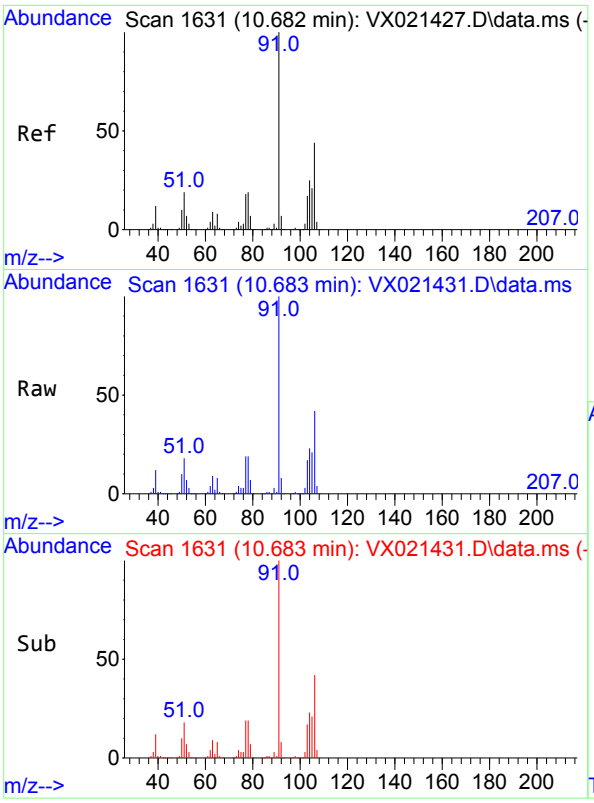
Tgt Ion:106 Resp: 182238

Ion	Ratio	Lower	Upper
106	100		
91	213.4	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

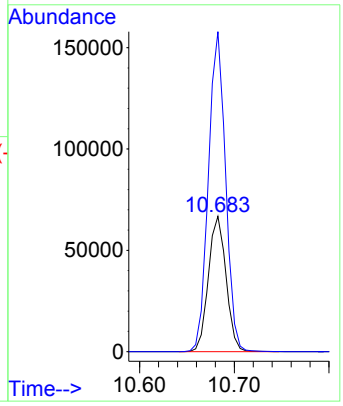
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

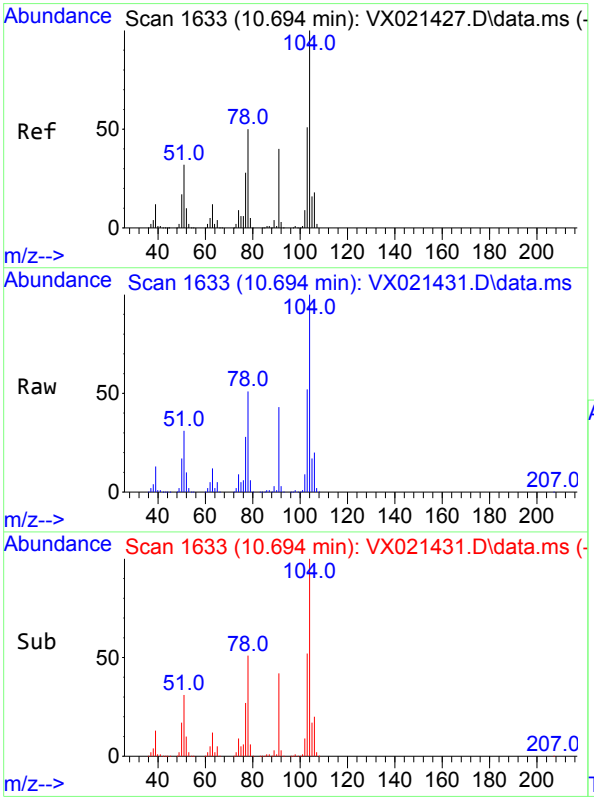


#69
o-Xylene
Concen: 52.83 ug/l
RT: 10.683 min Scan# 1631
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:106 Resp: 86685

Ion	Ratio	Lower	Upper
106	100		
91	229.3	108.1	324.2

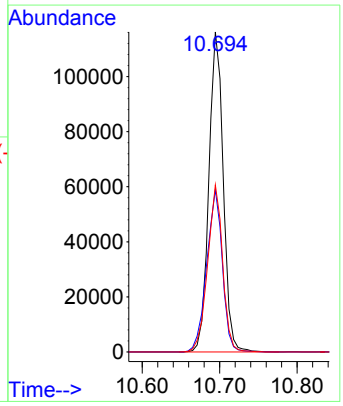




#70
Styrene
Concen: 53.19 ug/l
RT: 10.694 min Scan# 1633
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

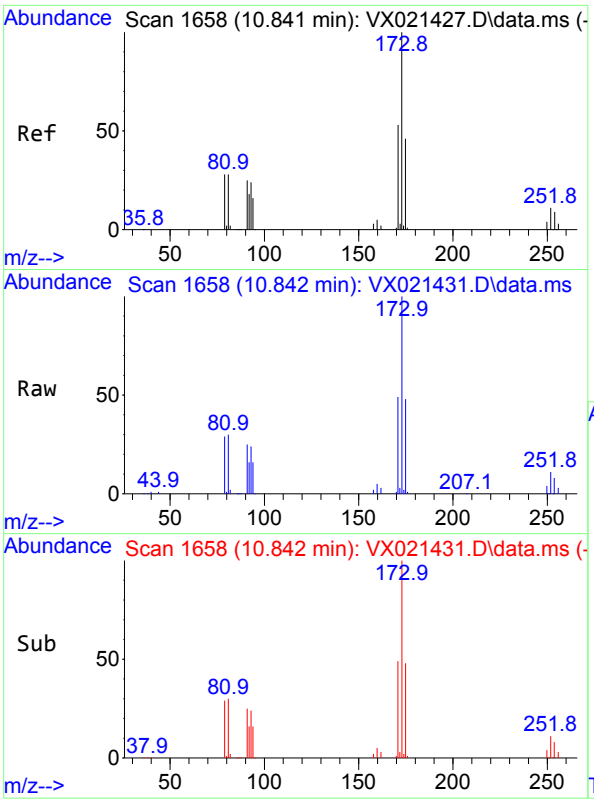
Tgt Ion:104 Resp: 150089

Ion	Ratio	Lower	Upper
104	100		
78	55.2	40.0	60.0
103	54.7	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

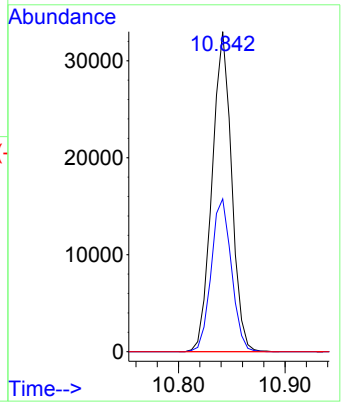
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

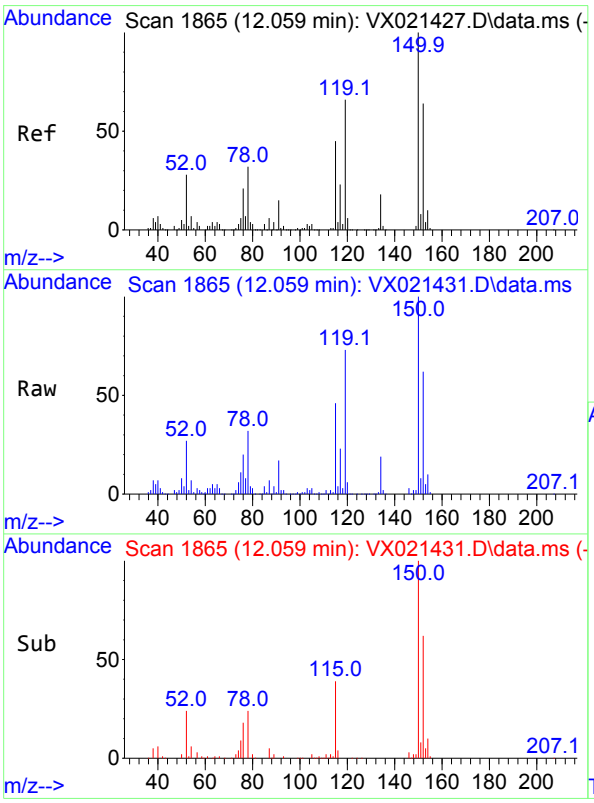


#71
Bromoform
Concen: 51.65 ug/l
RT: 10.842 min Scan# 1658
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:173 Resp: 41954

Ion	Ratio	Lower	Upper
173	100		
175	49.4	23.9	71.8
254	0.0	0.1	0.1#

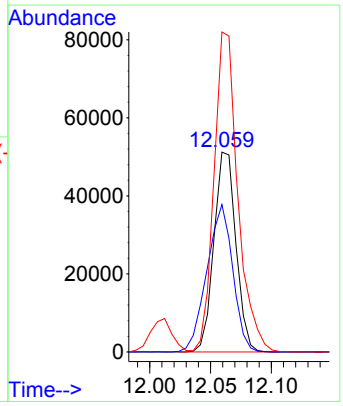




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

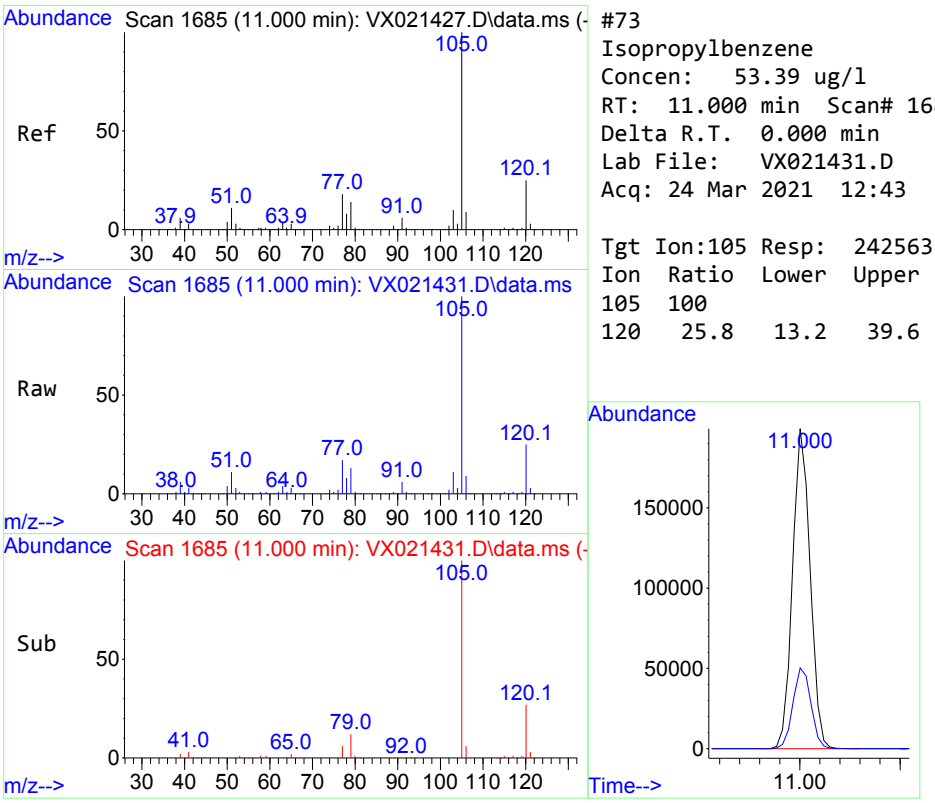
Tgt Ion:152 Resp: 64663

Ion	Ratio	Lower	Upper
152	100		
115	86.4	41.1	123.3
150	173.2	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

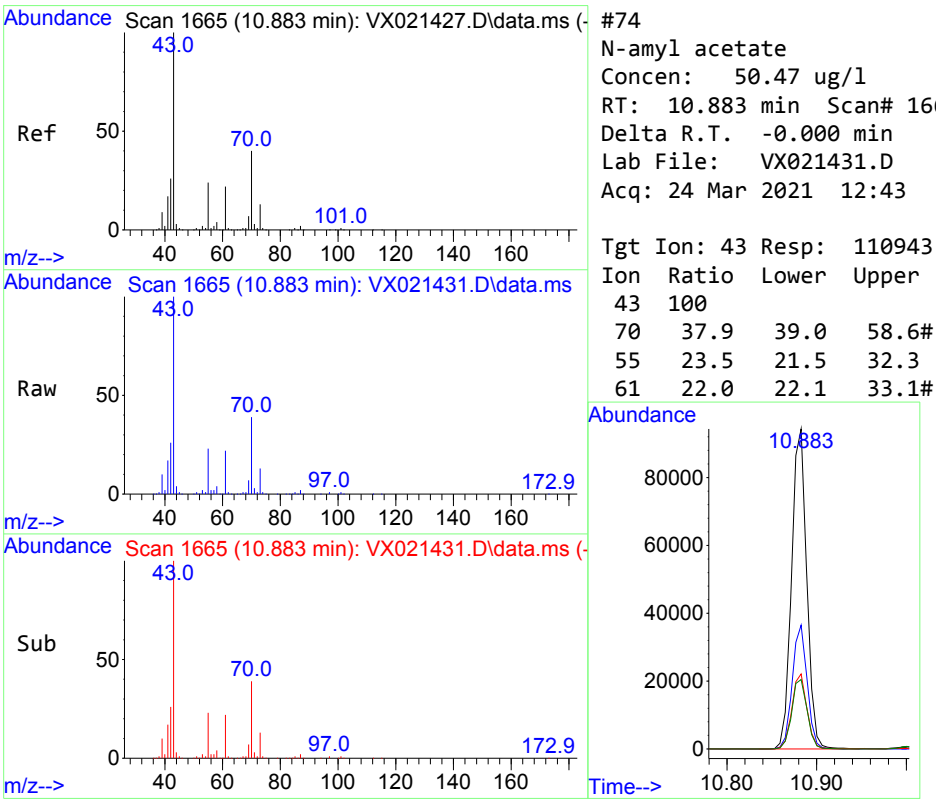
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM



#73
Isopropylbenzene
Concen: 53.39 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:105 Resp: 242563

Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.2	39.6



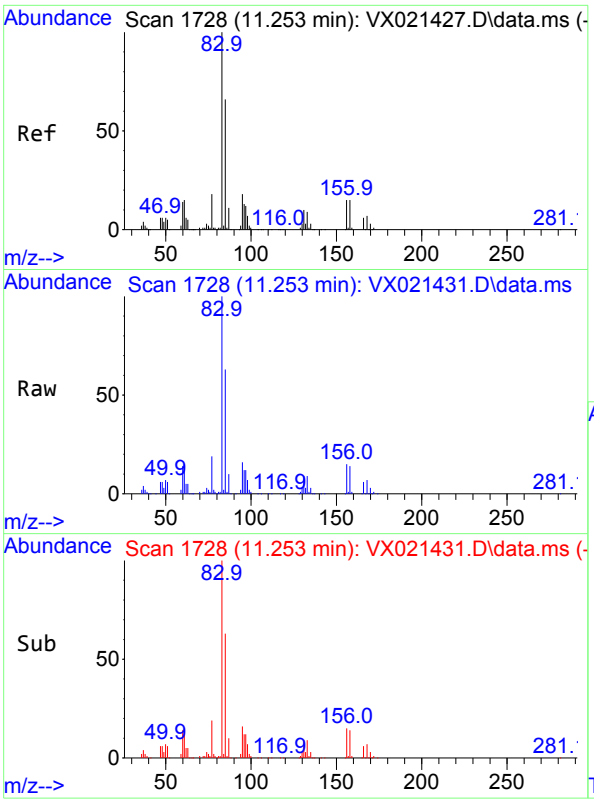
#74
N-amyl acetate
Concen: 50.47 ug/l
RT: 10.883 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 43 Resp: 110943

Ion	Ratio	Lower	Upper
43	100		
70	37.9	39.0	58.6#
55	23.5	21.5	32.3
61	22.0	22.1	33.1#

Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

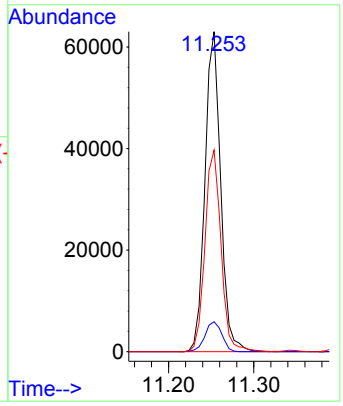
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

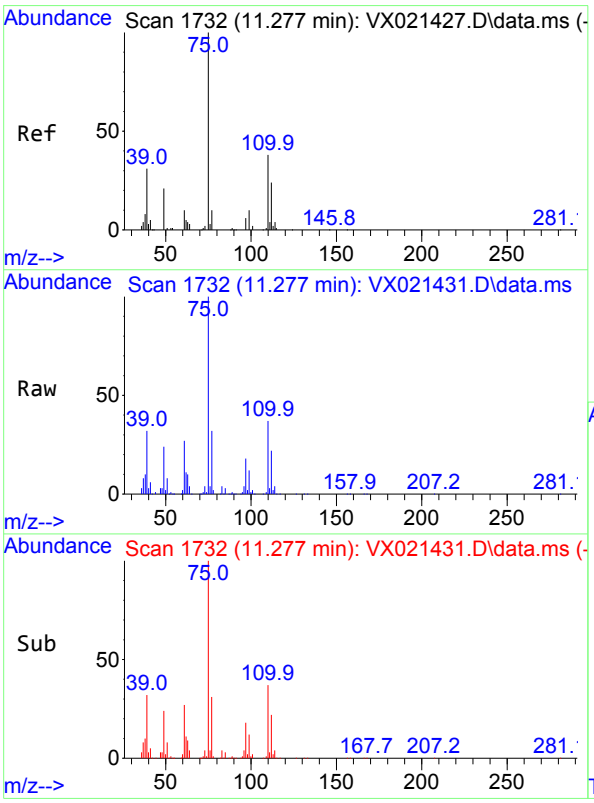


#75
1,1,2,2-Tetrachloroethane
Concen: 50.10 ug/l
RT: 11.253 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 83 Resp: 80423

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.2
85	64.5	31.8	95.4

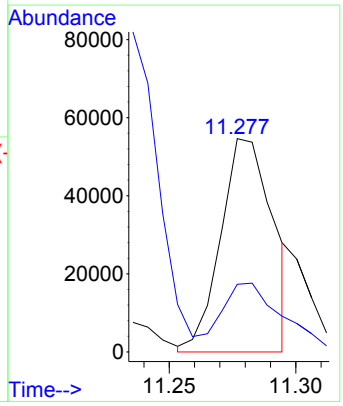




#76
1,2,3-Trichloropropane
Concen: 52.03 ug/l m
RT: 11.277 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

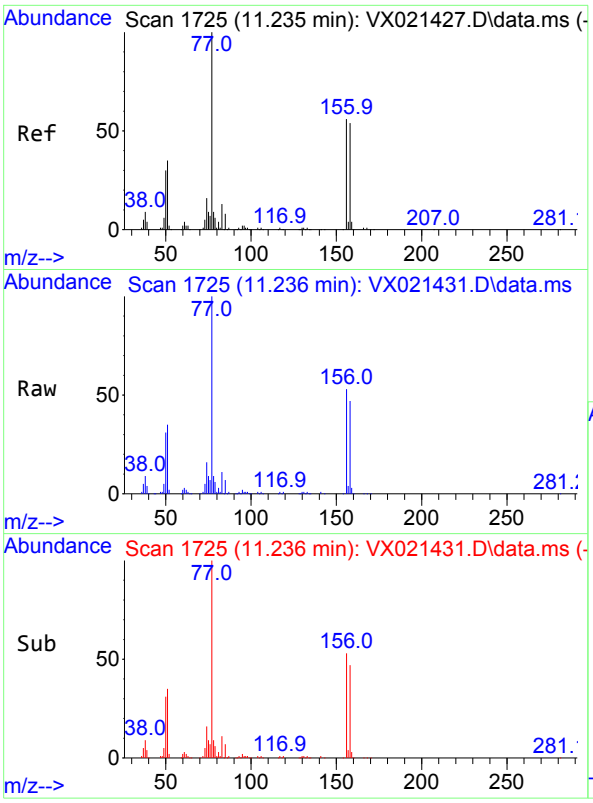
Tgt Ion: 75 Resp: 78320

Ion	Ratio	Lower	Upper
75	100		
77	38.4	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

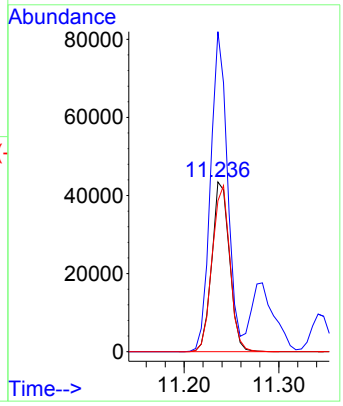
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

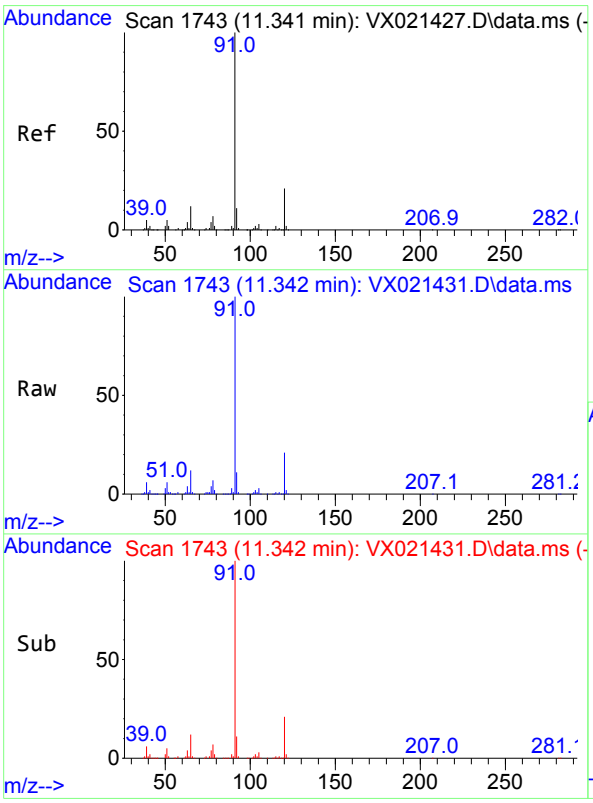


#77
Bromobenzene
Concen: 50.05 ug/l
RT: 11.236 min Scan# 1725
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:156 Resp: 56367

Ion	Ratio	Lower	Upper
156	100		
77	180.1	82.8	248.6
158	98.3	49.1	147.4

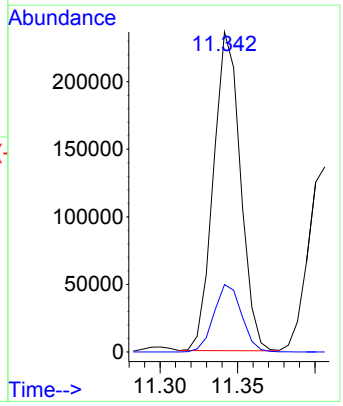




#78
n-propylbenzene
Concen: 53.31 ug/l
RT: 11.342 min Scan# 1743
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

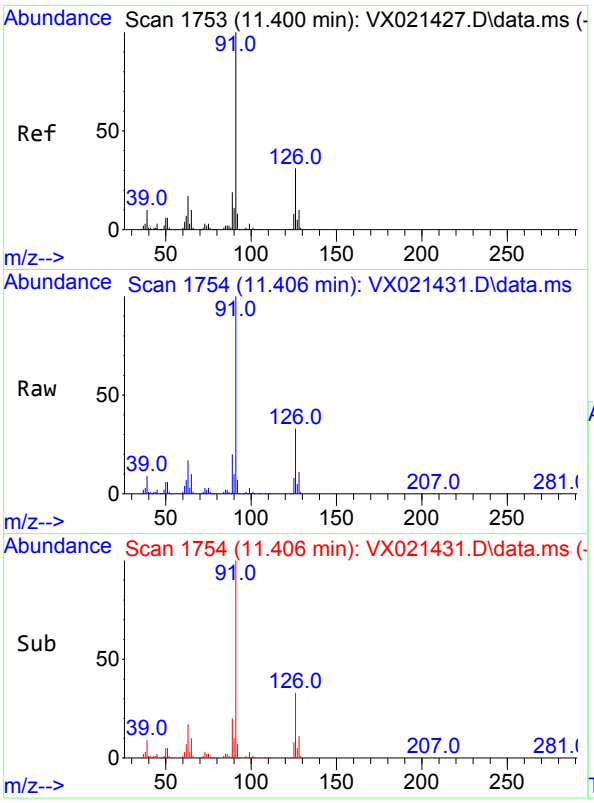
Tgt Ion: 91 Resp: 286011

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

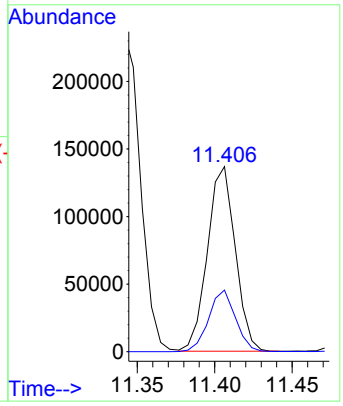
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

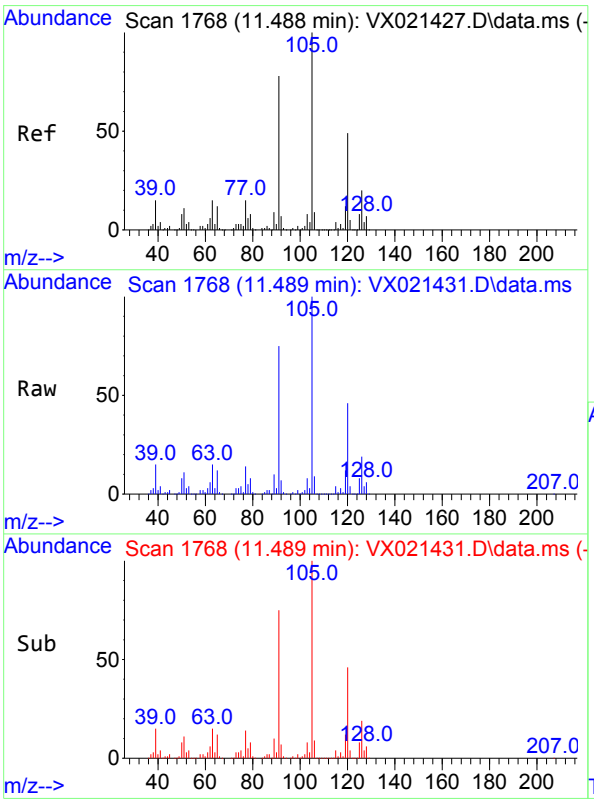


#79
2-Chlorotoluene
Concen: 52.48 ug/l
RT: 11.406 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 91 Resp: 170815

Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.6	49.8

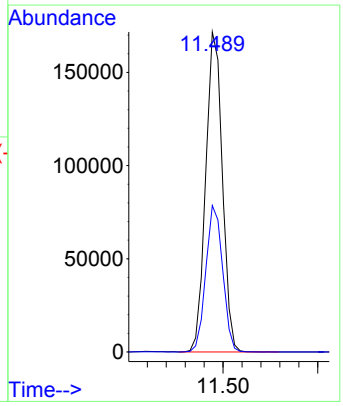




#80
1,3,5-Trimethylbenzene
Concen: 53.91 ug/l
RT: 11.489 min Scan# 1768
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

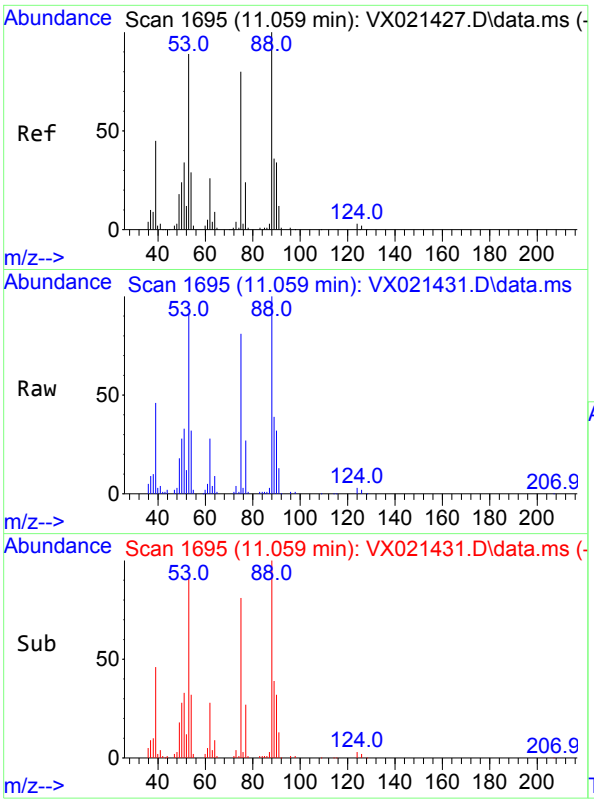
Tgt Ion:105 Resp: 209265

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

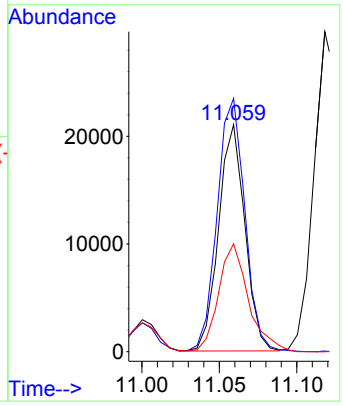
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

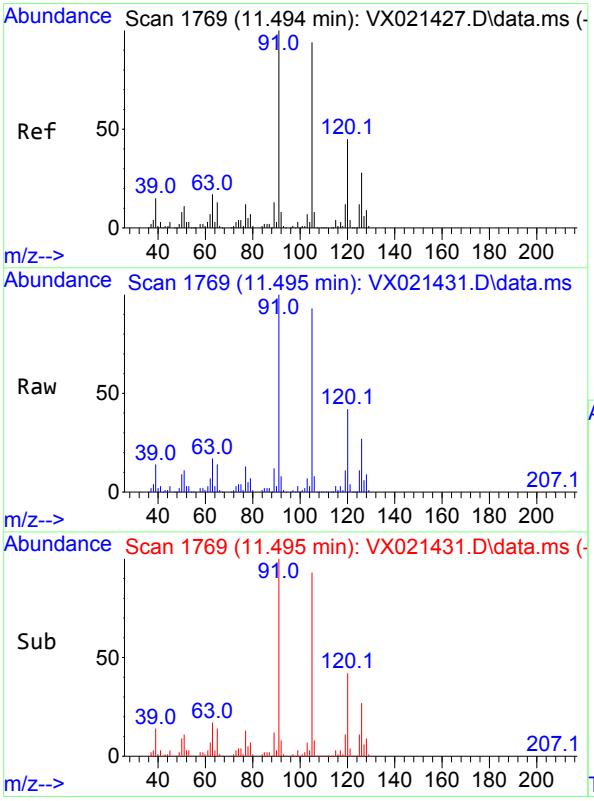


#81
trans-1,4-Dichloro-2-butene
Concen: 50.22 ug/l
RT: 11.059 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 75 Resp: 24820

Ion	Ratio	Lower	Upper
75	100		
53	118.2	74.5	111.7#
89	54.1	37.9	56.9

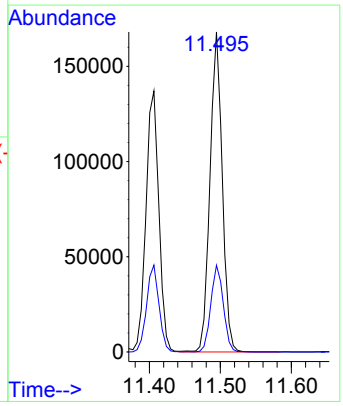




#82
4-Chlorotoluene
Concen: 52.37 ug/l
RT: 11.495 min Scan# 1769
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

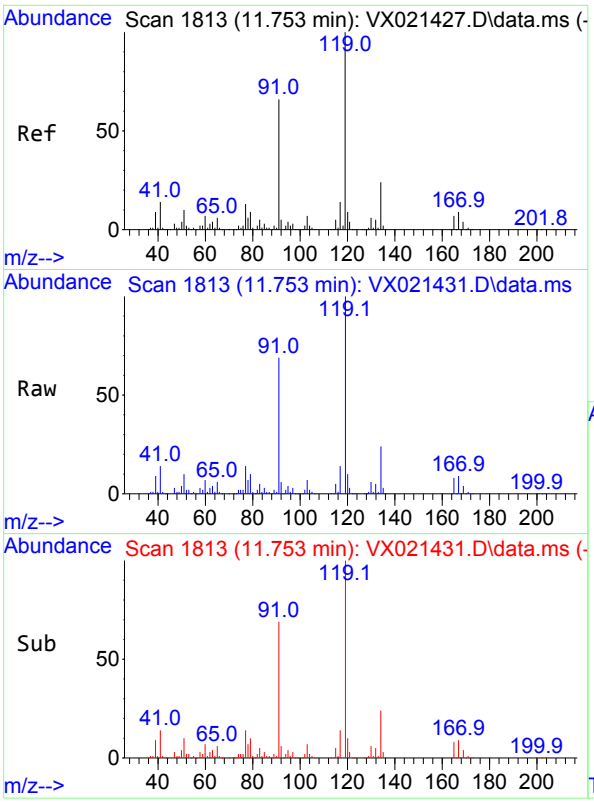
Tgt Ion: 91 Resp: 202393

Ion	Ratio	Lower	Upper
91	100		
126	27.4	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

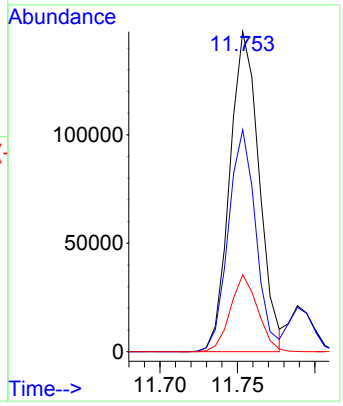
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

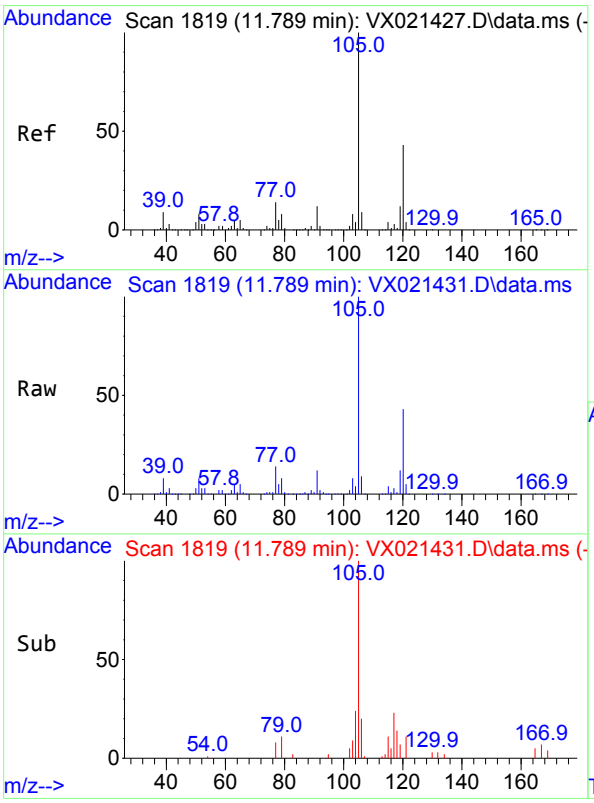


#83
tert-Butylbenzene
Concen: 51.52 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:119 Resp: 194705

Ion	Ratio	Lower	Upper
119	100		
91	65.0	27.9	83.7
134	22.4	11.3	33.9

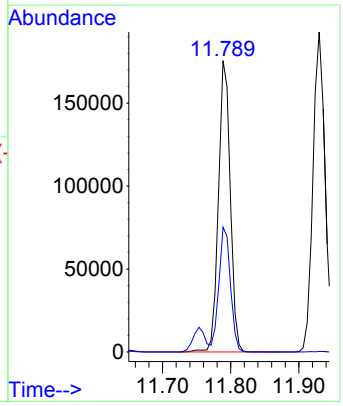




#84
1,2,4-Trimethylbenzene
Concen: 54.02 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

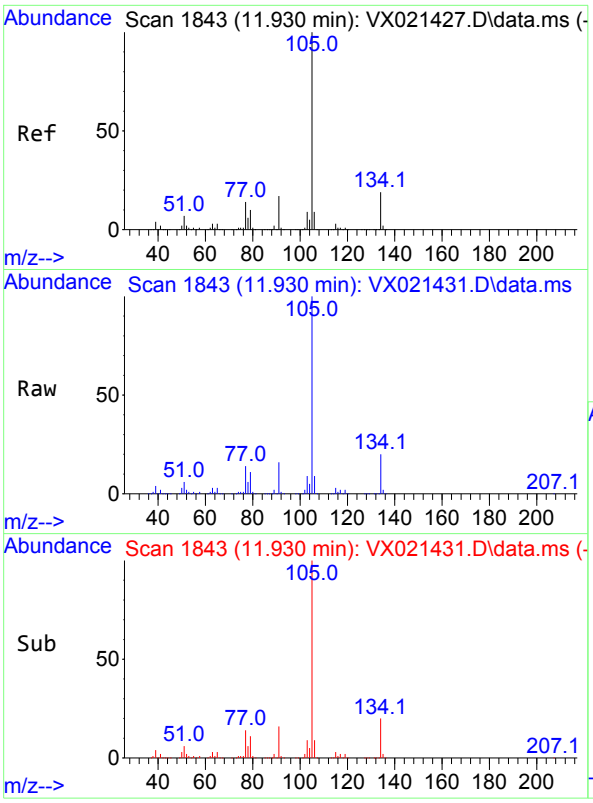
Tgt Ion:105 Resp: 211365

Ion	Ratio	Lower	Upper
105	100		
120	41.9	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

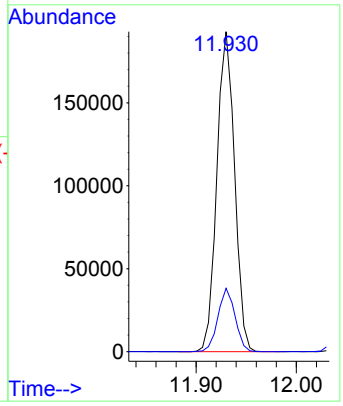
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

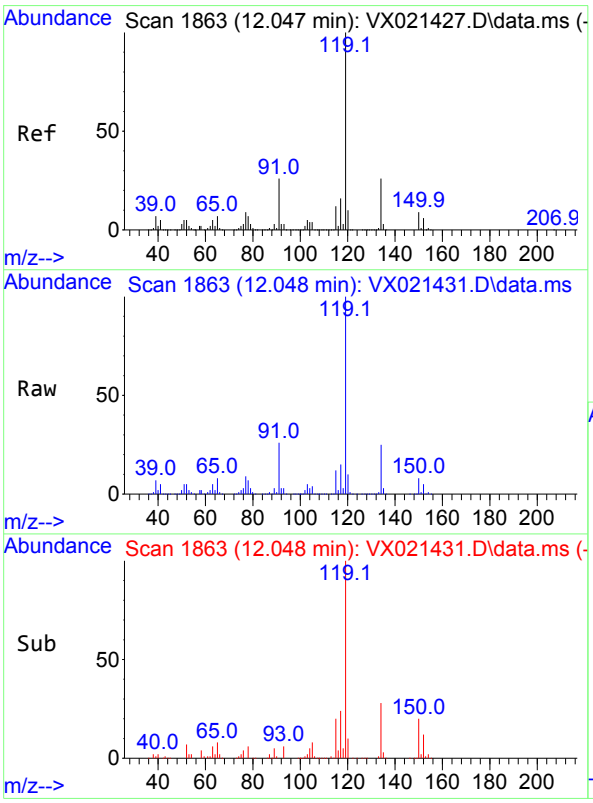


#85
sec-Butylbenzene
Concen: 54.14 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:105 Resp: 236006

Ion	Ratio	Lower	Upper
105	100		
134	19.2	10.0	29.8

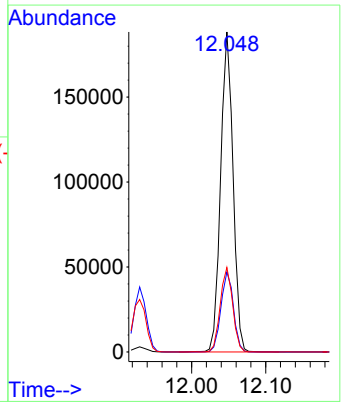




#86
p-Isopropyltoluene
Concen: 55.12 ug/l
RT: 12.048 min Scan# 1863
Delta R.T. 0.001 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

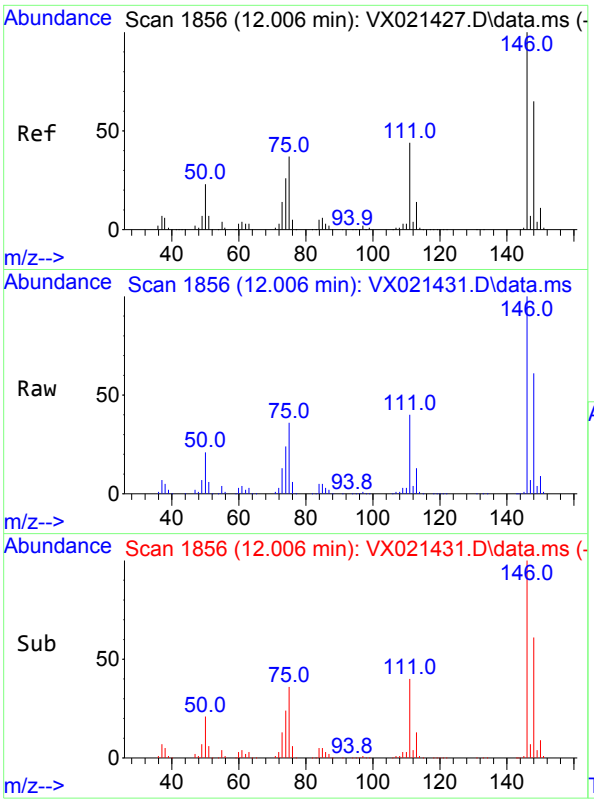
Tgt Ion:119 Resp: 218740

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.9	38.7
91	26.5	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

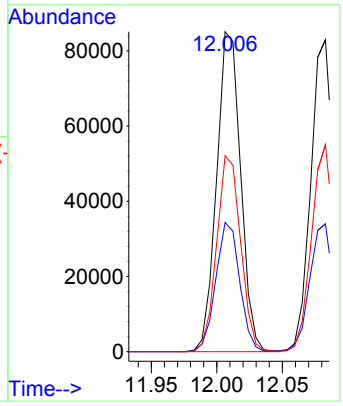
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

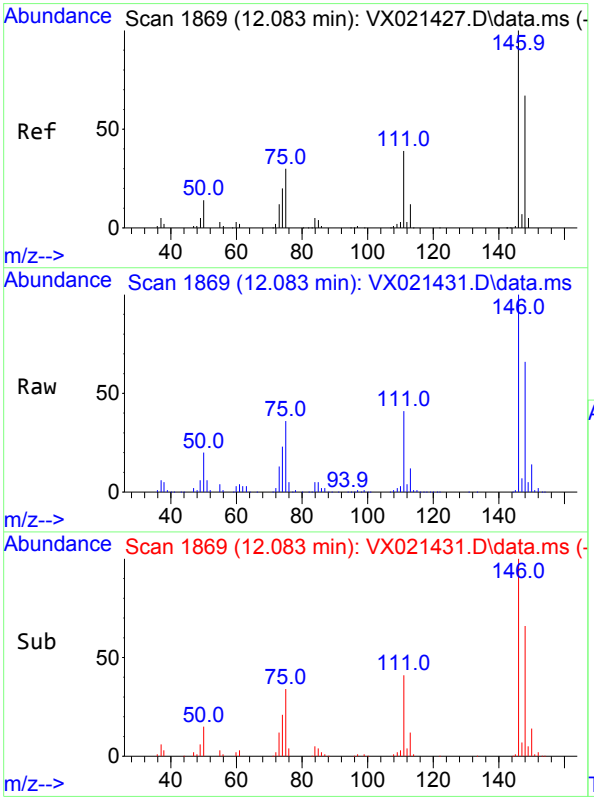


#87
1,3-Dichlorobenzene
Concen: 53.39 ug/l
RT: 12.006 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:146 Resp: 108272

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.2	60.5
148	61.1	31.9	95.7

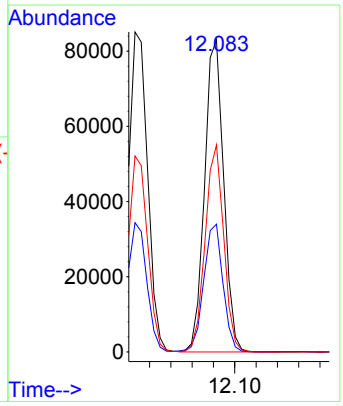




#88
1,4-Dichlorobenzene
Concen: 49.39 ug/l
RT: 12.083 min Scan# 1869
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

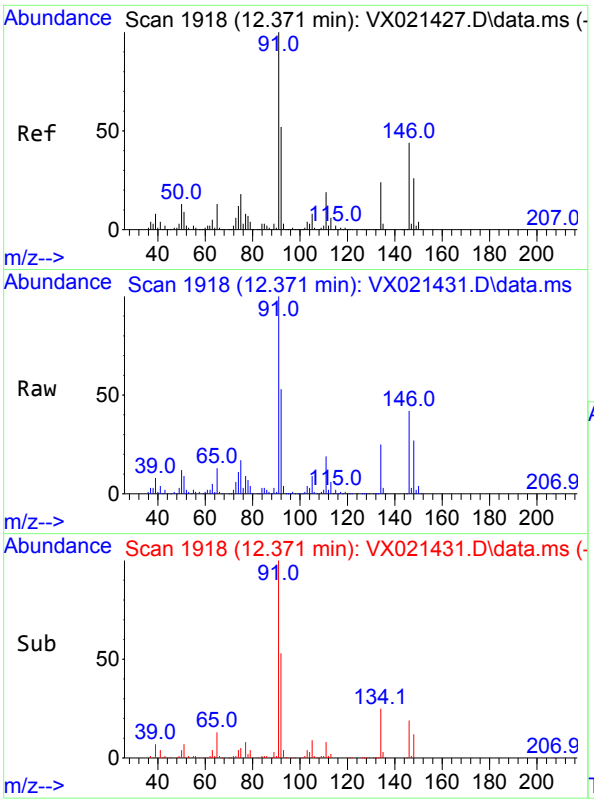
Tgt Ion:146 Resp: 103631

Ion	Ratio	Lower	Upper
146	100		
111	41.5	19.6	58.8
148	64.5	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

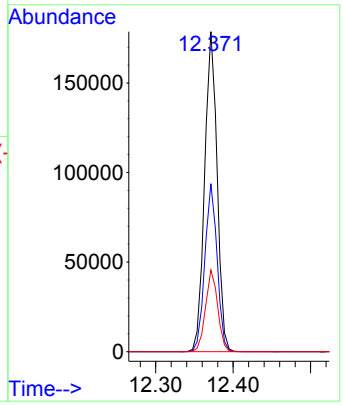
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

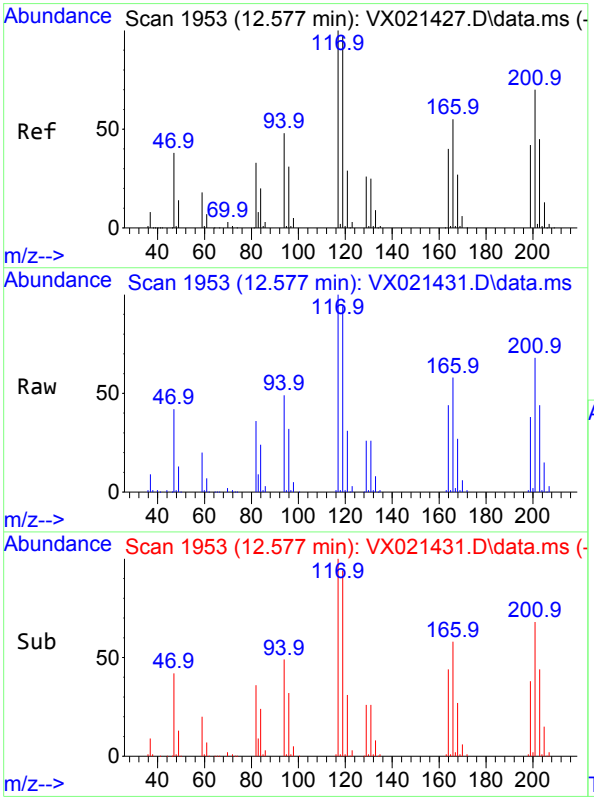


#89
n-Butylbenzene
Concen: 54.92 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion: 91 Resp: 199675

Ion	Ratio	Lower	Upper
91	100		
92	51.7	27.4	82.0
134	24.8	13.2	39.5

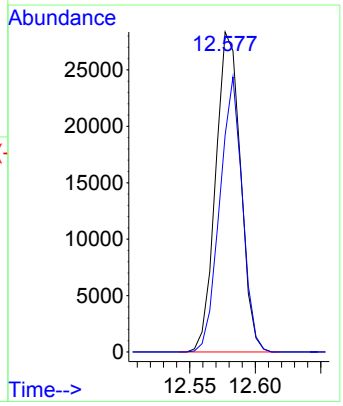




#90
Hexachloroethane
Concen: 52.16 ug/l
RT: 12.577 min Scan# 1953
Delta R.T. 0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

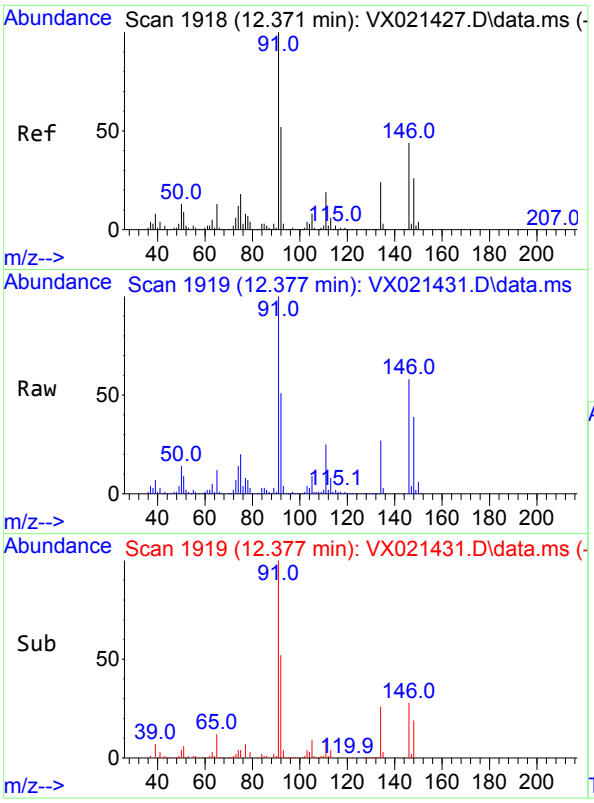
Tgt Ion:117 Resp: 37354

Ion	Ratio	Lower	Upper
117	100		
201	78.1	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

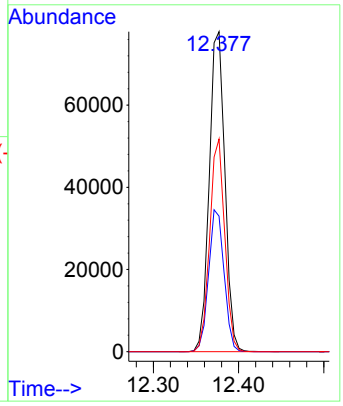
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

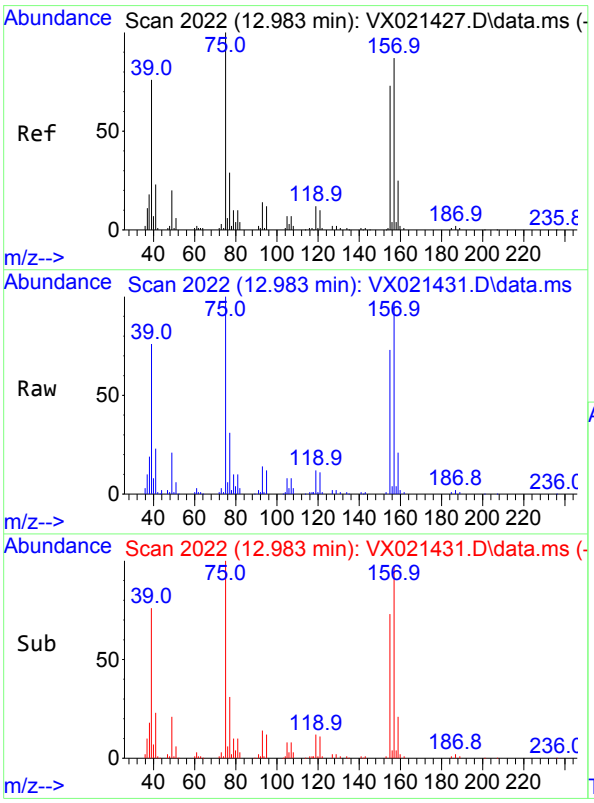


#91
1,2-Dichlorobenzene
Concen: 50.35 ug/l
RT: 12.377 min Scan# 1919
Delta R.T. 0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:146 Resp: 99280

Ion	Ratio	Lower	Upper
146	100		
111	43.9	20.8	62.2
148	64.1	31.9	95.5

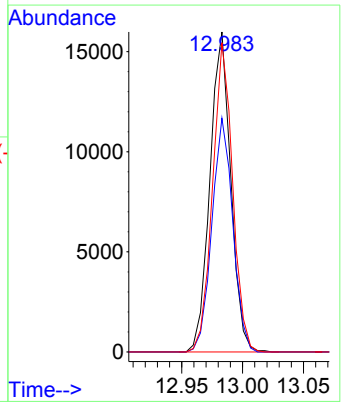




#92
1,2-Dibromo-3-Chloropropane
Concen: 47.06 ug/l
RT: 12.983 min Scan# 2022
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

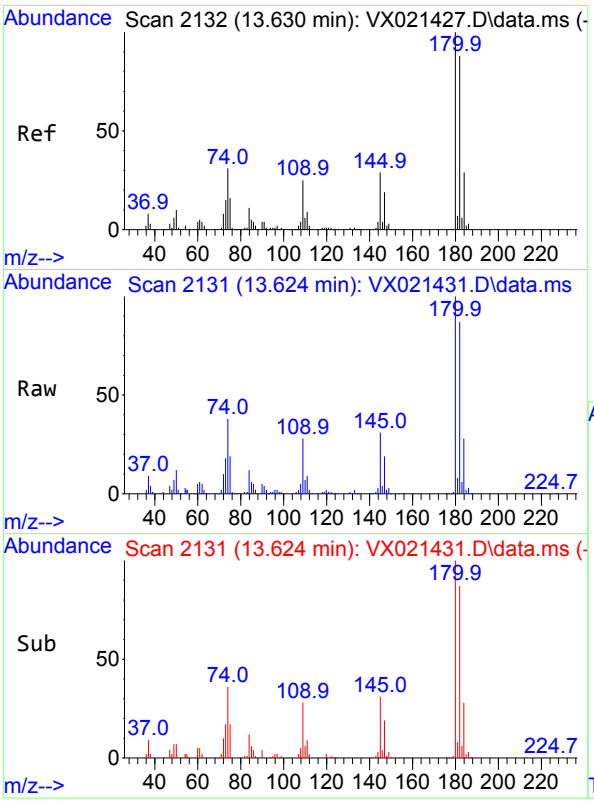
Tgt Ion: 75 Resp: 18989

Ion	Ratio	Lower	Upper
75	100		
155	73.5	45.3	135.9
157	93.2	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

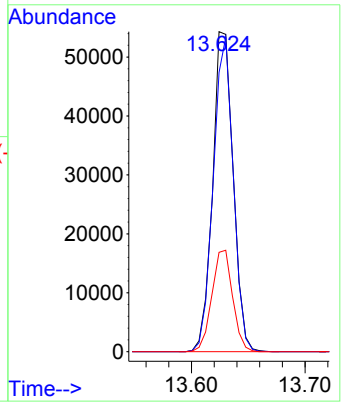
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

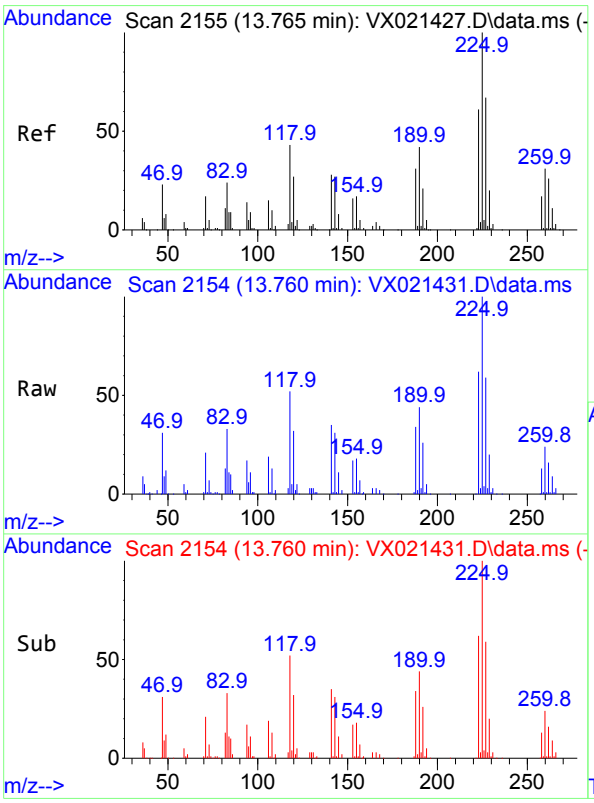


#93
1,2,4-Trichlorobenzene
Concen: 52.92 ug/l
RT: 13.624 min Scan# 2131
Delta R.T. -0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:180 Resp: 68389

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.7	143.1
145	32.0	15.0	45.0

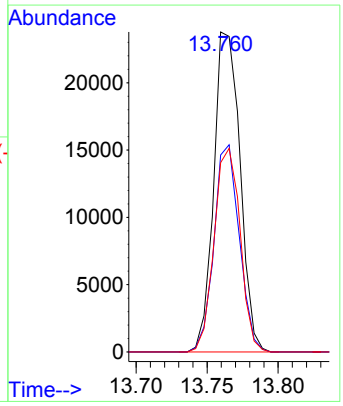




#94
Hexachlorobutadiene
Concen: 52.38 ug/l
RT: 13.760 min Scan# 2154
Delta R.T. -0.005 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

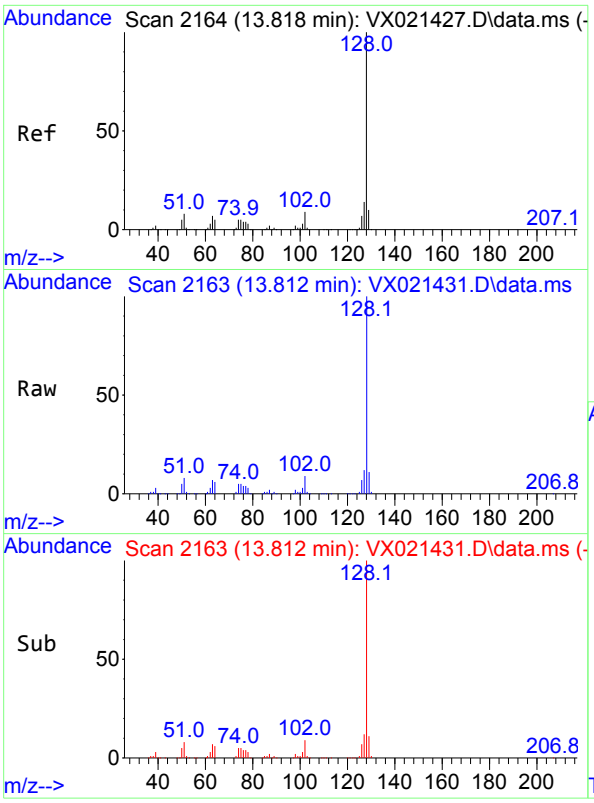
Tgt Ion:225 Resp: 30555

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.1	93.2
227	62.9	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

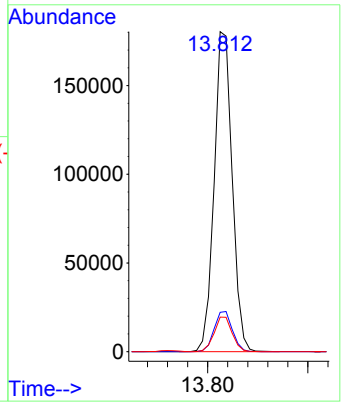
Manual Integrations APPROVED
MMDadoda
3/25/2021 9:49:46 AM

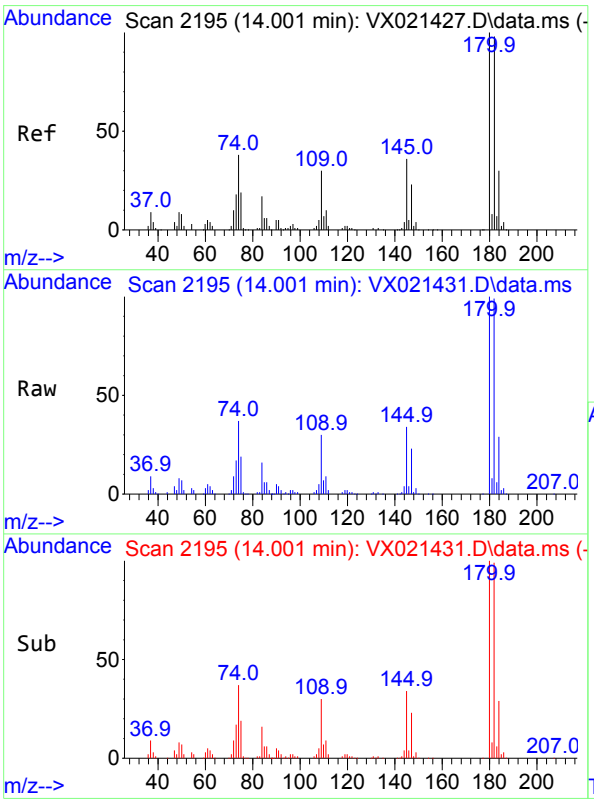


#95
Naphthalene
Concen: 53.36 ug/l
RT: 13.812 min Scan# 2163
Delta R.T. -0.006 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:128 Resp: 224939

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	10.9	8.8	13.2

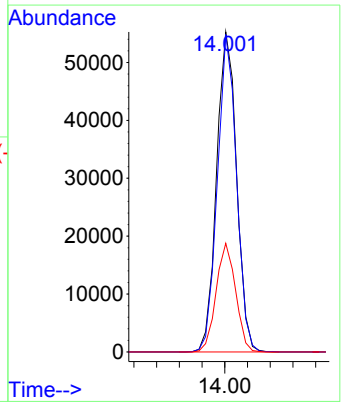




#96
1,2,3-Trichlorobenzene
Concen: 52.18 ug/l
RT: 14.001 min Scan# 2195
Delta R.T. -0.000 min
Lab File: VX021431.D
Acq: 24 Mar 2021 12:43

Tgt Ion:180 Resp: 67410

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.6	142.9
145	33.2	16.1	48.3



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021431.D
Acq On : 24 Mar 2021 12:43
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : ICVVX032421

Quant Time: Mar 24 17:16:36 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
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	106	0.00
2	T	Dichlorodifluoromethane	0.550	0.549	0.2	105	0.00
3	P	Chloromethane	0.702	0.601	14.4	104	0.00
4	C	Vinyl Chloride	0.562	0.551	2.0#	102	0.00
5	T	Bromomethane	0.226	0.229	-1.3	110	0.00
6	T	Chloroethane	0.357	0.345	3.4	102	0.00
7	T	Trichlorofluoromethane	0.914	0.890	2.6	100	0.00
8	T	Diethyl Ether	0.317	0.309	2.5	104	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.515	0.507	1.6	105	0.00
10	T	Methyl Iodide	0.362	0.367	-1.4	107	0.00
11	T	Tert butyl alcohol	0.138	0.134	2.9	107	0.00
12	CM	1,1-Dichloroethene	0.504	0.475	5.8#	104	0.00
13	T	Acrolein	0.077	0.061	20.8	97	0.00
14	T	Allyl chloride	1.023	0.985	3.7	103	0.00
15	T	Acrylonitrile	0.327	0.320	2.1	102	0.00
16	T	Acetone	0.315	0.296	6.0	102	0.00
17	T	Carbon Disulfide	1.415	1.313	7.2	103	0.00
18	T	Methyl Acetate	0.909	0.907	0.2	102	0.00
19	T	Methyl tert-butyl Ether	1.882	1.841	2.2	102	0.00
20	T	Methylene Chloride	0.614	0.572	6.8	102	0.00
21	T	trans-1,2-Dichloroethene	0.553	0.529	4.3	102	0.00
22	T	Diisopropyl ether	1.987	1.953	1.7	102	0.00
23	T	Vinyl Acetate	1.681	1.677	0.2	102	0.00
24	P	1,1-Dichloroethane	1.071	1.037	3.2	102	0.00
25	T	2-Butanone	0.477	0.461	3.4	102	0.00
26	T	2,2-Dichloropropane	0.928	0.923	0.5	103	0.00
27	T	cis-1,2-Dichloroethene	0.643	0.626	2.6	103	0.00
28	T	Bromochloromethane	0.536	0.475	11.4	100	0.00
29	T	Tetrahydrofuran	0.309	0.299	3.2	102	0.00
30	C	Chloroform	1.131	1.109	1.9#	102	0.00
31	T	Cyclohexane	0.915	0.910	0.5	103	0.00
32	T	1,1,1-Trichloroethane	1.002	0.986	1.6	102	0.00
33	S	1,2-Dichloroethane-d4	0.832	0.751	9.7	102	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35	S	Dibromofluoromethane	0.355	0.334	5.9	104	0.00
36	T	1,1-Dichloropropene	0.490	0.494	-0.8	104	0.00
37	T	Ethyl Acetate	0.566	0.541	4.4	102	0.00
38	T	Carbon Tetrachloride	0.526	0.533	-1.3	102	0.00
39	T	Methylcyclohexane	0.543	0.570	-5.0	104	0.00
40	TM	Benzene	1.391	1.394	-0.2	102	0.00
41	T	Methacrylonitrile	0.329	0.318	3.3	101	0.00
42	TM	1,2-Dichloroethane	0.603	0.606	-0.5	102	0.00
43	T	Isopropyl Acetate	0.920	0.920	0.0	102	0.00
44	TM	Trichloroethene	0.367	0.365	0.5	103	0.00
45	C	1,2-Dichloropropane	0.377	0.382	-1.3#	102	0.00
46	T	Dibromomethane	0.275	0.275	0.0	101	0.00
47	T	Bromodichloromethane	0.559	0.571	-2.1	103	0.00
48	T	Methyl methacrylate	0.491	0.498	-1.4	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021431.D
Acq On : 24 Mar 2021 12:43
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : ICVVX032421

Quant Time: Mar 24 17:16:36 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.009	0.0	104	0.00
50	S	Toluene-d8	1.266	1.204	4.9	101	0.00
51	T	4-Methyl-2-Pentanone	0.566	0.584	-3.2	102	0.00
52	CM	Toluene	0.859	0.904	-5.2#	104	0.00
53	T	t-1,3-Dichloropropene	0.564	0.594	-5.3	104	0.00
54	T	cis-1,3-Dichloropropene	0.601	0.626	-4.2	103	0.00
55	T	1,1,2-Trichloroethane	0.363	0.379	-4.4	105	0.00
56	T	Ethyl methacrylate	0.548	0.586	-6.9	103	0.00
57	T	1,3-Dichloropropane	0.621	0.636	-2.4	103	0.00
58	T	2-Chloroethyl Vinyl ether	0.307	0.320	-4.2	103	0.00
59	T	2-Hexanone	0.425	0.442	-4.0	103	0.00
60	T	Dibromochloromethane	0.406	0.426	-4.9	103	0.00
61	T	1,2-Dibromoethane	0.390	0.401	-2.8	102	0.00
62	S	4-Bromofluorobenzene	0.492	0.476	3.3	105	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
64	T	Tetrachloroethene	0.335	0.352	-5.1	105	0.00
65	PM	Chlorobenzene	1.004	1.033	-2.9	103	0.00
66	T	1,1,1,2-Tetrachloroethane	0.385	0.396	-2.9	102	0.00
67	C	Ethyl Benzene	1.831	1.948	-6.4#	105	0.00
68	T	m/p-Xylenes	0.652	0.702	-7.7	105	0.00
69	T	o-Xylene	0.632	0.668	-5.7	104	0.00
70	T	Styrene	1.086	1.156	-6.4	105	0.00
71	P	Bromoform	0.313	0.323	-3.2	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
73	T	Isopropylbenzene	3.513	3.751	-6.8	106	0.00
74	T	N-amyl acetate	1.700	1.716	-0.9	104	0.00
75	P	1,1,2,2-Tetrachloroethane	1.241	1.244	-0.2	104	0.00
76	T	1,2,3-Trichloropropane	1.164	1.211	-4.0	103	0.00
77	T	Bromobenzene	0.871	0.872	-0.1	102	0.00
78	T	n-propylbenzene	4.149	4.423	-6.6	107	0.00
79	T	2-Chlorotoluene	2.517	2.642	-5.0	106	0.00
80	T	1,3,5-Trimethylbenzene	3.001	3.236	-7.8	107	0.00
81	T	trans-1,4-Dichloro-2-butene	0.382	0.384	-0.5	102	0.00
82	T	4-Chlorotoluene	2.988	3.130	-4.8	106	0.00
83	T	tert-Butylbenzene	2.922	3.011	-3.0	104	0.00
84	T	1,2,4-Trimethylbenzene	3.026	3.269	-8.0	107	0.00
85	T	sec-Butylbenzene	3.371	3.650	-8.3	106	0.00
86	T	p-Isopropyltoluene	3.068	3.383	-10.3	106	0.00
87	T	1,3-Dichlorobenzene	1.568	1.674	-6.8	111	0.00
88	T	1,4-Dichlorobenzene	1.622	1.603	1.2	105	0.00
89	T	n-Butylbenzene	2.811	3.088	-9.9	108	0.00
90	T	Hexachloroethane	0.554	0.578	-4.3	106	0.00
91	T	1,2-Dichlorobenzene	1.525	1.535	-0.7	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.286	0.294	-2.8	103	0.00
93	T	1,2,4-Trichlorobenzene	0.999	1.058	-5.9	109	0.00
94	T	Hexachlorobutadiene	0.451	0.473	-4.9	110	0.00
95	T	Naphthalene	3.259	3.479	-6.8	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021431.D
Acq On : 24 Mar 2021 12:43
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

Quant Time: Mar 24 17:16:36 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
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	0.999	1.042	-4.3	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021431.D
Acq On : 24 Mar 2021 12:43
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : ICVVX032421

Quant Time: Mar 24 17:16:36 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
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	106	0.00
2	T	Dichlorodifluoromethane	50.000	49.982	0.0	105	0.00
3	P	Chloromethane	50.000	47.592	4.8	104	0.00
4	C	Vinyl Chloride	50.000	49.016	2.0#	102	0.00
5	T	Bromomethane	50.000	50.631	-1.3	110	0.00
6	T	Chloroethane	50.000	48.388	3.2	102	0.00
7	T	Trichlorofluoromethane	50.000	48.685	2.6	100	0.00
8	T	Diethyl Ether	50.000	48.741	2.5	104	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.212	1.6	105	0.00
10	T	Methyl Iodide	50.000	46.288	7.4	107	0.00
11	T	Tert butyl alcohol	250.000	244.245	2.3	107	0.00
12	CM	1,1-Dichloroethene	50.000	47.089	5.8#	104	0.00
13	T	Acrolein	250.000	221.188	11.5	97	0.00
14	T	Allyl chloride	50.000	48.172	3.7	103	0.00
15	T	Acrylonitrile	250.000	244.425	2.2	102	0.00
16	T	Acetone	250.000	235.020	6.0	102	0.00
17	T	Carbon Disulfide	50.000	46.385	7.2	103	0.00
18	T	Methyl Acetate	50.000	49.917	0.2	102	0.00
19	T	Methyl tert-butyl Ether	50.000	48.907	2.2	102	0.00
20	T	Methylene Chloride	50.000	46.611	6.8	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.832	4.3	102	0.00
22	T	Diisopropyl ether	50.000	49.138	1.7	102	0.00
23	T	Vinyl Acetate	250.000	249.364	0.3	102	0.00
24	P	1,1-Dichloroethane	50.000	48.409	3.2	102	0.00
25	T	2-Butanone	250.000	241.707	3.3	102	0.00
26	T	2,2-Dichloropropane	50.000	49.711	0.6	103	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.735	2.5	103	0.00
28	T	Bromochloromethane	50.000	44.315	11.4	100	0.00
29	T	Tetrahydrofuran	250.000	241.791	3.3	102	0.00
30	C	Chloroform	50.000	49.022	2.0#	102	0.00
31	T	Cyclohexane	50.000	49.745	0.5	103	0.00
32	T	1,1,1-Trichloroethane	50.000	49.224	1.6	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.112	9.8	102	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35	S	Dibromofluoromethane	50.000	46.951	6.1	104	0.00
36	T	1,1-Dichloropropene	50.000	50.370	-0.7	104	0.00
37	T	Ethyl Acetate	50.000	47.795	4.4	102	0.00
38	T	Carbon Tetrachloride	50.000	50.609	-1.2	102	0.00
39	T	Methylcyclohexane	50.000	52.517	-5.0	104	0.00
40	TM	Benzene	50.000	50.112	-0.2	102	0.00
41	T	Methacrylonitrile	50.000	48.320	3.4	101	0.00
42	TM	1,2-Dichloroethane	50.000	50.200	-0.4	102	0.00
43	T	Isopropyl Acetate	50.000	49.991	0.0	102	0.00
44	TM	Trichloroethene	50.000	49.655	0.7	103	0.00
45	C	1,2-Dichloropropane	50.000	50.665	-1.3#	102	0.00
46	T	Dibromomethane	50.000	50.075	-0.2	101	0.00
47	T	Bromodichloromethane	50.000	51.051	-2.1	103	0.00
48	T	Methyl methacrylate	50.000	50.717	-1.4	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021431.D
Acq On : 24 Mar 2021 12:43
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : ICVVX032421

Quant Time: Mar 24 17:16:36 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
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	1025.813	-2.6	104	0.00
50	S	Toluene-d8	50.000	47.563	4.9	101	0.00
51	T	4-Methyl-2-Pentanone	250.000	258.011	-3.2	102	0.00
52	CM	Toluene	50.000	52.621	-5.2#	104	0.00
53	T	t-1,3-Dichloropropene	50.000	52.652	-5.3	104	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.120	-4.2	103	0.00
55	T	1,1,2-Trichloroethane	50.000	52.273	-4.5	105	0.00
56	T	Ethyl methacrylate	50.000	47.911	4.2	103	0.00
57	T	1,3-Dichloropropane	50.000	51.251	-2.5	103	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	260.718	-4.3	103	0.00
59	T	2-Hexanone	250.000	260.387	-4.2	103	0.00
60	T	Dibromochloromethane	50.000	52.494	-5.0	103	0.00
61	T	1,2-Dibromoethane	50.000	51.444	-2.9	102	0.00
62	S	4-Bromofluorobenzene	50.000	48.400	3.2	105	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	103	0.00
64	T	Tetrachloroethene	50.000	52.610	-5.2	105	0.00
65	PM	Chlorobenzene	50.000	51.397	-2.8	103	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.455	-2.9	102	0.00
67	C	Ethyl Benzene	50.000	53.187	-6.4#	105	0.00
68	T	m/p-Xylenes	100.000	107.580	-7.6	105	0.00
69	T	o-Xylene	50.000	52.832	-5.7	104	0.00
70	T	Styrene	50.000	53.191	-6.4	105	0.00
71	P	Bromoform	50.000	51.648	-3.3	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	106	0.00
73	T	Isopropylbenzene	50.000	53.390	-6.8	106	0.00
74	T	N-amyl acetate	50.000	50.467	-0.9	104	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.098	-0.2	104	0.00
76	T	1,2,3-Trichloropropane	50.000	52.027	-4.1	103	0.00
77	T	Bromobenzene	50.000	50.048	-0.1	102	0.00
78	T	n-propylbenzene	50.000	53.305	-6.6	107	0.00
79	T	2-Chlorotoluene	50.000	52.481	-5.0	106	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.911	-7.8	107	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.221	-0.4	102	0.00
82	T	4-Chlorotoluene	50.000	52.374	-4.7	106	0.00
83	T	tert-Butylbenzene	50.000	51.521	-3.0	104	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.018	-8.0	107	0.00
85	T	sec-Butylbenzene	50.000	54.139	-8.3	106	0.00
86	T	p-Isopropyltoluene	50.000	55.124	-10.2	106	0.00
87	T	1,3-Dichlorobenzene	50.000	53.385	-6.8	111	0.00
88	T	1,4-Dichlorobenzene	50.000	49.394	1.2	105	0.00
89	T	n-Butylbenzene	50.000	54.922	-9.8	108	0.00
90	T	Hexachloroethane	50.000	52.160	-4.3	106	0.00
91	T	1,2-Dichlorobenzene	50.000	50.346	-0.7	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.057	5.9	103	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.915	-5.8	109	0.00
94	T	Hexachlorobutadiene	50.000	52.378	-4.8	110	0.00
95	T	Naphthalene	50.000	53.362	-6.7	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021431.D
Acq On : 24 Mar 2021 12:43
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX032421

Quant Time: Mar 24 17:16:36 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
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	52.180	-4.4	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHAZ02

Lab Code: CHEM Case No.: M1785 SAS No.: M1785 SDG No.: M1785

Instrument ID: MSVOA_X Calibration Date/Time: 03/29/2021 09:35

Lab File ID: VX021564.D Init. Calib. Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.550	0.514		-6.55	20
Chloromethane	0.702	0.561	0.1	-20.08	20
Vinyl Chloride	0.562	0.525		-6.58	20
Bromomethane	0.226	0.232		2.65	20
Chloroethane	0.357	0.326		-8.68	20
Trichlorofluoromethane	0.914	0.879		-3.83	20
1,1,2-Trichlorotrifluoroethane	0.515	0.492		-4.47	20
1,1-Dichloroethene	0.504	0.457		-9.32	20
Acetone	0.315	0.256		-18.73	20
Carbon Disulfide	1.415	1.197		-15.41	20
Methyl tert-butyl Ether	1.882	1.769		-6	20
Methyl Acetate	0.909	0.865		-4.84	20
Methylene Chloride	0.614	0.554		-9.77	20
trans-1,2-Dichloroethene	0.553	0.502		-9.22	20
1,1-Dichloroethane	1.071	1.006	0.1	-6.07	20
Cyclohexane	0.915	0.847		-7.43	20
2-Butanone	0.477	0.407		-14.68	20
Carbon Tetrachloride	0.526	0.524		-0.38	20
cis-1,2-Dichloroethene	0.643	0.605		-5.91	20
Bromochloromethane	0.536	0.484		-9.7	20
Chloroform	1.131	1.077		-4.78	20
1,1,1-Trichloroethane	1.002	0.950		-5.19	20
Methylcyclohexane	0.543	0.530		-2.39	20
Benzene	1.391	1.334		-4.1	20
1,2-Dichloroethane	0.603	0.586		-2.82	20
Trichloroethene	0.367	0.348		-5.18	20
1,2-Dichloropropane	0.377	0.368		-2.39	20
Bromodichloromethane	0.559	0.557		-0.36	20
4-Methyl-2-Pentanone	0.566	0.527		-6.89	20
Toluene	0.859	0.848		-1.28	20
t-1,3-Dichloropropene	0.564	0.564		0	20
cis-1,3-Dichloropropene	0.601	0.608		1.16	20
1,1,2-Trichloroethane	0.363	0.361		-0.55	20
2-Hexanone	0.425	0.398		-6.35	20
Dibromochloromethane	0.406	0.421		3.69	20
1,2-Dibromoethane	0.390	0.375		-3.85	20
Tetrachloroethene	0.335	0.335		0	20
Chlorobenzene	1.004	0.975	0.3	-2.89	20
Ethyl Benzene	1.831	1.787		-2.4	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHAZ02

Lab Code: CHEM Case No.: M1785 SAS No.: M1785 SDG No.: M1785

Instrument ID: MSVOA_X Calibration Date/Time: 03/29/2021 09:35

Lab File ID: VX021564.D Init. Calib. Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.652	0.663		1.69	20
o-Xylene	0.632	0.627		-0.79	20
Styrene	1.086	1.099		1.2	20
Bromoform	0.313	0.317	0.1	1.28	20
Isopropylbenzene	3.513	3.556		1.22	20
1,1,2,2-Tetrachloroethane	1.241	1.137	0.3	-8.38	20
n-propylbenzene	4.149	4.187		0.92	20
1,3,5-Trimethylbenzene	3.001	3.044		1.43	20
tert-Butylbenzene	2.922	2.834		-3.01	20
1,2,4-Trimethylbenzene	3.026	3.054		0.93	20
sec-Butylbenzene	3.371	3.376		0.15	20
1,3-Dichlorobenzene	1.568	1.502		-4.21	20
1,4-Dichlorobenzene	1.622	1.542		-4.93	20
n-Butylbenzene	2.811	2.871		2.13	20
1,2-Dichlorobenzene	1.525	1.455		-4.59	20
1,2-Dibromo-3-Chloropropane	0.286	0.273		-4.55	20
1,2,4-Trichlorobenzene	0.999	1.007		0.8	20
1,2,3-Trichlorobenzene	0.999	0.998		-0.1	20
1,2-Dichloroethane-d4	0.832	0.769		-7.57	20
Dibromofluoromethane	0.355	0.343		-3.38	20
Toluene-d8	1.266	1.201		-5.13	20
4-Bromofluorobenzene	0.492	0.471		-4.27	20
1,4-Dioxane	8.784	7.964	0.05	-9.34	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021564.D
Acq On : 29 Mar 2021 09:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 30 03:22:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : VSTDCCC050

Manual Integrations APPROVED
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3/31/2021 9:41:24 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.617	168	94419	50.00	ug/l		-0.01
34) 1,4-Difluorobenzene	6.823	114	152632	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	141896	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	70614	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.023	65	72611	46.22	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 92.44%				
35) Dibromofluoromethane	5.464	113	52380	48.31	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.62%				
50) Toluene-d8	8.694	98	183345	47.46	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 94.92%				
62) 4-Bromofluorobenzene	11.118	95	71817	47.81	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.62%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.187	85	48495	46.73	ug/l		99
3) Chloromethane	1.311	50	53001	44.43	ug/l		99
4) Vinyl Chloride	1.393	62	49539	46.67	ug/l		97
5) Bromomethane	1.622	94	21924	51.32	ug/l		95
6) Chloroethane	1.705	64	30815	45.77	ug/l		99
7) Trichlorofluoromethane	1.911	101	82959	48.05	ug/l		100
8) Diethyl Ether	2.170	74	27831	46.45	ug/l		82
9) 1,1,2-Trichlorotrifluo...	2.358	101	46464	47.81	ug/l		96
10) Methyl Iodide	2.487	142	37799	49.83	ug/l	#	88
11) Tert butyl alcohol	3.011	59	56472	217.44	ug/l		97
12) 1,1-Dichloroethene	2.352	96	43190	45.39	ug/l		85
13) Acrolein	2.270	56	24318	186.73	ug/l		98
14) Allyl chloride	2.705	41	88047	45.59	ug/l	#	88
15) Acrylonitrile	3.111	53	137012	221.98	ug/l		98
16) Acetone	2.417	43	120744	203.27	ug/l		88
17) Carbon Disulfide	2.546	76	113047	42.31	ug/l		99
18) Methyl Acetate	2.746	43	81681	47.60	ug/l		91
19) Methyl tert-butyl Ether	3.164	73	166998	47.00	ug/l		97
20) Methylene Chloride	2.834	84	52311	45.13	ug/l	#	87
21) trans-1,2-Dichloroethene	3.140	96	47366	45.32	ug/l		92
22) Diisopropyl ether	3.823	45	176843	47.13	ug/l		94
23) Vinyl Acetate	3.782	43	736949	232.19	ug/l	#	94
24) 1,1-Dichloroethane	3.664	63	95018	46.97	ug/l		97
25) 2-Butanone	4.629	43	192197	213.45	ug/l		89
26) 2,2-Dichloropropane	4.546	77	86689	49.47	ug/l		96
27) cis-1,2-Dichloroethene	4.558	96	57088	47.04	ug/l		91
28) Bromochloromethane	4.970	49	45715	45.14	ug/l		85
29) Tetrahydrofuran	5.082	42	126753	217.11	ug/l		86
30) Chloroform	5.170	83	101736	47.65	ug/l		97
31) Cyclohexane	5.546	56	79944	46.28	ug/l		92
32) 1,1,1-Trichloroethane	5.458	97	89724	47.42	ug/l		97
36) 1,1-Dichloropropene	5.764	75	71496	47.81	ug/l		97
37) Ethyl Acetate	4.788	43	74023	42.81	ug/l	#	94
38) Carbon Tetrachloride	5.746	117	80024	49.79	ug/l		98
39) Methylcyclohexane	7.435	83	80970	48.84	ug/l		93
40) Benzene	6.105	78	203627	47.95	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021564.D
Acq On : 29 Mar 2021 09:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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3/31/2021 9:41:24 AM

Quant Time: Mar 30 03:22:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.999	41	45134	45.00	ug/l		89
42) 1,2-Dichloroethane	6.152	62	89429	48.57	ug/l		93
43) Isopropyl Acetate	6.405	43	128646	45.82	ug/l	#	91
44) Trichloroethene	7.182	130	53084	47.37	ug/l		98
45) 1,2-Dichloropropane	7.488	63	56224	48.87	ug/l		97
46) Dibromomethane	7.635	93	39497	47.10	ug/l		94
47) Bromodichloromethane	7.870	83	85017	49.82	ug/l		99
48) Methyl methacrylate	7.741	41	70354	46.97	ug/l	#	82
49) 1,4-Dioxane	7.711	88	24310	906.57	ug/l	#	89
51) 4-Methyl-2-Pentanone	8.617	43	402542	233.08	ug/l		89
52) Toluene	8.759	92	129409	49.33	ug/l		98
53) t-1,3-Dichloropropene	9.018	75	86012	49.92	ug/l		98
54) cis-1,3-Dichloropropene	8.412	75	92832	50.63	ug/l	#	86
55) 1,1,2-Trichloroethane	9.194	97	55102	49.77	ug/l		98
56) Ethyl methacrylate	9.159	69	81077	43.63	ug/l	#	76
57) 1,3-Dichloropropane	9.347	76	91480	48.28	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.288	63	235217	251.40	ug/l		95
59) 2-Hexanone	9.470	43	304010	234.43	ug/l		85
60) Dibromochloromethane	9.565	129	64324	51.87	ug/l		100
61) 1,2-Dibromoethane	9.653	107	57198	48.09	ug/l		100
64) Tetrachloroethene	9.318	164	47581	50.06	ug/l		91
65) Chlorobenzene	10.118	112	138329	48.53	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.200	131	55612	50.91	ug/l		99
67) Ethyl Benzene	10.235	91	253616	48.81	ug/l		99
68) m/p-Xylenes	10.341	106	188271	101.71	ug/l		94
69) o-Xylene	10.682	106	88946	49.61	ug/l		94
70) Styrene	10.694	104	155898	50.56	ug/l		96
71) Bromoform	10.841	173	45000	50.70	ug/l	#	100
73) Isopropylbenzene	11.000	105	251082	50.61	ug/l		97
74) N-amyl acetate	10.877	43	109888	45.77	ug/l	#	89
75) 1,1,2,2-Tetrachloroethane	11.247	83	80299	45.81	ug/l		100
76) 1,2,3-Trichloropropane	11.277	75	79542m	48.39	ug/l		
77) Bromobenzene	11.235	156	59808	48.63	ug/l		96
78) n-propylbenzene	11.341	91	295680	50.46	ug/l		97
79) 2-Chlorotoluene	11.400	91	174600	49.12	ug/l		97
80) 1,3,5-Trimethylbenzene	11.488	105	214978	50.72	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.059	75	26769	49.60	ug/l	#	67
82) 4-Chlorotoluene	11.494	91	206745	48.99	ug/l		97
83) tert-Butylbenzene	11.753	119	200143	48.50	ug/l		92
84) 1,2,4-Trimethylbenzene	11.788	105	215634	50.46	ug/l		97
85) sec-Butylbenzene	11.930	105	238360	50.07	ug/l		100
86) p-Isopropyltoluene	12.047	119	221586	51.14	ug/l		97
87) 1,3-Dichlorobenzene	12.006	146	106039	47.88	ug/l		97
88) 1,4-Dichlorobenzene	12.083	146	108920	47.54	ug/l		98
89) n-Butylbenzene	12.371	91	202746	51.07	ug/l		95
90) Hexachloroethane	12.577	117	40358	51.61	ug/l		96
91) 1,2-Dichlorobenzene	12.377	146	102769	47.72	ug/l		94
92) 1,2-Dibromo-3-Chloropr...	12.983	75	19299	43.93	ug/l		81
93) 1,2,4-Trichlorobenzene	13.630	180	71119	50.39	ug/l		97
94) Hexachlorobutadiene	13.765	225	31327	49.18	ug/l		98
95) Naphthalene	13.818	128	224130	48.69	ug/l		100
96) 1,2,3-Trichlorobenzene	14.001	180	70462	49.95	ug/l		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021564.D
Acq On : 29 Mar 2021 09:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 30 03:22:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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3/31/2021 9:41:24 AM

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

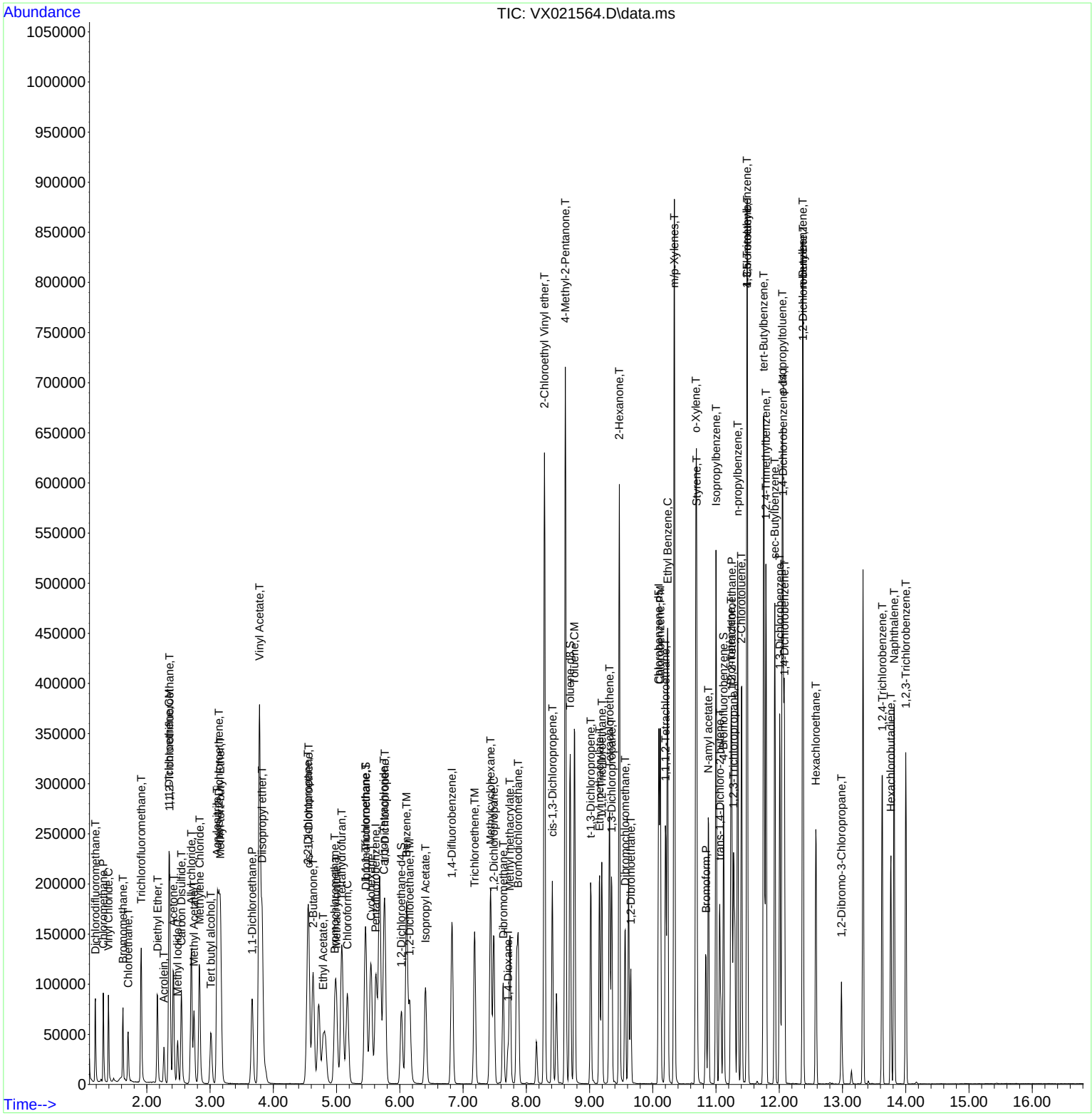
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021564.D
Acq On : 29 Mar 2021 09:35
Operator : JC/MD
Sample : VSTDCCC050
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Quant Time: Mar 30 03:22:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

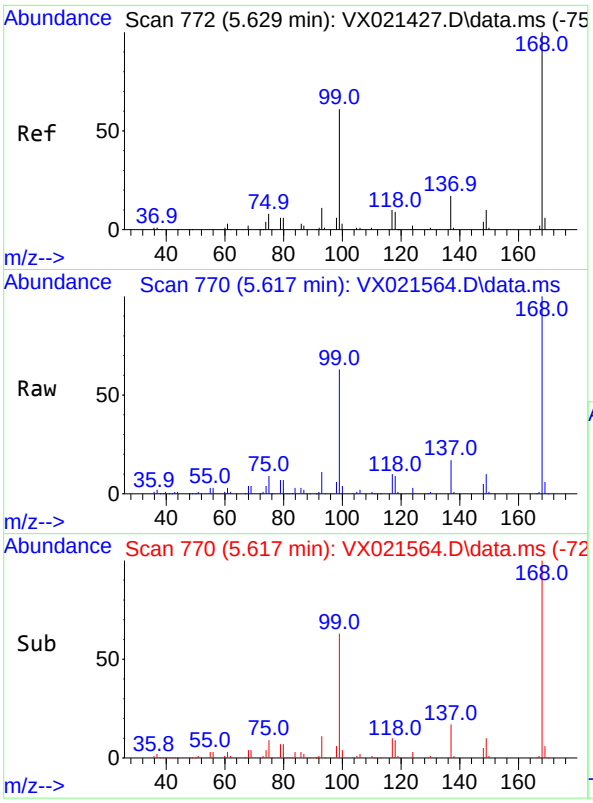
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
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Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

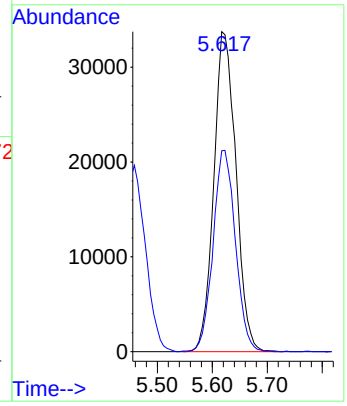
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3/31/2021 9:41:24 AM

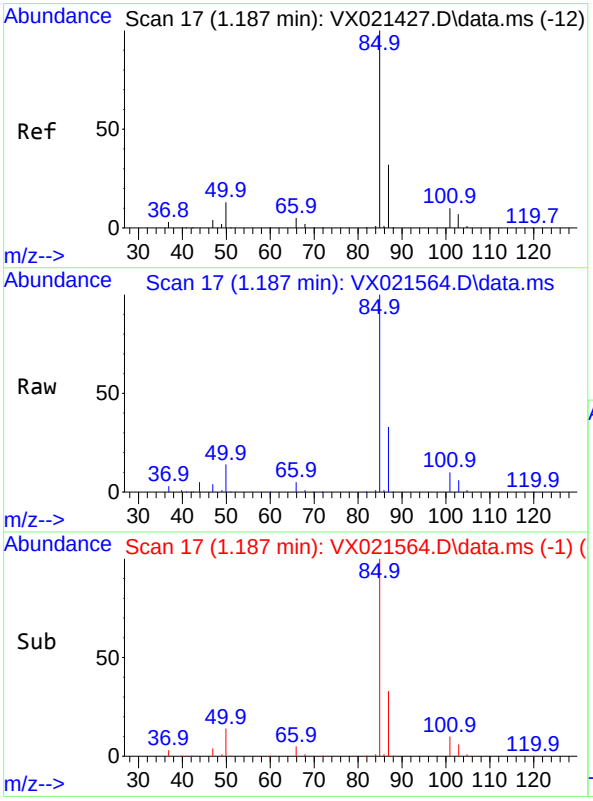


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.617 min Scan# 770
Delta R.T. -0.012 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:168 Resp: 94419

Ion	Ratio	Lower	Upper
168	100		
99	62.8	45.8	68.6

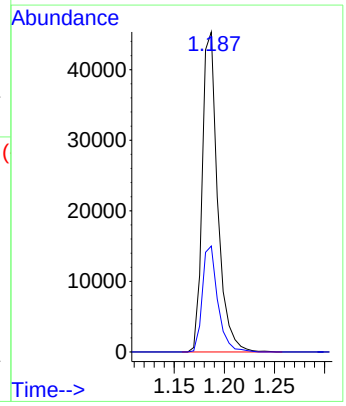




#2
Dichlorodifluoromethane
Concen: 46.73 ug/l
RT: 1.187 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

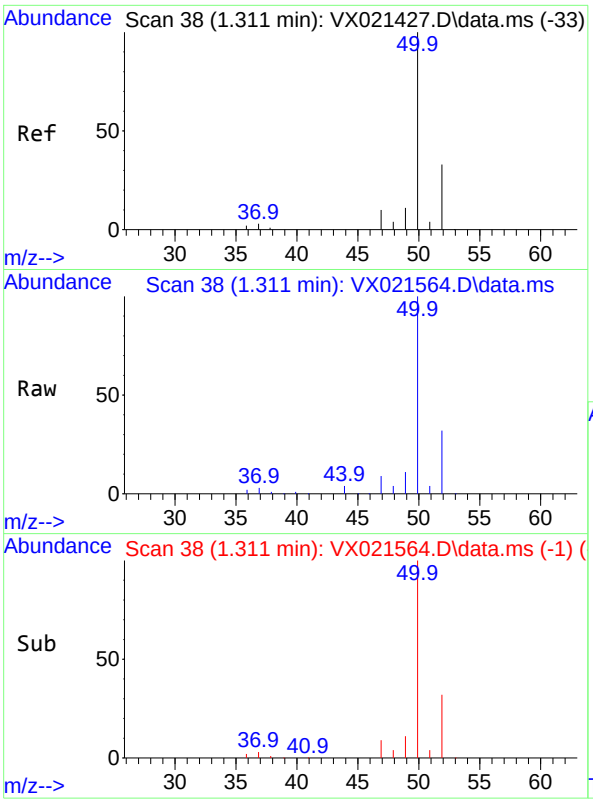
Tgt Ion: 85 Resp: 48495

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

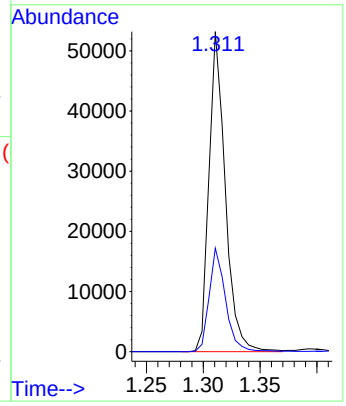
Manual Integrations APPROVED
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3/31/2021 9:41:24 AM

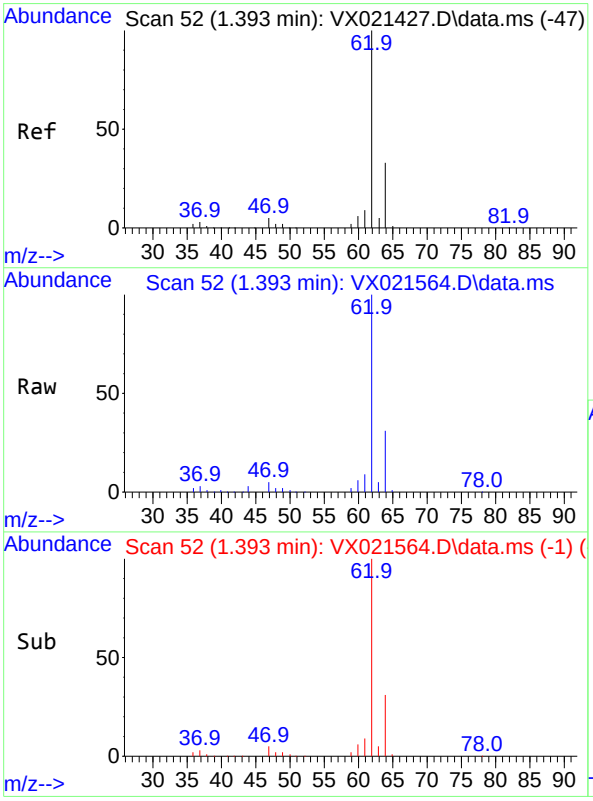


#3
Chloromethane
Concen: 44.43 ug/l
RT: 1.311 min Scan# 38
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 50 Resp: 53001

Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.4	39.6

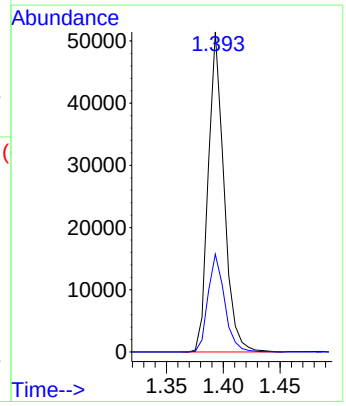




#4
Vinyl Chloride
Concen: 46.67 ug/l
RT: 1.393 min Scan# 52
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

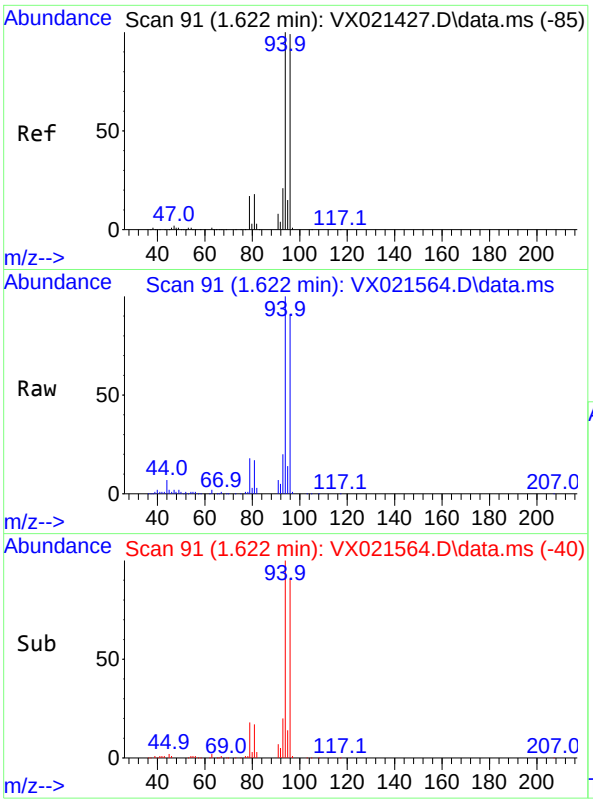
Tgt Ion: 62 Resp: 49539

Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

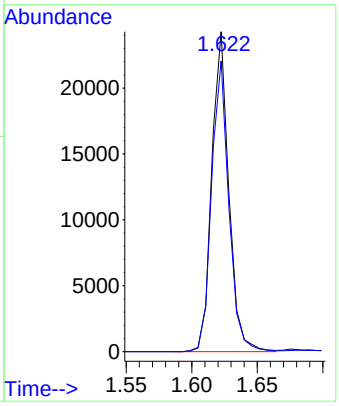
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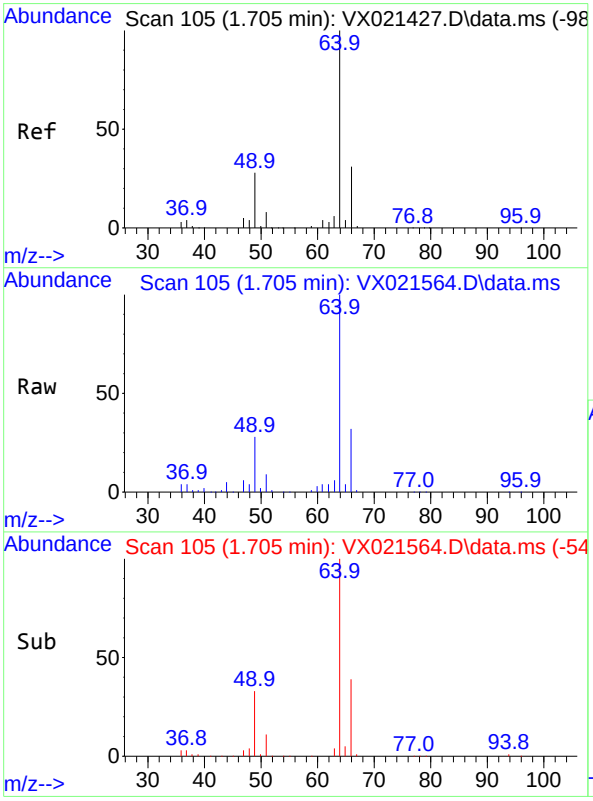


#5
Bromomethane
Concen: 51.32 ug/l
RT: 1.622 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 94 Resp: 21924

Ion	Ratio	Lower	Upper
94	100		
96	90.8	76.4	114.6

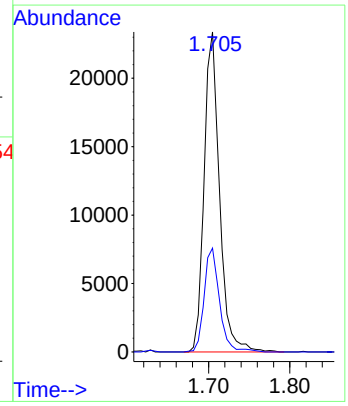




#6
Chloroethane
Concen: 45.77 ug/l
RT: 1.705 min Scan# 105
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

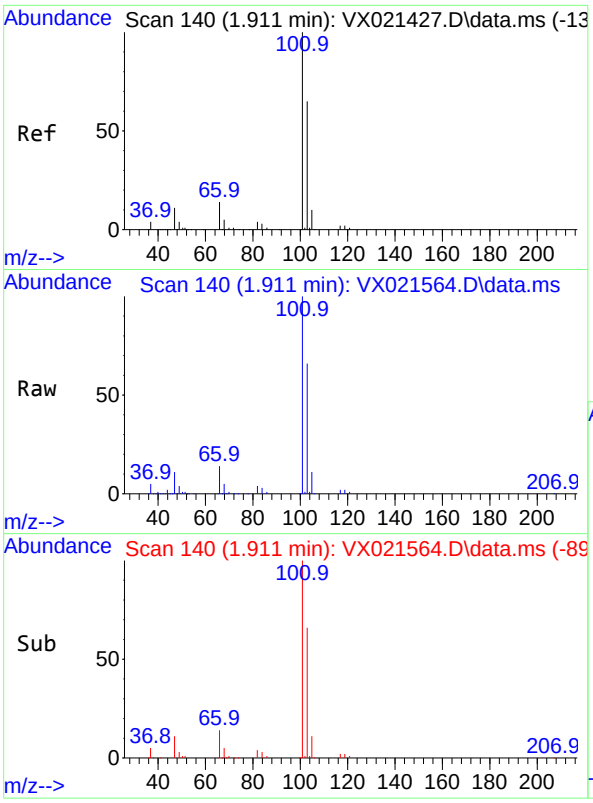
Tgt Ion: 64 Resp: 30815

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

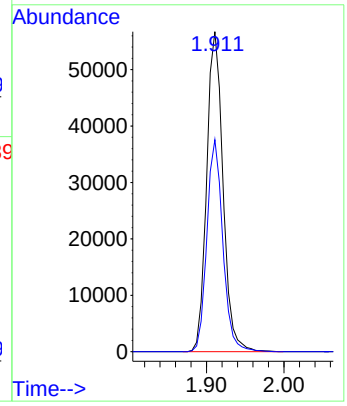
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

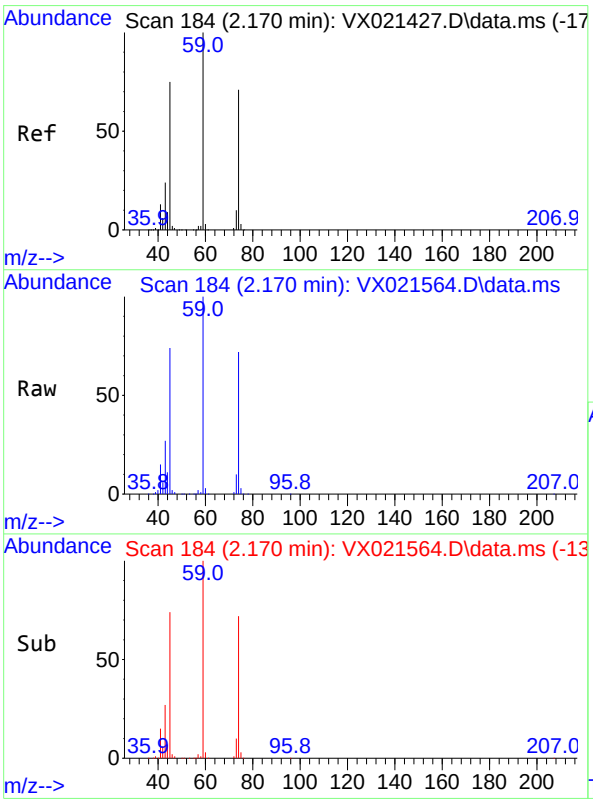


#7
Trichlorofluoromethane
Concen: 48.05 ug/l
RT: 1.911 min Scan# 140
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:101 Resp: 82959

Ion	Ratio	Lower	Upper
101	100		
103	66.3	53.2	79.8

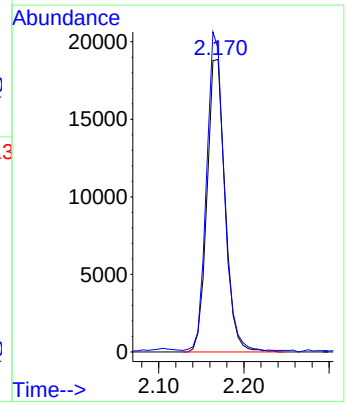




#8
Diethyl Ether
Concen: 46.45 ug/l
RT: 2.170 min Scan# 184
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

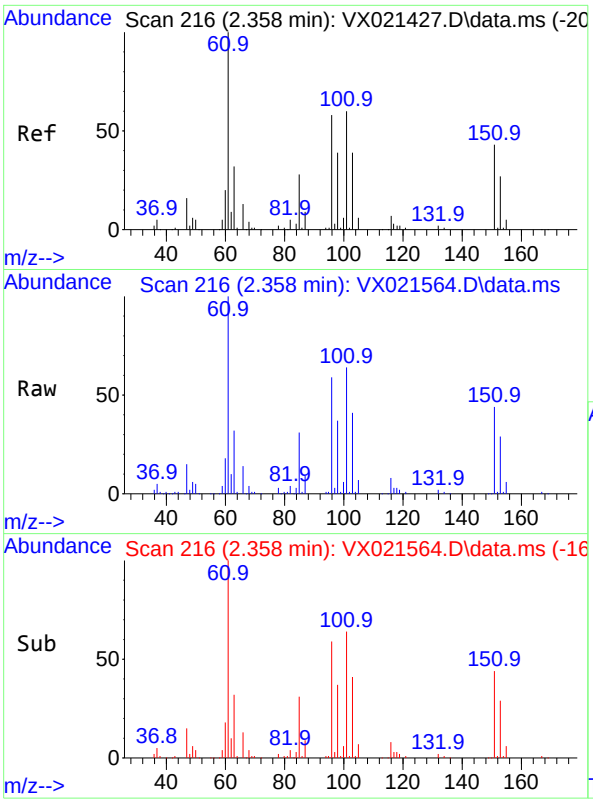
Tgt Ion: 74 Resp: 27831

Ion	Ratio	Lower	Upper
74	100		
45	105.6	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

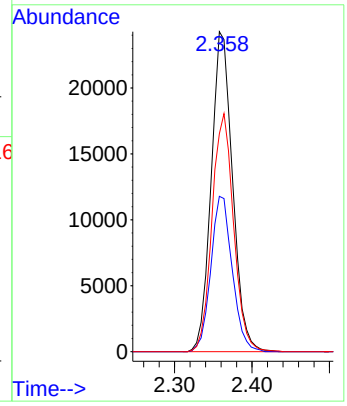
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

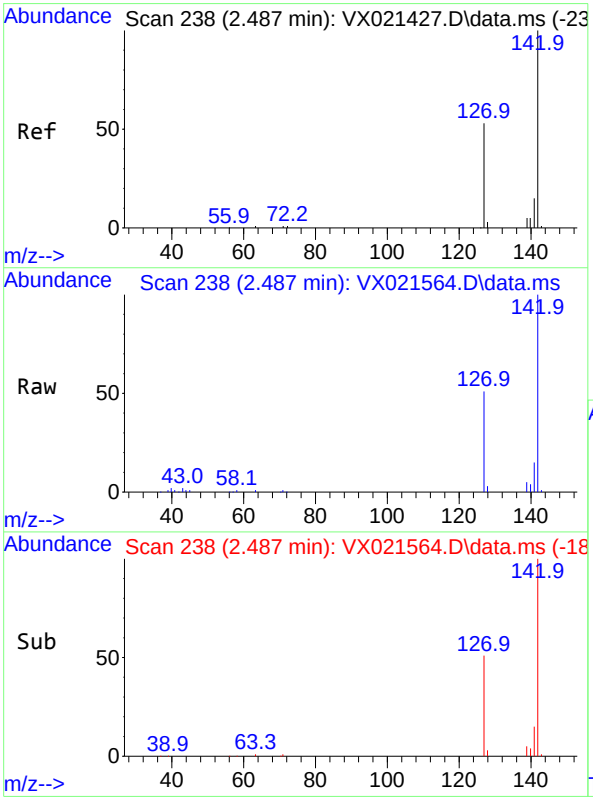


#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.81 ug/l
RT: 2.358 min Scan# 216
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:101 Resp: 46464

Ion	Ratio	Lower	Upper
101	100		
85	48.7	34.9	52.3
151	75.3	61.4	92.2

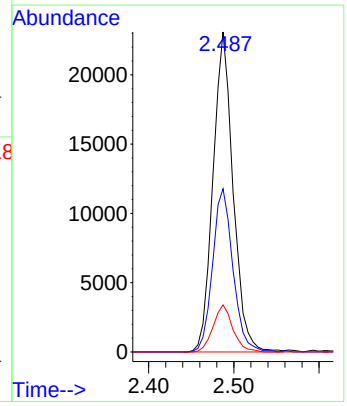




#10
Methyl Iodide
Concen: 49.83 ug/l
RT: 2.487 min Scan# 238
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

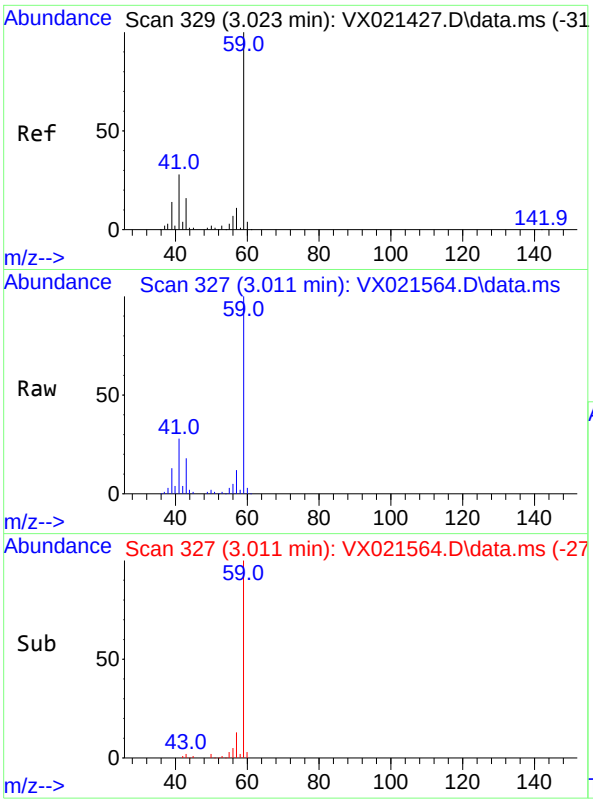
Tgt Ion:142 Resp: 37799

Ion	Ratio	Lower	Upper
142	100		
127	51.5	33.3	49.9#
141	14.4	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

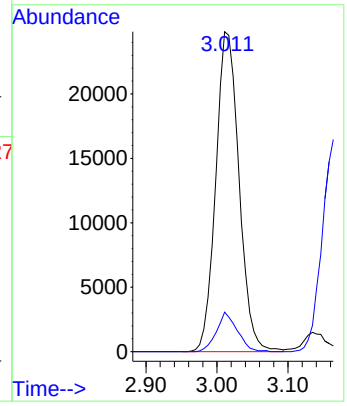
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

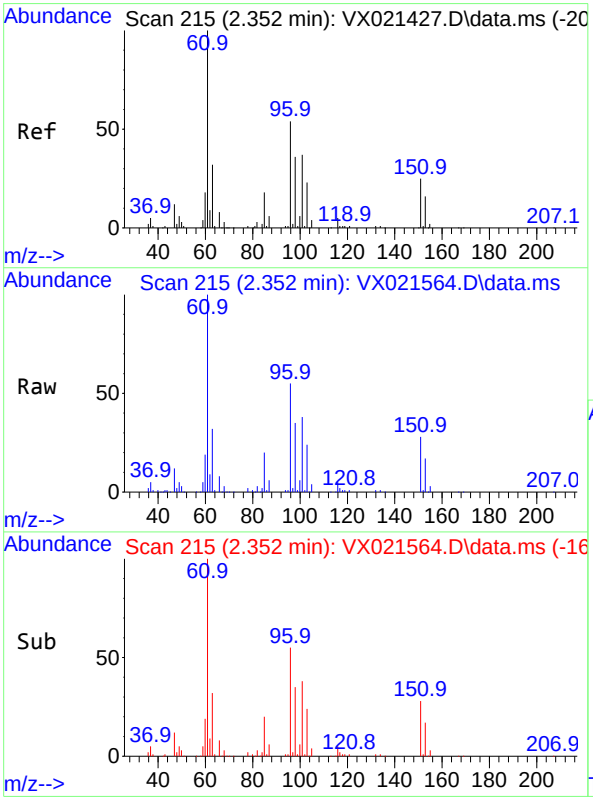


#11
Tert butyl alcohol
Concen: 217.44 ug/l
RT: 3.011 min Scan# 327
Delta R.T. -0.012 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 59 Resp: 56472

Ion	Ratio	Lower	Upper
59	100		
57	11.0	7.8	11.8

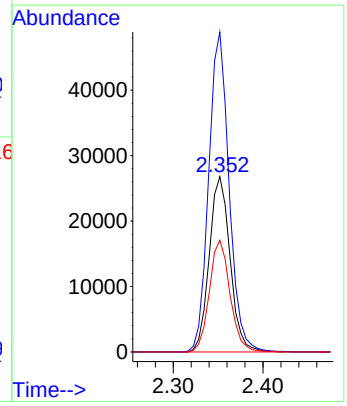




#12
1,1-Dichloroethene
Concen: 45.39 ug/l
RT: 2.352 min Scan# 215
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

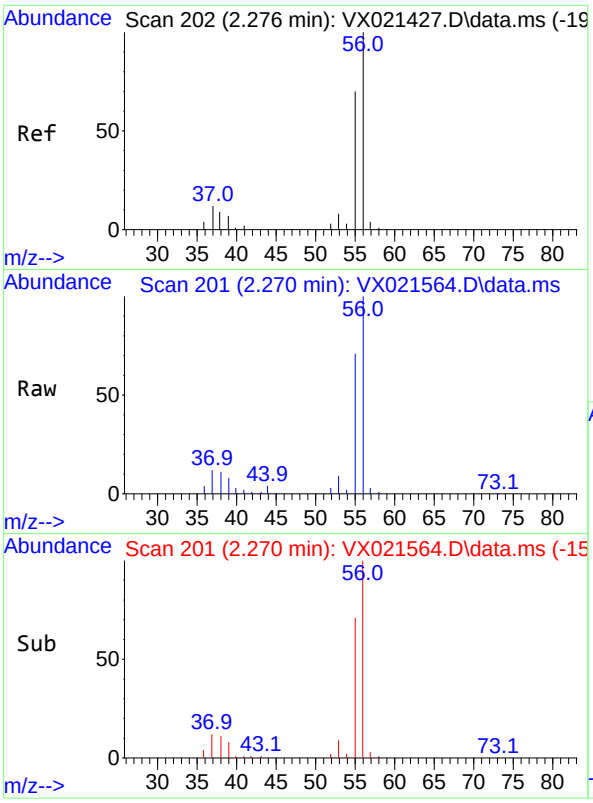
Tgt Ion: 96 Resp: 43190

Ion	Ratio	Lower	Upper
96	100		
61	182.5	124.6	187.0
98	63.7	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

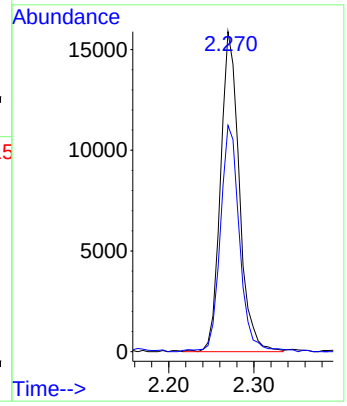
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

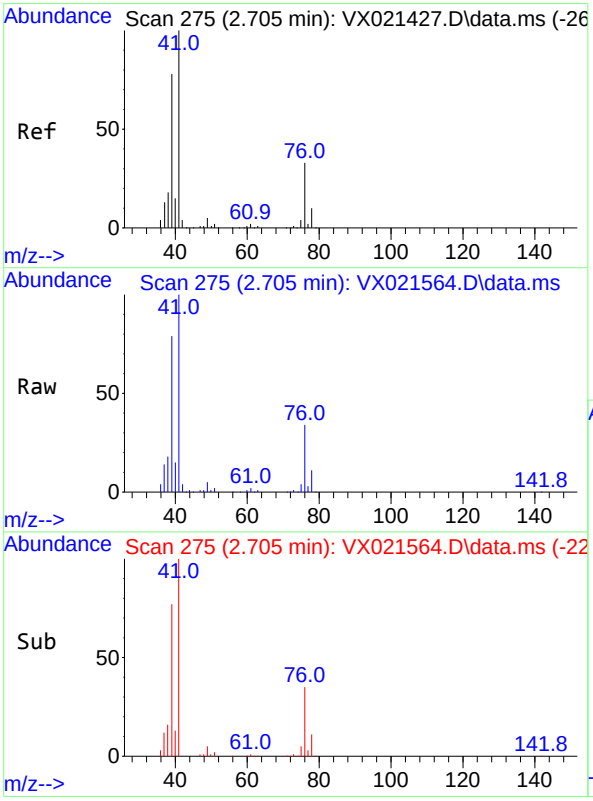


#13
Acrolein
Concen: 186.73 ug/l
RT: 2.270 min Scan# 201
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 56 Resp: 24318

Ion	Ratio	Lower	Upper
56	100		
55	72.2	56.4	84.6

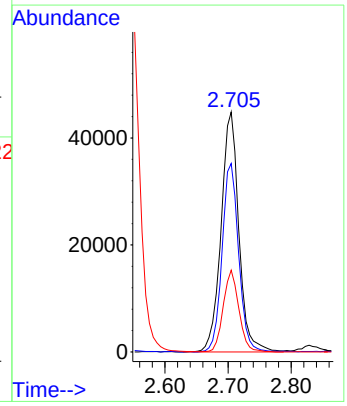




#14
Allyl chloride
Concen: 45.59 ug/l
RT: 2.705 min Scan# 275
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

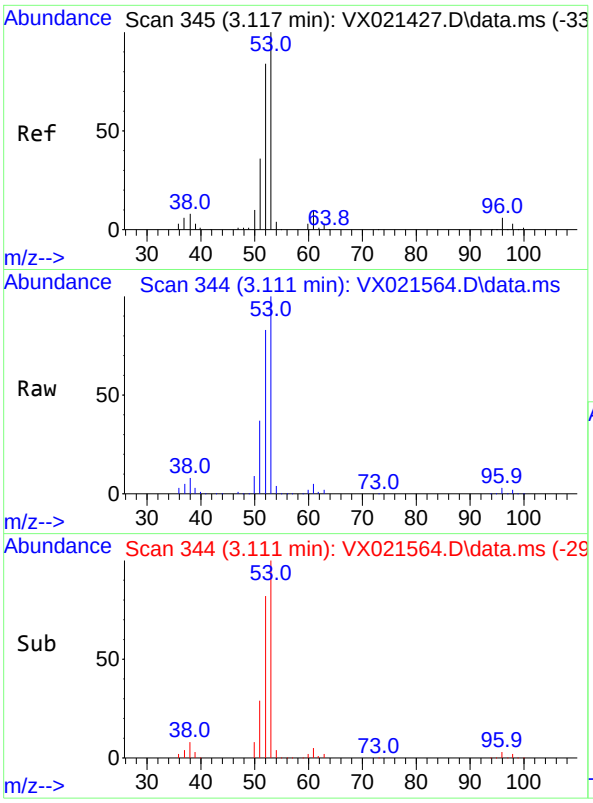
Tgt Ion: 41 Resp: 88047

Ion	Ratio	Lower	Upper
41	100		
39	73.1	51.6	77.4
76	29.9	30.5	45.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

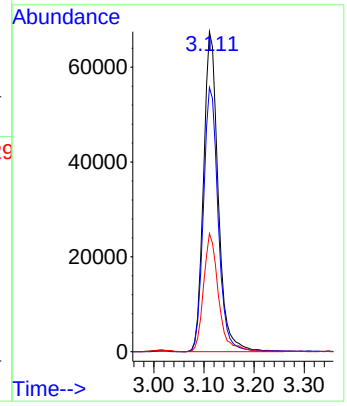
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

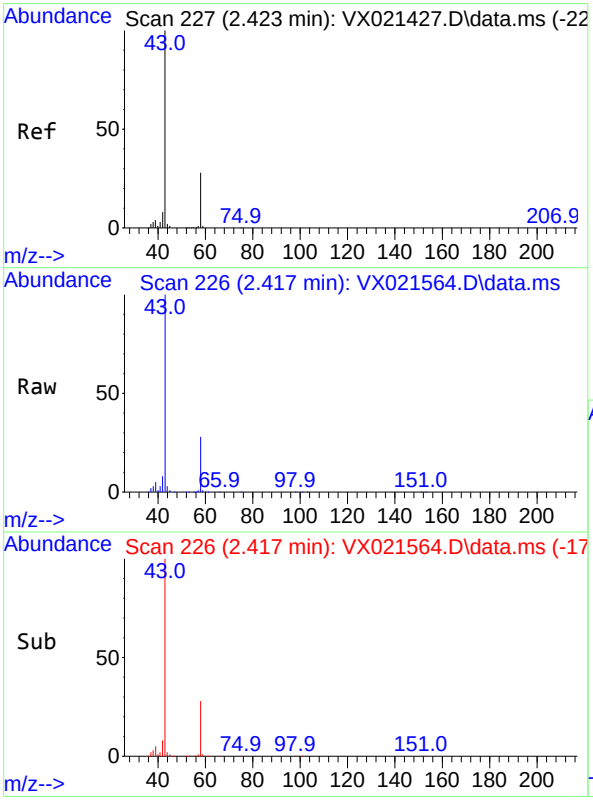


#15
Acrylonitrile
Concen: 221.98 ug/l
RT: 3.111 min Scan# 344
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 53 Resp: 137012

Ion	Ratio	Lower	Upper
53	100		
52	83.1	65.3	97.9
51	37.8	28.2	42.2

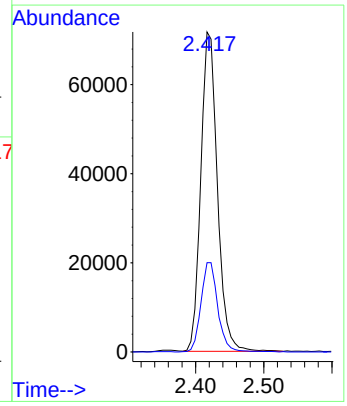




#16
Acetone
Concen: 203.27 ug/l
RT: 2.417 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

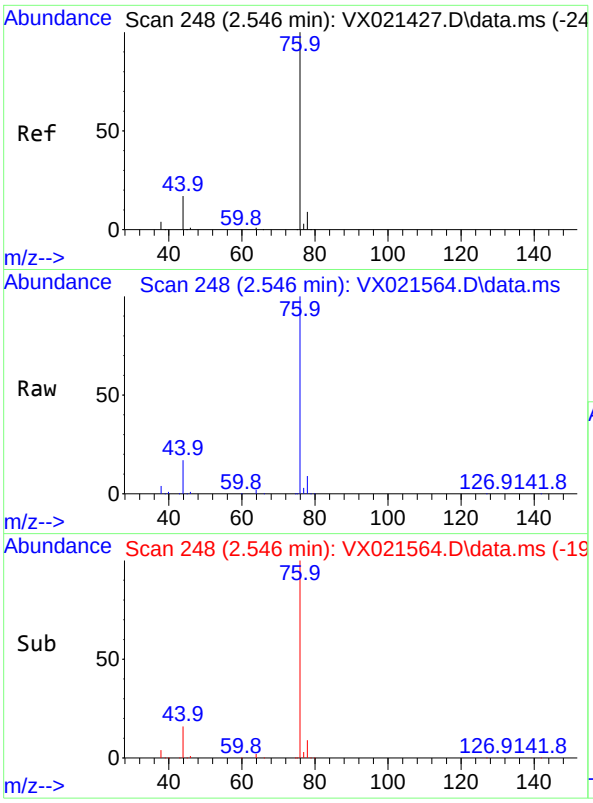
Tgt Ion: 43 Resp: 120744

Ion	Ratio	Lower	Upper
43	100		
58	27.9	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

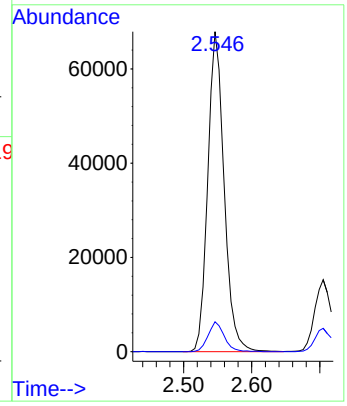
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

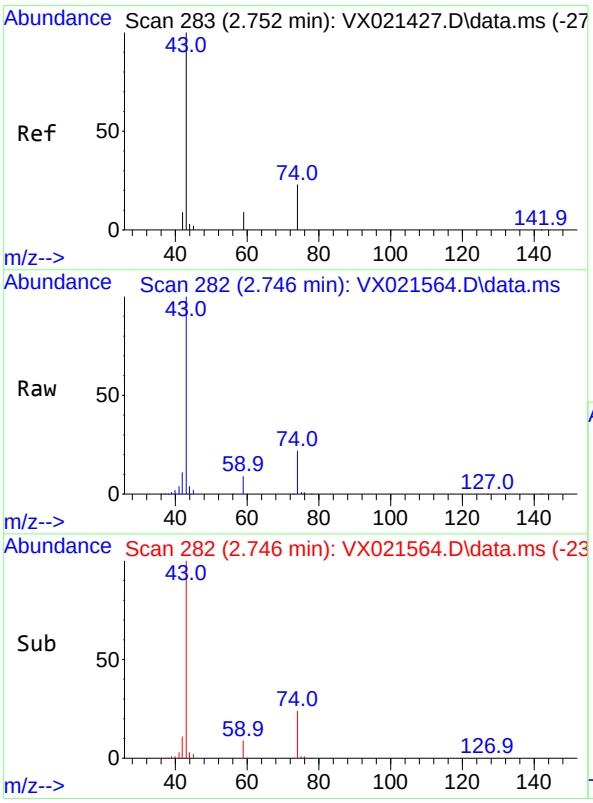


#17
Carbon Disulfide
Concen: 42.31 ug/l
RT: 2.546 min Scan# 248
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 76 Resp: 113047

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8

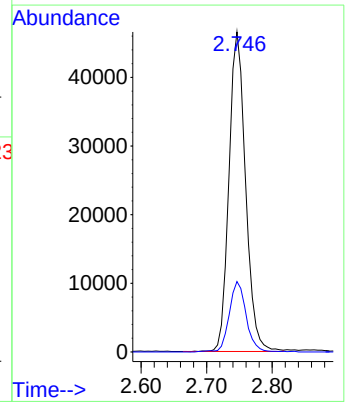




#18
Methyl Acetate
Concen: 47.60 ug/l
RT: 2.746 min Scan# 282
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

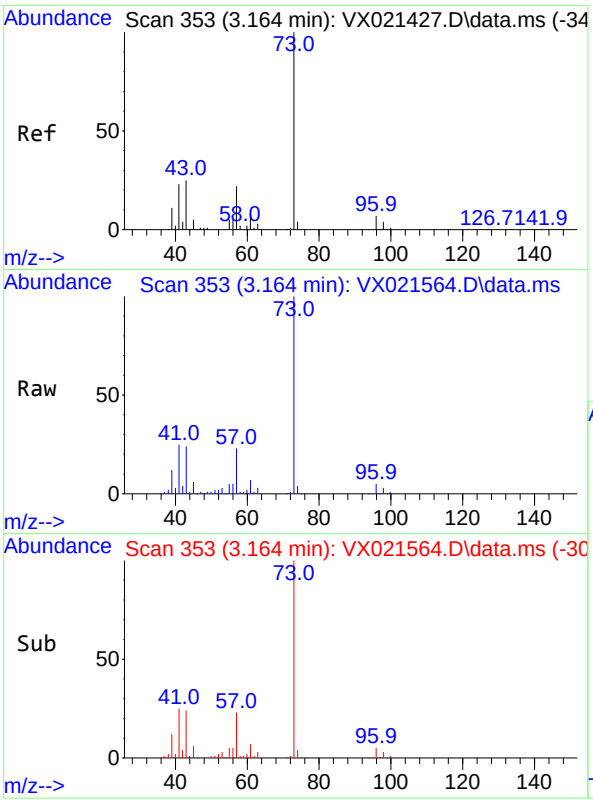
Tgt Ion: 43 Resp: 81681

Ion	Ratio	Lower	Upper
43	100		
74	22.6	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

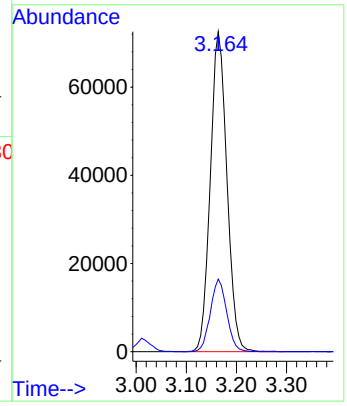
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

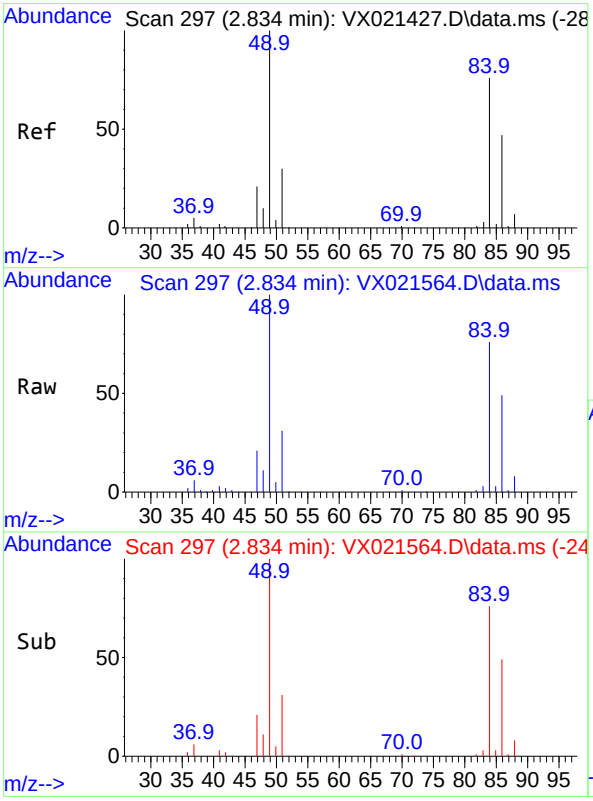


#19
Methyl tert-butyl Ether
Concen: 47.00 ug/l
RT: 3.164 min Scan# 353
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 73 Resp: 166998

Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.1	25.7

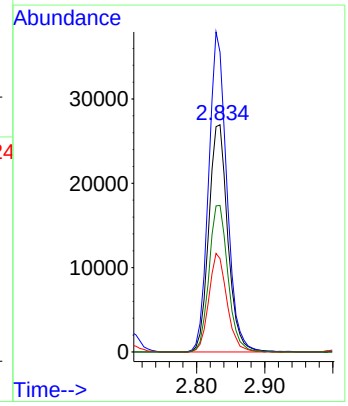




#20
Methylene Chloride
Concen: 45.13 ug/l
RT: 2.834 min Scan# 297
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

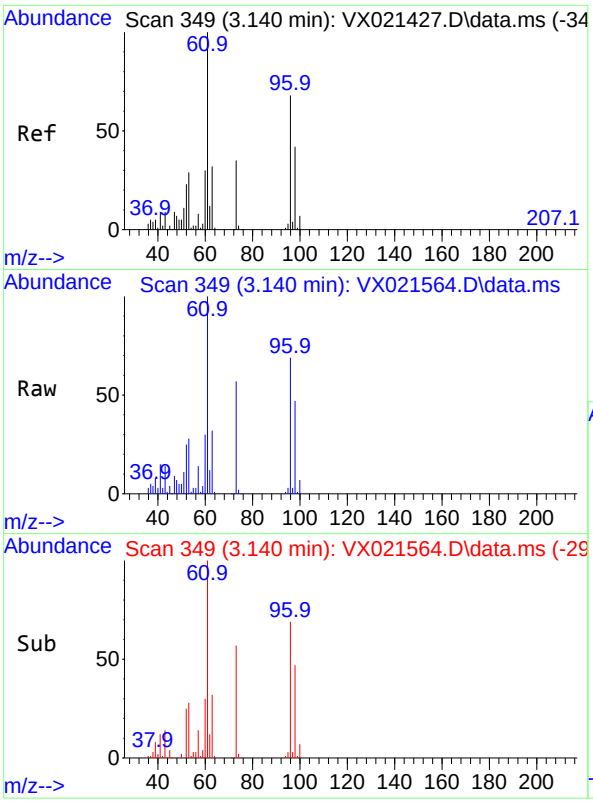
Tgt Ion: 84 Resp: 52311

Ion	Ratio	Lower	Upper
84	100		
49	131.8	88.6	132.8
51	41.0	27.0	40.6#
86	64.5	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

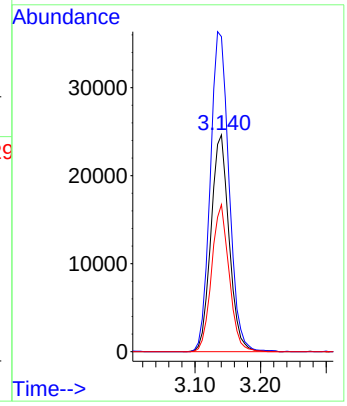
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

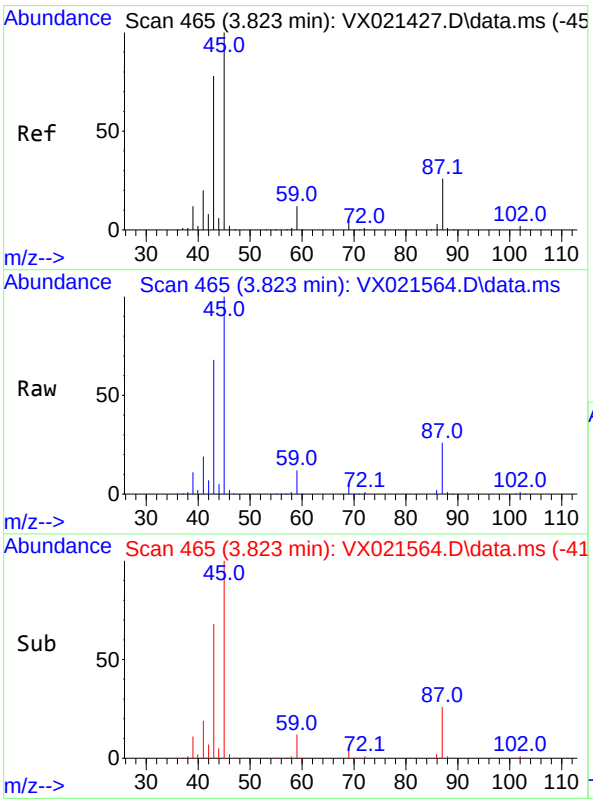


#21
trans-1,2-Dichloroethene
Concen: 45.32 ug/l
RT: 3.140 min Scan# 349
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 96 Resp: 47366

Ion	Ratio	Lower	Upper
96	100		
61	145.4	107.7	161.5
98	67.8	50.4	75.6

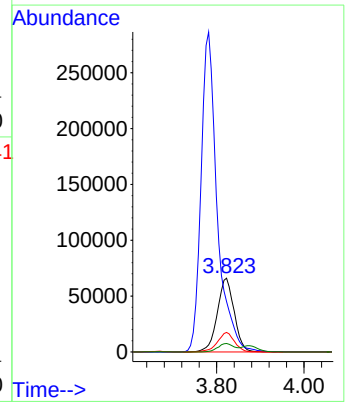




#22
Diisopropyl ether
Concen: 47.13 ug/l
RT: 3.823 min Scan# 465
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

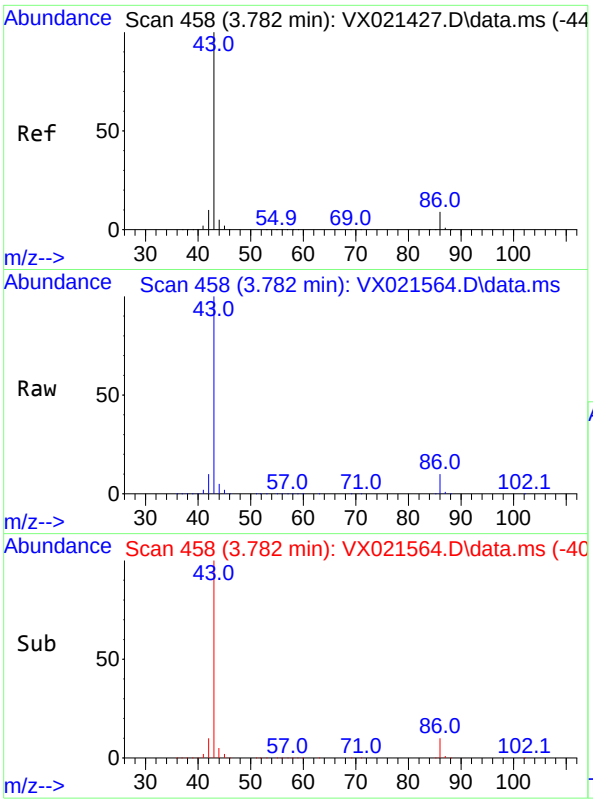
Tgt Ion: 45 Resp: 176843

Ion	Ratio	Lower	Upper
45	100		
43	68.2	58.0	87.0
87	26.5	25.4	38.0
59	11.5	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

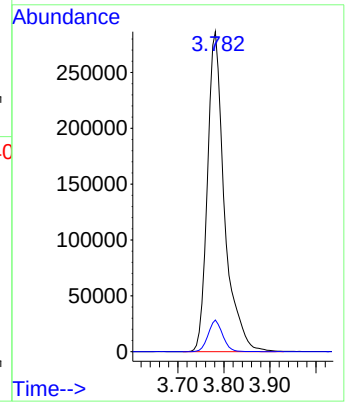
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

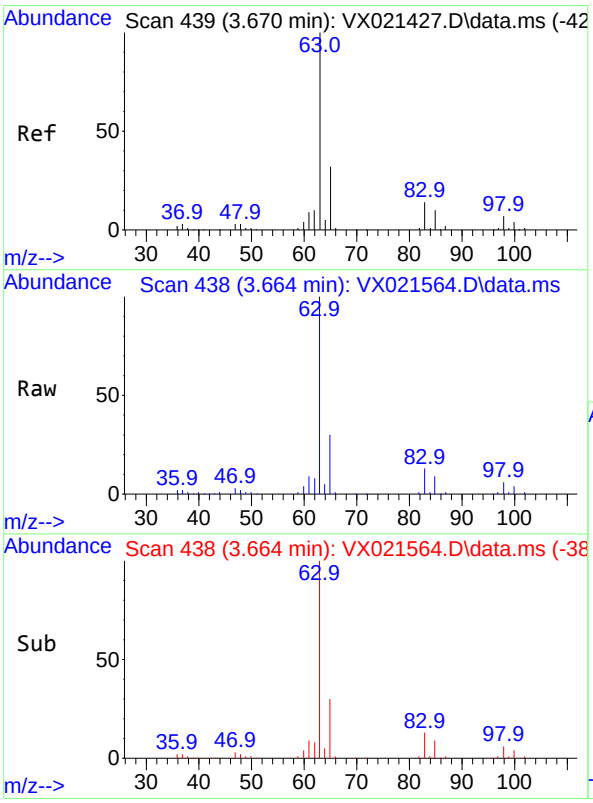


#23
Vinyl Acetate
Concen: 232.19 ug/l
RT: 3.782 min Scan# 458
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 43 Resp: 736949

Ion	Ratio	Lower	Upper
43	100		
86	9.9	9.9	14.9#

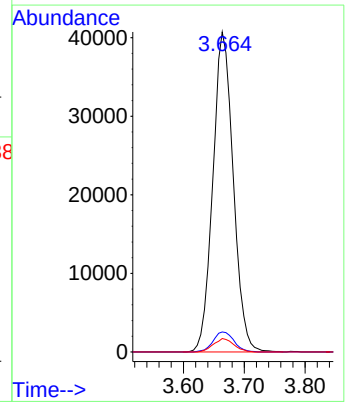




#24
1,1-Dichloroethane
Concen: 46.97 ug/l
RT: 3.664 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

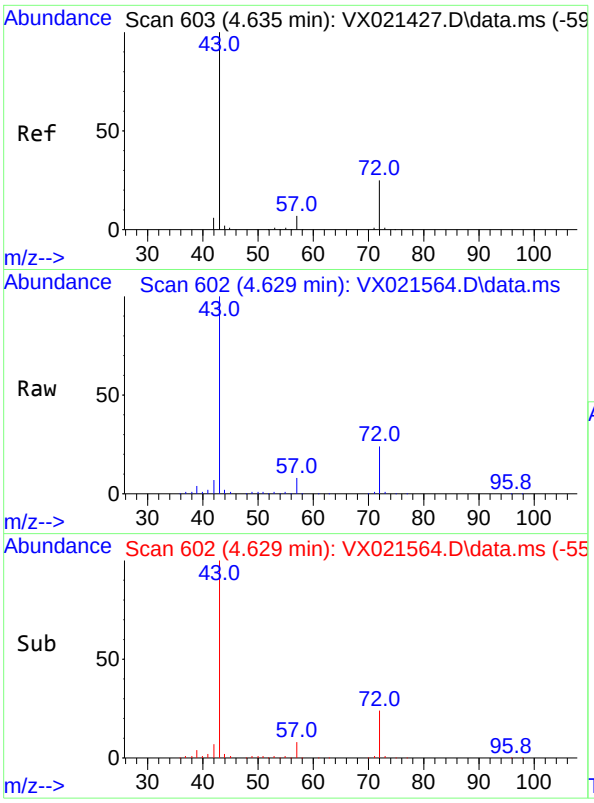
Tgt Ion: 63 Resp: 95018

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.8	11.2
100	4.2	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

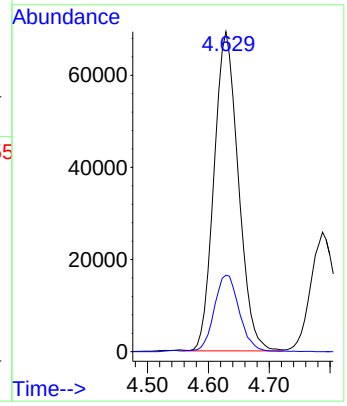
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

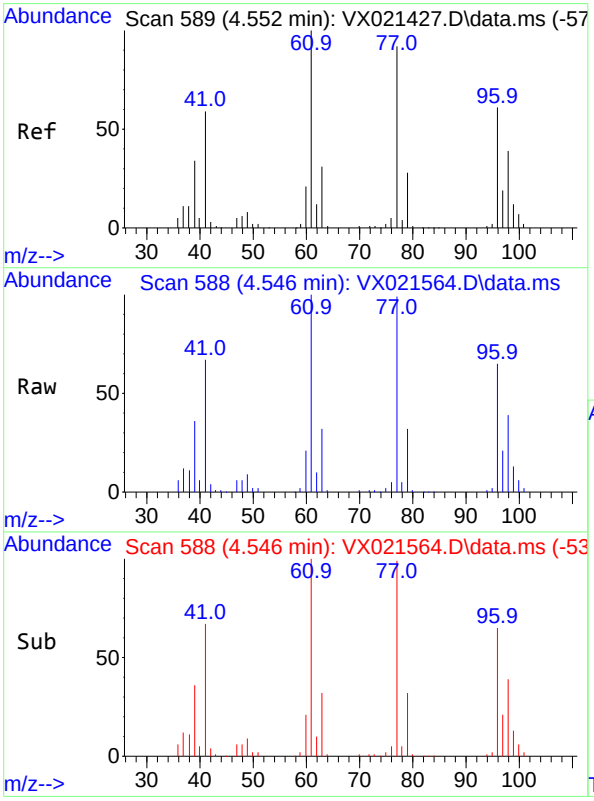


#25
2-Butanone
Concen: 213.45 ug/l
RT: 4.629 min Scan# 602
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 43 Resp: 192197

Ion	Ratio	Lower	Upper
43	100		
72	23.7	23.7	35.5

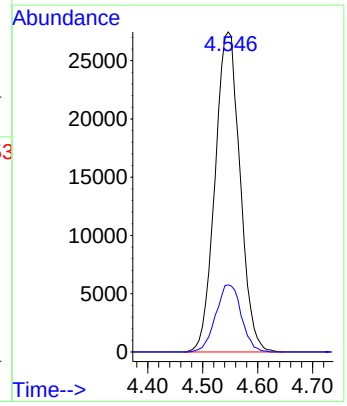




#26
2,2-Dichloropropane
Concen: 49.47 ug/l
RT: 4.546 min Scan# 588
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

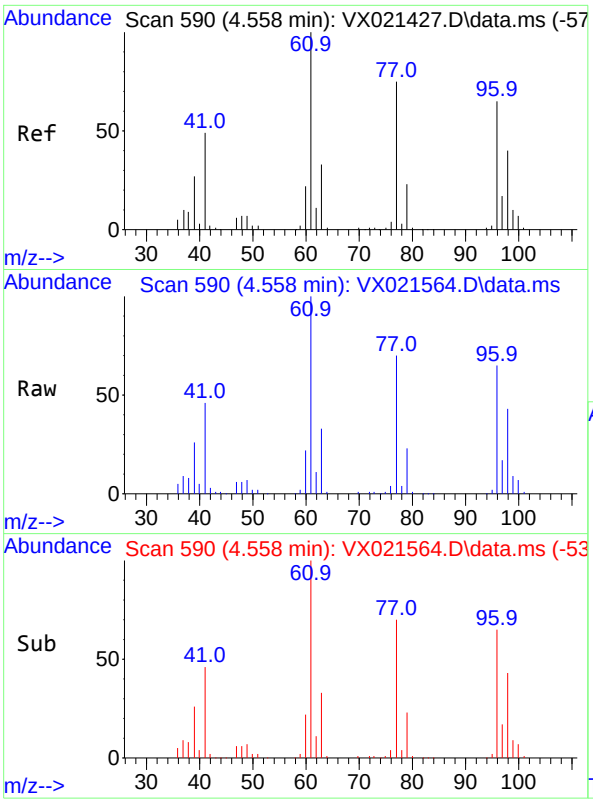
Tgt Ion: 77 Resp: 86689

Ion	Ratio	Lower	Upper
77	100		
97	21.5	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

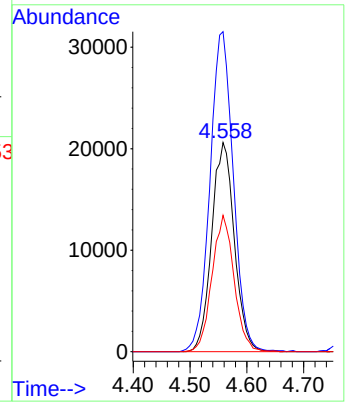
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

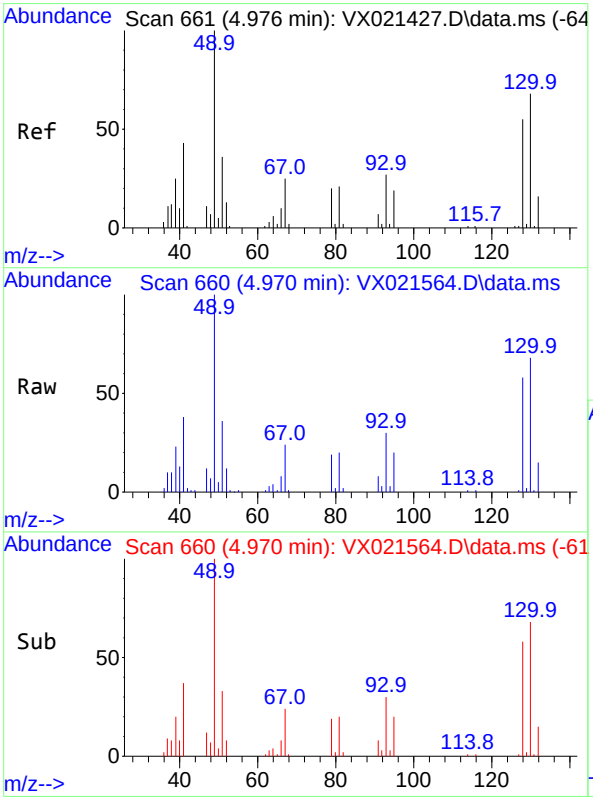


#27
cis-1,2-Dichloroethene
Concen: 47.04 ug/l
RT: 4.558 min Scan# 590
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 96 Resp: 57088

Ion	Ratio	Lower	Upper
96	100		
61	157.5	0.0	285.6
98	63.6	0.0	129.6

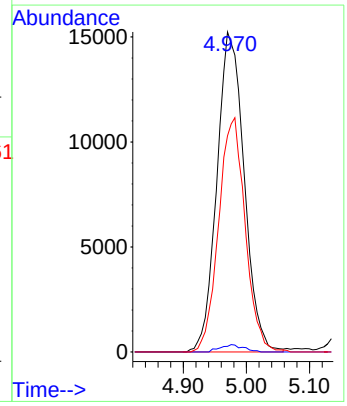




#28
Bromochloromethane
Concen: 45.14 ug/l
RT: 4.970 min Scan# 660
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

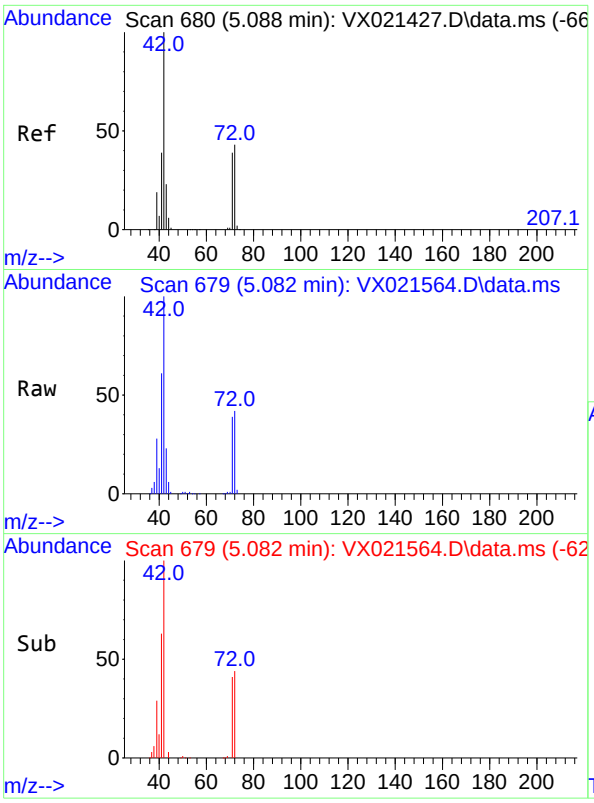
Tgt Ion: 49 Resp: 45715

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	71.4	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

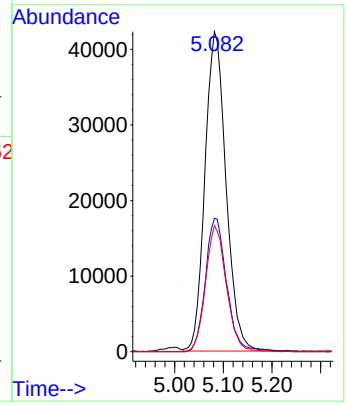
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

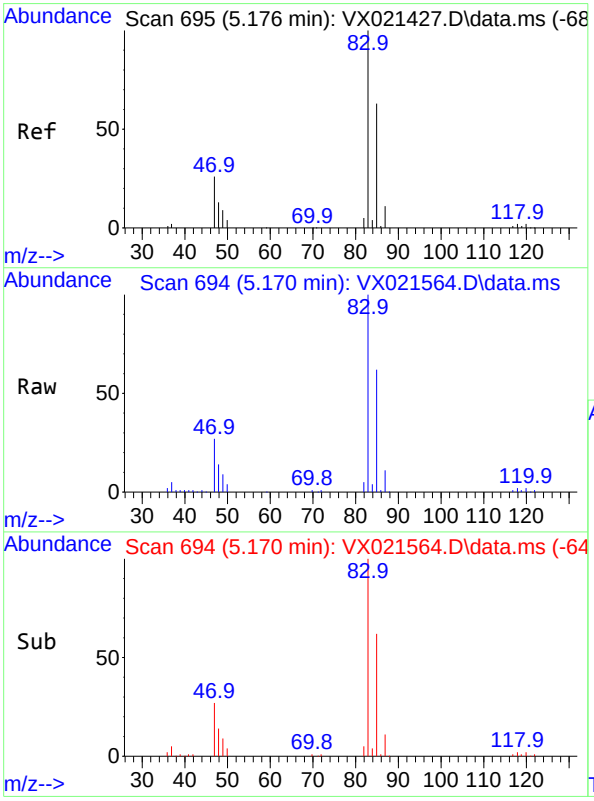


#29
Tetrahydrofuran
Concen: 217.11 ug/l
RT: 5.082 min Scan# 679
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 42 Resp: 126753

Ion	Ratio	Lower	Upper
42	100		
72	42.3	41.7	62.5
71	38.8	38.4	57.6

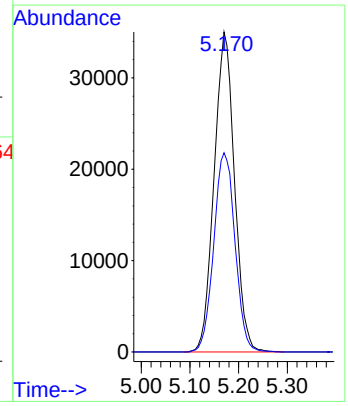




#30
Chloroform
Concen: 47.65 ug/l
RT: 5.170 min Scan# 694
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

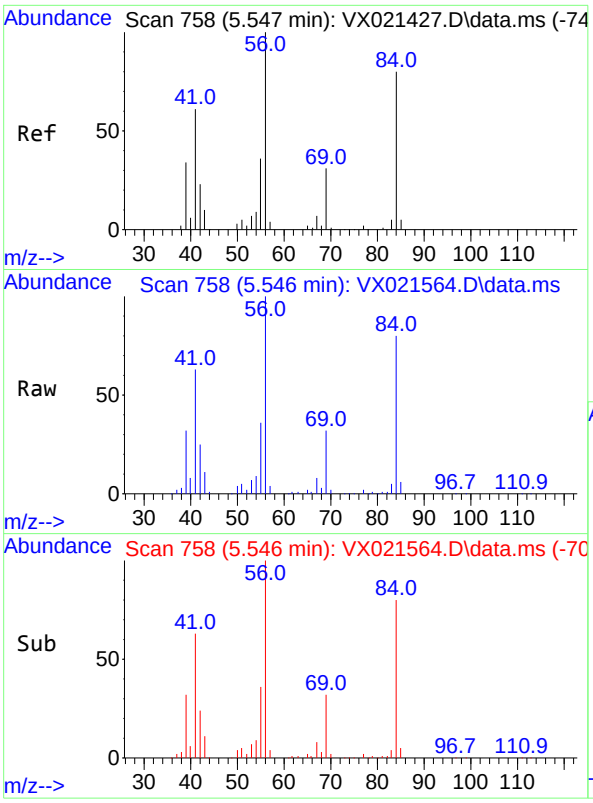
Tgt Ion: 83 Resp: 101736

Ion	Ratio	Lower	Upper
83	100		
85	62.3	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

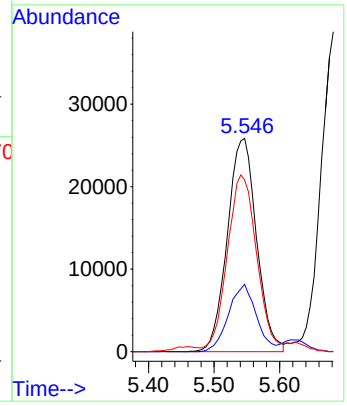
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

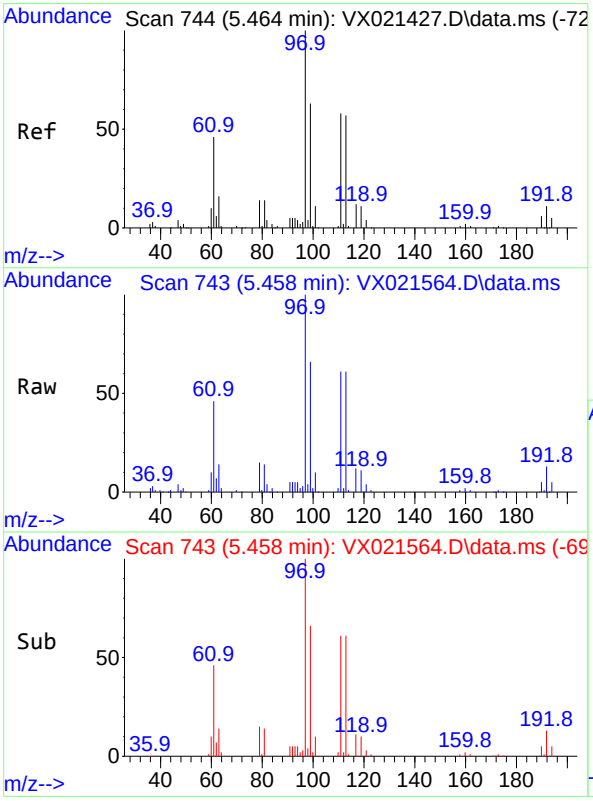


#31
Cyclohexane
Concen: 46.28 ug/l
RT: 5.546 min Scan# 758
Delta R.T. -0.001 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 56 Resp: 79944

Ion	Ratio	Lower	Upper
56	100		
69	31.6	25.3	37.9
84	78.5	71.4	107.0

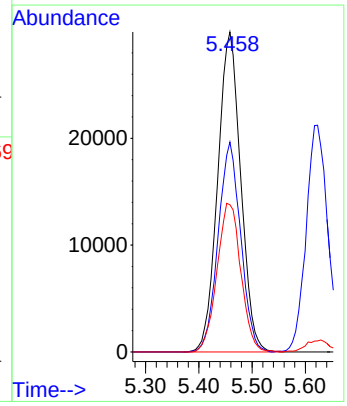




#32
1,1,1-Trichloroethane
Concen: 47.42 ug/l
RT: 5.458 min Scan# 743
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

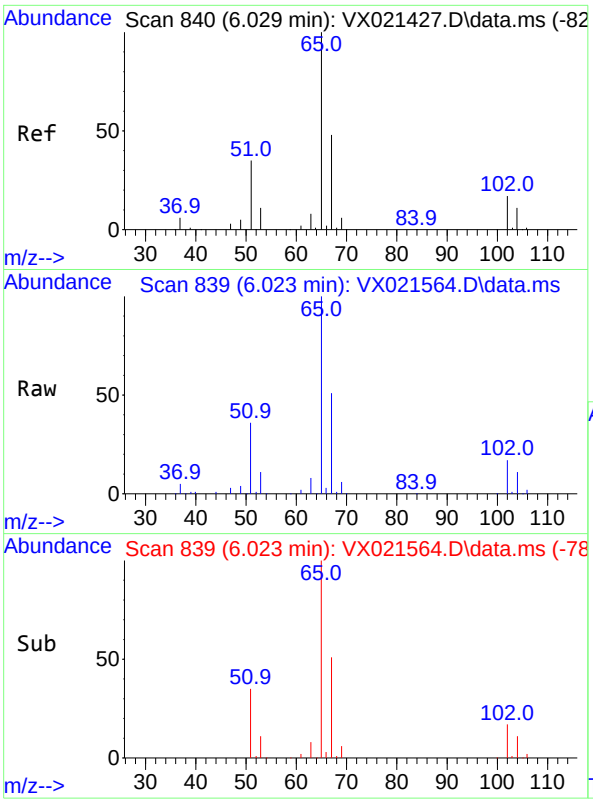
Tgt Ion: 97 Resp: 89724

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.5	77.3
61	48.2	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

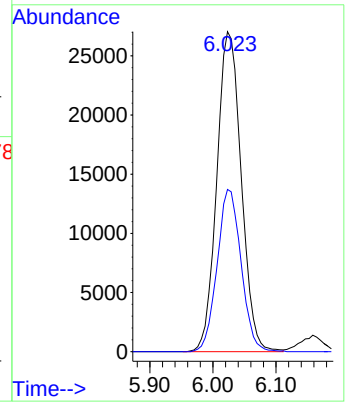
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

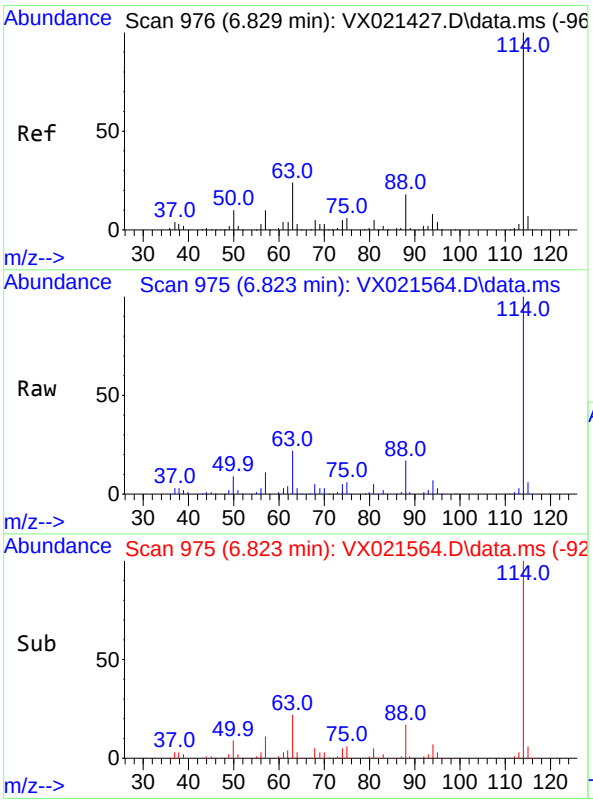


#33
1,2-Dichloroethane-d4
Concen: 46.22 ug/l
RT: 6.023 min Scan# 839
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 65 Resp: 72611

Ion	Ratio	Lower	Upper
65	100		
67	49.8	0.0	105.4

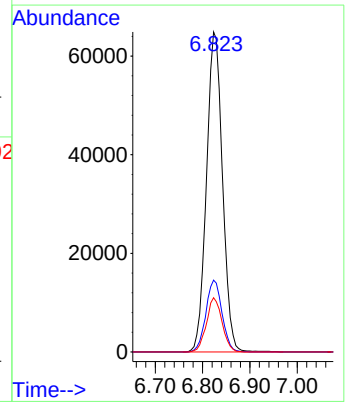




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.823 min Scan# 975
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

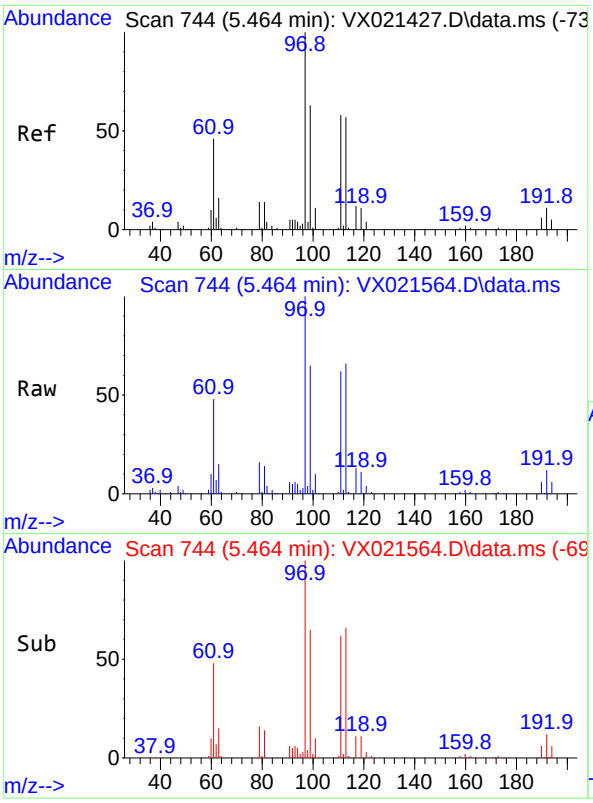
Tgt Ion:114 Resp: 152632

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	40.8
88	17.0	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

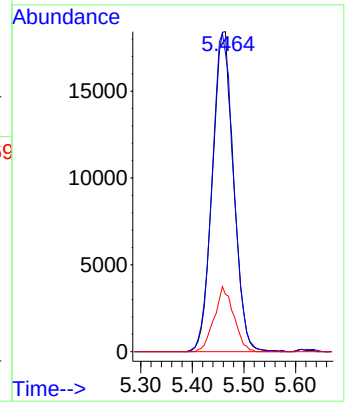
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

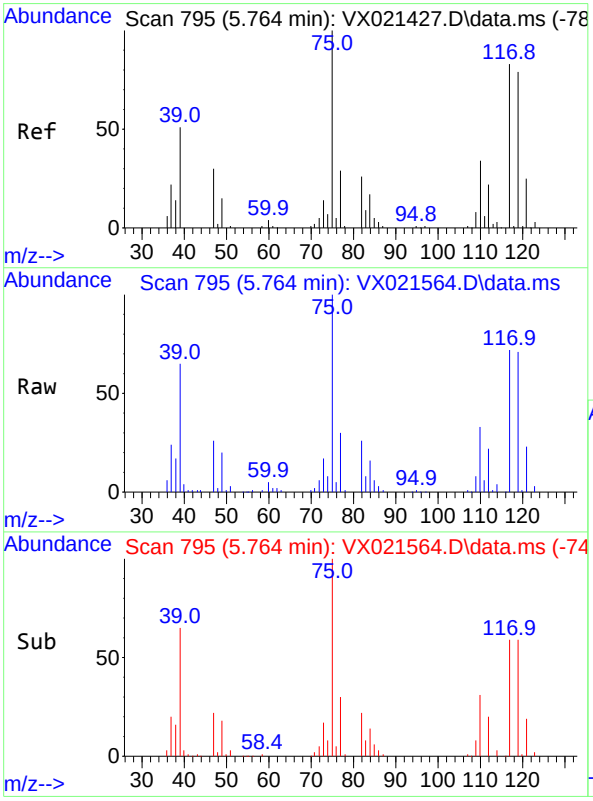


#35
Dibromofluoromethane
Concen: 48.31 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:113 Resp: 52380

Ion	Ratio	Lower	Upper
113	100		
111	100.6	81.9	122.9
192	18.7	16.7	25.1

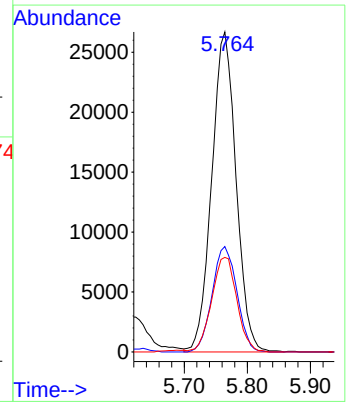




#36
1,1-Dichloropropene
Concen: 47.81 ug/l
RT: 5.764 min Scan# 795
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

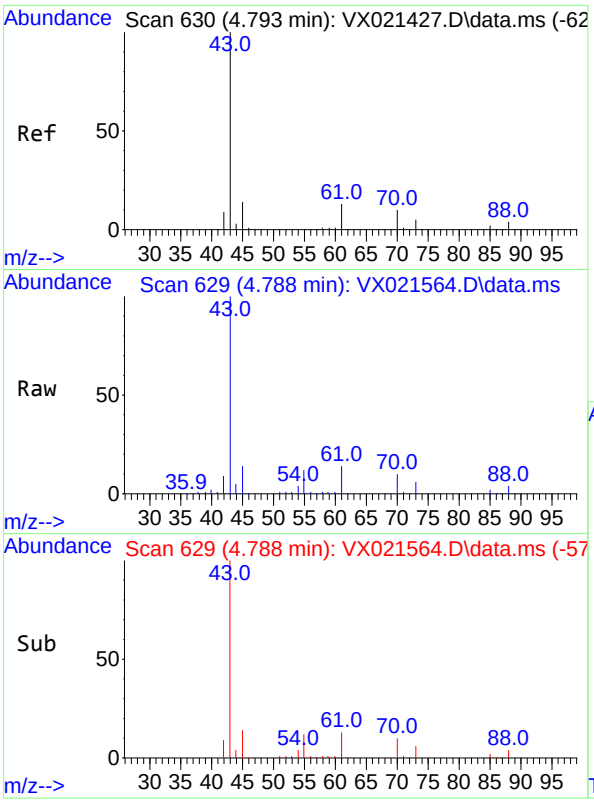
Tgt Ion: 75 Resp: 71496

Ion	Ratio	Lower	Upper
75	100		
110	33.5	18.1	54.4
77	30.6	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

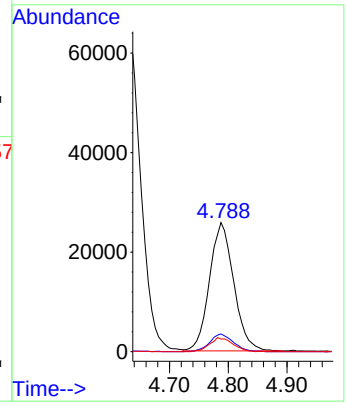
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

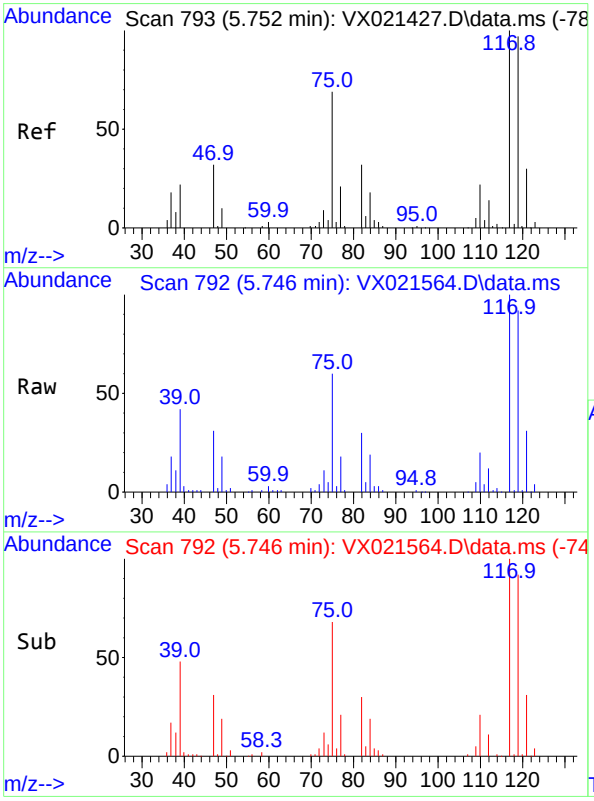


#37
Ethyl Acetate
Concen: 42.81 ug/l
RT: 4.788 min Scan# 629
Delta R.T. -0.005 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 43 Resp: 74023

Ion	Ratio	Lower	Upper
43	100		
61	13.5	12.8	19.2
70	10.4	10.5	15.7#

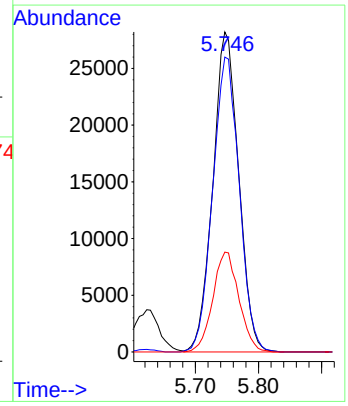




#38
Carbon Tetrachloride
Concen: 49.79 ug/l
RT: 5.746 min Scan# 792
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

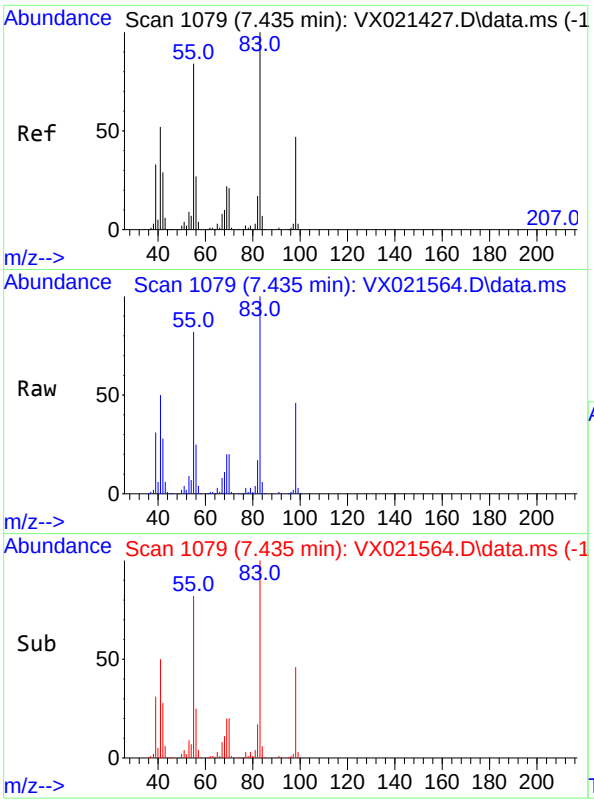
Tgt Ion:117 Resp: 80024

Ion	Ratio	Lower	Upper
117	100		
119	92.2	76.2	114.2
121	31.2	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

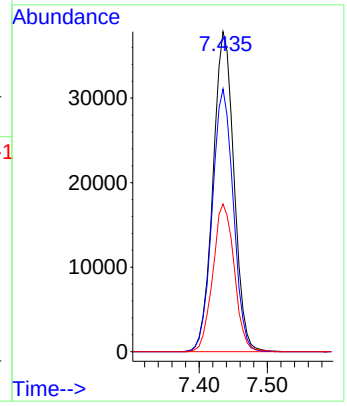
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

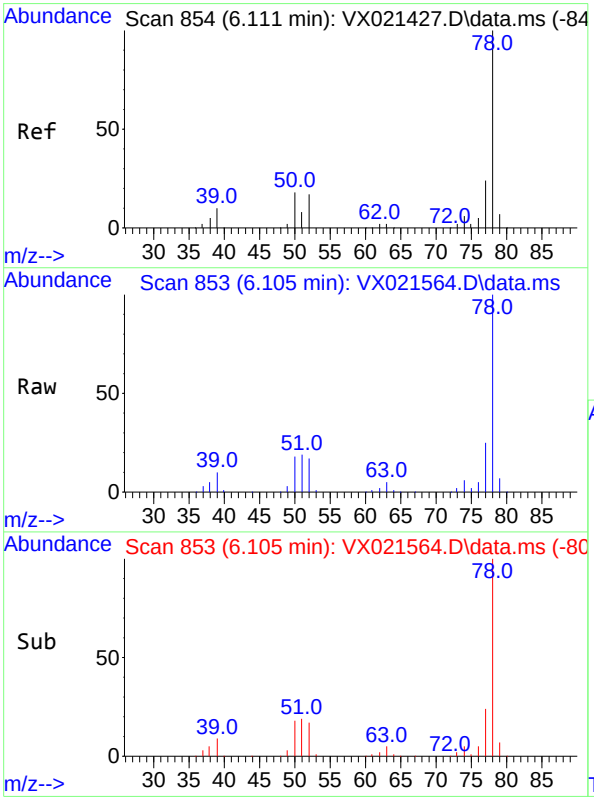


#39
Methylcyclohexane
Concen: 48.84 ug/l
RT: 7.435 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 83 Resp: 80970

Ion	Ratio	Lower	Upper
83	100		
55	82.1	58.9	88.3
98	46.1	38.1	57.1

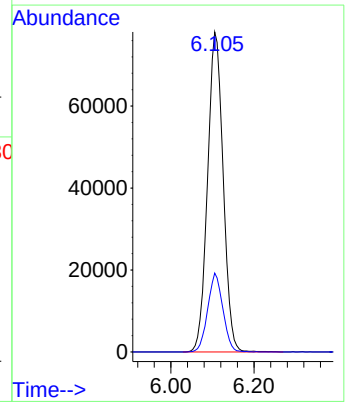




#40
Benzene
Concen: 47.95 ug/l
RT: 6.105 min Scan# 853
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

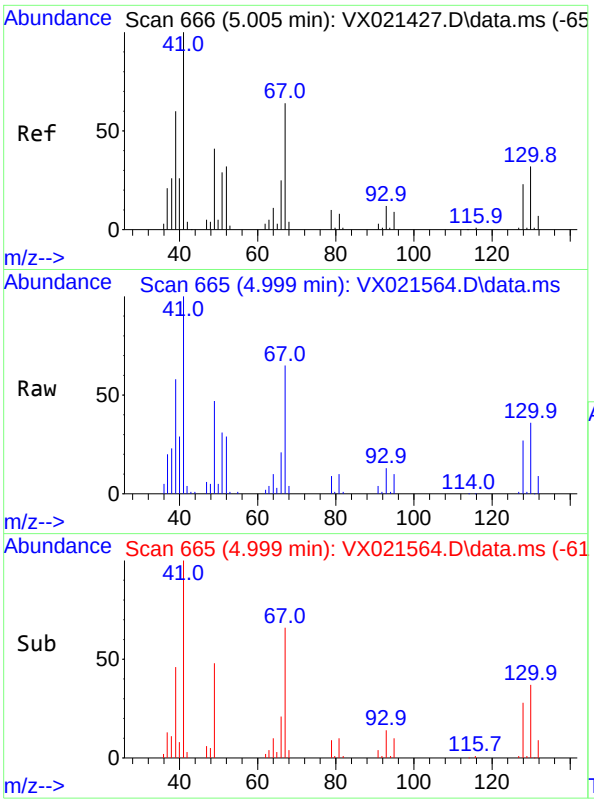
Tgt Ion: 78 Resp: 203627

Ion	Ratio	Lower	Upper
78	100		
77	24.6	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

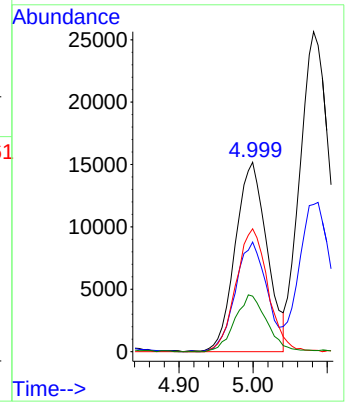
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

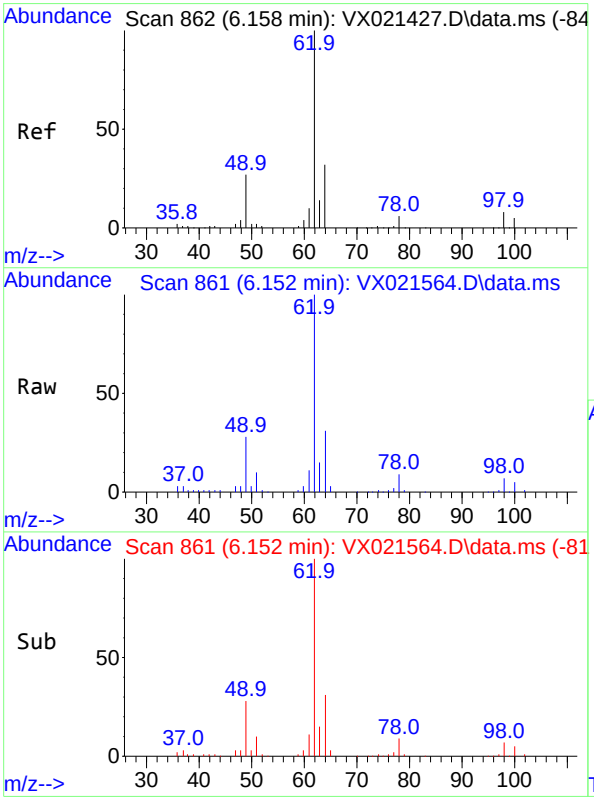


#41
Methacrylonitrile
Concen: 45.00 ug/l
RT: 4.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 41 Resp: 45134

Ion	Ratio	Lower	Upper
41	100		
39	56.9	42.5	63.7
67	65.3	65.0	97.6
52	30.4	25.3	37.9

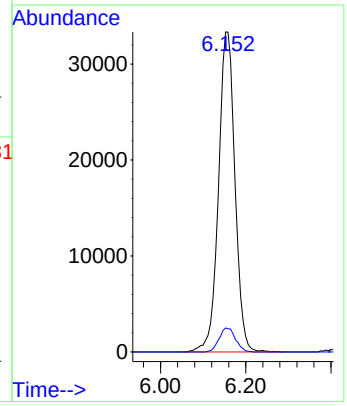




#42
1,2-Dichloroethane
Concen: 48.57 ug/l
RT: 6.152 min Scan# 861
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

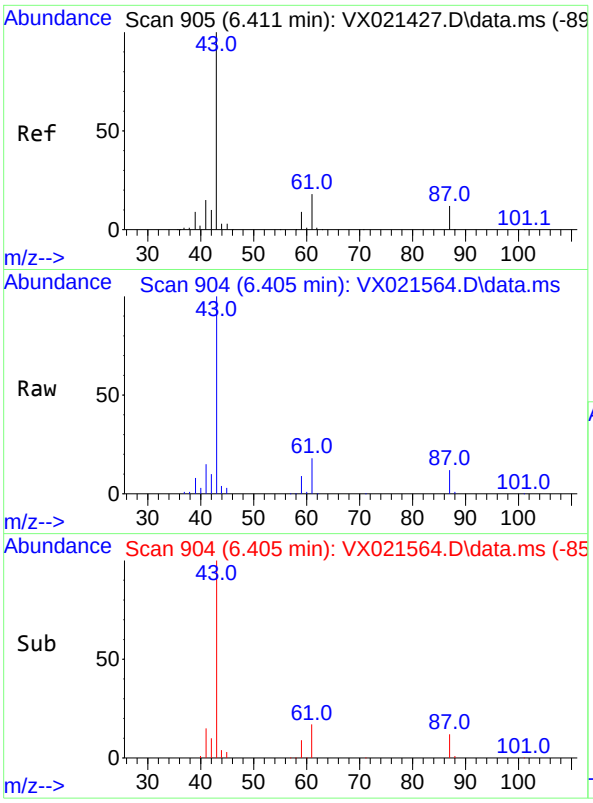
Tgt Ion: 62 Resp: 89429

Ion	Ratio	Lower	Upper
62	100		
98	7.5	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

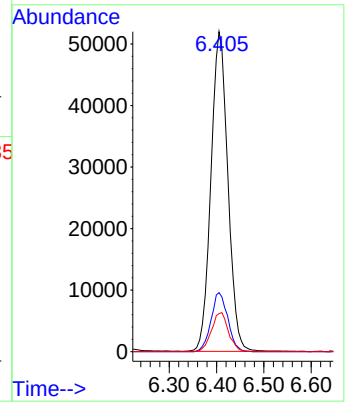
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

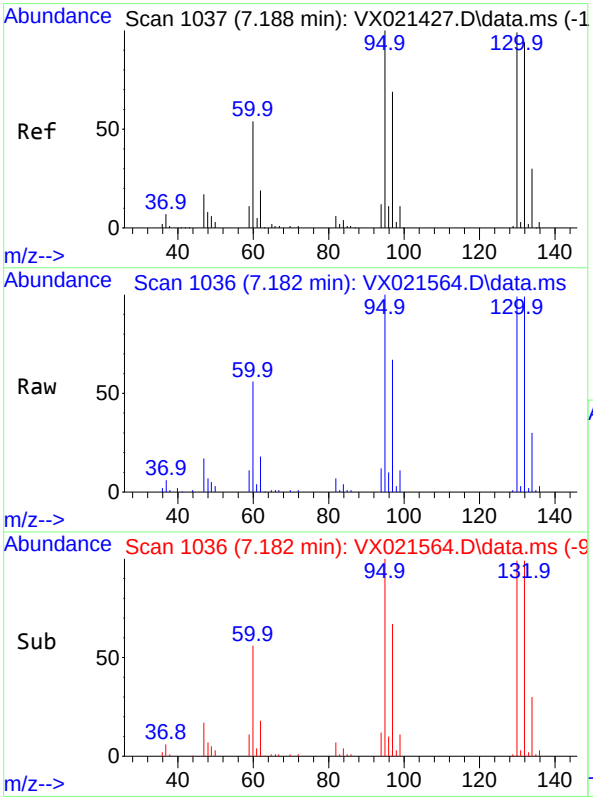


#43
Isopropyl Acetate
Concen: 45.82 ug/l
RT: 6.405 min Scan# 904
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 43 Resp: 128646

Ion	Ratio	Lower	Upper
43	100		
61	18.3	18.2	27.4
87	12.3	12.5	18.7#

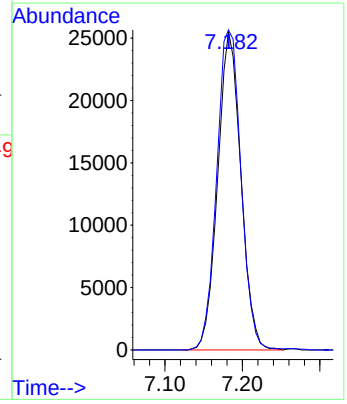




#44
Trichloroethene
Concen: 47.37 ug/l
RT: 7.182 min Scan# 1036
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

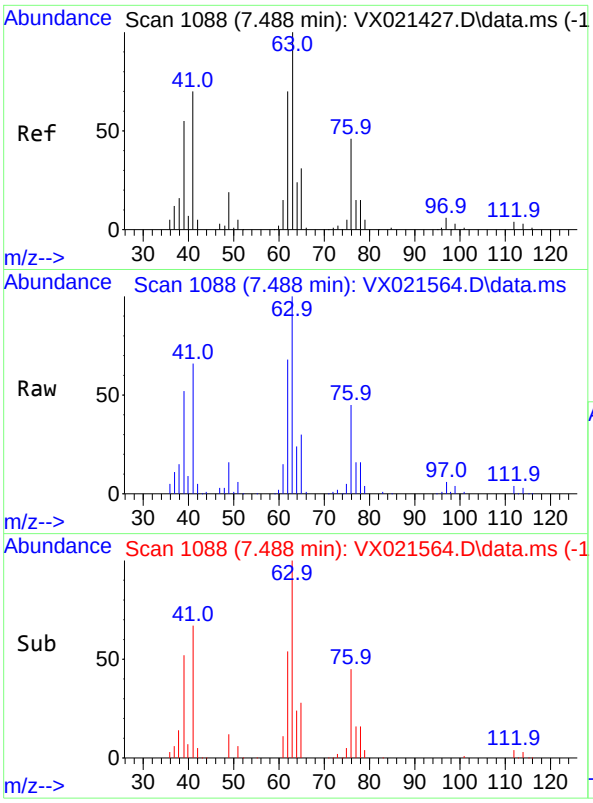
Tgt Ion:130 Resp: 53084

Ion	Ratio	Lower	Upper
130	100		
95	100.5	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

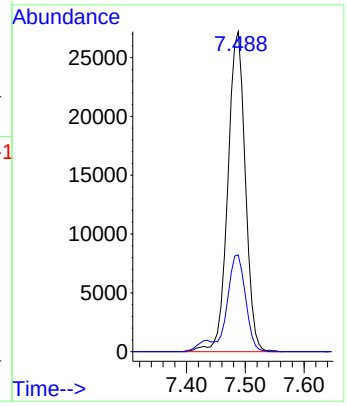
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

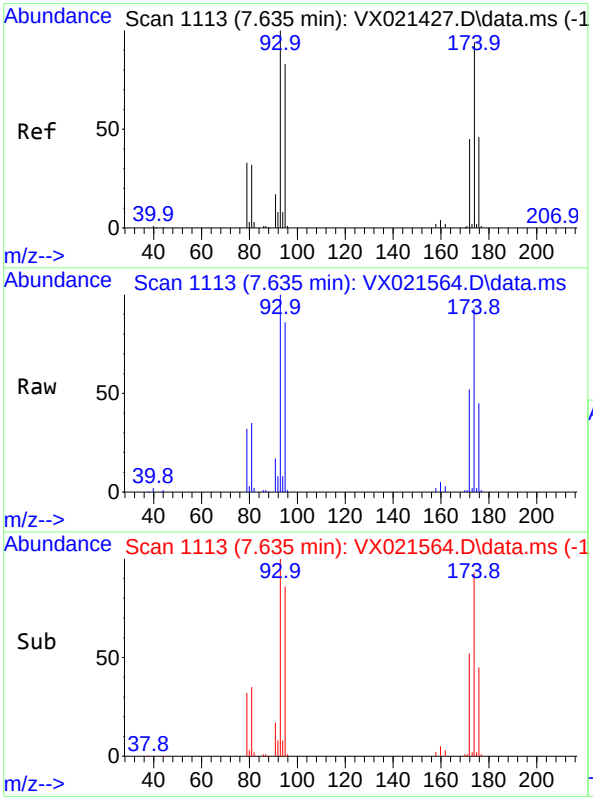


#45
1,2-Dichloropropane
Concen: 48.87 ug/l
RT: 7.488 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 63 Resp: 56224

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.7	38.5

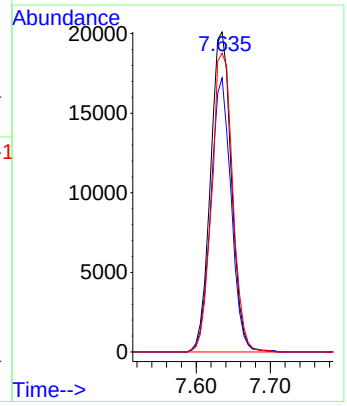




#46
Dibromomethane
Concen: 47.10 ug/l
RT: 7.635 min Scan# 1113
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

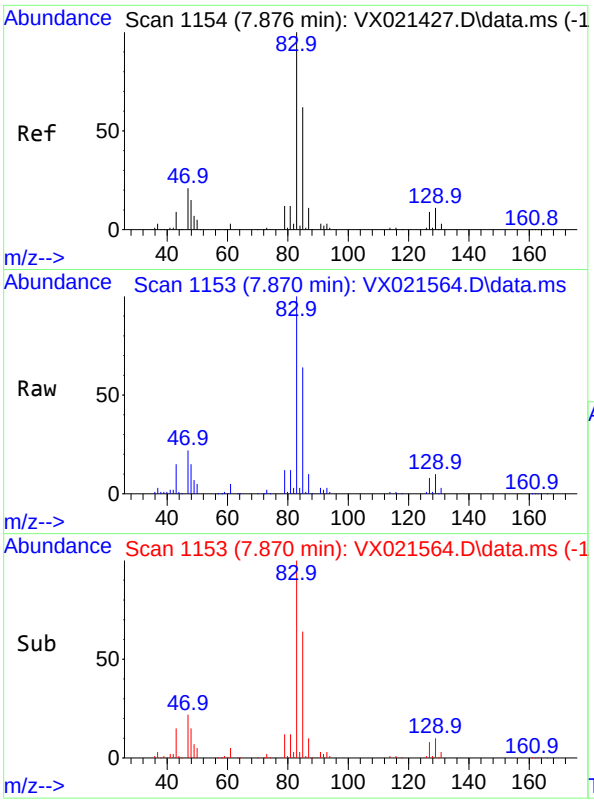
Tgt Ion: 93 Resp: 39497

Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.8	100.2
174	93.5	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

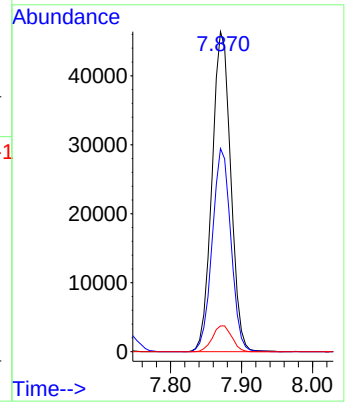
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

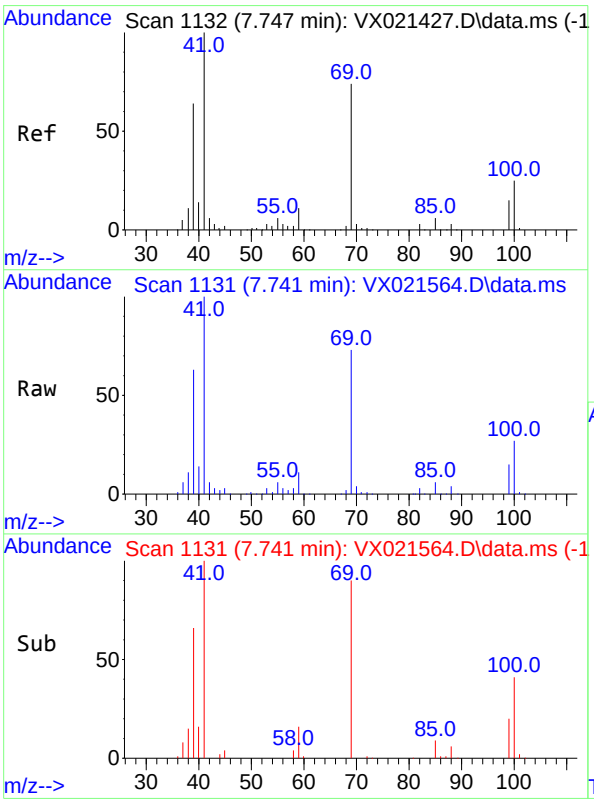


#47
Bromodichloromethane
Concen: 49.82 ug/l
RT: 7.870 min Scan# 1153
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 83 Resp: 85017

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.4	77.0
127	8.0	6.8	10.2

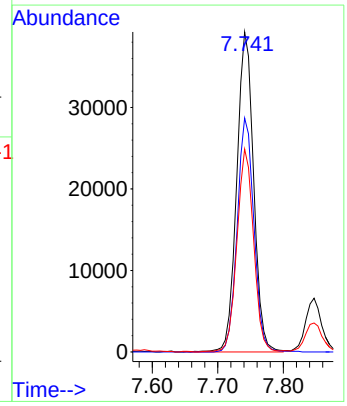




#48
Methyl methacrylate
Concen: 46.97 ug/l
RT: 7.741 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

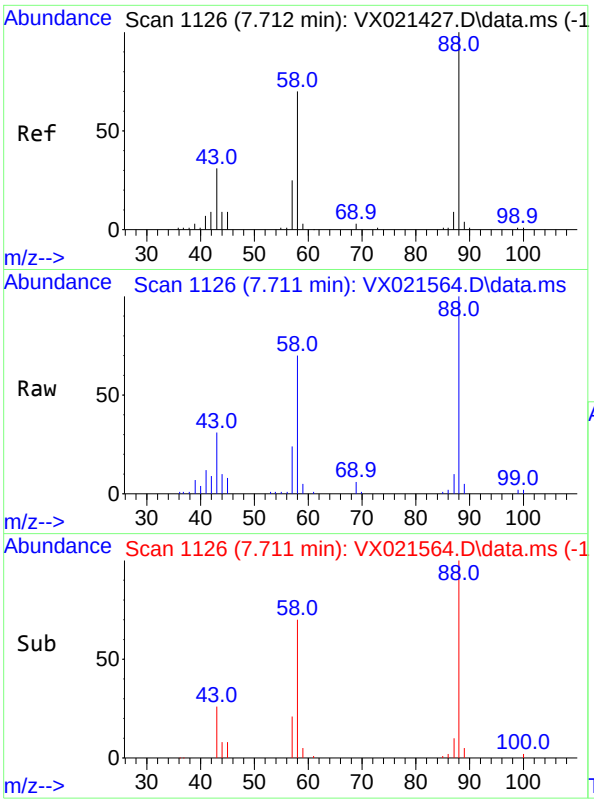
Tgt Ion: 41 Resp: 70354

Ion	Ratio	Lower	Upper
41	100		
69	72.4	76.0	114.0#
39	62.9	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

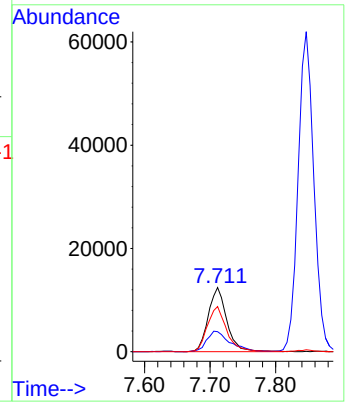
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

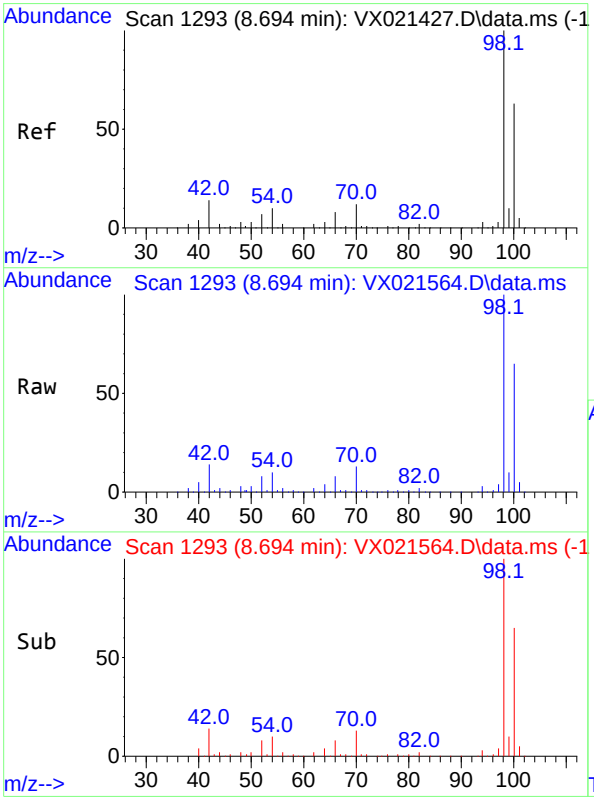


#49
1,4-Dioxane
Concen: 906.57 ug/l
RT: 7.711 min Scan# 1126
Delta R.T. -0.001 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 88 Resp: 24310

Ion	Ratio	Lower	Upper
88	100		
43	40.5	23.2	34.8#
58	74.0	55.0	82.4

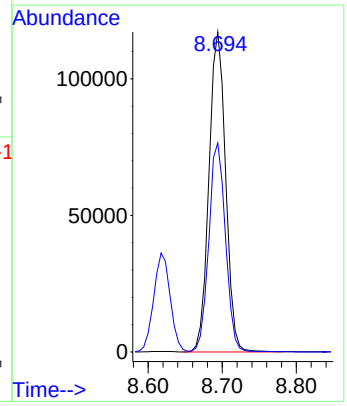




#50
Toluene-d8
Concen: 47.46 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

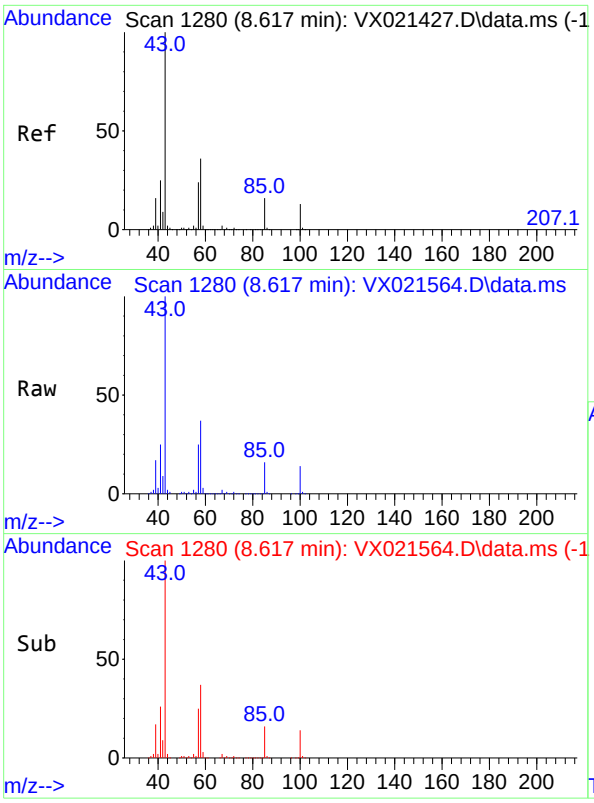
Tgt Ion: 98 Resp: 183345

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

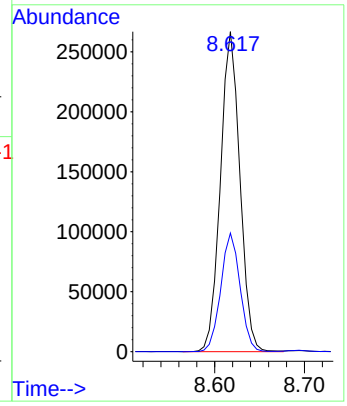
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

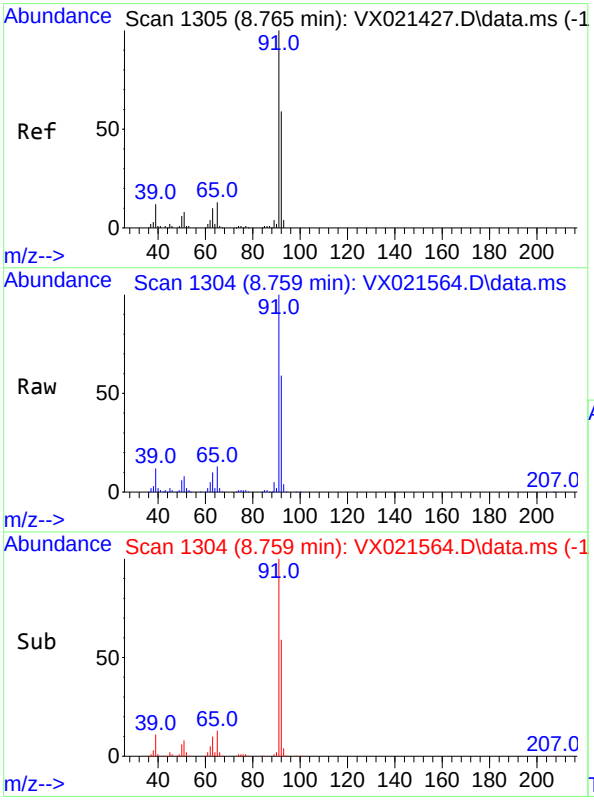


#51
4-Methyl-2-Pentanone
Concen: 233.08 ug/l
RT: 8.617 min Scan# 1280
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 43 Resp: 402542

Ion	Ratio	Lower	Upper
43	100		
58	36.8	35.4	53.0

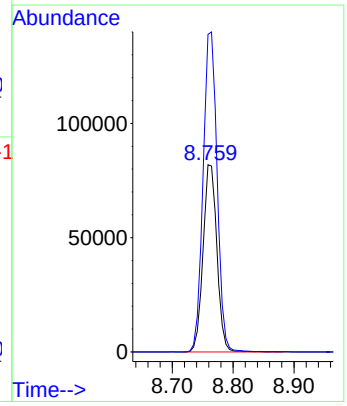




#52
Toluene
Concen: 49.33 ug/l
RT: 8.759 min Scan# 1304
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

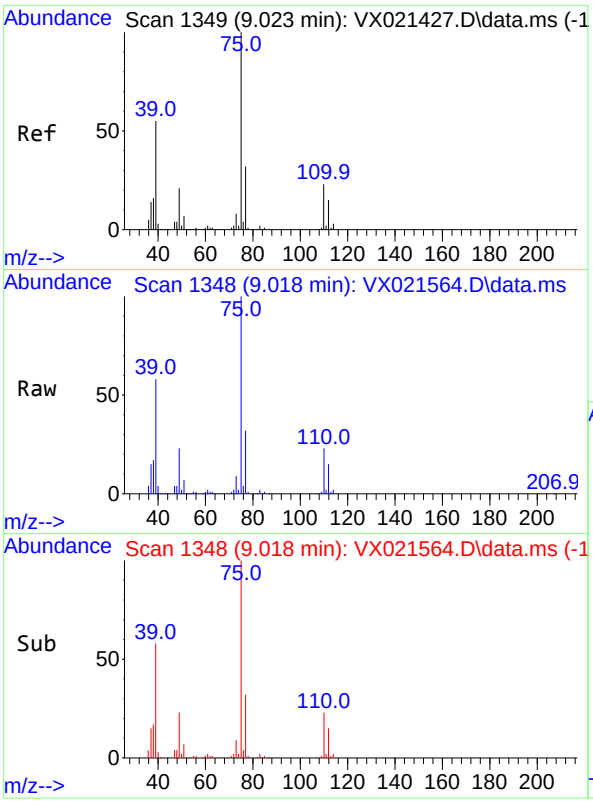
Tgt Ion: 92 Resp: 129409

Ion	Ratio	Lower	Upper
92	100		
91	173.5	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

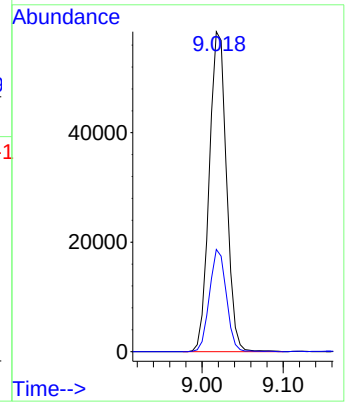
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

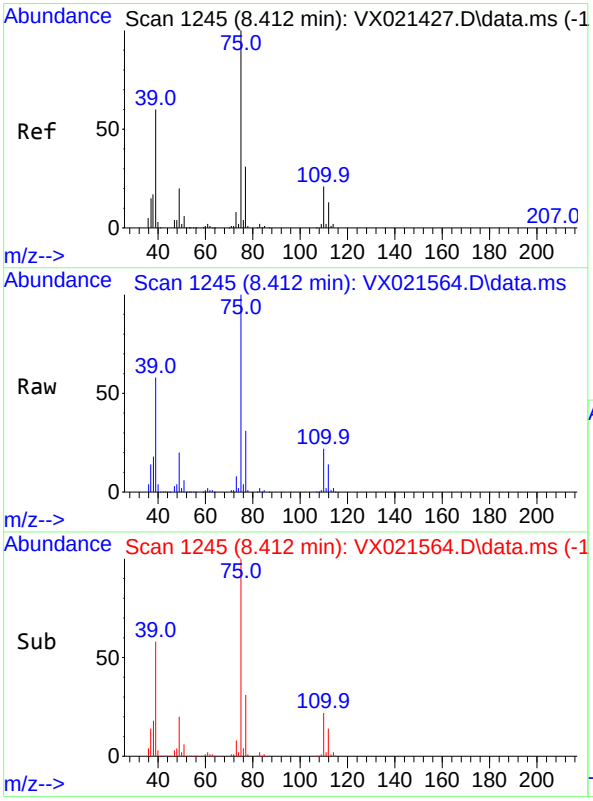


#53
t-1,3-Dichloropropene
Concen: 49.92 ug/l
RT: 9.018 min Scan# 1348
Delta R.T. -0.005 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 75 Resp: 86012

Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.9	37.3

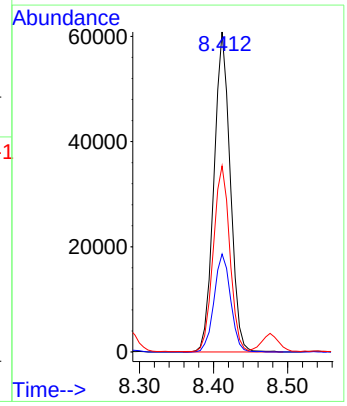




#54
cis-1,3-Dichloropropene
Concen: 50.63 ug/l
RT: 8.412 min Scan# 1245
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

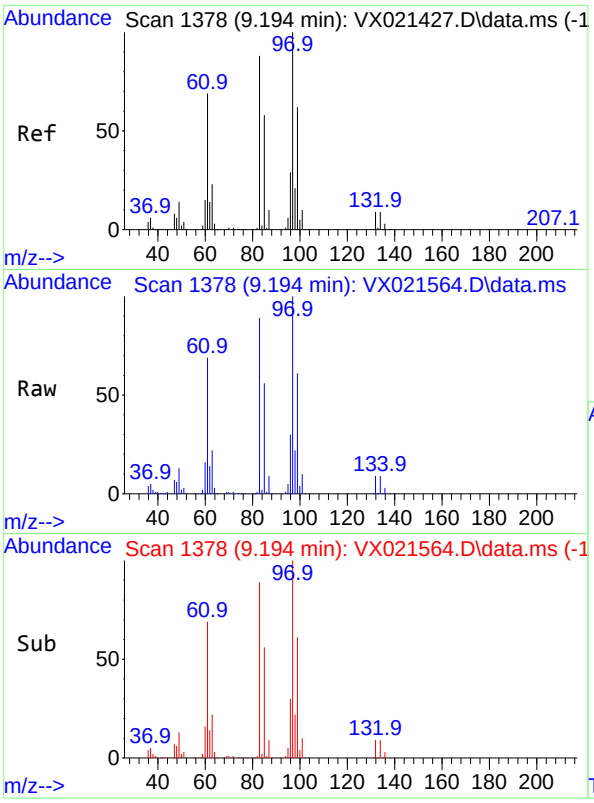
Tgt Ion: 75 Resp: 92832

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.7	38.5
39	58.1	35.1	52.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

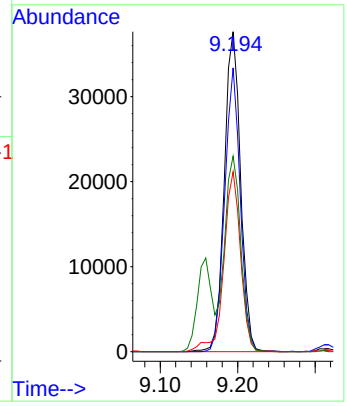
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

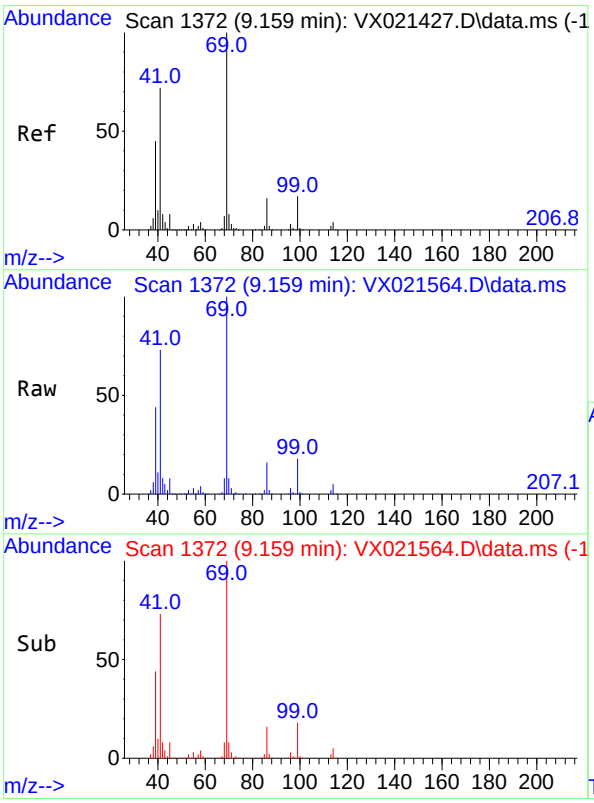


#55
1,1,2-Trichloroethane
Concen: 49.77 ug/l
RT: 9.194 min Scan# 1378
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 97 Resp: 55102

Ion	Ratio	Lower	Upper
97	100		
83	88.7	69.3	103.9
85	56.2	44.3	66.5
99	61.1	50.3	75.5

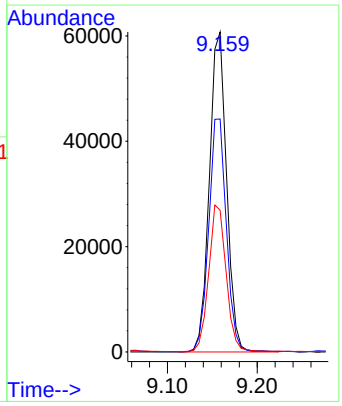




#56
Ethyl methacrylate
Concen: 43.63 ug/l
RT: 9.159 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

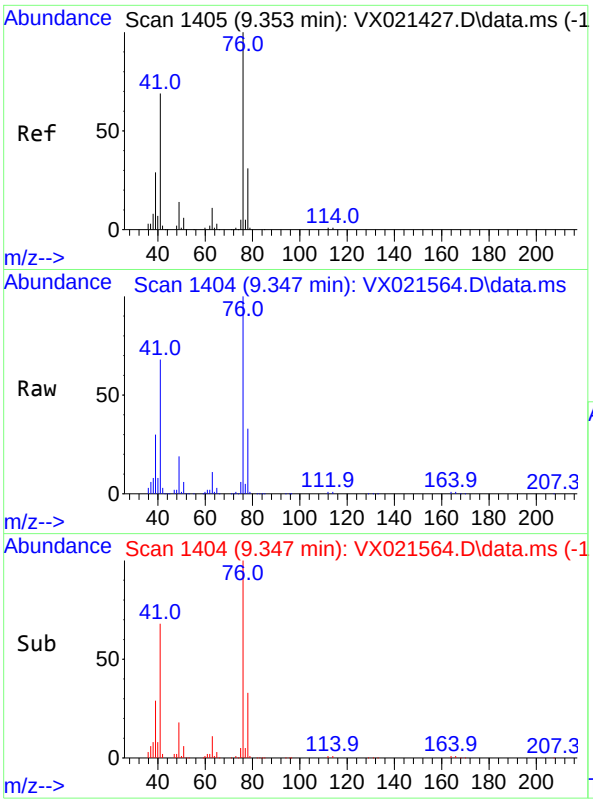
Tgt Ion: 69 Resp: 81077

Ion	Ratio	Lower	Upper
69	100		
41	75.0	46.8	70.2#
39	46.7	24.7	37.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

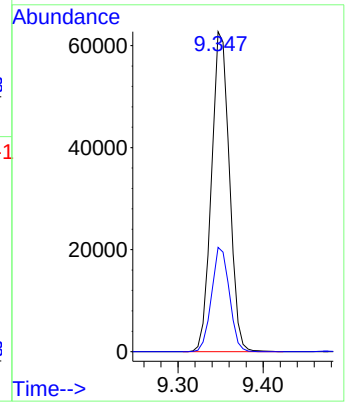
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

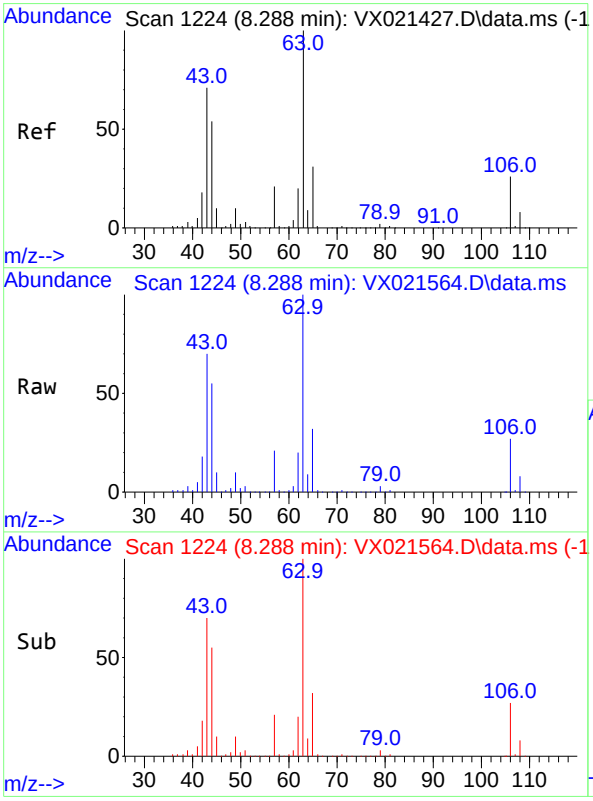


#57
1,3-Dichloropropane
Concen: 48.28 ug/l
RT: 9.347 min Scan# 1404
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 76 Resp: 91480

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.2

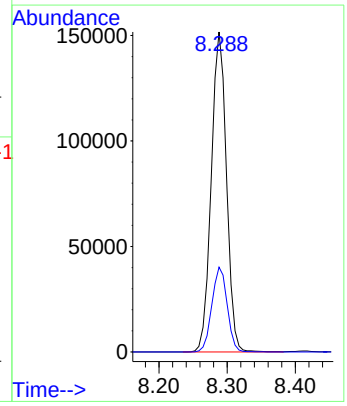




#58
2-Chloroethyl Vinyl ether
Concen: 251.40 ug/l
RT: 8.288 min Scan# 1224
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

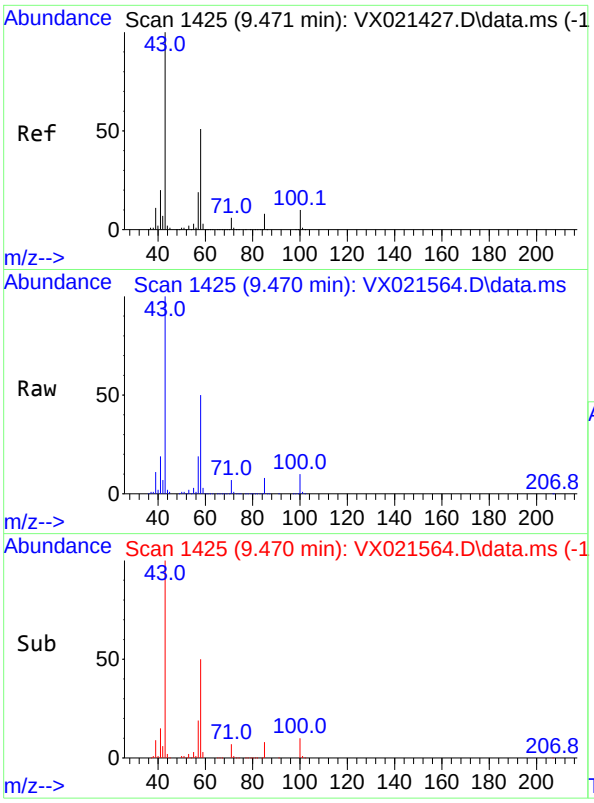
Tgt Ion: 63 Resp: 235217

Ion	Ratio	Lower	Upper
63	100		
106	26.7	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

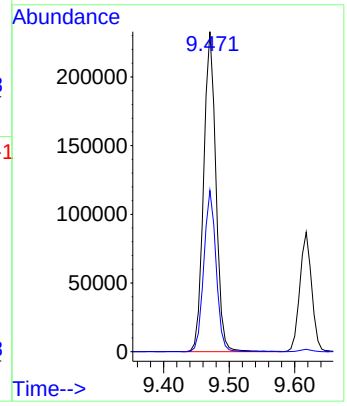
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

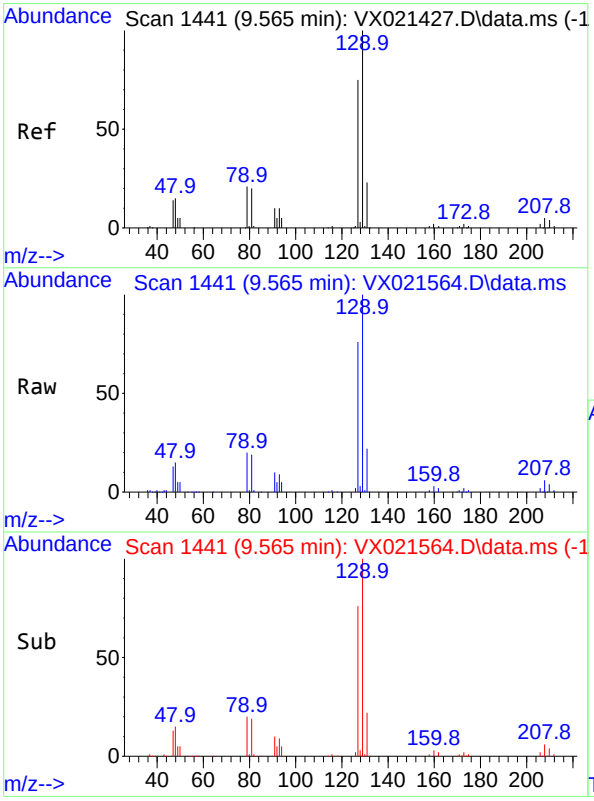


#59
2-Hexanone
Concen: 234.43 ug/l
RT: 9.470 min Scan# 1425
Delta R.T. -0.001 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 43 Resp: 304010

Ion	Ratio	Lower	Upper
43	100		
58	50.3	30.9	92.8

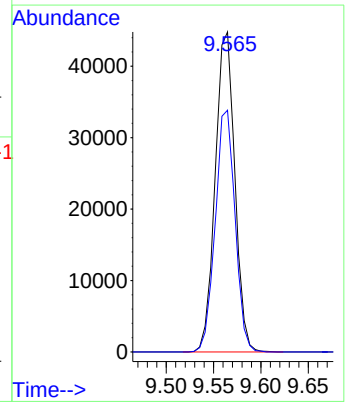




#60
Dibromochloromethane
Concen: 51.87 ug/l
RT: 9.565 min Scan# 1441
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

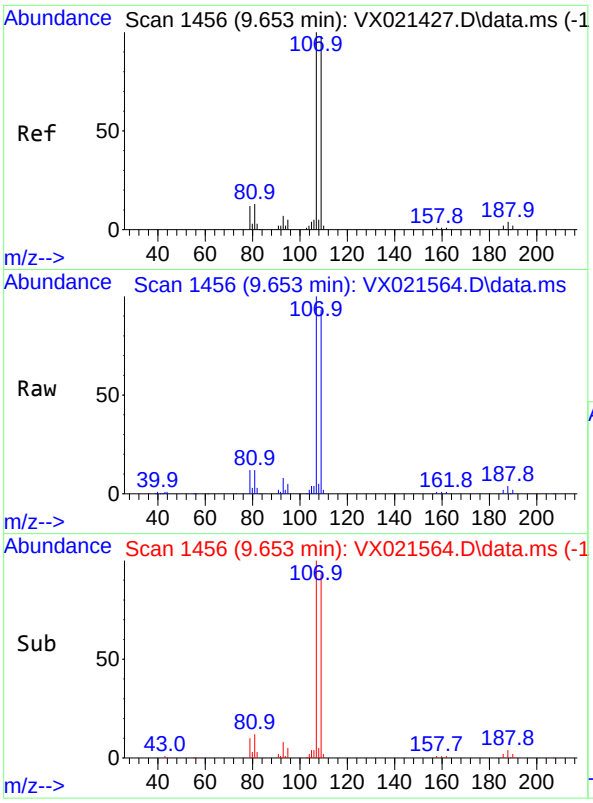
Tgt Ion:129 Resp: 64324

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

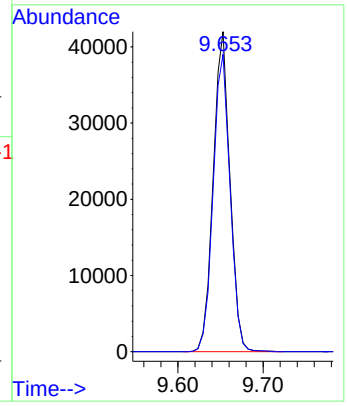
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

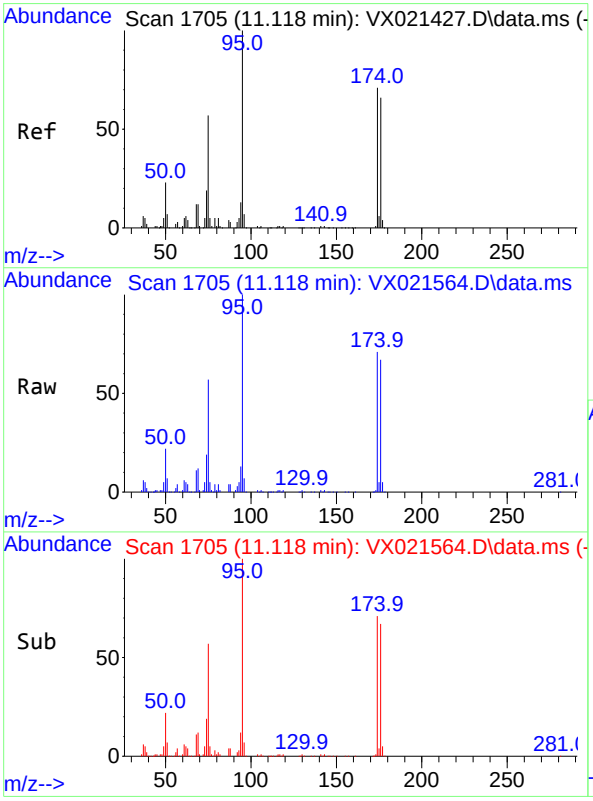


#61
1,2-Dibromoethane
Concen: 48.09 ug/l
RT: 9.653 min Scan# 1456
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:107 Resp: 57198

Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.8	113.6

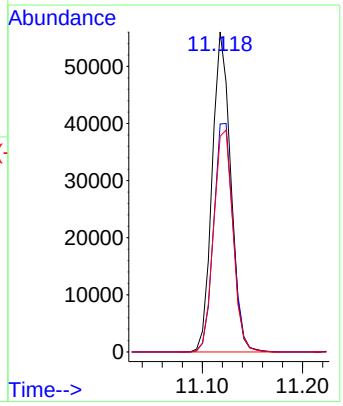




#62
4-Bromofluorobenzene
Concen: 47.81 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

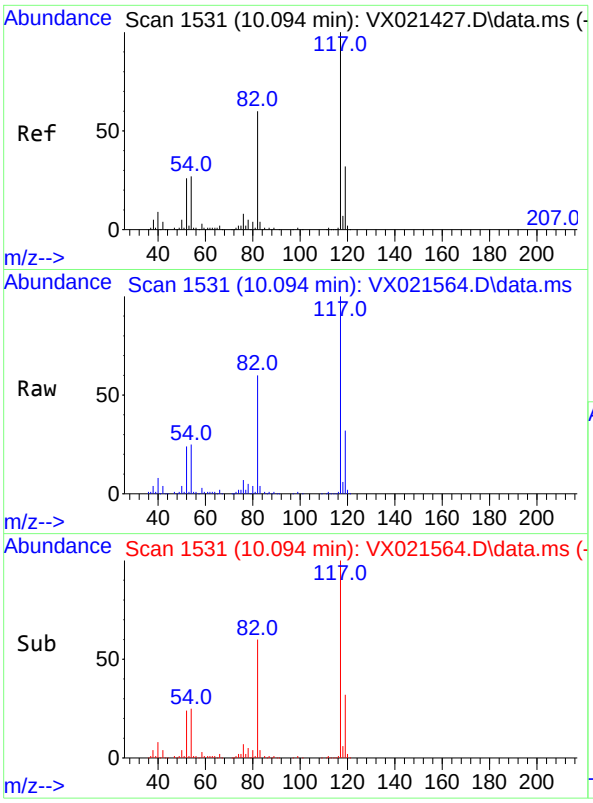
Tgt Ion: 95 Resp: 71817

Ion	Ratio	Lower	Upper
95	100		
174	74.9	0.0	154.6
176	72.2	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

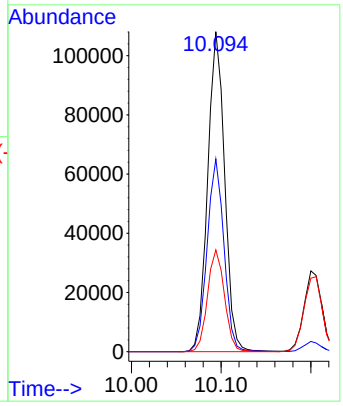
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

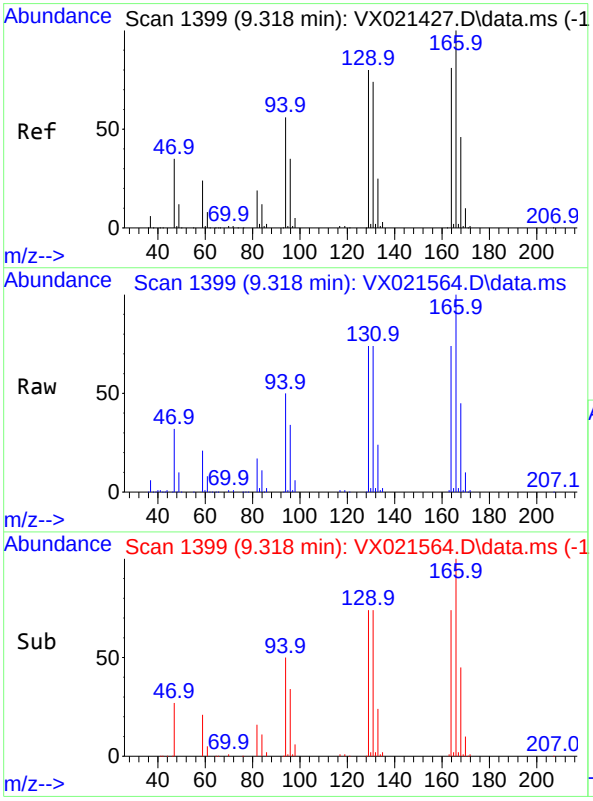


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:117 Resp: 141896

Ion	Ratio	Lower	Upper
117	100		
82	60.2	47.4	71.2
119	31.8	26.6	39.8

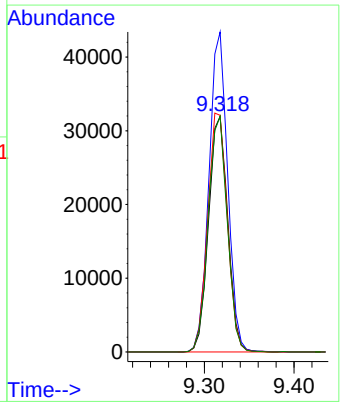




#64
Tetrachloroethene
Concen: 50.06 ug/l
RT: 9.318 min Scan# 1399
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

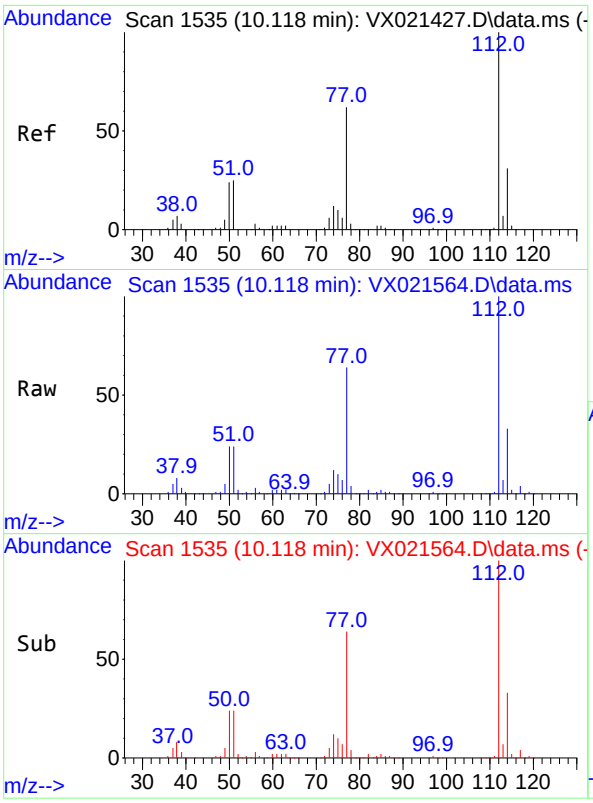
Tgt Ion:164 Resp: 47581

Ion	Ratio	Lower	Upper
164	100		
166	135.8	103.4	155.2
129	100.5	70.8	106.2
131	100.0	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

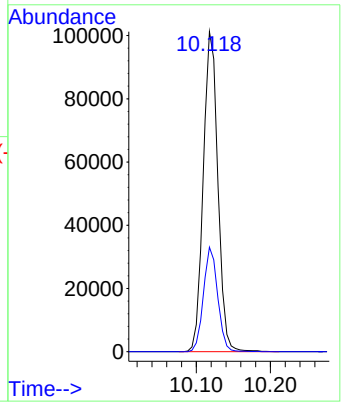
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

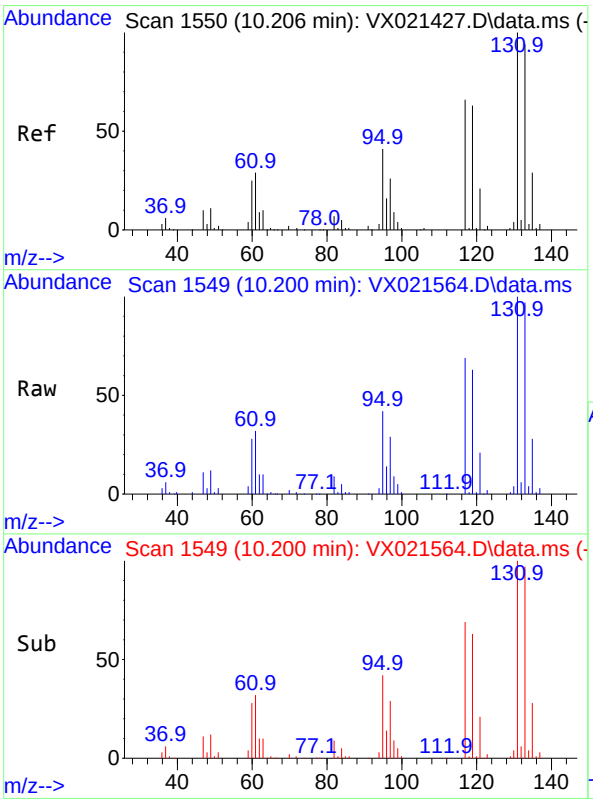


#65
Chlorobenzene
Concen: 48.53 ug/l
RT: 10.118 min Scan# 1535
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:112 Resp: 138329

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.8	38.6

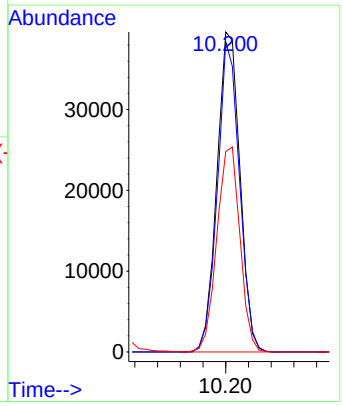




#66
1,1,1,2-Tetrachloroethane
Concen: 50.91 ug/l
RT: 10.200 min Scan# 1549
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

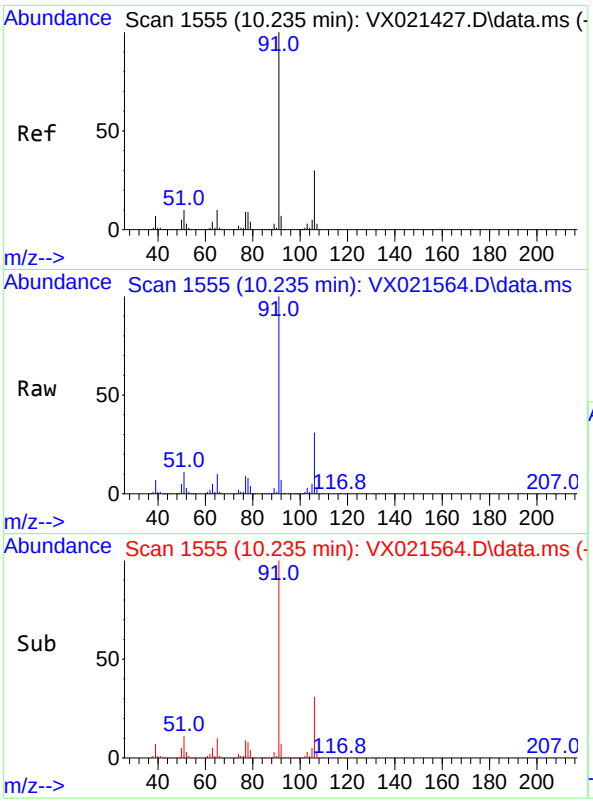
Tgt Ion:131 Resp: 55612

Ion	Ratio	Lower	Upper
131	100		
133	93.2	47.7	143.1
119	64.5	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

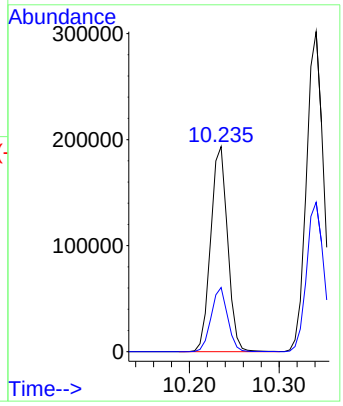
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

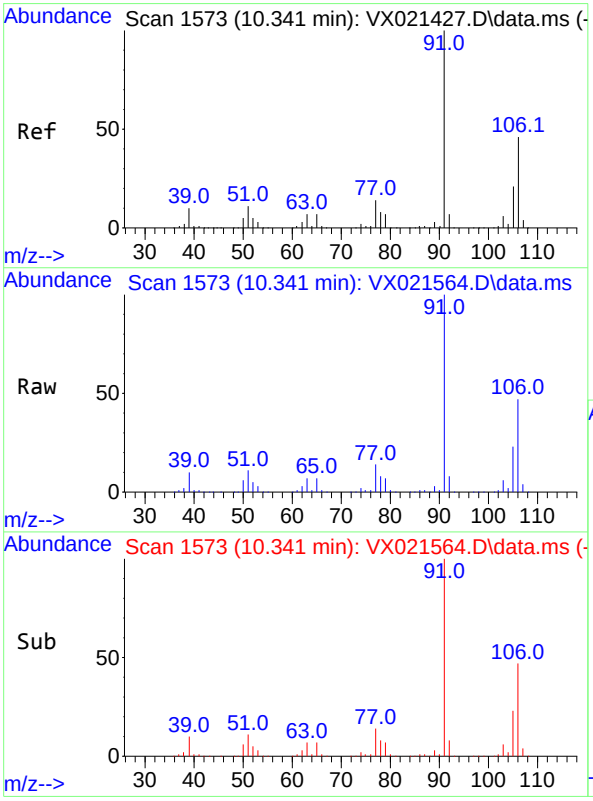


#67
Ethyl Benzene
Concen: 48.81 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 91 Resp: 253616

Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.6	37.0

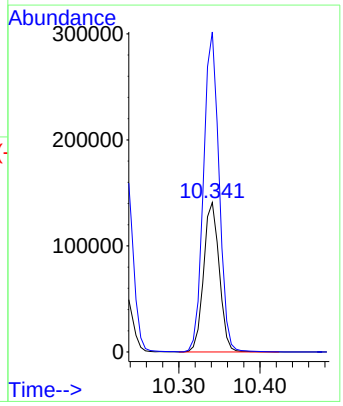




#68
m/p-Xylenes
Concen: 101.71 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

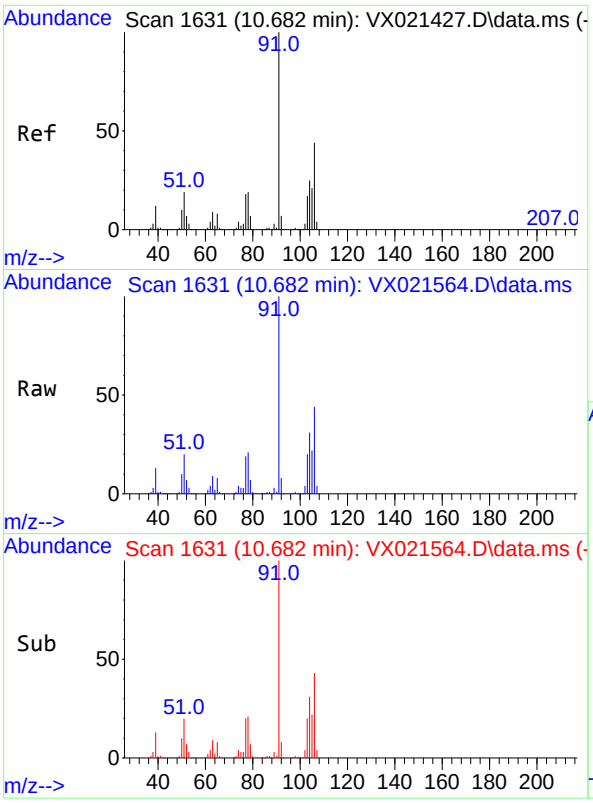
Tgt Ion:106 Resp: 188271

Ion	Ratio	Lower	Upper
106	100		
91	213.0	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

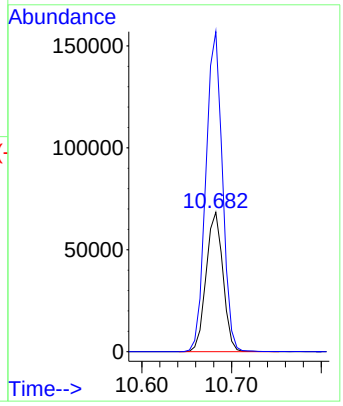
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

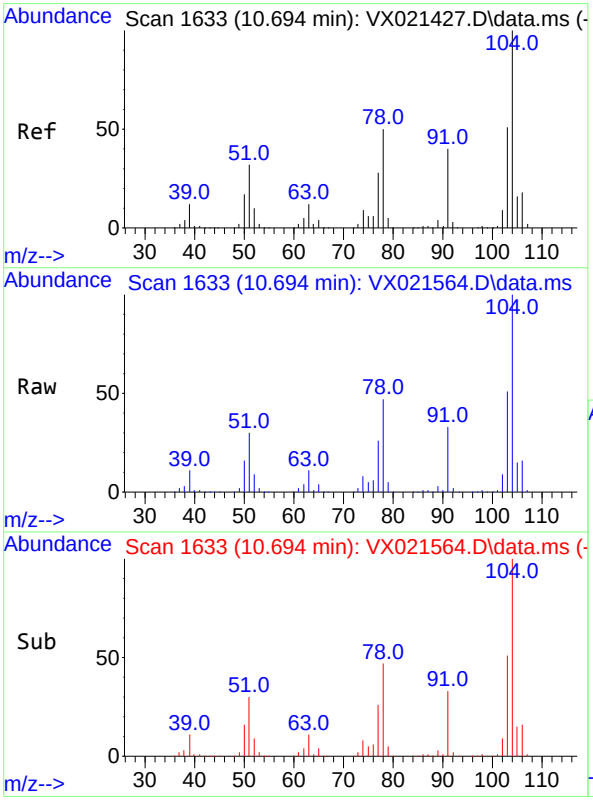


#69
o-Xylene
Concen: 49.61 ug/l
RT: 10.682 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:106 Resp: 88946

Ion	Ratio	Lower	Upper
106	100		
91	226.2	108.1	324.2

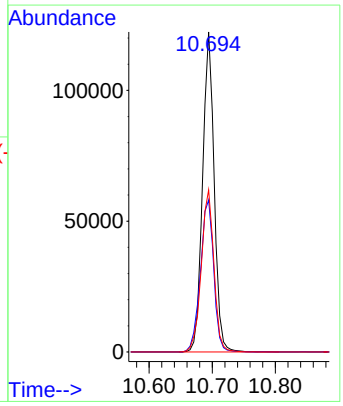




#70
Styrene
Concen: 50.56 ug/l
RT: 10.694 min Scan# 1633
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

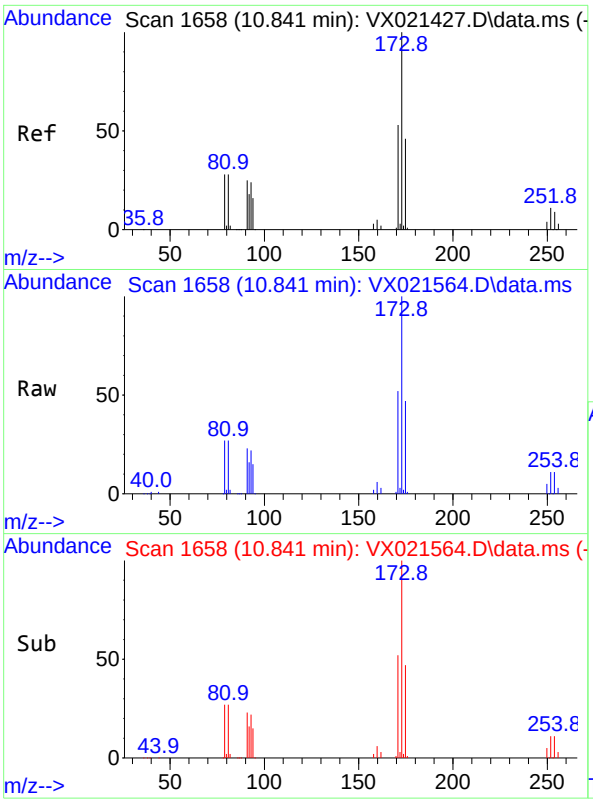
Tgt Ion:104 Resp: 155898

Ion	Ratio	Lower	Upper
104	100		
78	54.6	40.0	60.0
103	55.3	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

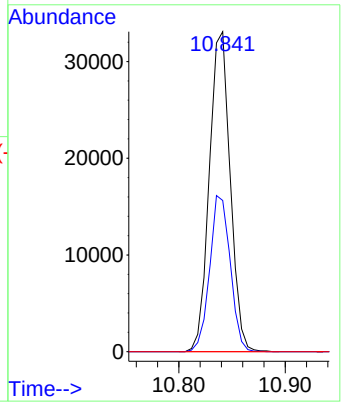
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

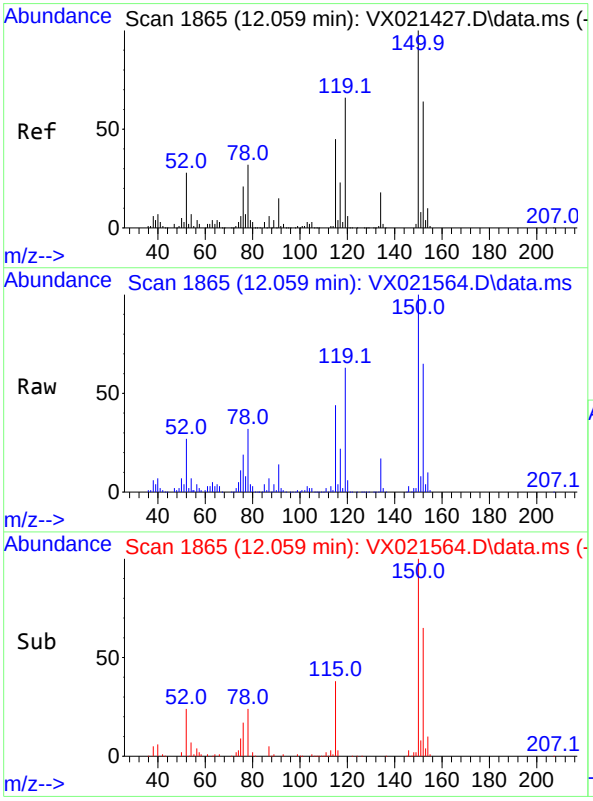


#71
Bromoform
Concen: 50.70 ug/l
RT: 10.841 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:173 Resp: 45000

Ion	Ratio	Lower	Upper
173	100		
175	48.1	23.9	71.8
254	0.0	0.1	0.1#

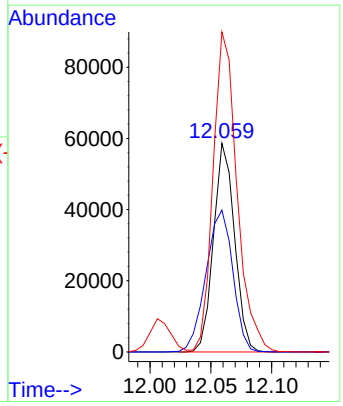




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

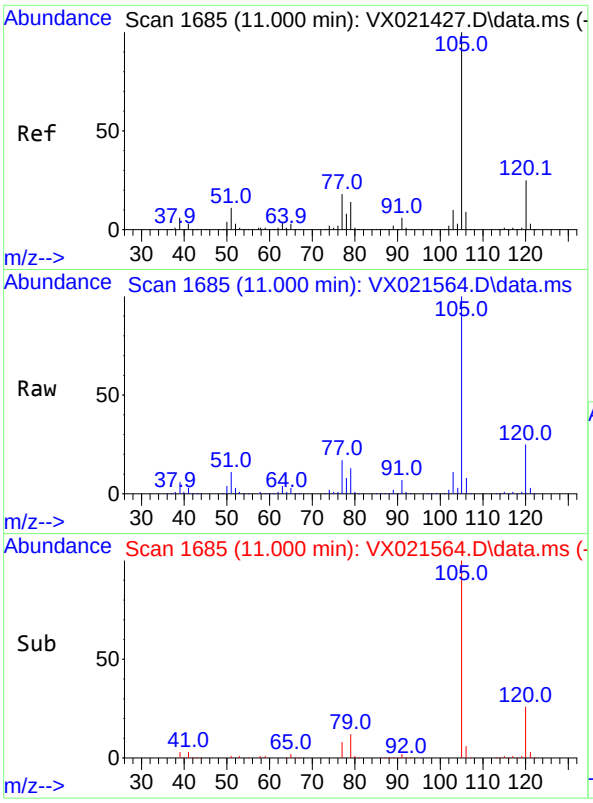
Tgt Ion:152 Resp: 70614

Ion	Ratio	Lower	Upper
152	100		
115	86.5	41.1	123.3
150	174.3	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

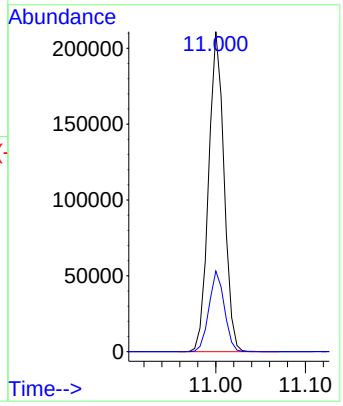
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

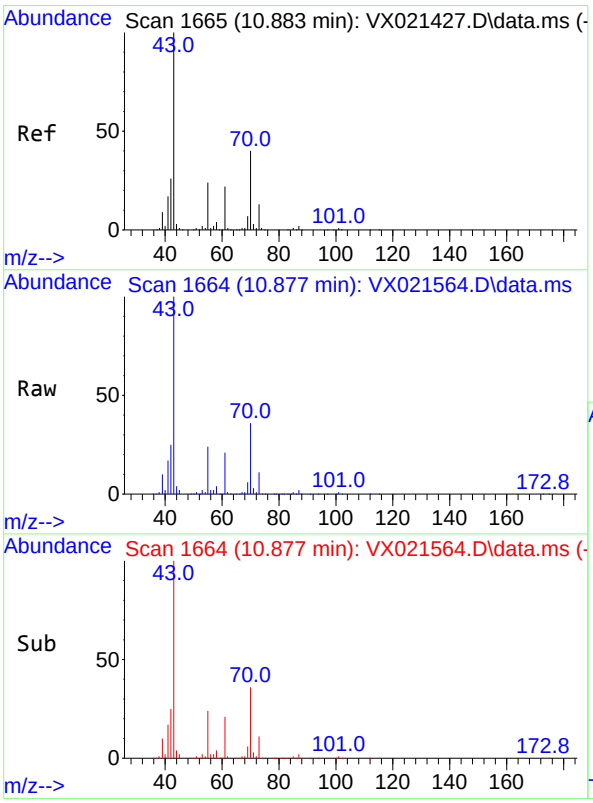


#73
Isopropylbenzene
Concen: 50.61 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:105 Resp: 251082

Ion	Ratio	Lower	Upper
105	100		
120	25.1	13.2	39.6

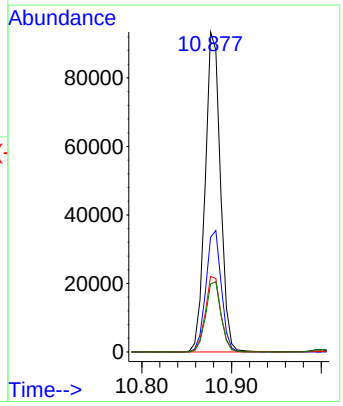




#74
N-amyl acetate
Concen: 45.77 ug/l
RT: 10.877 min Scan# 1664
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

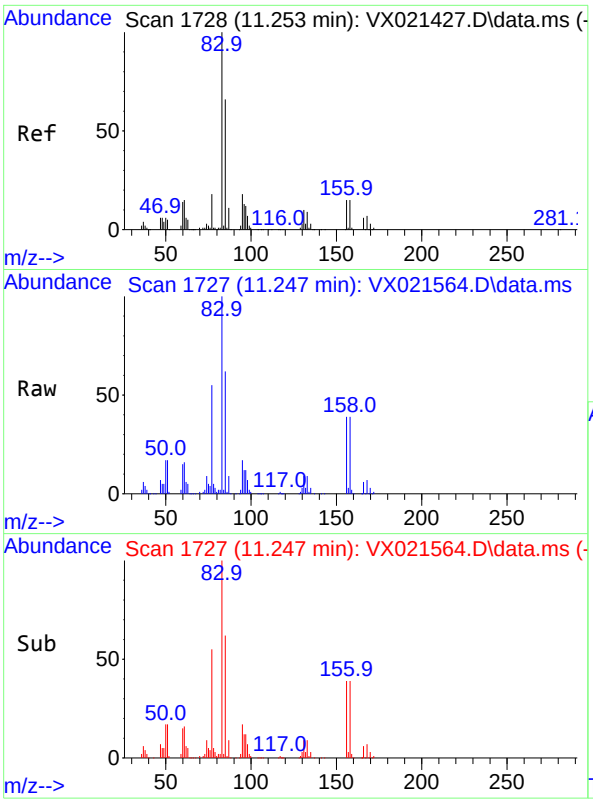
Tgt Ion: 43 Resp: 109888

Ion	Ratio	Lower	Upper
43	100		
70	38.4	39.0	58.6#
55	24.2	21.5	32.3
61	22.1	22.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

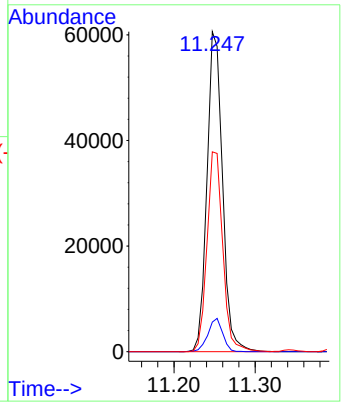
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

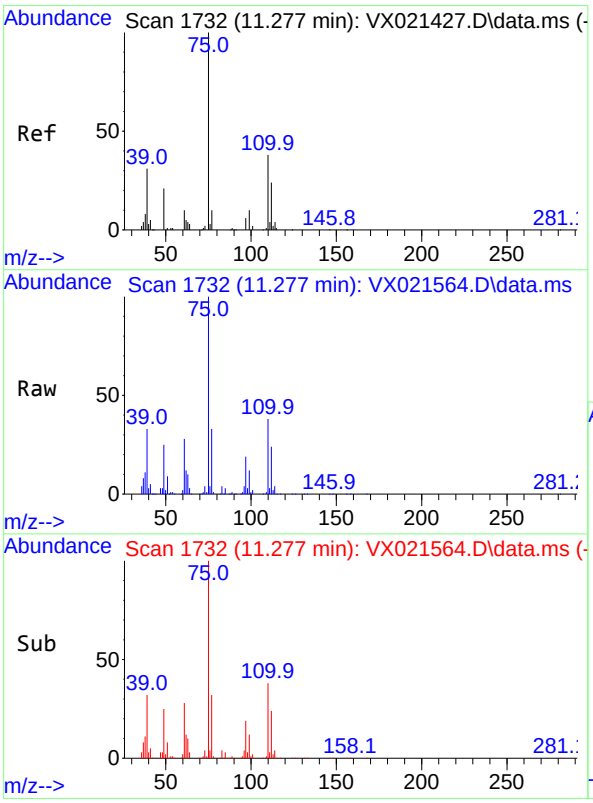


#75
1,1,2,2-Tetrachloroethane
Concen: 45.81 ug/l
RT: 11.247 min Scan# 1727
Delta R.T. -0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 83 Resp: 80299

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.2
85	63.4	31.8	95.4

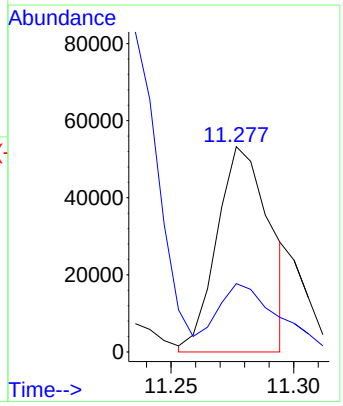




#76
1,2,3-Trichloropropane
Concen: 48.39 ug/l m
RT: 11.277 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

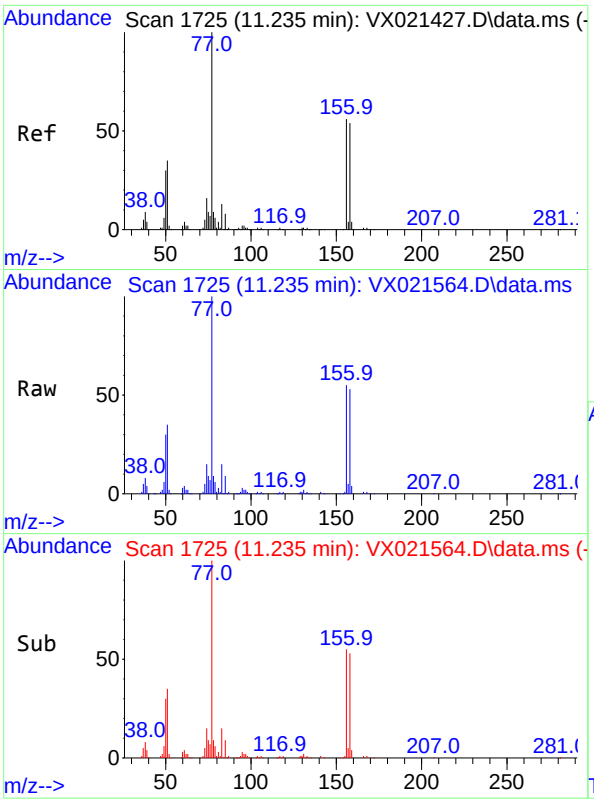
Tgt Ion: 75 Resp: 79542

Ion	Ratio	Lower	Upper
75	100		
77	38.8	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

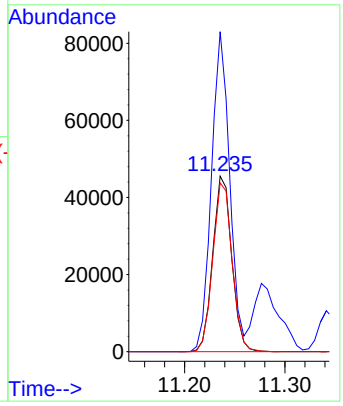
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

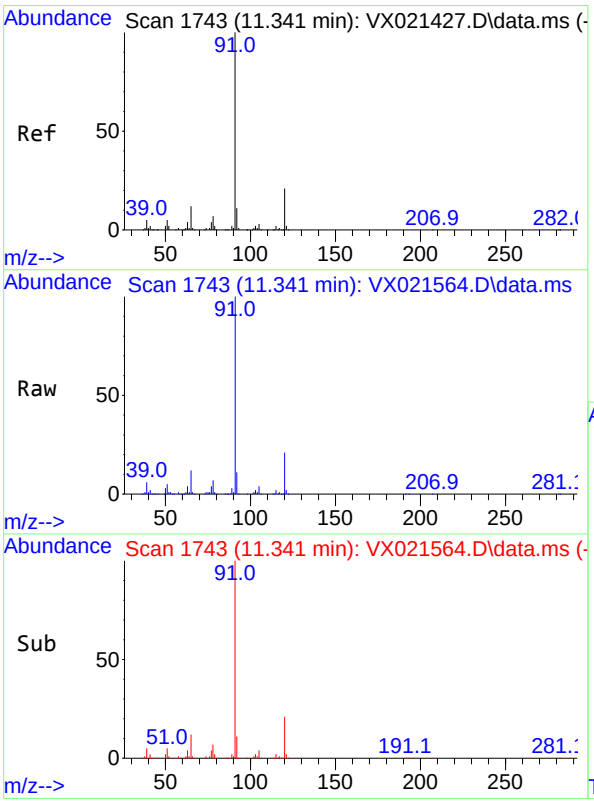


#77
Bromobenzene
Concen: 48.63 ug/l
RT: 11.235 min Scan# 1725
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:156 Resp: 59808

Ion	Ratio	Lower	Upper
156	100		
77	174.6	82.8	248.6
158	97.7	49.1	147.4

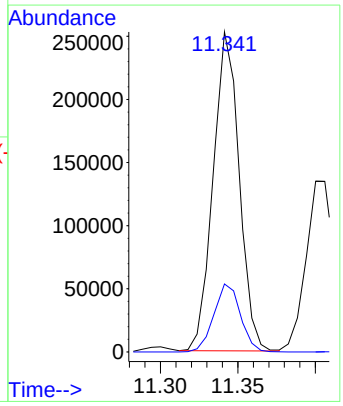




#78
n-propylbenzene
Concen: 50.46 ug/l
RT: 11.341 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

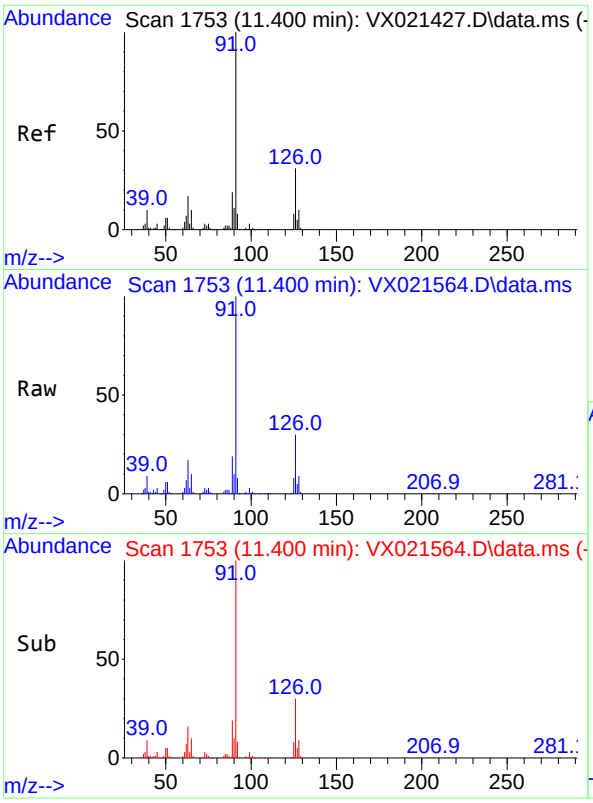
Tgt Ion: 91 Resp: 295680

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

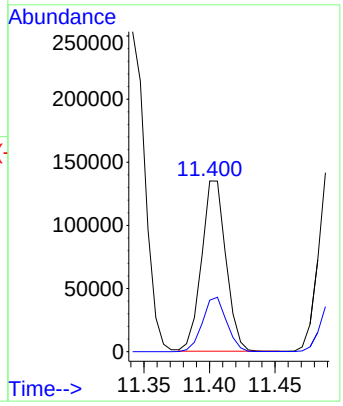
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

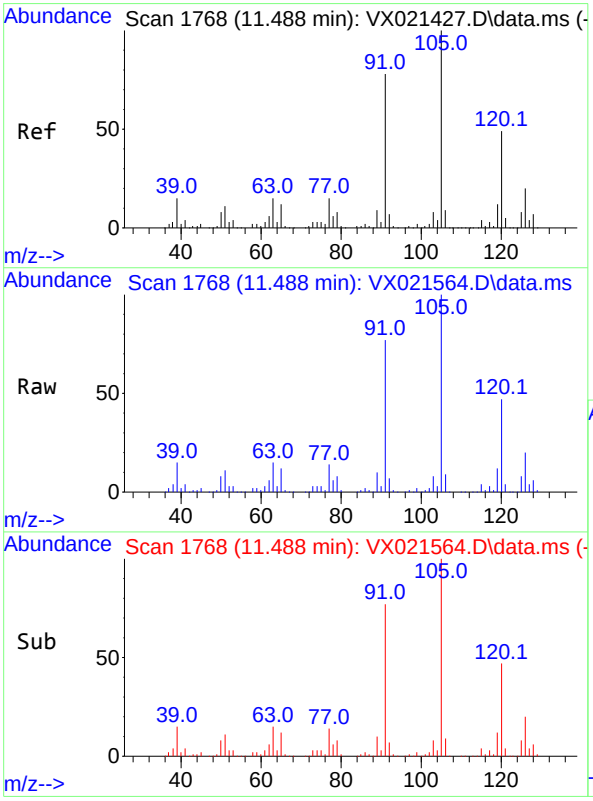


#79
2-Chlorotoluene
Concen: 49.12 ug/l
RT: 11.400 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 91 Resp: 174600

Ion	Ratio	Lower	Upper
91	100		
126	31.8	16.6	49.8

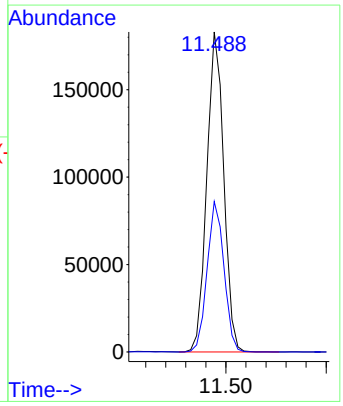




#80
1,3,5-Trimethylbenzene
Concen: 50.72 ug/l
RT: 11.488 min Scan# 1768
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

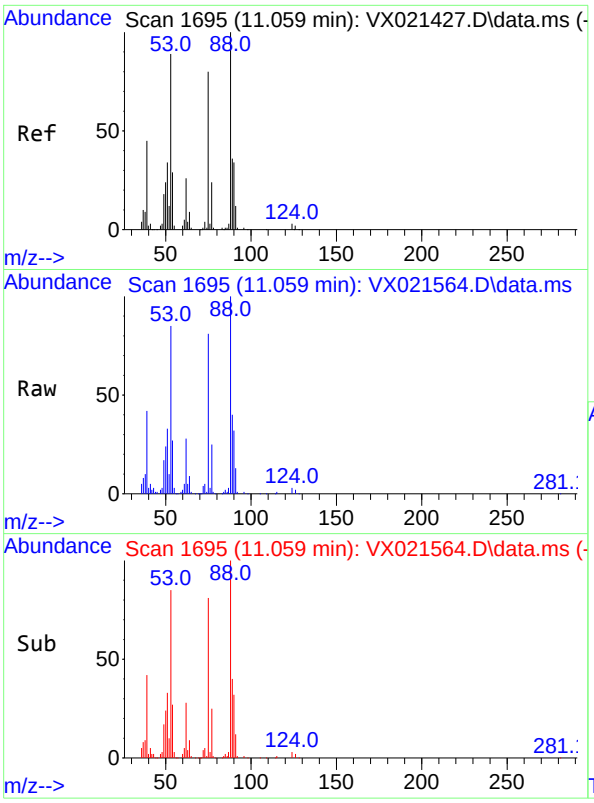
Tgt Ion:105 Resp: 214978

Ion	Ratio	Lower	Upper
105	100		
120	46.9	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

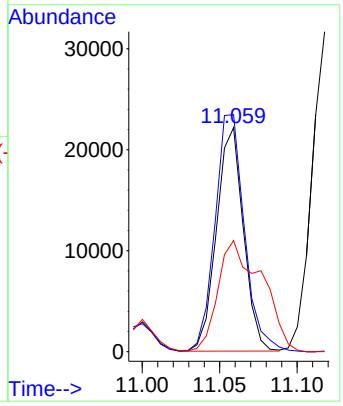
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

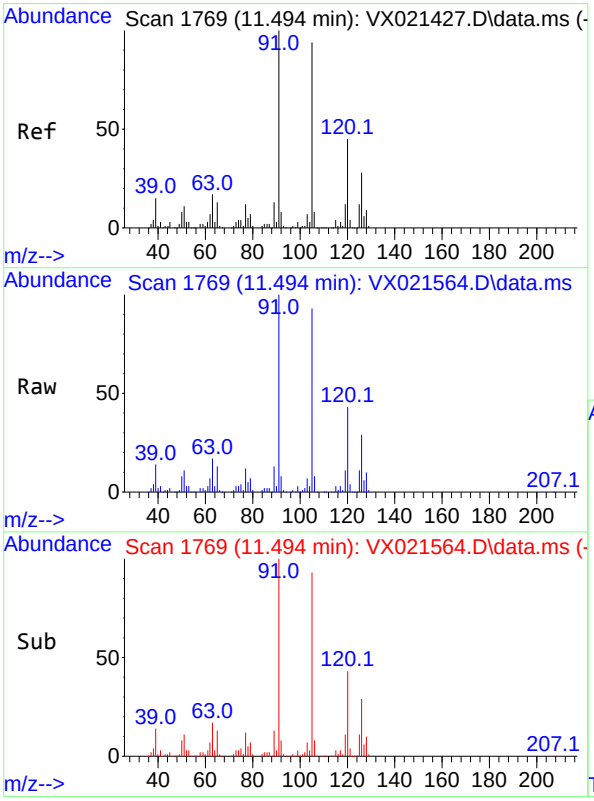


#81
trans-1,4-Dichloro-2-butene
Concen: 49.60 ug/l
RT: 11.059 min Scan# 1695
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 75 Resp: 26769

Ion	Ratio	Lower	Upper
75	100		
53	116.2	74.5	111.7#
89	80.9	37.9	56.9#

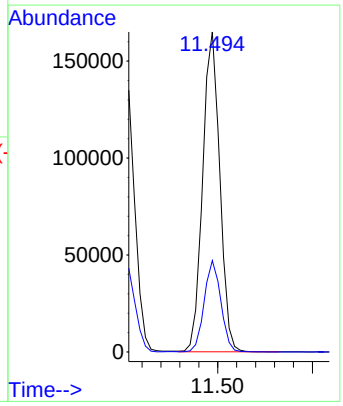




#82
4-Chlorotoluene
Concen: 48.99 ug/l
RT: 11.494 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

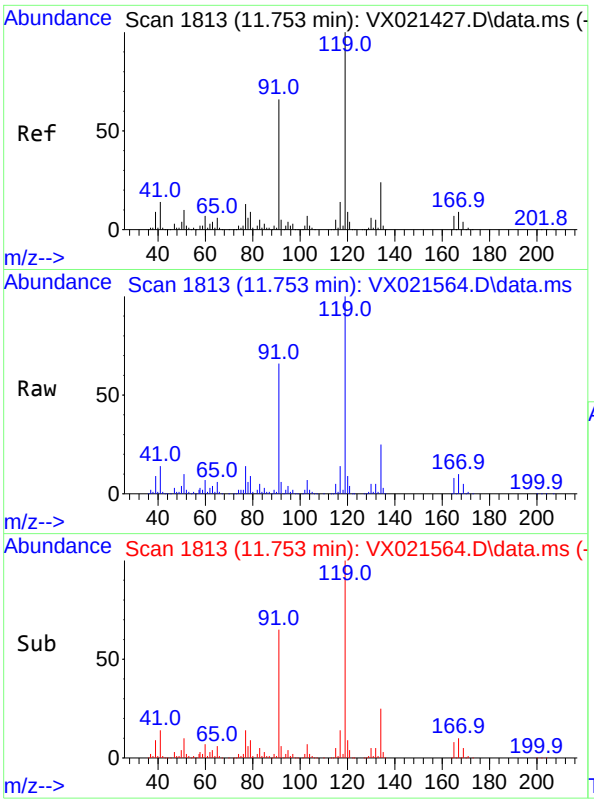
Tgt Ion: 91 Resp: 206745

Ion	Ratio	Lower	Upper
91	100		
126	27.9	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

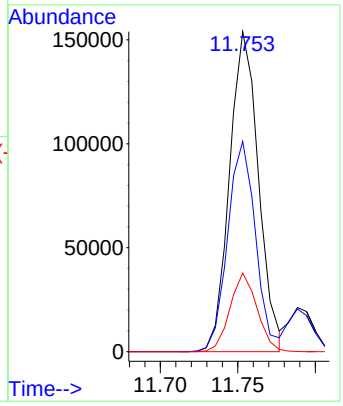
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

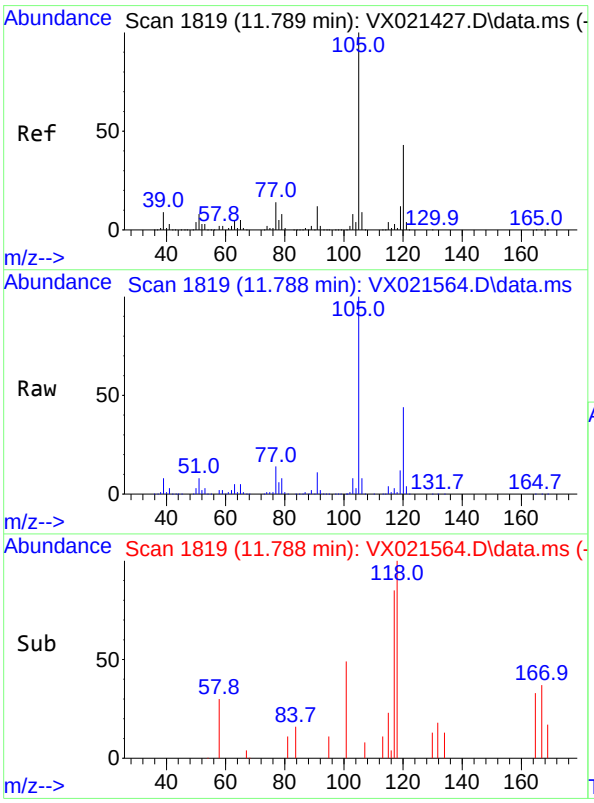


#83
tert-Butylbenzene
Concen: 48.50 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:119 Resp: 200143

Ion	Ratio	Lower	Upper
119	100		
91	63.5	27.9	83.7
134	22.9	11.3	33.9

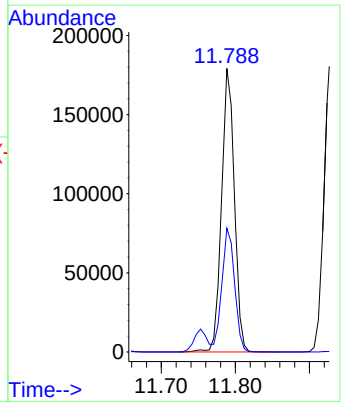




#84
1,2,4-Trimethylbenzene
Concen: 50.46 ug/l
RT: 11.788 min Scan# 1819
Delta R.T. -0.001 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

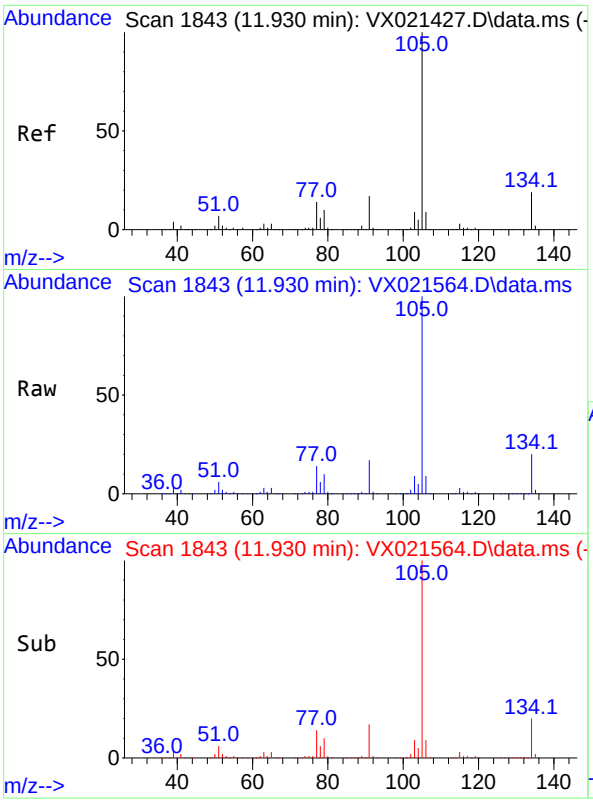
Tgt Ion:105 Resp: 215634

Ion	Ratio	Lower	Upper
105	100		
120	43.0	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

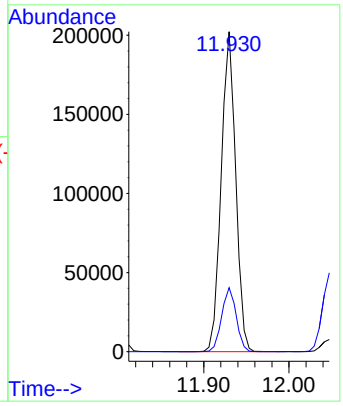
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

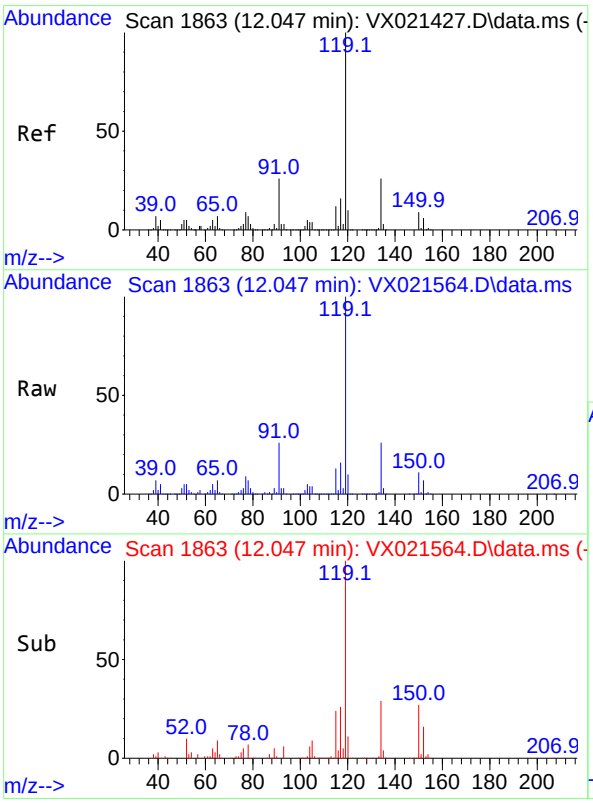


#85
sec-Butylbenzene
Concen: 50.07 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:105 Resp: 238360

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	29.8

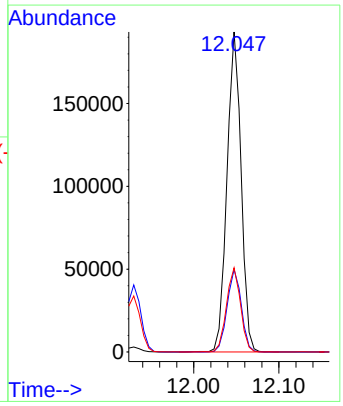




#86
p-Isopropyltoluene
Concen: 51.14 ug/l
RT: 12.047 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

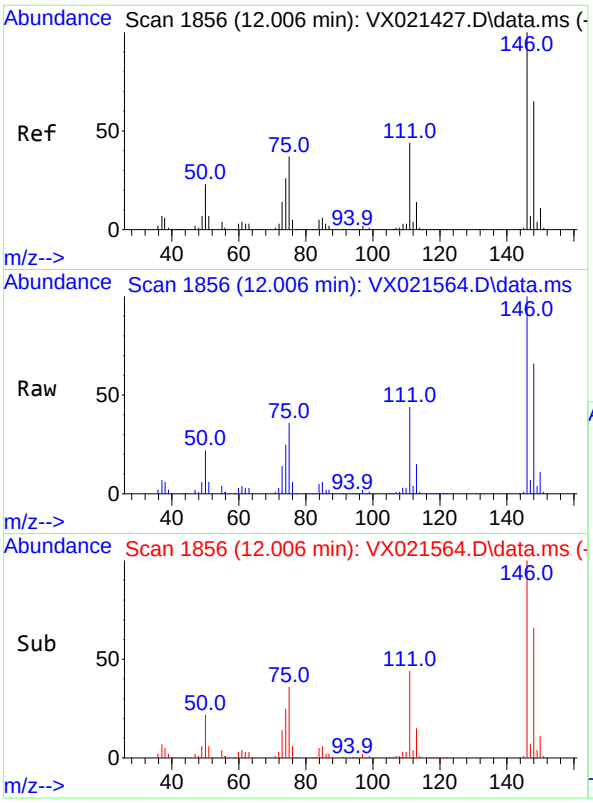
Tgt Ion:119 Resp: 221586

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.9	38.7
91	26.3	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

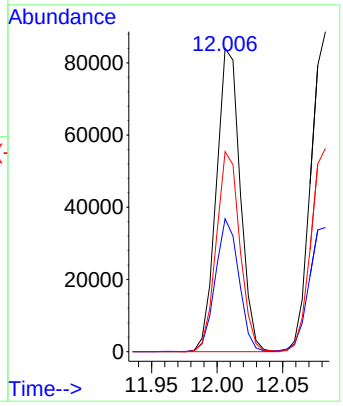
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

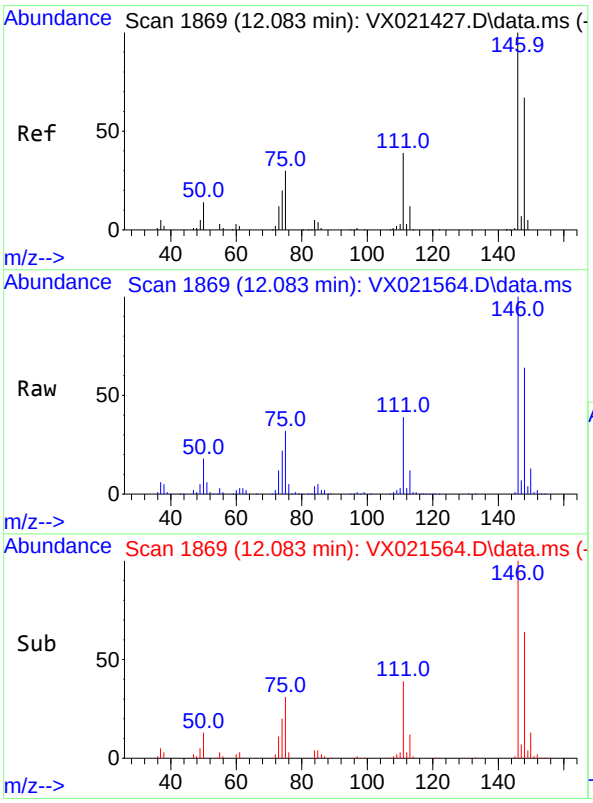


#87
1,3-Dichlorobenzene
Concen: 47.88 ug/l
RT: 12.006 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:146 Resp: 106039

Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.2	60.5
148	65.4	31.9	95.7

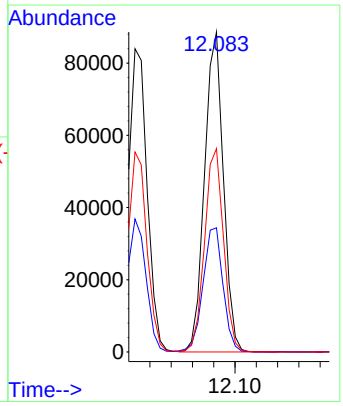




#88
1,4-Dichlorobenzene
Concen: 47.54 ug/l
RT: 12.083 min Scan# 1869
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

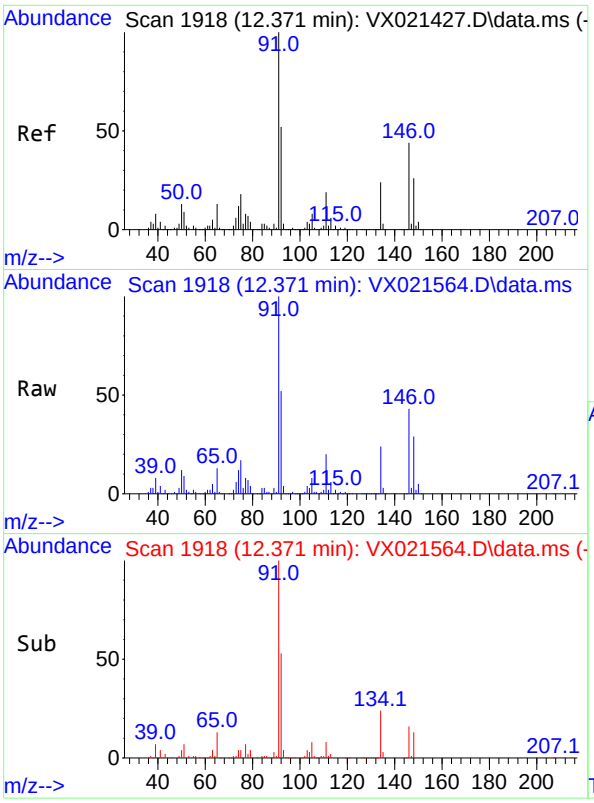
Tgt Ion:146 Resp: 108920

Ion	Ratio	Lower	Upper
146	100		
111	41.4	19.6	58.8
148	64.1	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

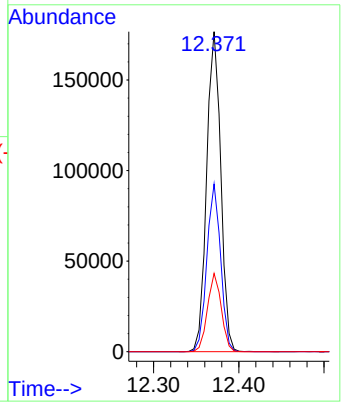
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

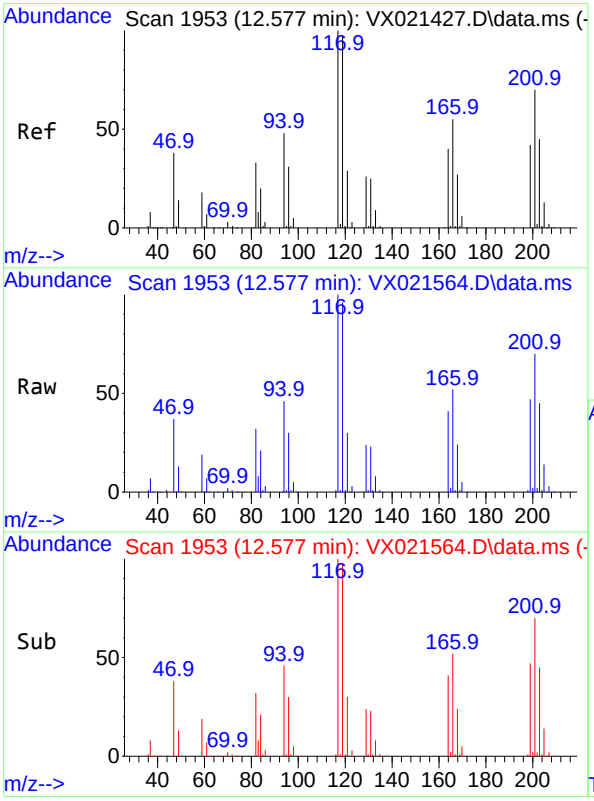


#89
n-Butylbenzene
Concen: 51.07 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion: 91 Resp: 202746

Ion	Ratio	Lower	Upper
91	100		
92	51.3	27.4	82.0
134	23.9	13.2	39.5

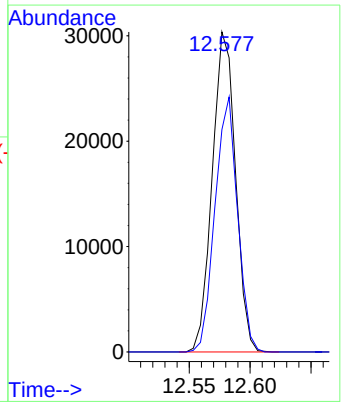




#90
Hexachloroethane
Concen: 51.61 ug/l
RT: 12.577 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

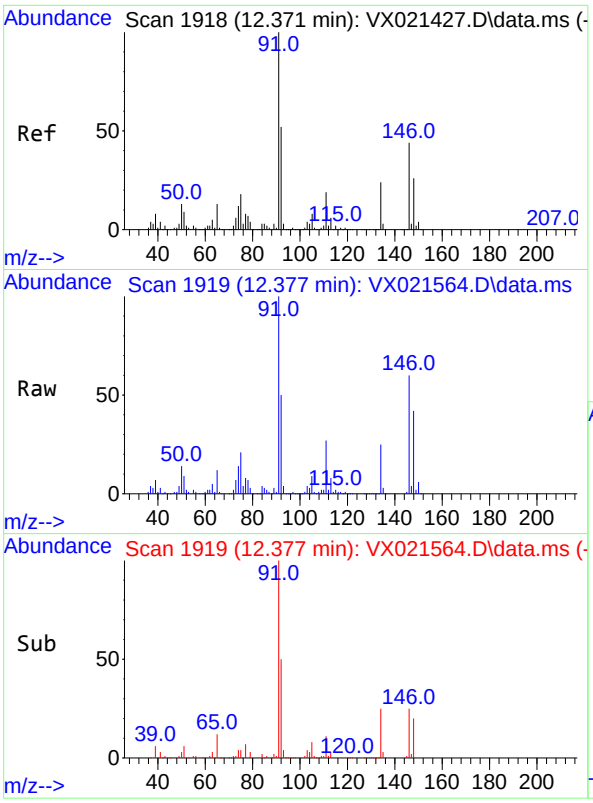
Tgt Ion:117 Resp: 40358

Ion	Ratio	Lower	Upper
117	100		
201	77.2	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

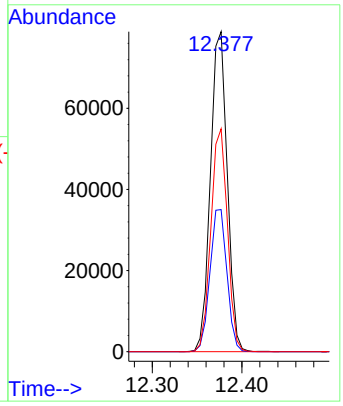
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

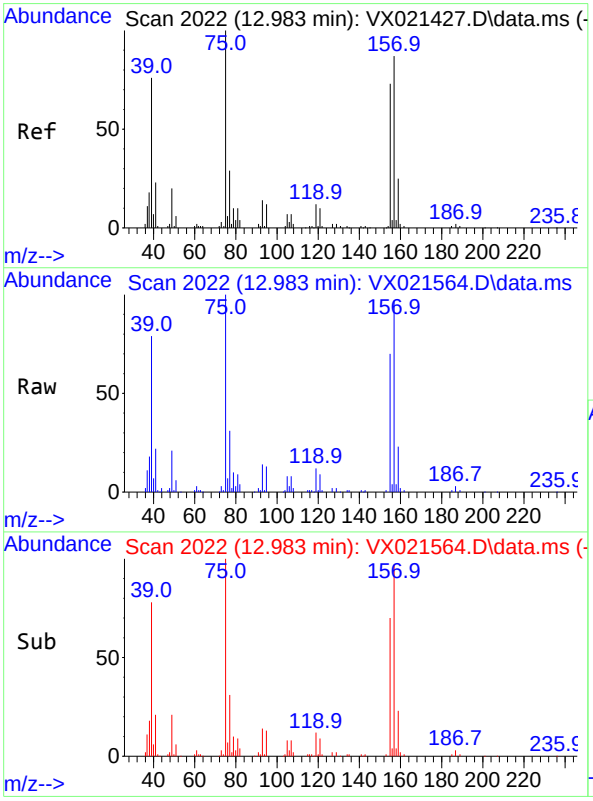


#91
1,2-Dichlorobenzene
Concen: 47.72 ug/l
RT: 12.377 min Scan# 1919
Delta R.T. 0.006 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:146 Resp: 102769

Ion	Ratio	Lower	Upper
146	100		
111	44.8	20.8	62.2
148	68.5	31.9	95.5

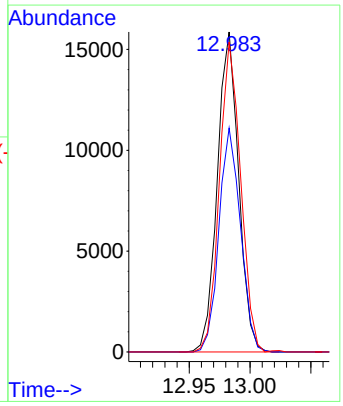




#92
1,2-Dibromo-3-Chloropropane
Concen: 43.93 ug/l
RT: 12.983 min Scan# 2022
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

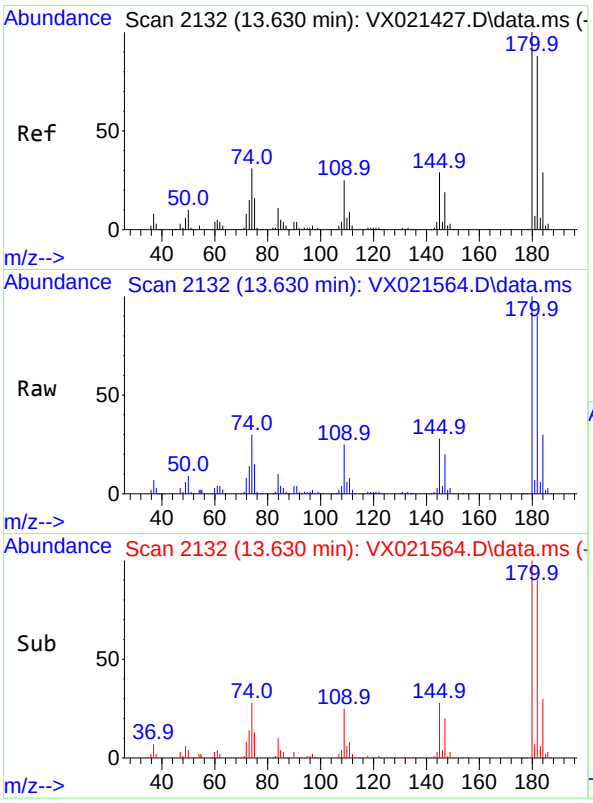
Tgt Ion: 75 Resp: 19299

Ion	Ratio	Lower	Upper
75	100		
155	70.8	45.3	135.9
157	96.9	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

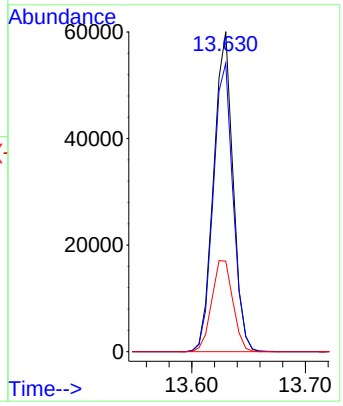
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

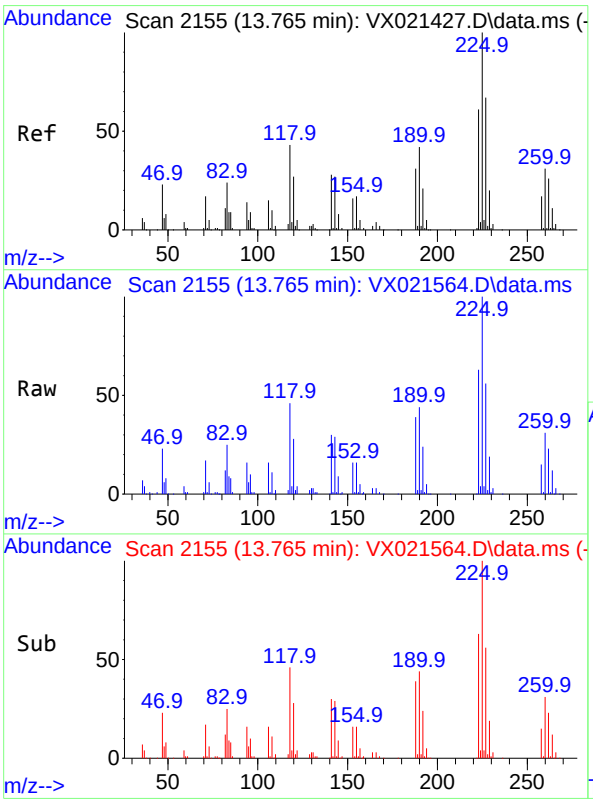


#93
1,2,4-Trichlorobenzene
Concen: 50.39 ug/l
RT: 13.630 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:180 Resp: 71119

Ion	Ratio	Lower	Upper
180	100		
182	92.2	47.7	143.1
145	31.1	15.0	45.0

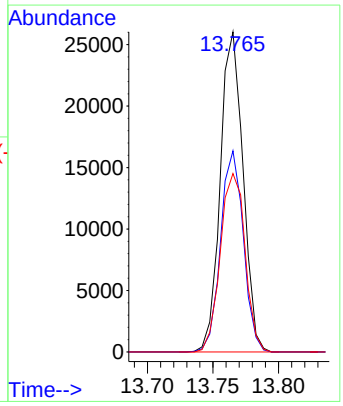




#94
Hexachlorobutadiene
Concen: 49.18 ug/l
RT: 13.765 min Scan# 2155
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

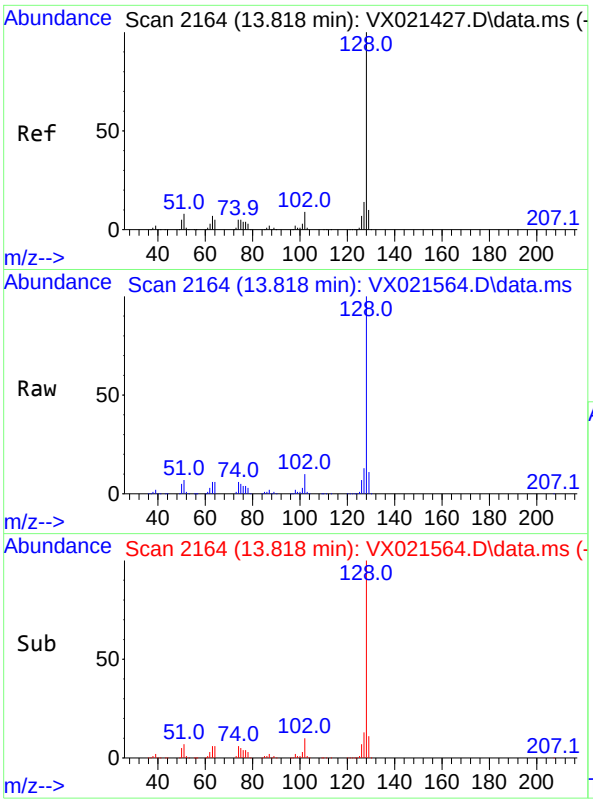
Tgt Ion:225 Resp: 31327

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.1	93.2
227	60.7	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

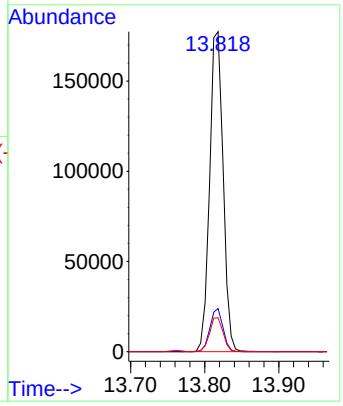
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:24 AM

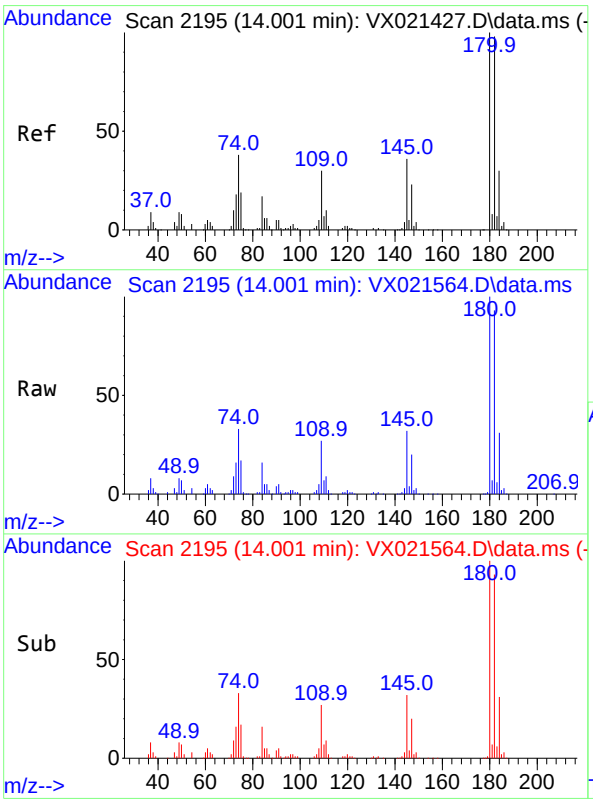


#95
Naphthalene
Concen: 48.69 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:128 Resp: 224130

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.7	8.8	13.2

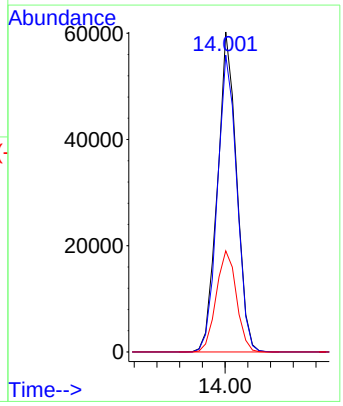




#96
1,2,3-Trichlorobenzene
Concen: 49.95 ug/l
RT: 14.001 min Scan# 2195
Delta R.T. -0.000 min
Lab File: VX021564.D
Acq: 29 Mar 2021 09:35

Tgt Ion:180 Resp: 70462

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.6	142.9
145	33.4	16.1	48.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021564.D
Acq On : 29 Mar 2021 09:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 30 03:22:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
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	116	-0.01
2	T	Dichlorodifluoromethane	0.550	0.514	6.5	108	0.00
3	P	Chloromethane	0.702	0.561	20.1	107	0.00
4	C	Vinyl Chloride	0.562	0.525	6.6#	107	0.00
5	T	Bromomethane	0.226	0.232	-2.7	123	0.00
6	T	Chloroethane	0.357	0.326	8.7	106	0.00
7	T	Trichlorofluoromethane	0.914	0.879	3.8	109	0.00
8	T	Diethyl Ether	0.317	0.295	6.9	109	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.515	0.492	4.5	112	0.00
10	T	Methyl Iodide	0.362	0.400	-10.5	128	0.00
11	T	Tert butyl alcohol	0.138	0.120	13.0	104	-0.01
12	CM	1,1-Dichloroethene	0.504	0.457	9.3#	110	0.00
13	T	Acrolein	0.077	0.052	32.5#	90	0.00
14	T	Allyl chloride	1.023	0.933	8.8	107	0.00
15	T	Acrylonitrile	0.327	0.290	11.3	102	0.00
16	T	Acetone	0.315	0.256	18.7	97	0.00
17	T	Carbon Disulfide	1.415	1.197	15.4	103	0.00
18	T	Methyl Acetate	0.909	0.865	4.8	107	0.00
19	T	Methyl tert-butyl Ether	1.882	1.769	6.0	108	0.00
20	T	Methylene Chloride	0.614	0.554	9.8	108	0.00
21	T	trans-1,2-Dichloroethene	0.553	0.502	9.2	106	0.00
22	T	Diisopropyl ether	1.987	1.873	5.7	108	0.00
23	T	Vinyl Acetate	1.681	1.561	7.1	105	0.00
24	P	1,1-Dichloroethane	1.071	1.006	6.1	109	0.00
25	T	2-Butanone	0.477	0.407	14.7	99	0.00
26	T	2,2-Dichloropropane	0.928	0.918	1.1	113	0.00
27	T	cis-1,2-Dichloroethene	0.643	0.605	5.9	109	0.00
28	T	Bromochloromethane	0.536	0.484	9.7	111	0.00
29	T	Tetrahydrofuran	0.309	0.268	13.3	101	0.00
30	C	Chloroform	1.131	1.077	4.8#	109	0.00
31	T	Cyclohexane	0.915	0.847	7.4	105	0.00
32	T	1,1,1-Trichloroethane	1.002	0.950	5.2	108	0.00
33	S	1,2-Dichloroethane-d4	0.832	0.769	7.6	115	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	115	0.00
35	S	Dibromofluoromethane	0.355	0.343	3.4	117	0.00
36	T	1,1-Dichloropropene	0.490	0.468	4.5	109	0.00
37	T	Ethyl Acetate	0.566	0.485	14.3	101	0.00
38	T	Carbon Tetrachloride	0.526	0.524	0.4	110	0.00
39	T	Methylcyclohexane	0.543	0.530	2.4	107	0.00
40	TM	Benzene	1.391	1.334	4.1	107	0.00
41	T	Methacrylonitrile	0.329	0.296	10.0	103	0.00
42	TM	1,2-Dichloroethane	0.603	0.586	2.8	109	0.00
43	T	Isopropyl Acetate	0.920	0.843	8.4	102	0.00
44	TM	Trichloroethene	0.367	0.348	5.2	108	0.00
45	C	1,2-Dichloropropane	0.377	0.368	2.4#	108	0.00
46	T	Dibromomethane	0.275	0.259	5.8	105	0.00
47	T	Bromodichloromethane	0.559	0.557	0.4	110	0.00
48	T	Methyl methacrylate	0.491	0.461	6.1	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021564.D
Acq On : 29 Mar 2021 09:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 30 03:22:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.008	11.1	101	0.00
50	S	Toluene-d8	1.266	1.201	5.1	111	0.00
51	T	4-Methyl-2-Pentanone	0.566	0.527	6.9	102	0.00
52	CM	Toluene	0.859	0.848	1.3#	108	0.00
53	T	t-1,3-Dichloropropene	0.564	0.564	0.0	108	0.00
54	T	cis-1,3-Dichloropropene	0.601	0.608	-1.2	109	0.00
55	T	1,1,2-Trichloroethane	0.363	0.361	0.6	110	0.00
56	T	Ethyl methacrylate	0.548	0.531	3.1	103	0.00
57	T	1,3-Dichloropropane	0.621	0.599	3.5	106	0.00
58	T	2-Chloroethyl Vinyl ether	0.307	0.308	-0.3	109	0.00
59	T	2-Hexanone	0.425	0.398	6.4	102	0.00
60	T	Dibromochloromethane	0.406	0.421	-3.7	112	0.00
61	T	1,2-Dibromoethane	0.390	0.375	3.8	104	0.00
62	S	4-Bromofluorobenzene	0.492	0.471	4.3	114	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
64	T	Tetrachloroethene	0.335	0.335	0.0	109	0.00
65	PM	Chlorobenzene	1.004	0.975	2.9	106	0.00
66	T	1,1,1,2-Tetrachloroethane	0.385	0.392	-1.8	110	0.00
67	C	Ethyl Benzene	1.831	1.787	2.4#	105	0.00
68	T	m/p-Xylenes	0.652	0.663	-1.7	108	0.00
69	T	o-Xylene	0.632	0.627	0.8	107	0.00
70	T	Styrene	1.086	1.099	-1.2	109	0.00
71	P	Bromoform	0.313	0.317	-1.3	109	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.00
73	T	Isopropylbenzene	3.513	3.556	-1.2	109	0.00
74	T	N-amyl acetate	1.700	1.556	8.5	103	0.00
75	P	1,1,2,2-Tetrachloroethane	1.241	1.137	8.4	104	0.00
76	T	1,2,3-Trichloropropane	1.164	1.126	3.3	105	0.00
77	T	Bromobenzene	0.871	0.847	2.8	108	0.00
78	T	n-propylbenzene	4.149	4.187	-0.9	110	0.00
79	T	2-Chlorotoluene	2.517	2.473	1.7	108	0.00
80	T	1,3,5-Trimethylbenzene	3.001	3.044	-1.4	109	0.00
81	T	trans-1,4-Dichloro-2-butene	0.382	0.379	0.8	110	0.00
82	T	4-Chlorotoluene	2.988	2.928	2.0	108	0.00
83	T	tert-Butylbenzene	2.922	2.834	3.0	107	0.00
84	T	1,2,4-Trimethylbenzene	3.026	3.054	-0.9	109	0.00
85	T	sec-Butylbenzene	3.371	3.376	-0.1	107	0.00
86	T	p-Isopropyltoluene	3.068	3.138	-2.3	108	0.00
87	T	1,3-Dichlorobenzene	1.568	1.502	4.2	109	0.00
88	T	1,4-Dichlorobenzene	1.622	1.542	4.9	111	0.00
89	T	n-Butylbenzene	2.811	2.871	-2.1	110	0.00
90	T	Hexachloroethane	0.554	0.572	-3.2	115	0.00
91	T	1,2-Dichlorobenzene	1.525	1.455	4.6	109	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.286	0.273	4.5	105	0.00
93	T	1,2,4-Trichlorobenzene	0.999	1.007	-0.8	113	0.00
94	T	Hexachlorobutadiene	0.451	0.444	1.6	113	0.00
95	T	Naphthalene	3.259	3.174	2.6	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021564.D
Acq On : 29 Mar 2021 09:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 30 03:22:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
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	0.999	0.998	0.1	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021564.D
Acq On : 29 Mar 2021 09:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 30 03:22:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
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	116	-0.01
2	T	Dichlorodifluoromethane	50.000	46.727	6.5	108	0.00
3	P	Chloromethane	50.000	44.429	11.1	107	0.00
4	C	Vinyl Chloride	50.000	46.669	6.7#	107	0.00
5	T	Bromomethane	50.000	51.319	-2.6	123	0.00
6	T	Chloroethane	50.000	45.773	8.5	106	0.00
7	T	Trichlorofluoromethane	50.000	48.052	3.9	109	0.00
8	T	Diethyl Ether	50.000	46.455	7.1	109	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.809	4.4	112	0.00
10	T	Methyl Iodide	50.000	49.834	0.3	128	0.00
11	T	Tert butyl alcohol	250.000	217.436	13.0	104	-0.01
12	CM	1,1-Dichloroethene	50.000	45.388	9.2#	110	0.00
13	T	Acrolein	250.000	186.734	25.3#	90	0.00
14	T	Allyl chloride	50.000	45.588	8.8	107	0.00
15	T	Acrylonitrile	250.000	221.979	11.2	102	0.00
16	T	Acetone	250.000	203.272	18.7	97	0.00
17	T	Carbon Disulfide	50.000	42.309	15.4	103	0.00
18	T	Methyl Acetate	50.000	47.598	4.8	107	0.00
19	T	Methyl tert-butyl Ether	50.000	46.997	6.0	108	0.00
20	T	Methylene Chloride	50.000	45.128	9.7	108	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.318	9.4	106	0.00
22	T	Diisopropyl ether	50.000	47.128	5.7	108	0.00
23	T	Vinyl Acetate	250.000	232.187	7.1	105	0.00
24	P	1,1-Dichloroethane	50.000	46.969	6.1	109	0.00
25	T	2-Butanone	250.000	213.448	14.6	99	0.00
26	T	2,2-Dichloropropane	50.000	49.468	1.1	113	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.037	5.9	109	0.00
28	T	Bromochloromethane	50.000	45.139	9.7	111	0.00
29	T	Tetrahydrofuran	250.000	217.111	13.2	101	0.00
30	C	Chloroform	50.000	47.649	4.7#	109	0.00
31	T	Cyclohexane	50.000	46.277	7.4	105	0.00
32	T	1,1,1-Trichloroethane	50.000	47.423	5.2	108	0.00
33	S	1,2-Dichloroethane-d4	50.000	46.219	7.6	115	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	115	0.00
35	S	Dibromofluoromethane	50.000	48.313	3.4	117	0.00
36	T	1,1-Dichloropropene	50.000	47.808	4.4	109	0.00
37	T	Ethyl Acetate	50.000	42.806	14.4	101	0.00
38	T	Carbon Tetrachloride	50.000	49.795	0.4	110	0.00
39	T	Methylcyclohexane	50.000	48.836	2.3	107	0.00
40	TM	Benzene	50.000	47.950	4.1	107	0.00
41	T	Methacrylonitrile	50.000	45.001	10.0	103	0.00
42	TM	1,2-Dichloroethane	50.000	48.570	2.9	109	0.00
43	T	Isopropyl Acetate	50.000	45.818	8.4	102	0.00
44	TM	Trichloroethene	50.000	47.367	5.3	108	0.00
45	C	1,2-Dichloropropane	50.000	48.871	2.3#	108	0.00
46	T	Dibromomethane	50.000	47.105	5.8	105	0.00
47	T	Bromodichloromethane	50.000	49.822	0.4	110	0.00
48	T	Methyl methacrylate	50.000	46.970	6.1	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021564.D
Acq On : 29 Mar 2021 09:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 30 03:22:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
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	906.575	9.3	101	0.00
50	S	Toluene-d8	50.000	47.456	5.1	111	0.00
51	T	4-Methyl-2-Pentanone	250.000	233.080	6.8	102	0.00
52	CM	Toluene	50.000	49.335	1.3#	108	0.00
53	T	t-1,3-Dichloropropene	50.000	49.918	0.2	108	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.627	-1.3	109	0.00
55	T	1,1,2-Trichloroethane	50.000	49.771	0.5	110	0.00
56	T	Ethyl methacrylate	50.000	43.632	12.7	103	0.00
57	T	1,3-Dichloropropane	50.000	48.285	3.4	106	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	251.396	-0.6	109	0.00
59	T	2-Hexanone	250.000	234.427	6.2	102	0.00
60	T	Dibromochloromethane	50.000	51.874	-3.7	112	0.00
61	T	1,2-Dibromoethane	50.000	48.093	3.8	104	0.00
62	S	4-Bromofluorobenzene	50.000	47.812	4.4	114	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	112	0.00
64	T	Tetrachloroethene	50.000	50.058	-0.1	109	0.00
65	PM	Chlorobenzene	50.000	48.525	3.0	106	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.913	-1.8	110	0.00
67	C	Ethyl Benzene	50.000	48.811	2.4#	105	0.00
68	T	m/p-Xylenes	100.000	101.708	-1.7	108	0.00
69	T	o-Xylene	50.000	49.609	0.8	107	0.00
70	T	Styrene	50.000	50.561	-1.1	109	0.00
71	P	Bromoform	50.000	50.696	-1.4	109	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	115	0.00
73	T	Isopropylbenzene	50.000	50.607	-1.2	109	0.00
74	T	N-amyl acetate	50.000	45.775	8.5	103	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	45.805	8.4	104	0.00
76	T	1,2,3-Trichloropropane	50.000	48.386	3.2	105	0.00
77	T	Bromobenzene	50.000	48.628	2.7	108	0.00
78	T	n-propylbenzene	50.000	50.463	-0.9	110	0.00
79	T	2-Chlorotoluene	50.000	49.124	1.8	108	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.716	-1.4	109	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.600	0.8	110	0.00
82	T	4-Chlorotoluene	50.000	48.991	2.0	108	0.00
83	T	tert-Butylbenzene	50.000	48.497	3.0	107	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.465	-0.9	109	0.00
85	T	sec-Butylbenzene	50.000	50.071	-0.1	107	0.00
86	T	p-Isopropyltoluene	50.000	51.136	-2.3	108	0.00
87	T	1,3-Dichlorobenzene	50.000	47.878	4.2	109	0.00
88	T	1,4-Dichlorobenzene	50.000	47.540	4.9	111	0.00
89	T	n-Butylbenzene	50.000	51.067	-2.1	110	0.00
90	T	Hexachloroethane	50.000	51.605	-3.2	115	0.00
91	T	1,2-Dichlorobenzene	50.000	47.723	4.6	109	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	43.932	12.1	105	0.00
93	T	1,2,4-Trichlorobenzene	50.000	50.390	-0.8	113	0.00
94	T	Hexachlorobutadiene	50.000	49.176	1.6	113	0.00
95	T	Naphthalene	50.000	48.689	2.6	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021564.D
Acq On : 29 Mar 2021 09:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 30 03:22:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	49.946	0.1	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

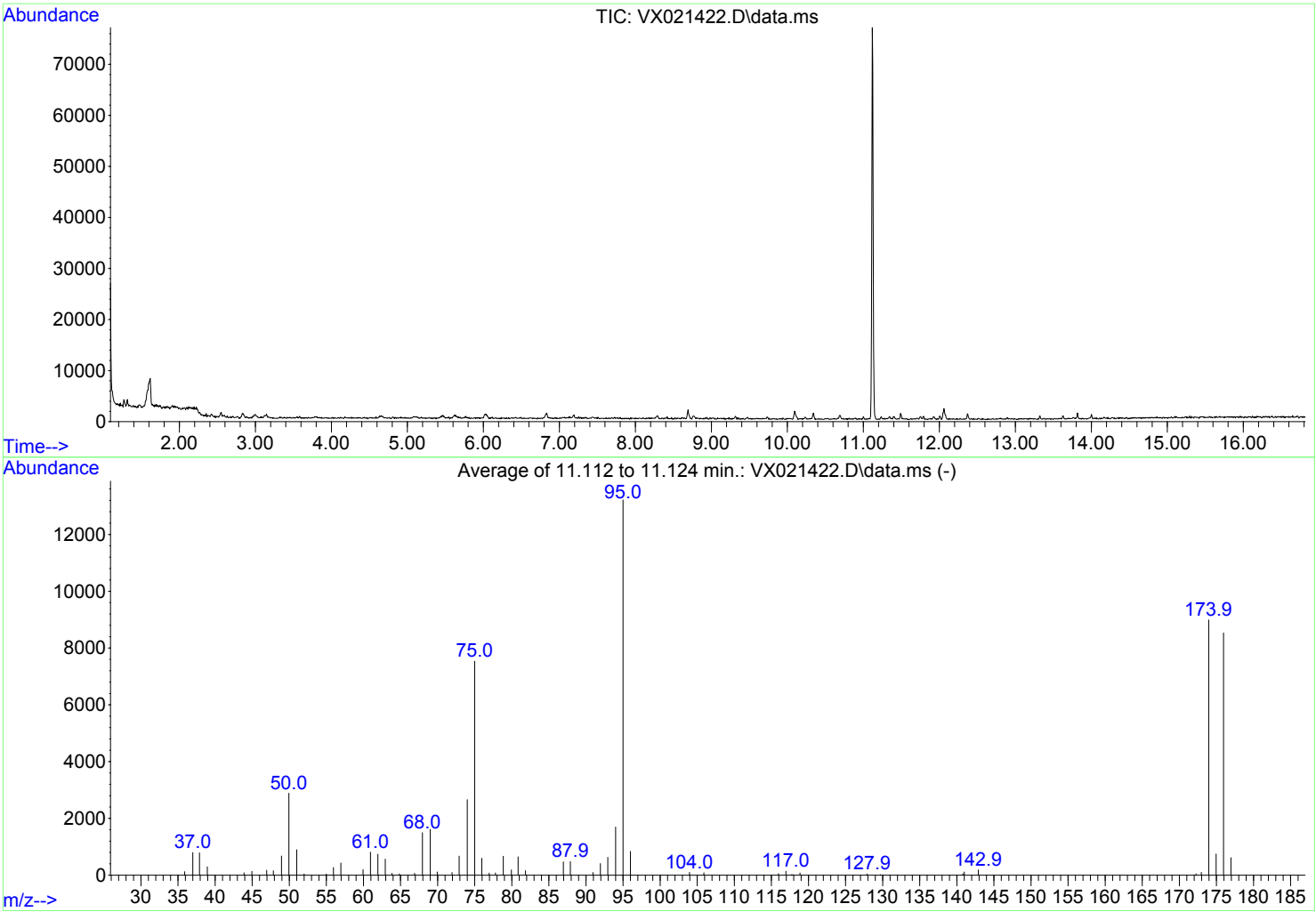
Sample Results: **VX021422.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032421\
Data File : VX021422.D
Acq On : 24 Mar 2021 08:21
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260
Last Update : Wed Mar 24 12:25:26 2021



Spectrum Information: Average of 11.112 to 11.124 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	2888	PASS
75	95	30	60	57.0	7536	PASS
95	95	100	100	100.0	13217	PASS
96	95	5	9	6.3	838	PASS
173	174	0.00	2	1.1	98	PASS
174	95	50	100	68.0	8991	PASS
175	174	5	9	8.3	746	PASS
176	174	95	101	94.9	8535	PASS
177	176	5	9	7.3	619	PASS

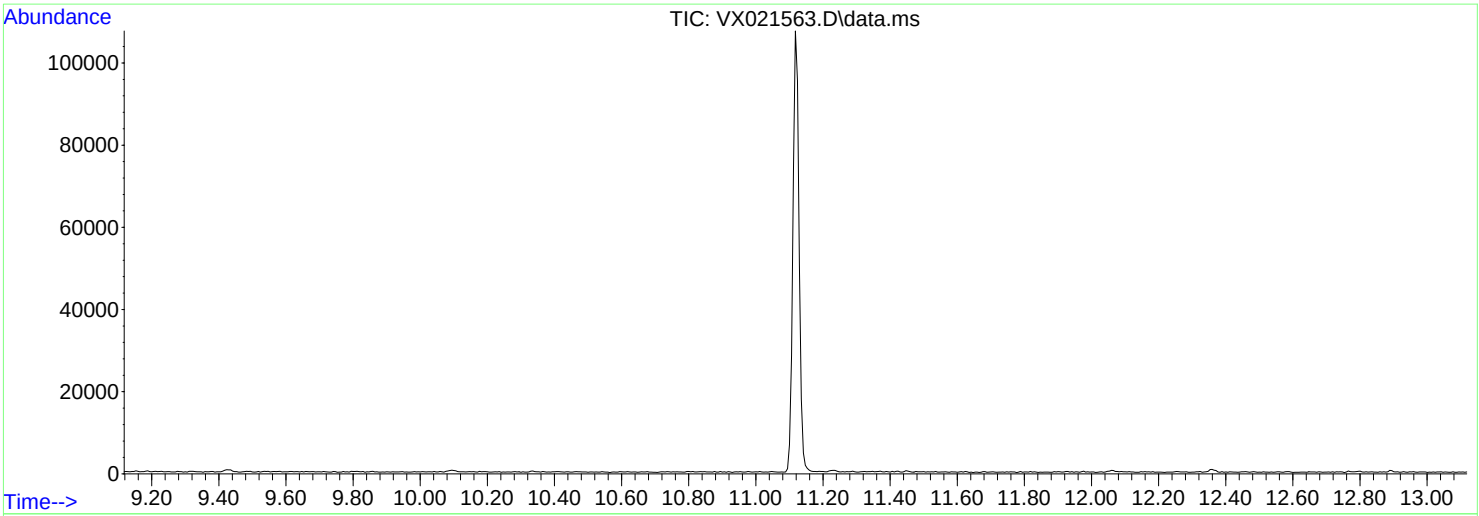
Sample Results: **VX021563.D**

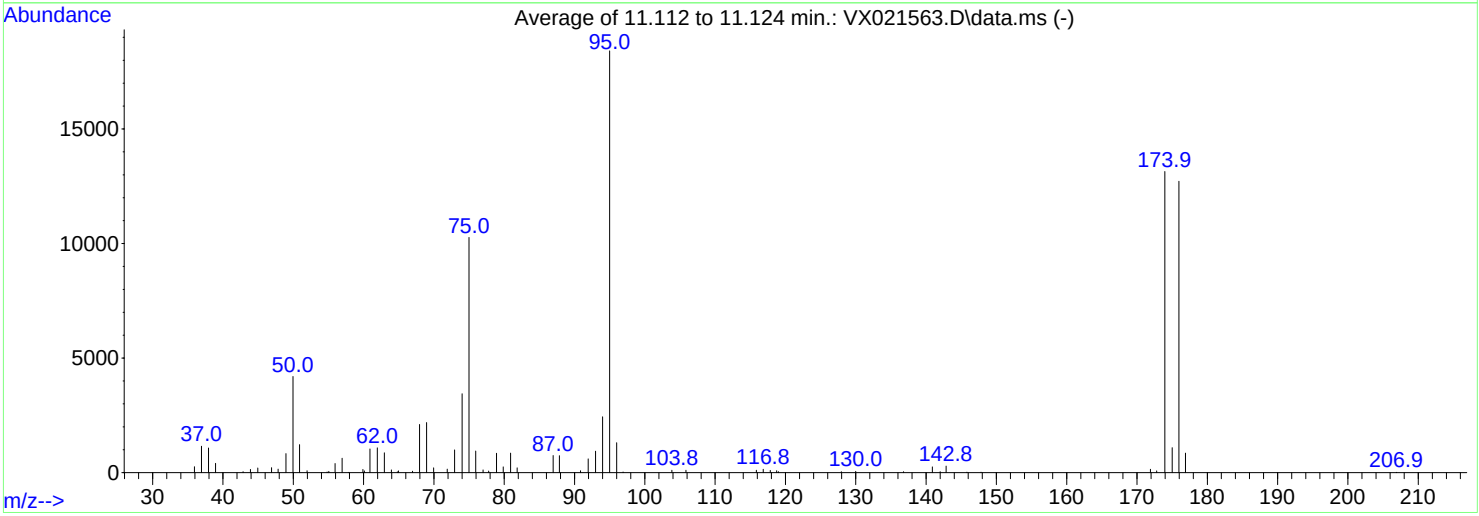
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021563.D
Acq On : 29 Mar 2021 09:02
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260
Last Update : Wed Mar 24 12:25:26 2021





AutoFind: Scans 1704, 1705, 1706; Background Corrected with Scan 1698

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	4200	PASS
75	95	30	60	55.8	10266	PASS
95	95	100	100	100.0	18410	PASS
96	95	5	9	7.1	1308	PASS
173	174	0.00	2	0.6	75	PASS
174	95	50	100	71.4	13141	PASS
175	174	5	9	8.3	1090	PASS
176	174	95	101	96.8	12718	PASS
177	176	5	9	6.7	852	PASS

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Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	
Client Sample ID:	VX0329WBL01	SDG No.:	M1785
Lab Sample ID:	VX0329WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021565.D	1		03/29/21 10:36	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00	U	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

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Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	
Client Sample ID:	VX0329WBL01	SDG No.:	M1785
Lab Sample ID:	VX0329WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021565.D	1		03/29/21 10:36	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
1330-20-7	Total Xylenes	3.00	U	0.51	3.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.23	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
123-91-1	1,4-Dioxane	100	U	7.00	100	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.4		78 - 117	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.1		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.7		83 - 123	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	66200	5.623			
540-36-3	1,4-Difluorobenzene	120000	6.829			

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Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	
Client Sample ID:	VX0329WBL01	SDG No.:	M1785
Lab Sample ID:	VX0329WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021565.D	1		03/29/21 10:36	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
3114-55-4	Chlorobenzene-d5	126000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	57800	12.059			

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_X\Data\VX032921\
Data File : VX021565.D
Acq On : 29 Mar 2021 10:36
Operator : JC/MD
Sample : VX0329WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : VX0329WBL01

Quant Time: Mar 30 03:23:38 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

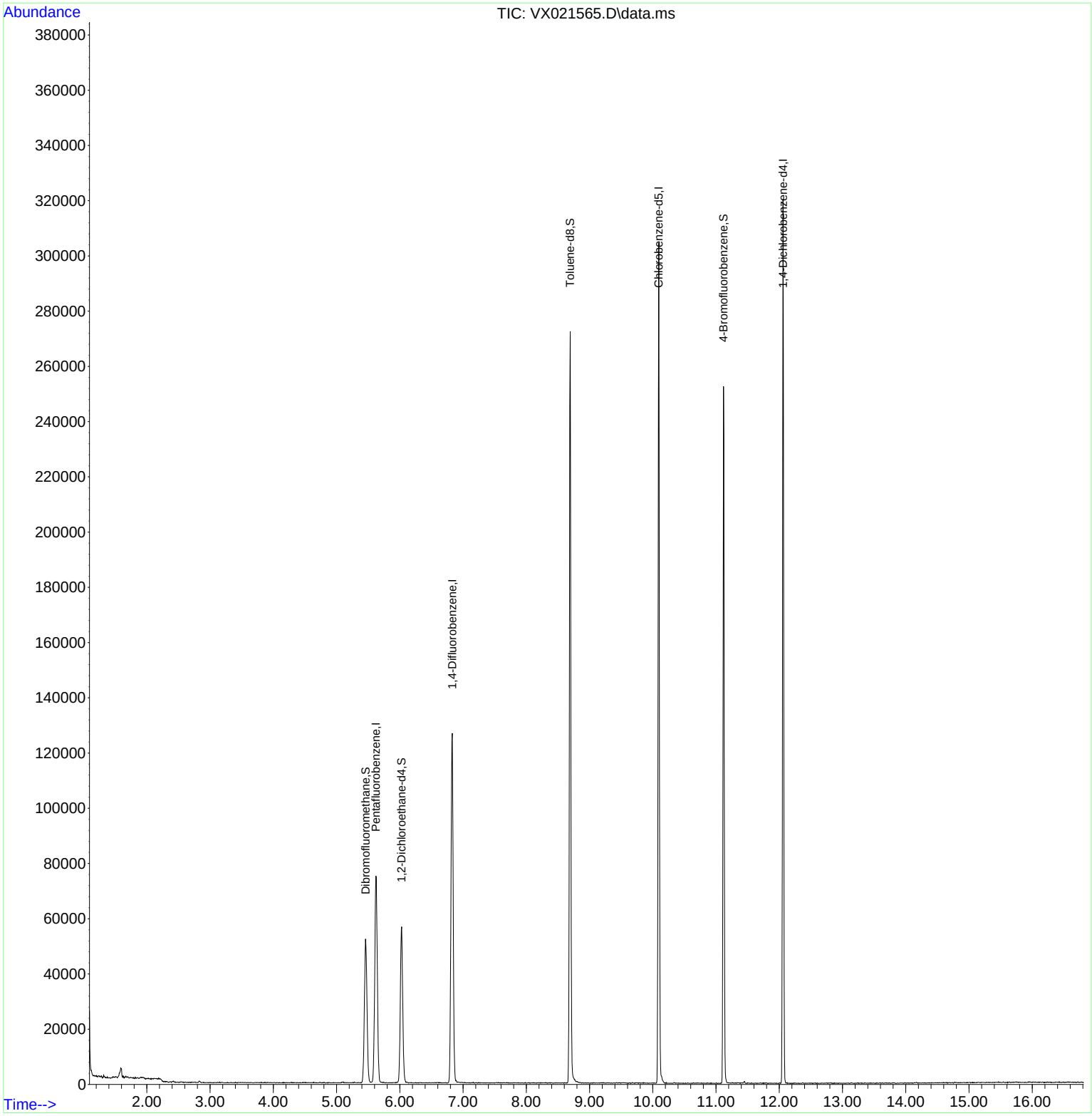
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.623	168	66153	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.829	114	120176	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.094	117	126472	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	57784	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.029	65	55523	50.44	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.88%			
35) Dibromofluoromethane	5.458	113	42686	50.00	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.00%			
50) Toluene-d8	8.694	98	152275	50.06	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.12%			
62) 4-Bromofluorobenzene	11.118	95	63508	53.70	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.40%			
Target Compounds						Qvalue

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

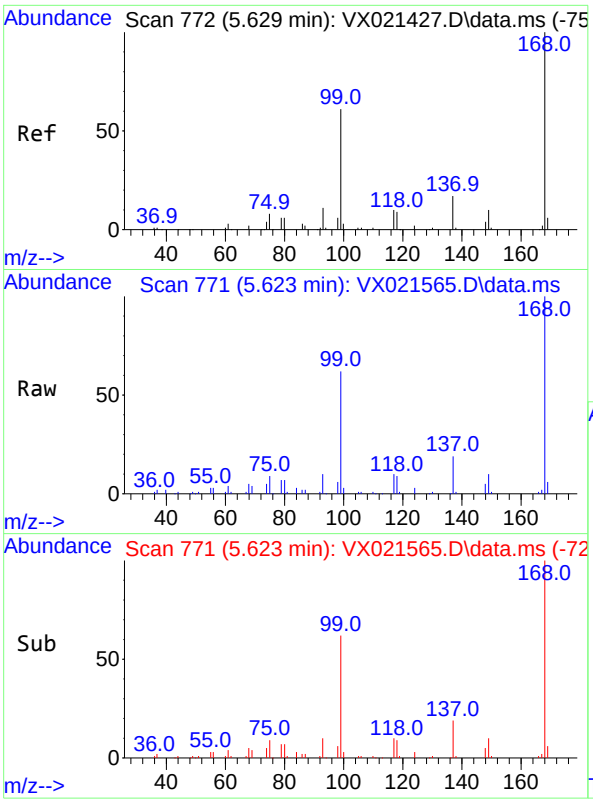
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021565.D
Acq On : 29 Mar 2021 10:36
Operator : JC/MD
Sample : VX0329WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0329WBL01

Quant Time: Mar 30 03:23:38 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration



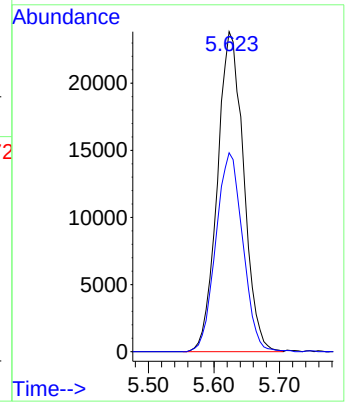
Instrument :
MSVOA_X
ClientSampleId :
VX0329WBL01

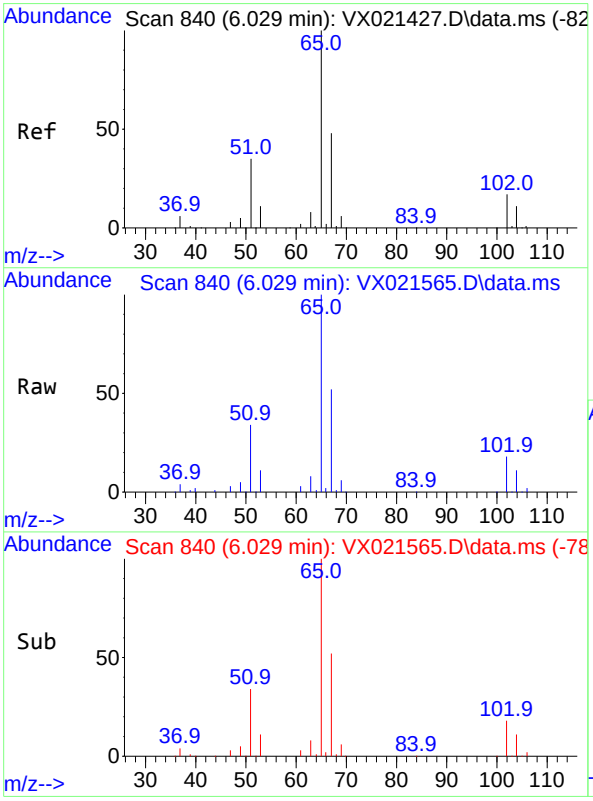


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 771
Delta R.T. -0.006 min
Lab File: VX021565.D
Acq: 29 Mar 2021 10:36

Tgt Ion:168 Resp: 66153

Ion	Ratio	Lower	Upper
168	100		
99	62.2	45.8	68.6

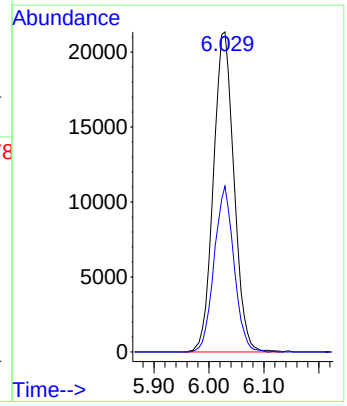




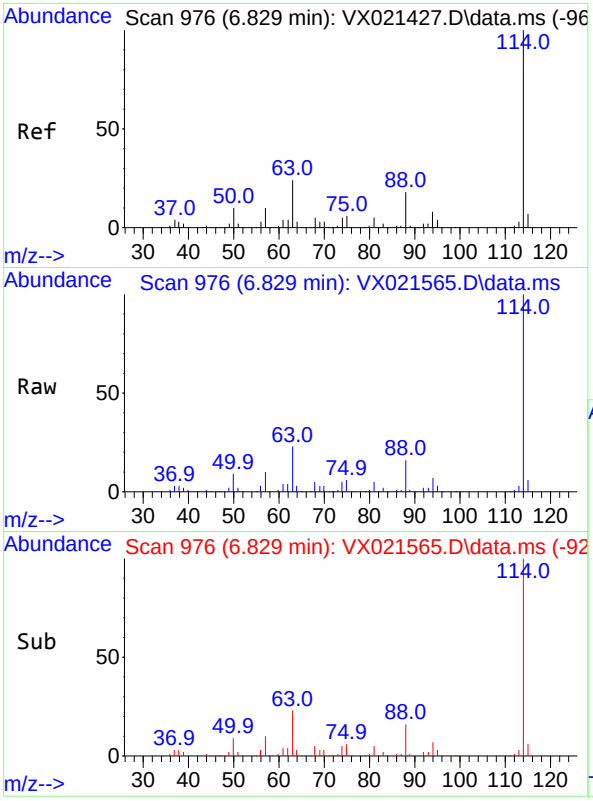
#33
1,2-Dichloroethane-d4
Concen: 50.44 ug/l
RT: 6.029 min Scan# 840
Delta R.T. 0.000 min
Lab File: VX021565.D
Acq: 29 Mar 2021 10:36

Tgt Ion: 65 Resp: 55523

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	105.4



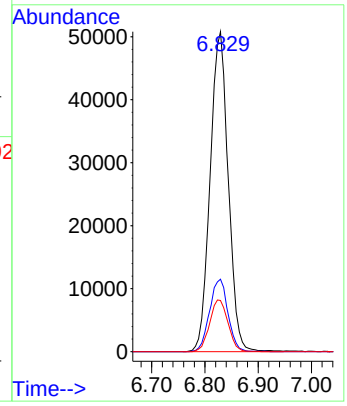
Instrument :
MSVOA_X
ClientSampleId :
VX0329WBL01

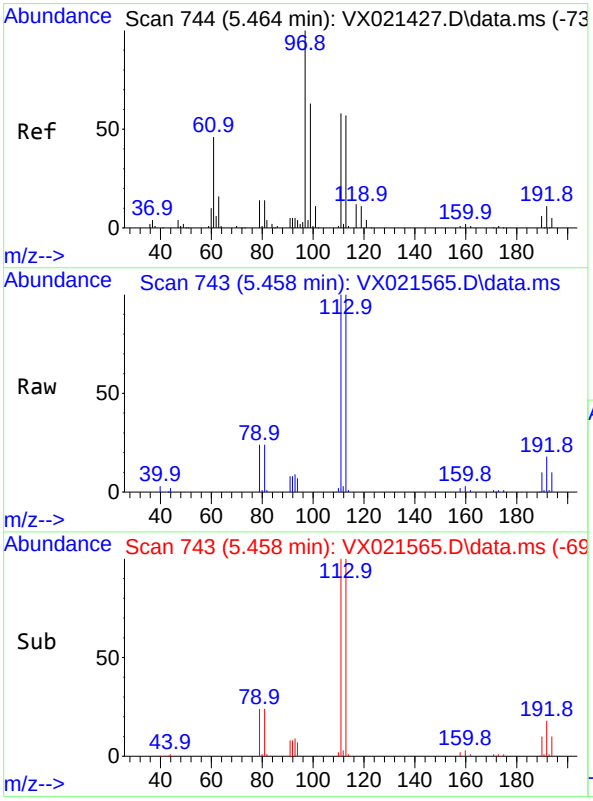


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021565.D
Acq: 29 Mar 2021 10:36

Tgt Ion:114 Resp: 120176

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	40.8
88	16.0	0.0	32.8

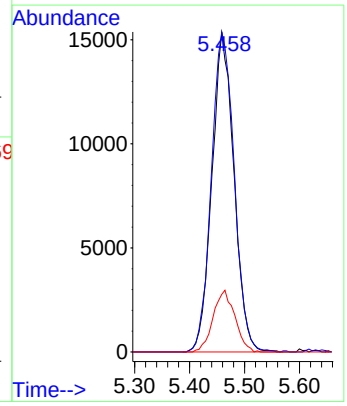




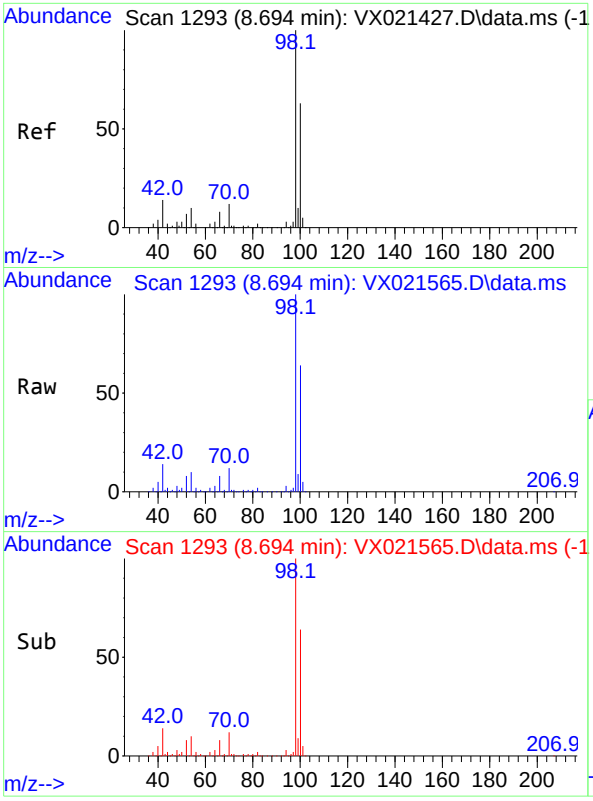
#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 5.458 min Scan# 743
Delta R.T. -0.006 min
Lab File: VX021565.D
Acq: 29 Mar 2021 10:36

Tgt Ion:113 Resp: 42686

Ion	Ratio	Lower	Upper
113	100		
111	104.0	81.9	122.9
192	19.1	16.7	25.1



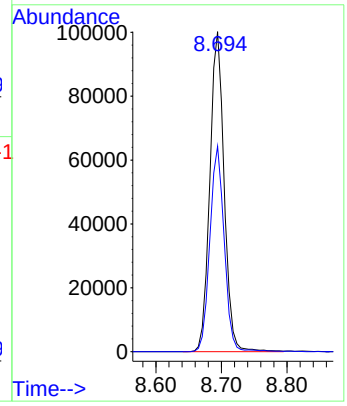
Instrument :
MSVOA_X
ClientSampleId :
VX0329WBL01

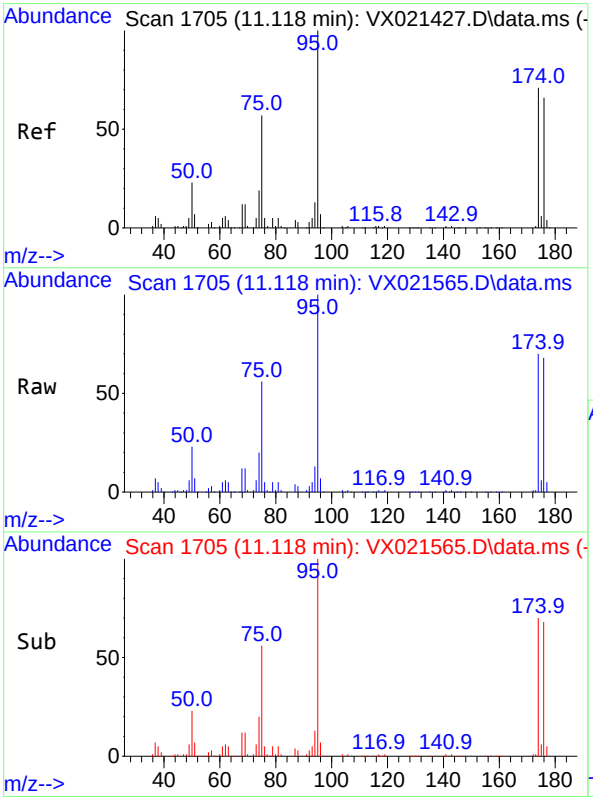


#50
Toluene-d8
Concen: 50.06 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021565.D
Acq: 29 Mar 2021 10:36

Tgt Ion: 98 Resp: 152275

Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.9	77.9

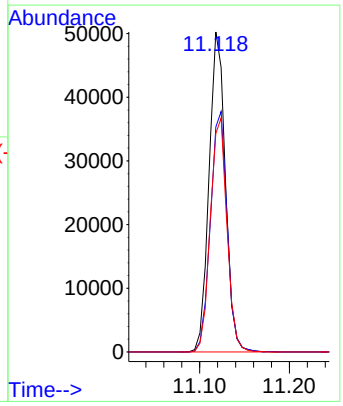




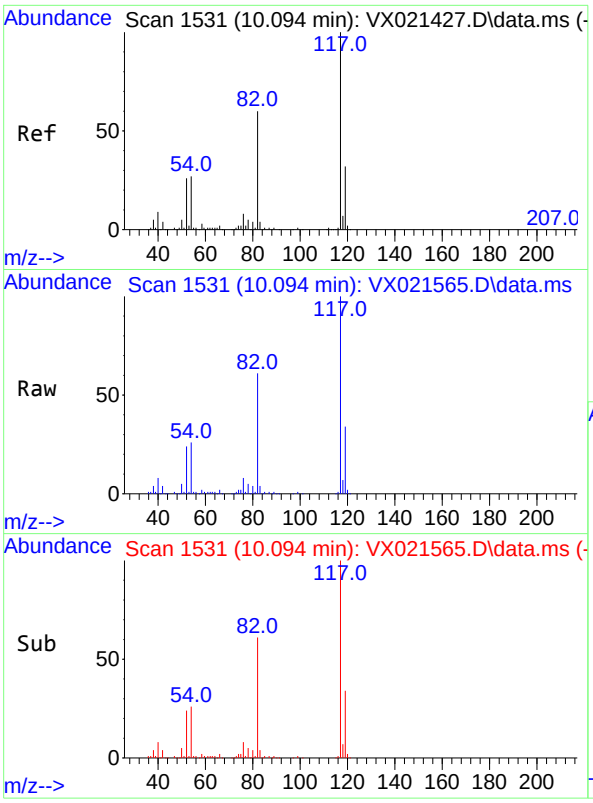
#62
4-Bromofluorobenzene
Concen: 53.70 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021565.D
Acq: 29 Mar 2021 10:36

Tgt Ion: 95 Resp: 63508

Ion	Ratio	Lower	Upper
95	100		
174	76.7	0.0	154.6
176	74.3	0.0	155.8



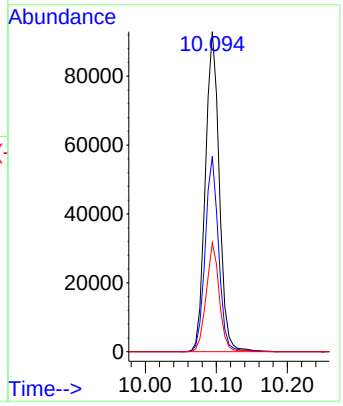
Instrument :
MSVOA_X
ClientSampleId :
VX0329WBL01

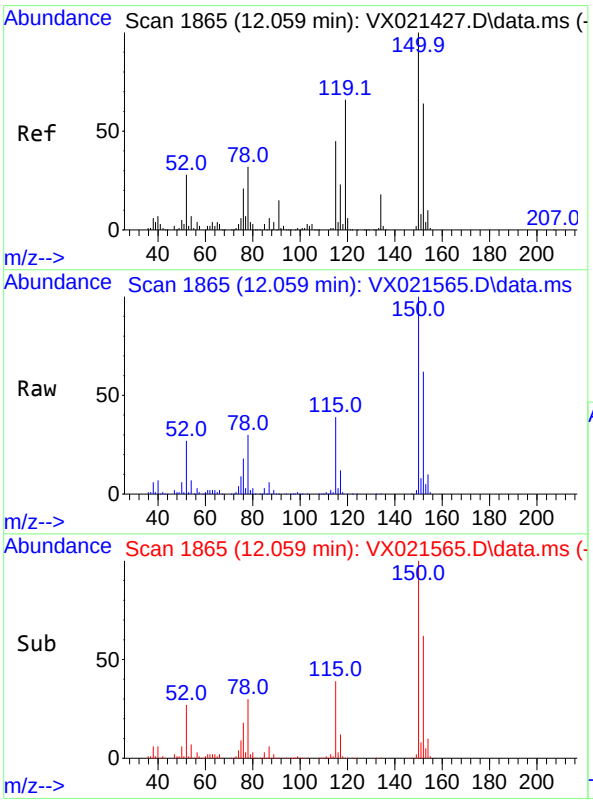


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021565.D
Acq: 29 Mar 2021 10:36

Tgt Ion:117 Resp: 126472

Ion	Ratio	Lower	Upper
117	100		
82	61.0	47.4	71.2
119	34.0	26.6	39.8

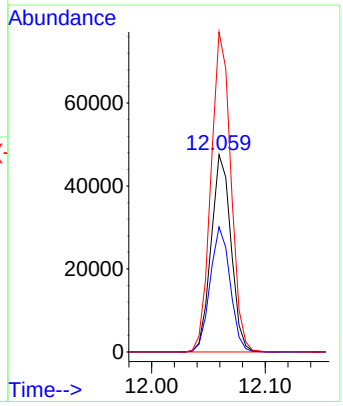




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021565.D
Acq: 29 Mar 2021 10:36

Tgt Ion:152 Resp: 57784

Ion	Ratio	Lower	Upper
152	100		
115	63.9	41.1	123.3
150	162.4	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021565.D
Acq On : 29 Mar 2021 10:36
Operator : JC/MD
Sample : VX0329WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0329WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Title : SW846 8260

Signal : TIC: VX021565.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.587	79	85	91	rVB3	3310	6698	1.58%	0.284%
2	5.458	732	743	758	rBV2	52097	147526	34.86%	6.247%
3	5.623	758	771	785	rVV	74748	210495	49.74%	8.913%
4	6.029	828	840	853	rBV	56386	146111	34.53%	6.187%
5	6.829	963	976	989	rBV	126683	303289	71.67%	12.842%
6	8.694	1284	1293	1308	rBV	272247	423185	100.00%	17.919%
7	10.094	1525	1531	1547	rVB	304301	410549	97.01%	17.384%
8	11.118	1699	1705	1715	rBV	252324	325300	76.87%	13.774%
9	12.059	1860	1865	1874	rVB	320137	388506	91.81%	16.451%

Sum of corrected areas: 2361659

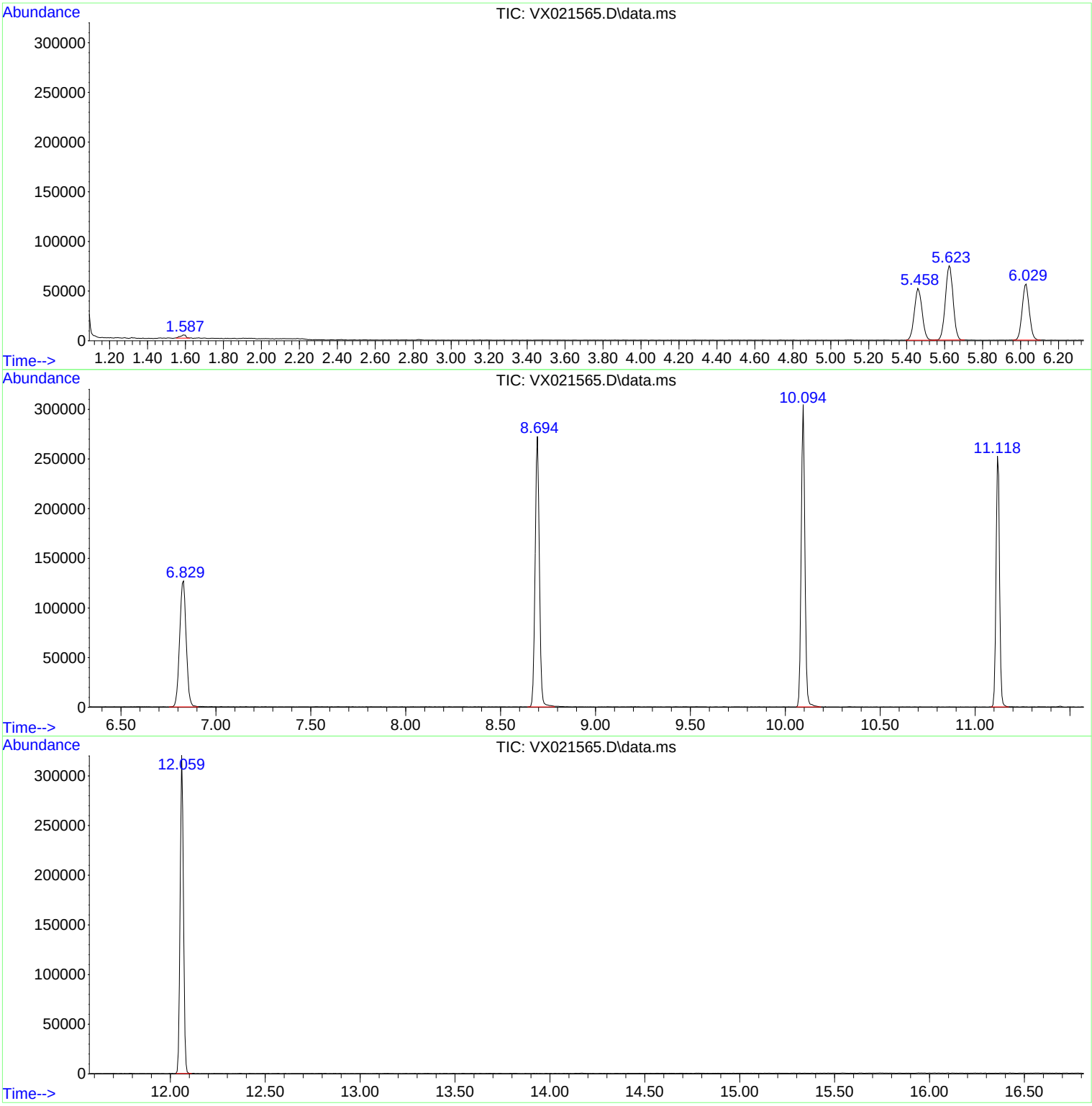
Sample Results: **VX021565.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021565.D
Acq On : 29 Mar 2021 10:36
Operator : JC/MD
Sample : VX0329WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0329WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021565.D
Acq On : 29 Mar 2021 10:36
Operator : JC/MD
Sample : VX0329WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0329WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021565.D
Acq On : 29 Mar 2021 10:36
Operator : JC/MD
Sample : VX0329WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0329WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	
Client Sample ID:	VX0329WBS01	SDG No.:	M1785
Lab Sample ID:	VX0329WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021566.D	1		03/29/21 10:59	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.4		0.23	1.00	ug/L
74-87-3	Chloromethane	18.6		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	19.1		0.19	1.00	ug/L
74-83-9	Bromomethane	23.5		0.87	5.00	ug/L
75-00-3	Chloroethane	18.7		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.4		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.6		0.26	1.00	ug/L
67-64-1	Acetone	94.1		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	17.0		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.4		0.22	1.00	ug/L
79-20-9	Methyl Acetate	20.8		0.47	1.00	ug/L
75-09-2	Methylene Chloride	18.6		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.5		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.7		0.21	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.30	5.00	ug/L
78-93-3	2-Butanone	94.8		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.1		0.22	1.00	ug/L
74-97-5	Bromochloromethane	20.7		0.26	1.00	ug/L
67-66-3	Chloroform	19.7		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.6		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	18.5		0.14	1.00	ug/L
71-43-2	Benzene	19.7		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.2		0.25	1.00	ug/L
79-01-6	Trichloroethene	19.3		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.9		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	20.2		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	99.7		0.87	5.00	ug/L
108-88-3	Toluene	19.9		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.4		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.9		0.17	1.00	ug/L

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Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	
Client Sample ID:	VX0329WBS01	SDG No.:	M1785
Lab Sample ID:	VX0329WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021566.D	1		03/29/21 10:59	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	20.1		0.24	1.00	ug/L
591-78-6	2-Hexanone	98.8		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	20.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.8		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	20.3		0.17	1.00	ug/L
108-90-7	Chlorobenzene	19.2		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.18	1.00	ug/L
1330-20-7	Total Xylenes	59.0		0.51	3.00	ug/L
100-42-5	Styrene	19.2		0.16	1.00	ug/L
75-25-2	Bromoform	20.2		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	20.2		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.1		0.29	1.00	ug/L
103-65-1	n-propylbenzene	20.1		0.24	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	20.4		0.25	1.00	ug/L
98-06-6	tert-Butylbenzene	19.8		0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.2		0.20	1.00	ug/L
135-98-8	sec-Butylbenzene	20.0		0.23	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.8		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.2		0.20	1.00	ug/L
104-51-8	n-Butylbenzene	18.6		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.4		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.5		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.0		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.1		0.35	1.00	ug/L
123-91-1	1,4-Dioxane	400		7.00	100	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		78 - 117	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.9		92 - 112	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		83 - 123	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	89700	5.623			
540-36-3	1,4-Difluorobenzene	146000	6.829			

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

Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	
Client Sample ID:	VX0329WBS01	SDG No.:	M1785
Lab Sample ID:	VX0329WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021566.D	1		03/29/21 10:59	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
3114-55-4	Chlorobenzene-d5	138000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	65600	12.059			

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_X\Data\VX032921\
Data File : VX021566.D
Acq On : 29 Mar 2021 10:59
Operator : JC/MD
Sample : VX0329WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : VX0329WBS01

Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

Quant Time: Mar 30 03:23:55 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.623	168	89704	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	146257	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	138179	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	65643	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.029	65	74284	49.77	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.54%				
35) Dibromofluoromethane	5.464	113	52530	50.56	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.12%				
50) Toluene-d8	8.694	98	188512	50.92	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.84%				
62) 4-Bromofluorobenzene	11.118	95	71760	49.86	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.187	85	18128	18.39	ug/l		98
3) Chloromethane	1.311	50	21023	18.57	ug/l		98
4) Vinyl Chloride	1.393	62	19239	19.08	ug/l		99
5) Bromomethane	1.623	94	9551	23.53	ug/l		99
6) Chloroethane	1.705	64	11982	18.73	ug/l		97
7) Trichlorofluoromethane	1.911	101	31846	19.42	ug/l		98
8) Diethyl Ether	2.170	74	10829	19.03	ug/l		72
9) 1,1,2-Trichlorotrifluo...	2.364	101	17816	19.30	ug/l		97
10) Methyl Iodide	2.487	142	14275	23.81	ug/l	#	89
11) Tert butyl alcohol	3.017	59	23633	95.78	ug/l		96
12) 1,1-Dichloroethene	2.352	96	16830	18.62	ug/l		88
13) Acrolein	2.270	56	8504	71.45	ug/l		99
14) Allyl chloride	2.705	41	34473	18.79	ug/l	#	88
15) Acrylonitrile	3.117	53	56684	96.66	ug/l		97
16) Acetone	2.423	43	53114	94.12	ug/l		90
17) Carbon Disulfide	2.546	76	43030	16.95	ug/l		99
18) Methyl Acetate	2.746	43	33973	20.84	ug/l		90
19) Methyl tert-butyl Ether	3.164	73	65333	19.35	ug/l		99
20) Methylene Chloride	2.834	84	20496	18.61	ug/l		88
21) trans-1,2-Dichloroethene	3.140	96	18412	18.54	ug/l		92
22) Diisopropyl ether	3.823	45	69356	19.45	ug/l		93
23) Vinyl Acetate	3.782	43	286871	95.13	ug/l	#	92
24) 1,1-Dichloroethane	3.670	63	37779	19.66	ug/l		98
25) 2-Butanone	4.635	43	81056	94.75	ug/l		90
26) 2,2-Dichloropropane	4.552	77	32141	19.30	ug/l		96
27) cis-1,2-Dichloroethene	4.564	96	22049	19.12	ug/l		90
28) Bromochloromethane	4.982	49	19930	20.71	ug/l		82
29) Tetrahydrofuran	5.088	42	52042	93.83	ug/l		87
30) Chloroform	5.176	83	39901	19.67	ug/l		99
31) Cyclohexane	5.547	56	30431	18.54	ug/l		93
32) 1,1,1-Trichloroethane	5.464	97	35267	19.62	ug/l		96
36) 1,1-Dichloropropene	5.764	75	27360	19.09	ug/l		97
37) Ethyl Acetate	4.794	43	30400	18.35	ug/l	#	93
38) Carbon Tetrachloride	5.752	117	30918	20.08	ug/l		99
39) Methylcyclohexane	7.441	83	29397	18.50	ug/l		95
40) Benzene	6.111	78	80058	19.67	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021566.D
Acq On : 29 Mar 2021 10:59
Operator : JC/MD
Sample : VX0329WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 03:23:55 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

Manual Integrations APPROVED
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3/31/2021 9:41:34 AM

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.999	41	17703	18.42	ug/l		88
42) 1,2-Dichloroethane	6.158	62	35590	20.17	ug/l		94
43) Isopropyl Acetate	6.411	43	51001	18.96	ug/l	#	91
44) Trichloroethene	7.188	130	20670	19.25	ug/l		83
45) 1,2-Dichloropropane	7.488	63	21909	19.87	ug/l		95
46) Dibromomethane	7.635	93	16100	20.04	ug/l		92
47) Bromodichloromethane	7.870	83	33055	20.22	ug/l	#	99
48) Methyl methacrylate	7.741	41	27512	19.17	ug/l	#	81
49) 1,4-Dioxane	7.712	88	10253	399.02	ug/l	#	87
51) 4-Methyl-2-Pentanone	8.618	43	164938	99.67	ug/l		88
52) Toluene	8.765	92	50109	19.94	ug/l		99
53) t-1,3-Dichloropropene	9.024	75	32092	19.44	ug/l		96
54) cis-1,3-Dichloropropene	8.412	75	34896	19.86	ug/l	#	85
55) 1,1,2-Trichloroethane	9.194	97	21357	20.13	ug/l		93
56) Ethyl methacrylate	9.159	69	30897	18.61	ug/l	#	76
57) 1,3-Dichloropropane	9.353	76	36148	19.91	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.288	63	87464	97.55	ug/l		94
59) 2-Hexanone	9.471	43	122813	98.83	ug/l		86
60) Dibromochloromethane	9.565	129	24174	20.34	ug/l		97
61) 1,2-Dibromoethane	9.653	107	22616	19.84	ug/l		100
64) Tetrachloroethene	9.318	164	18750	20.26	ug/l	#	87
65) Chlorobenzene	10.118	112	53184	19.16	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.200	131	21561	20.27	ug/l		98
67) Ethyl Benzene	10.235	91	97158	19.20	ug/l		100
68) m/p-Xylenes	10.341	106	70986	39.38	ug/l		95
69) o-Xylene	10.683	106	34158	19.56	ug/l		96
70) Styrene	10.694	104	57638	19.20	ug/l		95
71) Bromoform	10.836	173	17442	20.18	ug/l	#	98
73) Isopropylbenzene	11.000	105	93349	20.24	ug/l		99
74) N-amyl acetate	10.877	43	42517	19.05	ug/l	#	89
75) 1,1,2,2-Tetrachloroethane	11.253	83	32807	20.13	ug/l		99
76) 1,2,3-Trichloropropane	11.277	75	32295m	21.13	ug/l		
77) Bromobenzene	11.236	156	23230	20.32	ug/l		97
78) n-propylbenzene	11.341	91	109704	20.14	ug/l		97
79) 2-Chlorotoluene	11.406	91	64829	19.62	ug/l		99
80) 1,3,5-Trimethylbenzene	11.489	105	80414	20.41	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.059	75	9727	19.39	ug/l	#	81
82) 4-Chlorotoluene	11.494	91	77619	19.79	ug/l		96
83) tert-Butylbenzene	11.753	119	75831	19.77	ug/l		92
84) 1,2,4-Trimethylbenzene	11.789	105	80349	20.23	ug/l		97
85) sec-Butylbenzene	11.930	105	88533	20.01	ug/l		100
86) p-Isopropyltoluene	12.047	119	79017	19.62	ug/l		96
87) 1,3-Dichlorobenzene	12.006	146	40769	19.80	ug/l		98
88) 1,4-Dichlorobenzene	12.083	146	40922	19.21	ug/l		97
89) n-Butylbenzene	12.371	91	68727	18.62	ug/l		97
90) Hexachloroethane	12.577	117	14623	20.11	ug/l		91
91) 1,2-Dichlorobenzene	12.371	146	38859	19.41	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	12.983	75	7477	19.46	ug/l		81
93) 1,2,4-Trichlorobenzene	13.630	180	24944	19.01	ug/l		97
94) Hexachlorobutadiene	13.765	225	11525	19.46	ug/l		96
95) Naphthalene	13.812	128	83384	19.49	ug/l		100
96) 1,2,3-Trichlorobenzene	14.001	180	25072	19.12	ug/l		96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021566.D
Acq On : 29 Mar 2021 10:59
Operator : JC/MD
Sample : VX0329WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 03:23:55 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

Manual Integrations APPROVED
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3/31/2021 9:41:34 AM

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

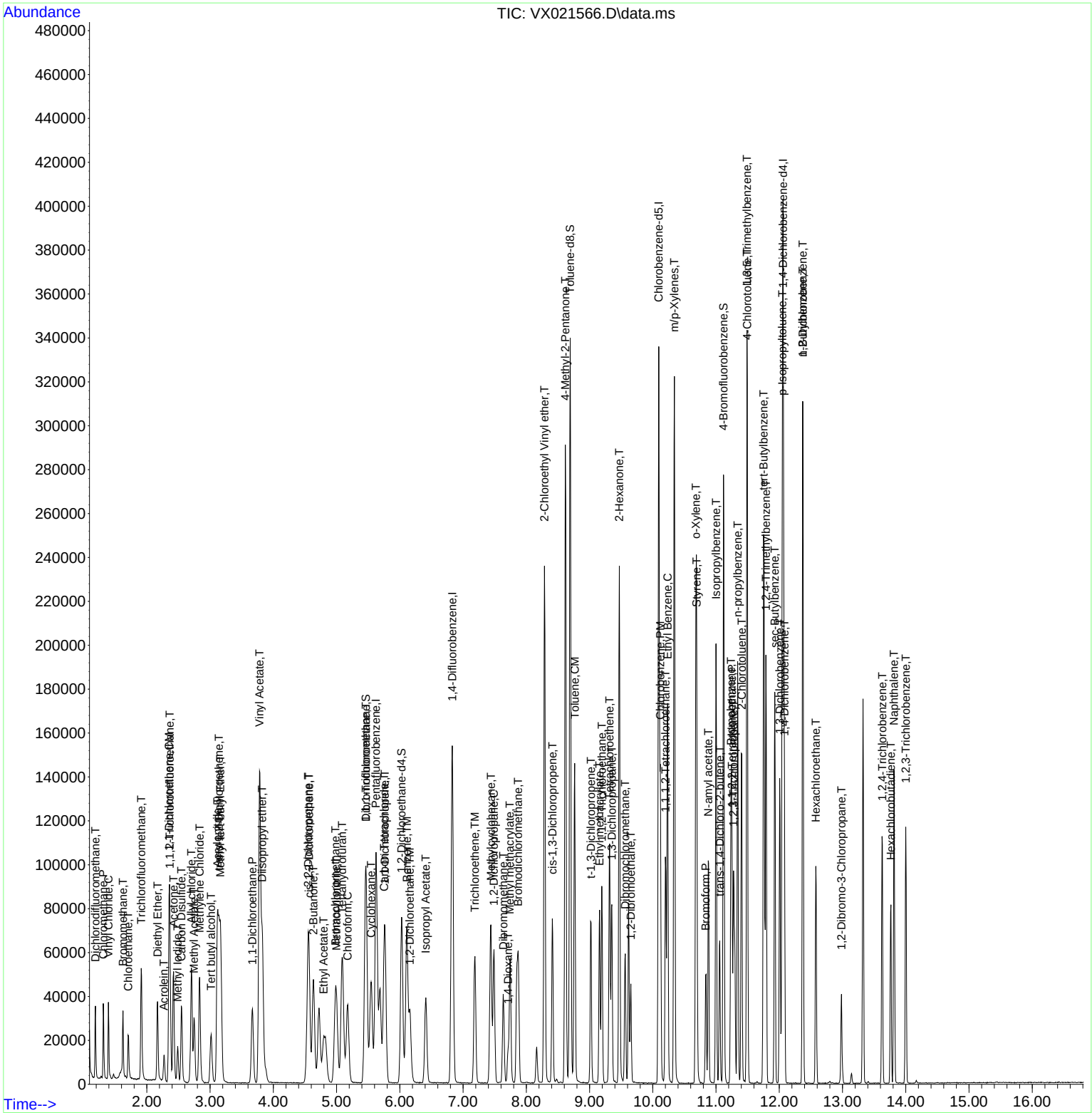
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021566.D
Acq On : 29 Mar 2021 10:59
Operator : JC/MD
Sample : VX0329WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 03:23:55 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

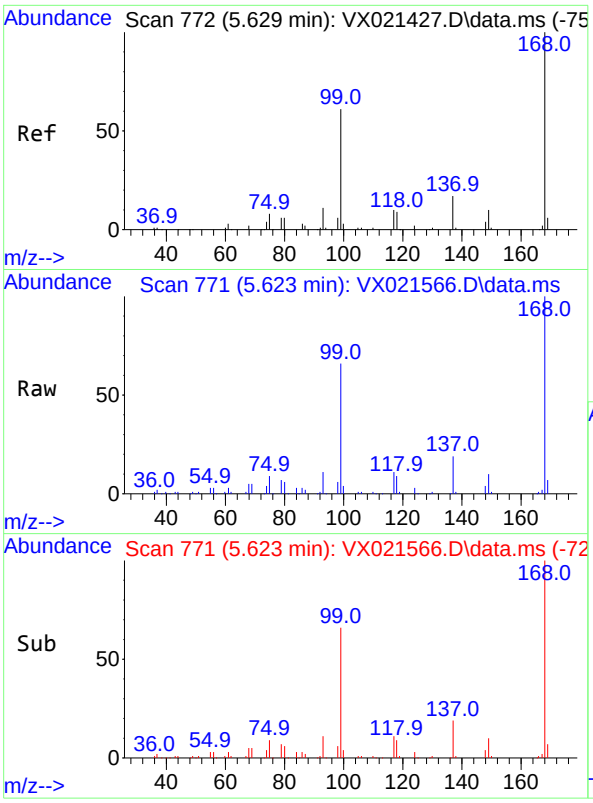
Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

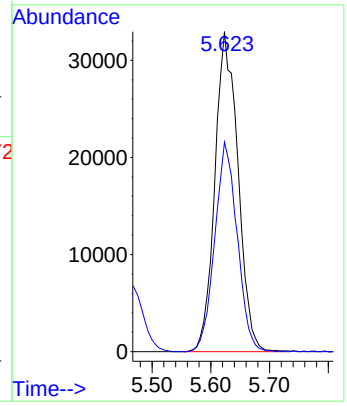
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

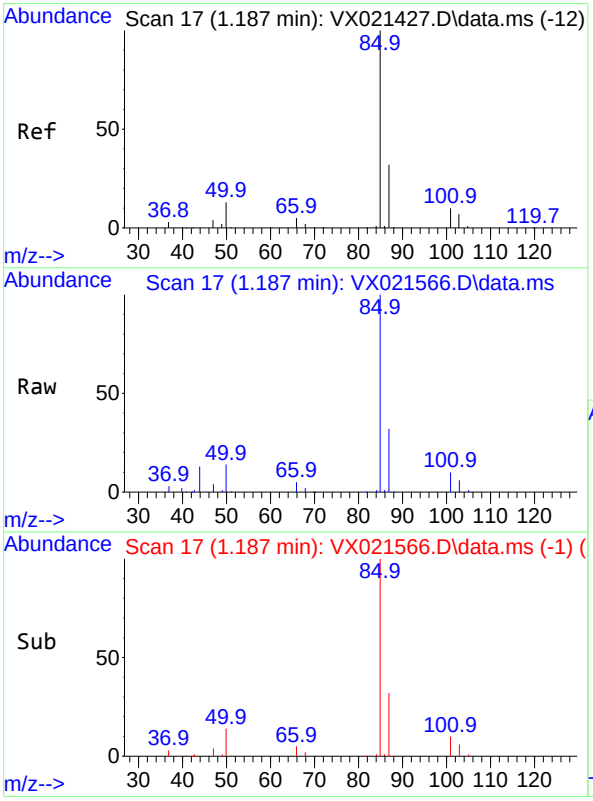


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.623 min Scan# 771
Delta R.T. -0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:168 Resp: 89704

Ion	Ratio	Lower	Upper
168	100		
99	65.5	45.8	68.6

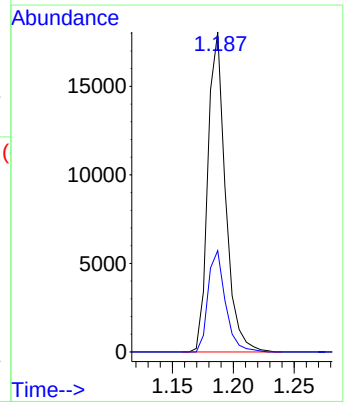




#2
Dichlorodifluoromethane
Concen: 18.39 ug/l
RT: 1.187 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

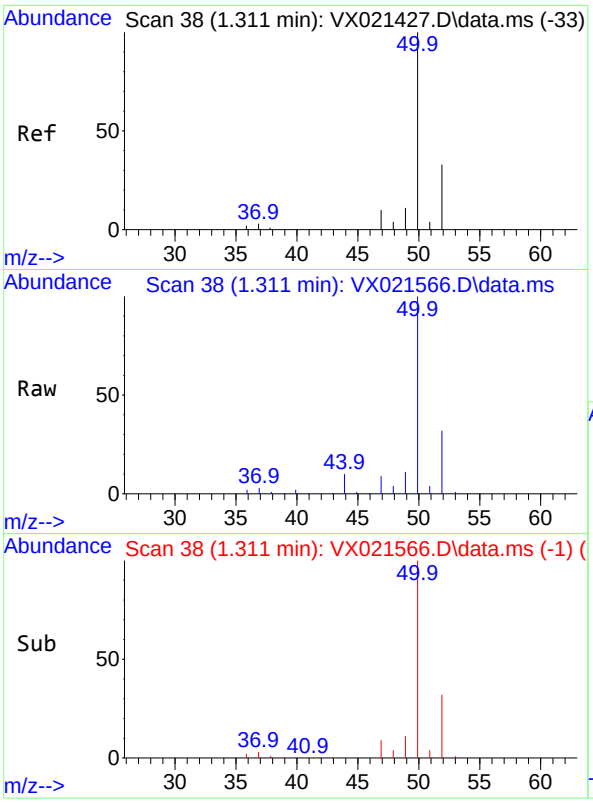
Tgt Ion: 85 Resp: 18128

Ion	Ratio	Lower	Upper
85	100		
87	31.6	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

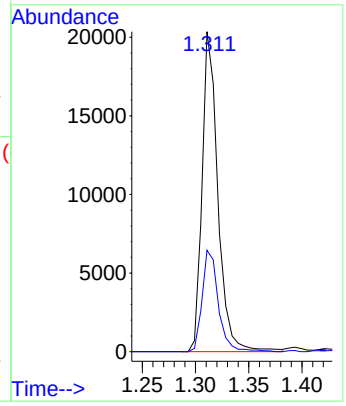
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

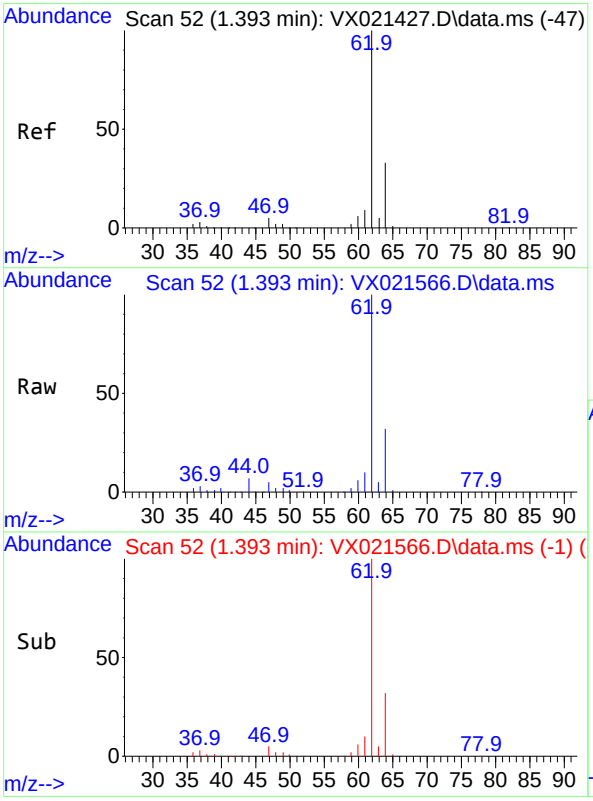


#3
Chloromethane
Concen: 18.57 ug/l
RT: 1.311 min Scan# 38
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 50 Resp: 21023

Ion	Ratio	Lower	Upper
50	100		
52	31.7	26.4	39.6

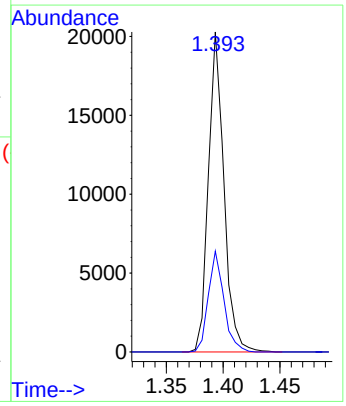




#4
Vinyl Chloride
Concen: 19.08 ug/l
RT: 1.393 min Scan# 52
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

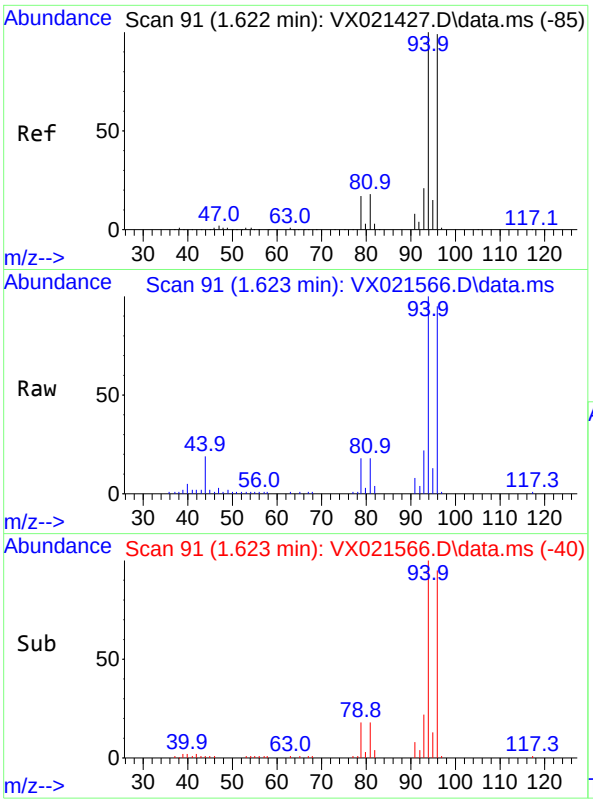
Tgt Ion: 62 Resp: 19239

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

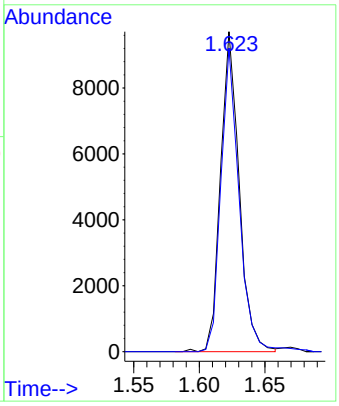
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

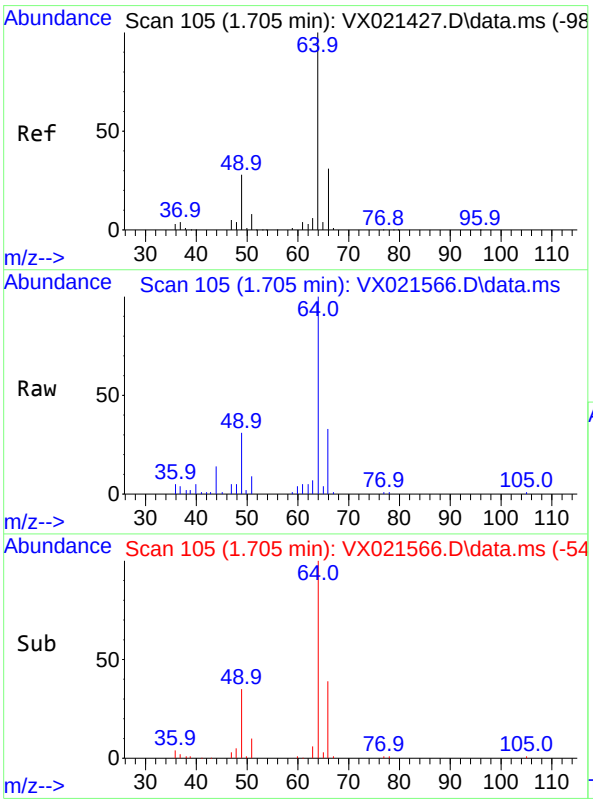


#5
Bromomethane
Concen: 23.53 ug/l
RT: 1.623 min Scan# 91
Delta R.T. 0.001 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 94 Resp: 9551

Ion	Ratio	Lower	Upper
94	100		
96	94.9	76.4	114.6

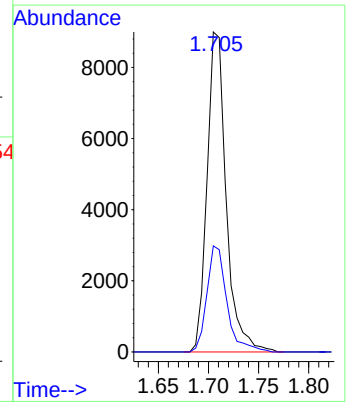




#6
Chloroethane
Concen: 18.73 ug/l
RT: 1.705 min Scan# 105
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

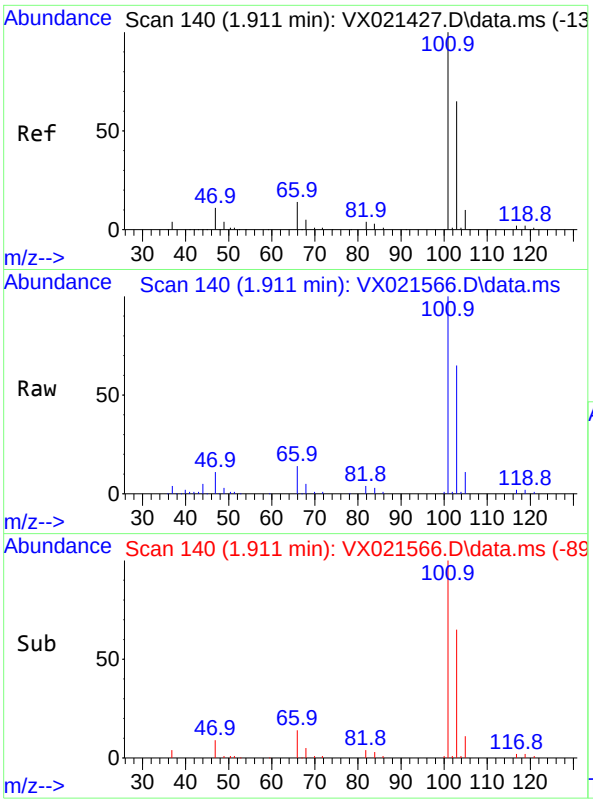
Tgt Ion: 64 Resp: 11982

Ion	Ratio	Lower	Upper
64	100		
66	33.2	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

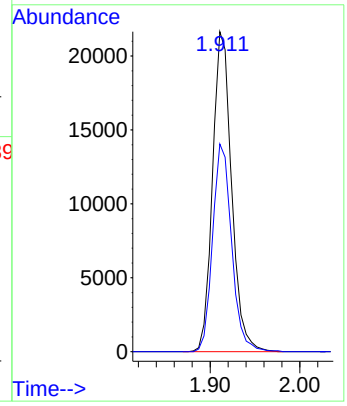
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

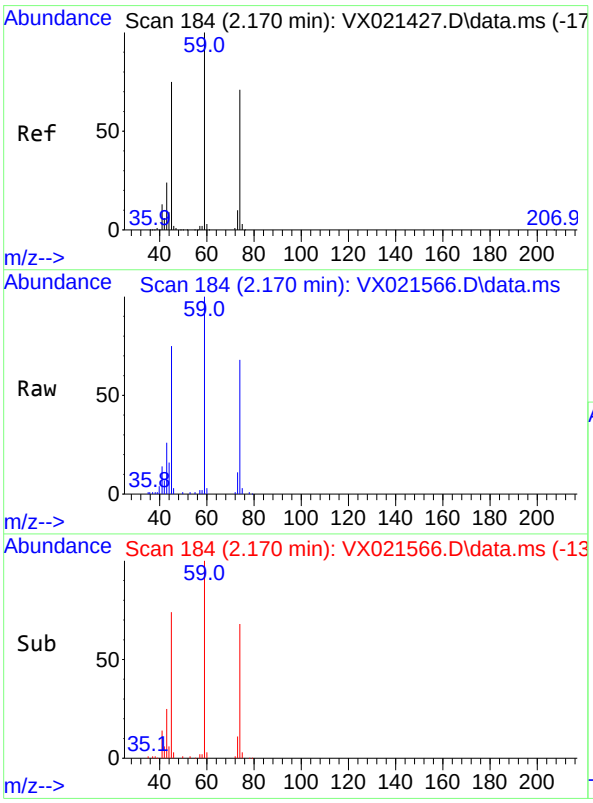


#7
Trichlorofluoromethane
Concen: 19.42 ug/l
RT: 1.911 min Scan# 140
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:101 Resp: 31846

Ion	Ratio	Lower	Upper
101	100		
103	64.9	53.2	79.8

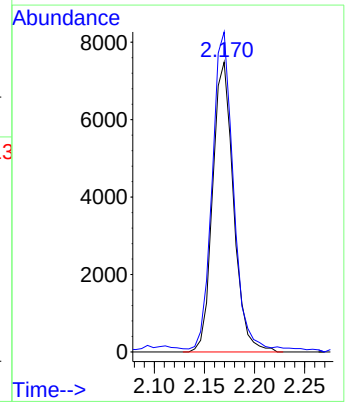




#8
Diethyl Ether
Concen: 19.03 ug/l
RT: 2.170 min Scan# 184
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

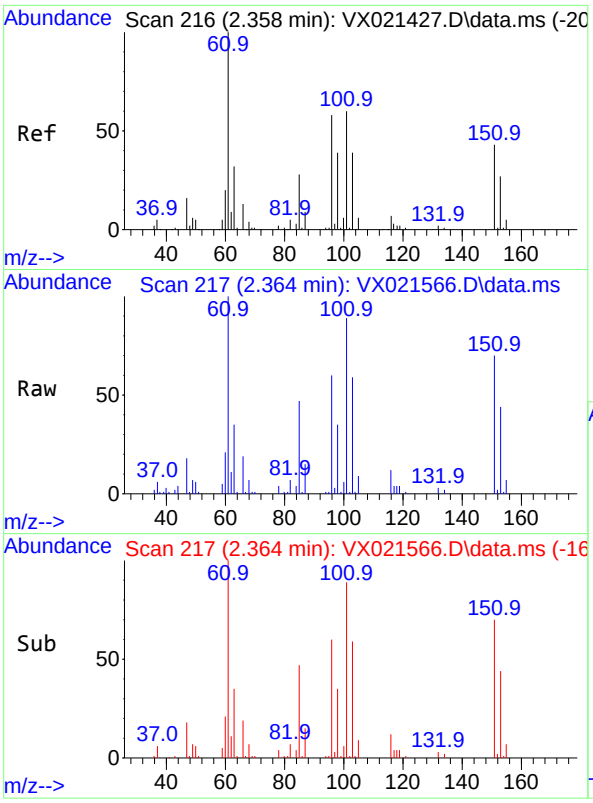
Tgt Ion: 74 Resp: 10829

Ion	Ratio	Lower	Upper
74	100		
45	114.9	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

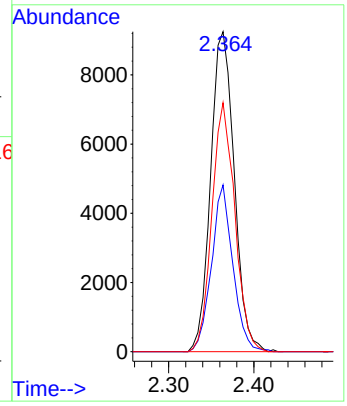
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

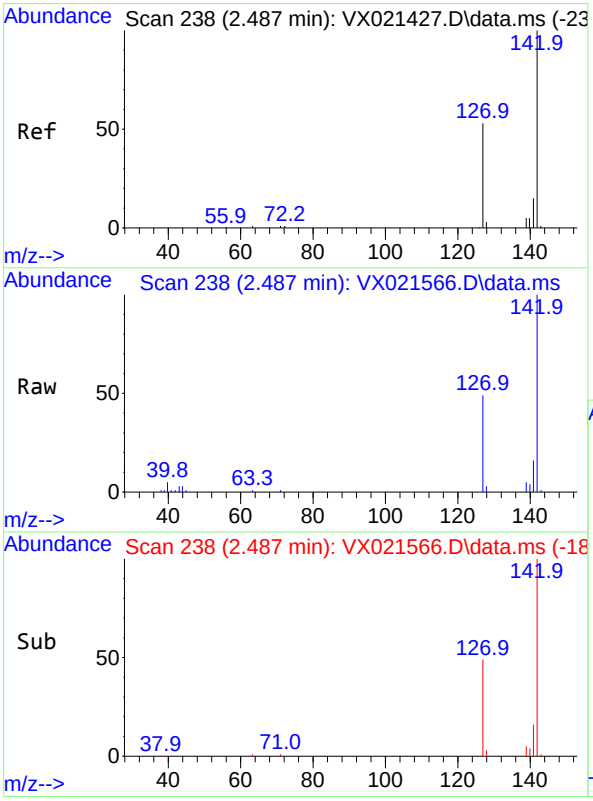


#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.30 ug/l
RT: 2.364 min Scan# 217
Delta R.T. 0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:101 Resp: 17816

Ion	Ratio	Lower	Upper
101	100		
85	47.3	34.9	52.3
151	75.7	61.4	92.2

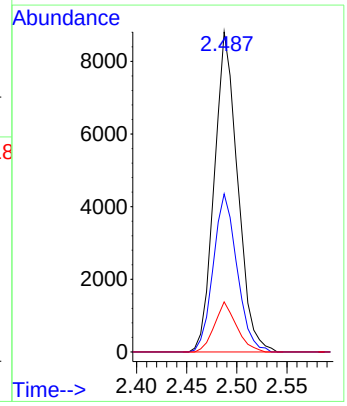




#10
Methyl Iodide
Concen: 23.81 ug/l
RT: 2.487 min Scan# 238
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

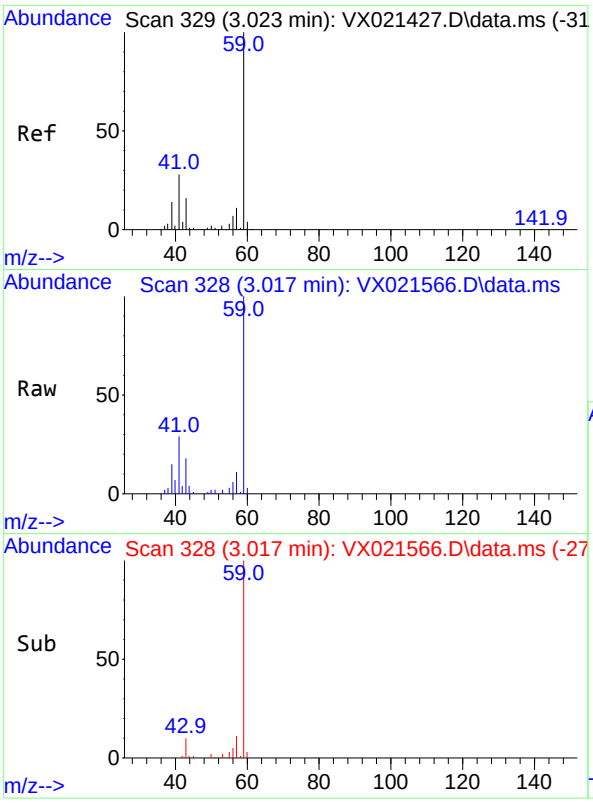
Tgt Ion:142 Resp: 14275

Ion	Ratio	Lower	Upper
142	100		
127	50.3	33.3	49.9#
141	14.8	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

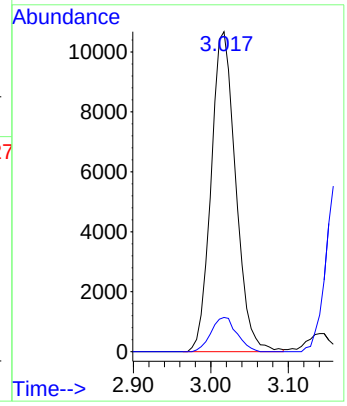
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

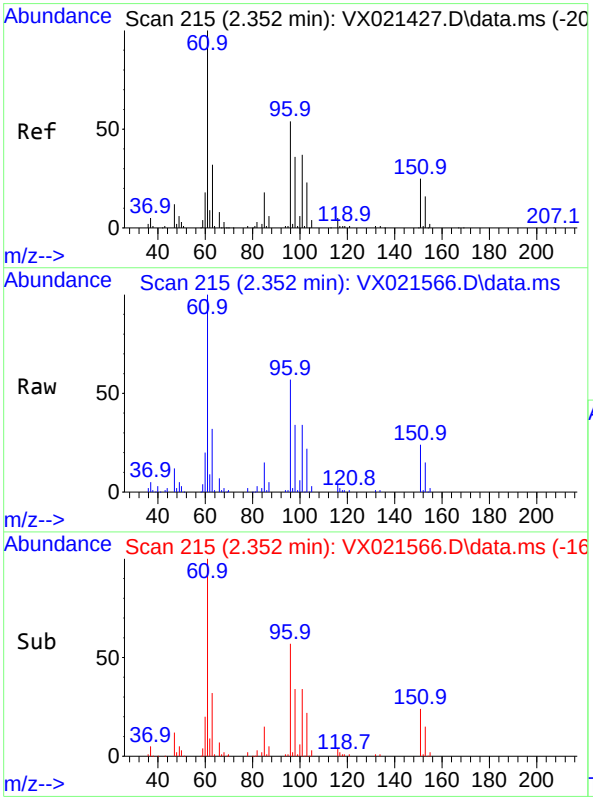


#11
Tert butyl alcohol
Concen: 95.78 ug/l
RT: 3.017 min Scan# 328
Delta R.T. -0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 59 Resp: 23633

Ion	Ratio	Lower	Upper
59	100		
57	11.2	7.8	11.8

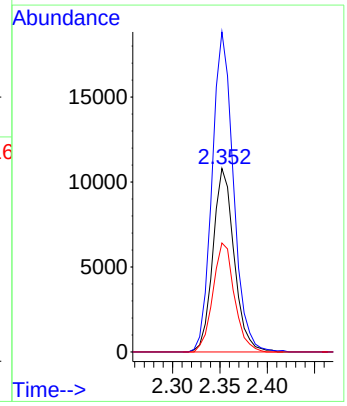




#12
1,1-Dichloroethene
Concen: 18.62 ug/l
RT: 2.352 min Scan# 215
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

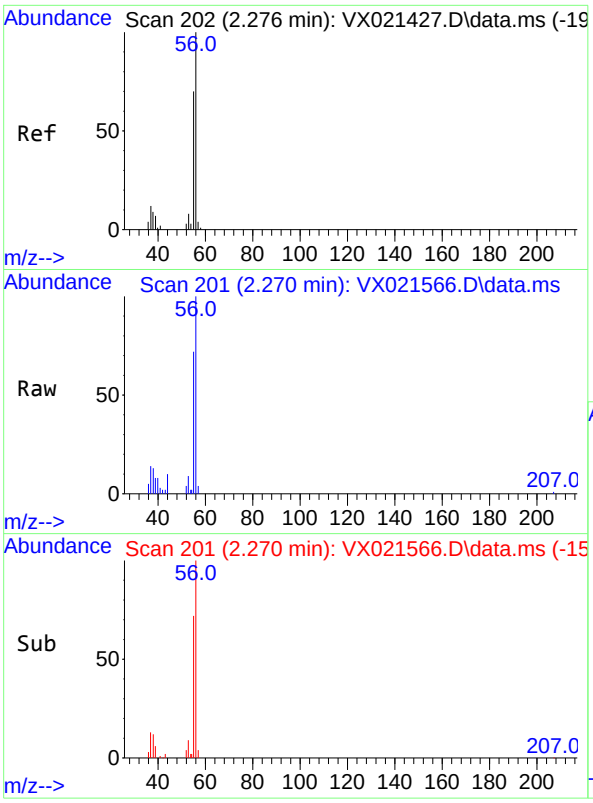
Tgt Ion: 96 Resp: 16830

Ion	Ratio	Lower	Upper
96	100		
61	174.4	124.6	187.0
98	59.4	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

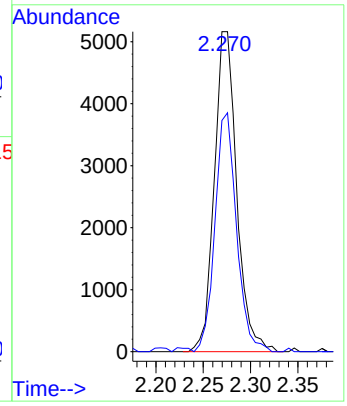
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

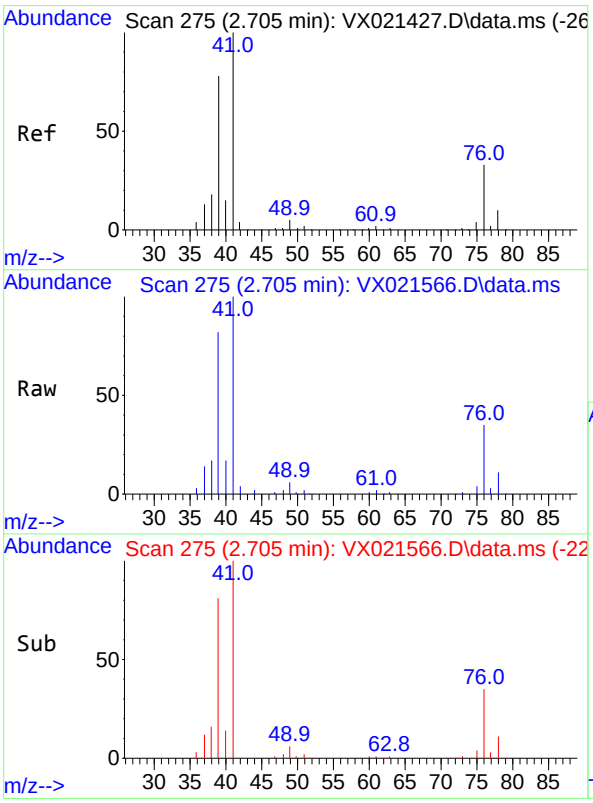


#13
Acrolein
Concen: 71.45 ug/l
RT: 2.270 min Scan# 201
Delta R.T. -0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 56 Resp: 8504

Ion	Ratio	Lower	Upper
56	100		
55	71.7	56.4	84.6

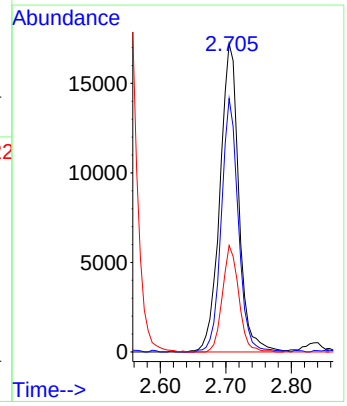




#14
Allyl chloride
Concen: 18.79 ug/l
RT: 2.705 min Scan# 275
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

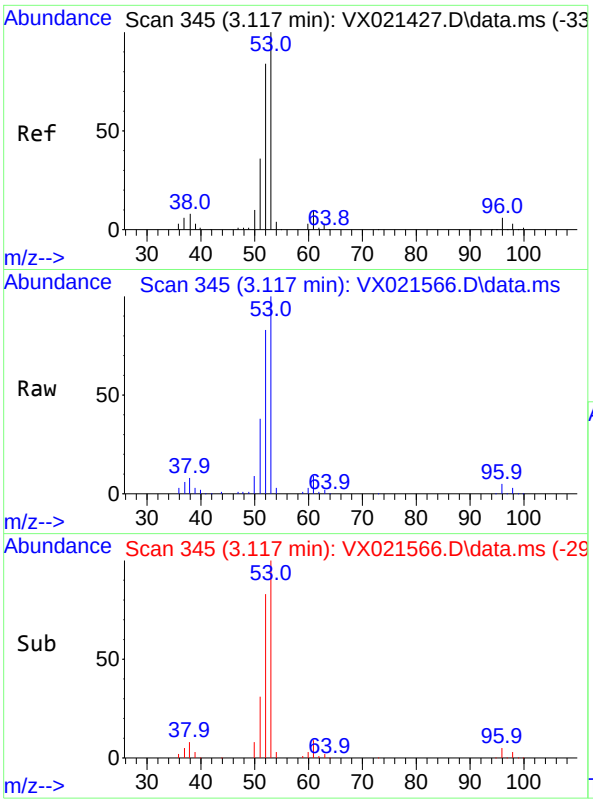
Tgt Ion: 41 Resp: 34473

Ion	Ratio	Lower	Upper
41	100		
39	73.6	51.6	77.4
76	29.7	30.5	45.7#



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

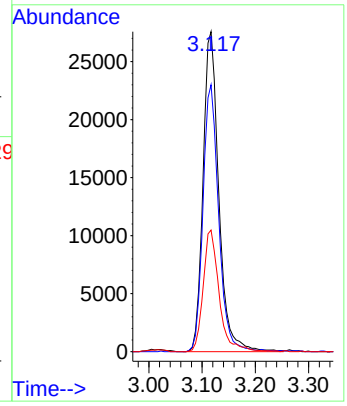
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

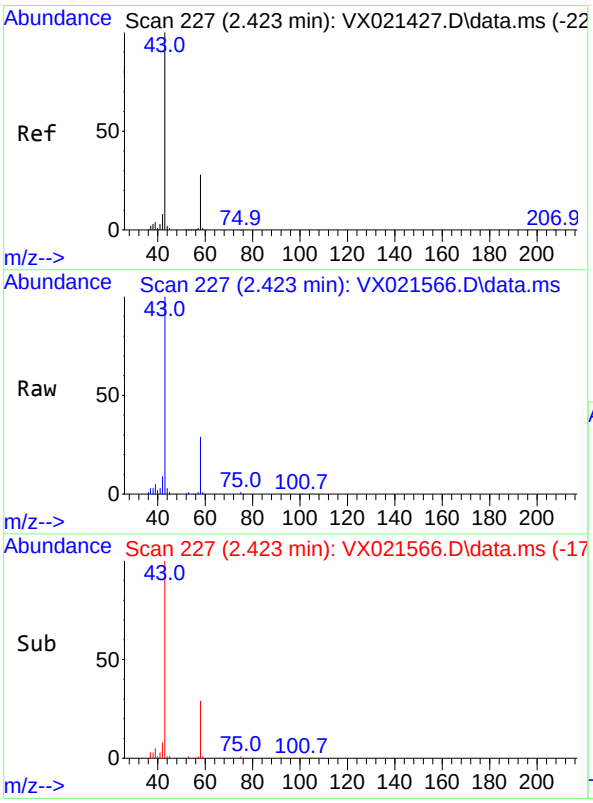


#15
Acrylonitrile
Concen: 96.66 ug/l
RT: 3.117 min Scan# 345
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 53 Resp: 56684

Ion	Ratio	Lower	Upper
53	100		
52	82.8	65.3	97.9
51	38.7	28.2	42.2

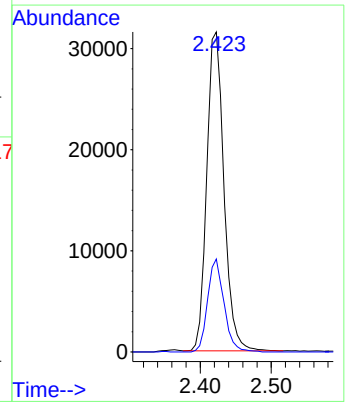




#16
Acetone
Concen: 94.12 ug/l
RT: 2.423 min Scan# 227
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

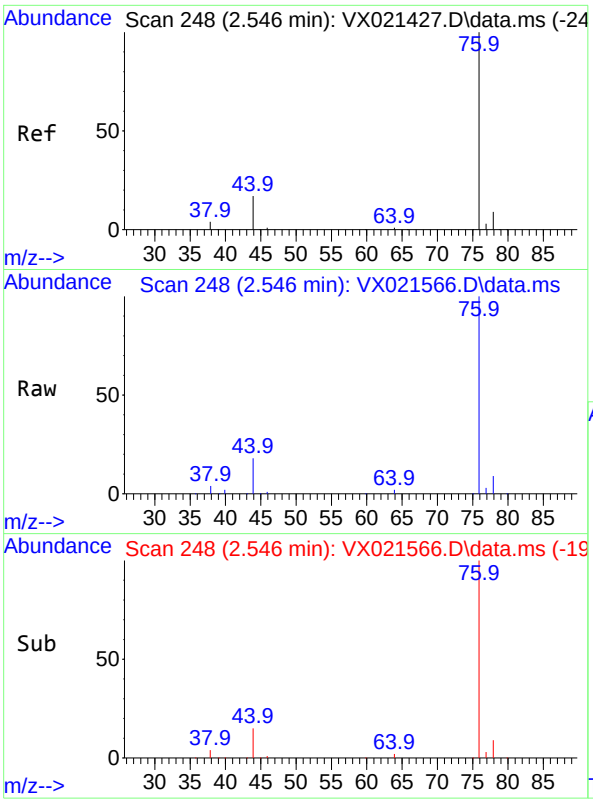
Tgt Ion: 43 Resp: 53114

Ion	Ratio	Lower	Upper
43	100		
58	29.2	27.8	41.8



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

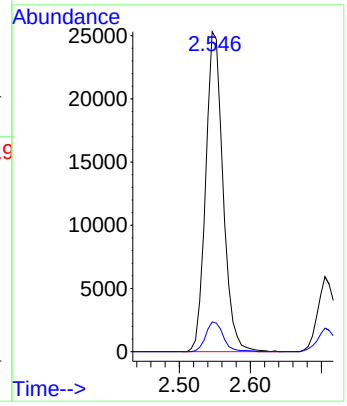
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

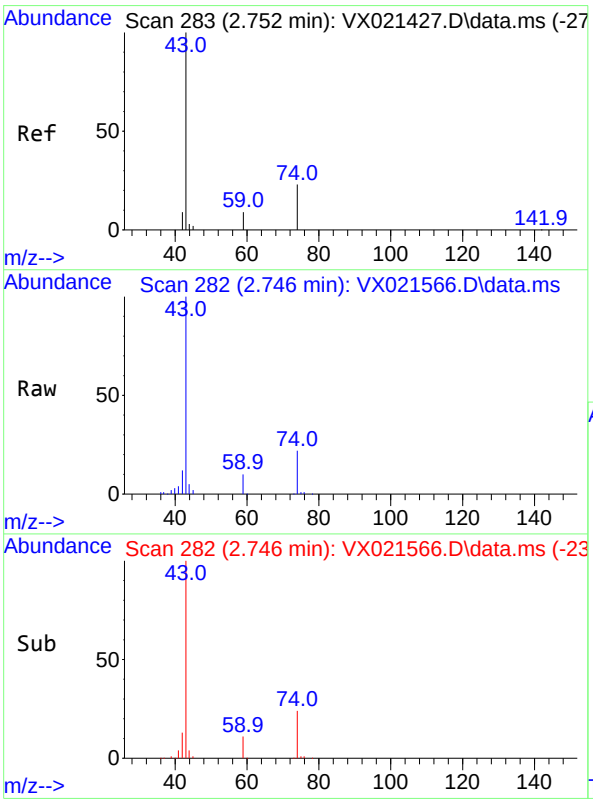


#17
Carbon Disulfide
Concen: 16.95 ug/l
RT: 2.546 min Scan# 248
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 76 Resp: 43030

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8

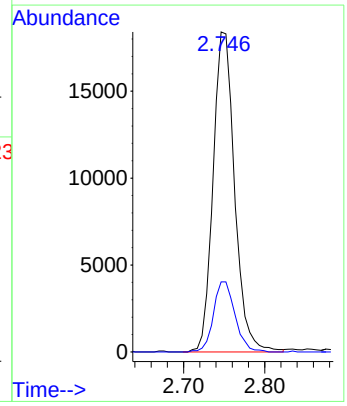




#18
Methyl Acetate
Concen: 20.84 ug/l
RT: 2.746 min Scan# 282
Delta R.T. -0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

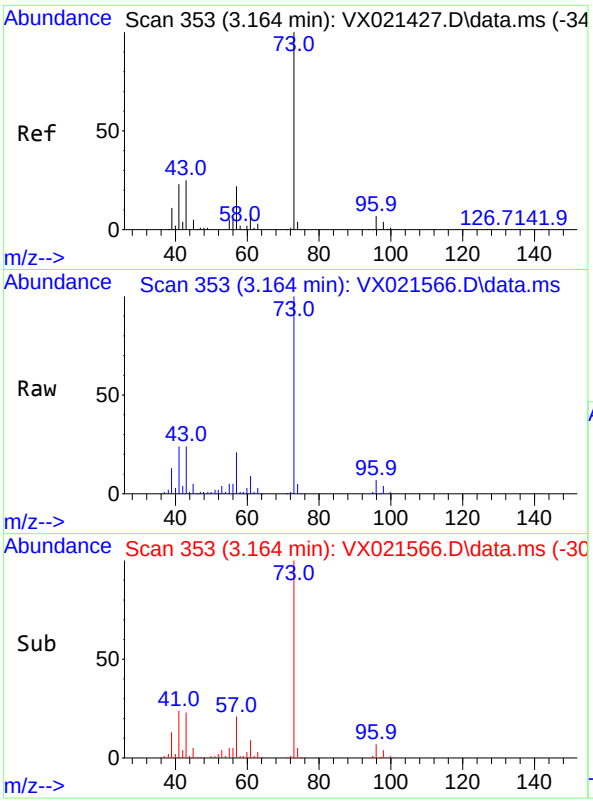
Tgt Ion: 43 Resp: 33973

Ion	Ratio	Lower	Upper
43	100		
74	21.9	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

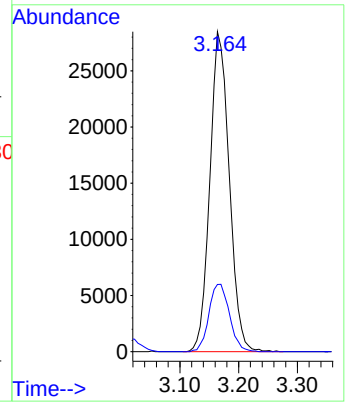
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

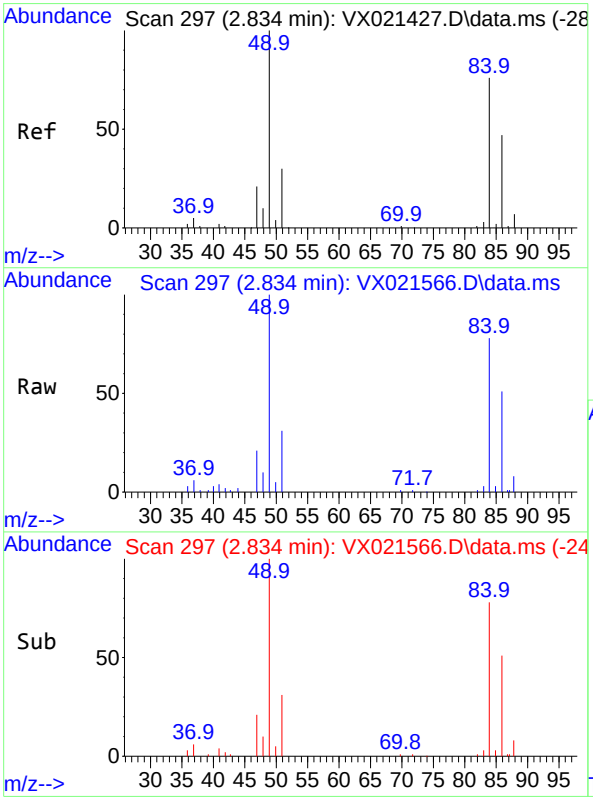


#19
Methyl tert-butyl Ether
Concen: 19.35 ug/l
RT: 3.164 min Scan# 353
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 73 Resp: 65333

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.1	25.7

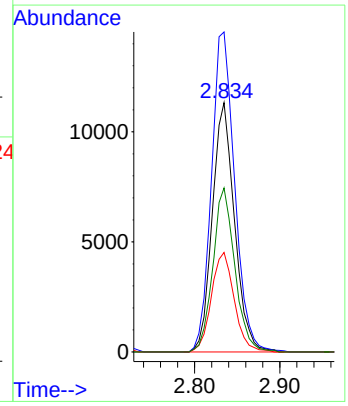




#20
Methylene Chloride
Concen: 18.61 ug/l
RT: 2.834 min Scan# 297
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

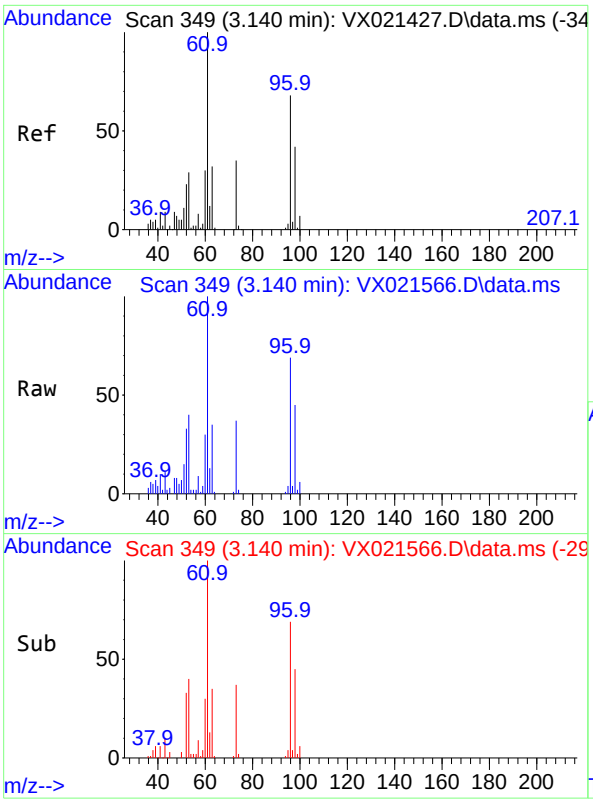
Tgt Ion: 84 Resp: 20496

Ion	Ratio	Lower	Upper
84	100		
49	128.3	88.6	132.8
51	39.9	27.0	40.6
86	65.8	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

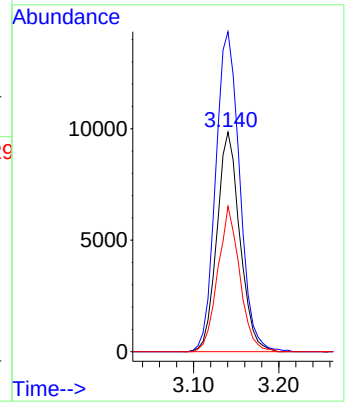
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

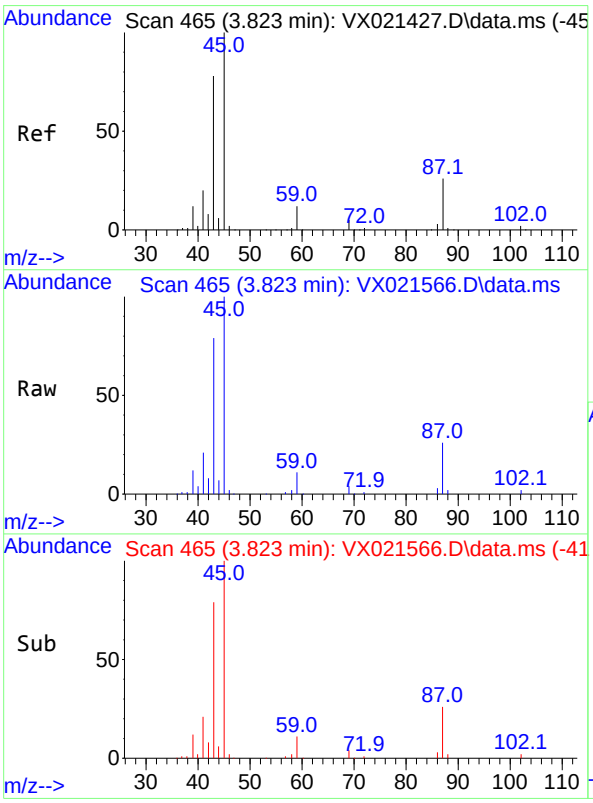


#21
trans-1,2-Dichloroethene
Concen: 18.54 ug/l
RT: 3.140 min Scan# 349
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 96 Resp: 18412

Ion	Ratio	Lower	Upper
96	100		
61	145.8	107.7	161.5
98	66.2	50.4	75.6

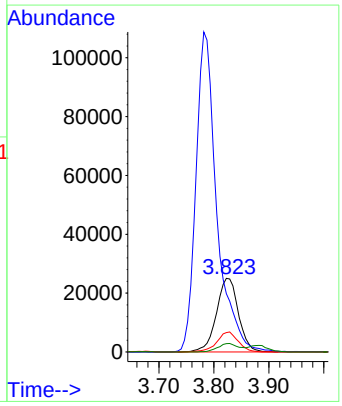




#22
Diisopropyl ether
Concen: 19.45 ug/l
RT: 3.823 min Scan# 465
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

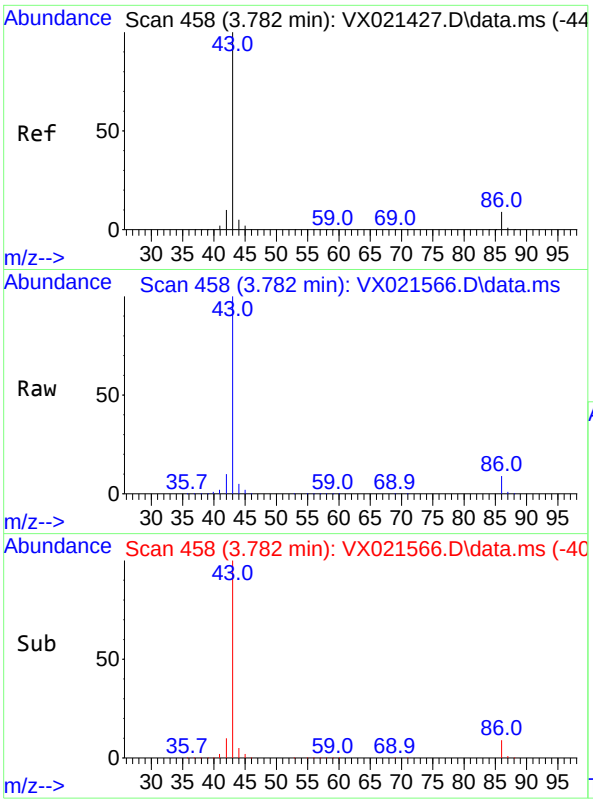
Tgt Ion: 45 Resp: 69356

Ion	Ratio	Lower	Upper
45	100		
43	78.2	58.0	87.0
87	26.2	25.4	38.0
59	11.3	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

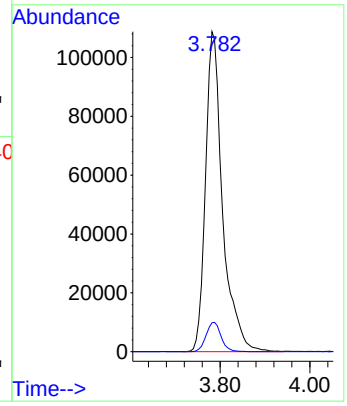
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

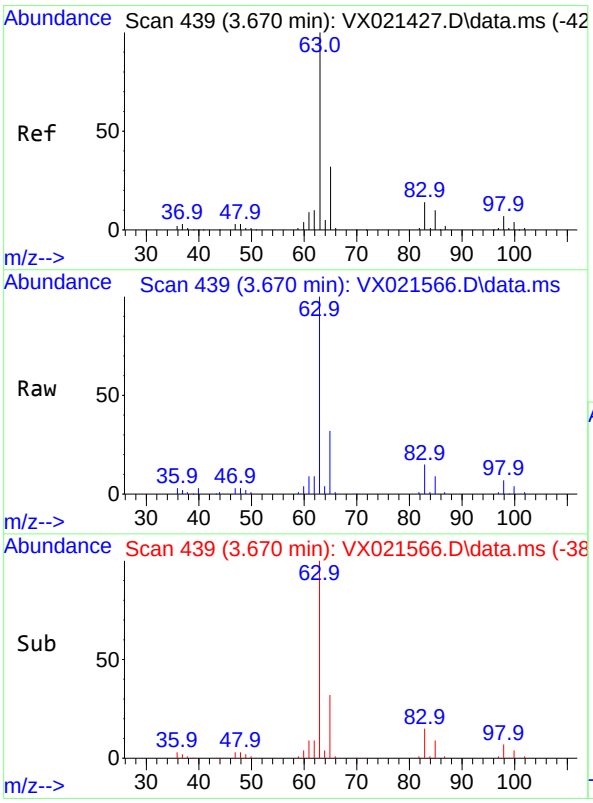


#23
Vinyl Acetate
Concen: 95.13 ug/l
RT: 3.782 min Scan# 458
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 43 Resp: 286871

Ion	Ratio	Lower	Upper
43	100		
86	9.1	9.9	14.9#

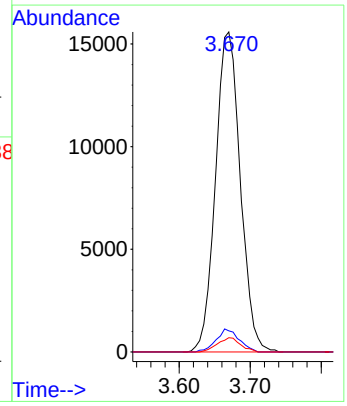




#24
1,1-Dichloroethane
Concen: 19.66 ug/l
RT: 3.670 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

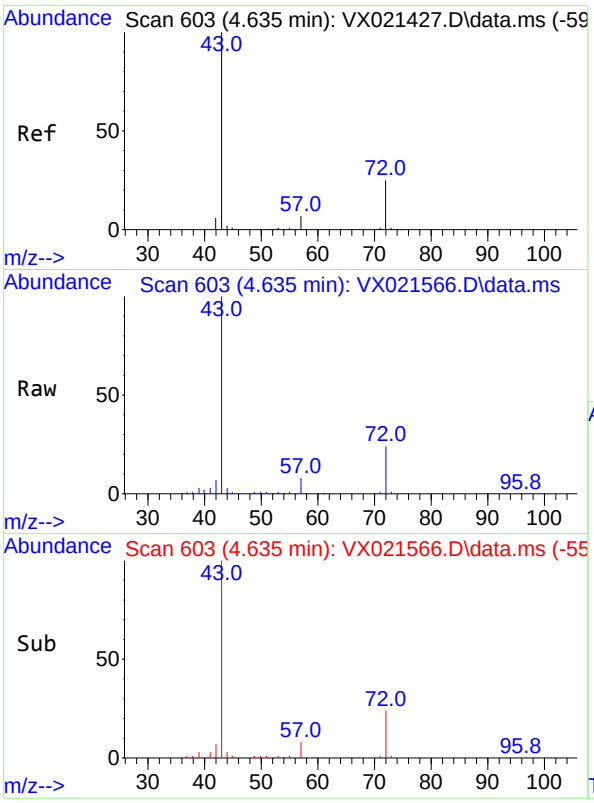
Tgt Ion: 63 Resp: 37779

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.8	11.2
100	4.4	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

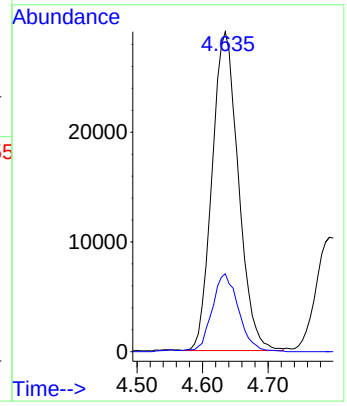
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

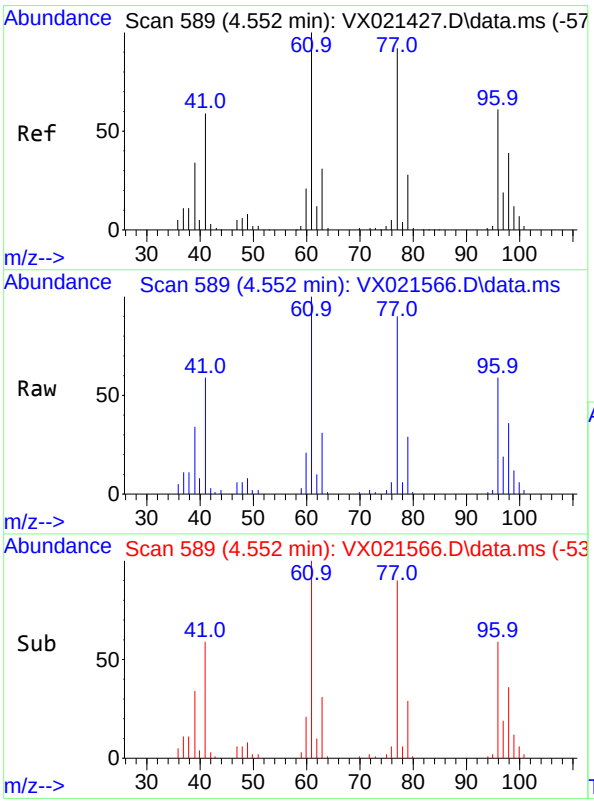


#25
2-Butanone
Concen: 94.75 ug/l
RT: 4.635 min Scan# 603
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 43 Resp: 81056

Ion	Ratio	Lower	Upper
43	100		
72	24.3	23.7	35.5

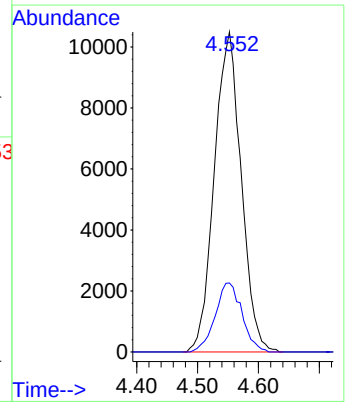




#26
2,2-Dichloropropane
Concen: 19.30 ug/l
RT: 4.552 min Scan# 589
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

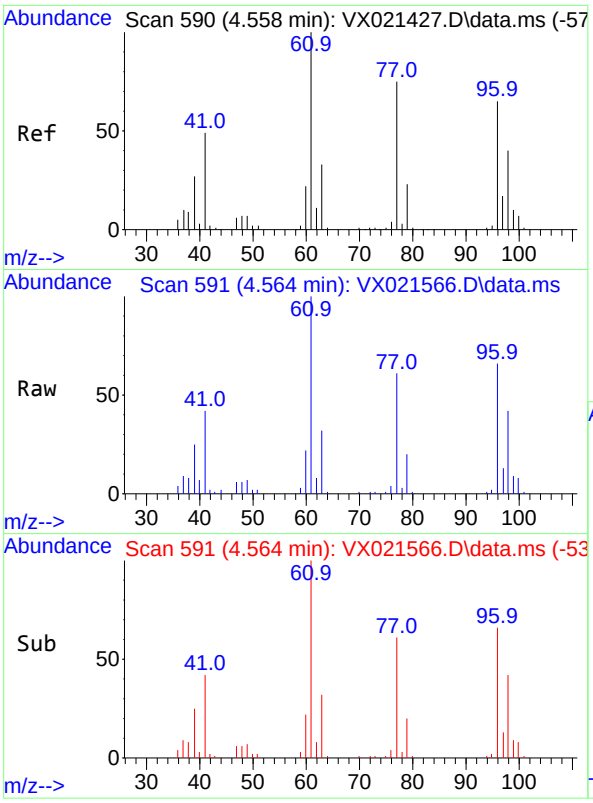
Tgt Ion: 77 Resp: 32141

Ion	Ratio	Lower	Upper
77	100		
97	21.5	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

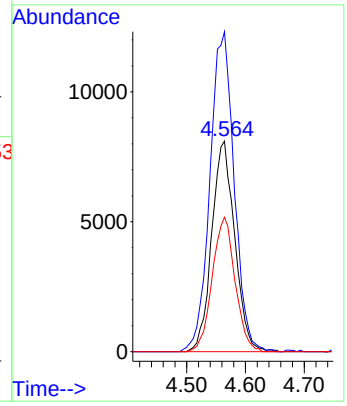
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

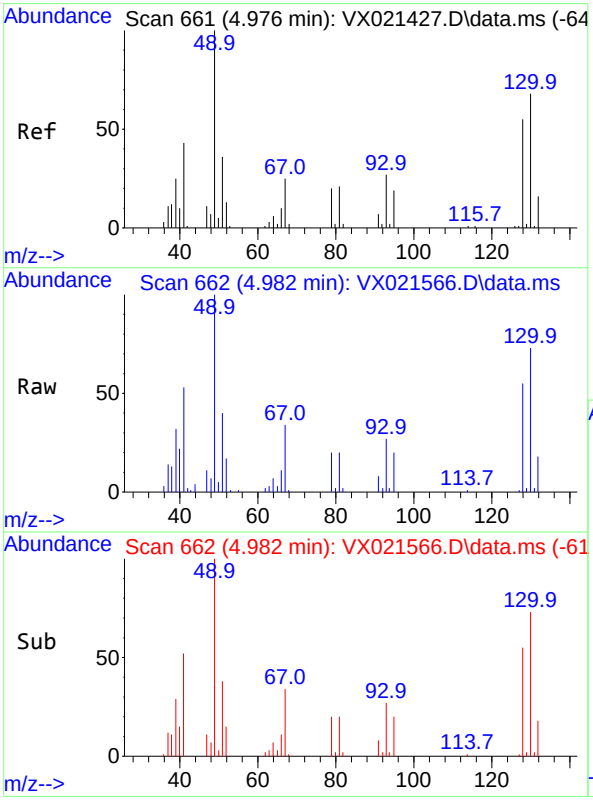


#27
cis-1,2-Dichloroethene
Concen: 19.12 ug/l
RT: 4.564 min Scan# 591
Delta R.T. 0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 96 Resp: 22049

Ion	Ratio	Lower	Upper
96	100		
61	159.8	0.0	285.6
98	63.3	0.0	129.6

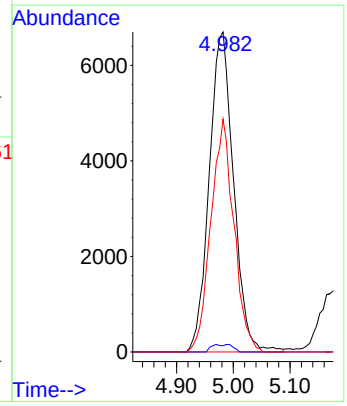




#28
Bromochloromethane
Concen: 20.71 ug/l
RT: 4.982 min Scan# 662
Delta R.T. 0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

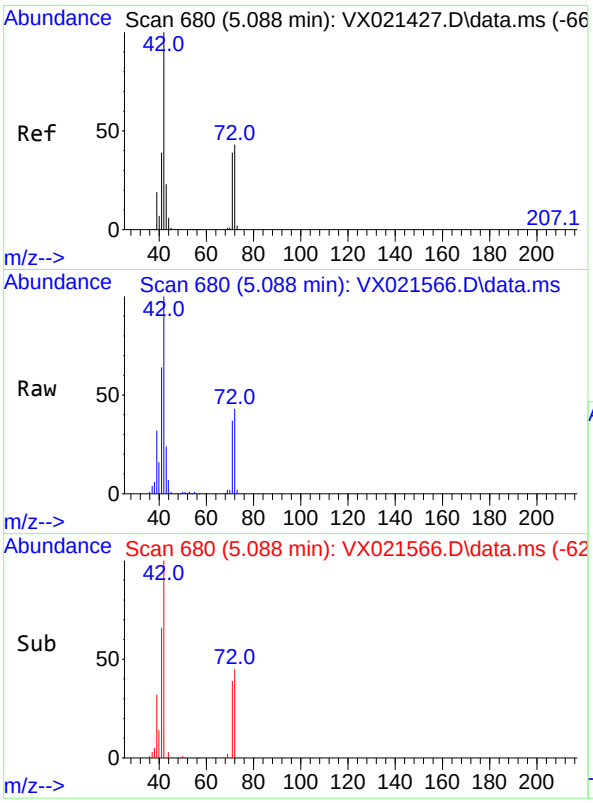
Tgt Ion: 49 Resp: 19930

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.0
130	68.8	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

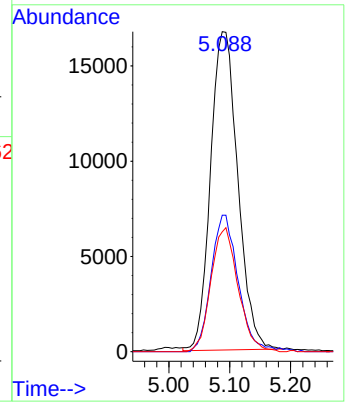
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

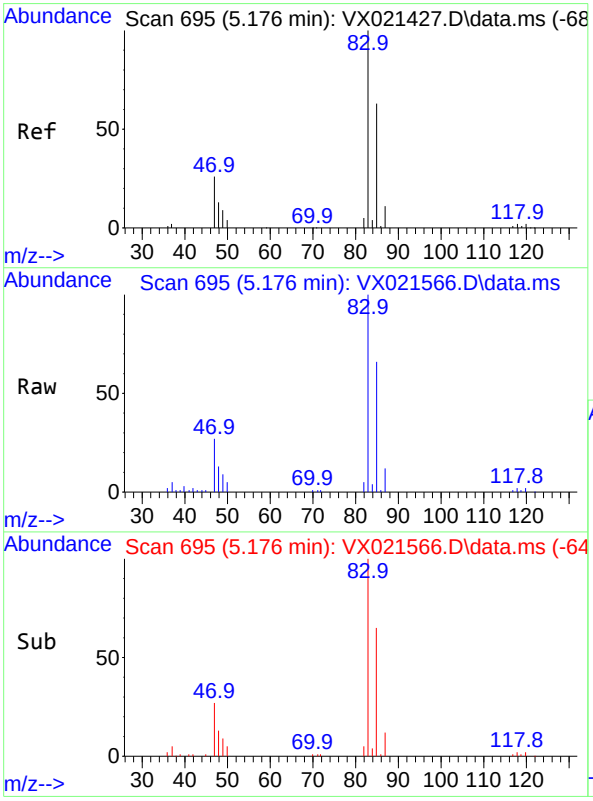


#29
Tetrahydrofuran
Concen: 93.83 ug/l
RT: 5.088 min Scan# 680
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 42 Resp: 52042

Ion	Ratio	Lower	Upper
42	100		
72	42.8	41.7	62.5
71	38.8	38.4	57.6

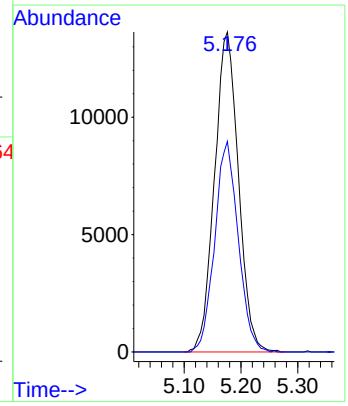




#30
Chloroform
Concen: 19.67 ug/l
RT: 5.176 min Scan# 695
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

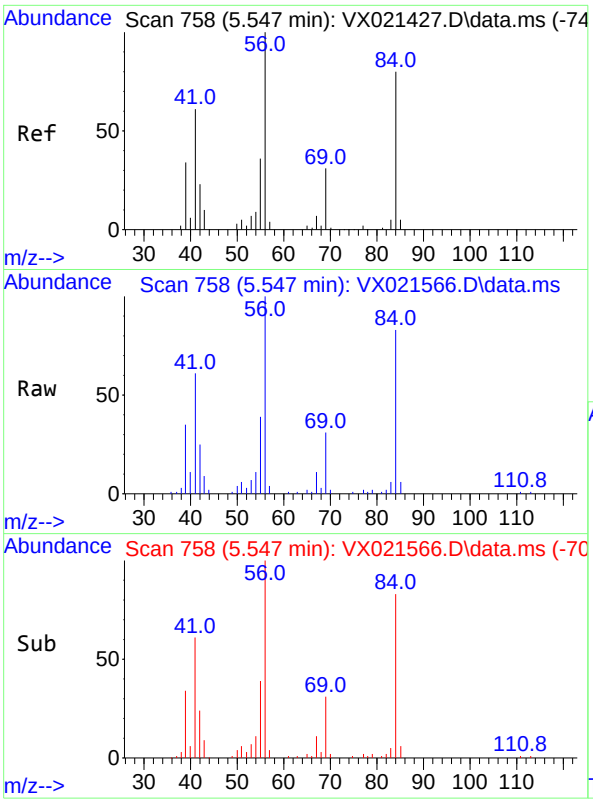
Tgt Ion: 83 Resp: 39901

Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

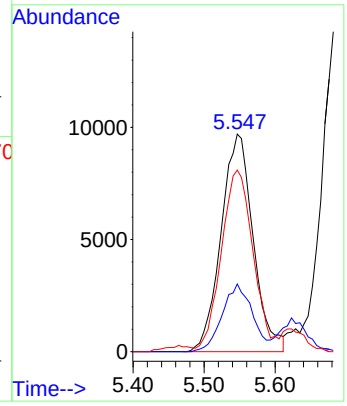
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

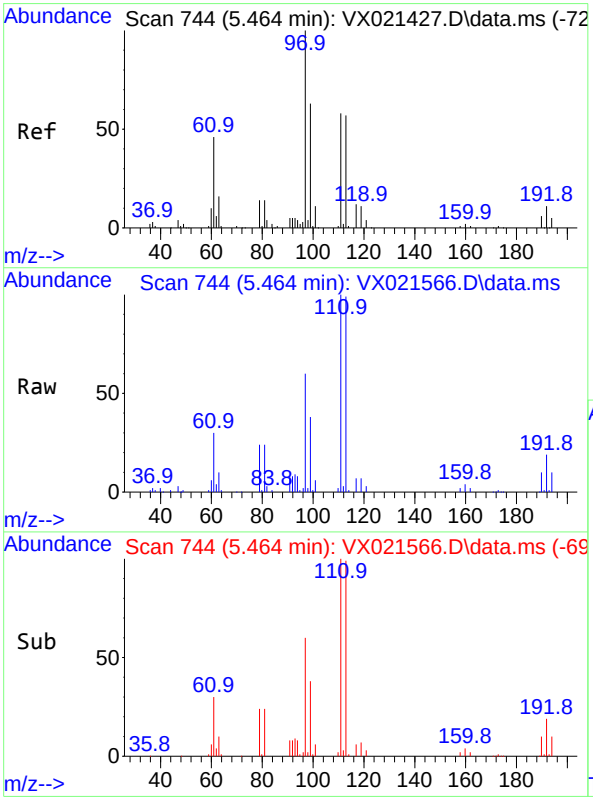


#31
Cyclohexane
Concen: 18.54 ug/l
RT: 5.547 min Scan# 758
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 56 Resp: 30431

Ion	Ratio	Lower	Upper
56	100		
69	30.4	25.3	37.9
84	81.2	71.4	107.0

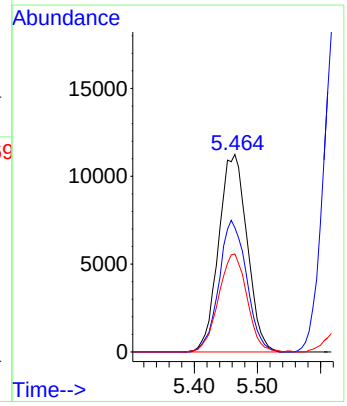




#32
1,1,1-Trichloroethane
Concen: 19.62 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

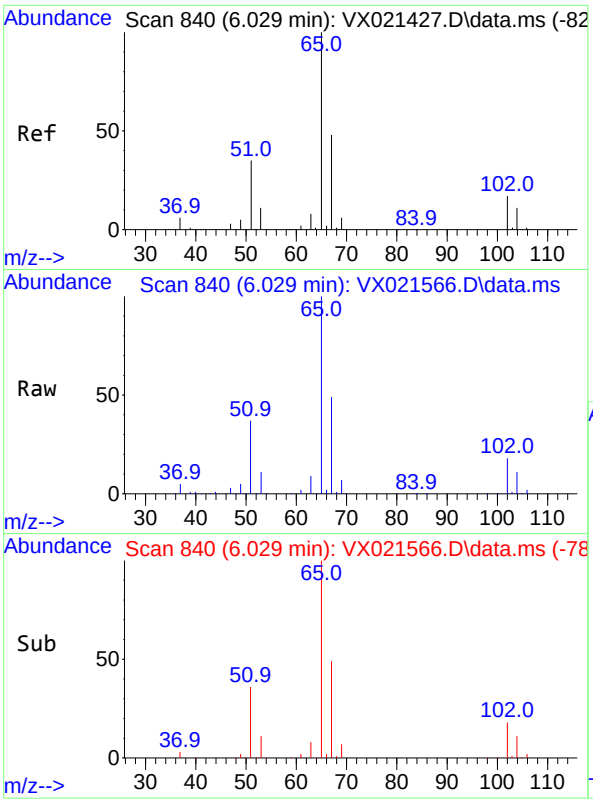
Tgt Ion: 97 Resp: 35267

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.5	77.3
61	49.5	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

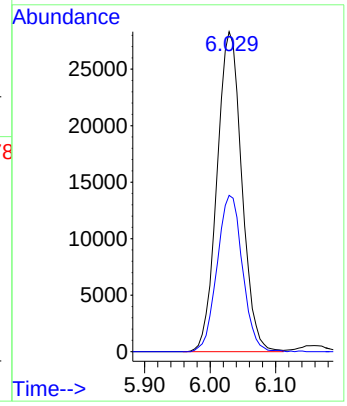
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

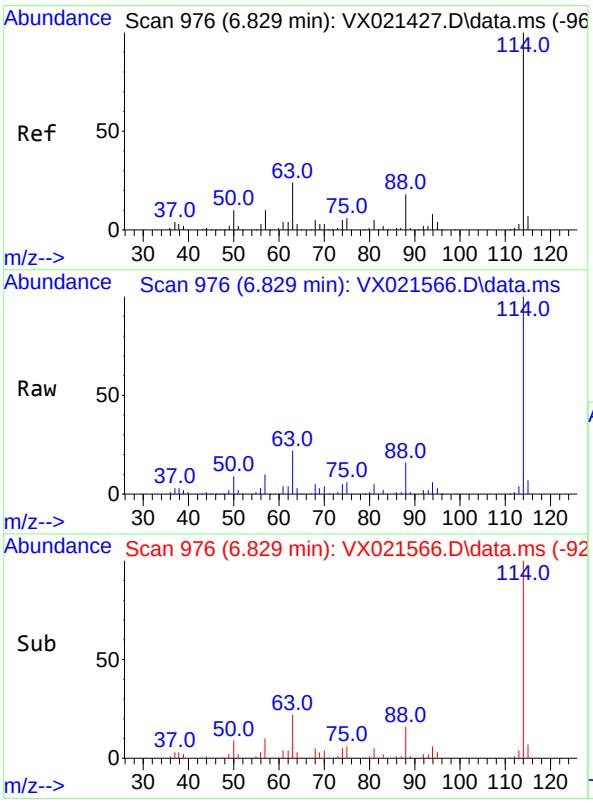


#33
1,2-Dichloroethane-d4
Concen: 49.77 ug/l
RT: 6.029 min Scan# 840
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 65 Resp: 74284

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	105.4

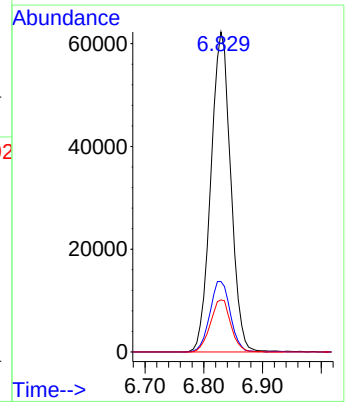




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

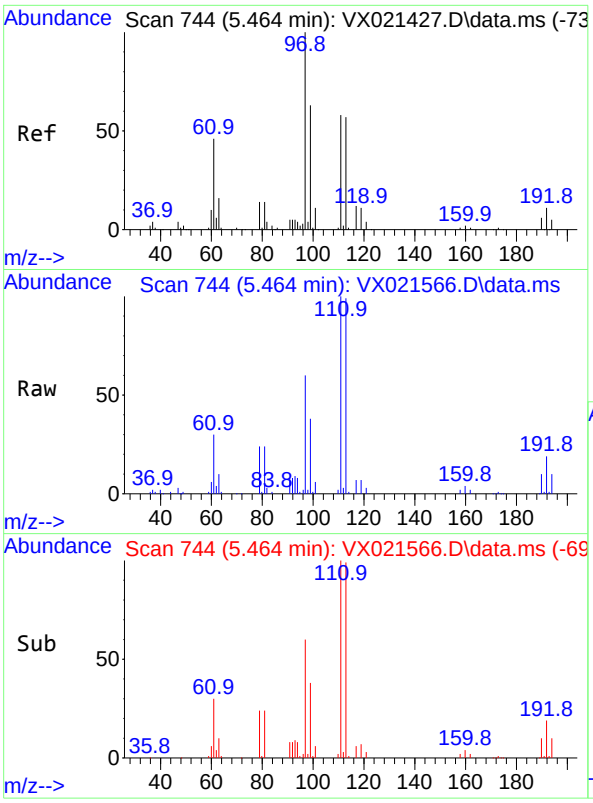
Tgt Ion:114 Resp: 146257

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	40.8
88	16.2	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

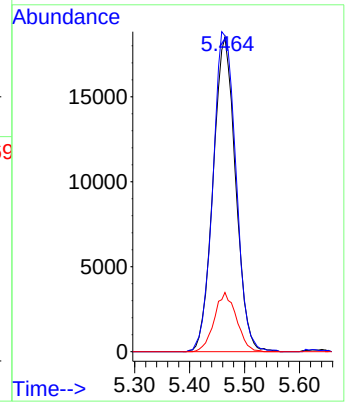
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

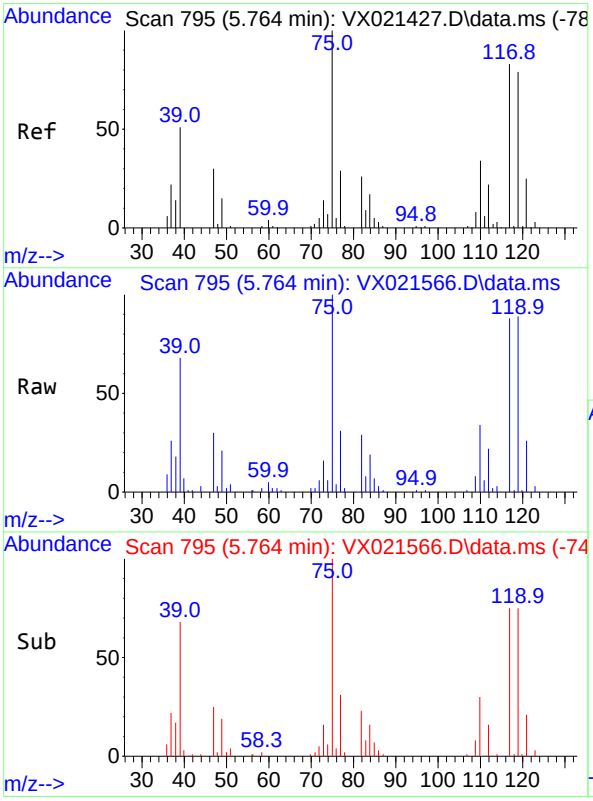


#35
Dibromofluoromethane
Concen: 50.56 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:113 Resp: 52530

Ion	Ratio	Lower	Upper
113	100		
111	104.1	81.9	122.9
192	18.6	16.7	25.1

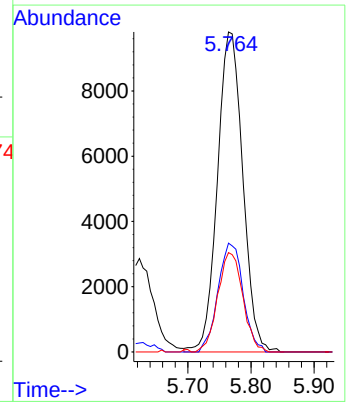




#36
1,1-Dichloropropene
Concen: 19.09 ug/l
RT: 5.764 min Scan# 795
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

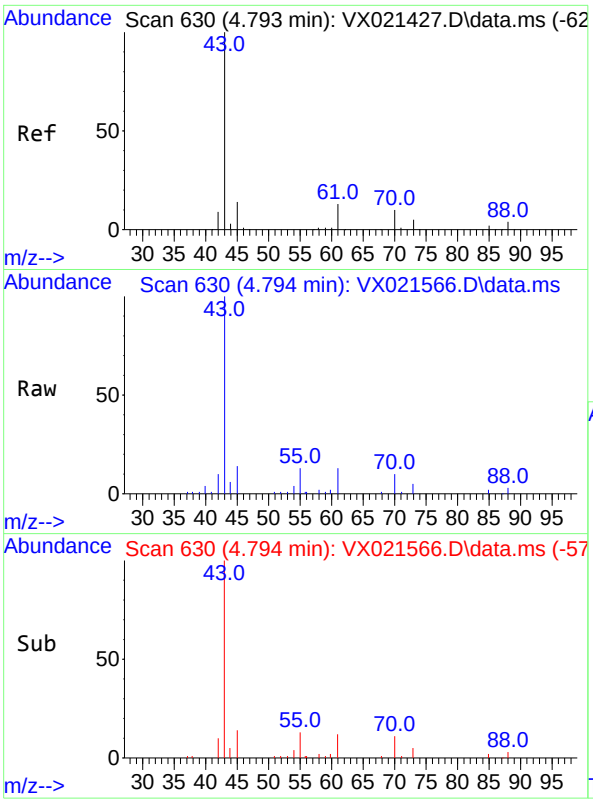
Tgt Ion: 75 Resp: 27360

Ion	Ratio	Lower	Upper
75	100		
110	33.6	18.1	54.4
77	30.6	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

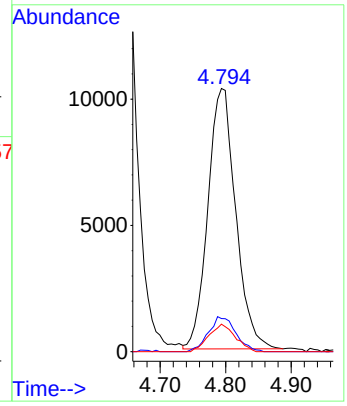
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

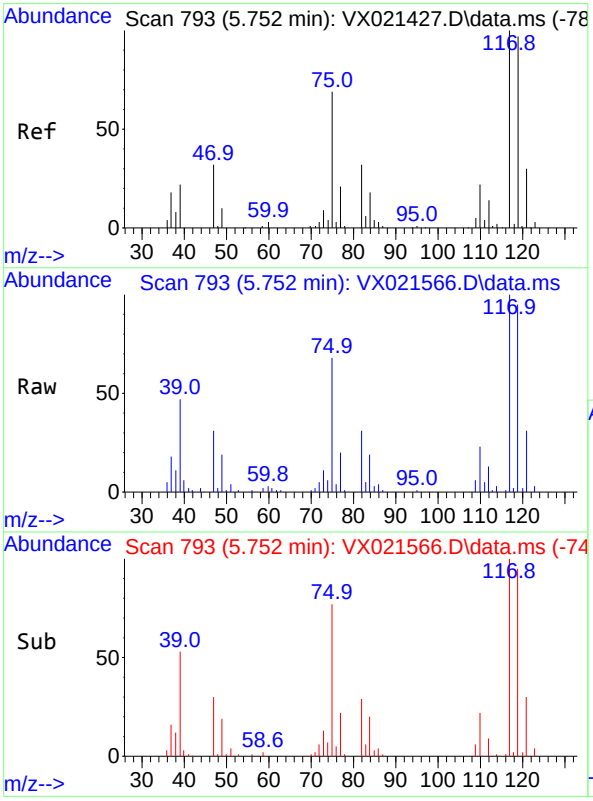


#37
Ethyl Acetate
Concen: 18.35 ug/l
RT: 4.794 min Scan# 630
Delta R.T. 0.001 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 43 Resp: 30400

Ion	Ratio	Lower	Upper
43	100		
61	13.2	12.8	19.2
70	10.0	10.5	15.7#

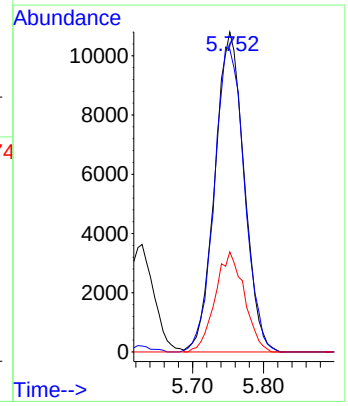




#38
Carbon Tetrachloride
Concen: 20.08 ug/l
RT: 5.752 min Scan# 793
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

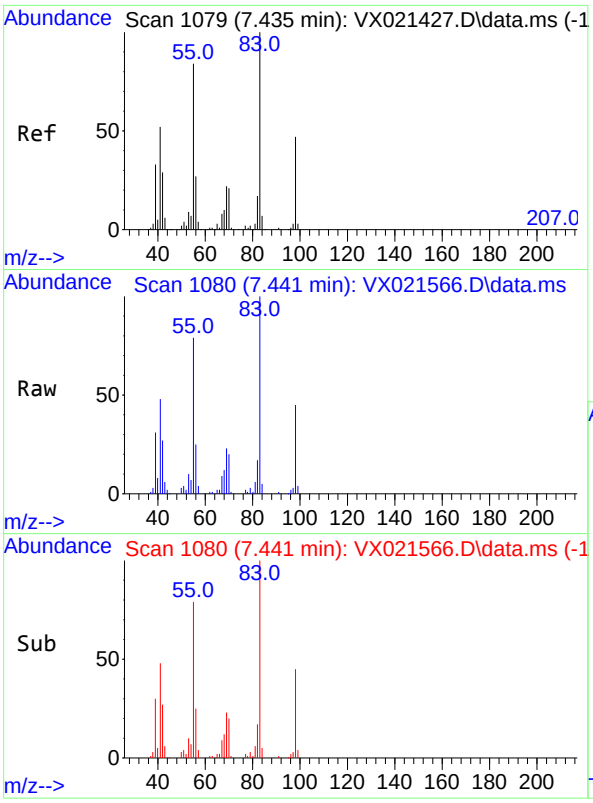
Tgt Ion:117 Resp: 30918

Ion	Ratio	Lower	Upper
117	100		
119	94.6	76.2	114.2
121	31.3	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

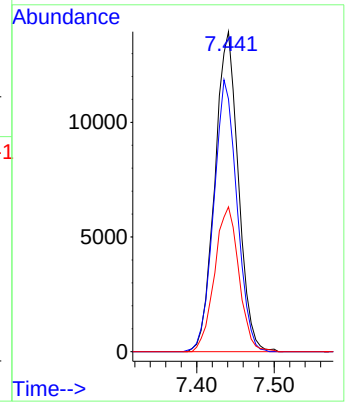
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

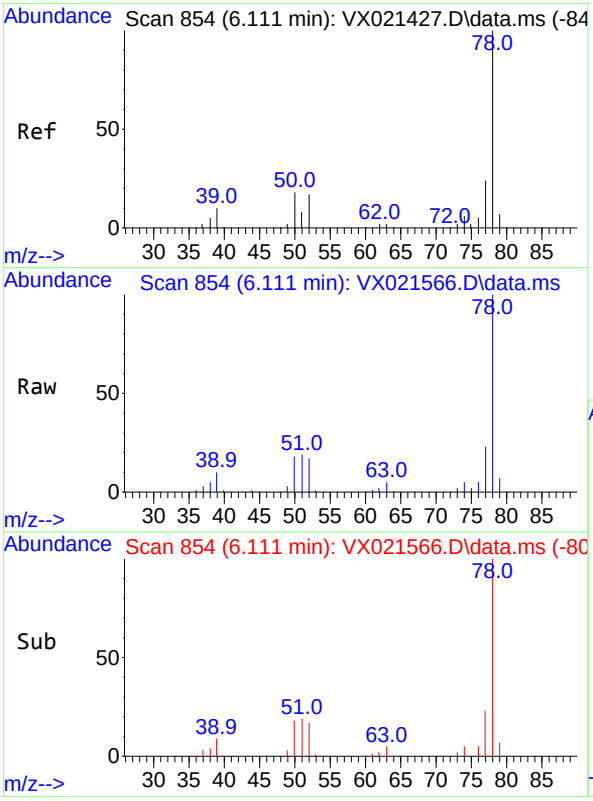


#39
Methylcyclohexane
Concen: 18.50 ug/l
RT: 7.441 min Scan# 1080
Delta R.T. 0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 83 Resp: 29397

Ion	Ratio	Lower	Upper
83	100		
55	79.0	58.9	88.3
98	45.3	38.1	57.1

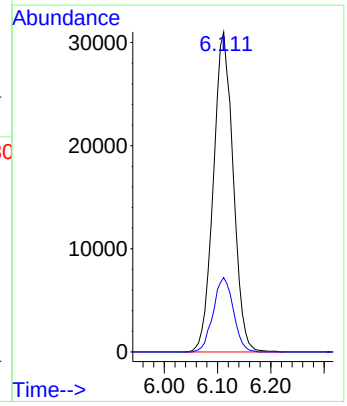




#40
Benzene
Concen: 19.67 ug/l
RT: 6.111 min Scan# 854
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

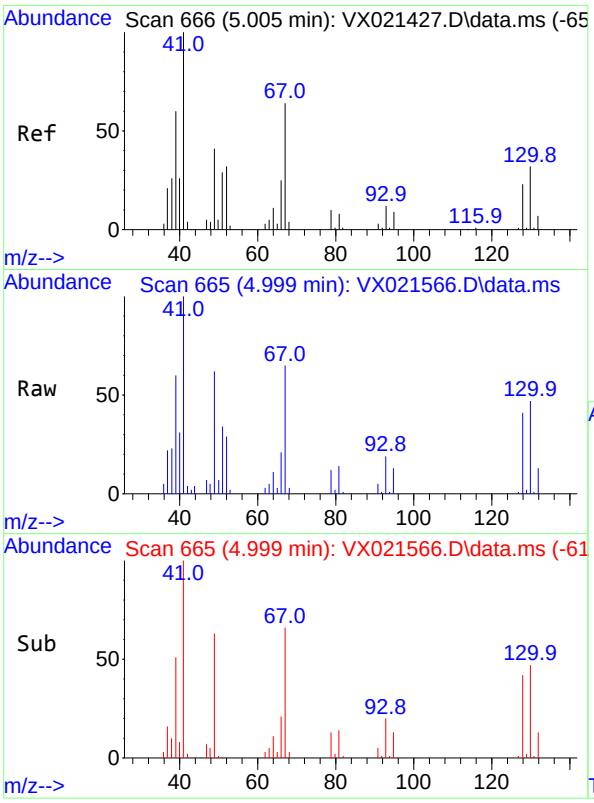
Tgt Ion: 78 Resp: 80058

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

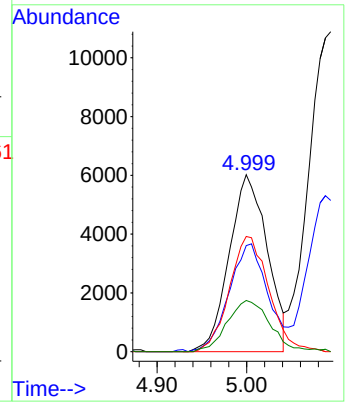
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

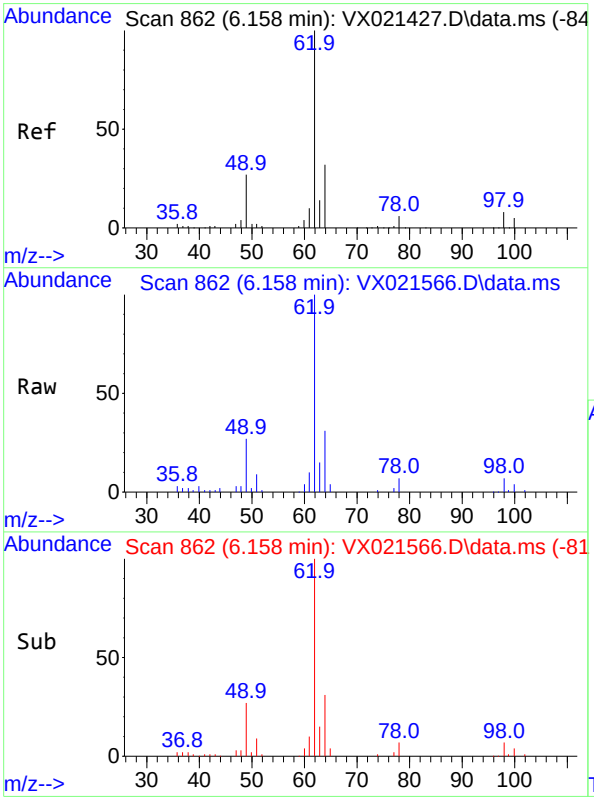


#41
Methacrylonitrile
Concen: 18.42 ug/l
RT: 4.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 41 Resp: 17703

Ion	Ratio	Lower	Upper
41	100		
39	62.9	42.5	63.7
67	67.8	65.0	97.6
52	32.9	25.3	37.9

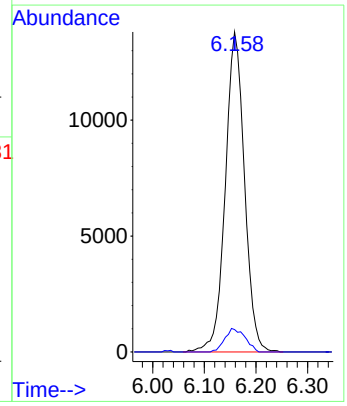




#42
1,2-Dichloroethane
Concen: 20.17 ug/l
RT: 6.158 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

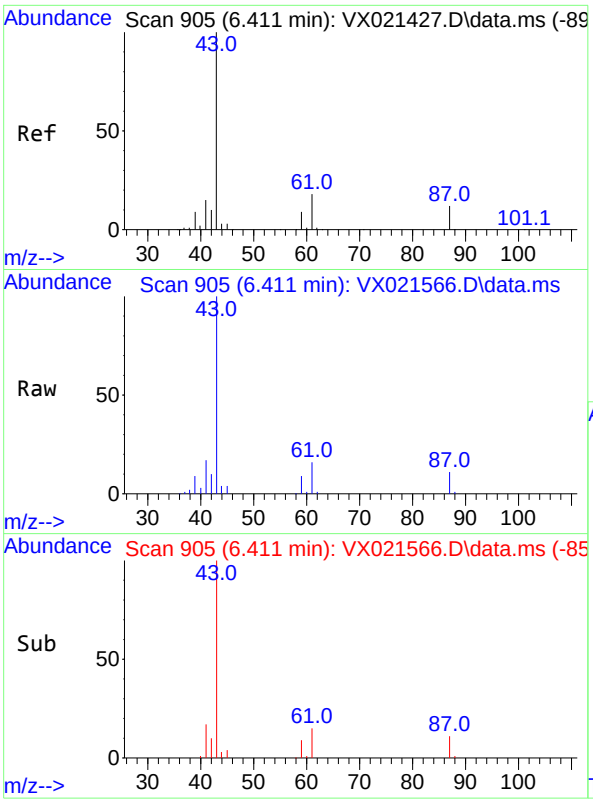
Tgt Ion: 62 Resp: 35590

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

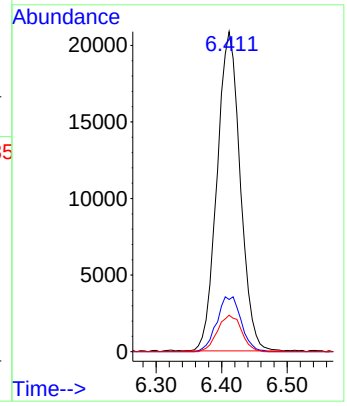
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

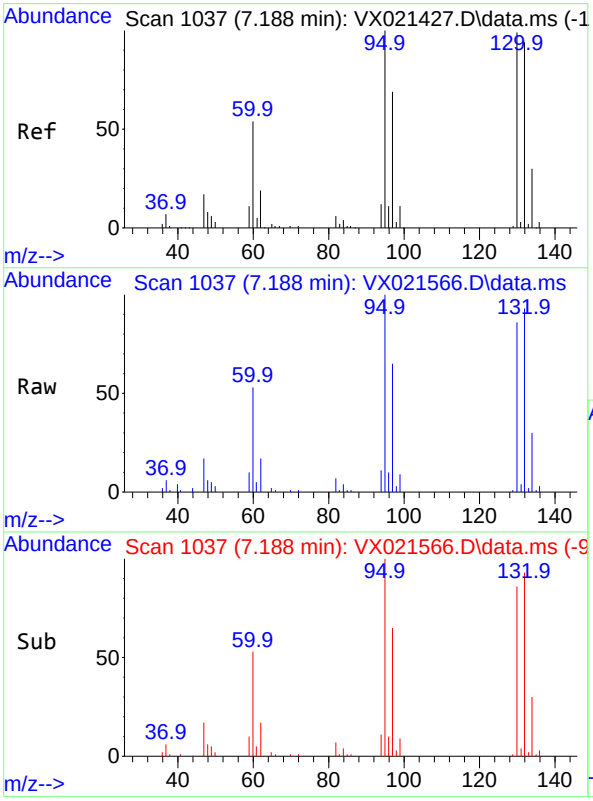


#43
Isopropyl Acetate
Concen: 18.96 ug/l
RT: 6.411 min Scan# 905
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 43 Resp: 51001

Ion	Ratio	Lower	Upper
43	100		
61	18.2	18.2	27.4#
87	11.8	12.5	18.7#

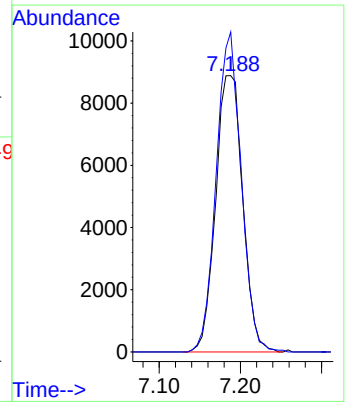




#44
Trichloroethene
Concen: 19.25 ug/l
RT: 7.188 min Scan# 1037
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

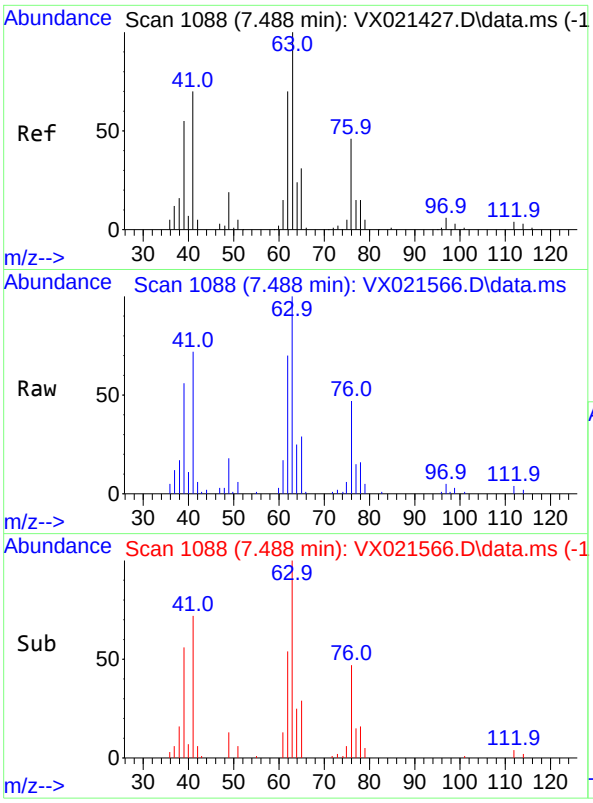
Tgt Ion:130 Resp: 20670

Ion	Ratio	Lower	Upper
130	100		
95	115.8	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

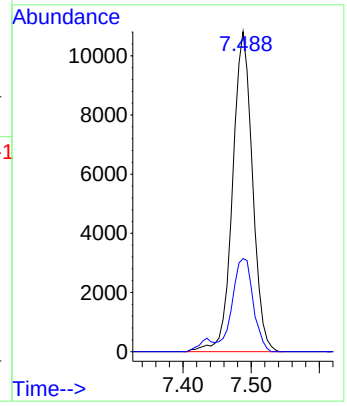
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

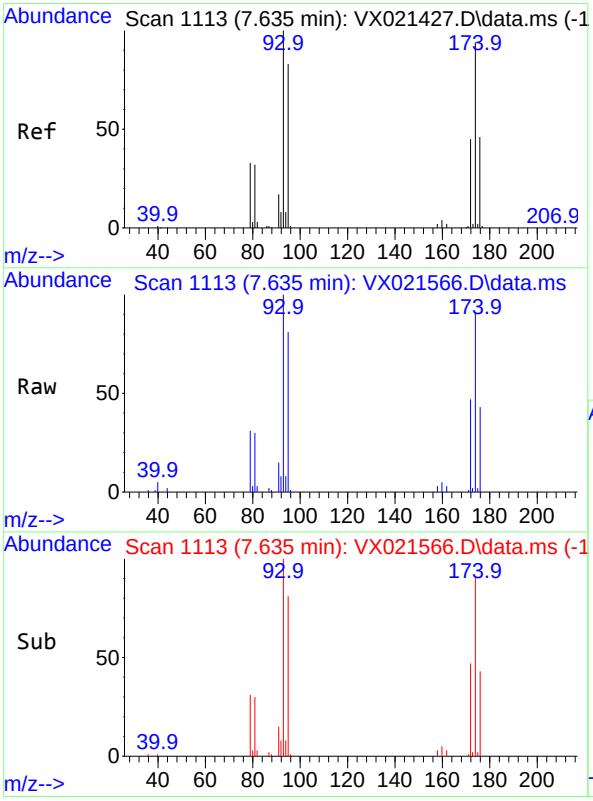


#45
1,2-Dichloropropane
Concen: 19.87 ug/l
RT: 7.488 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 63 Resp: 21909

Ion	Ratio	Lower	Upper
63	100		
65	29.1	25.7	38.5

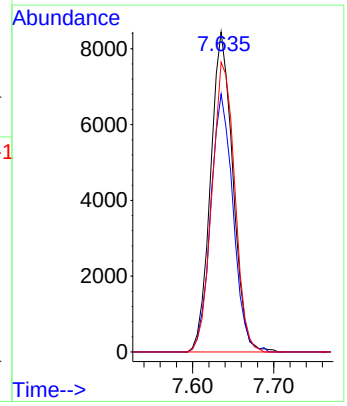




#46
Dibromomethane
Concen: 20.04 ug/l
RT: 7.635 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

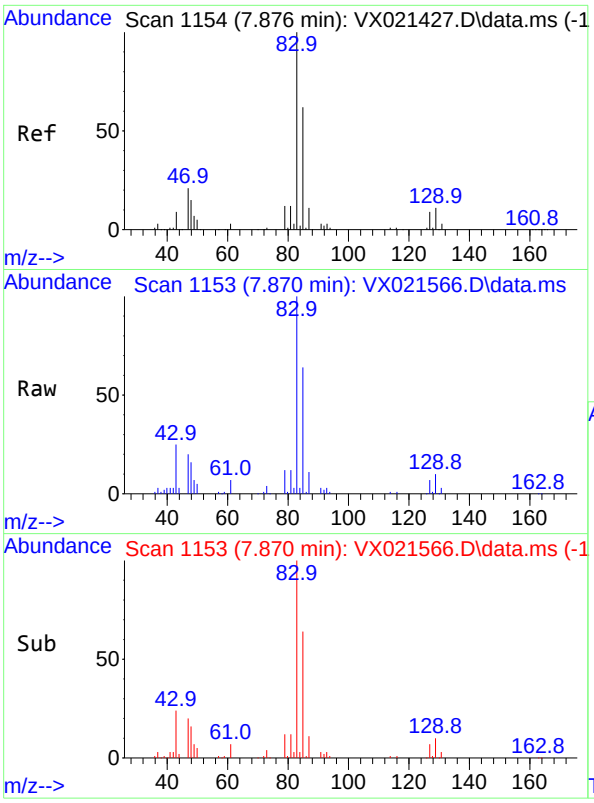
Tgt Ion: 93 Resp: 16100

Ion	Ratio	Lower	Upper
93	100		
95	80.8	66.8	100.2
174	92.3	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

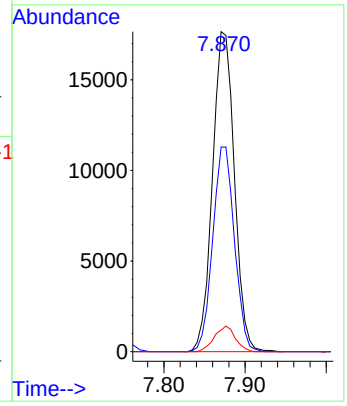
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

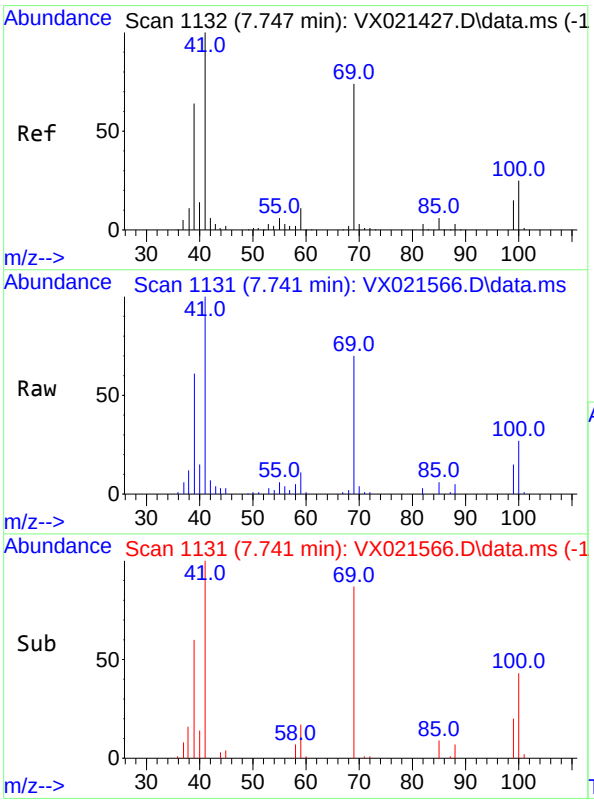


#47
Bromodichloromethane
Concen: 20.22 ug/l
RT: 7.870 min Scan# 1153
Delta R.T. -0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 83 Resp: 33055

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.4	77.0
127	6.8	6.8	10.2#

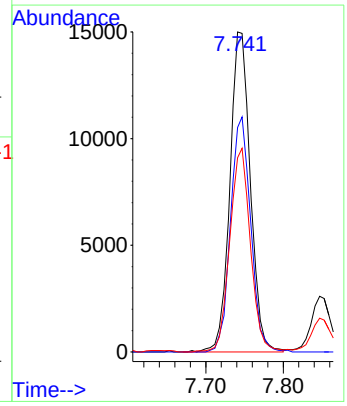




#48
Methyl methacrylate
Concen: 19.17 ug/l
RT: 7.741 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

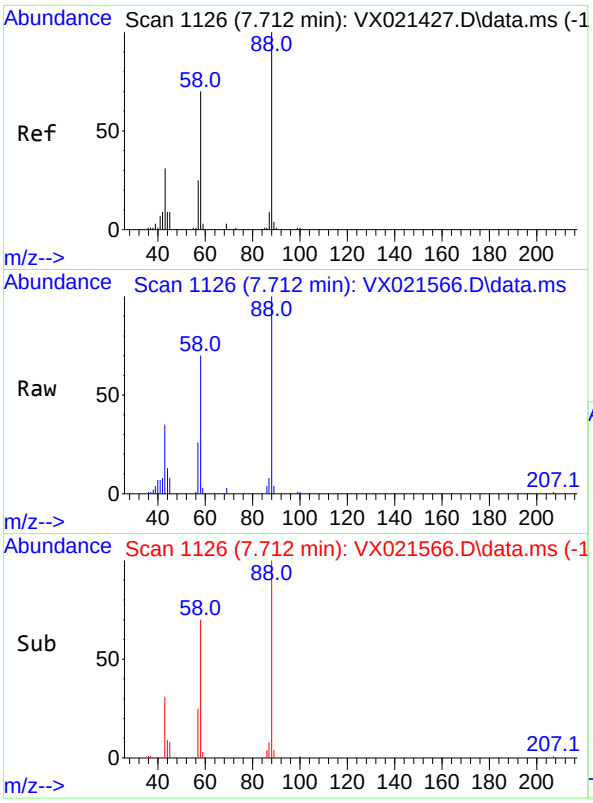
Tgt Ion: 41 Resp: 27512

Ion	Ratio	Lower	Upper
41	100		
69	72.7	76.0	114.0#
39	64.3	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

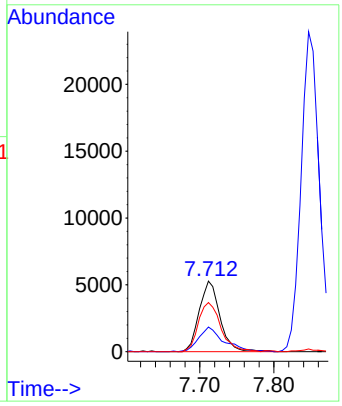
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

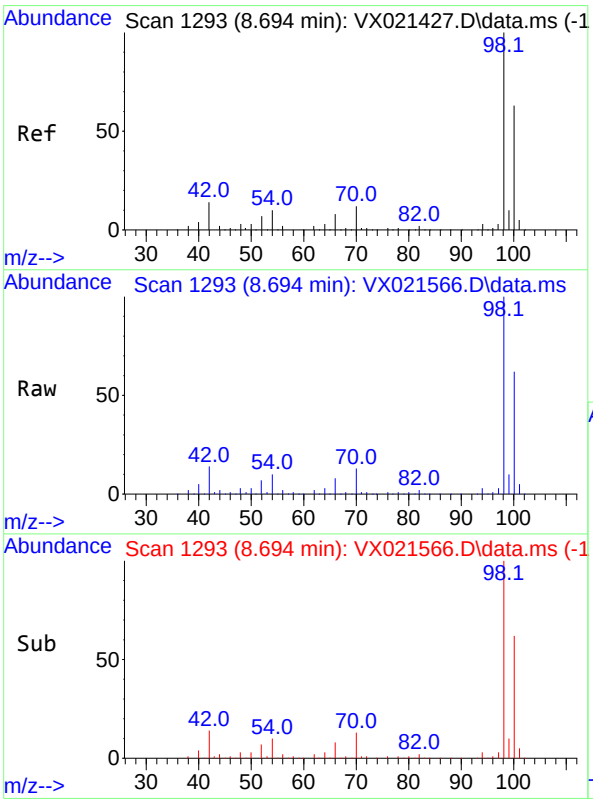


#49
1,4-Dioxane
Concen: 399.02 ug/l
RT: 7.712 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 88 Resp: 10253

Ion	Ratio	Lower	Upper
88	100		
43	42.3	23.2	34.8#
58	75.7	55.0	82.4

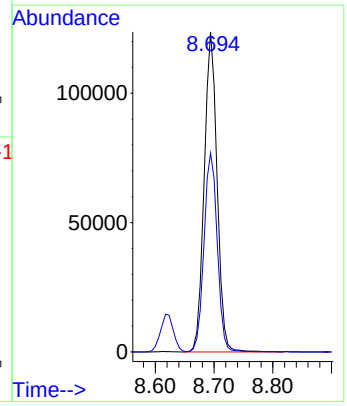




#50
Toluene-d8
Concen: 50.92 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

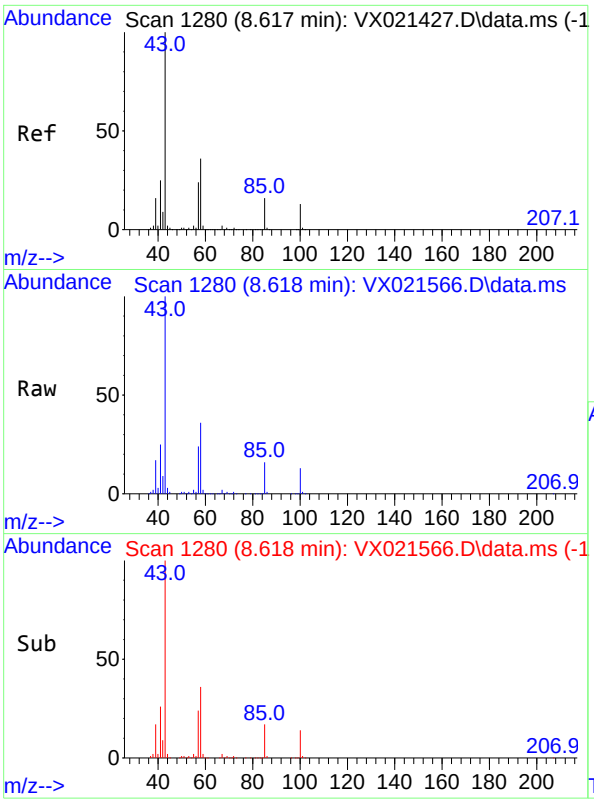
Tgt Ion: 98 Resp: 188512

Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

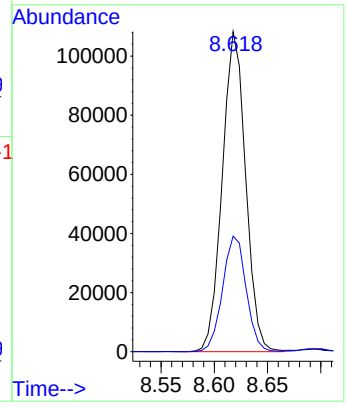
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

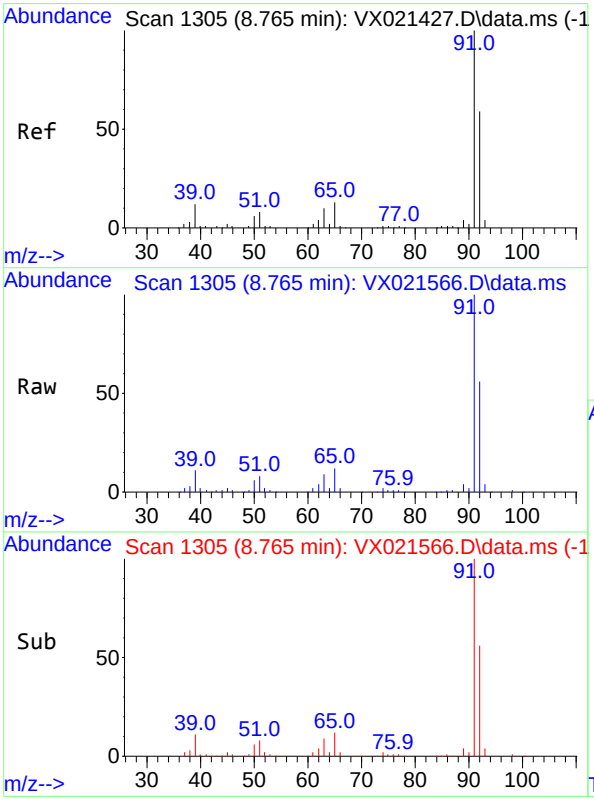


#51
4-Methyl-2-Pentanone
Concen: 99.67 ug/l
RT: 8.618 min Scan# 1280
Delta R.T. 0.001 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 43 Resp: 164938

Ion	Ratio	Lower	Upper
43	100		
58	36.5	35.4	53.0

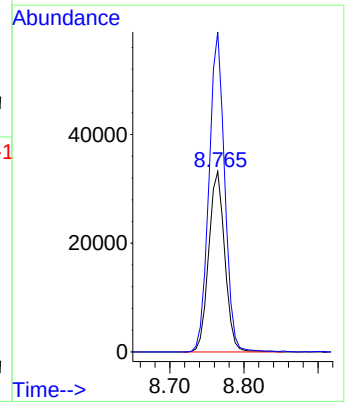




#52
Toluene
Concen: 19.94 ug/l
RT: 8.765 min Scan# 1305
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

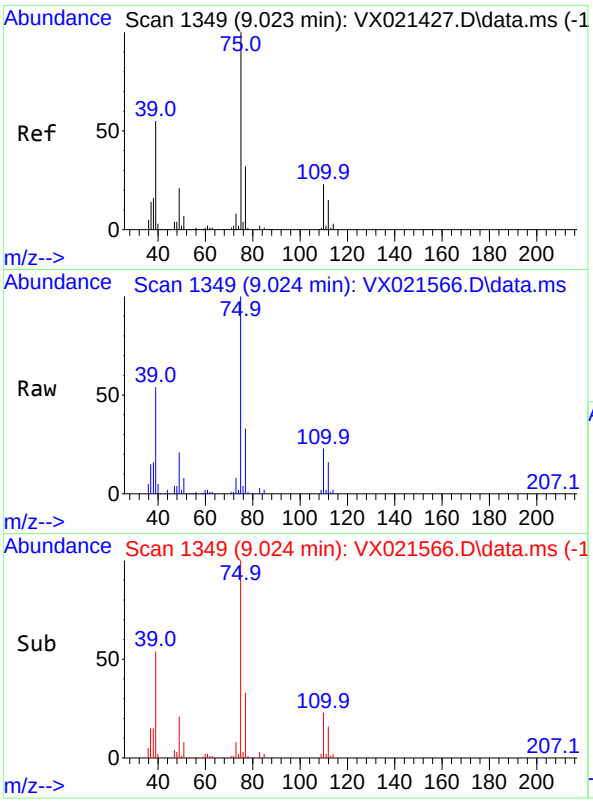
Tgt Ion: 92 Resp: 50109

Ion	Ratio	Lower	Upper
92	100		
91	173.0	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

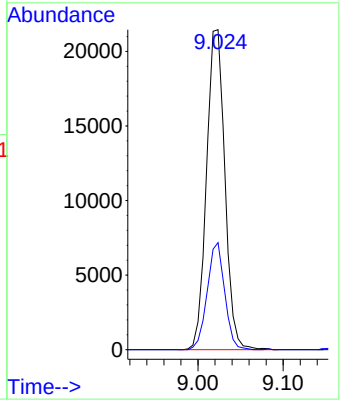
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

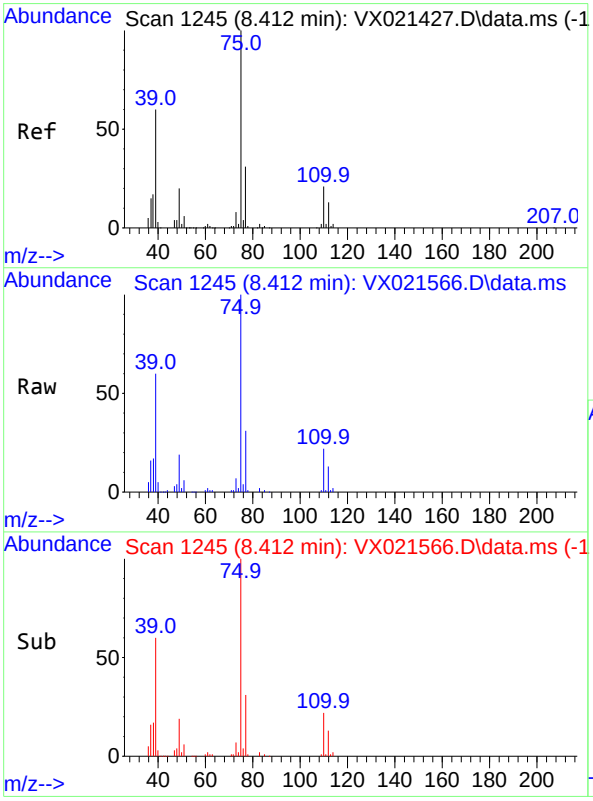


#53
t-1,3-Dichloropropene
Concen: 19.44 ug/l
RT: 9.024 min Scan# 1349
Delta R.T. 0.001 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 75 Resp: 32092

Ion	Ratio	Lower	Upper
75	100		
77	33.4	24.9	37.3

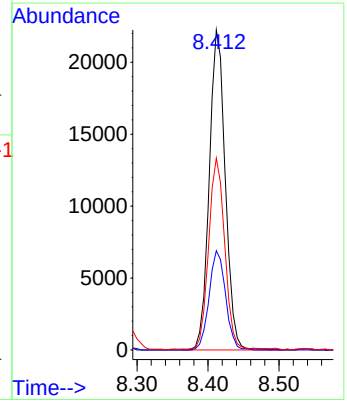




#54
cis-1,3-Dichloropropene
Concen: 19.86 ug/l
RT: 8.412 min Scan# 1245
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

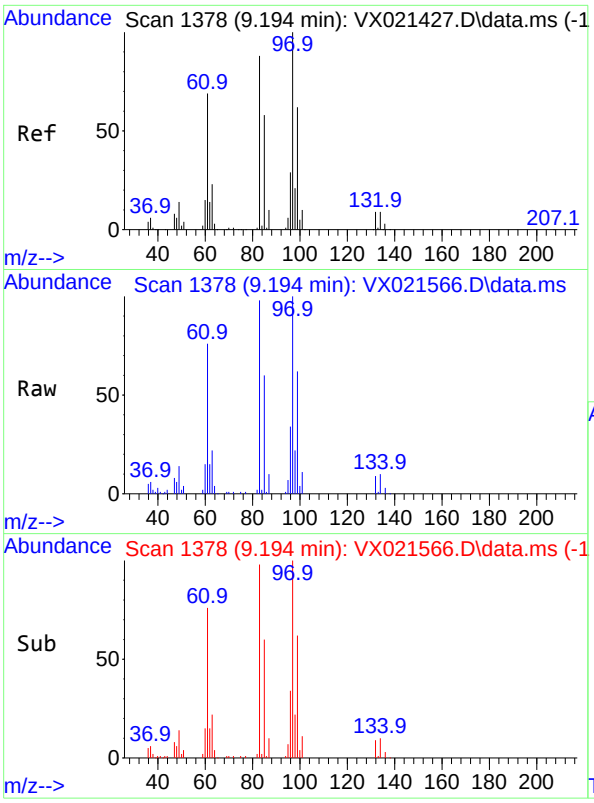
Tgt Ion: 75 Resp: 34896

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.7	38.5
39	59.9	35.1	52.7#



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

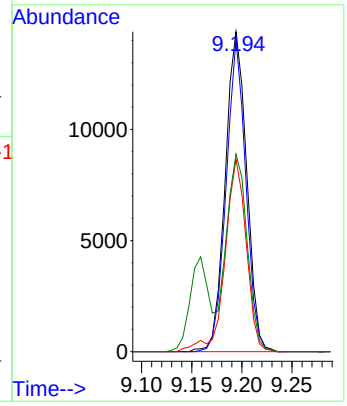
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

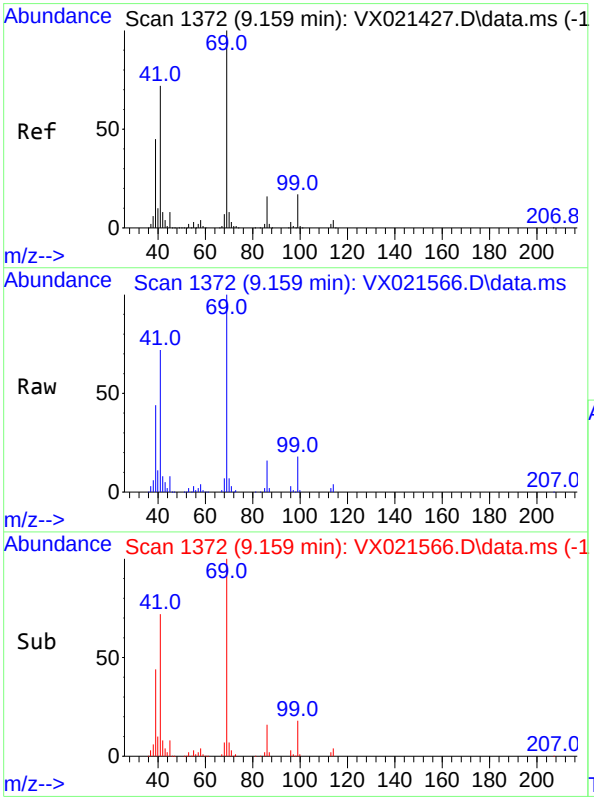


#55
1,1,2-Trichloroethane
Concen: 20.13 ug/l
RT: 9.194 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 97 Resp: 21357

Ion	Ratio	Lower	Upper
97	100		
83	97.8	69.3	103.9
85	60.1	44.3	66.5
99	61.7	50.3	75.5

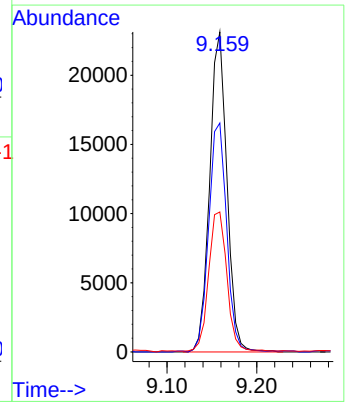




#56
Ethyl methacrylate
Concen: 18.61 ug/l
RT: 9.159 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

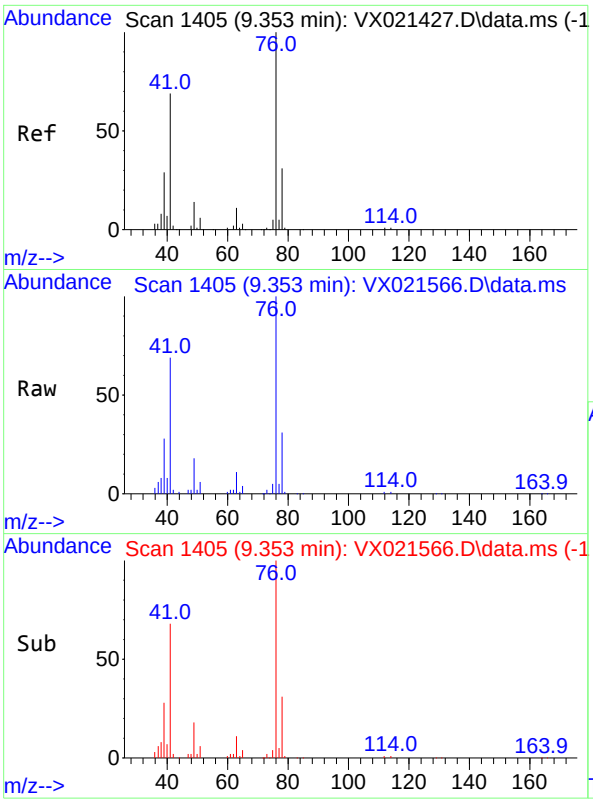
Tgt Ion: 69 Resp: 30897

Ion	Ratio	Lower	Upper
69	100		
41	74.9	46.8	70.2#
39	46.2	24.7	37.1#



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

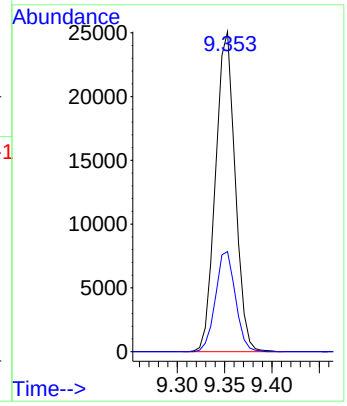
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

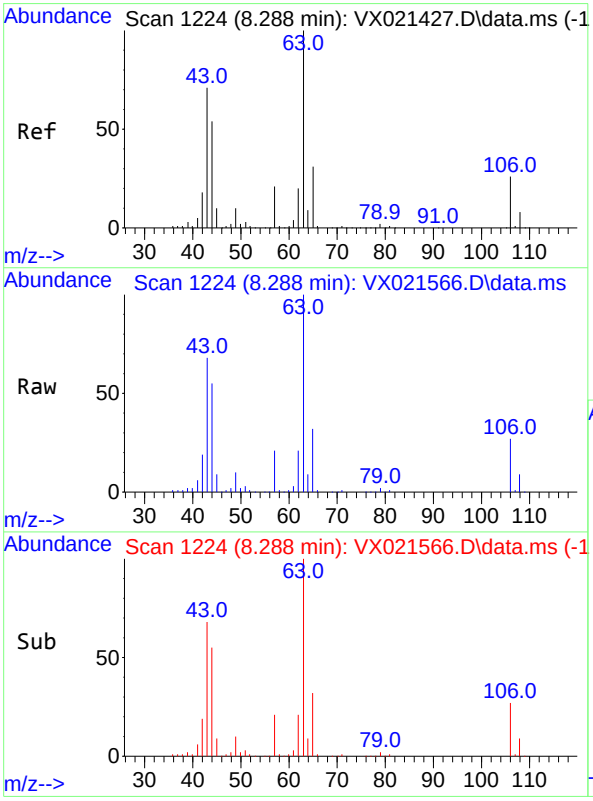


#57
1,3-Dichloropropane
Concen: 19.91 ug/l
RT: 9.353 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 76 Resp: 36148

Ion	Ratio	Lower	Upper
76	100		
78	31.7	26.2	39.2

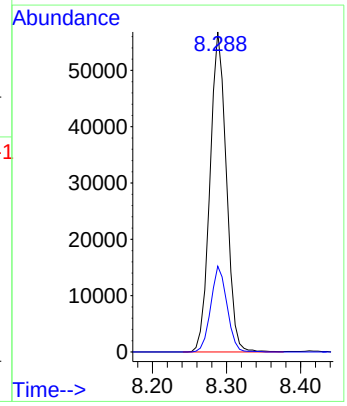




#58
2-Chloroethyl Vinyl ether
Concen: 97.55 ug/l
RT: 8.288 min Scan# 1224
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

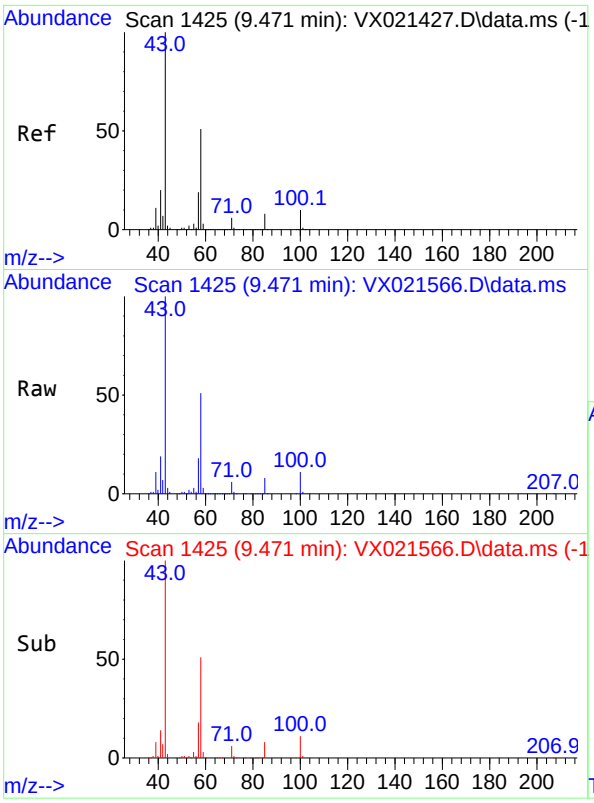
Tgt Ion: 63 Resp: 87464

Ion	Ratio	Lower	Upper
63	100		
106	26.4	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

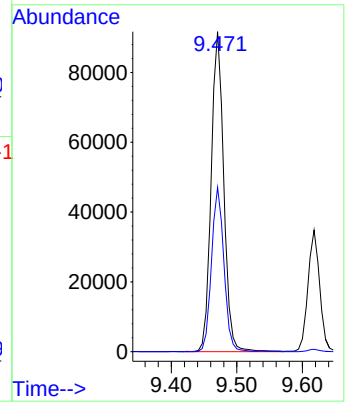
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

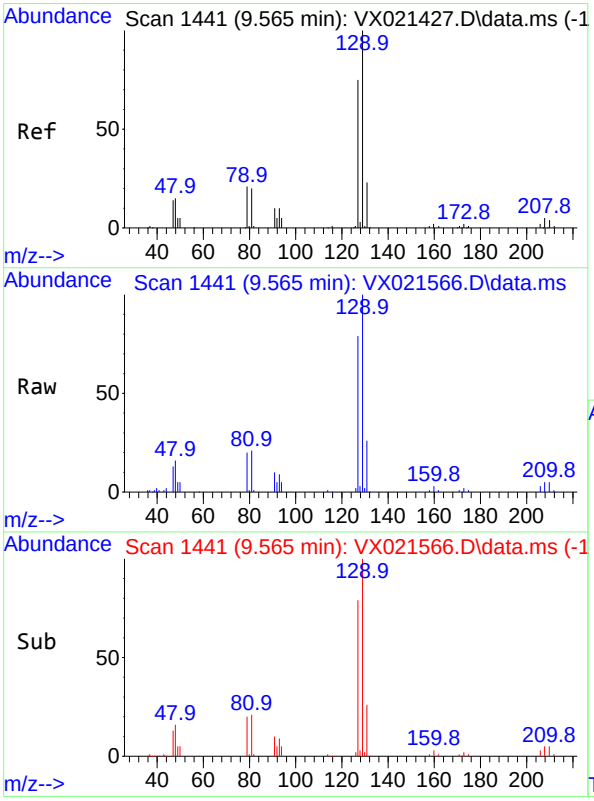


#59
2-Hexanone
Concen: 98.83 ug/l
RT: 9.471 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 43 Resp: 122813

Ion	Ratio	Lower	Upper
43	100		
58	50.8	30.9	92.8

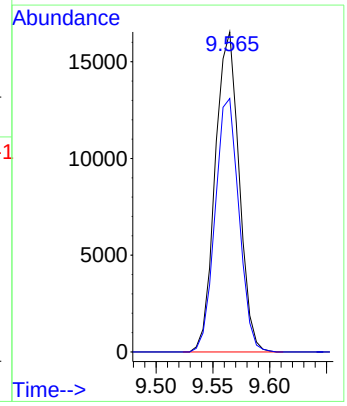




#60
Dibromochloromethane
Concen: 20.34 ug/l
RT: 9.565 min Scan# 1441
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

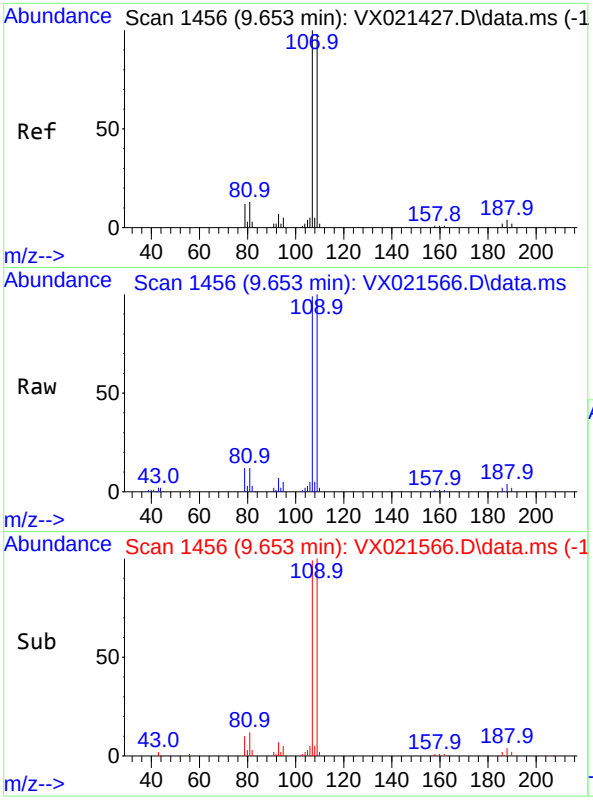
Tgt Ion:129 Resp: 24174

Ion	Ratio	Lower	Upper
129	100		
127	79.2	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

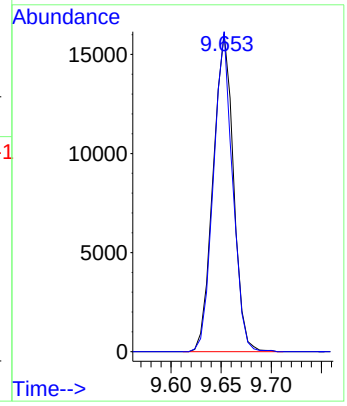
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

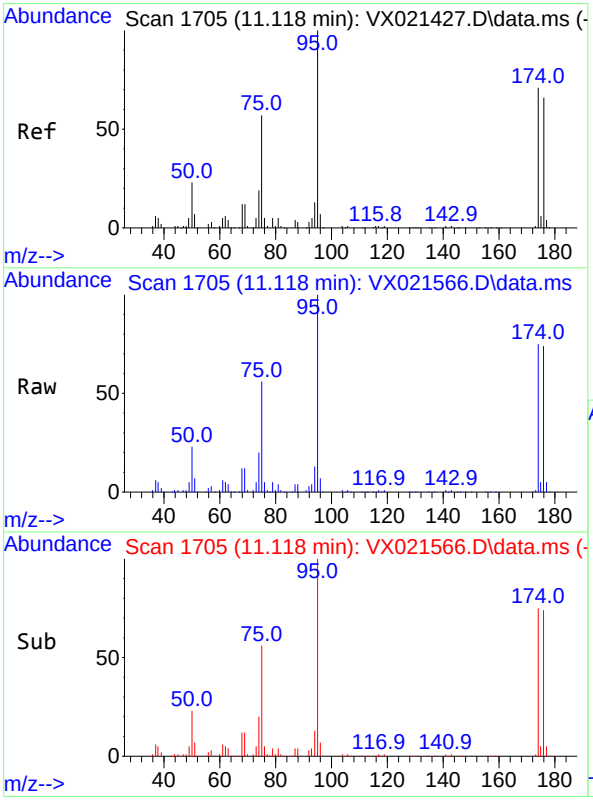


#61
1,2-Dibromoethane
Concen: 19.84 ug/l
RT: 9.653 min Scan# 1456
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:107 Resp: 22616

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.8	113.6

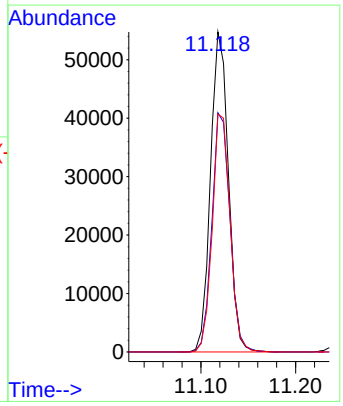




#62
4-Bromofluorobenzene
Concen: 49.86 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

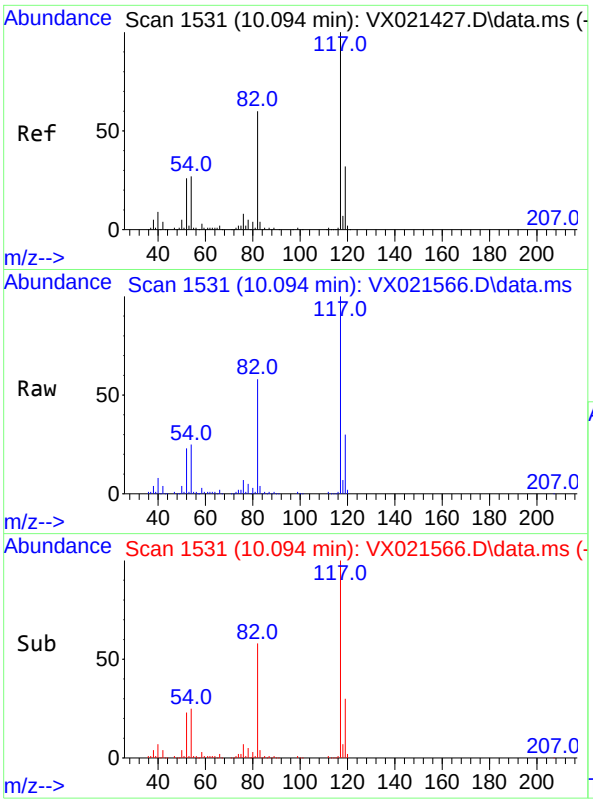
Tgt Ion: 95 Resp: 71760

Ion	Ratio	Lower	Upper
95	100		
174	75.5	0.0	154.6
176	74.0	0.0	155.8



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

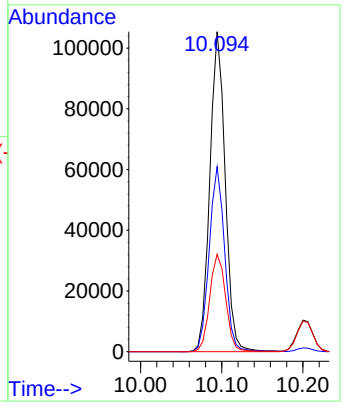
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

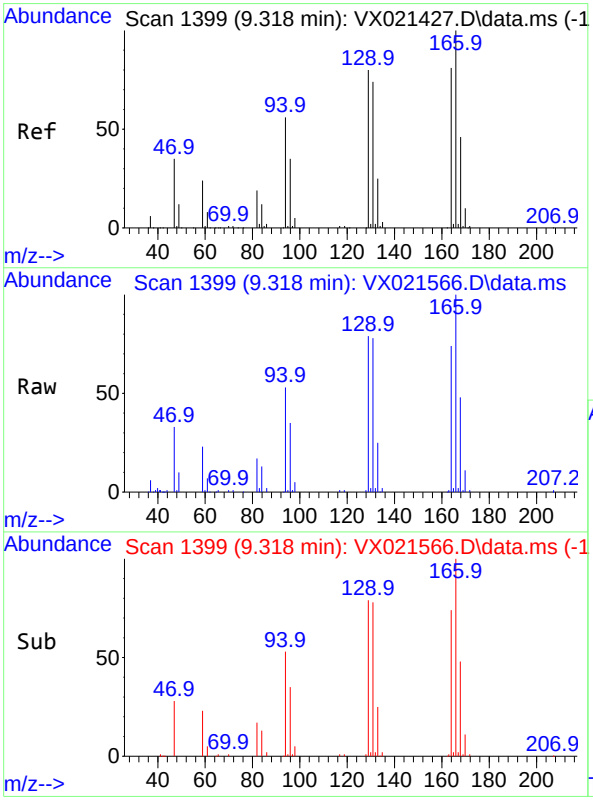


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:117 Resp: 138179

Ion	Ratio	Lower	Upper
117	100		
82	57.8	47.4	71.2
119	30.4	26.6	39.8

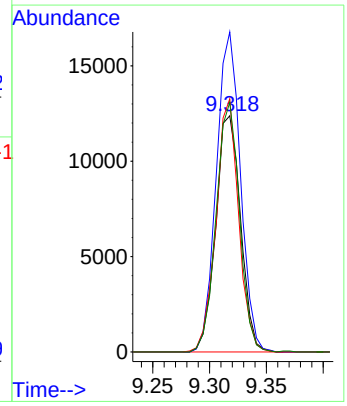




#64
Tetrachloroethene
Concen: 20.26 ug/l
RT: 9.318 min Scan# 1399
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

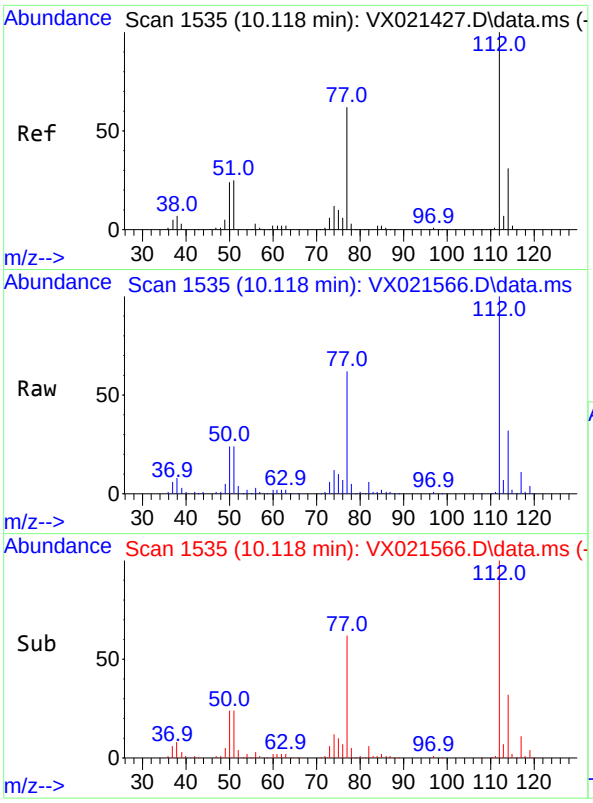
Tgt Ion:164 Resp: 18750

Ion	Ratio	Lower	Upper
164	100		
166	135.5	103.4	155.2
129	107.1	70.8	106.2#
131	105.7	72.5	108.7



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

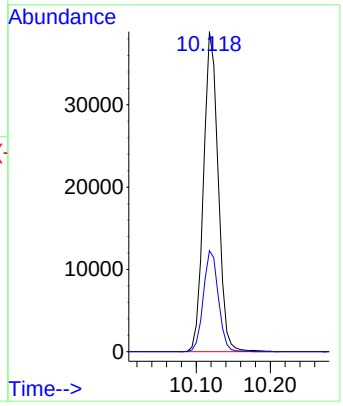
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

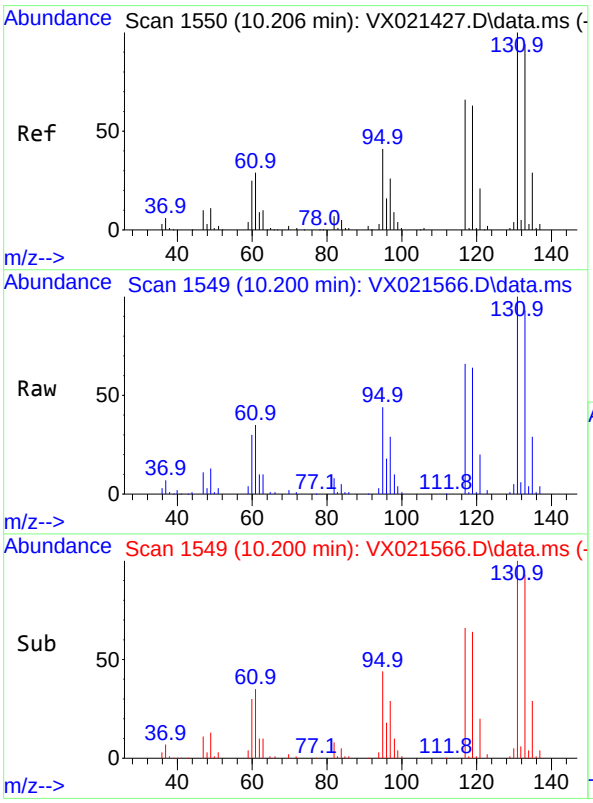


#65
Chlorobenzene
Concen: 19.16 ug/l
RT: 10.118 min Scan# 1535
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:112 Resp: 53184

Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.8	38.6

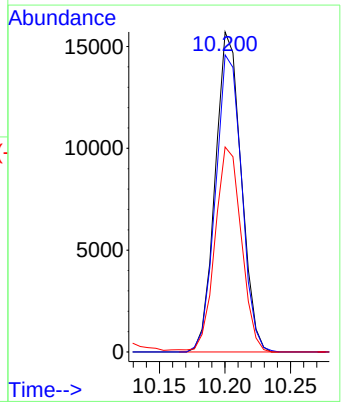




#66
1,1,1,2-Tetrachloroethane
Concen: 20.27 ug/l
RT: 10.200 min Scan# 1549
Delta R.T. -0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

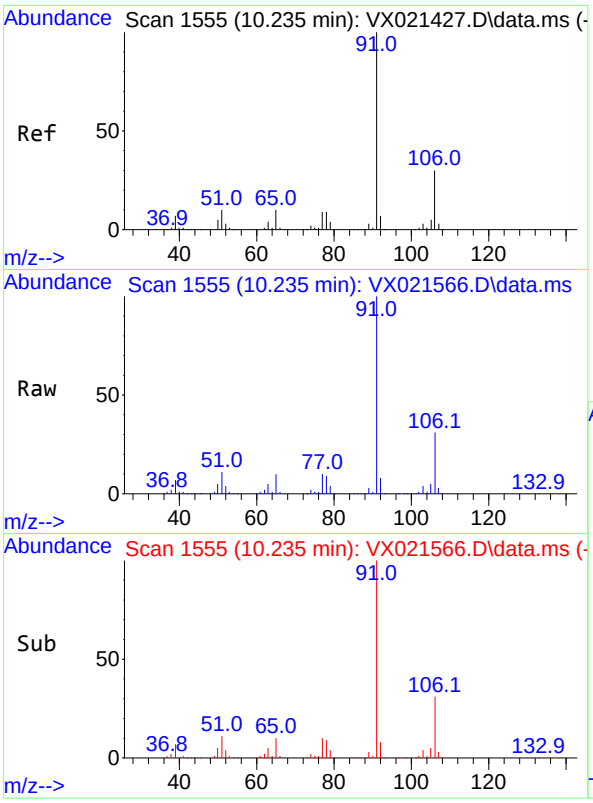
Tgt Ion:131 Resp: 21561

Ion	Ratio	Lower	Upper
131	100		
133	93.5	47.7	143.1
119	65.2	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

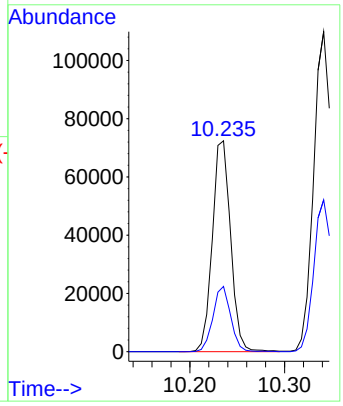
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

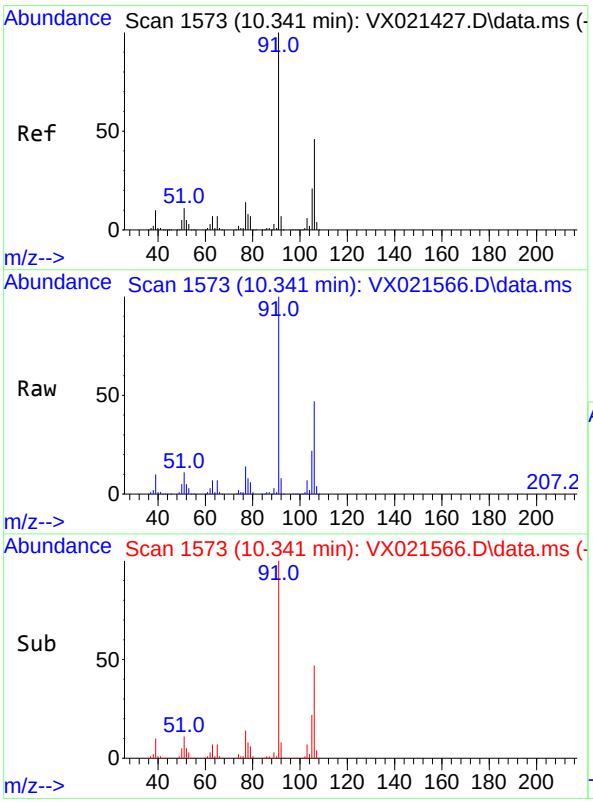


#67
Ethyl Benzene
Concen: 19.20 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 91 Resp: 97158

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.6	37.0

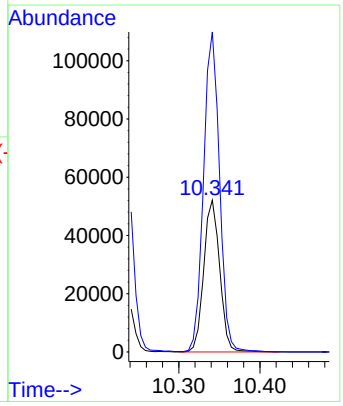




#68
m/p-Xylenes
Concen: 39.38 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

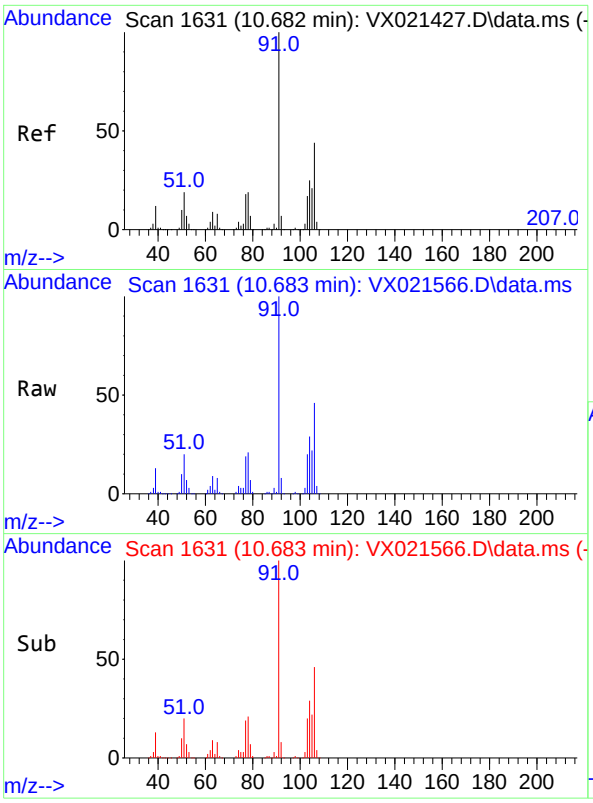
Tgt Ion:106 Resp: 70986

Ion	Ratio	Lower	Upper
106	100		
91	211.6	162.8	244.2



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

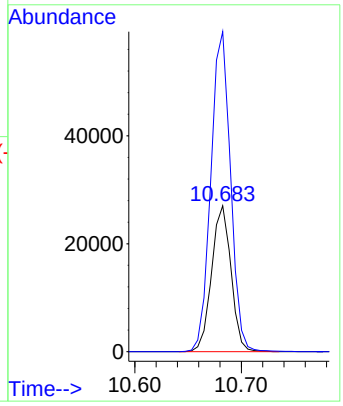
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

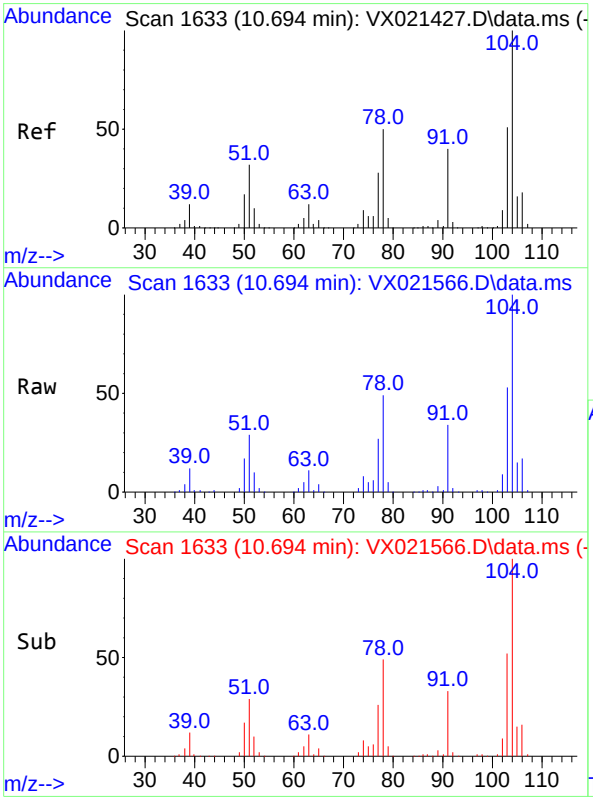


#69
o-Xylene
Concen: 19.56 ug/l
RT: 10.683 min Scan# 1631
Delta R.T. 0.001 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:106 Resp: 34158

Ion	Ratio	Lower	Upper
106	100		
91	222.9	108.1	324.2

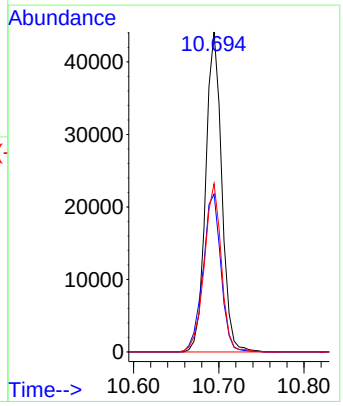




#70
Styrene
Concen: 19.20 ug/l
RT: 10.694 min Scan# 1633
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

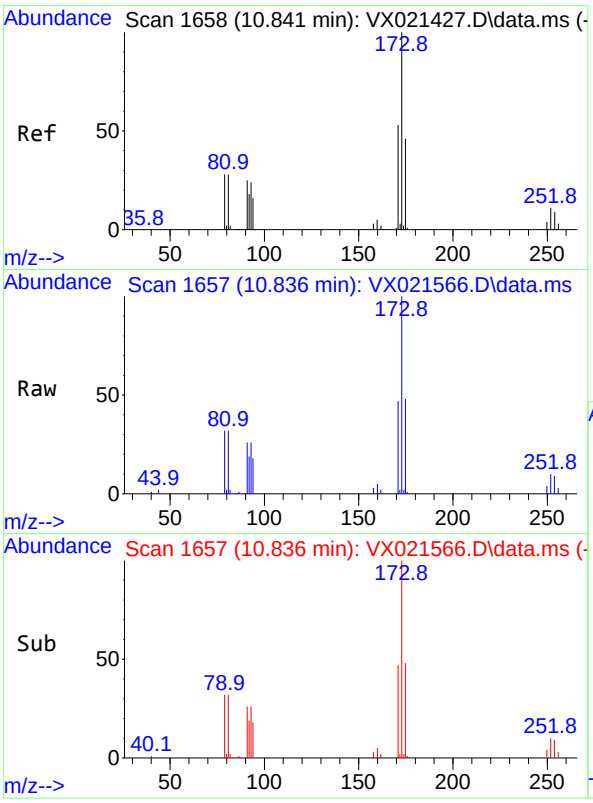
Tgt Ion:104 Resp: 57638

Ion	Ratio	Lower	Upper
104	100		
78	55.3	40.0	60.0
103	56.1	43.4	65.0



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

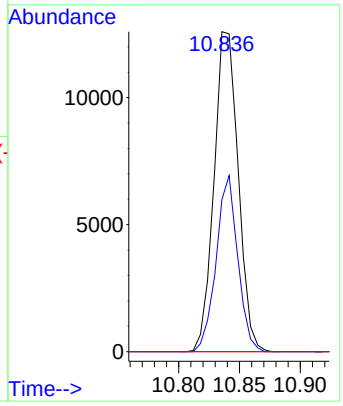
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

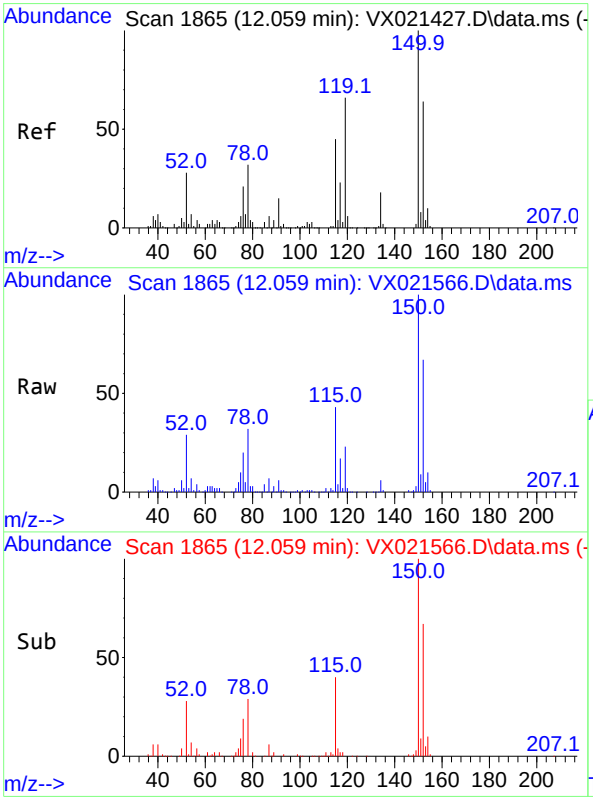


#71
Bromoform
Concen: 20.18 ug/l
RT: 10.836 min Scan# 1657
Delta R.T. -0.005 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:173 Resp: 17442

Ion	Ratio	Lower	Upper
173	100		
175	49.0	23.9	71.8
254	0.0	0.1	0.1#

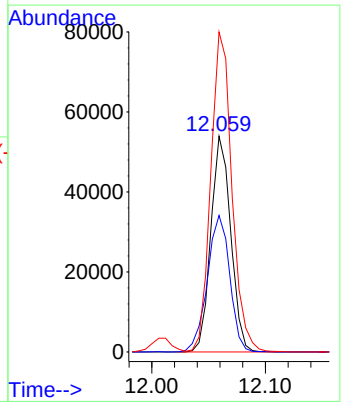




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

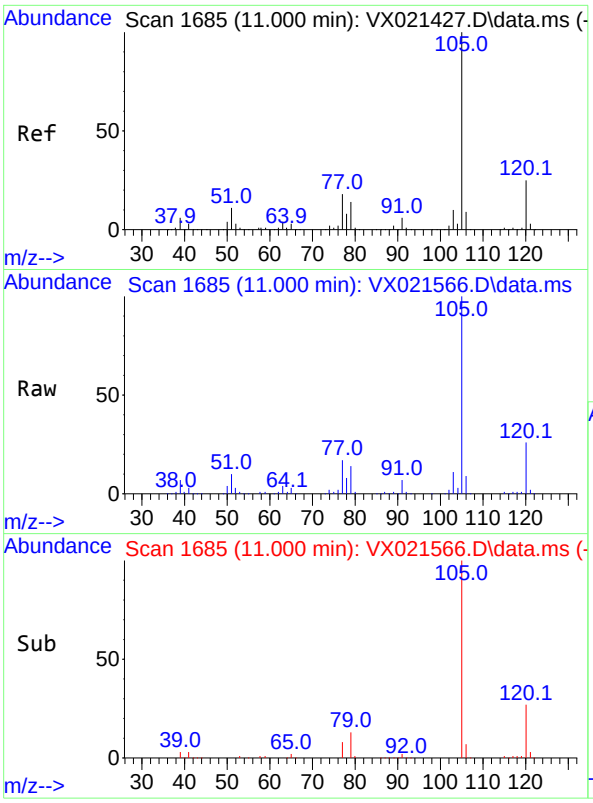
Tgt Ion:152 Resp: 65643

Ion	Ratio	Lower	Upper
152	100		
115	71.3	41.1	123.3
150	157.4	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

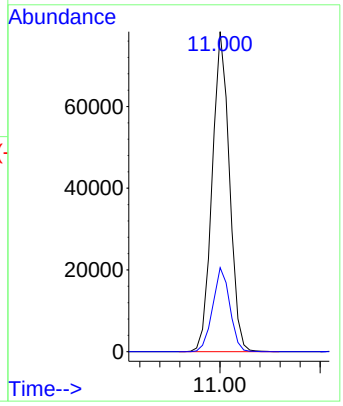
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

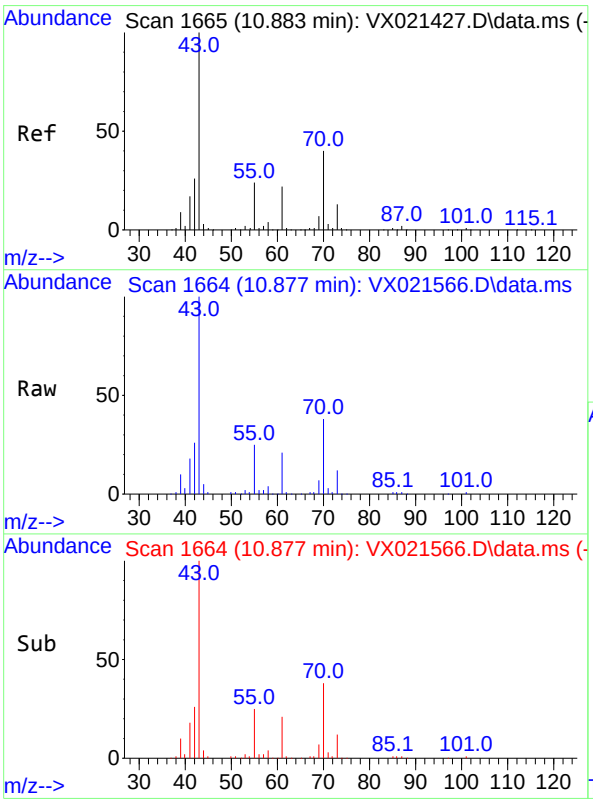


#73
Isopropylbenzene
Concen: 20.24 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:105 Resp: 93349

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.6

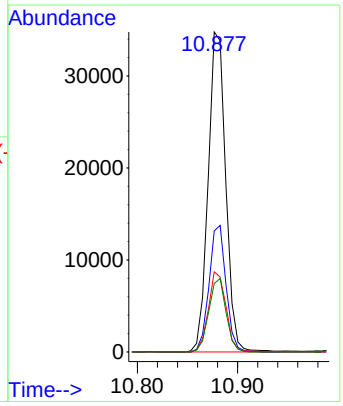




#74
N-amyl acetate
Concen: 19.05 ug/l
RT: 10.877 min Scan# 1664
Delta R.T. -0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

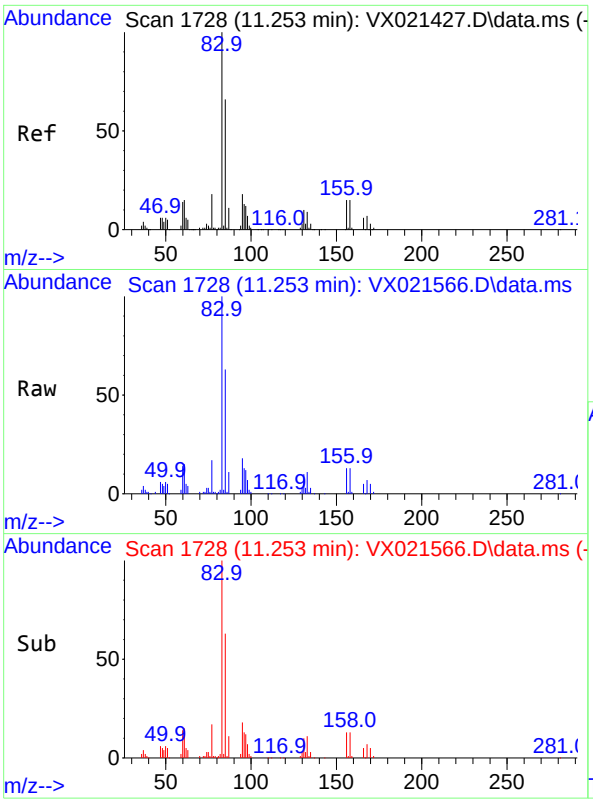
Tgt Ion: 43 Resp: 42517

Ion	Ratio	Lower	Upper
43	100		
70	38.2	39.0	58.6#
55	25.1	21.5	32.3
61	22.5	22.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

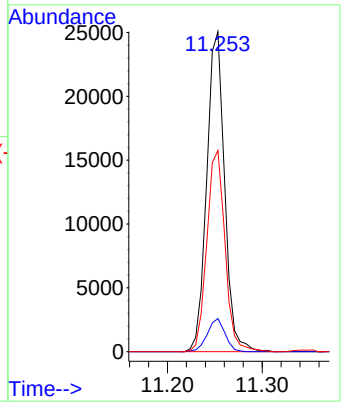
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

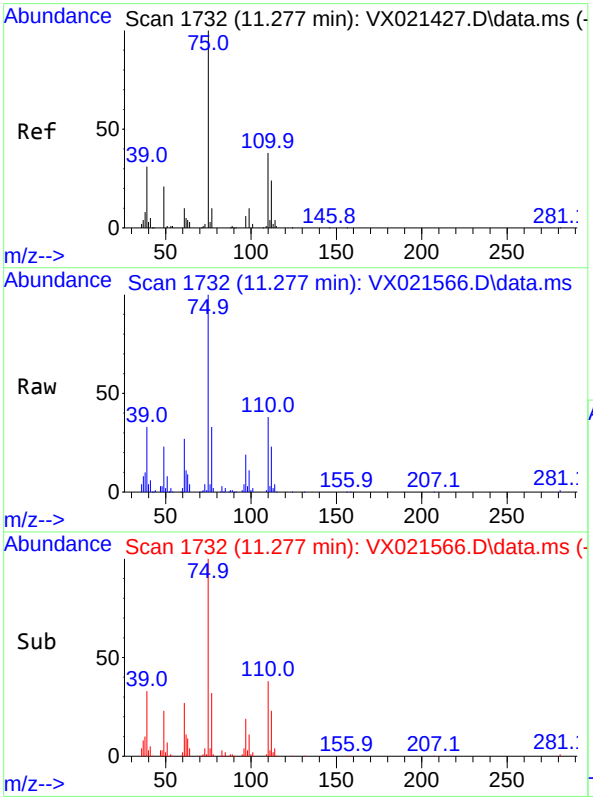


#75
1,1,2,2-Tetrachloroethane
Concen: 20.13 ug/l
RT: 11.253 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 83 Resp: 32807

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.2
85	64.1	31.8	95.4

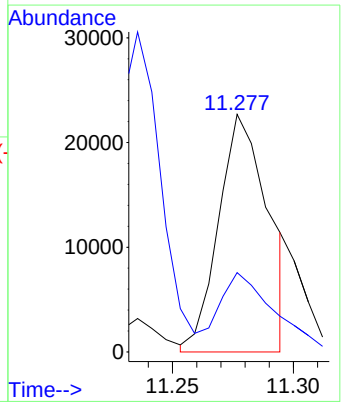




#76
1,2,3-Trichloropropane
Concen: 21.13 ug/l m
RT: 11.277 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

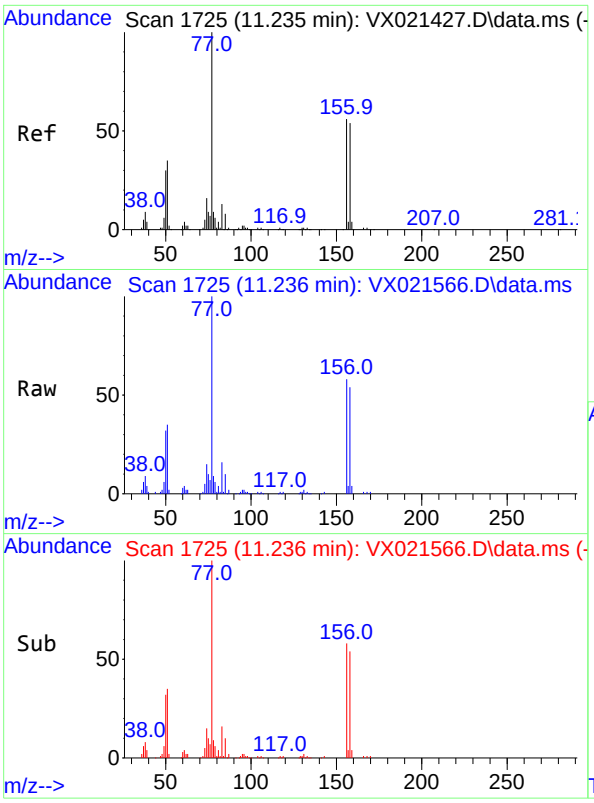
Tgt Ion: 75 Resp: 32295

Ion	Ratio	Lower	Upper
75	100		
77	37.6	19.1	57.5



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

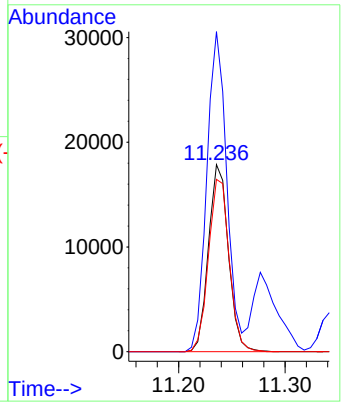
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

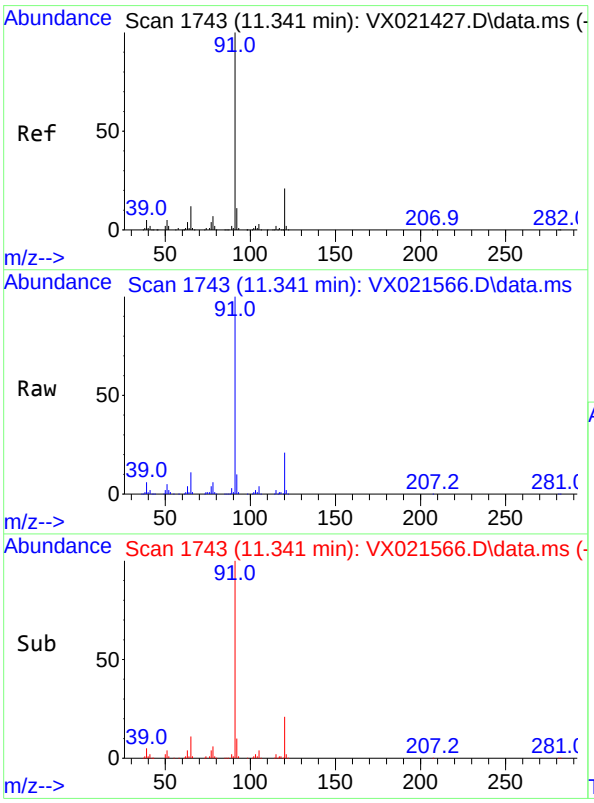


#77
Bromobenzene
Concen: 20.32 ug/l
RT: 11.236 min Scan# 1725
Delta R.T. 0.001 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:156 Resp: 23230

Ion	Ratio	Lower	Upper
156	100		
77	170.2	82.8	248.6
158	95.7	49.1	147.4

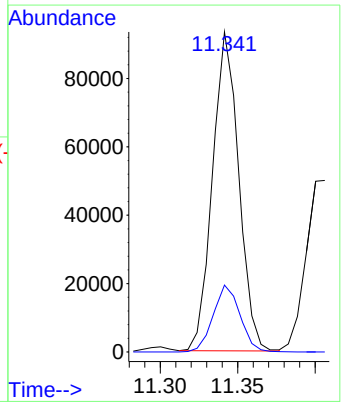




#78
n-propylbenzene
Concen: 20.14 ug/l
RT: 11.341 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

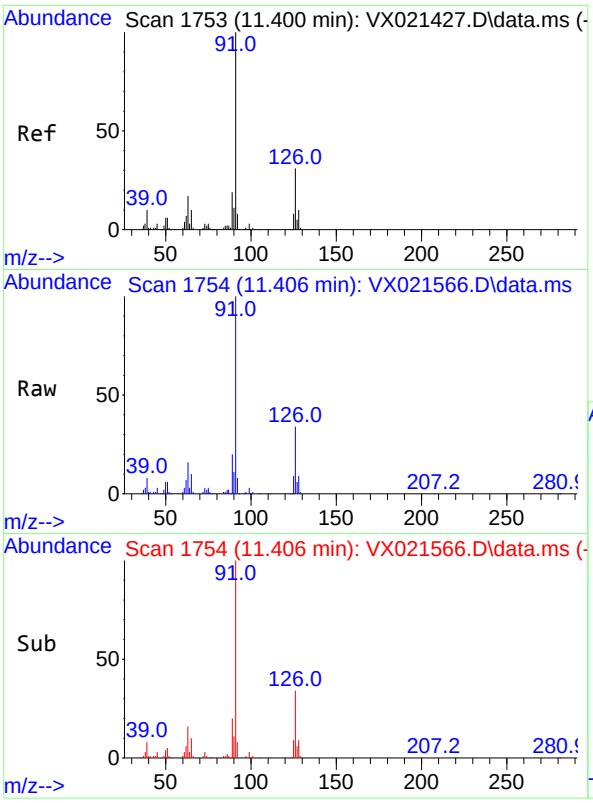
Tgt Ion: 91 Resp: 109704

Ion	Ratio	Lower	Upper
91	100		
120	21.5	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

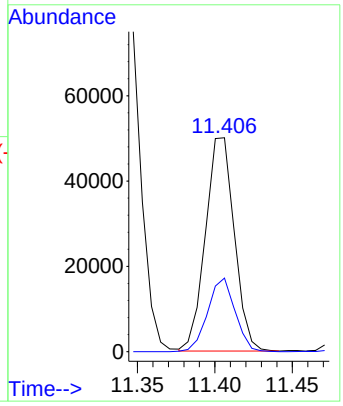
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

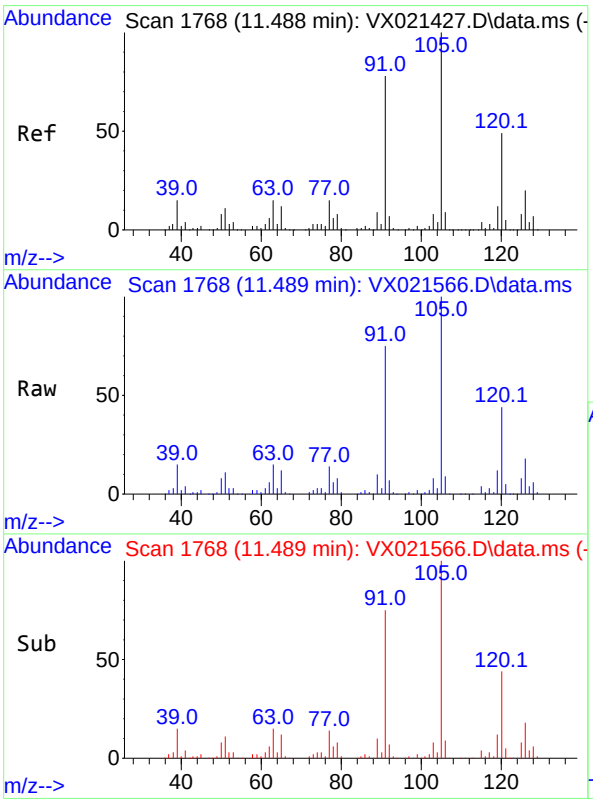


#79
2-Chlorotoluene
Concen: 19.62 ug/l
RT: 11.406 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 91 Resp: 64829

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.6	49.8

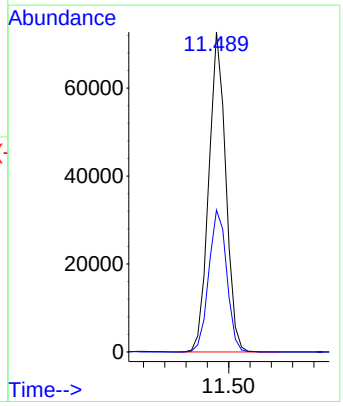




#80
1,3,5-Trimethylbenzene
Concen: 20.41 ug/l
RT: 11.489 min Scan# 1768
Delta R.T. 0.001 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

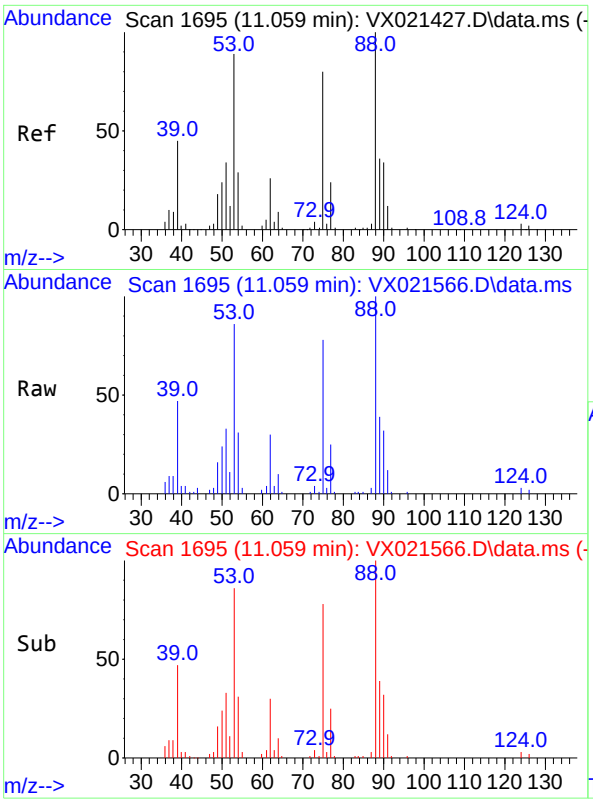
Tgt Ion:105 Resp: 80414

Ion	Ratio	Lower	Upper
105	100		
120	46.9	23.8	71.5



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

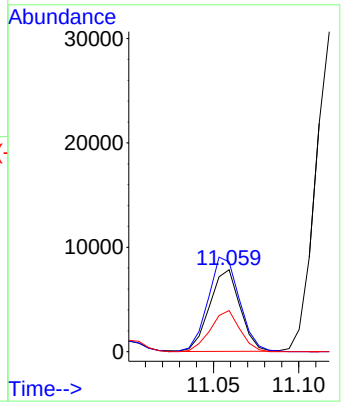
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

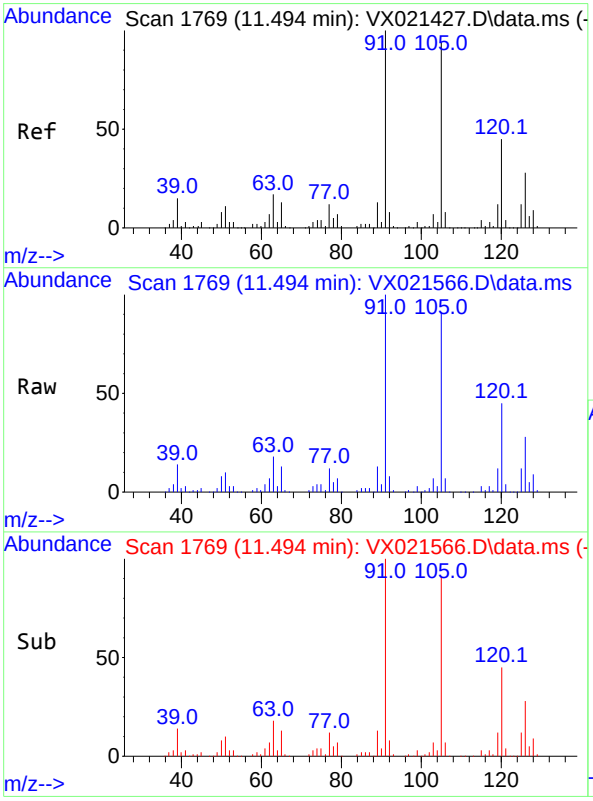


#81
trans-1,4-Dichloro-2-butene
Concen: 19.39 ug/l
RT: 11.059 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 75 Resp: 9727

Ion	Ratio	Lower	Upper
75	100		
53	120.2	74.5	111.7#
89	48.9	37.9	56.9

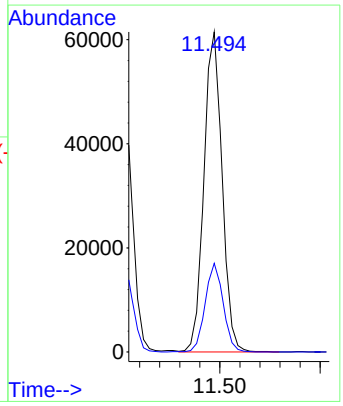




#82
4-Chlorotoluene
Concen: 19.79 ug/l
RT: 11.494 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

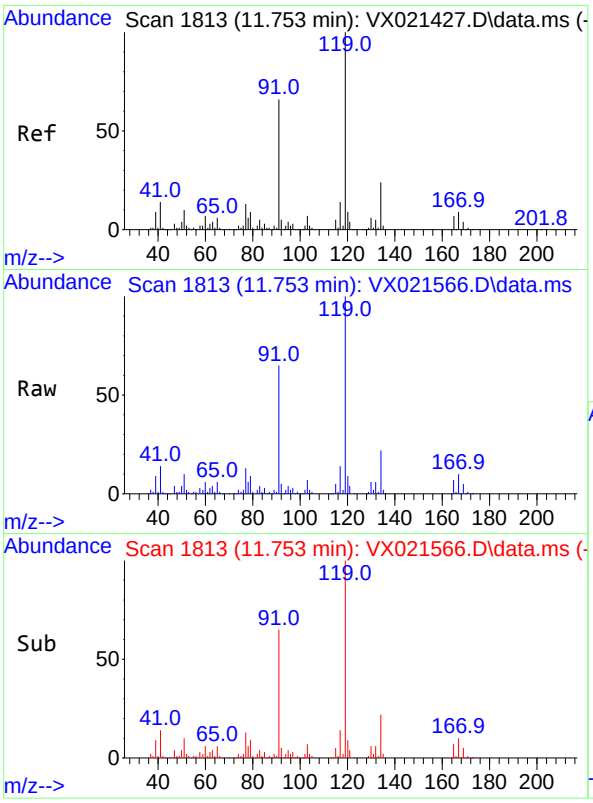
Tgt Ion: 91 Resp: 77619

Ion	Ratio	Lower	Upper
91	100		
126	27.4	14.9	44.5



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

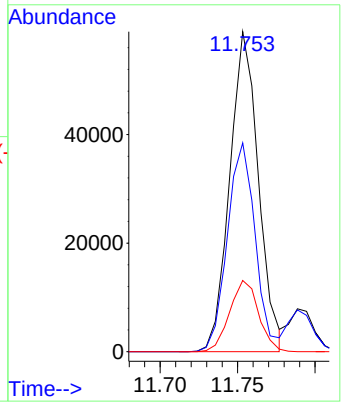
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

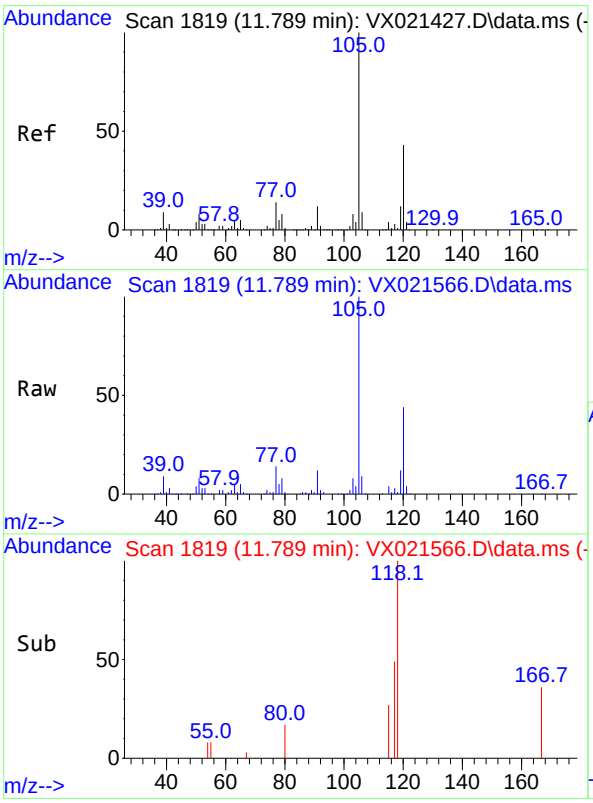


#83
tert-Butylbenzene
Concen: 19.77 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:119 Resp: 75831

Ion	Ratio	Lower	Upper
119	100		
91	63.8	27.9	83.7
134	22.5	11.3	33.9

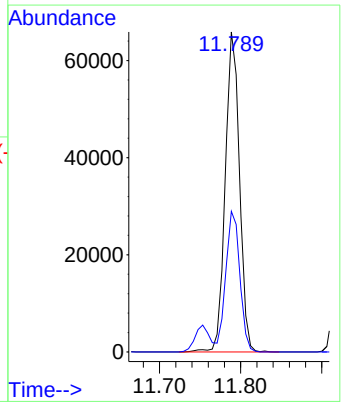




#84
1,2,4-Trimethylbenzene
Concen: 20.23 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

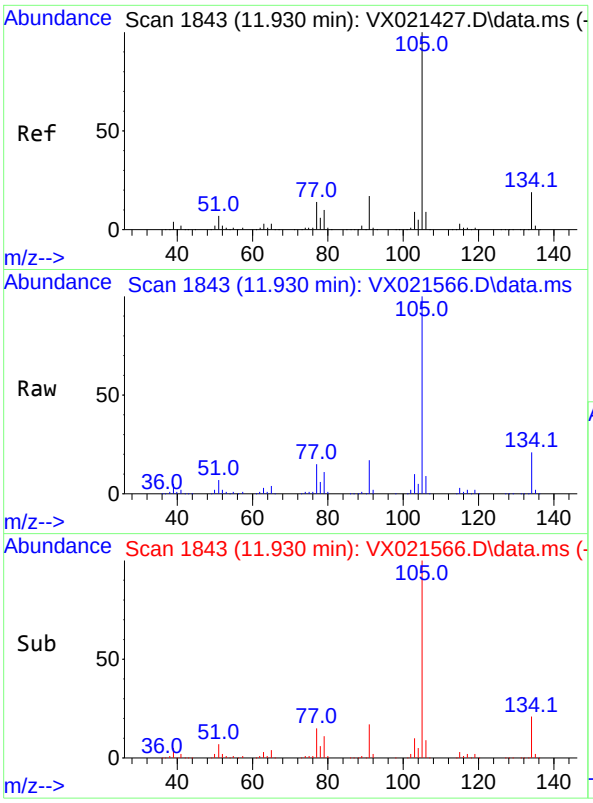
Tgt Ion:105 Resp: 80349

Ion	Ratio	Lower	Upper
105	100		
120	43.1	22.4	67.3



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

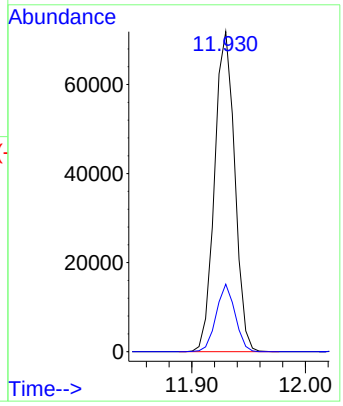
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

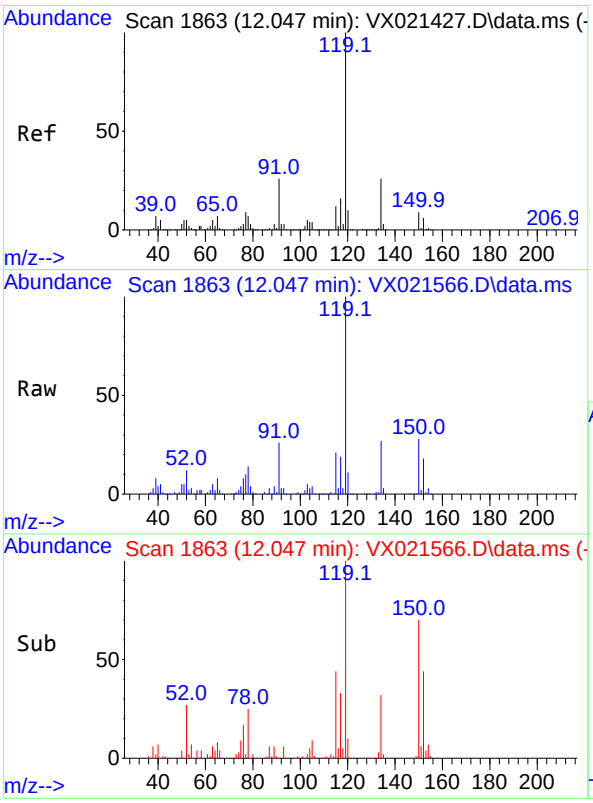


#85
sec-Butylbenzene
Concen: 20.01 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:105 Resp: 88533

Ion	Ratio	Lower	Upper
105	100		
134	19.8	10.0	29.8

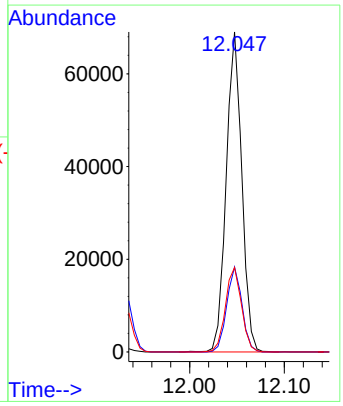




#86
p-Isopropyltoluene
Concen: 19.62 ug/l
RT: 12.047 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

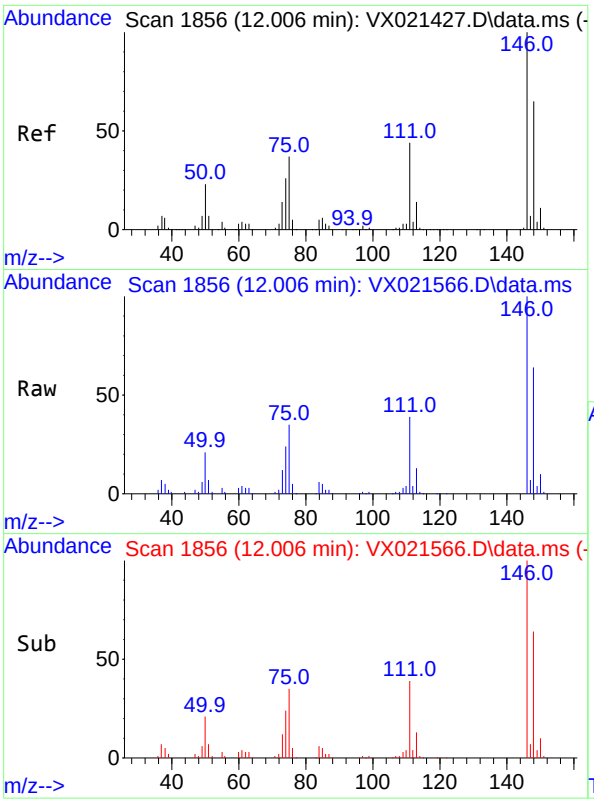
Tgt Ion:119 Resp: 79017

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.7
91	27.2	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

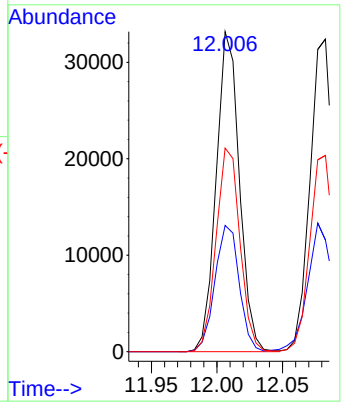
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

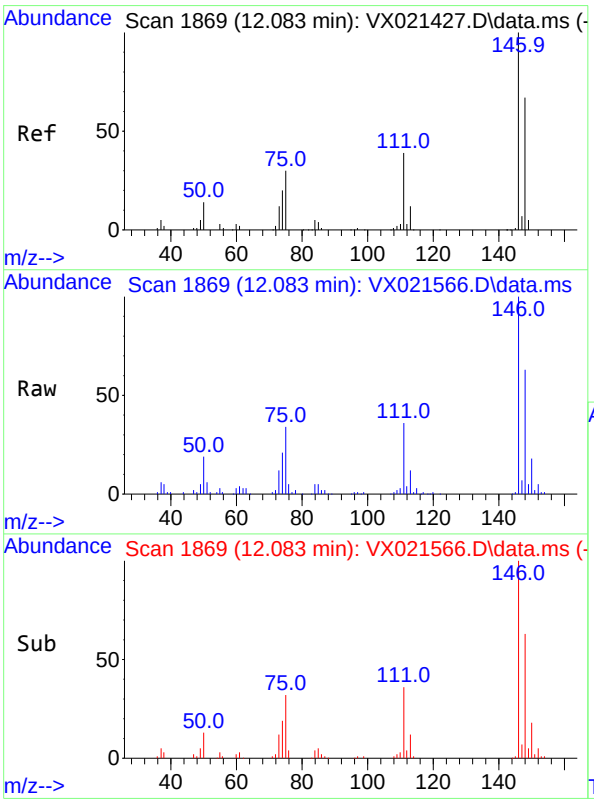


#87
1,3-Dichlorobenzene
Concen: 19.80 ug/l
RT: 12.006 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:146 Resp: 40769

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.2	60.5
148	65.6	31.9	95.7

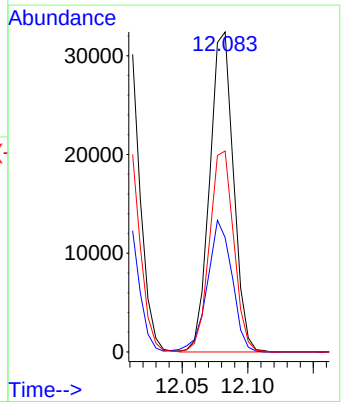




#88
1,4-Dichlorobenzene
Concen: 19.21 ug/l
RT: 12.083 min Scan# 1869
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

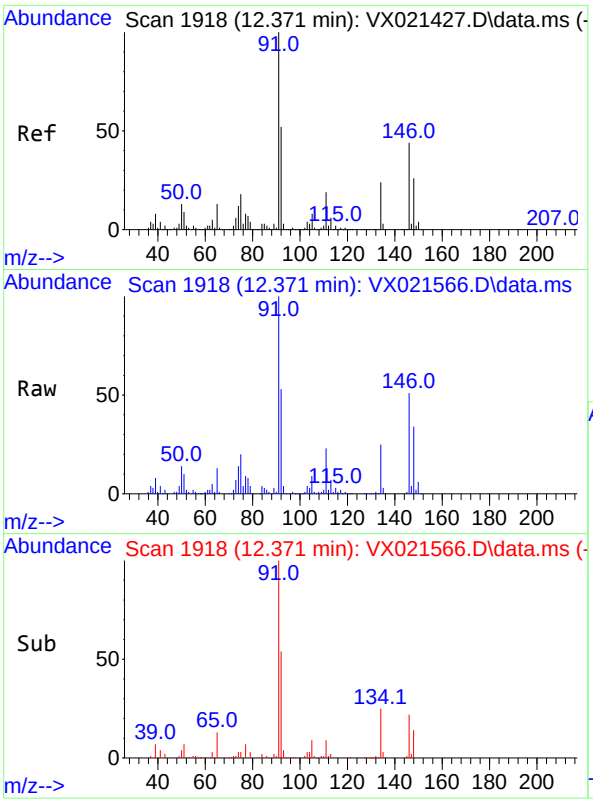
Tgt Ion:146 Resp: 40922

Ion	Ratio	Lower	Upper
146	100		
111	42.7	19.6	58.8
148	64.1	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

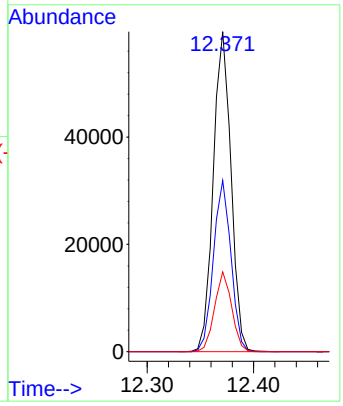
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

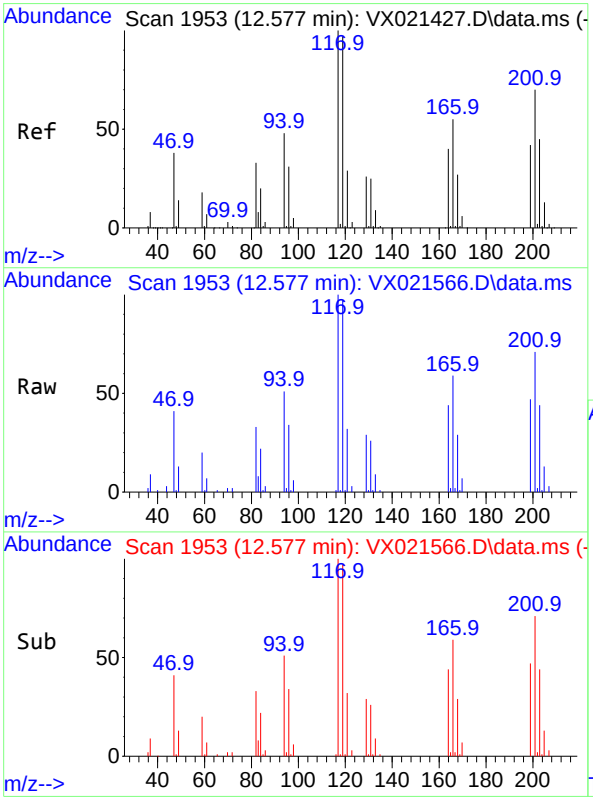


#89
n-Butylbenzene
Concen: 18.62 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion: 91 Resp: 68727

Ion	Ratio	Lower	Upper
91	100		
92	52.9	27.4	82.0
134	24.1	13.2	39.5

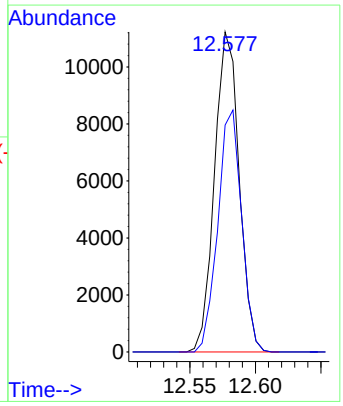




#90
Hexachloroethane
Concen: 20.11 ug/l
RT: 12.577 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

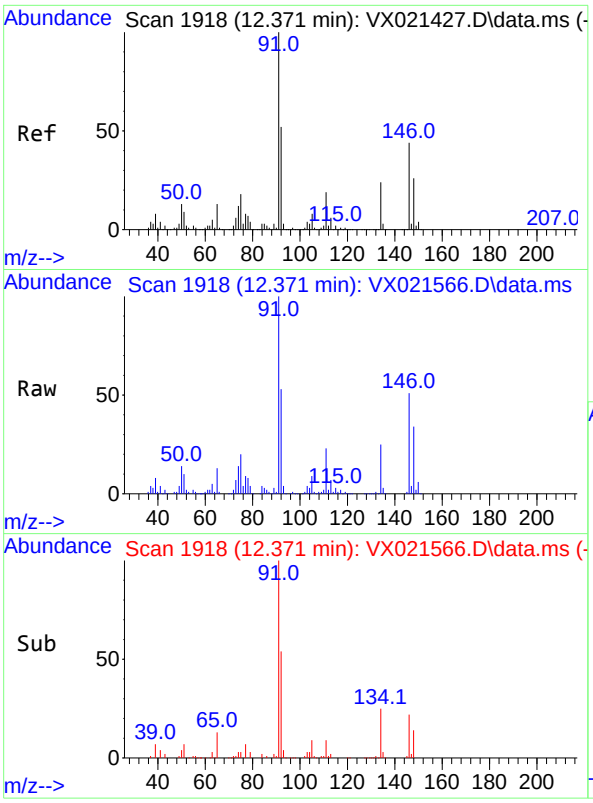
Tgt Ion:117 Resp: 14623

Ion	Ratio	Lower	Upper
117	100		
201	73.2	40.4	121.2



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

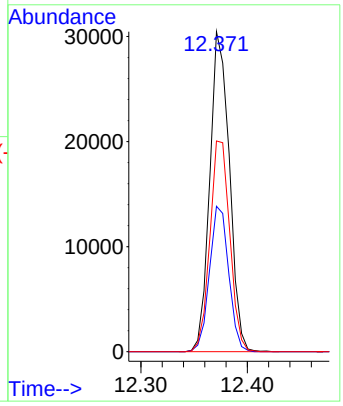
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

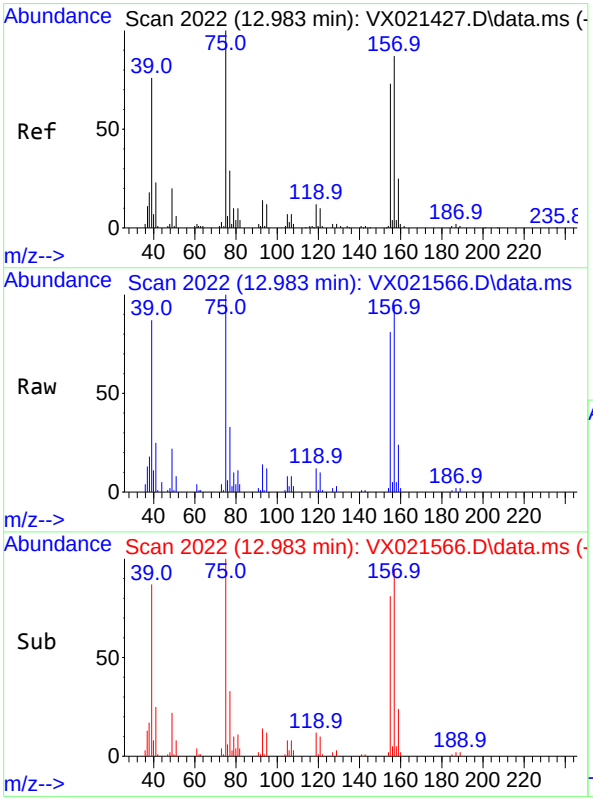


#91
1,2-Dichlorobenzene
Concen: 19.41 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:146 Resp: 38859

Ion	Ratio	Lower	Upper
146	100		
111	44.6	20.8	62.2
148	67.0	31.9	95.5

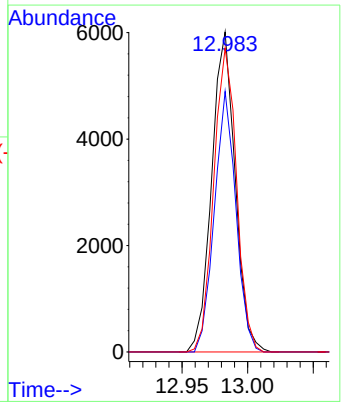




#92
1,2-Dibromo-3-Chloropropane
Concen: 19.46 ug/l
RT: 12.983 min Scan# 2022
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

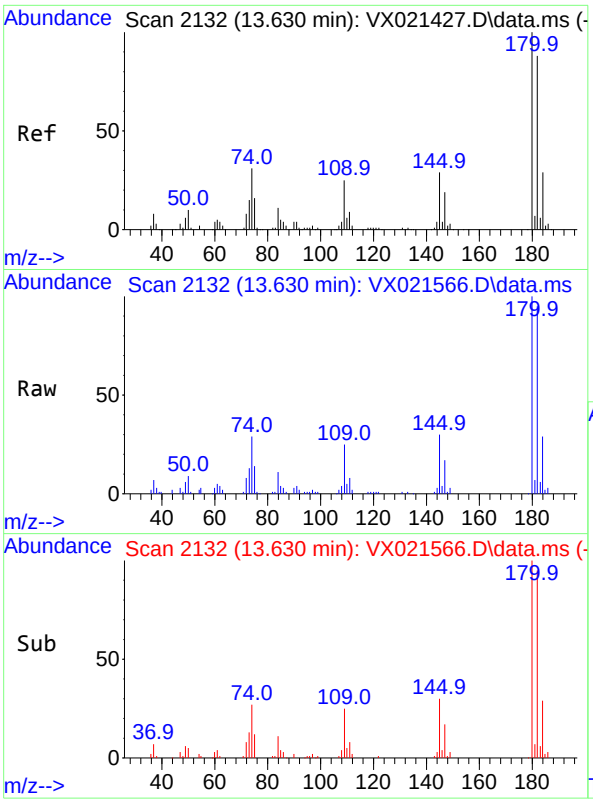
Tgt Ion: 75 Resp: 7477

Ion	Ratio	Lower	Upper
75	100		
155	74.5	45.3	135.9
157	92.2	57.7	173.1



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

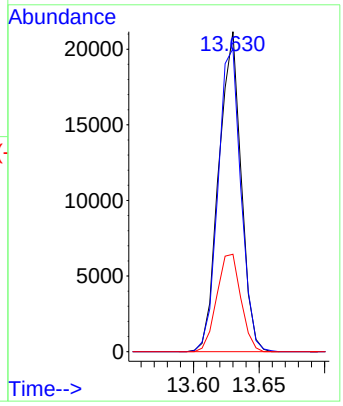
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

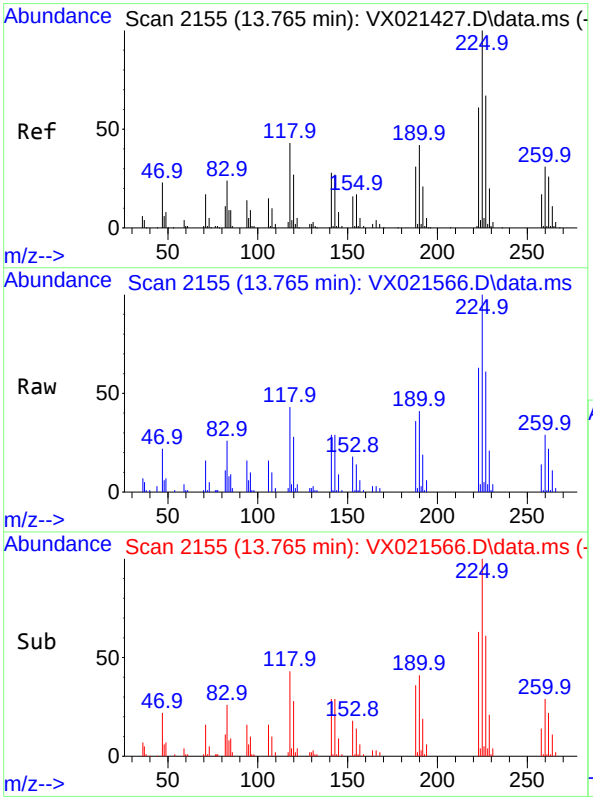


#93
1,2,4-Trichlorobenzene
Concen: 19.01 ug/l
RT: 13.630 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:180 Resp: 24944

Ion	Ratio	Lower	Upper
180	100		
182	97.3	47.7	143.1
145	33.0	15.0	45.0

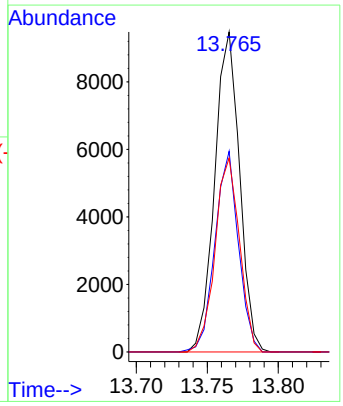




#94
Hexachlorobutadiene
Concen: 19.46 ug/l
RT: 13.765 min Scan# 2155
Delta R.T. 0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

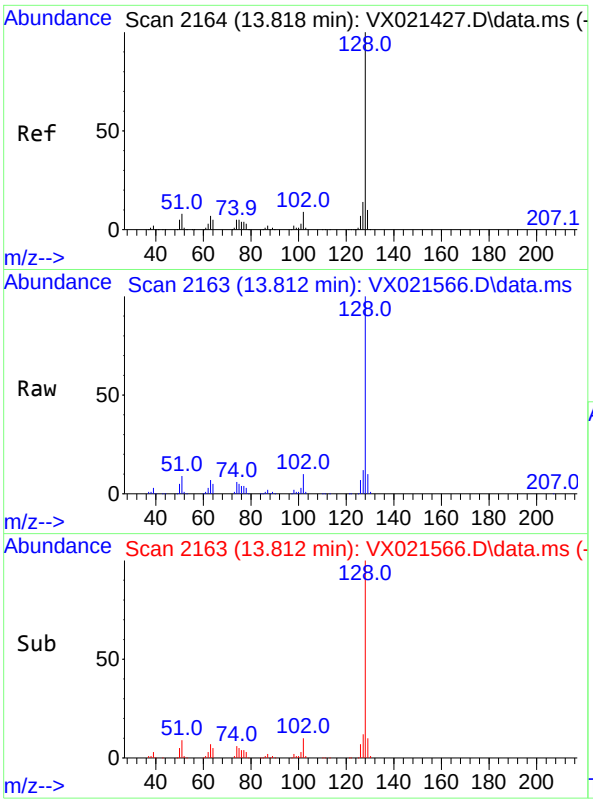
Tgt Ion:225 Resp: 11525

Ion	Ratio	Lower	Upper
225	100		
223	59.2	31.1	93.2
227	59.6	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0329WBS01

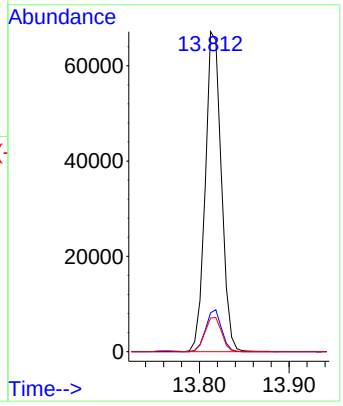
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:41:34 AM

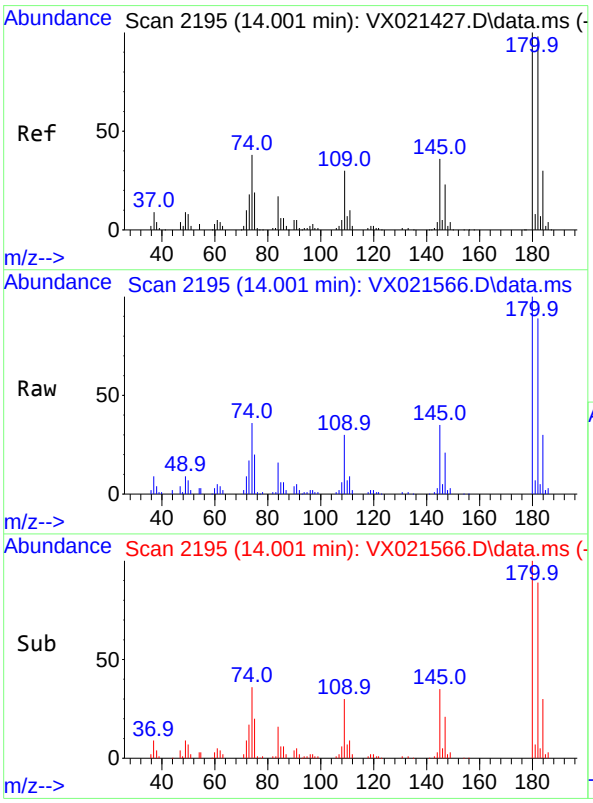


#95
Naphthalene
Concen: 19.49 ug/l
RT: 13.812 min Scan# 2163
Delta R.T. -0.006 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:128 Resp: 83384

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.1	8.8	13.2

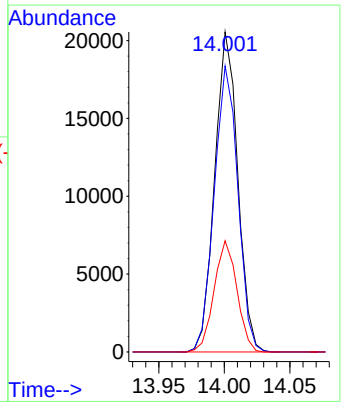




#96
1,2,3-Trichlorobenzene
Concen: 19.12 ug/l
RT: 14.001 min Scan# 2195
Delta R.T. -0.000 min
Lab File: VX021566.D
Acq: 29 Mar 2021 10:59

Tgt Ion:180 Resp: 25072

Ion	Ratio	Lower	Upper
180	100		
182	91.7	47.6	142.9
145	34.6	16.1	48.3



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

Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-1MS	SDG No.:	M1785
Lab Sample ID:	M1785-11MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021589.D	10		03/29/21 19:57	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	450		2.30	10.0	ug/L
74-87-3	Chloromethane	460		2.00	10.0	ug/L
75-01-4	Vinyl Chloride	480		1.90	10.0	ug/L
74-83-9	Bromomethane	520		8.70	50.0	ug/L
75-00-3	Chloroethane	470		3.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	480		2.50	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	470		2.10	10.0	ug/L
75-35-4	1,1-Dichloroethene	460		2.60	10.0	ug/L
67-64-1	Acetone	2400		16.1	50.0	ug/L
75-15-0	Carbon Disulfide	410		2.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	480		2.20	10.0	ug/L
79-20-9	Methyl Acetate	530		4.70	10.0	ug/L
75-09-2	Methylene Chloride	460		1.80	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	460		1.90	10.0	ug/L
75-34-3	1,1-Dichloroethane	480		2.10	10.0	ug/L
110-82-7	Cyclohexane	460		13.0	50.0	ug/L
78-93-3	2-Butanone	2500		9.00	50.0	ug/L
56-23-5	Carbon Tetrachloride	500		2.70	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	470		2.20	10.0	ug/L
74-97-5	Bromochloromethane	490		2.60	10.0	ug/L
67-66-3	Chloroform	490		2.70	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	480		2.00	10.0	ug/L
108-87-2	Methylcyclohexane	460		1.40	10.0	ug/L
71-43-2	Benzene	480		1.80	10.0	ug/L
107-06-2	1,2-Dichloroethane	490		2.50	10.0	ug/L
79-01-6	Trichloroethene	480		1.70	10.0	ug/L
78-87-5	1,2-Dichloropropane	490		1.70	10.0	ug/L
75-27-4	Bromodichloromethane	500		2.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	2600		8.70	50.0	ug/L
108-88-3	Toluene	500		2.20	10.0	ug/L
10061-02-6	t-1,3-Dichloropropene	490		1.80	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	480		1.70	10.0	ug/L

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-1MS	SDG No.:	M1785
Lab Sample ID:	M1785-11MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021589.D	10		03/29/21 19:57	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	500		2.40	10.0	ug/L
591-78-6	2-Hexanone	2700		9.20	50.0	ug/L
124-48-1	Dibromochloromethane	520		1.80	10.0	ug/L
106-93-4	1,2-Dibromoethane	500		1.60	10.0	ug/L
127-18-4	Tetrachloroethene	500		1.70	10.0	ug/L
108-90-7	Chlorobenzene	490		1.70	10.0	ug/L
100-41-4	Ethyl Benzene	500		1.80	10.0	ug/L
1330-20-7	Total Xylenes	1500		5.10	30.0	ug/L
100-42-5	Styrene	500		1.60	10.0	ug/L
75-25-2	Bromoform	500		1.90	10.0	ug/L
98-82-8	Isopropylbenzene	730		2.30	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	510		2.90	10.0	ug/L
103-65-1	n-propylbenzene	880		2.40	10.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	510		2.50	10.0	ug/L
98-06-6	tert-Butylbenzene	540		2.60	10.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	1100		2.00	10.0	ug/L
135-98-8	sec-Butylbenzene	610		2.30	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	500		1.90	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	490		2.00	10.0	ug/L
104-51-8	n-Butylbenzene	550		1.90	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	510		1.90	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	490		4.70	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	510		3.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	480		3.50	10.0	ug/L
123-91-1	1,4-Dioxane	10100		69.8	1000	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.9		78 - 117	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	53.1		92 - 112	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.4		83 - 123	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	80900	5.629			
540-36-3	1,4-Difluorobenzene	132000	6.829			

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

Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-1MS	SDG No.:	M1785
Lab Sample ID:	M1785-11MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021589.D	10		03/29/21 19:57	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
3114-55-4	Chlorobenzene-d5	126000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	60900	12.059			

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_X\Data\VX032921\
Data File : VX021589.D
Acq On : 29 Mar 2021 19:57
Operator : JC/MD
Sample : M1785-11MS 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 30 03:32:18 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Instrument : MSVOA_X
ClientSampleId : MW-1MS

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.629	168	80858	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	132095	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	125590	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	60876	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.029	65	68504	50.92	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.84%				
35) Dibromofluoromethane	5.464	113	49400	52.65	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.30%				
50) Toluene-d8	8.694	98	177446	53.07	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.14%				
62) 4-Bromofluorobenzene	11.118	95	70685	54.37	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.74%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.181	85	40430	45.49	ug/l		100
3) Chloromethane	1.311	50	47201	46.20	ug/l		98
4) Vinyl Chloride	1.393	62	43397	47.74	ug/l		99
5) Bromomethane	1.623	94	18878	51.60	ug/l		99
6) Chloroethane	1.699	64	27175	47.14	ug/l		97
7) Trichlorofluoromethane	1.911	101	71686	48.49	ug/l		98
8) Diethyl Ether	2.170	74	24561	47.87	ug/l		79
9) 1,1,2-Trichlorotrifluo...	2.358	101	38821	46.64	ug/l		97
10) Methyl Iodide	2.487	142	32502	50.01	ug/l	#	86
11) Tert butyl alcohol	3.023	59	53490	240.50	ug/l		96
12) 1,1-Dichloroethene	2.352	96	37088	45.51	ug/l		87
13) Acrolein	2.276	56	17034	153.52	ug/l		97
14) Allyl chloride	2.705	41	75734	45.79	ug/l	#	89
15) Acrylonitrile	3.117	53	130888	247.62	ug/l		97
16) Acetone	2.423	43	123684	243.14	ug/l	#	87
17) Carbon Disulfide	2.546	76	93663	40.93	ug/l		100
18) Methyl Acetate	2.746	43	77295	52.60	ug/l		90
19) Methyl tert-butyl Ether	3.170	73	146288	48.07	ug/l		98
20) Methylene Chloride	2.834	84	45493	45.83	ug/l	#	83
21) trans-1,2-Dichloroethene	3.140	96	40770	45.55	ug/l		94
22) Diisopropyl ether	3.829	45	155845	48.50	ug/l		92
23) Vinyl Acetate	3.782	43	654282	240.71	ug/l	#	92
24) 1,1-Dichloroethane	3.670	63	82808	47.80	ug/l		97
25) 2-Butanone	4.635	43	189652	245.95	ug/l		90
26) 2,2-Dichloropropane	4.546	77	63170	42.09	ug/l		96
27) cis-1,2-Dichloroethene	4.558	96	49084	47.23	ug/l		93
28) Bromochloromethane	4.976	49	42725	49.26	ug/l		87
29) Tetrahydrofuran	5.088	42	122364	244.75	ug/l	#	85
30) Chloroform	5.176	83	89811	49.12	ug/l		100
31) Cyclohexane	5.547	56	67637	45.72	ug/l		93
32) 1,1,1-Trichloroethane	5.458	97	77936	48.10	ug/l		96
36) 1,1-Dichloropropene	5.770	75	62114	47.99	ug/l		95
37) Ethyl Acetate	4.794	43	71146	47.54	ug/l	#	92
38) Carbon Tetrachloride	5.752	117	69090	49.67	ug/l		94
39) Methylcyclohexane	7.441	83	65817	45.87	ug/l		95
40) Benzene	6.111	78	178102	48.46	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021589.D
Acq On : 29 Mar 2021 19:57
Operator : JC/MD
Sample : M1785-11MS 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 30 03:32:18 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.999	41	41358	47.65	ug/l		88
42) 1,2-Dichloroethane	6.158	62	78288	49.13	ug/l		93
43) Isopropyl Acetate	6.411	43	119166	49.04	ug/l	#	91
44) Trichloroethene	7.188	130	46472	47.91	ug/l		99
45) 1,2-Dichloropropane	7.488	63	48778	48.99	ug/l		98
46) Dibromomethane	7.635	93	35319	48.67	ug/l		93
47) Bromodichloromethane	7.876	83	73402	49.70	ug/l		98
48) Methyl methacrylate	7.747	41	64621	49.85	ug/l	#	82
49) 1,4-Dioxane	7.712	88	23482	1011.84	ug/l	#	89
51) 4-Methyl-2-Pentanone	8.618	43	389208	260.40	ug/l		88
52) Toluene	8.765	92	112689	49.64	ug/l		98
53) t-1,3-Dichloropropene	9.023	75	73220	49.10	ug/l		100
54) cis-1,3-Dichloropropene	8.412	75	76892	48.45	ug/l	#	85
55) 1,1,2-Trichloroethane	9.194	97	48371	50.48	ug/l		96
56) Ethyl methacrylate	9.159	69	73224	45.44	ug/l	#	75
57) 1,3-Dichloropropane	9.353	76	82098	50.07	ug/l		99
59) 2-Hexanone	9.471	43	298619	266.07	ug/l		84
60) Dibromochloromethane	9.565	129	56155	52.33	ug/l		99
61) 1,2-Dibromoethane	9.653	107	51635	50.17	ug/l		98
64) Tetrachloroethene	9.318	164	42221	50.19	ug/l		95
65) Chlorobenzene	10.118	112	122567	48.58	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.206	131	48792	50.47	ug/l		98
67) Ethyl Benzene	10.235	91	227904	49.56	ug/l		100
68) m/p-Xylenes	10.341	106	164754	100.56	ug/l		92
69) o-Xylene	10.683	106	79627	50.18	ug/l		94
70) Styrene	10.694	104	135716	49.73	ug/l		94
71) Bromoform	10.841	173	39524	50.31	ug/l	#	96
73) Isopropylbenzene	11.000	105	312344	73.03	ug/l		100
74) N-amyl acetate	10.883	43	105675	51.06	ug/l	#	89
75) 1,1,2,2-Tetrachloroethane	11.253	83	77128	51.03	ug/l		100
76) 1,2,3-Trichloropropane	11.277	75	74481m	52.56	ug/l		
77) Bromobenzene	11.236	156	53921	50.85	ug/l		96
78) n-propylbenzene	11.341	91	444975	88.09	ug/l		98
79) 2-Chlorotoluene	11.406	91	154661	50.47	ug/l		98
80) 1,3,5-Trimethylbenzene	11.489	105	187231	51.24	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.059	75	23249	49.97	ug/l	#	83
82) 4-Chlorotoluene	11.494	91	181113	49.78	ug/l		97
83) tert-Butylbenzene	11.753	119	190630	53.58	ug/l		93
84) 1,2,4-Trimethylbenzene	11.789	105	411854	111.80	ug/l		99
85) sec-Butylbenzene	11.930	105	249721	60.85	ug/l		96
86) p-Isopropyltoluene	12.047	119	193995	51.93	ug/l		96
87) 1,3-Dichlorobenzene	12.006	146	95276	49.90	ug/l		98
88) 1,4-Dichlorobenzene	12.083	146	96129	48.67	ug/l		98
89) n-Butylbenzene	12.371	91	189224	55.29	ug/l		96
90) Hexachloroethane	12.577	117	36484	54.11	ug/l		88
91) 1,2-Dichlorobenzene	12.377	146	94819	51.08	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.983	75	18624	48.94	ug/l		81
93) 1,2,4-Trichlorobenzene	13.630	180	62266	51.17	ug/l		96
94) Hexachlorobutadiene	13.765	225	24193	44.05	ug/l		97
95) Naphthalene	13.818	128	211826	53.38	ug/l		99
96) 1,2,3-Trichlorobenzene	14.001	180	58650	48.22	ug/l		97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021589.D
Acq On : 29 Mar 2021 19:57
Operator : JC/MD
Sample : M1785-11MS 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 30 03:32:18 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

Manual Integrations APPROVED
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3/31/2021 9:58:51 AM

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

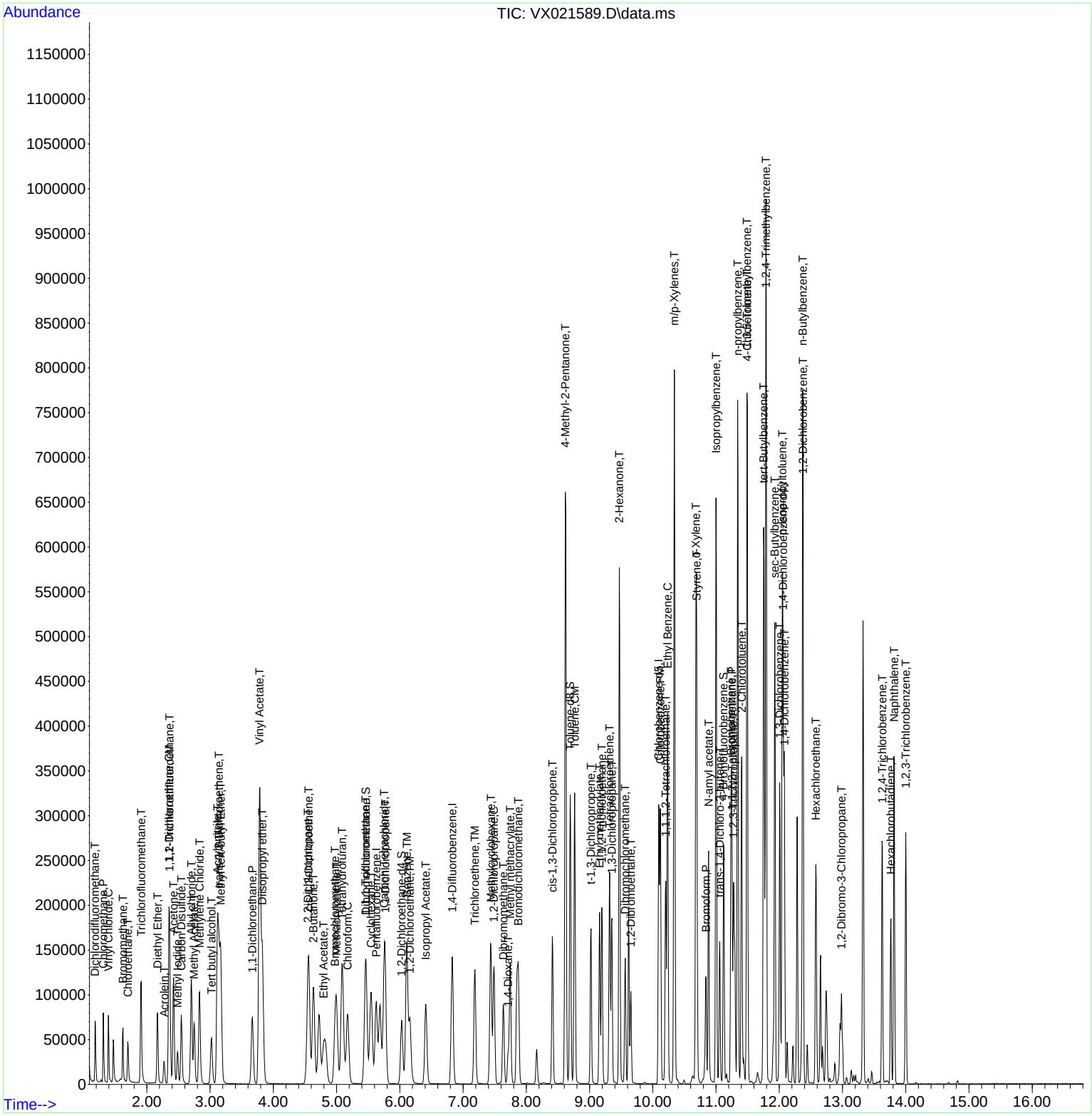
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021589.D
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Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

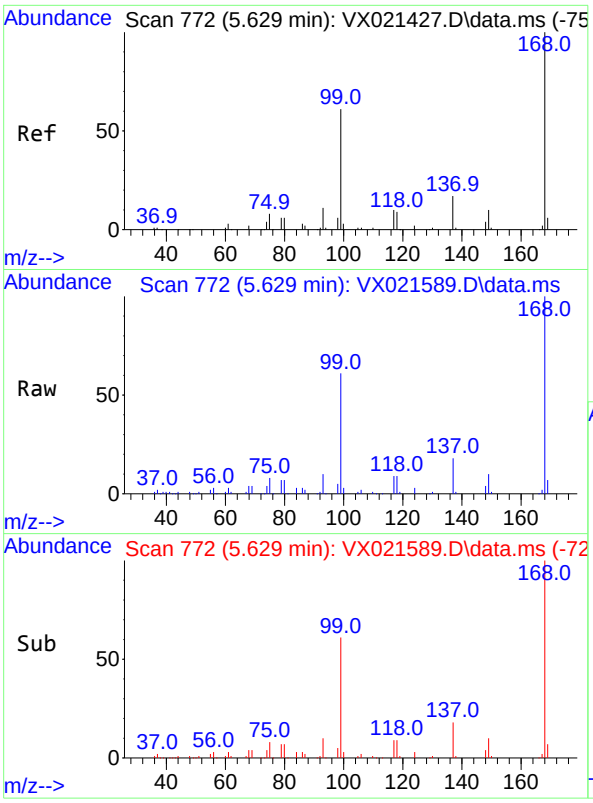
Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

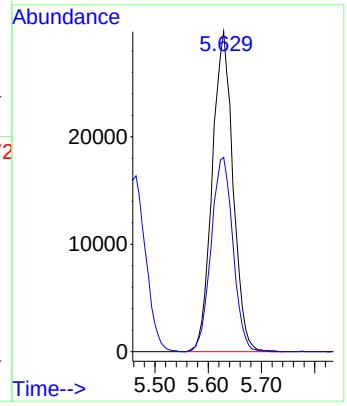
Manual Integrations APPROVED
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3/31/2021 9:58:51 AM

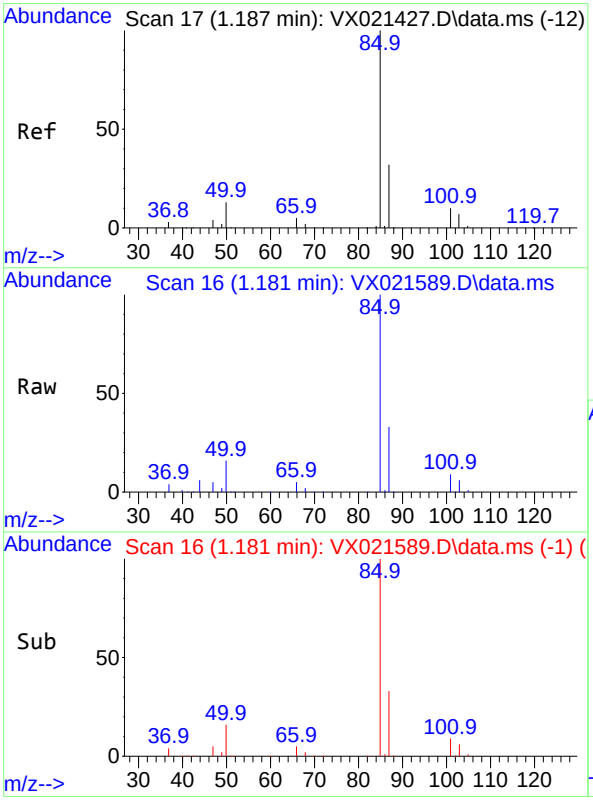


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 772
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:168 Resp: 80858

Ion	Ratio	Lower	Upper
168	100		
99	60.7	45.8	68.6

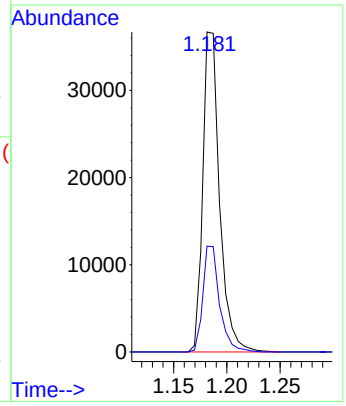




#2
Dichlorodifluoromethane
Concen: 45.49 ug/l
RT: 1.181 min Scan# 16
Delta R.T. -0.006 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

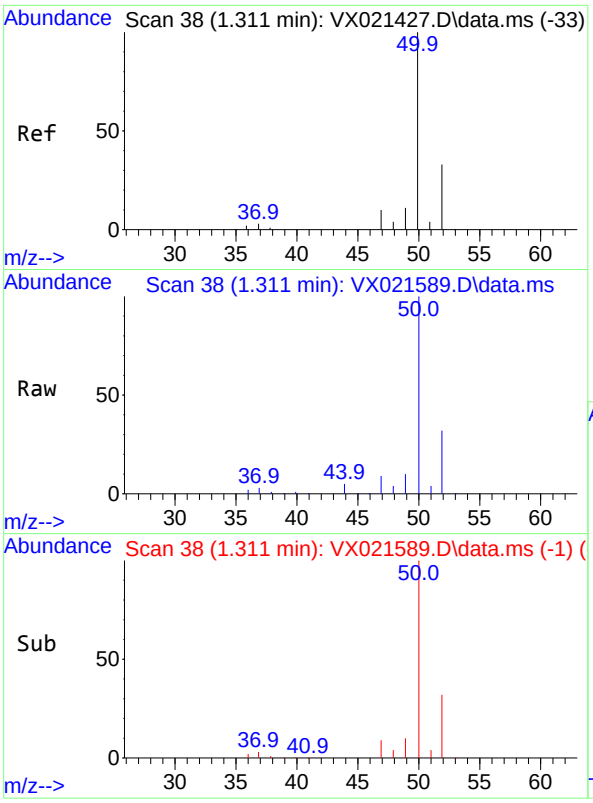
Tgt Ion: 85 Resp: 40430

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

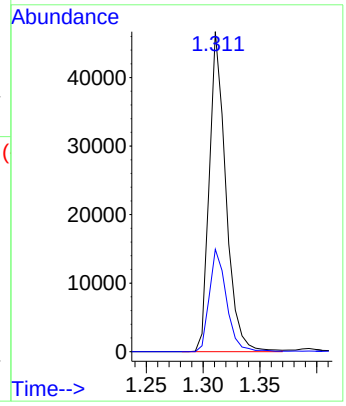
Manual Integrations APPROVED
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3/31/2021 9:58:51 AM

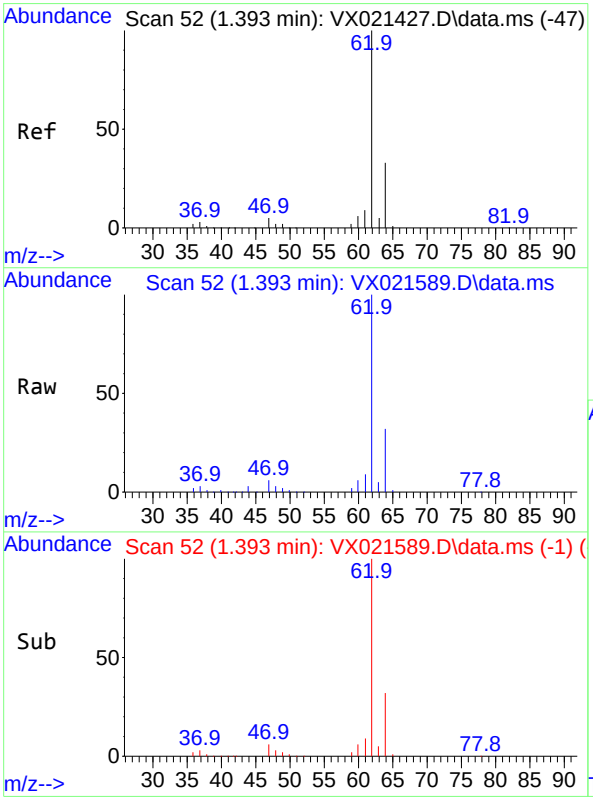


#3
Chloromethane
Concen: 46.20 ug/l
RT: 1.311 min Scan# 38
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 50 Resp: 47201

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.4	39.6

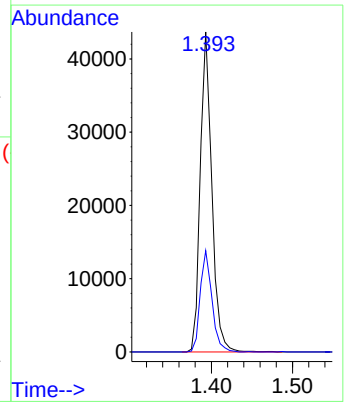




#4
Vinyl Chloride
Concen: 47.74 ug/l
RT: 1.393 min Scan# 52
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

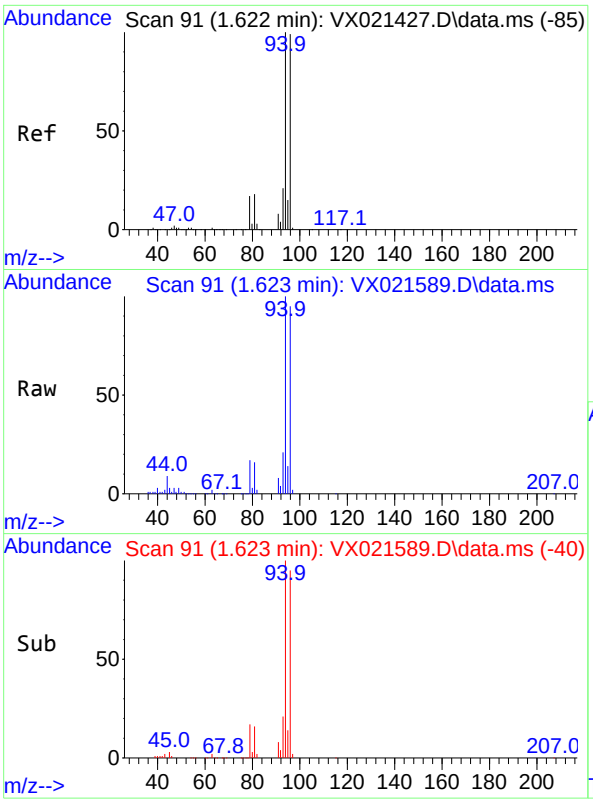
Tgt Ion: 62 Resp: 43397

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

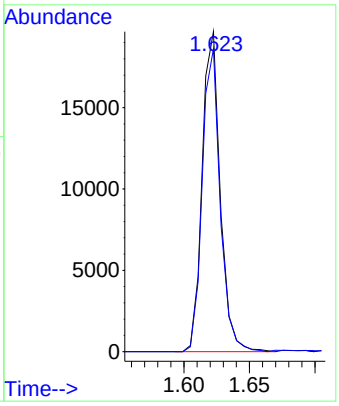
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

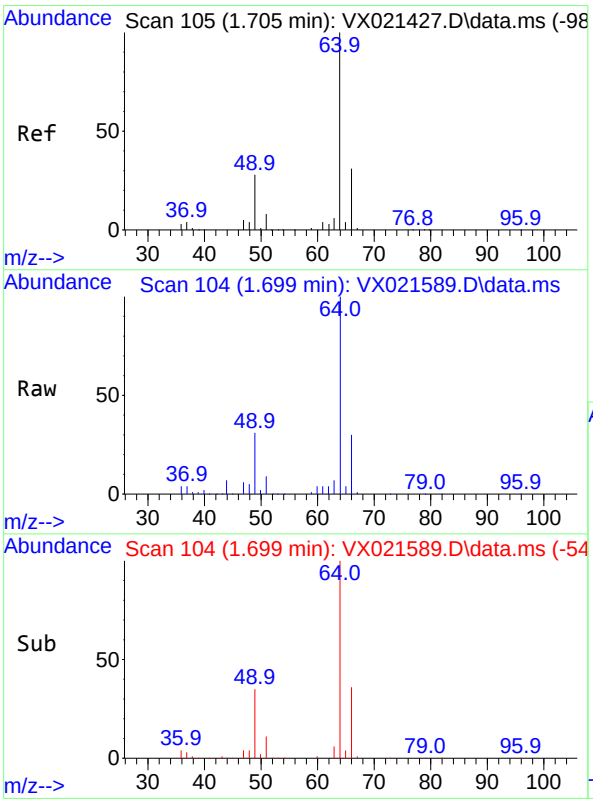


#5
Bromomethane
Concen: 51.60 ug/l
RT: 1.623 min Scan# 91
Delta R.T. 0.001 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 94 Resp: 18878

Ion	Ratio	Lower	Upper
94	100		
96	94.7	76.4	114.6

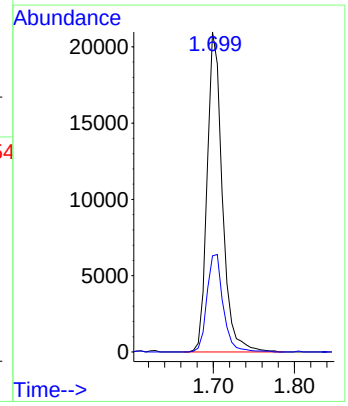




#6
Chloroethane
Concen: 47.14 ug/l
RT: 1.699 min Scan# 104
Delta R.T. -0.006 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

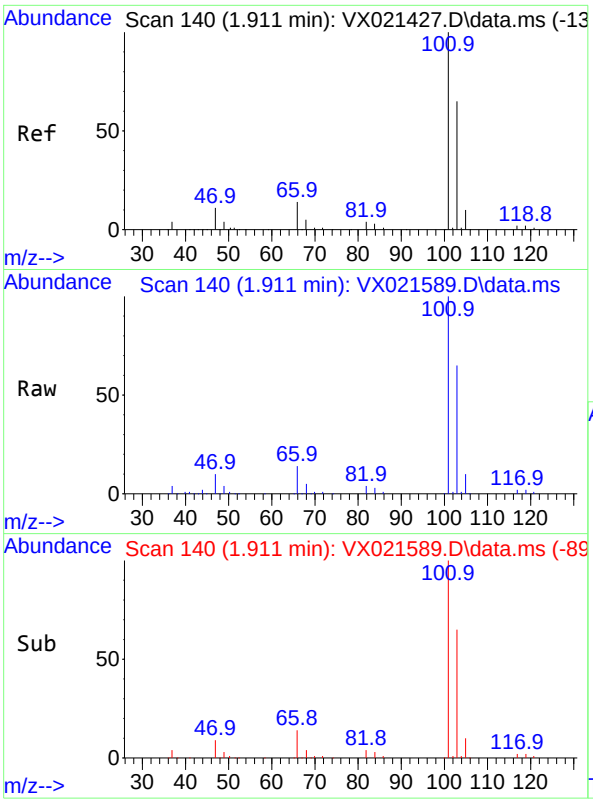
Tgt Ion: 64 Resp: 27175

Ion	Ratio	Lower	Upper
64	100		
66	30.1	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

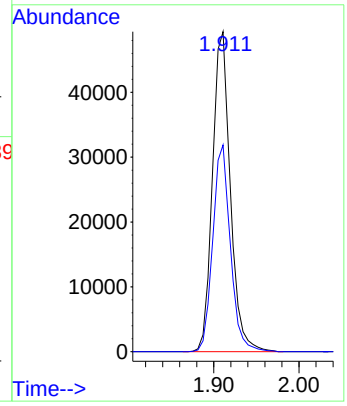
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

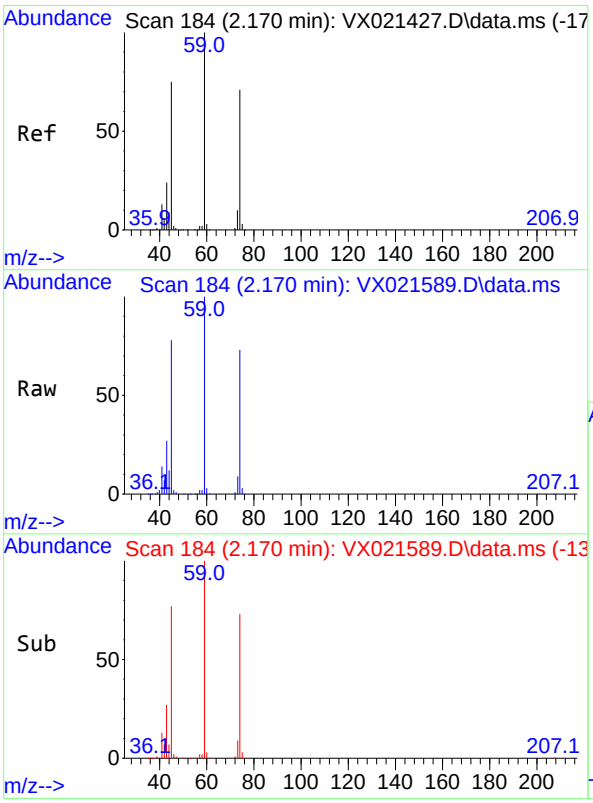


#7
Trichlorofluoromethane
Concen: 48.49 ug/l
RT: 1.911 min Scan# 140
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:101 Resp: 71686

Ion	Ratio	Lower	Upper
101	100		
103	64.6	53.2	79.8

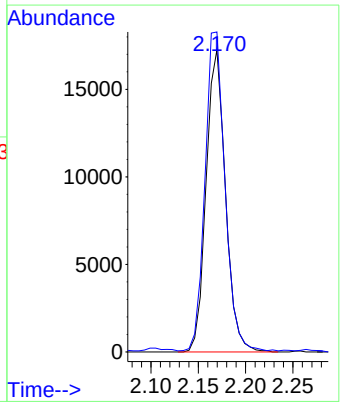




#8
Diethyl Ether
Concen: 47.87 ug/l
RT: 2.170 min Scan# 184
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

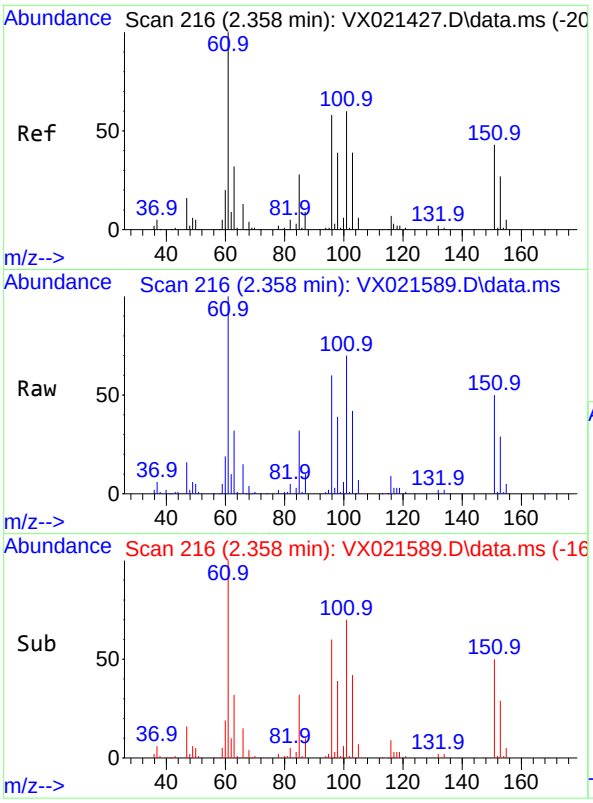
Tgt Ion: 74 Resp: 24561

Ion	Ratio	Lower	Upper
74	100		
45	108.5	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

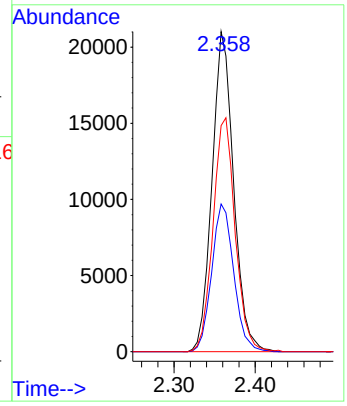
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

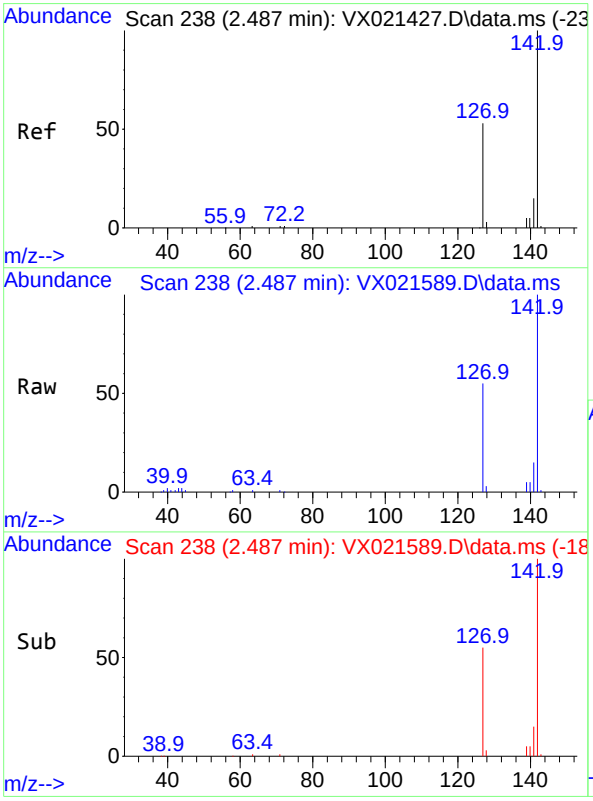


#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.64 ug/l
RT: 2.358 min Scan# 216
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:101 Resp: 38821

Ion	Ratio	Lower	Upper
101	100		
85	47.2	34.9	52.3
151	75.1	61.4	92.2

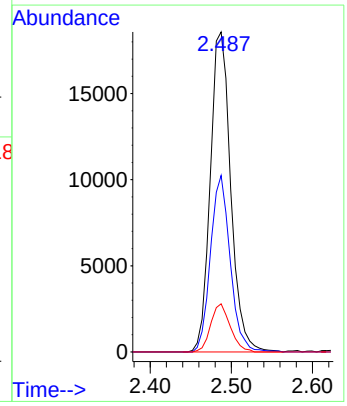




#10
Methyl Iodide
Concen: 50.01 ug/l
RT: 2.487 min Scan# 238
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

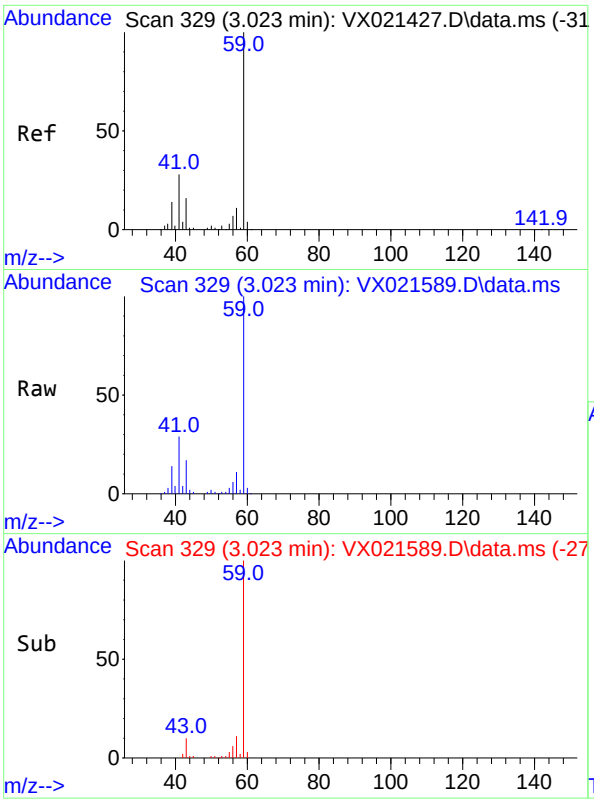
Tgt Ion:142 Resp: 32502

Ion	Ratio	Lower	Upper
142	100		
127	53.1	33.3	49.9#
141	14.4	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

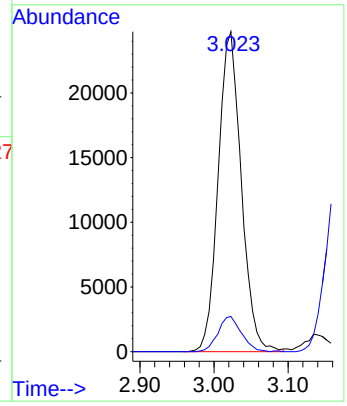
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

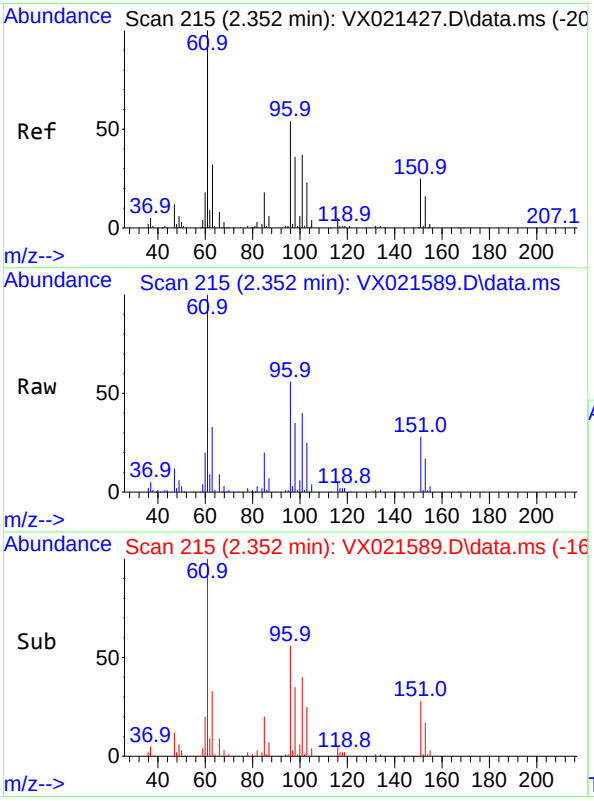


#11
Tert butyl alcohol
Concen: 240.50 ug/l
RT: 3.023 min Scan# 329
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 59 Resp: 53490

Ion	Ratio	Lower	Upper
59	100		
57	11.2	7.8	11.8

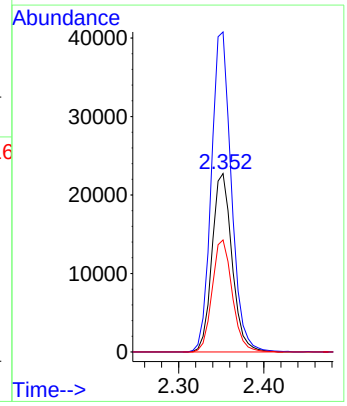




#12
1,1-Dichloroethene
Concen: 45.51 ug/l
RT: 2.352 min Scan# 215
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

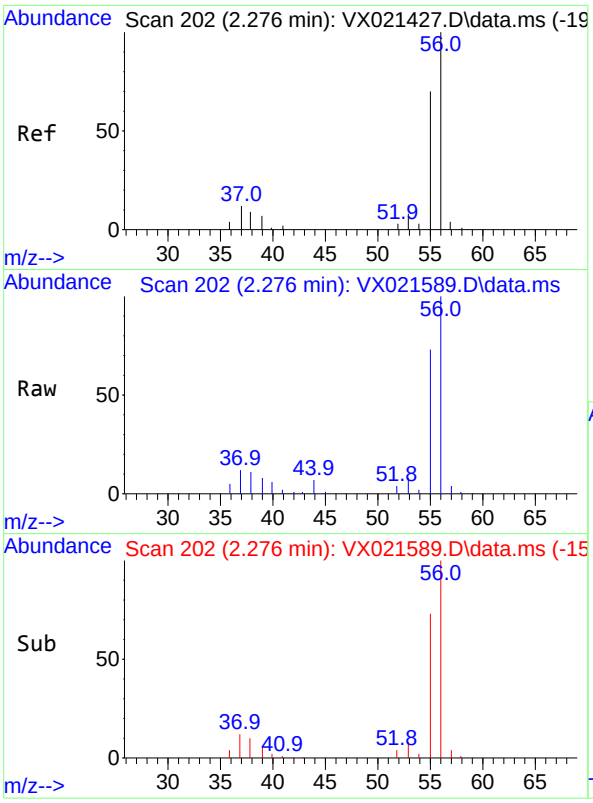
Tgt Ion: 96 Resp: 37088

Ion	Ratio	Lower	Upper
96	100		
61	179.3	124.6	187.0
98	62.8	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

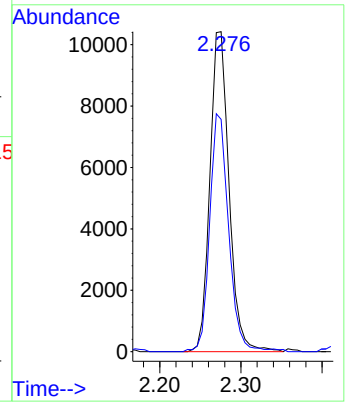
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

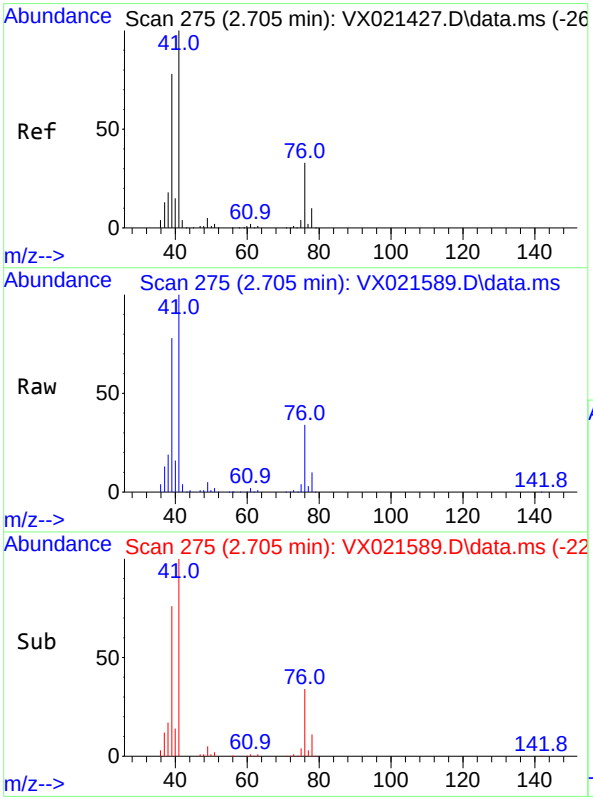


#13
Acrolein
Concen: 153.52 ug/l
RT: 2.276 min Scan# 202
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 56 Resp: 17034

Ion	Ratio	Lower	Upper
56	100		
55	73.2	56.4	84.6

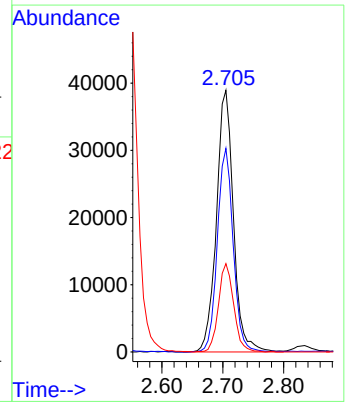




#14
Allyl chloride
Concen: 45.79 ug/l
RT: 2.705 min Scan# 275
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

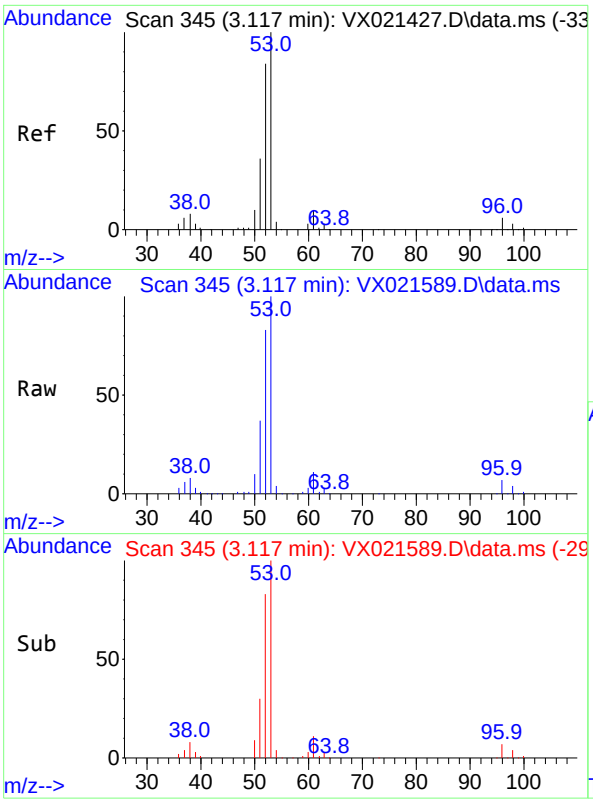
Tgt Ion: 41 Resp: 75734

Ion	Ratio	Lower	Upper
41	100		
39	72.4	51.6	77.4
76	30.2	30.5	45.7#



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

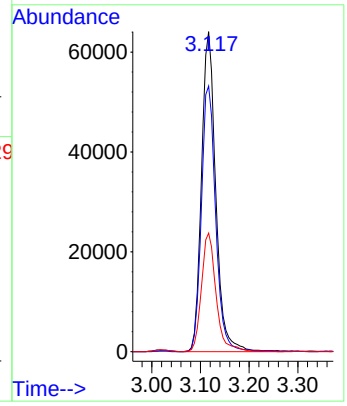
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

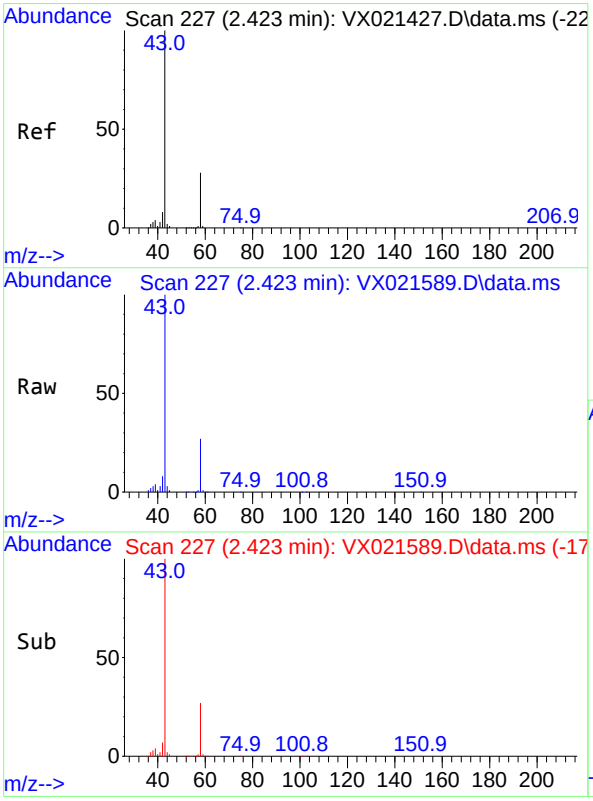


#15
Acrylonitrile
Concen: 247.62 ug/l
RT: 3.117 min Scan# 345
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 53 Resp: 130888

Ion	Ratio	Lower	Upper
53	100		
52	83.0	65.3	97.9
51	38.1	28.2	42.2

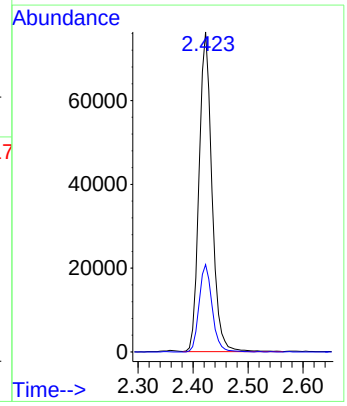




#16
Acetone
Concen: 243.14 ug/l
RT: 2.423 min Scan# 227
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

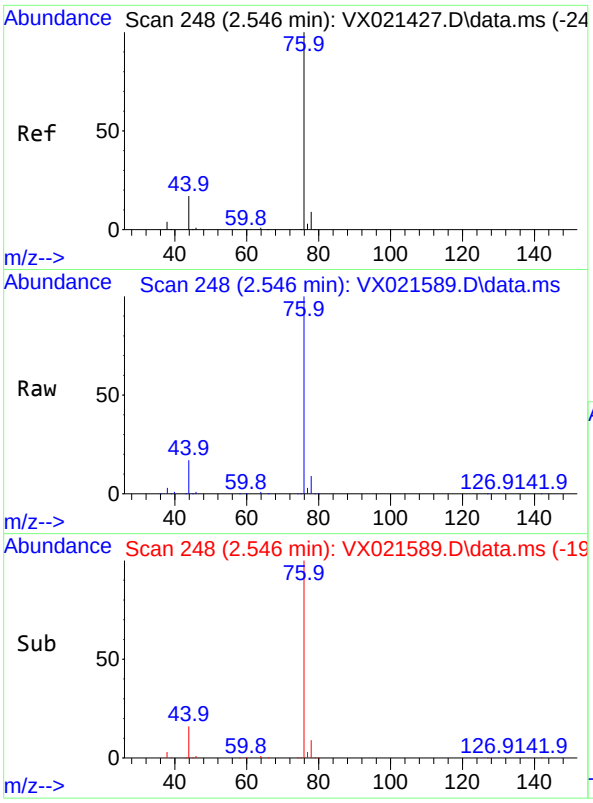
Tgt Ion: 43 Resp: 123684

Ion	Ratio	Lower	Upper
43	100		
58	27.3	27.8	41.8#



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

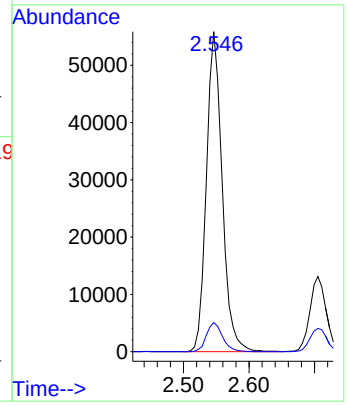
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

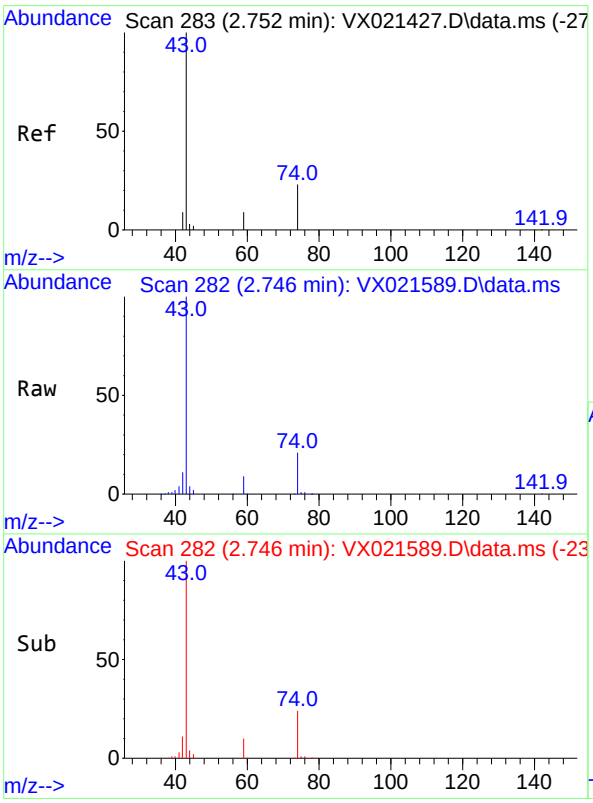


#17
Carbon Disulfide
Concen: 40.93 ug/l
RT: 2.546 min Scan# 248
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 76 Resp: 93663

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

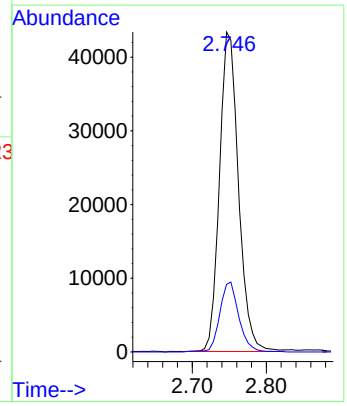




#18
Methyl Acetate
Concen: 52.60 ug/l
RT: 2.746 min Scan# 282
Delta R.T. -0.006 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

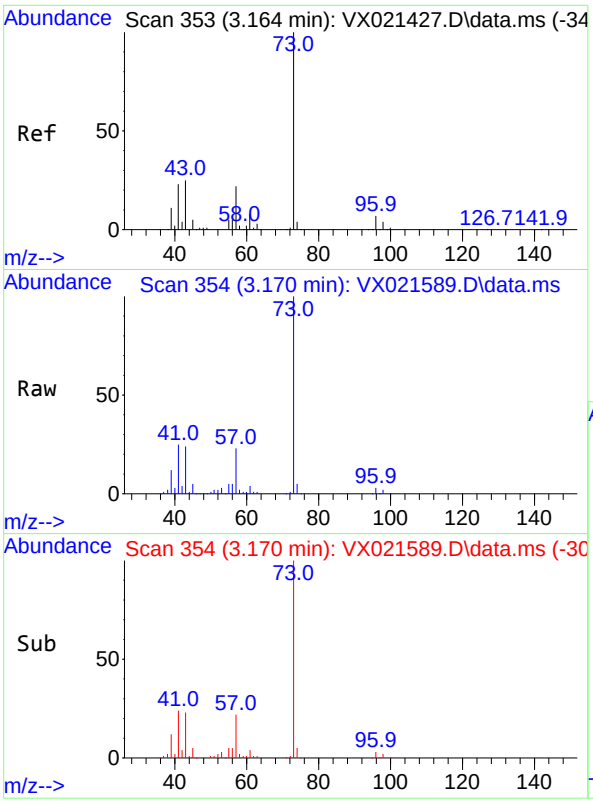
Tgt Ion: 43 Resp: 77295

Ion	Ratio	Lower	Upper
43	100		
74	22.0	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

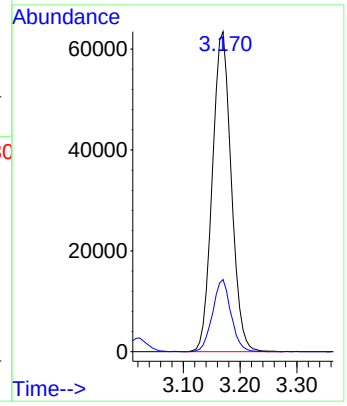
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

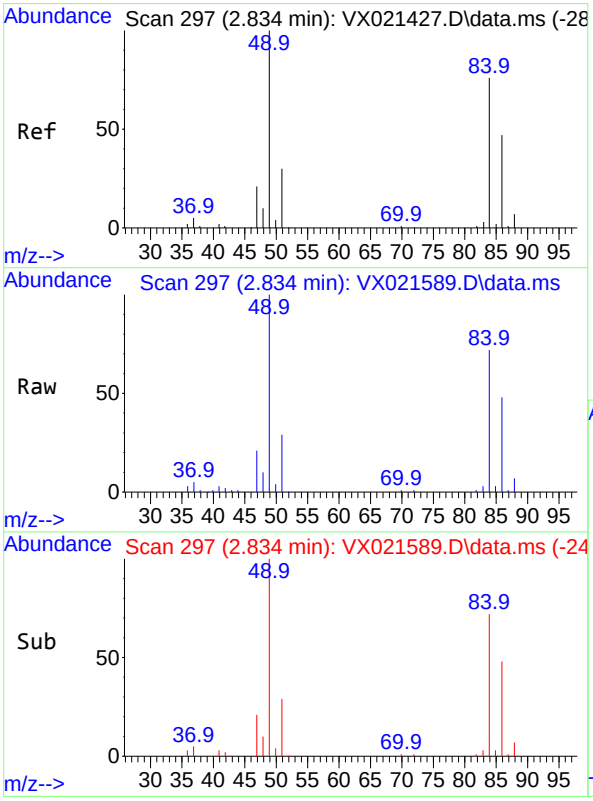


#19
Methyl tert-butyl Ether
Concen: 48.07 ug/l
RT: 3.170 min Scan# 354
Delta R.T. 0.006 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 73 Resp: 146288

Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.1	25.7

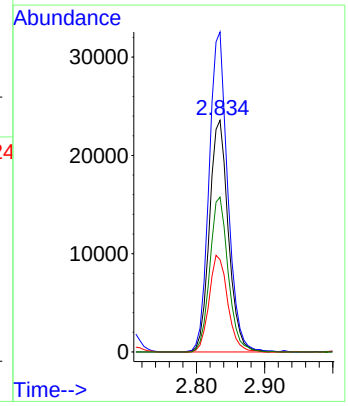




#20
Methylene Chloride
Concen: 45.83 ug/l
RT: 2.834 min Scan# 297
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

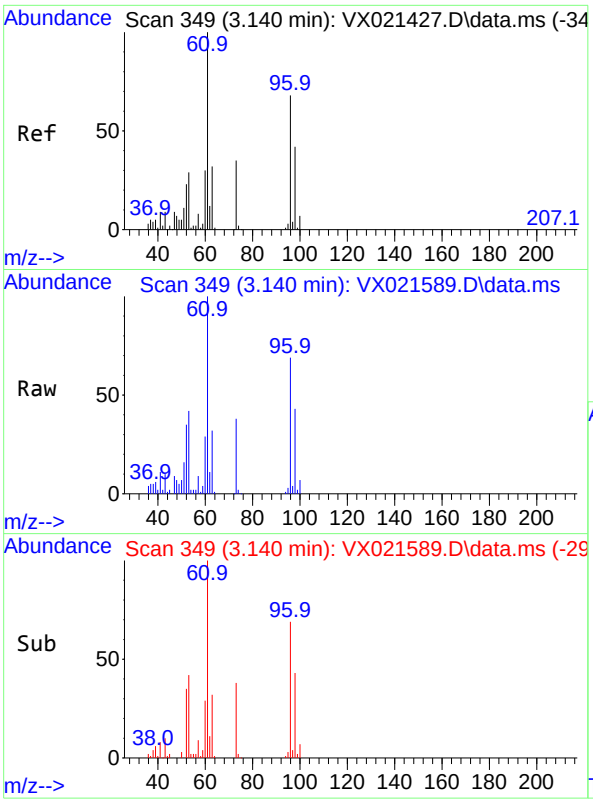
Tgt Ion: 84 Resp: 45493

Ion	Ratio	Lower	Upper
84	100		
49	138.2	88.6	132.8#
51	39.9	27.0	40.6
86	66.9	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

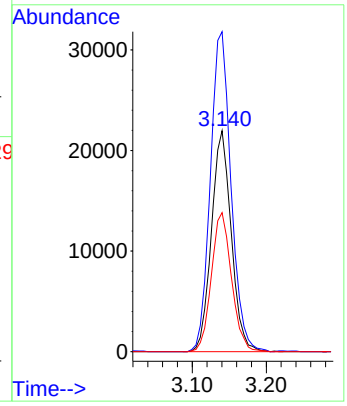
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

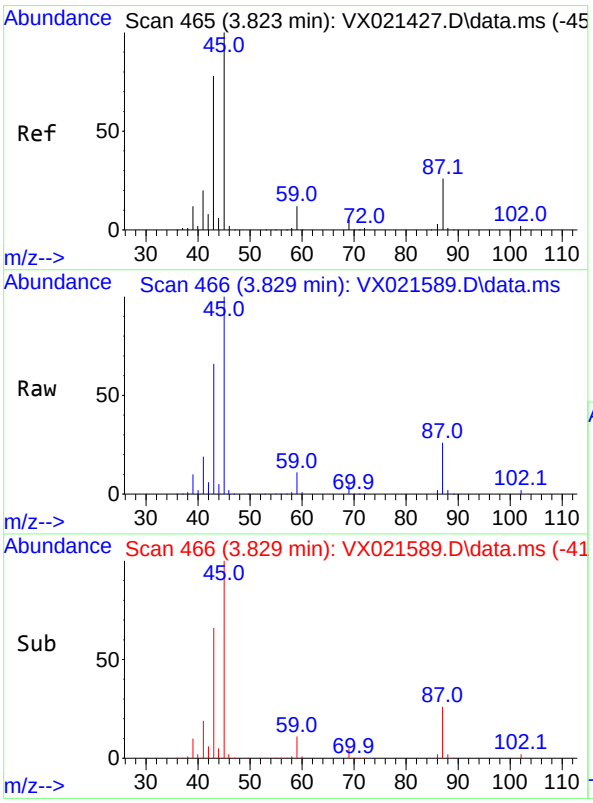


#21
trans-1,2-Dichloroethene
Concen: 45.55 ug/l
RT: 3.140 min Scan# 349
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 96 Resp: 40770

Ion	Ratio	Lower	Upper
96	100		
61	144.8	107.7	161.5
98	62.9	50.4	75.6

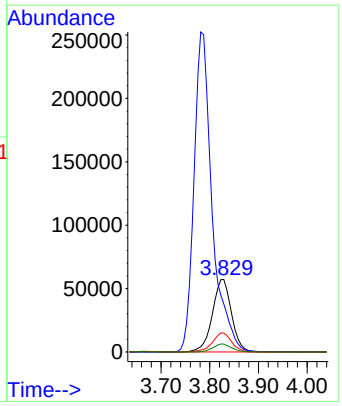




#22
Diisopropyl ether
Concen: 48.50 ug/l
RT: 3.829 min Scan# 466
Delta R.T. 0.006 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

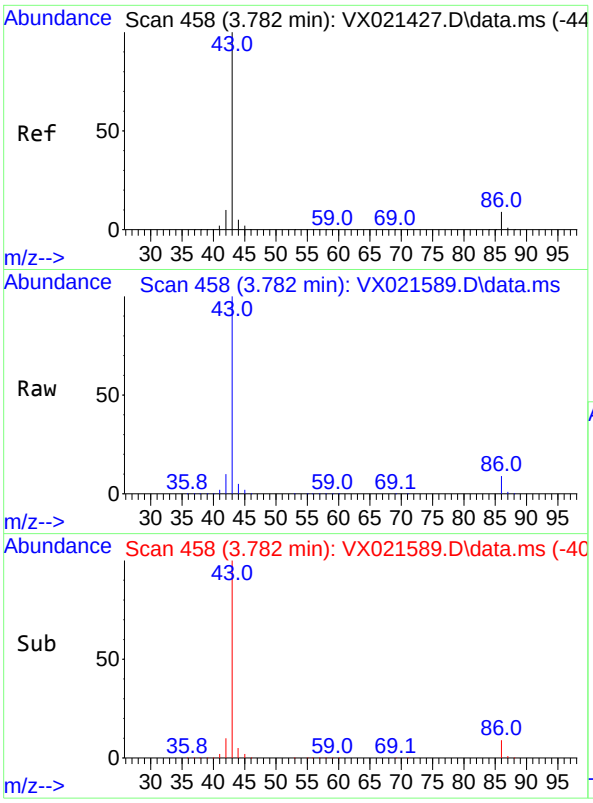
Tgt Ion: 45 Resp: 155845

Ion	Ratio	Lower	Upper
45	100		
43	65.9	58.0	87.0
87	26.1	25.4	38.0
59	10.9	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

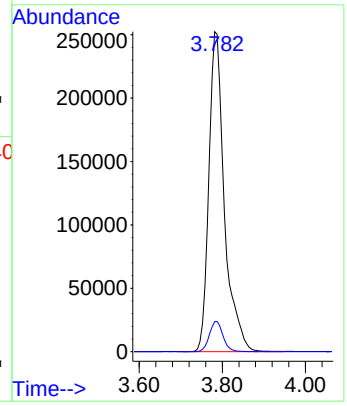
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

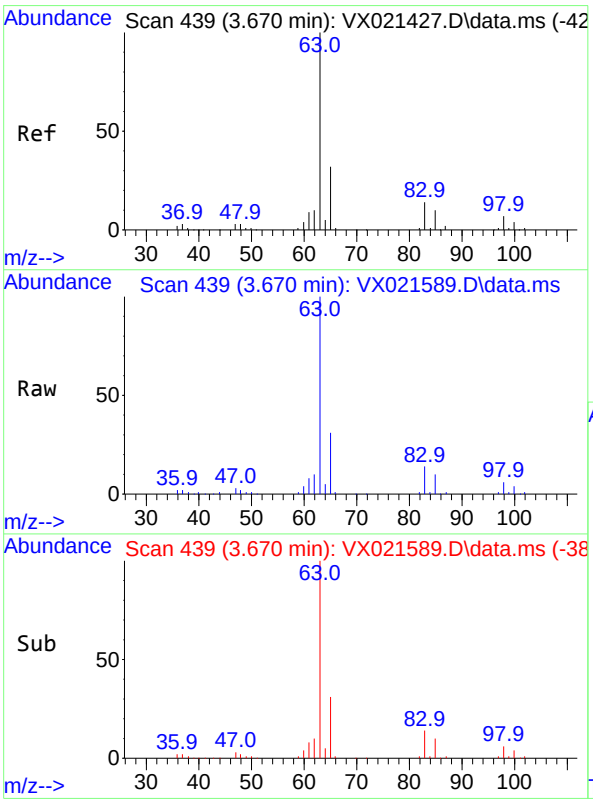


#23
Vinyl Acetate
Concen: 240.71 ug/l
RT: 3.782 min Scan# 458
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 43 Resp: 654282

Ion	Ratio	Lower	Upper
43	100		
86	9.4	9.9	14.9#

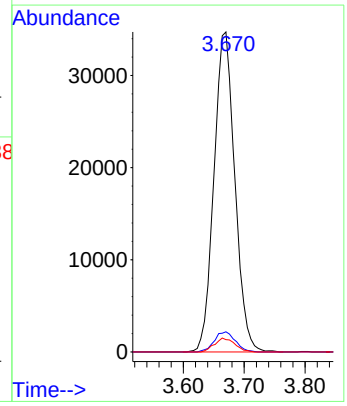




#24
1,1-Dichloroethane
Concen: 47.80 ug/l
RT: 3.670 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

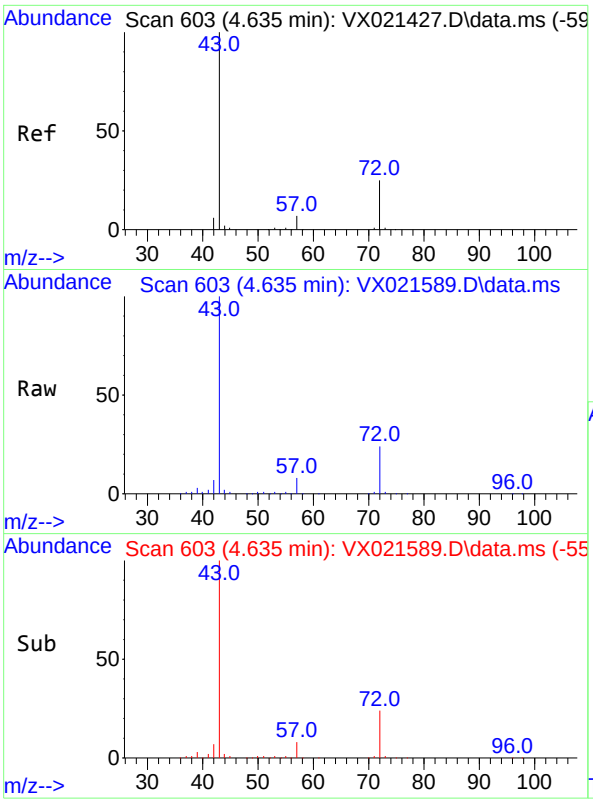
Tgt Ion: 63 Resp: 82808

Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.8	11.2
100	3.8	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

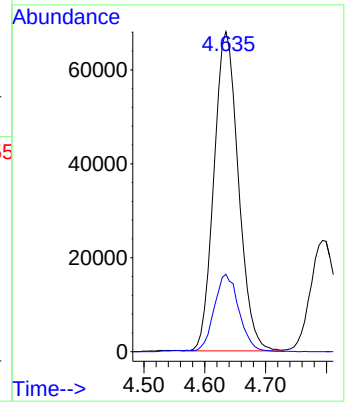
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

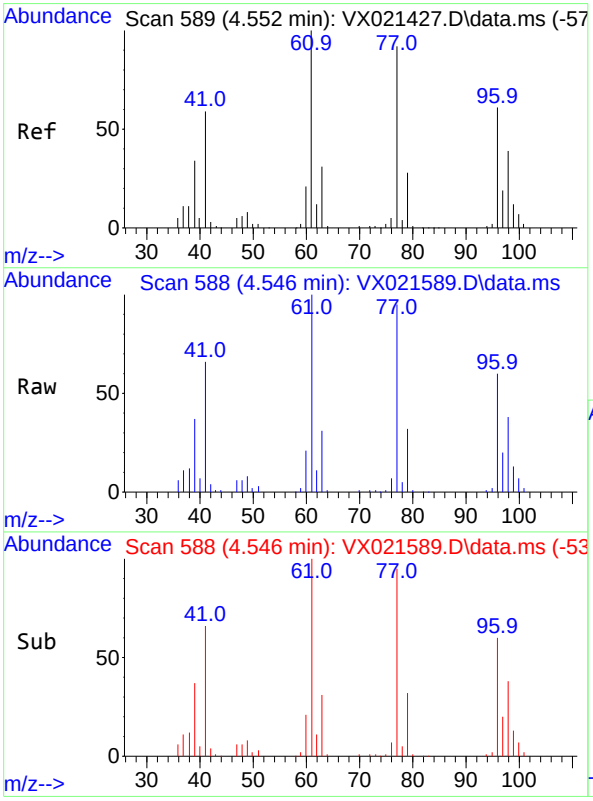


#25
2-Butanone
Concen: 245.95 ug/l
RT: 4.635 min Scan# 603
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 43 Resp: 189652

Ion	Ratio	Lower	Upper
43	100		
72	24.2	23.7	35.5

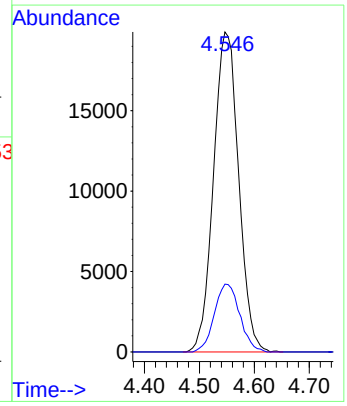




#26
2,2-Dichloropropane
Concen: 42.09 ug/l
RT: 4.546 min Scan# 588
Delta R.T. -0.006 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

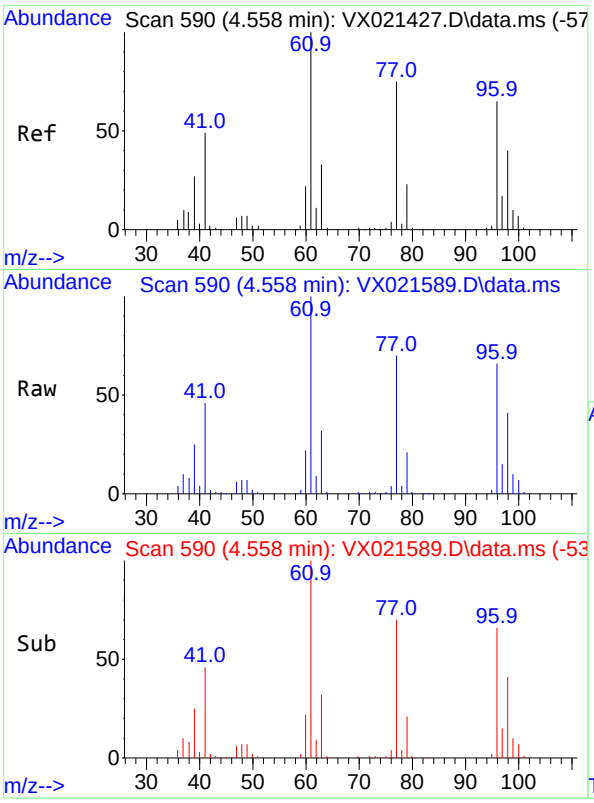
Tgt Ion: 77 Resp: 63170

Ion	Ratio	Lower	Upper
77	100		
97	21.4	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

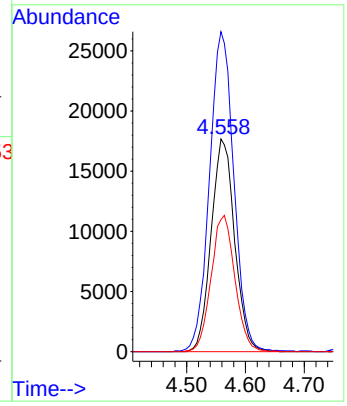
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

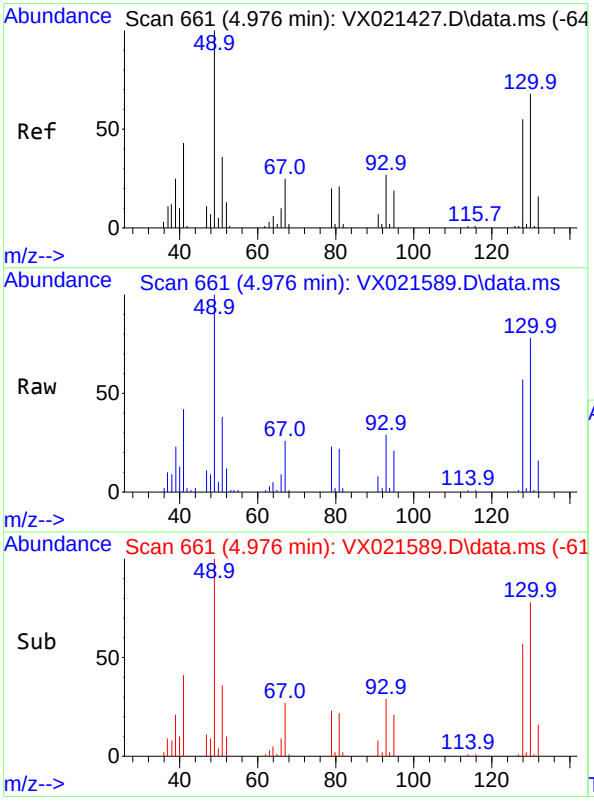


#27
cis-1,2-Dichloroethene
Concen: 47.23 ug/l
RT: 4.558 min Scan# 590
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 96 Resp: 49084

Ion	Ratio	Lower	Upper
96	100		
61	156.1	0.0	285.6
98	64.9	0.0	129.6

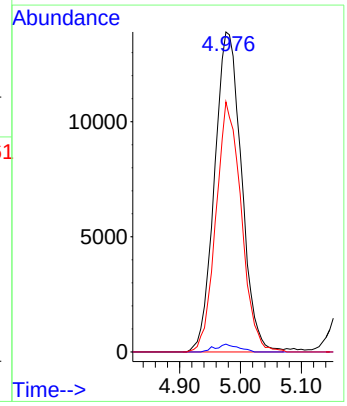




#28
Bromochloromethane
Concen: 49.26 ug/l
RT: 4.976 min Scan# 661
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

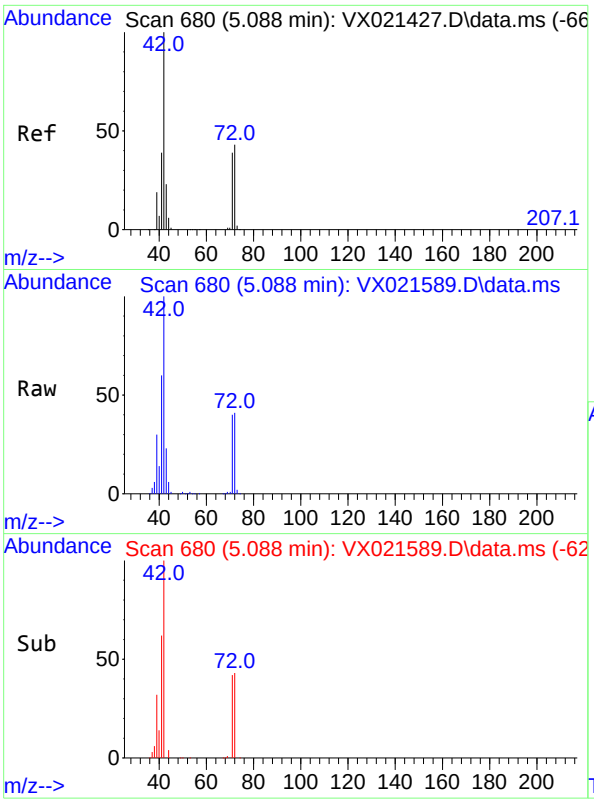
Tgt Ion: 49 Resp: 42725

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	73.5	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

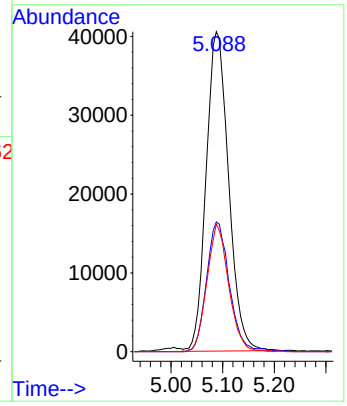
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

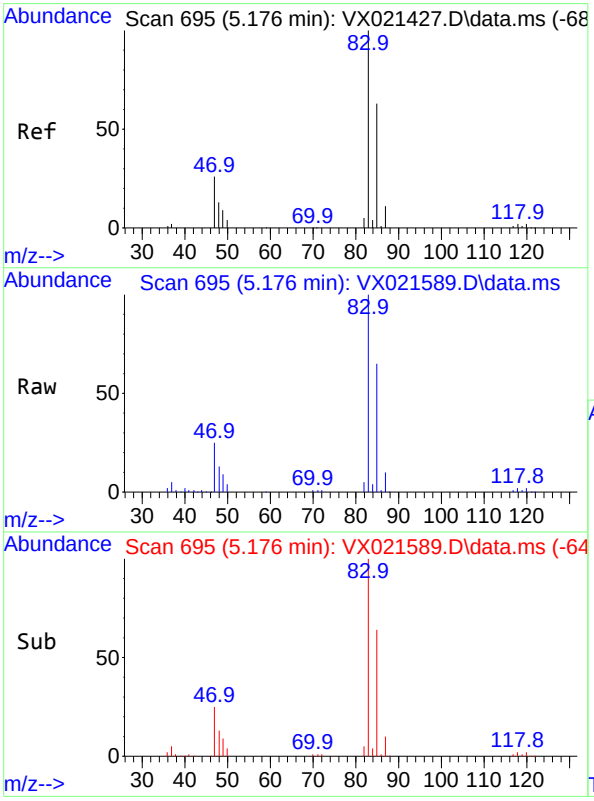


#29
Tetrahydrofuran
Concen: 244.75 ug/l
RT: 5.088 min Scan# 680
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 42 Resp: 122364

Ion	Ratio	Lower	Upper
42	100		
72	41.5	41.7	62.5#
71	38.6	38.4	57.6

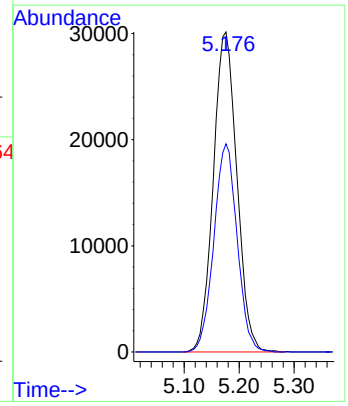




#30
Chloroform
Concen: 49.12 ug/l
RT: 5.176 min Scan# 695
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

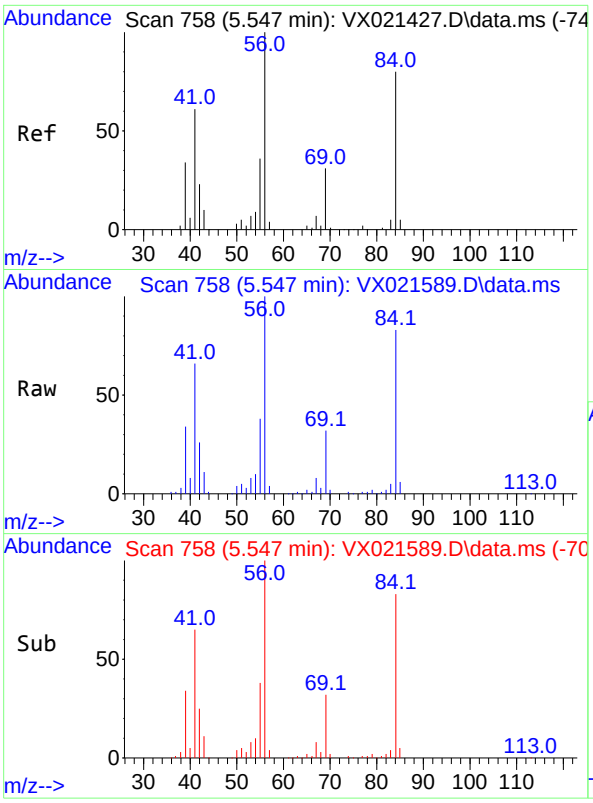
Tgt Ion: 83 Resp: 89811

Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

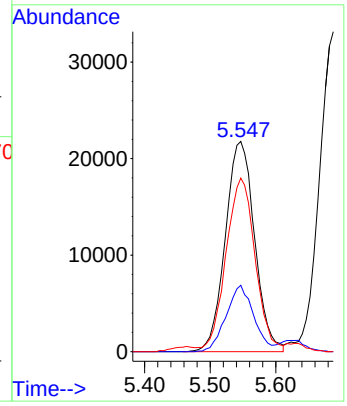
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

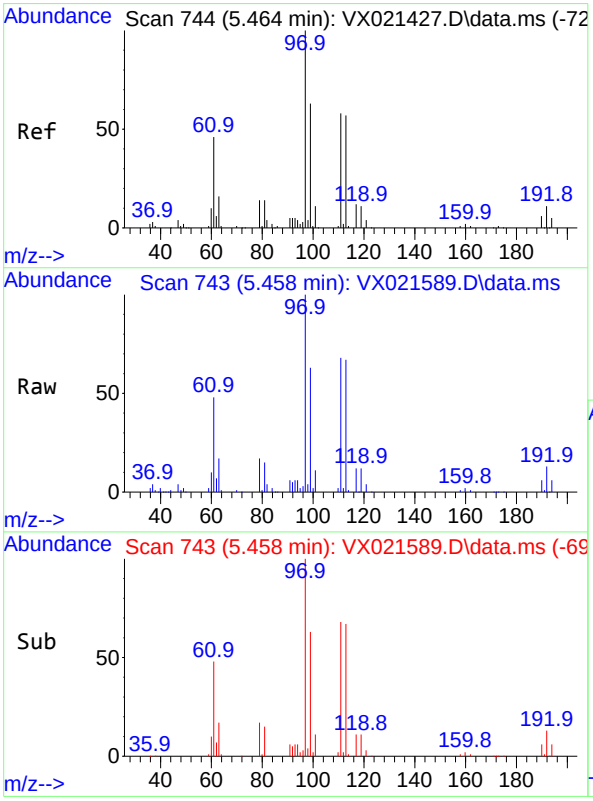


#31
Cyclohexane
Concen: 45.72 ug/l
RT: 5.547 min Scan# 758
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 56 Resp: 67637

Ion	Ratio	Lower	Upper
56	100		
69	31.6	25.3	37.9
84	80.5	71.4	107.0

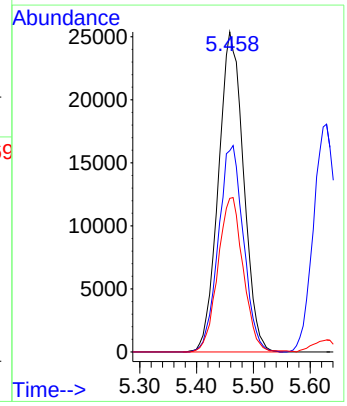




#32
1,1,1-Trichloroethane
Concen: 48.10 ug/l
RT: 5.458 min Scan# 743
Delta R.T. -0.006 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

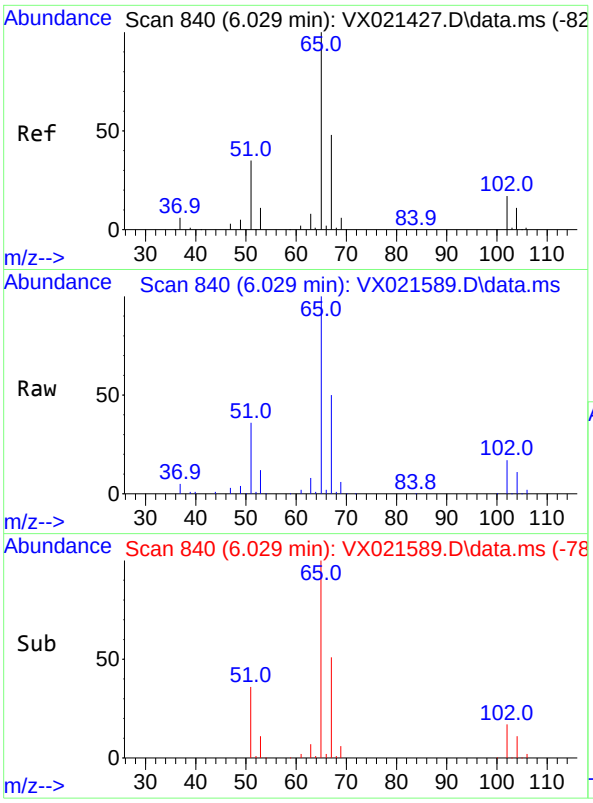
Tgt Ion: 97 Resp: 77936

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.5	77.3
61	48.7	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

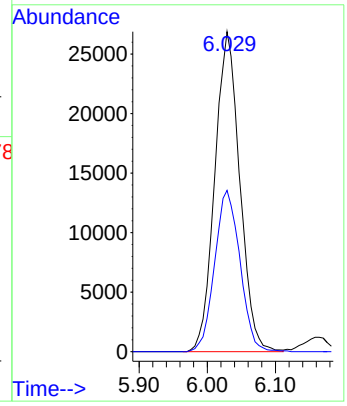
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

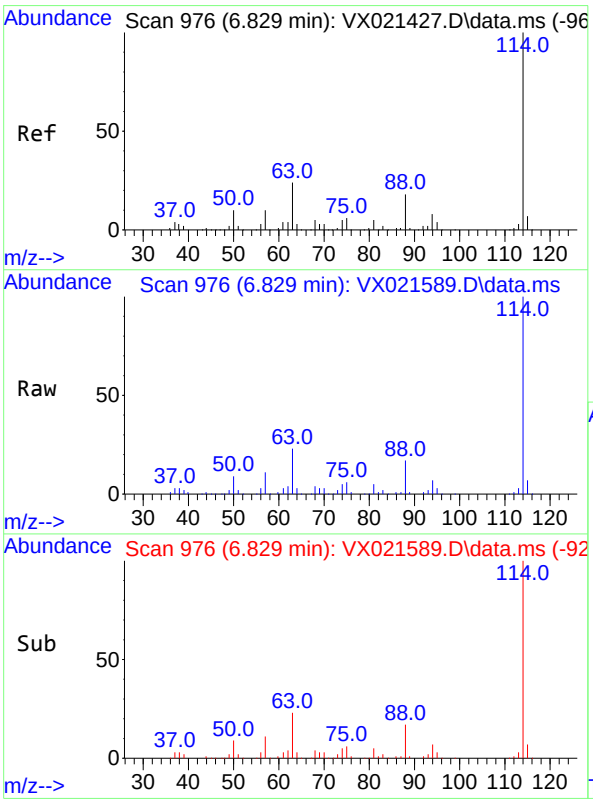


#33
1,2-Dichloroethane-d4
Concen: 50.92 ug/l
RT: 6.029 min Scan# 840
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 65 Resp: 68504

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	105.4

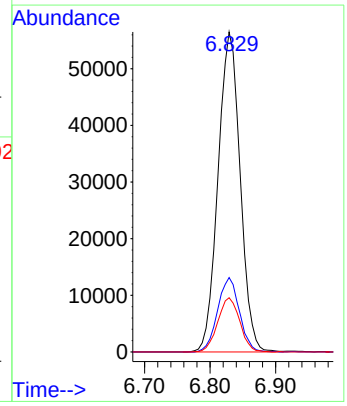




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

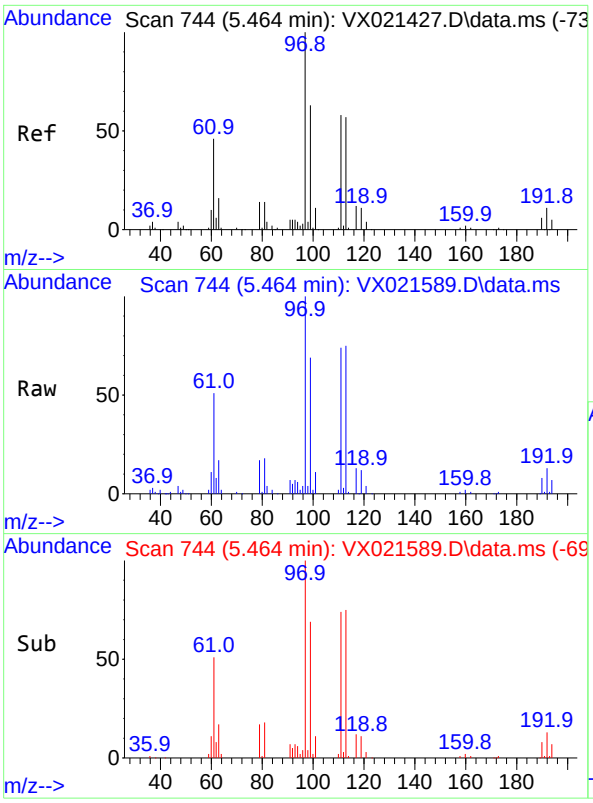
Tgt Ion:114 Resp: 132095

Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	40.8
88	17.0	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

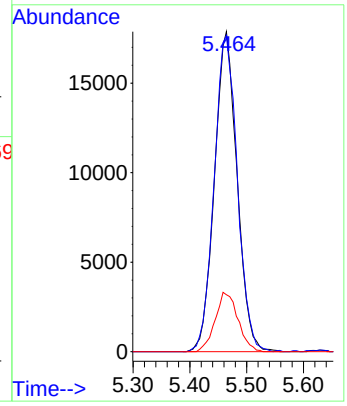
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

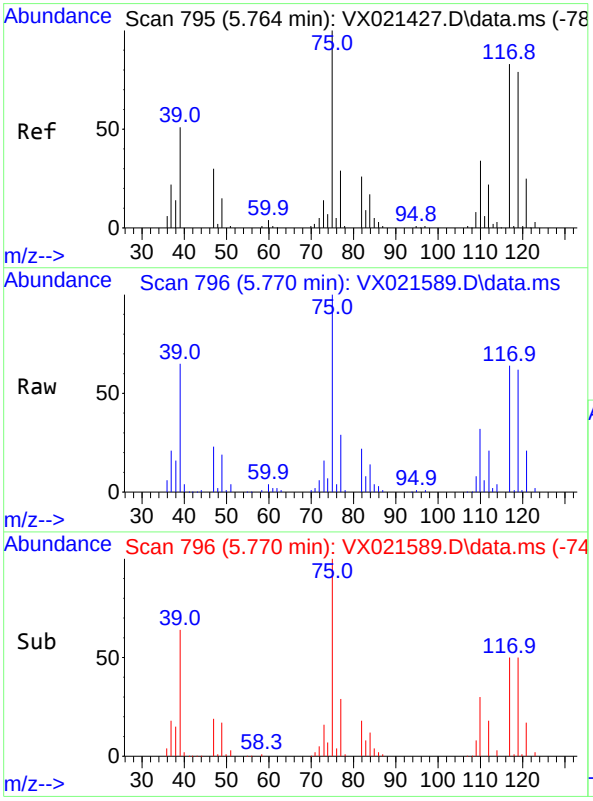


#35
Dibromofluoromethane
Concen: 52.65 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:113 Resp: 49400

Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.9	122.9
192	18.7	16.7	25.1

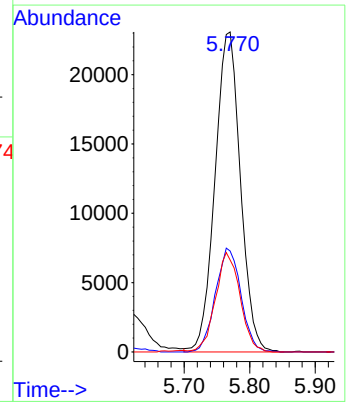




#36
1,1-Dichloropropene
Concen: 47.99 ug/l
RT: 5.770 min Scan# 796
Delta R.T. 0.006 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

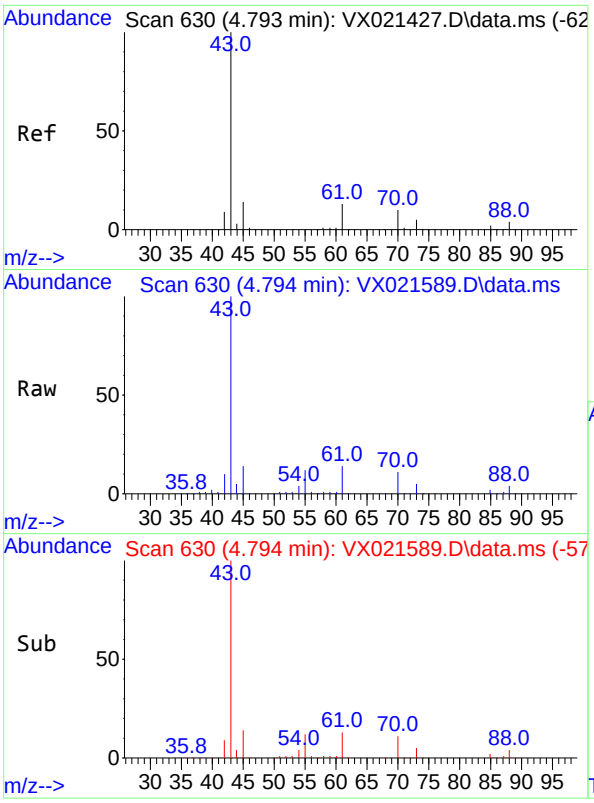
Tgt Ion: 75 Resp: 62114

Ion	Ratio	Lower	Upper
75	100		
110	32.5	18.1	54.4
77	30.1	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

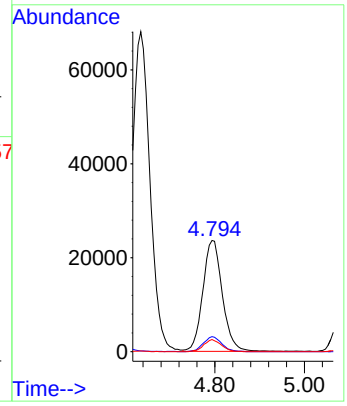
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

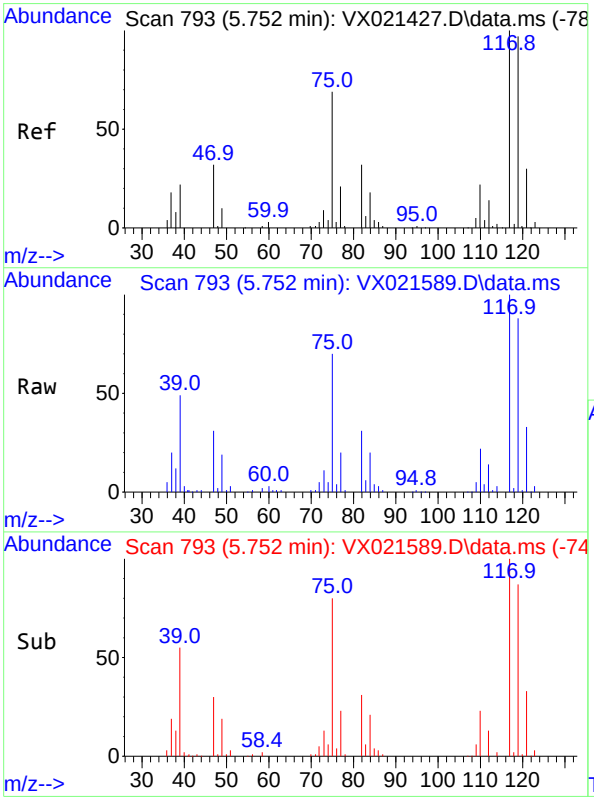


#37
Ethyl Acetate
Concen: 47.54 ug/l
RT: 4.794 min Scan# 630
Delta R.T. 0.001 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 43 Resp: 71146

Ion	Ratio	Lower	Upper
43	100		
61	12.9	12.8	19.2
70	9.9	10.5	15.7#

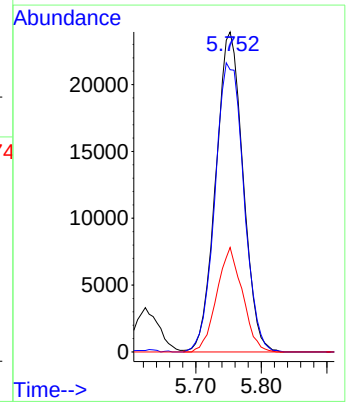




#38
Carbon Tetrachloride
Concen: 49.67 ug/l
RT: 5.752 min Scan# 793
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

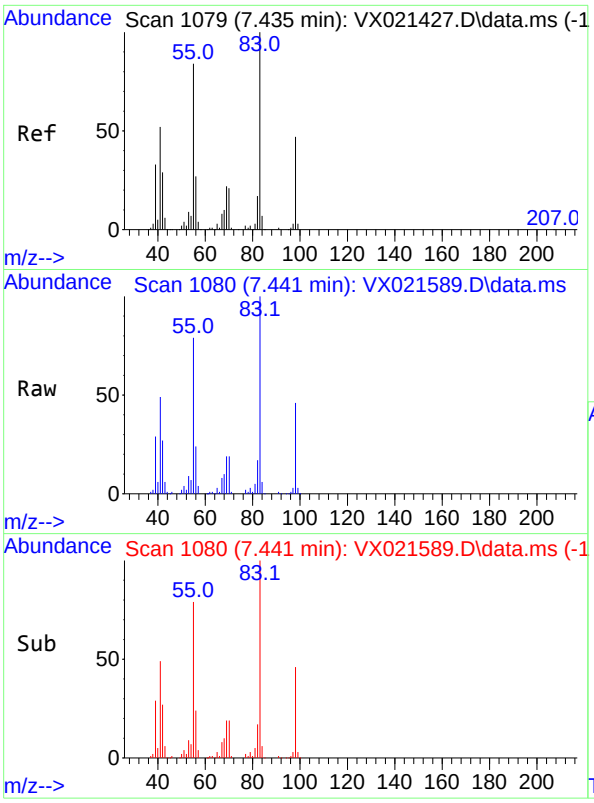
Tgt Ion:117 Resp: 69090

Ion	Ratio	Lower	Upper
117	100		
119	88.2	76.2	114.2
121	32.6	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

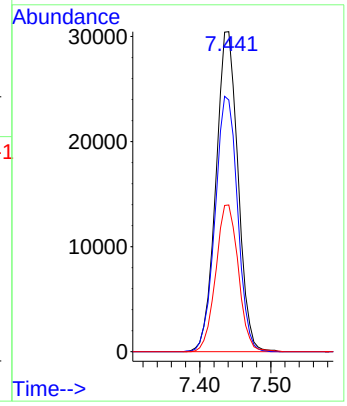
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

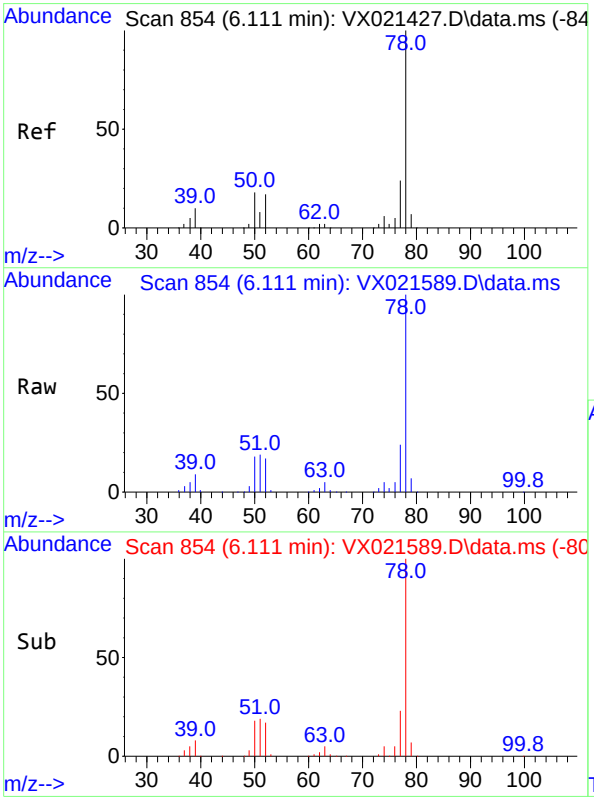


#39
Methylcyclohexane
Concen: 45.87 ug/l
RT: 7.441 min Scan# 1080
Delta R.T. 0.006 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 83 Resp: 65817

Ion	Ratio	Lower	Upper
83	100		
55	78.7	58.9	88.3
98	45.8	38.1	57.1

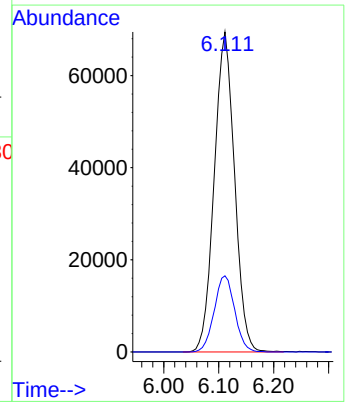




#40
Benzene
Concen: 48.46 ug/l
RT: 6.111 min Scan# 854
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

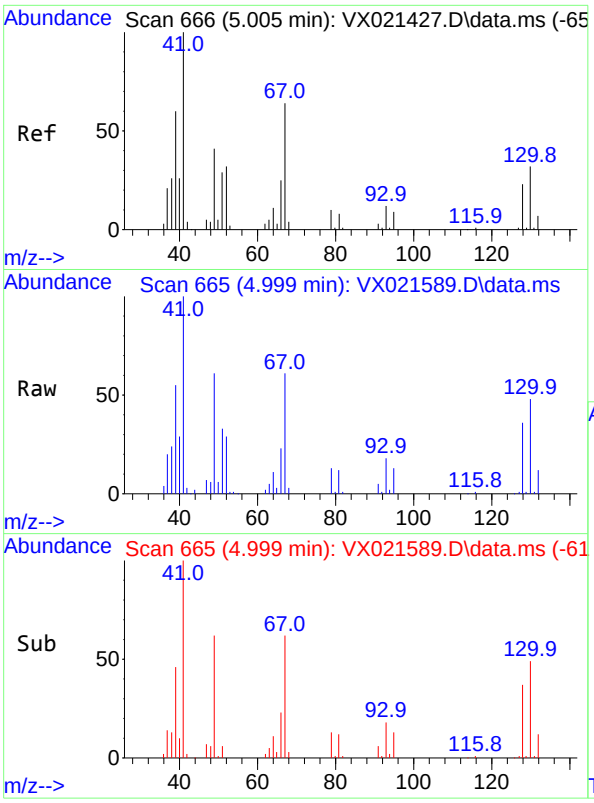
Tgt Ion: 78 Resp: 178102

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

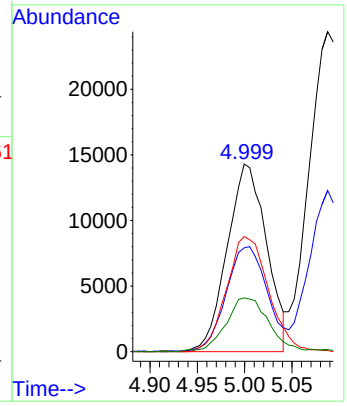
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

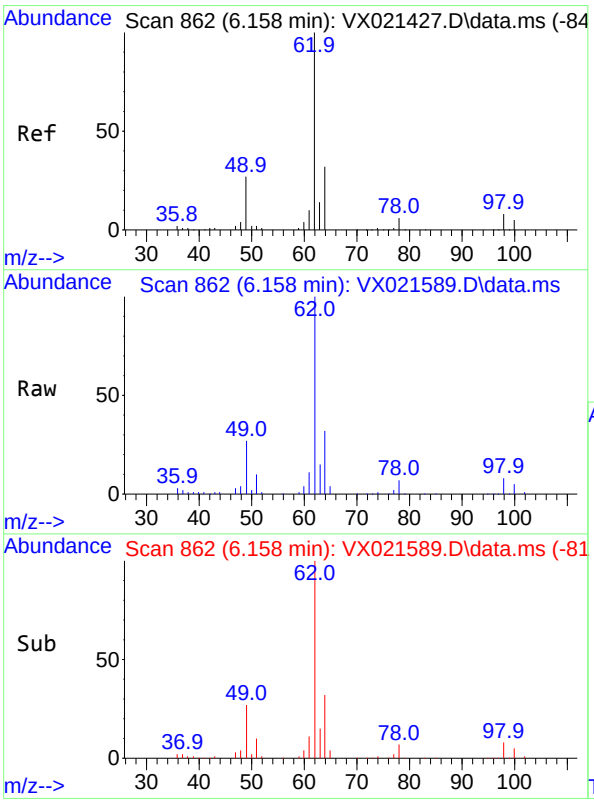


#41
Methacrylonitrile
Concen: 47.65 ug/l
RT: 4.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 41 Resp: 41358

Ion	Ratio	Lower	Upper
41	100		
39	59.7	42.5	63.7
67	65.5	65.0	97.6
52	31.8	25.3	37.9

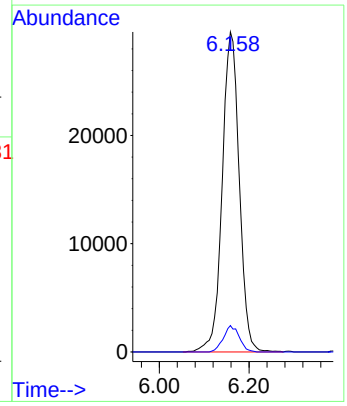




#42
1,2-Dichloroethane
Concen: 49.13 ug/l
RT: 6.158 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

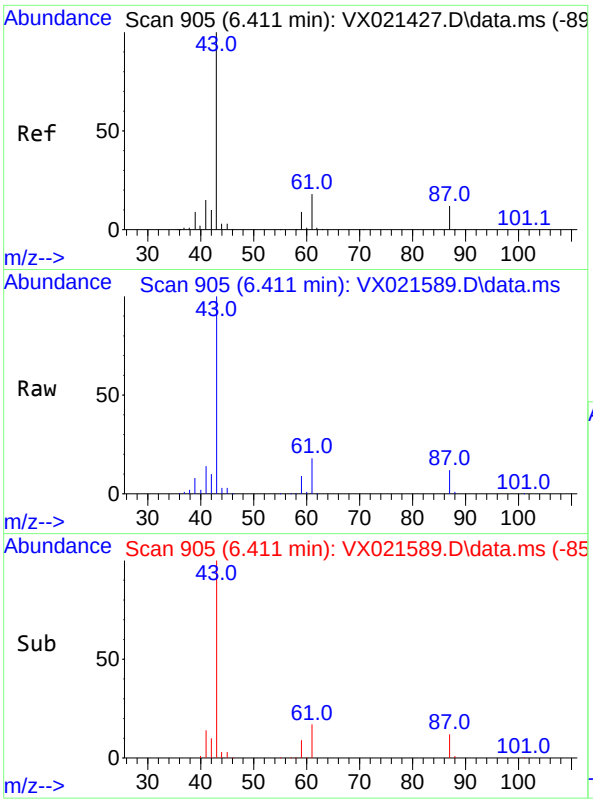
Tgt Ion: 62 Resp: 78288

Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

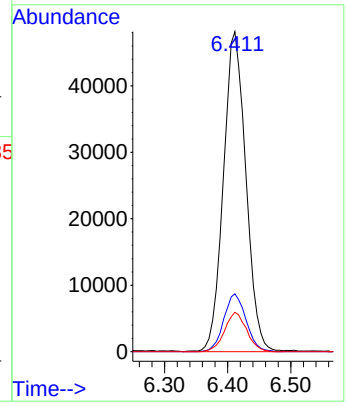
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

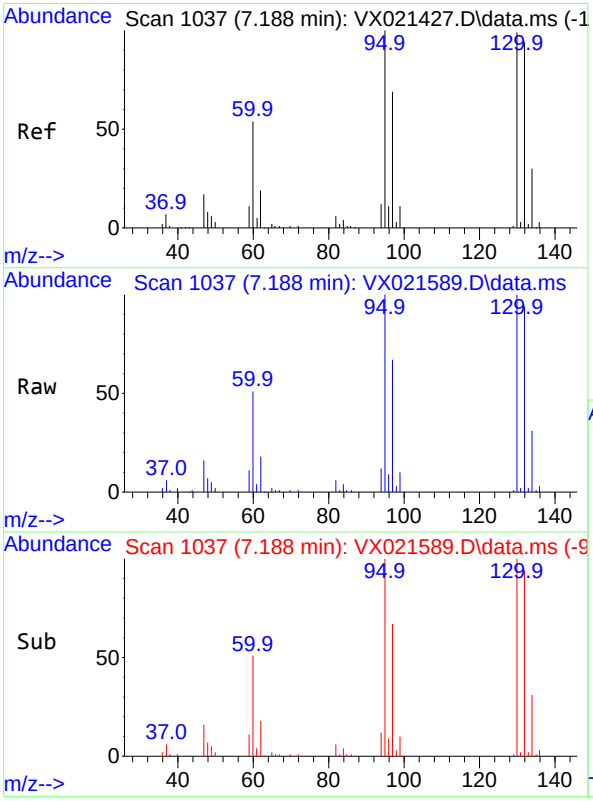


#43
Isopropyl Acetate
Concen: 49.04 ug/l
RT: 6.411 min Scan# 905
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 43 Resp: 119166

Ion	Ratio	Lower	Upper
43	100		
61	17.9	18.2	27.4#
87	12.0	12.5	18.7#

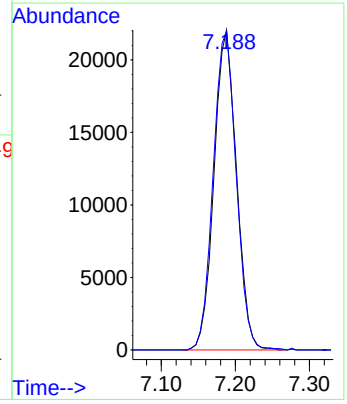




#44
Trichloroethene
Concen: 47.91 ug/l
RT: 7.188 min Scan# 1037
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

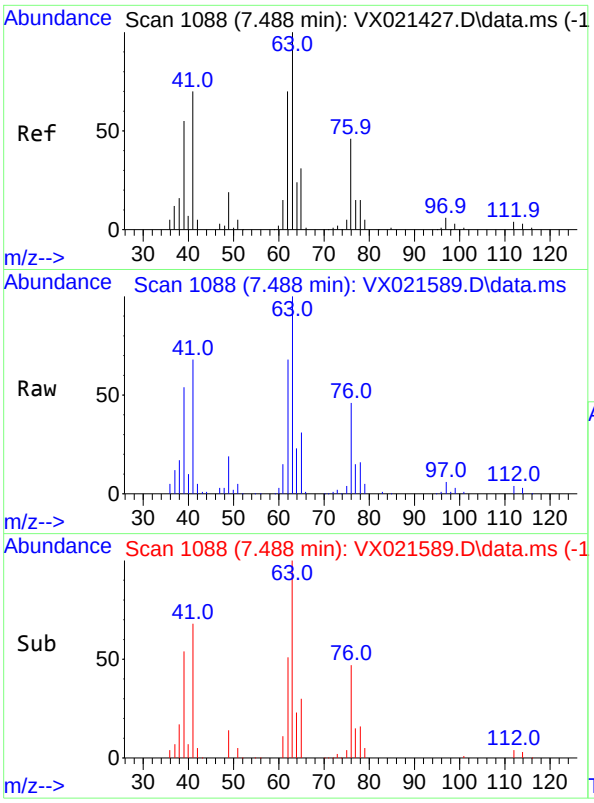
Tgt Ion:130 Resp: 46472

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

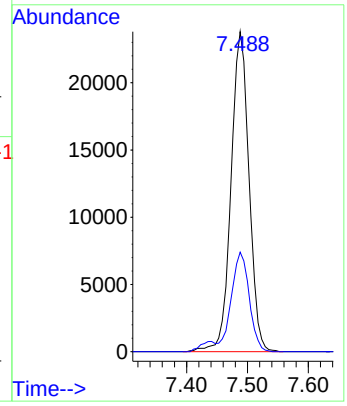
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

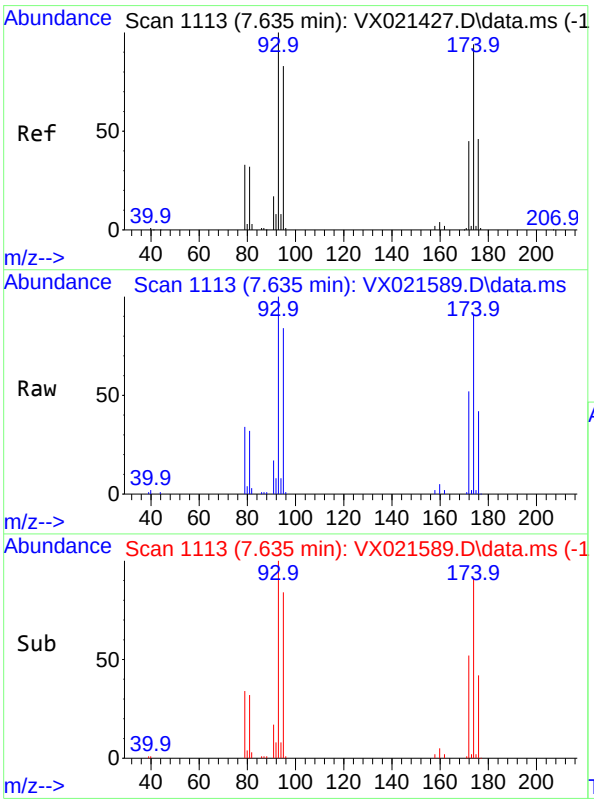


#45
1,2-Dichloropropane
Concen: 48.99 ug/l
RT: 7.488 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 63 Resp: 48778

Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.7	38.5

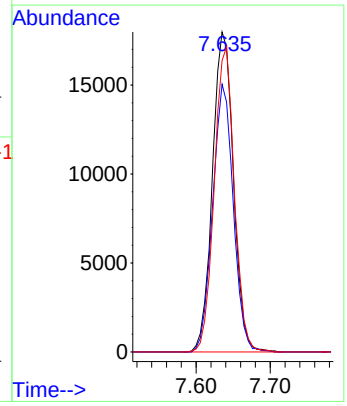




#46
Dibromomethane
Concen: 48.67 ug/l
RT: 7.635 min Scan# 1113
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

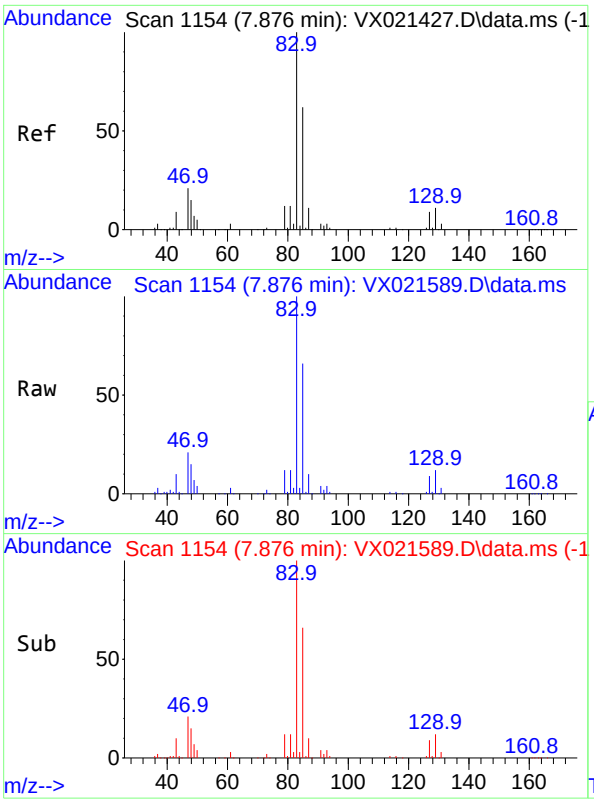
Tgt Ion: 93 Resp: 35319

Ion	Ratio	Lower	Upper
93	100		
95	82.3	66.8	100.2
174	91.4	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

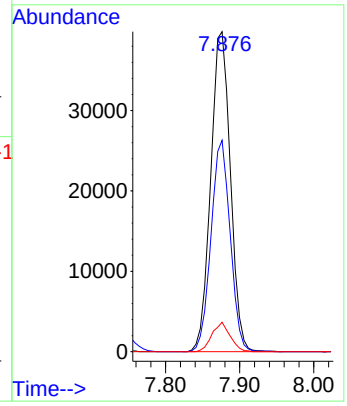
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

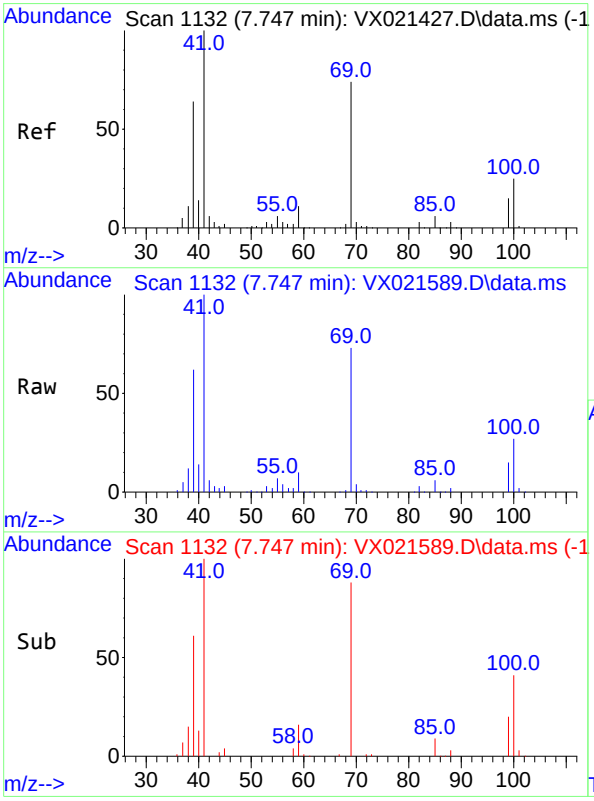


#47
Bromodichloromethane
Concen: 49.70 ug/l
RT: 7.876 min Scan# 1154
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 83 Resp: 73402

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.4	77.0
127	9.2	6.8	10.2

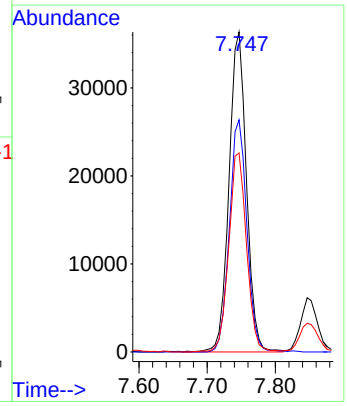




#48
Methyl methacrylate
Concen: 49.85 ug/l
RT: 7.747 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

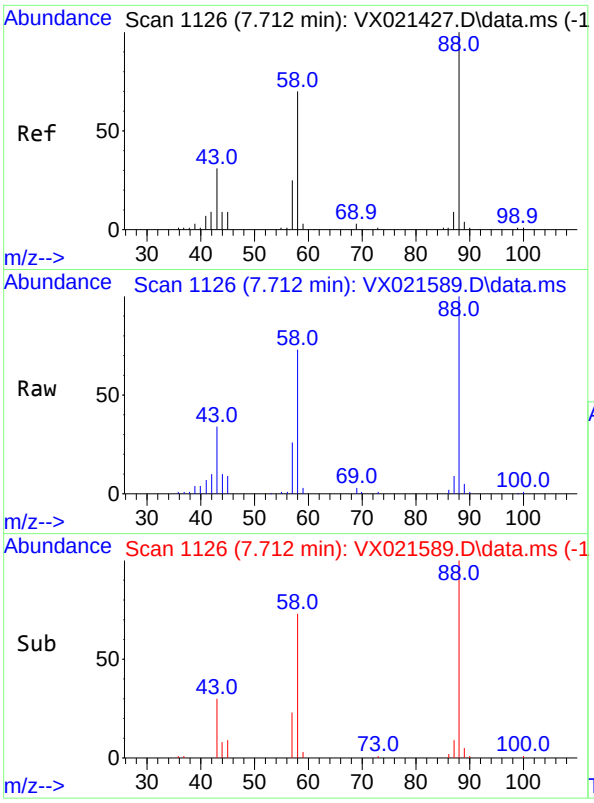
Tgt Ion: 41 Resp: 64621

Ion	Ratio	Lower	Upper
41	100		
69	73.0	76.0	114.0#
39	63.5	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

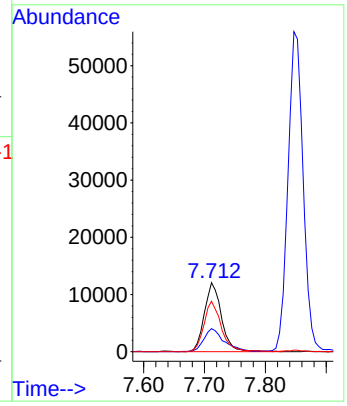
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

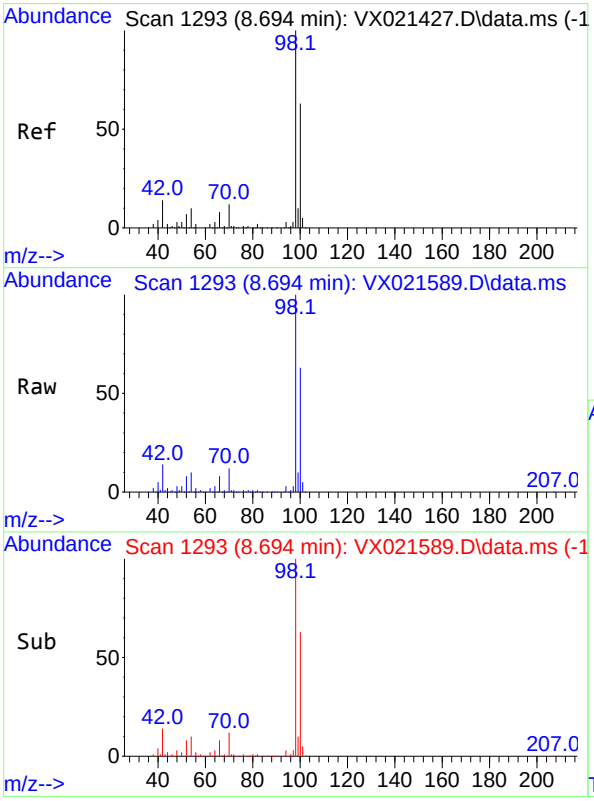


#49
1,4-Dioxane
Concen: 1011.84 ug/l
RT: 7.712 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 88 Resp: 23482

Ion	Ratio	Lower	Upper
88	100		
43	39.9	23.2	34.8#
58	74.4	55.0	82.4

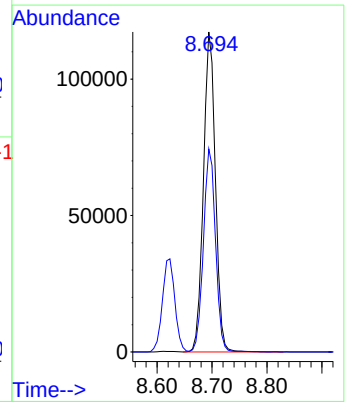




#50
Toluene-d8
Concen: 53.07 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

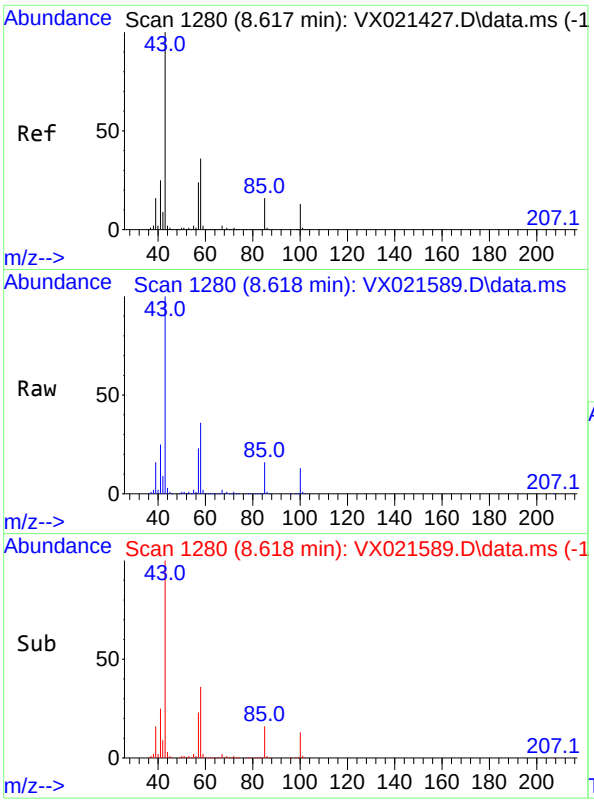
Tgt Ion: 98 Resp: 177446

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

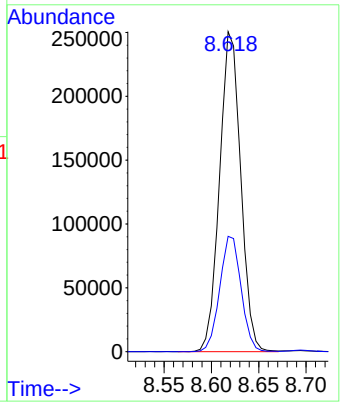
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

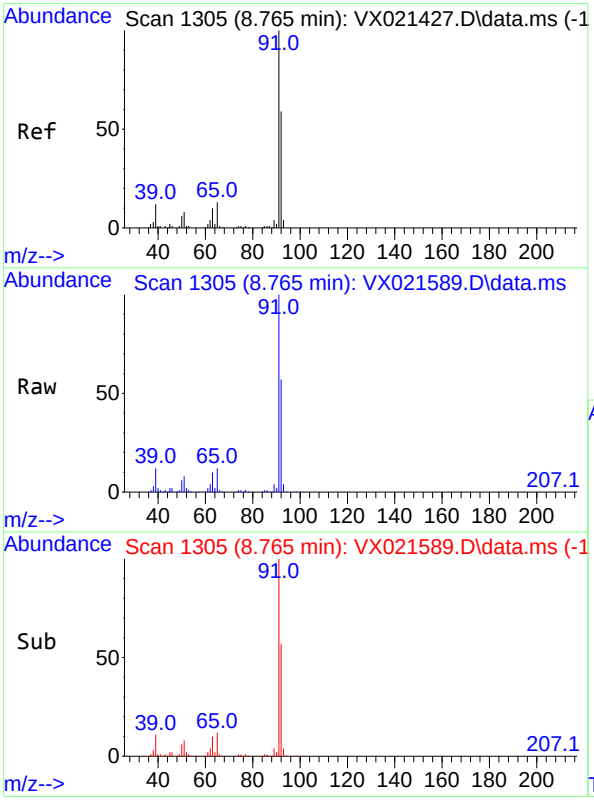


#51
4-Methyl-2-Pentanone
Concen: 260.40 ug/l
RT: 8.618 min Scan# 1280
Delta R.T. 0.001 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 43 Resp: 389208

Ion	Ratio	Lower	Upper
43	100		
58	36.5	35.4	53.0

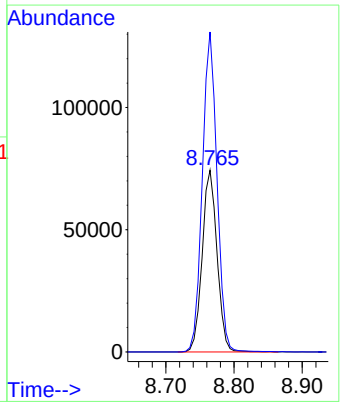




#52
Toluene
Concen: 49.64 ug/l
RT: 8.765 min Scan# 1305
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

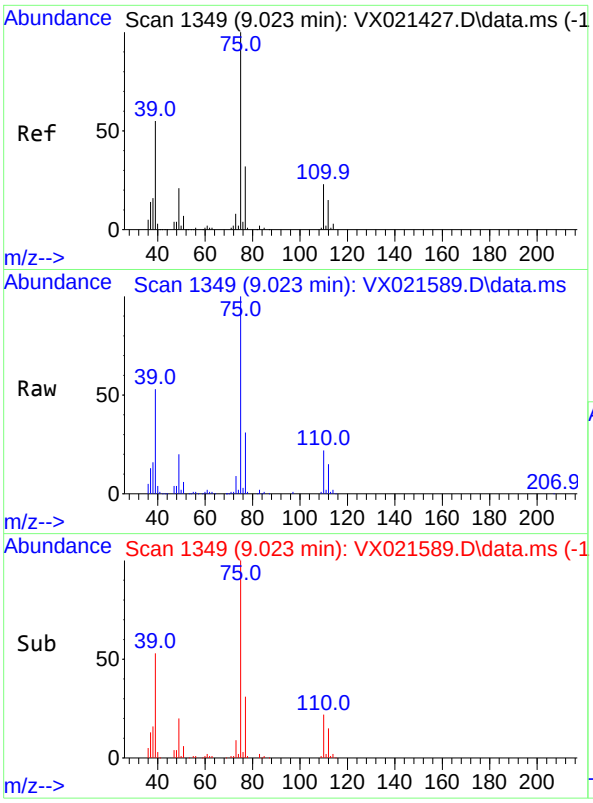
Tgt Ion: 92 Resp: 112689

Ion	Ratio	Lower	Upper
92	100		
91	173.8	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

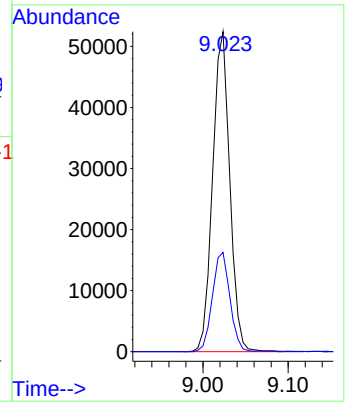
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

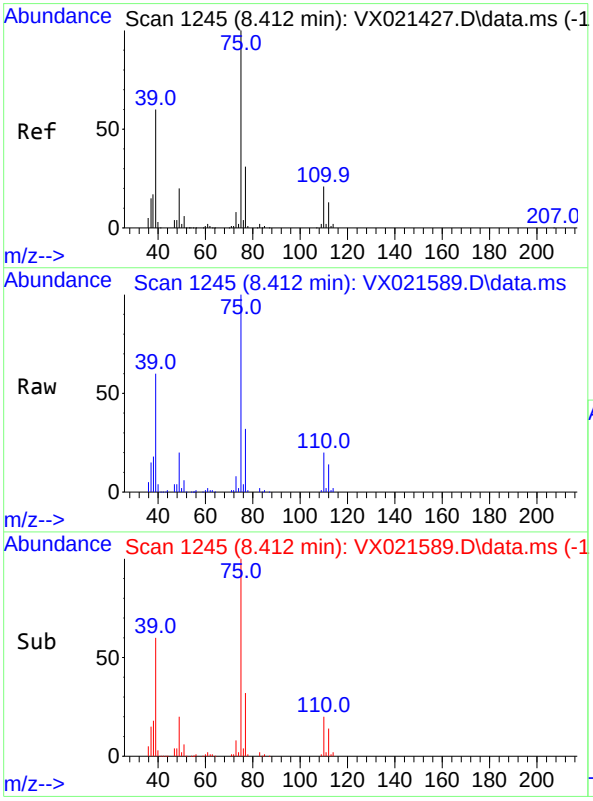


#53
t-1,3-Dichloropropene
Concen: 49.10 ug/l
RT: 9.023 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 75 Resp: 73220

Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.9	37.3

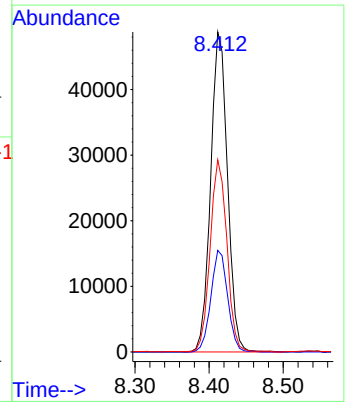




#54
cis-1,3-Dichloropropene
Concen: 48.45 ug/l
RT: 8.412 min Scan# 1245
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

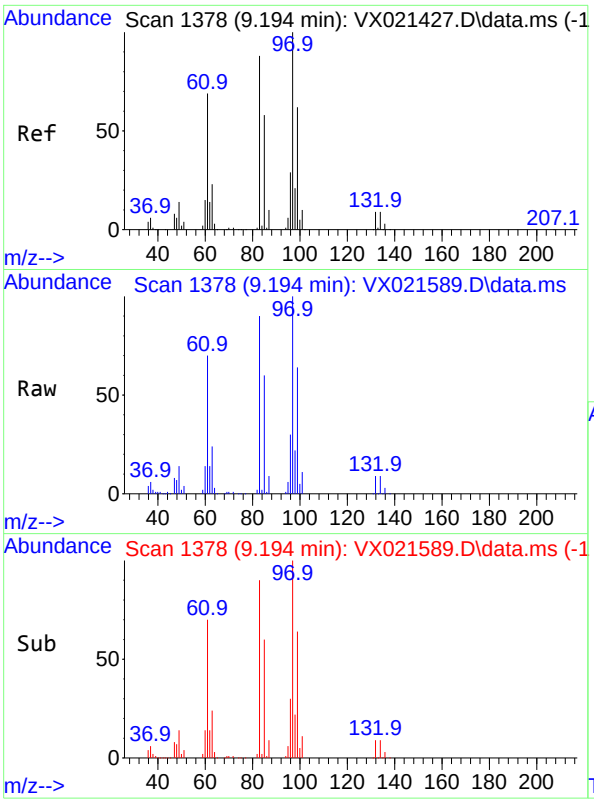
Tgt Ion: 75 Resp: 76892

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.7	38.5
39	60.0	35.1	52.7#



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

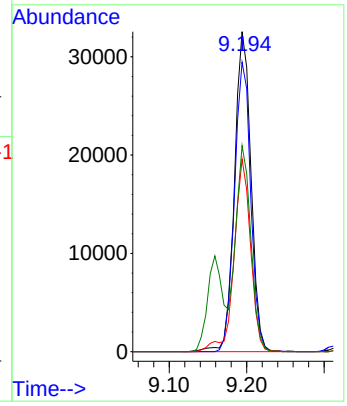
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

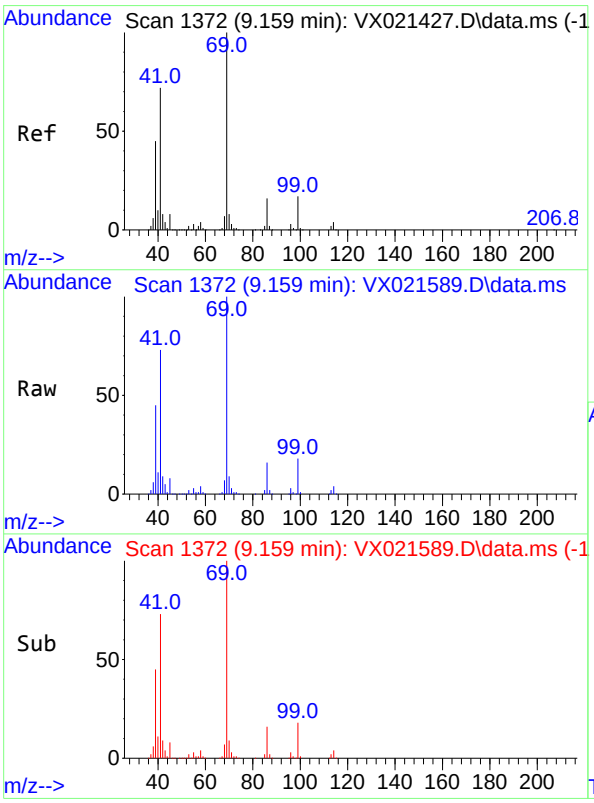


#55
1,1,2-Trichloroethane
Concen: 50.48 ug/l
RT: 9.194 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 97 Resp: 48371

Ion	Ratio	Lower	Upper
97	100		
83	90.5	69.3	103.9
85	60.2	44.3	66.5
99	64.4	50.3	75.5

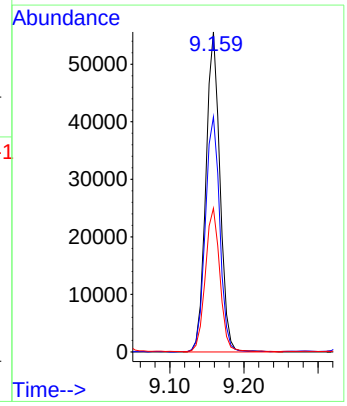




#56
Ethyl methacrylate
Concen: 45.44 ug/l
RT: 9.159 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

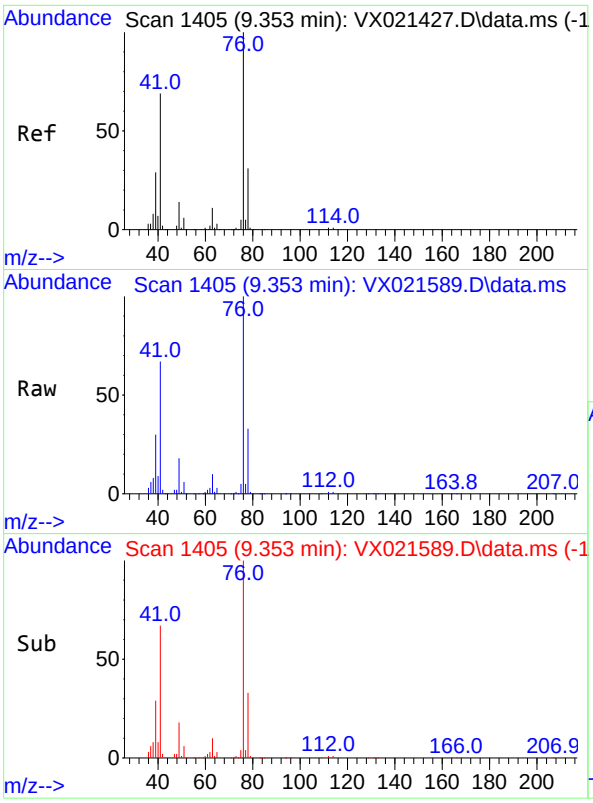
Tgt Ion: 69 Resp: 73224

Ion	Ratio	Lower	Upper
69	100		
41	76.0	46.8	70.2#
39	46.3	24.7	37.1#



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

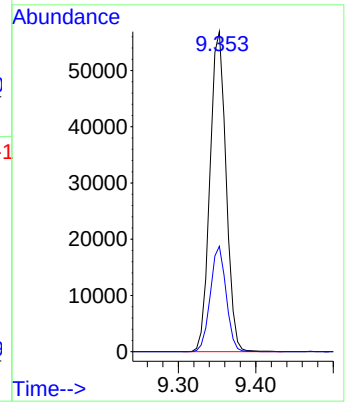
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

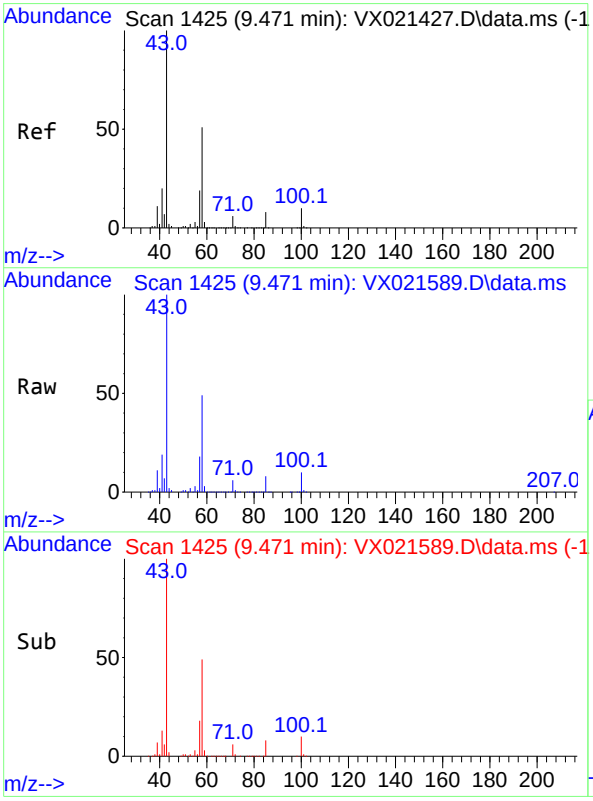


#57
1,3-Dichloropropane
Concen: 50.07 ug/l
RT: 9.353 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 76 Resp: 82098

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.2

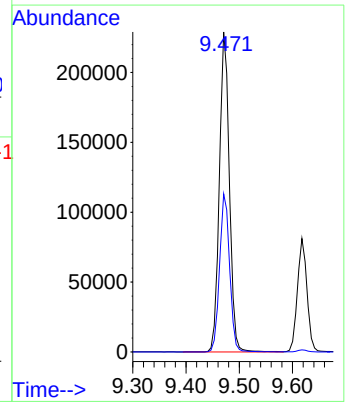




#59
2-Hexanone
Concen: 266.07 ug/l
RT: 9.471 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

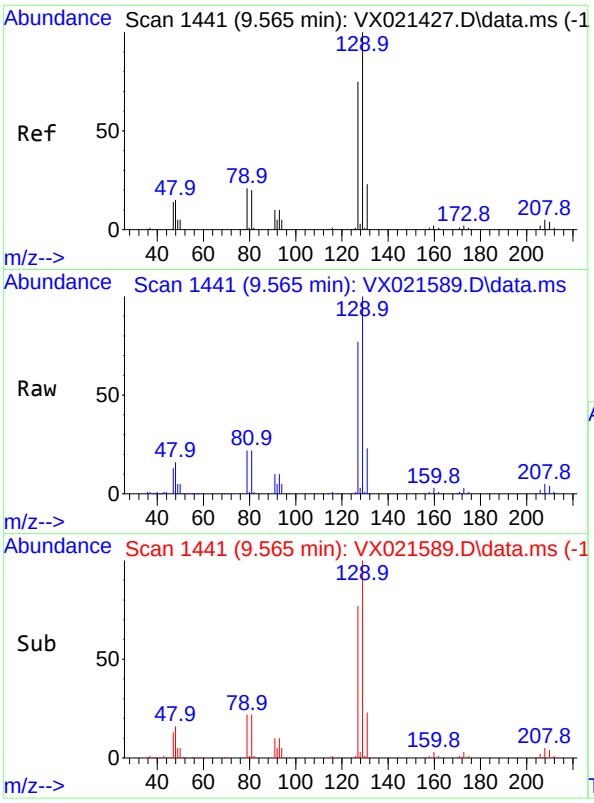
Tgt Ion: 43 Resp: 298619

Ion	Ratio	Lower	Upper
43	100		
58	49.7	30.9	92.8



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

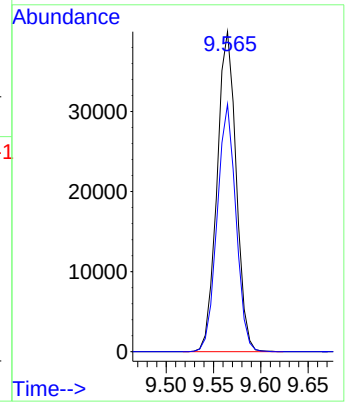
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

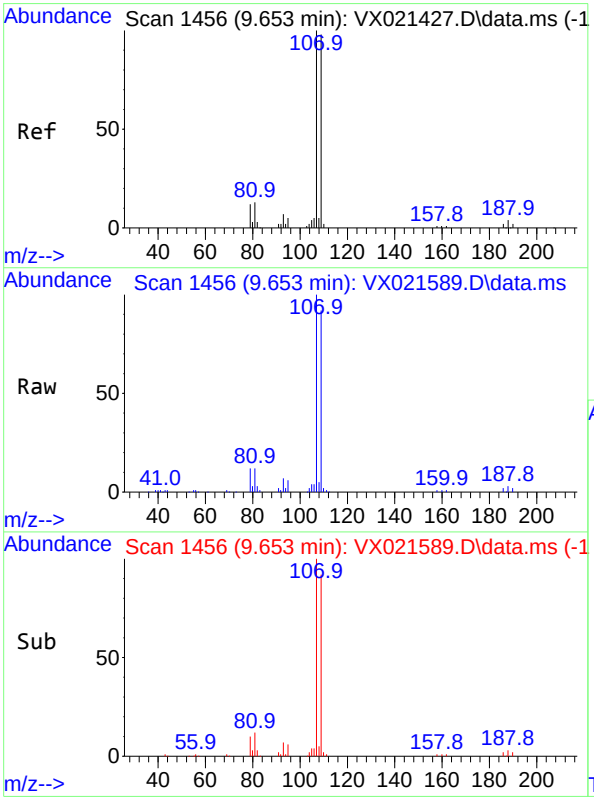


#60
Dibromochloromethane
Concen: 52.33 ug/l
RT: 9.565 min Scan# 1441
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:129 Resp: 56155

Ion	Ratio	Lower	Upper
129	100		
127	75.8	38.4	115.2

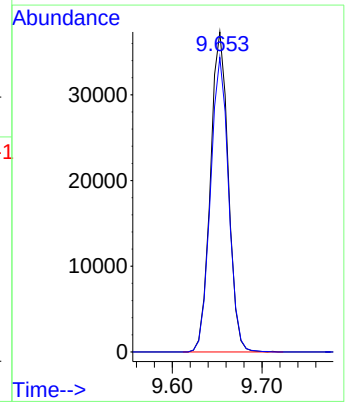




#61
1,2-Dibromoethane
Concen: 50.17 ug/l
RT: 9.653 min Scan# 1456
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

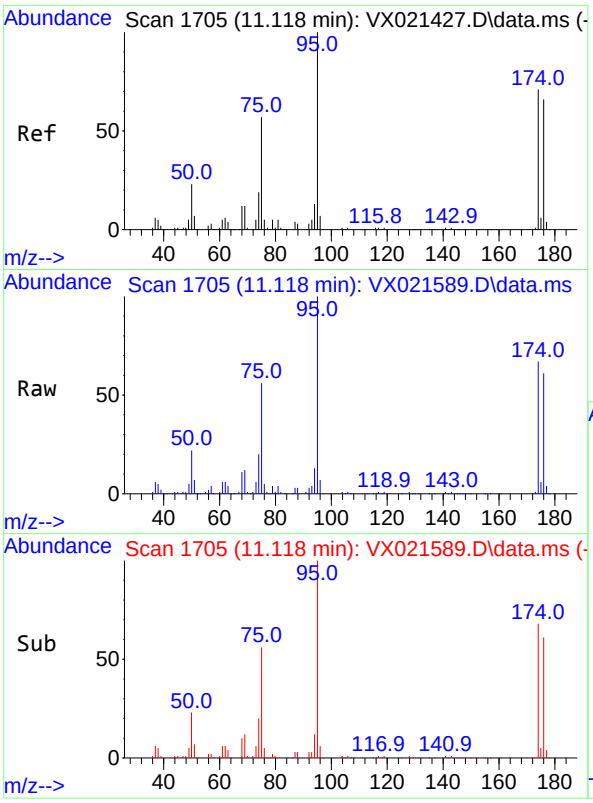
Tgt Ion:107 Resp: 51635

Ion	Ratio	Lower	Upper
107	100		
109	93.1	75.8	113.6



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

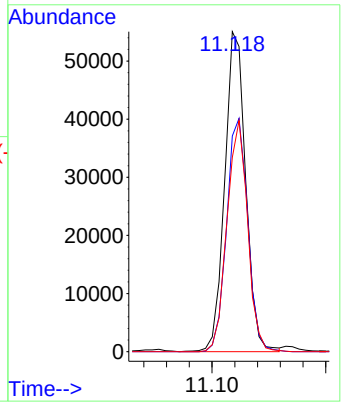
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

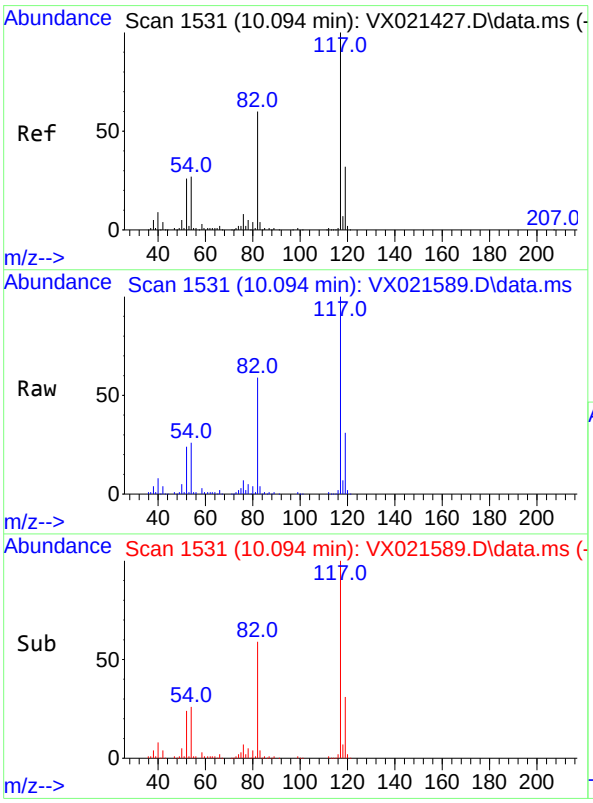


#62
4-Bromofluorobenzene
Concen: 54.37 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 95 Resp: 70685

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	154.6
176	70.9	0.0	155.8

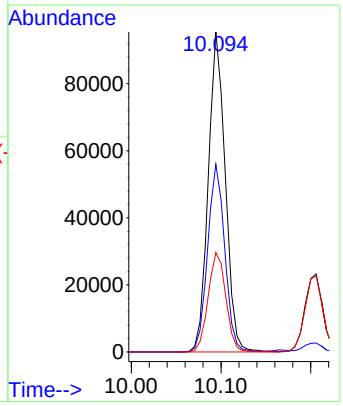




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

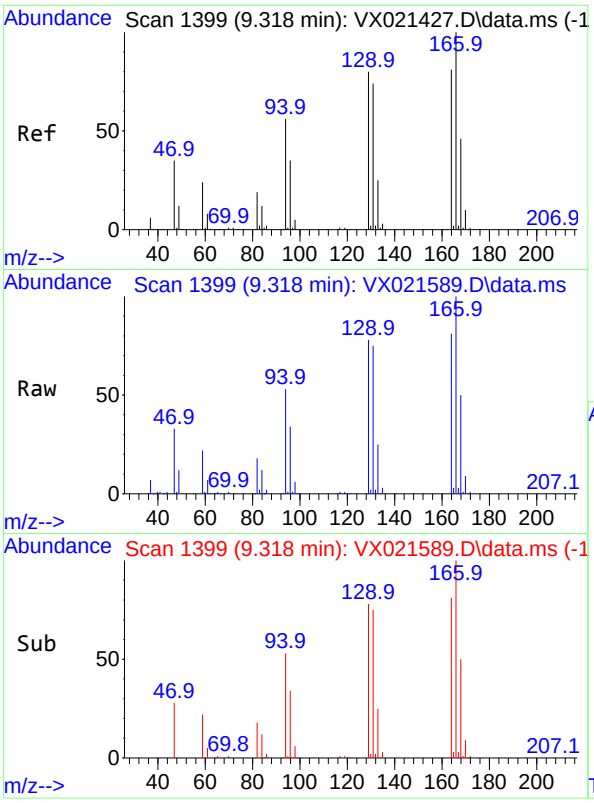
Tgt Ion:117 Resp: 125590

Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.4	71.2
119	31.0	26.6	39.8



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

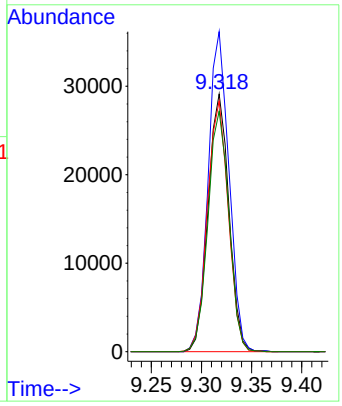
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

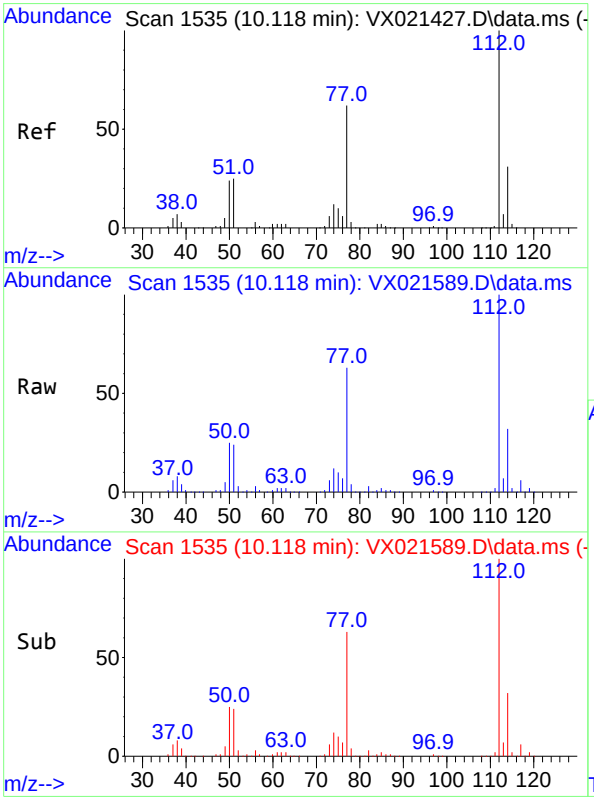


#64
Tetrachloroethene
Concen: 50.19 ug/l
RT: 9.318 min Scan# 1399
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:164 Resp: 42221

Ion	Ratio	Lower	Upper
164	100		
166	124.2	103.4	155.2
129	97.3	70.8	106.2
131	93.4	72.5	108.7

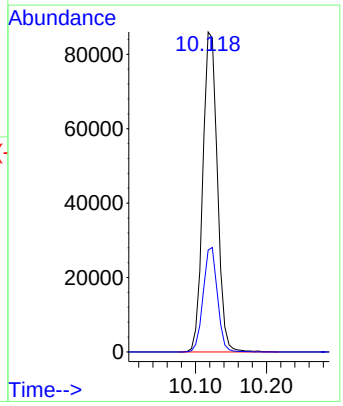




#65
Chlorobenzene
Concen: 48.58 ug/l
RT: 10.118 min Scan# 1535
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

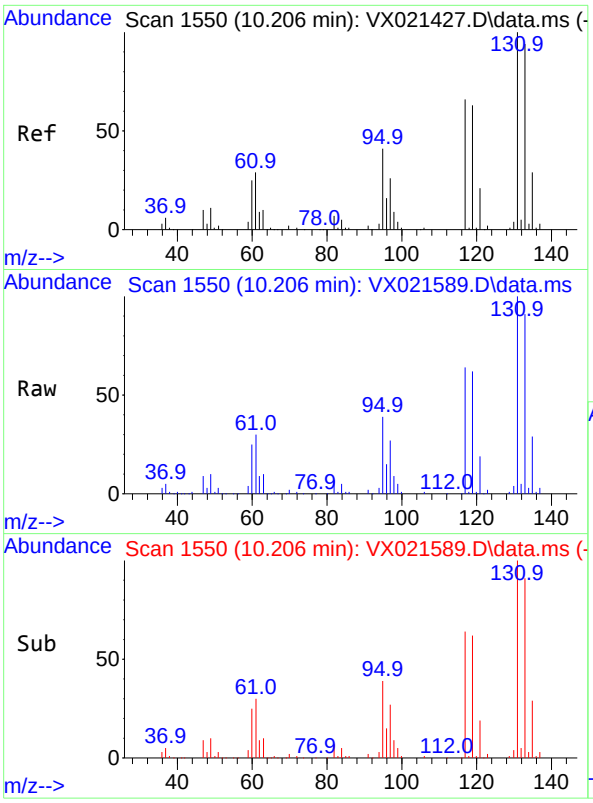
Tgt Ion:112 Resp: 122567

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

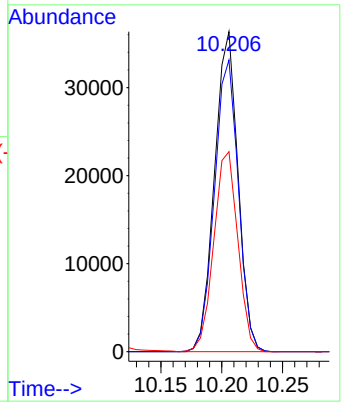
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

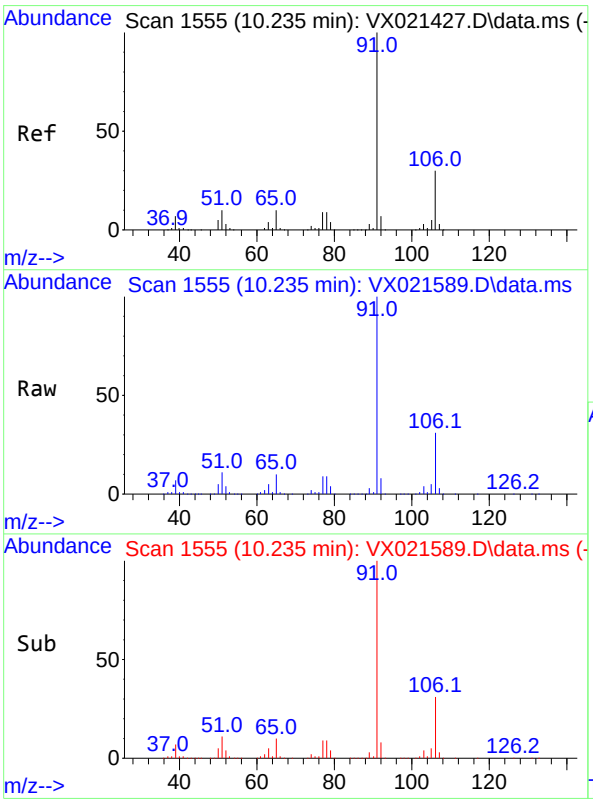


#66
1,1,1,2-Tetrachloroethane
Concen: 50.47 ug/l
RT: 10.206 min Scan# 1550
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:131 Resp: 48792

Ion	Ratio	Lower	Upper
131	100		
133	93.0	47.7	143.1
119	64.2	32.1	96.5

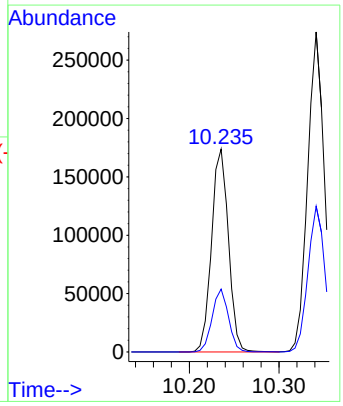




#67
Ethyl Benzene
Concen: 49.56 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

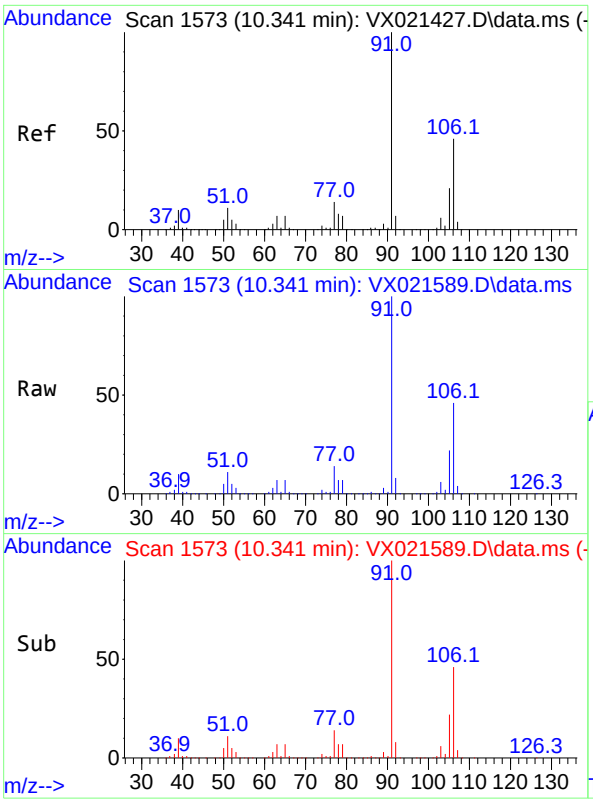
Tgt Ion: 91 Resp: 227904

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

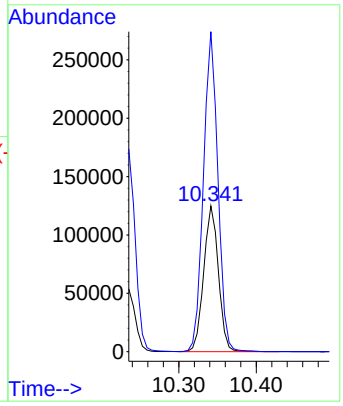
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

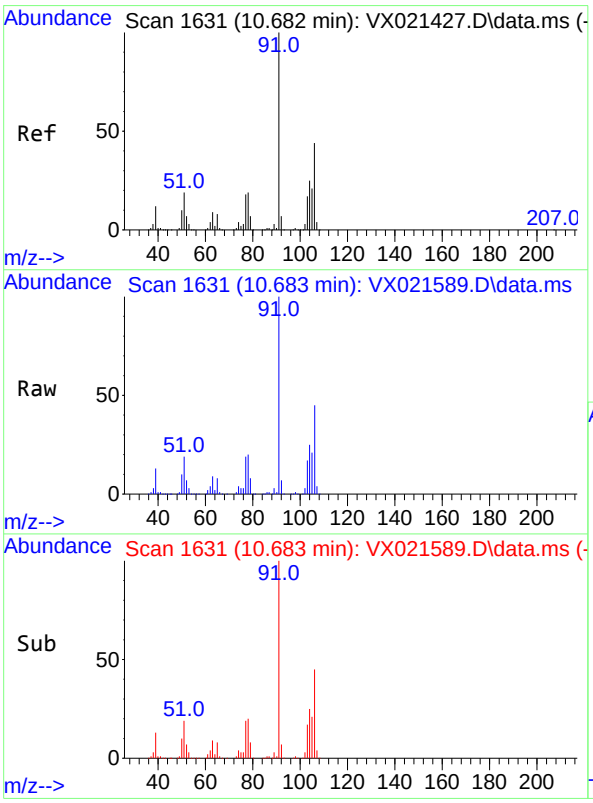


#68
m/p-Xylenes
Concen: 100.56 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:106 Resp: 164754

Ion	Ratio	Lower	Upper
106	100		
91	215.7	162.8	244.2

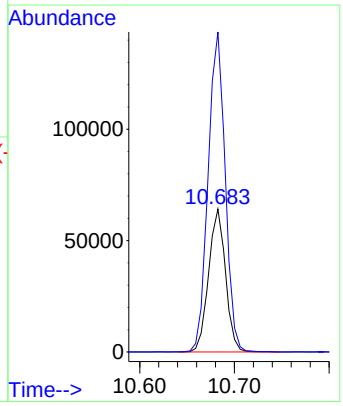




#69
o-Xylene
Concen: 50.18 ug/l
RT: 10.683 min Scan# 1631
Delta R.T. 0.001 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

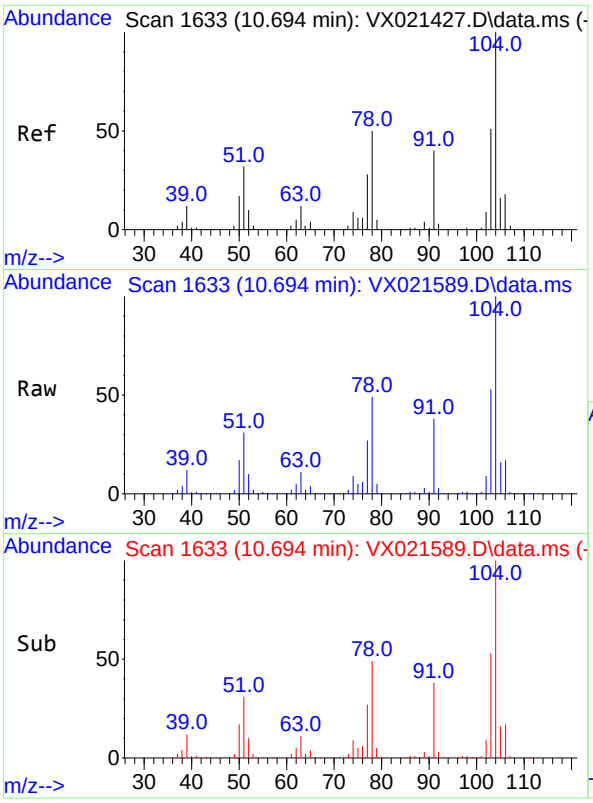
Tgt Ion:106 Resp: 79627

Ion	Ratio	Lower	Upper
106	100		
91	226.2	108.1	324.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

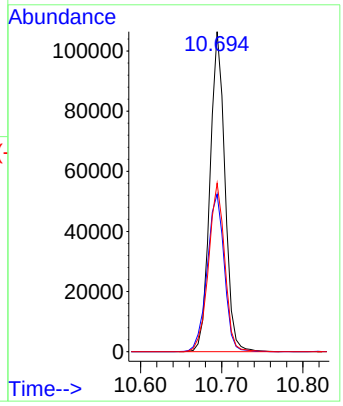
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

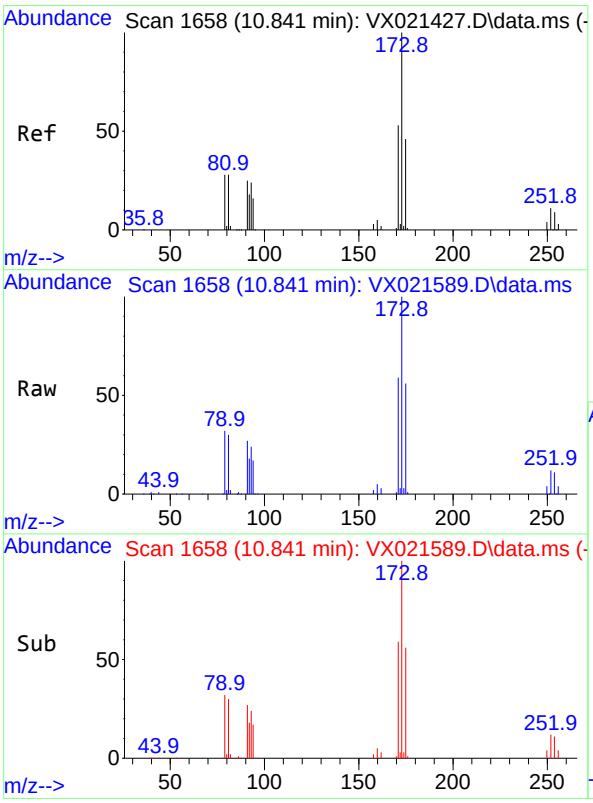


#70
Styrene
Concen: 49.73 ug/l
RT: 10.694 min Scan# 1633
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:104 Resp: 135716

Ion	Ratio	Lower	Upper
104	100		
78	56.3	40.0	60.0
103	57.0	43.4	65.0

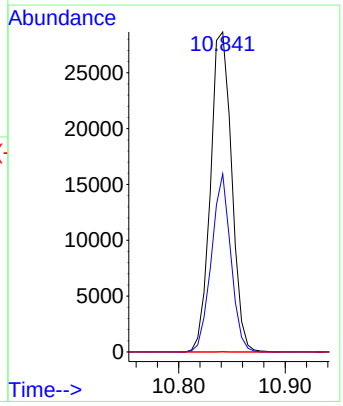




#71
Bromoform
Concen: 50.31 ug/l
RT: 10.841 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

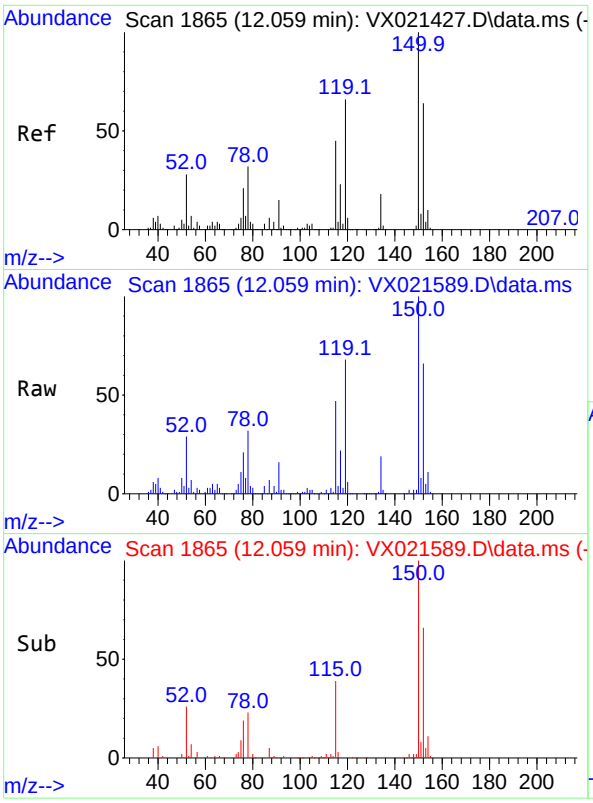
Tgt Ion:173 Resp: 39524

Ion	Ratio	Lower	Upper
173	100		
175	50.8	23.9	71.8
254	0.0	0.1	0.1#



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

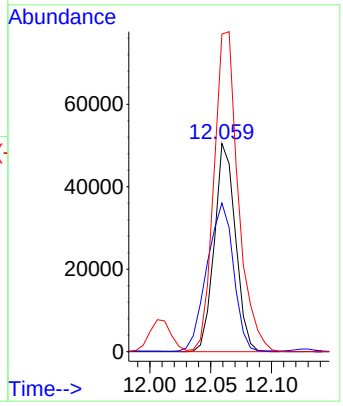
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

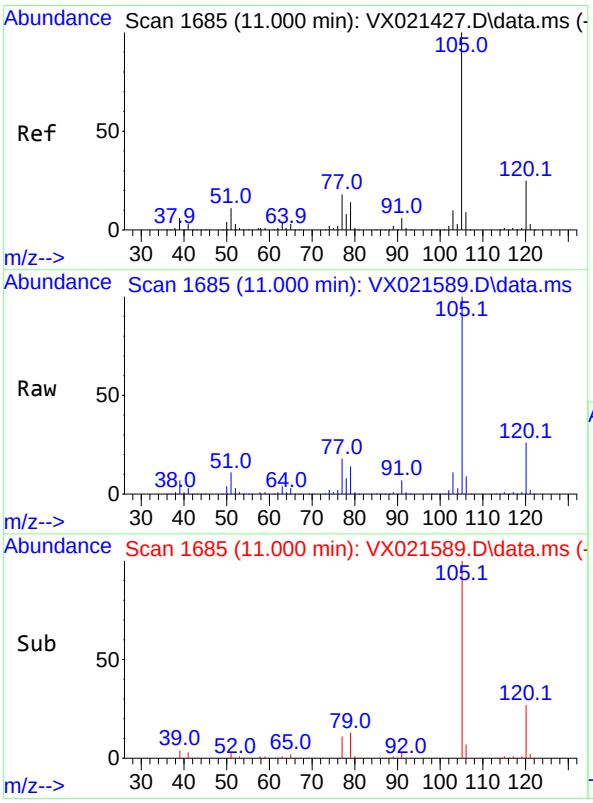


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:152 Resp: 60876

Ion	Ratio	Lower	Upper
152	100		
115	89.3	41.1	123.3
150	177.1	0.0	349.0

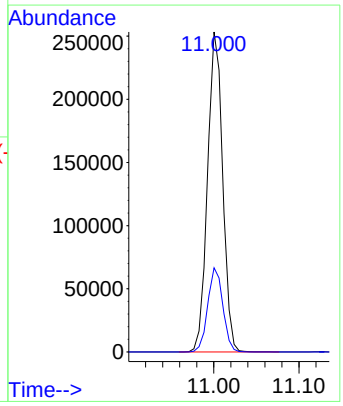




#73
Isopropylbenzene
Concen: 73.03 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

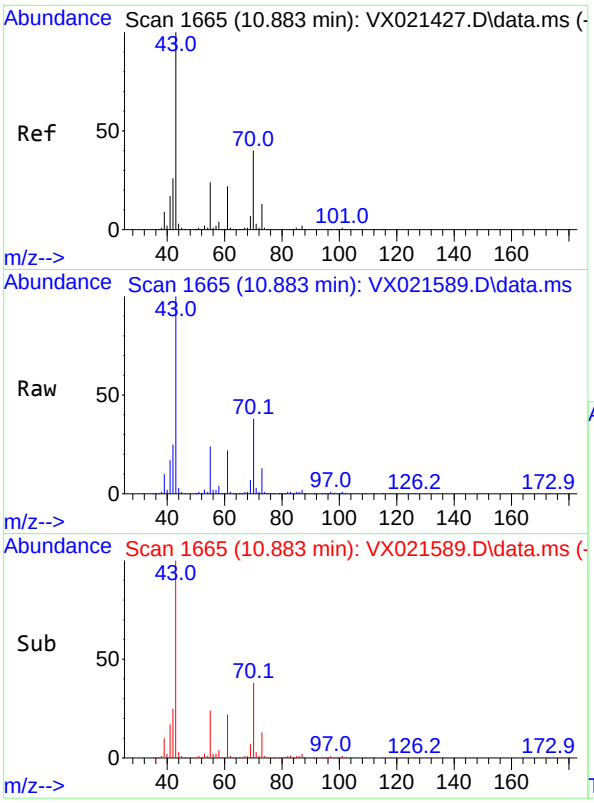
Tgt Ion:105 Resp: 312344

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.6



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

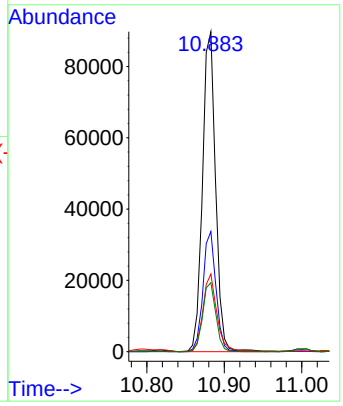
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

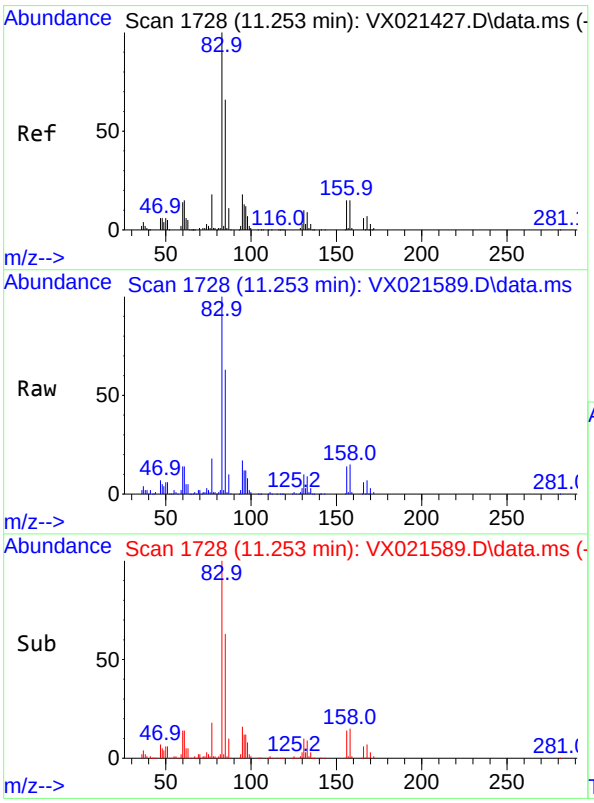


#74
N-amyl acetate
Concen: 51.06 ug/l
RT: 10.883 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 43 Resp: 105675

Ion	Ratio	Lower	Upper
43	100		
70	37.4	39.0	58.6#
55	26.3	21.5	32.3
61	21.5	22.1	33.1#

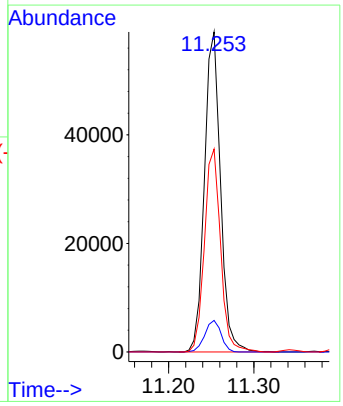




#75
1,1,2,2-Tetrachloroethane
Concen: 51.03 ug/l
RT: 11.253 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

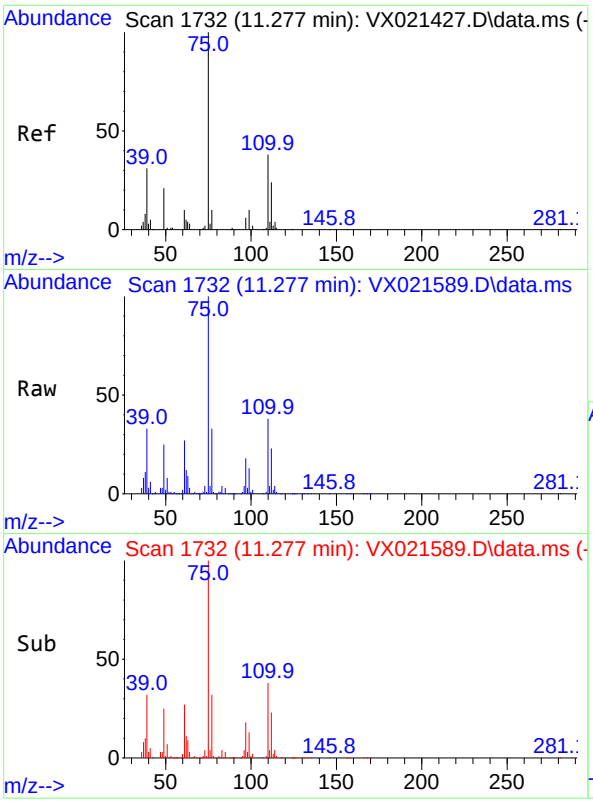
Tgt Ion: 83 Resp: 77128

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.2
85	63.7	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

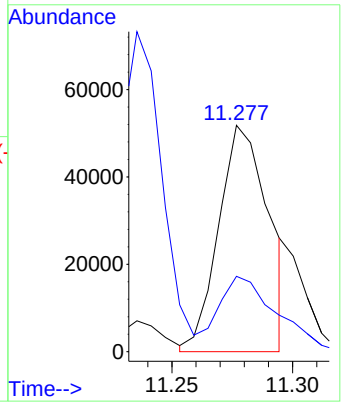
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

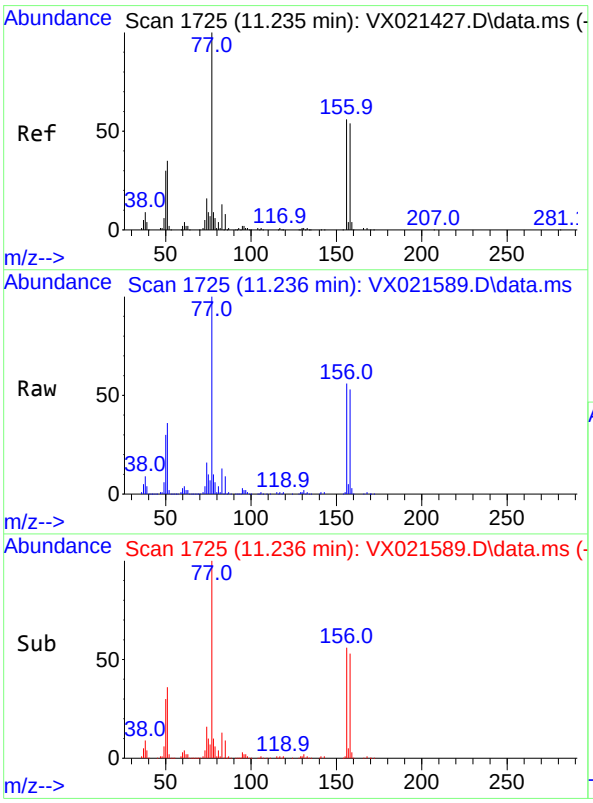


#76
1,2,3-Trichloropropane
Concen: 52.56 ug/l m
RT: 11.277 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 75 Resp: 74481

Ion	Ratio	Lower	Upper
75	100		
77	38.9	19.1	57.5

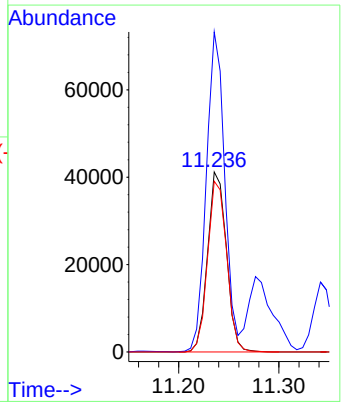




#77
Bromobenzene
Concen: 50.85 ug/l
RT: 11.236 min Scan# 1725
Delta R.T. 0.001 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

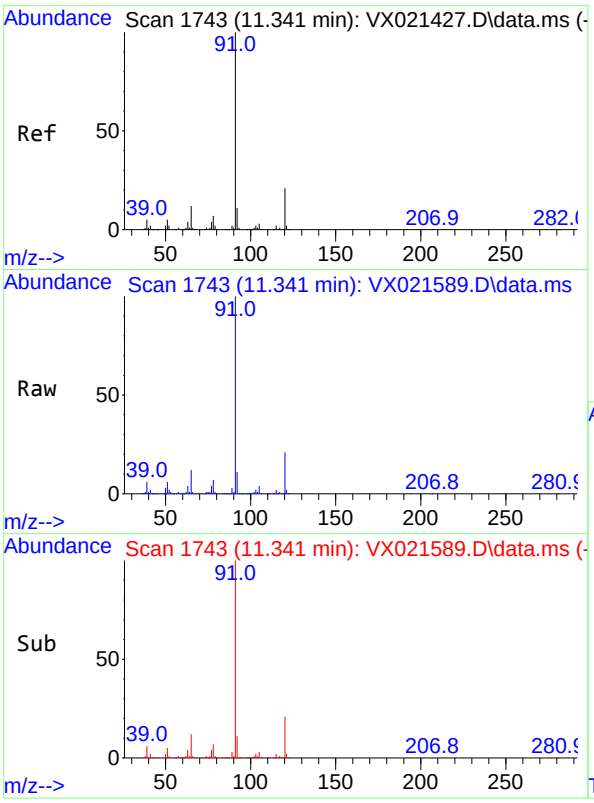
Tgt Ion:156 Resp: 53921

Ion	Ratio	Lower	Upper
156	100		
77	173.0	82.8	248.6
158	96.0	49.1	147.4



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

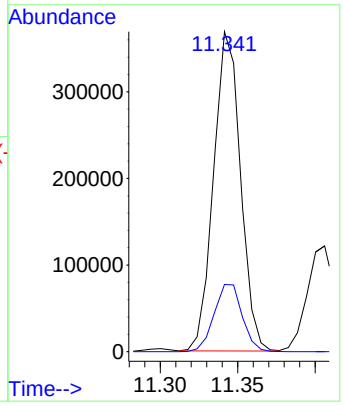
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

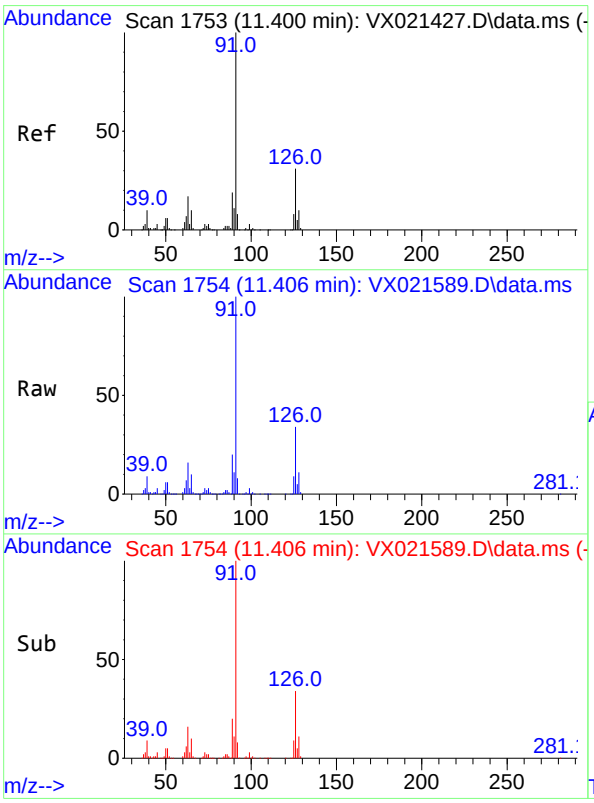


#78
n-propylbenzene
Concen: 88.09 ug/l
RT: 11.341 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 91 Resp: 444975

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.5	34.5

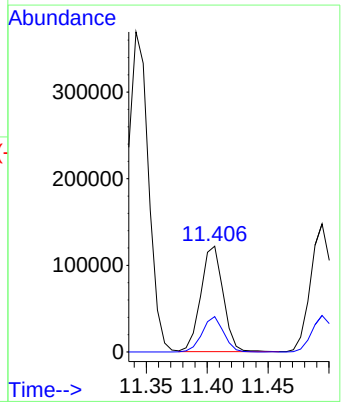




#79
2-Chlorotoluene
Concen: 50.47 ug/l
RT: 11.406 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

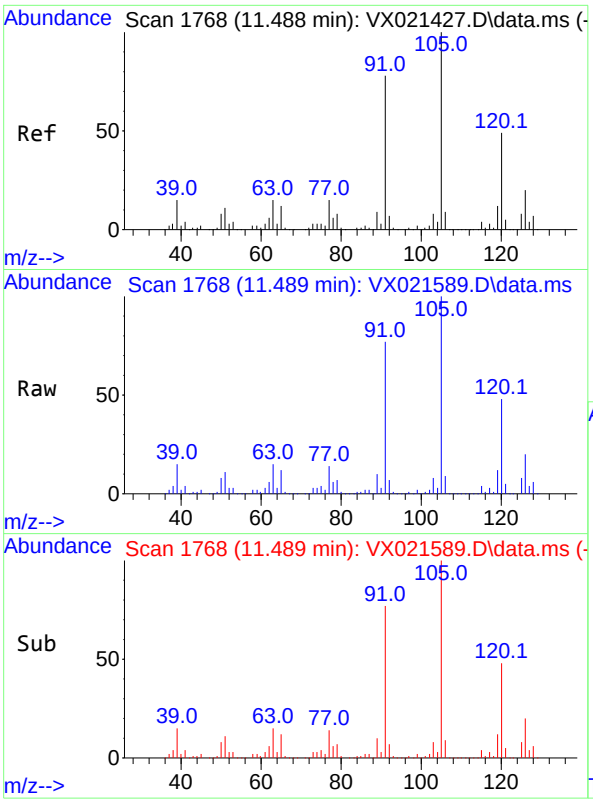
Tgt Ion: 91 Resp: 154661

Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.6	49.8



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

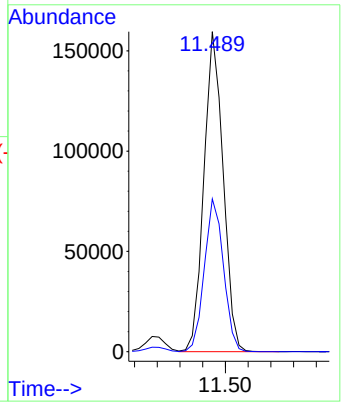
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

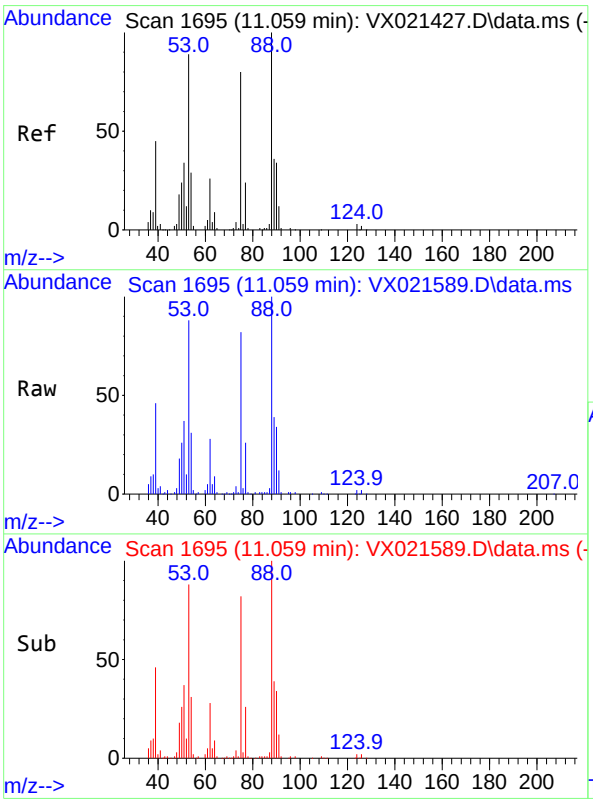


#80
1,3,5-Trimethylbenzene
Concen: 51.24 ug/l
RT: 11.489 min Scan# 1768
Delta R.T. 0.001 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:105 Resp: 187231

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.5

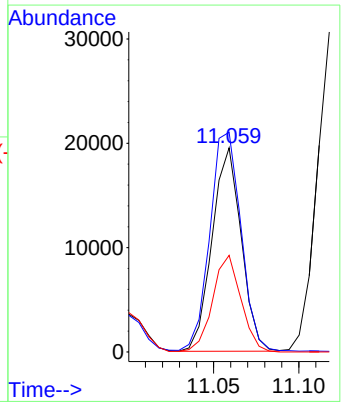




#81
trans-1,4-Dichloro-2-butene
Concen: 49.97 ug/l
RT: 11.059 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

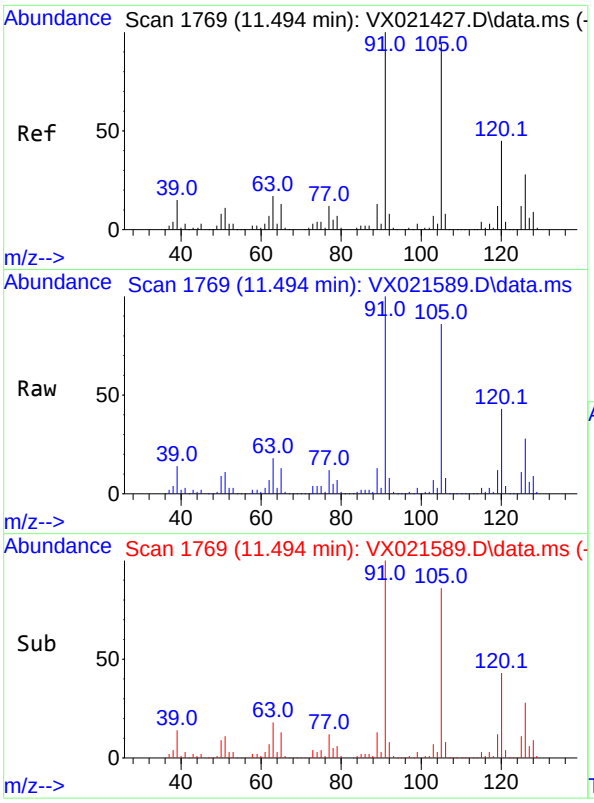
Tgt Ion: 75 Resp: 23249

Ion	Ratio	Lower	Upper
75	100		
53	116.3	74.5	111.7#
89	46.4	37.9	56.9



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

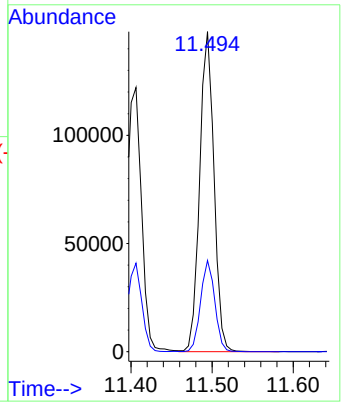
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

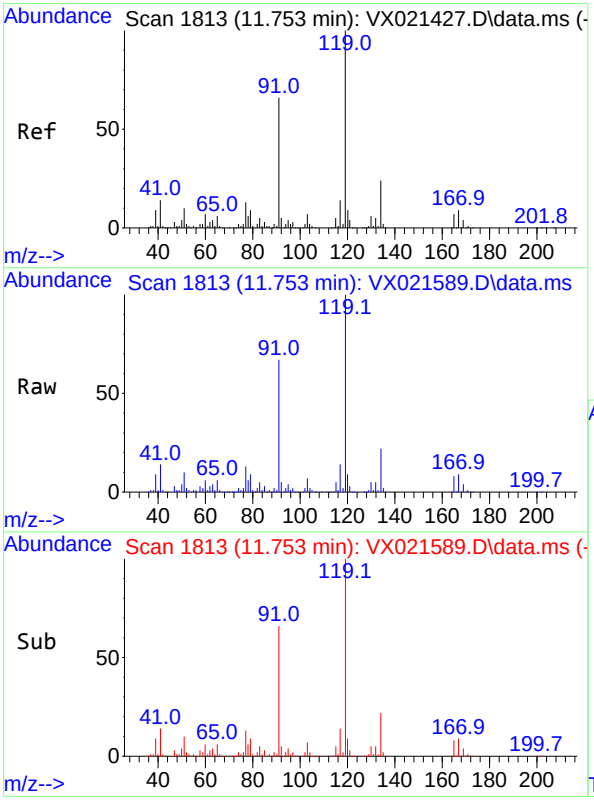


#82
4-Chlorotoluene
Concen: 49.78 ug/l
RT: 11.494 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 91 Resp: 181113

Ion	Ratio	Lower	Upper
91	100		
126	28.1	14.9	44.5

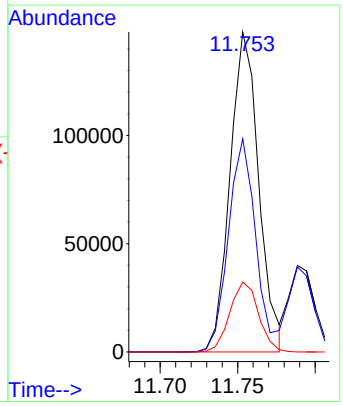




#83
tert-Butylbenzene
Concen: 53.58 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

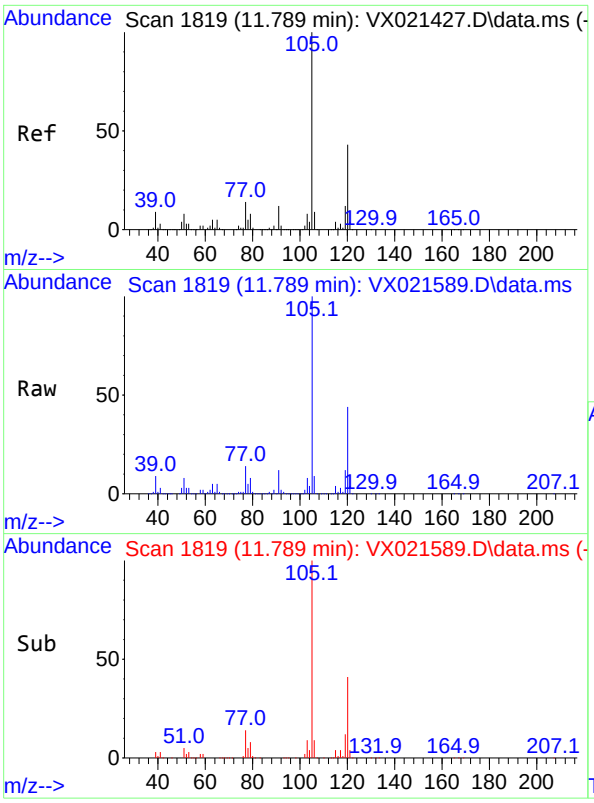
Tgt Ion:119 Resp: 190630

Ion	Ratio	Lower	Upper
119	100		
91	62.0	27.9	83.7
134	21.8	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

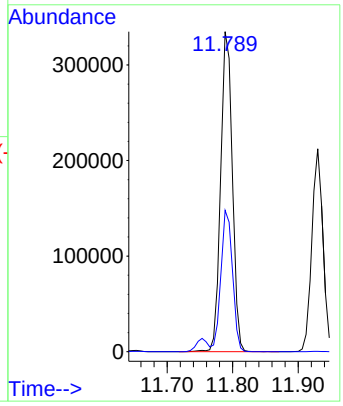
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

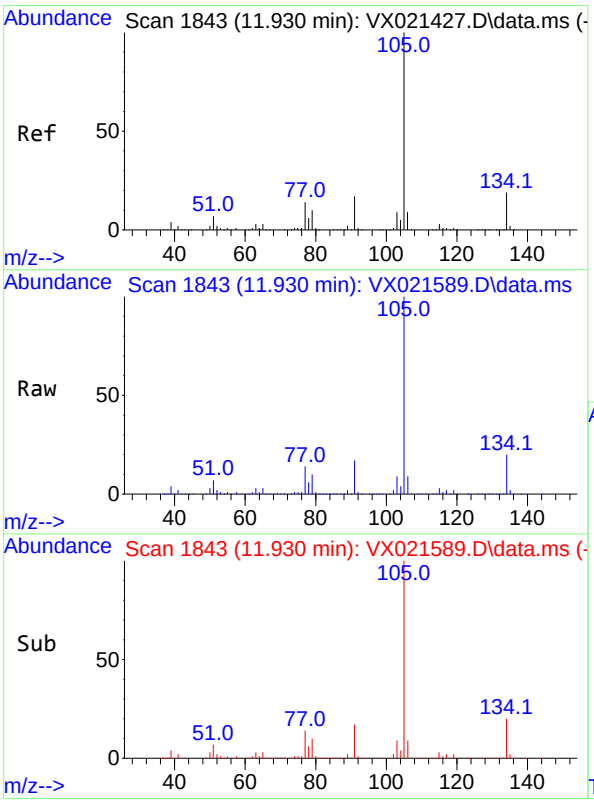


#84
1,2,4-Trimethylbenzene
Concen: 111.80 ug/l
RT: 11.789 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:105 Resp: 411854

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.4	67.3

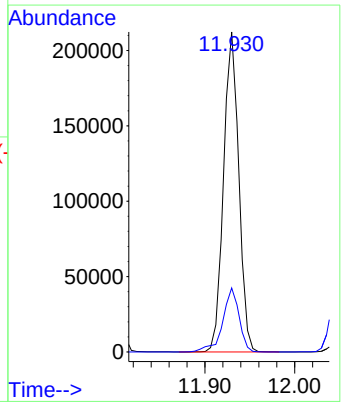




#85
sec-Butylbenzene
Concen: 60.85 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

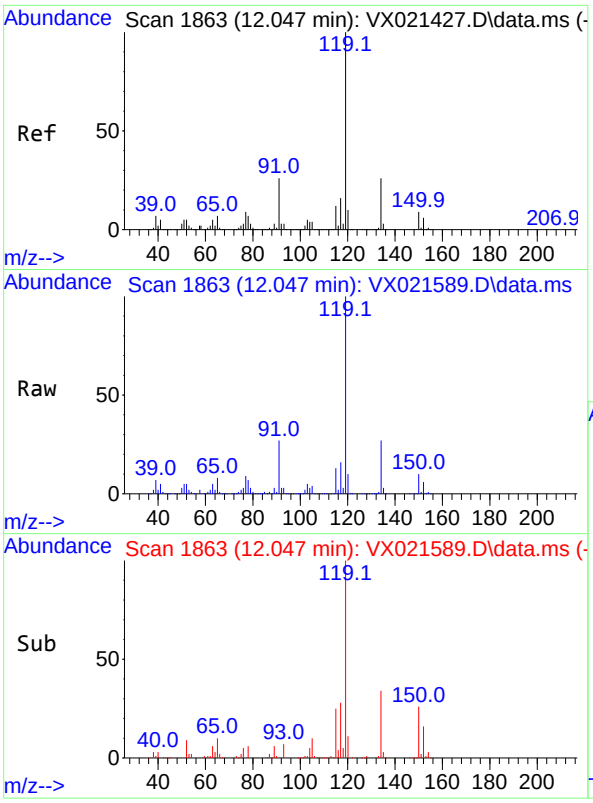
Tgt Ion:105 Resp: 249721

Ion	Ratio	Lower	Upper
105	100		
134	21.6	10.0	29.8



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

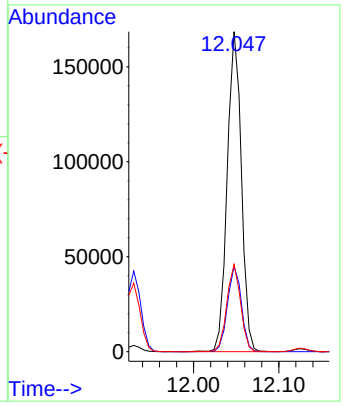
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

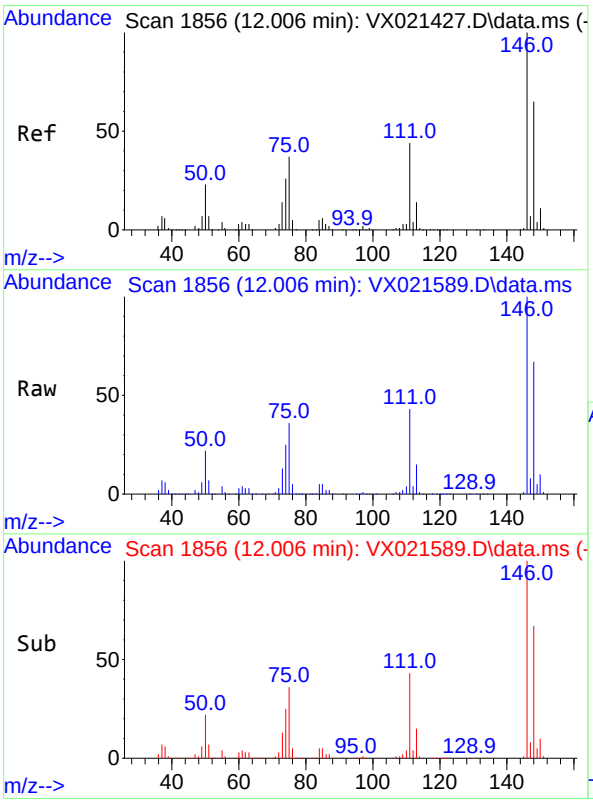


#86
p-Isopropyltoluene
Concen: 51.93 ug/l
RT: 12.047 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:119 Resp: 193995

Ion	Ratio	Lower	Upper
119	100		
134	26.3	12.9	38.7
91	26.5	11.7	35.0

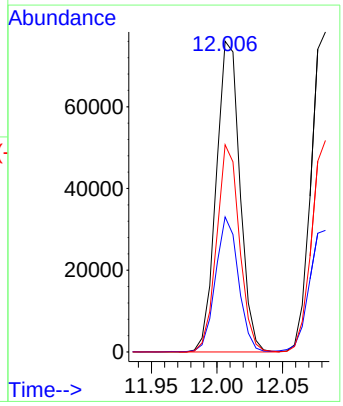




#87
1,3-Dichlorobenzene
Concen: 49.90 ug/l
RT: 12.006 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

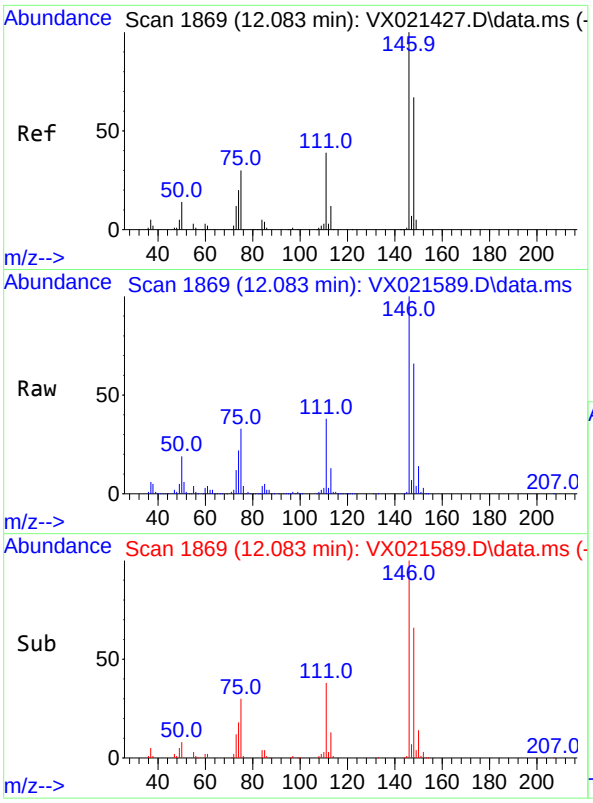
Tgt Ion:146 Resp: 95276

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.2	60.5
148	64.4	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

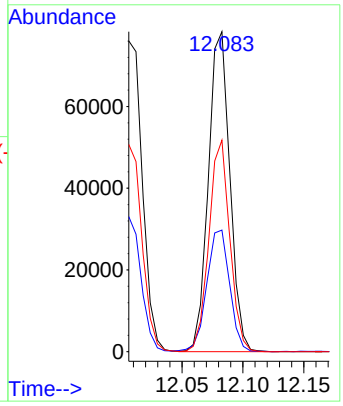
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

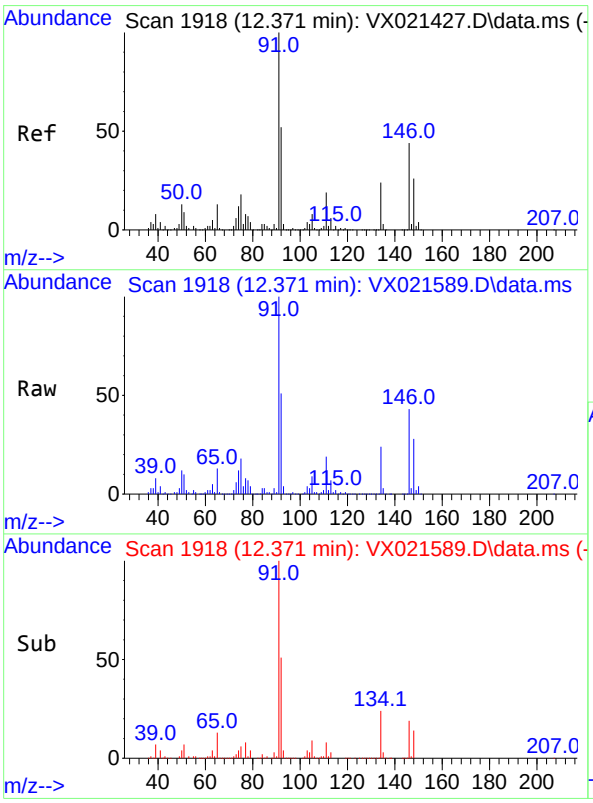


#88
1,4-Dichlorobenzene
Concen: 48.67 ug/l
RT: 12.083 min Scan# 1869
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:146 Resp: 96129

Ion	Ratio	Lower	Upper
146	100		
111	40.5	19.6	58.8
148	64.3	31.6	95.0

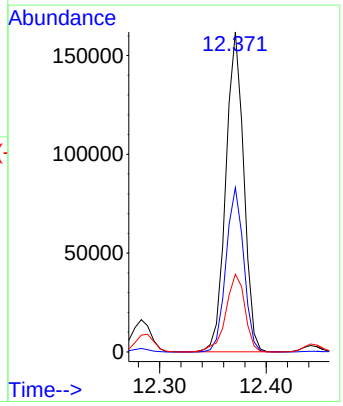




#89
n-Butylbenzene
Concen: 55.29 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

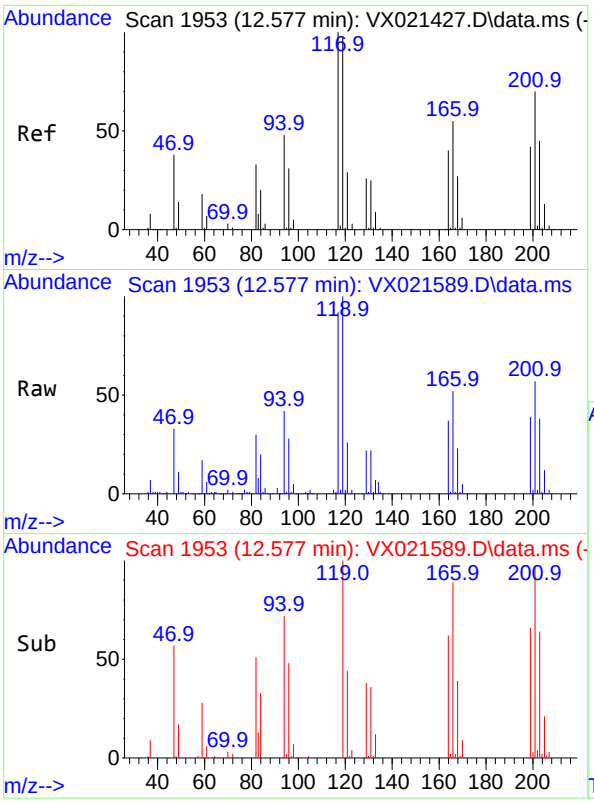
Tgt Ion: 91 Resp: 189224

Ion	Ratio	Lower	Upper
91	100		
92	50.8	27.4	82.0
134	26.0	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

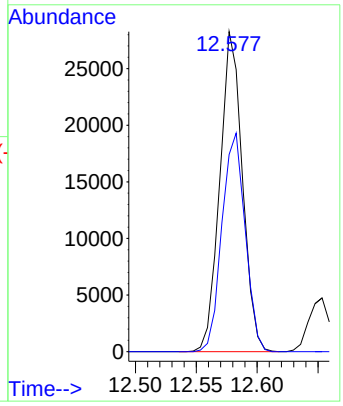
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

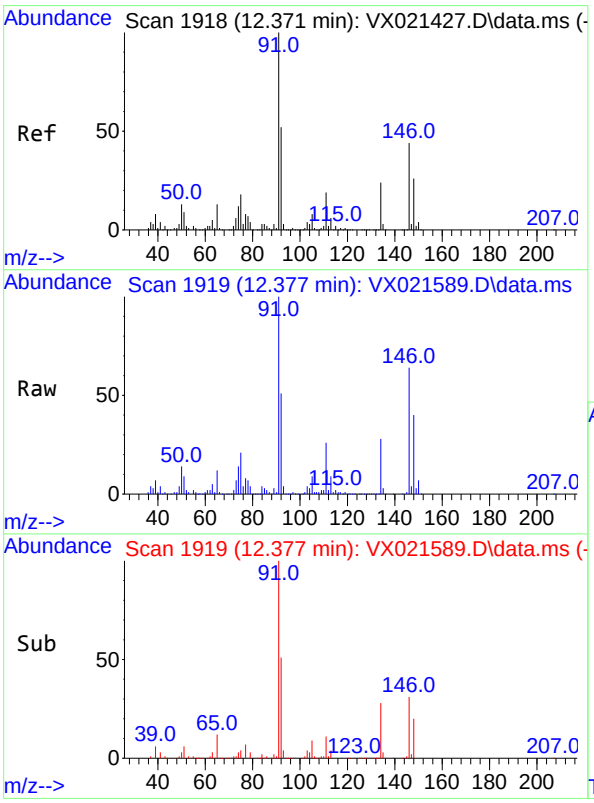


#90
Hexachloroethane
Concen: 54.11 ug/l
RT: 12.577 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:117 Resp: 36484

Ion	Ratio	Lower	Upper
117	100		
201	70.2	40.4	121.2

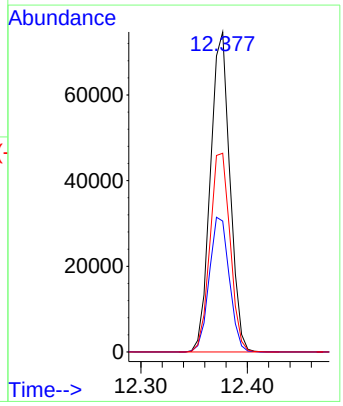




#91
1,2-Dichlorobenzene
Concen: 51.08 ug/l
RT: 12.377 min Scan# 1919
Delta R.T. 0.006 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

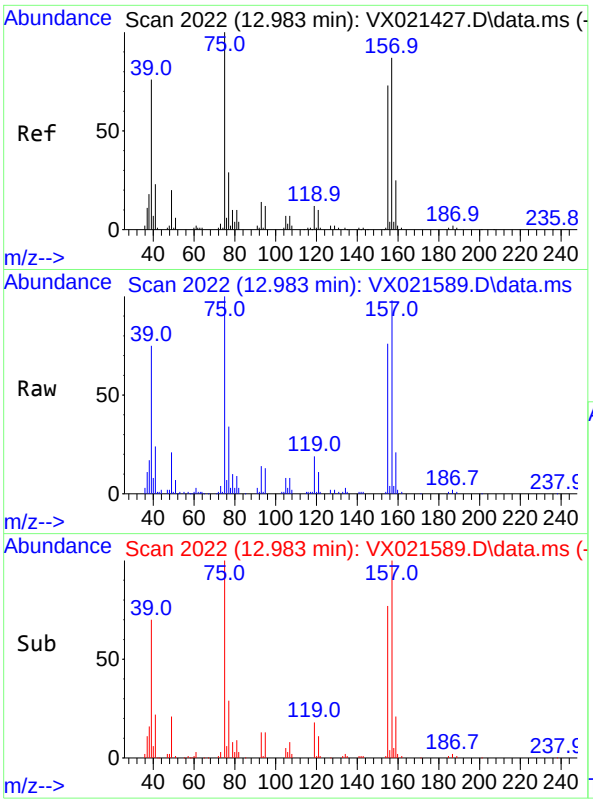
Tgt Ion:146 Resp: 94819

Ion	Ratio	Lower	Upper
146	100		
111	43.3	20.8	62.2
148	64.1	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

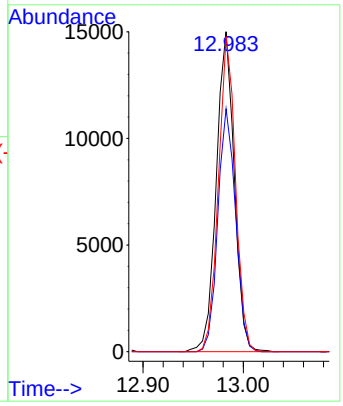
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

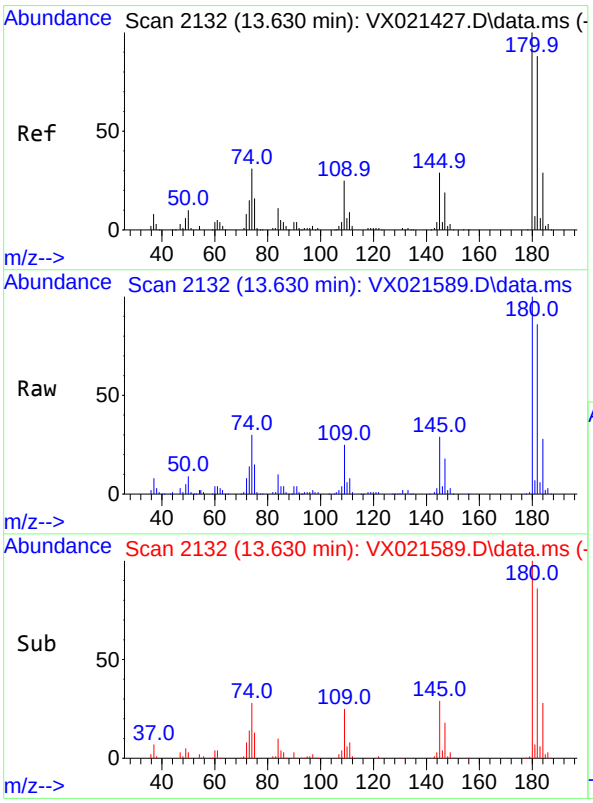


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.94 ug/l
RT: 12.983 min Scan# 2022
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion: 75 Resp: 18624

Ion	Ratio	Lower	Upper
75	100		
155	75.0	45.3	135.9
157	93.5	57.7	173.1

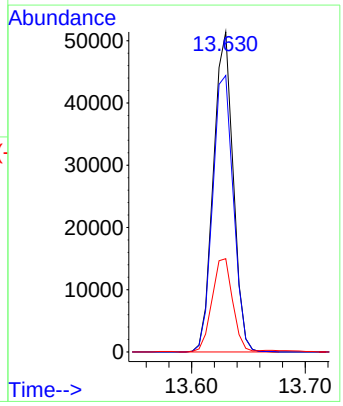




#93
1,2,4-Trichlorobenzene
Concen: 51.17 ug/l
RT: 13.630 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

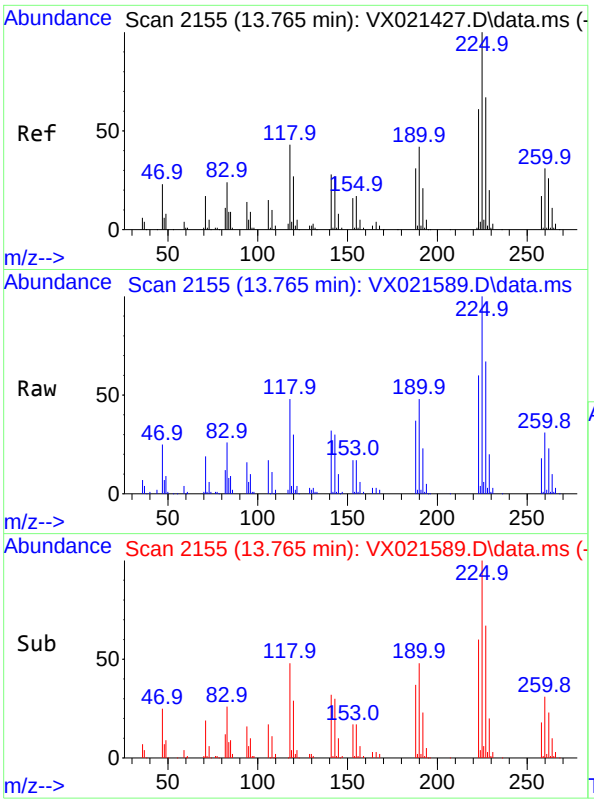
Tgt Ion:180 Resp: 62266

Ion	Ratio	Lower	Upper
180	100		
182	90.6	47.7	143.1
145	30.6	15.0	45.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

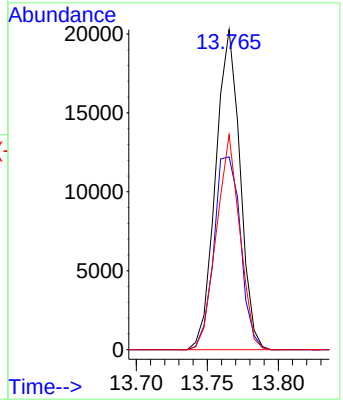
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM

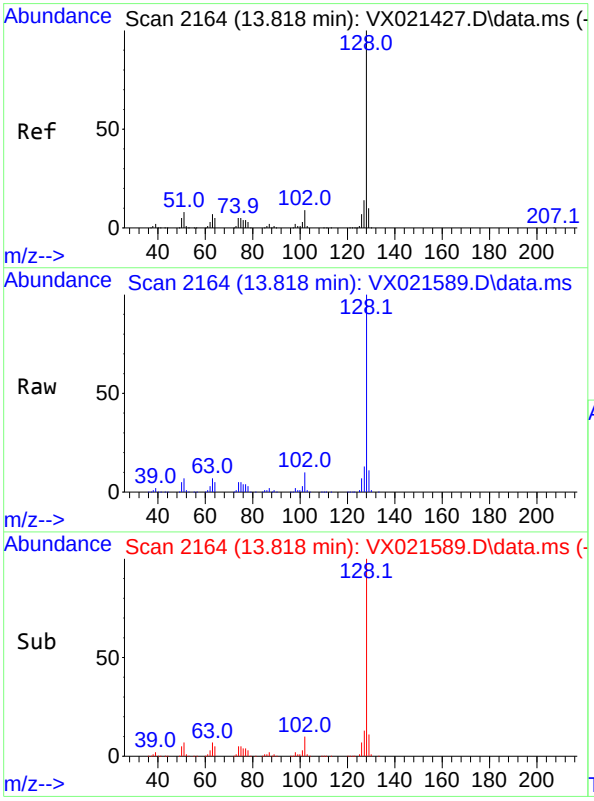


#94
Hexachlorobutadiene
Concen: 44.05 ug/l
RT: 13.765 min Scan# 2155
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:225 Resp: 24193

Ion	Ratio	Lower	Upper
225	100		
223	65.9	31.1	93.2
227	64.5	31.6	95.0

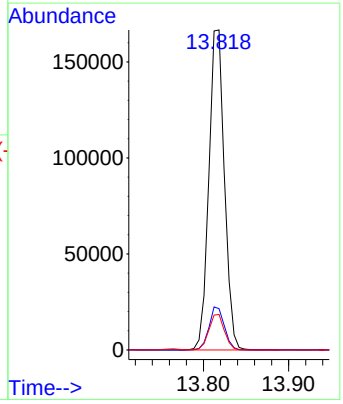




#95
Naphthalene
Concen: 53.38 ug/l
RT: 13.818 min Scan# 2164
Delta R.T. 0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

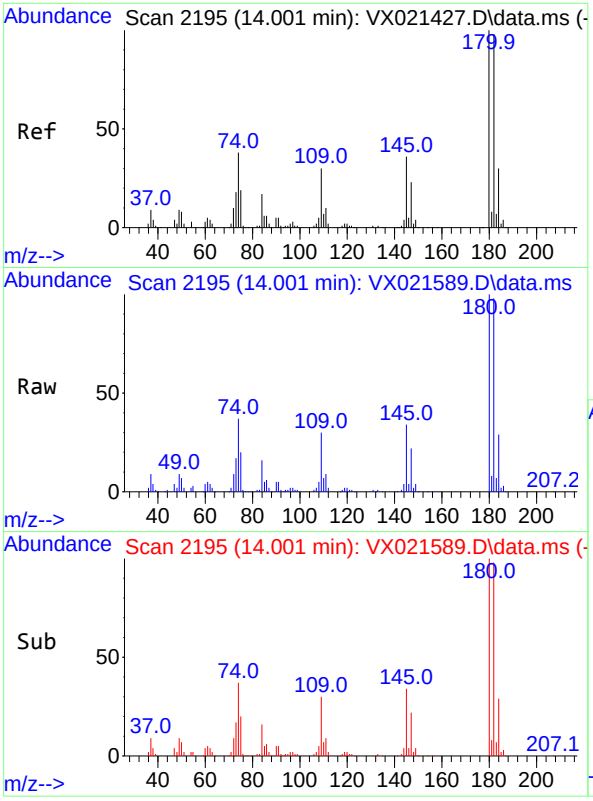
Tgt Ion:128 Resp: 211826

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	11.2	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MS

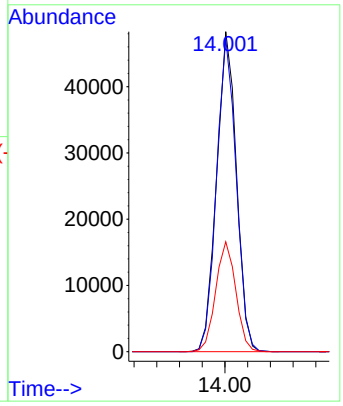
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:51 AM



#96
1,2,3-Trichlorobenzene
Concen: 48.22 ug/l
RT: 14.001 min Scan# 2195
Delta R.T. -0.000 min
Lab File: VX021589.D
Acq: 29 Mar 2021 19:57

Tgt Ion:180 Resp: 58650

Ion	Ratio	Lower	Upper
180	100		
182	97.2	47.6	142.9
145	34.9	16.1	48.3



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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-1MSD	SDG No.:	M1785
Lab Sample ID:	M1785-12MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021590.D	10		03/29/21 20:21	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	470		2.30	10.0	ug/L
74-87-3	Chloromethane	470		2.00	10.0	ug/L
75-01-4	Vinyl Chloride	500		1.90	10.0	ug/L
74-83-9	Bromomethane	560		8.70	50.0	ug/L
75-00-3	Chloroethane	490		3.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	500		2.50	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	490		2.10	10.0	ug/L
75-35-4	1,1-Dichloroethene	470		2.60	10.0	ug/L
67-64-1	Acetone	2500		16.1	50.0	ug/L
75-15-0	Carbon Disulfide	420		2.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	500		2.20	10.0	ug/L
79-20-9	Methyl Acetate	550		4.70	10.0	ug/L
75-09-2	Methylene Chloride	480		1.80	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	470		1.90	10.0	ug/L
75-34-3	1,1-Dichloroethane	500		2.10	10.0	ug/L
110-82-7	Cyclohexane	480		13.0	50.0	ug/L
78-93-3	2-Butanone	2600		9.00	50.0	ug/L
56-23-5	Carbon Tetrachloride	490		2.70	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	490		2.20	10.0	ug/L
74-97-5	Bromochloromethane	510		2.60	10.0	ug/L
67-66-3	Chloroform	510		2.70	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	500		2.00	10.0	ug/L
108-87-2	Methylcyclohexane	450		1.40	10.0	ug/L
71-43-2	Benzene	480		1.80	10.0	ug/L
107-06-2	1,2-Dichloroethane	490		2.50	10.0	ug/L
79-01-6	Trichloroethene	480		1.70	10.0	ug/L
78-87-5	1,2-Dichloropropane	490		1.70	10.0	ug/L
75-27-4	Bromodichloromethane	490		2.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	2600		8.70	50.0	ug/L
108-88-3	Toluene	500		2.20	10.0	ug/L
10061-02-6	t-1,3-Dichloropropene	490		1.80	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	480		1.70	10.0	ug/L

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-1MSD	SDG No.:	M1785
Lab Sample ID:	M1785-12MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021590.D	10		03/29/21 20:21	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	500		2.40	10.0	ug/L
591-78-6	2-Hexanone	2600		9.20	50.0	ug/L
124-48-1	Dibromochloromethane	510		1.80	10.0	ug/L
106-93-4	1,2-Dibromoethane	500		1.60	10.0	ug/L
127-18-4	Tetrachloroethene	490		1.70	10.0	ug/L
108-90-7	Chlorobenzene	490		1.70	10.0	ug/L
100-41-4	Ethyl Benzene	500		1.80	10.0	ug/L
1330-20-7	Total Xylenes	1510		5.10	30.0	ug/L
100-42-5	Styrene	500		1.60	10.0	ug/L
75-25-2	Bromoform	520		1.90	10.0	ug/L
98-82-8	Isopropylbenzene	730		2.30	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	500		2.90	10.0	ug/L
103-65-1	n-propylbenzene	870		2.40	10.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	510		2.50	10.0	ug/L
98-06-6	tert-Butylbenzene	530		2.60	10.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	1100		2.00	10.0	ug/L
135-98-8	sec-Butylbenzene	600		2.30	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	500		1.90	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	480		2.00	10.0	ug/L
104-51-8	n-Butylbenzene	550		1.90	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	500		1.90	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	480		4.70	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	480		3.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	480		3.50	10.0	ug/L
123-91-1	1,4-Dioxane	10300		69.8	1000	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		78 - 117	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	51.5		92 - 112	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		83 - 123	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	78200	5.629			
540-36-3	1,4-Difluorobenzene	134000	6.829			

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Report of Analysis

Client:	Chazen Companies	Date Collected:	03/23/21
Project:	Ebenzer Plaza-1 - 20918.10	Date Received:	03/23/21
Client Sample ID:	MW-1MSD	SDG No.:	M1785
Lab Sample ID:	M1785-12MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021590.D	10		03/29/21 20:21	VX032921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
3114-55-4	Chlorobenzene-d5	126000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	62500	12.059			

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_X\Data\VX032921\
Data File : VX021590.D
Acq On : 29 Mar 2021 20:21
Operator : JC/MD
Sample : M1785-12MSD 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : MW-1MSD

Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

Quant Time: Mar 30 03:32:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.629	168	78212	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.829	114	133786	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.094	117	126299	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	62506	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.029	65	68651	52.75	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 105.50%				
35) Dibromofluoromethane	5.464	113	48404	50.93	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.86%				
50) Toluene-d8	8.694	98	174489	51.53	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.06%				
62) 4-Bromofluorobenzene	11.118	95	68823	52.27	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.54%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.181	85	40698	47.34	ug/l		98
3) Chloromethane	1.311	50	46662	47.22	ug/l		98
4) Vinyl Chloride	1.393	62	44001	50.04	ug/l		100
5) Bromomethane	1.622	94	19647	55.52	ug/l		95
6) Chloroethane	1.699	64	27541	49.39	ug/l		100
7) Trichlorofluoromethane	1.905	101	71053	49.68	ug/l		95
8) Diethyl Ether	2.170	74	24805	49.98	ug/l		78
9) 1,1,2-Trichlorotrifluo...	2.358	101	39243	48.75	ug/l		97
10) Methyl Iodide	2.487	142	34810	54.66	ug/l	#	89
11) Tert butyl alcohol	3.023	59	54297	252.38	ug/l		97
12) 1,1-Dichloroethene	2.352	96	37296	47.32	ug/l		88
13) Acrolein	2.275	56	17861	166.06	ug/l		96
14) Allyl chloride	2.705	41	76725	47.96	ug/l	#	89
15) Acrylonitrile	3.117	53	131304	256.81	ug/l		97
16) Acetone	2.422	43	122943	249.86	ug/l	#	86
17) Carbon Disulfide	2.546	76	94022	42.48	ug/l		98
18) Methyl Acetate	2.746	43	78622	55.31	ug/l		90
19) Methyl tert-butyl Ether	3.170	73	148316	50.39	ug/l		99
20) Methylene Chloride	2.828	84	45839	47.74	ug/l	#	86
21) trans-1,2-Dichloroethene	3.134	96	40805	47.13	ug/l		91
22) Diisopropyl ether	3.823	45	157793	50.76	ug/l	#	94
23) Vinyl Acetate	3.781	43	658893	250.61	ug/l	#	92
24) 1,1-Dichloroethane	3.664	63	83017	49.54	ug/l		96
25) 2-Butanone	4.635	43	191740	257.07	ug/l		91
26) 2,2-Dichloropropane	4.546	77	63370	43.65	ug/l		96
27) cis-1,2-Dichloroethene	4.558	96	49479	49.22	ug/l		93
28) Bromochloromethane	4.976	49	42858	51.09	ug/l		87
29) Tetrahydrofuran	5.088	42	122106	252.49	ug/l		86
30) Chloroform	5.176	83	90051	50.92	ug/l		99
31) Cyclohexane	5.546	56	68816	48.09	ug/l		94
32) 1,1,1-Trichloroethane	5.458	97	79108	50.48	ug/l		97
36) 1,1-Dichloropropene	5.764	75	61703	47.07	ug/l		96
37) Ethyl Acetate	4.793	43	71006	46.85	ug/l	#	93
38) Carbon Tetrachloride	5.746	117	69406	49.27	ug/l		98
39) Methylcyclohexane	7.435	83	65842	45.31	ug/l		91
40) Benzene	6.111	78	179094	48.11	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021590.D
Acq On : 29 Mar 2021 20:21
Operator : JC/MD
Sample : M1785-12MSD 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 30 03:32:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	5.005	41	41849	47.60	ug/l		89
42) 1,2-Dichloroethane	6.158	62	78533	48.66	ug/l		94
43) Isopropyl Acetate	6.411	43	121138	49.22	ug/l	#	90
44) Trichloroethene	7.188	130	46818	47.66	ug/l		95
45) 1,2-Dichloropropane	7.488	63	49076	48.67	ug/l		96
46) Dibromomethane	7.635	93	35479	48.27	ug/l		92
47) Bromodichloromethane	7.876	83	73771	49.32	ug/l		100
48) Methyl methacrylate	7.747	41	64379	49.04	ug/l	#	83
49) 1,4-Dioxane	7.711	88	24092	1025.01	ug/l	#	89
51) 4-Methyl-2-Pentanone	8.617	43	390991	258.28	ug/l		88
52) Toluene	8.765	92	114366	49.74	ug/l		99
53) t-1,3-Dichloropropene	9.023	75	74599	49.39	ug/l		98
54) cis-1,3-Dichloropropene	8.412	75	77542	48.25	ug/l	#	84
55) 1,1,2-Trichloroethane	9.194	97	48656	50.14	ug/l		98
56) Ethyl methacrylate	9.159	69	75245	46.08	ug/l	#	76
57) 1,3-Dichloropropane	9.353	76	81875	49.30	ug/l		100
59) 2-Hexanone	9.470	43	301146	264.93	ug/l		84
60) Dibromochloromethane	9.565	129	55375	50.95	ug/l		98
61) 1,2-Dibromoethane	9.653	107	52101	49.98	ug/l		99
64) Tetrachloroethene	9.318	164	41551	49.11	ug/l		93
65) Chlorobenzene	10.124	112	124401	49.03	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.206	131	49790	51.21	ug/l		98
67) Ethyl Benzene	10.235	91	231805	50.12	ug/l		99
68) m/p-Xylenes	10.341	106	166292	100.93	ug/l		91
69) o-Xylene	10.682	106	80942	50.72	ug/l		96
70) Styrene	10.694	104	137003	49.92	ug/l		95
71) Bromoform	10.841	173	40963	51.85	ug/l	#	97
73) Isopropylbenzene	11.000	105	319065	72.65	ug/l		100
74) N-amyl acetate	10.882	43	106130	49.94	ug/l	#	89
75) 1,1,2,2-Tetrachloroethane	11.253	83	78037	50.29	ug/l		99
76) 1,2,3-Trichloropropane	11.277	75	76105m	52.30	ug/l		
77) Bromobenzene	11.241	156	53955	49.56	ug/l		96
78) n-propylbenzene	11.341	91	450578	86.87	ug/l		99
79) 2-Chlorotoluene	11.406	91	157280	49.99	ug/l		99
80) 1,3,5-Trimethylbenzene	11.488	105	192203	51.22	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.059	75	23305	48.78	ug/l	#	83
82) 4-Chlorotoluene	11.494	91	183217	49.05	ug/l		97
83) tert-Butylbenzene	11.753	119	192441	52.68	ug/l		94
84) 1,2,4-Trimethylbenzene	11.788	105	426289	112.71	ug/l		98
85) sec-Butylbenzene	11.930	105	253761	60.22	ug/l		97
86) p-Isopropyltoluene	12.047	119	194101	50.60	ug/l		96
87) 1,3-Dichlorobenzene	12.006	146	98348	50.17	ug/l		98
88) 1,4-Dichlorobenzene	12.083	146	97747	48.20	ug/l		99
89) n-Butylbenzene	12.371	91	192711	54.84	ug/l		97
90) Hexachloroethane	12.577	117	36417	52.61	ug/l		92
91) 1,2-Dichlorobenzene	12.377	146	95609	50.16	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.983	75	18553	47.54	ug/l		83
93) 1,2,4-Trichlorobenzene	13.630	180	60583	48.49	ug/l		98
94) Hexachlorobutadiene	13.765	225	25982	46.08	ug/l		97
95) Naphthalene	13.812	128	221159	54.28	ug/l		99
96) 1,2,3-Trichlorobenzene	14.000	180	59642	47.76	ug/l		96

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021590.D
Acq On : 29 Mar 2021 20:21
Operator : JC/MD
Sample : M1785-12MSD 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 30 03:32:56 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032421W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 24 12:25:26 2021
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

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

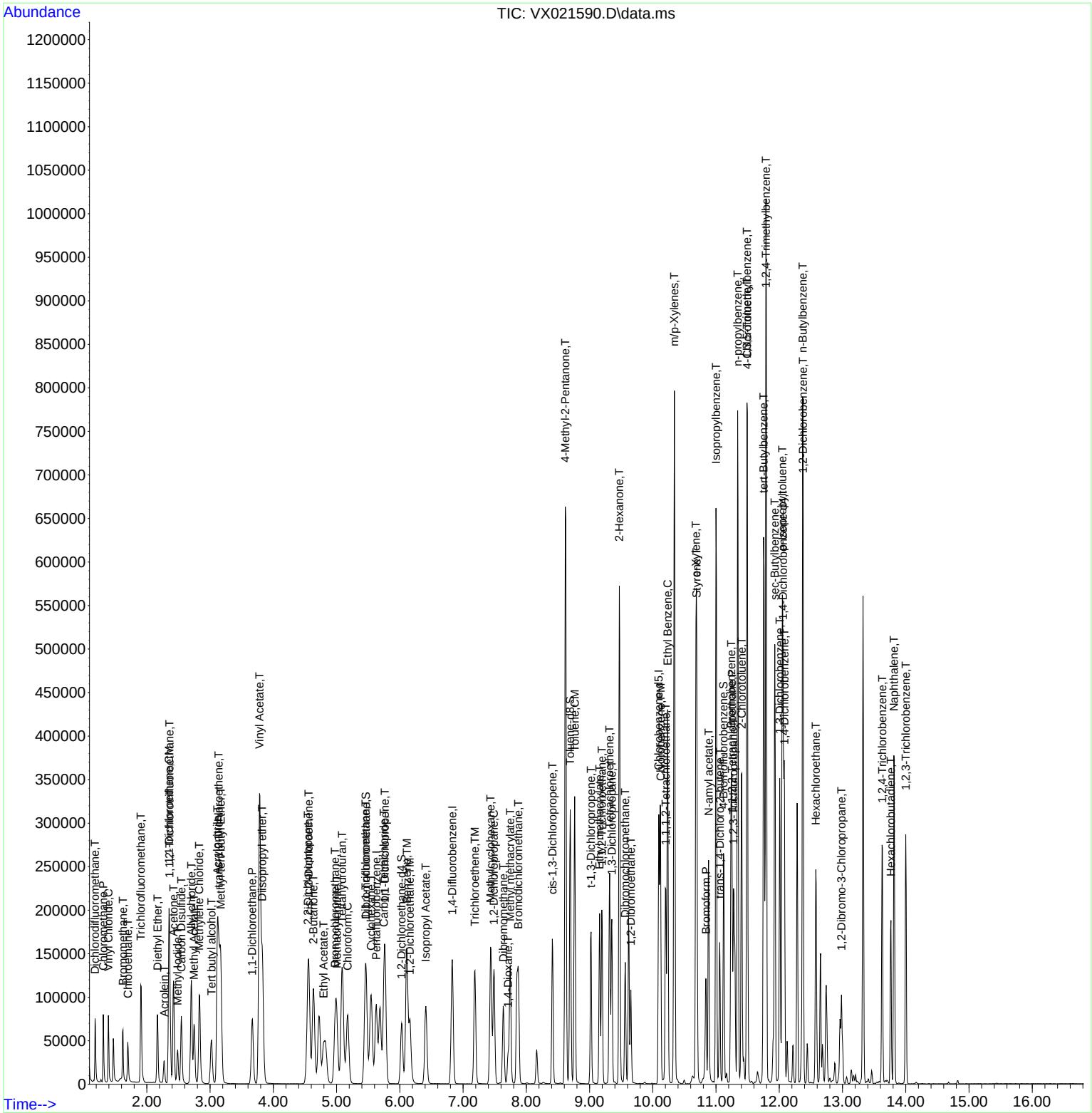
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032921\
Data File : VX021590.D
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Quant Title : SW846 8260
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Response via : Initial Calibration

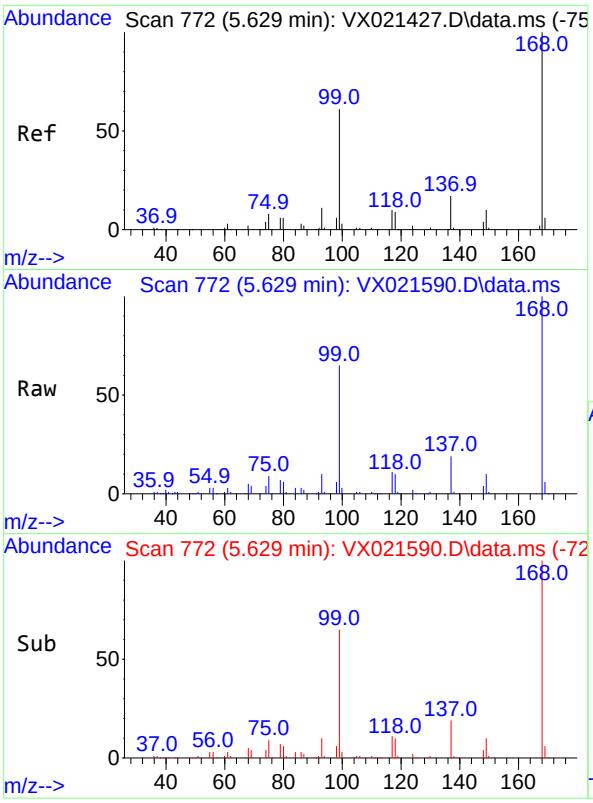
Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

Manual Integrations APPROVED
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3/31/2021 9:58:58 AM



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

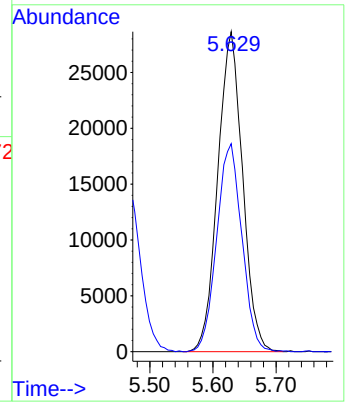
Manual Integrations APPROVED
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3/31/2021 9:58:58 AM

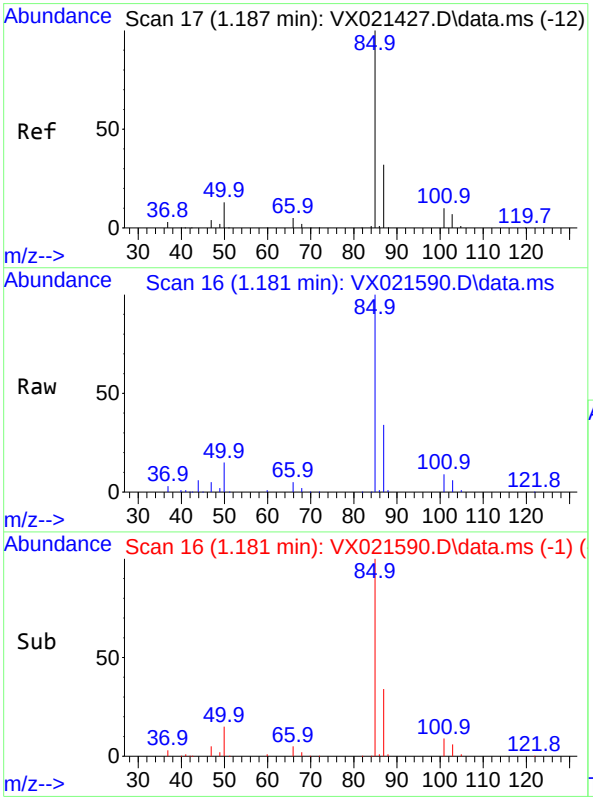


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 772
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:168 Resp: 78212

Ion	Ratio	Lower	Upper
168	100		
99	65.0	45.8	68.6

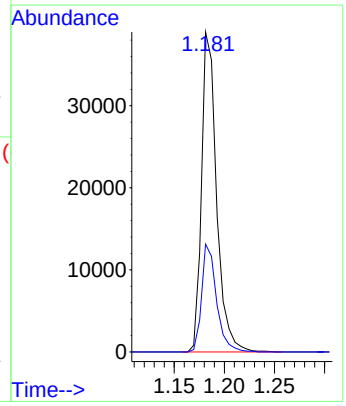




#2
Dichlorodifluoromethane
Concen: 47.34 ug/l
RT: 1.181 min Scan# 16
Delta R.T. -0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

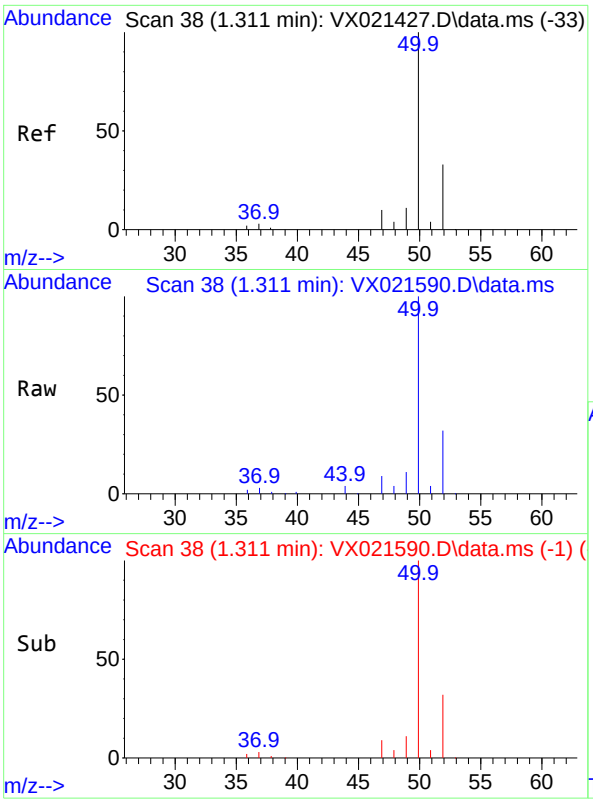
Tgt Ion: 85 Resp: 40698

Ion	Ratio	Lower	Upper
85	100		
87	33.7	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

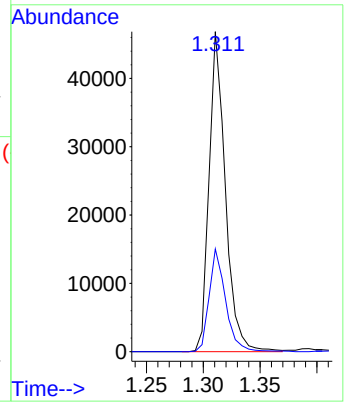
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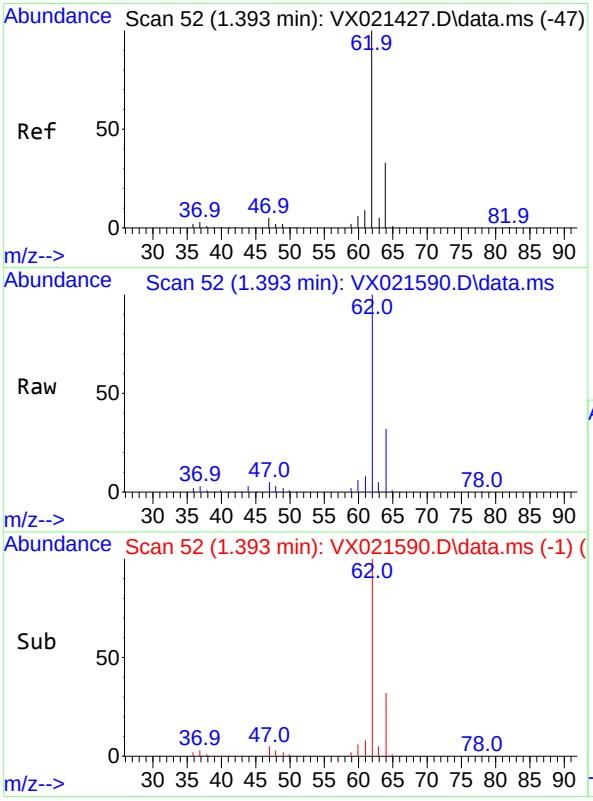


#3
Chloromethane
Concen: 47.22 ug/l
RT: 1.311 min Scan# 38
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 50 Resp: 46662

Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.4	39.6

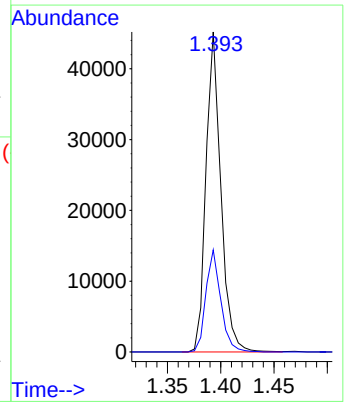




#4
Vinyl Chloride
Concen: 50.04 ug/l
RT: 1.393 min Scan# 52
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

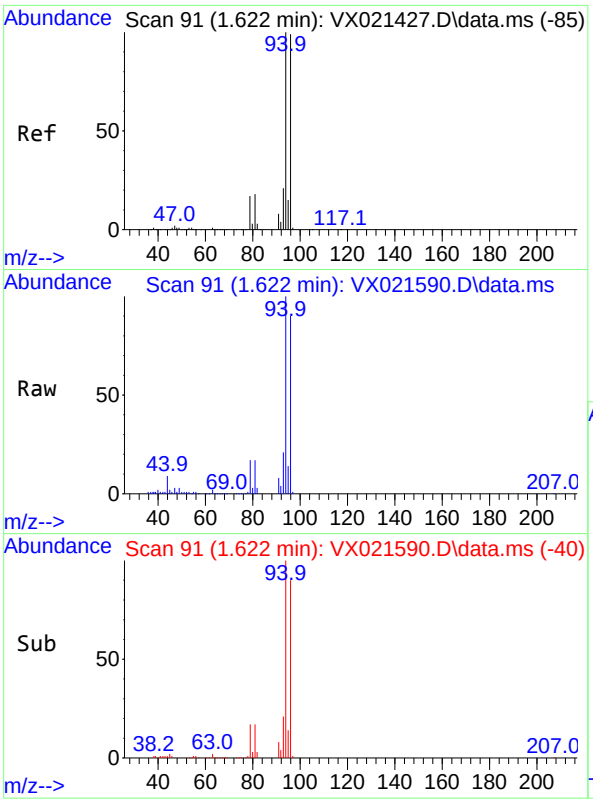
Tgt Ion: 62 Resp: 44001

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

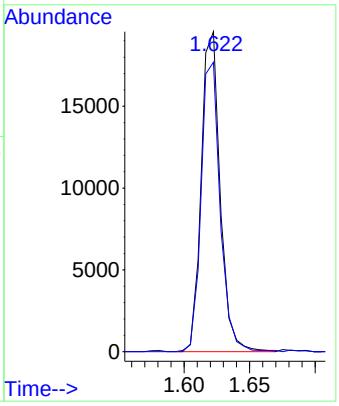
Manual Integrations APPROVED
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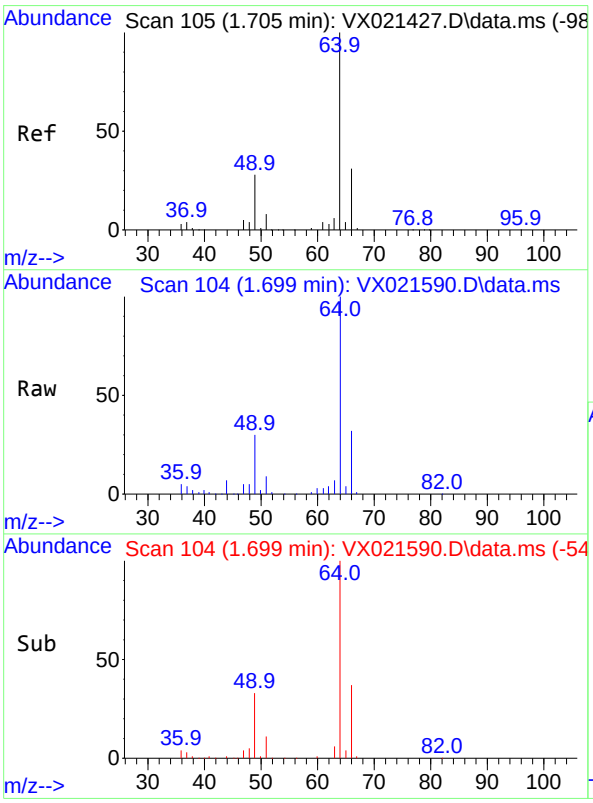


#5
Bromomethane
Concen: 55.52 ug/l
RT: 1.622 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 94 Resp: 19647

Ion	Ratio	Lower	Upper
94	100		
96	90.5	76.4	114.6

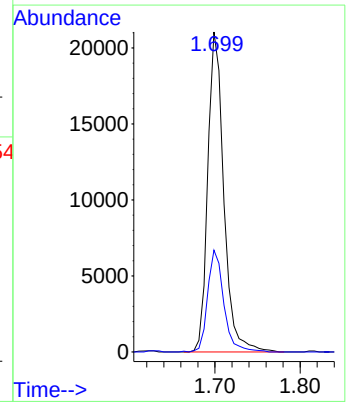




#6
Chloroethane
Concen: 49.39 ug/l
RT: 1.699 min Scan# 104
Delta R.T. -0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

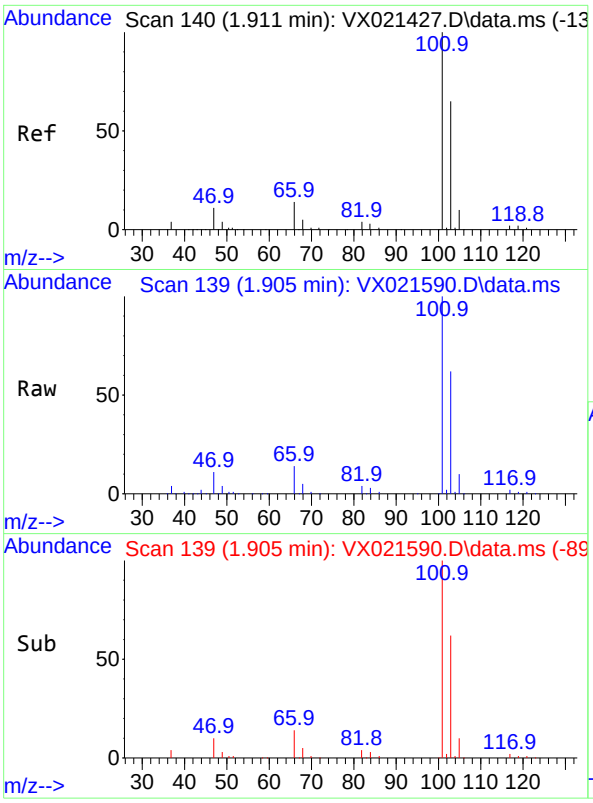
Tgt Ion: 64 Resp: 27541

Ion	Ratio	Lower	Upper
64	100		
66	31.8	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

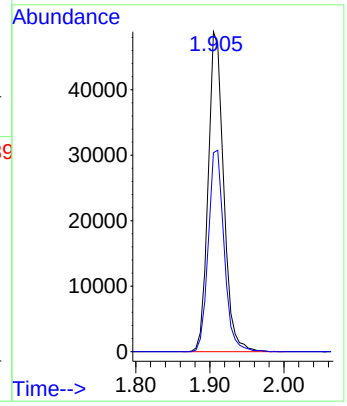
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

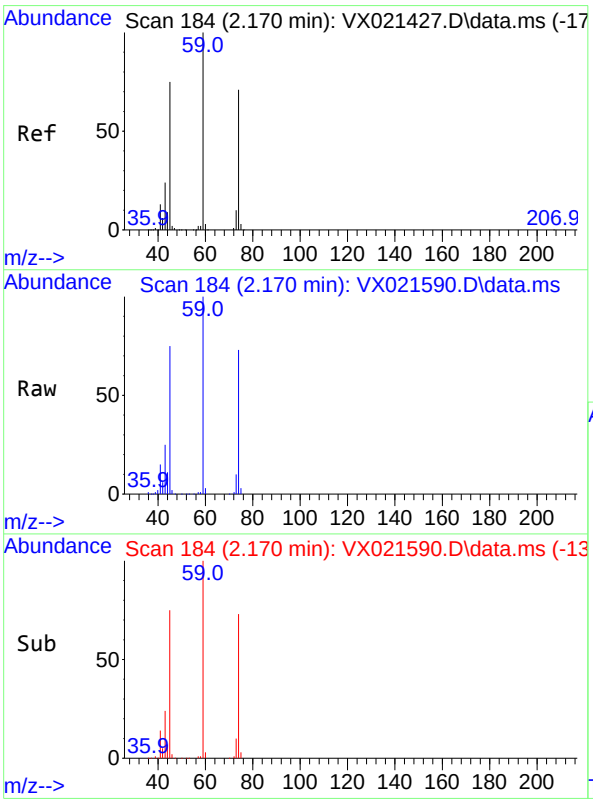


#7
Trichlorofluoromethane
Concen: 49.68 ug/l
RT: 1.905 min Scan# 139
Delta R.T. -0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:101 Resp: 71053

Ion	Ratio	Lower	Upper
101	100		
103	62.2	53.2	79.8

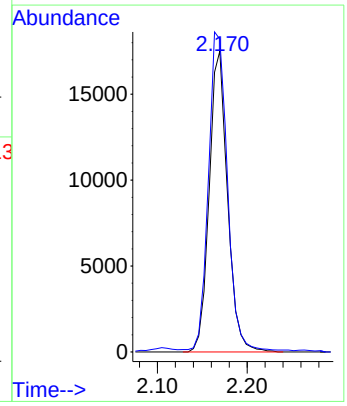




#8
Diethyl Ether
Concen: 49.98 ug/l
RT: 2.170 min Scan# 184
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

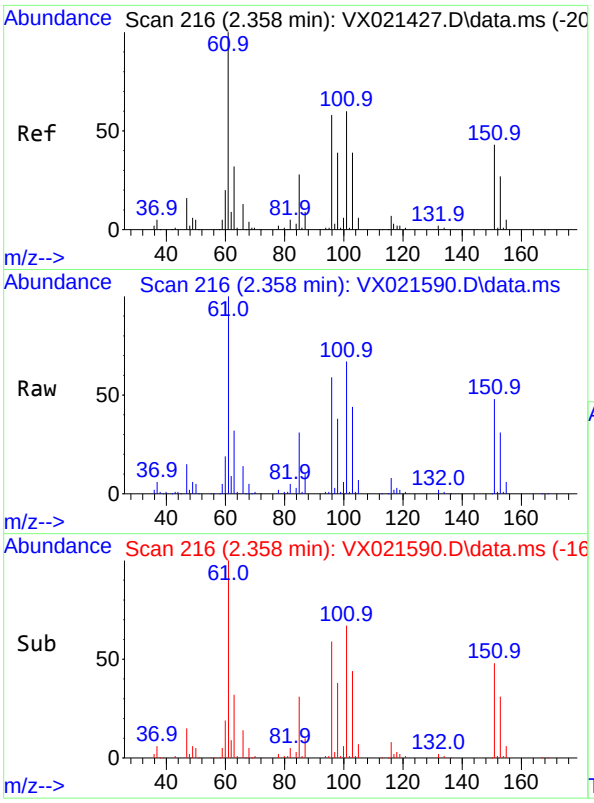
Tgt Ion: 74 Resp: 24805

Ion	Ratio	Lower	Upper
74	100		
45	109.9	44.5	133.5



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

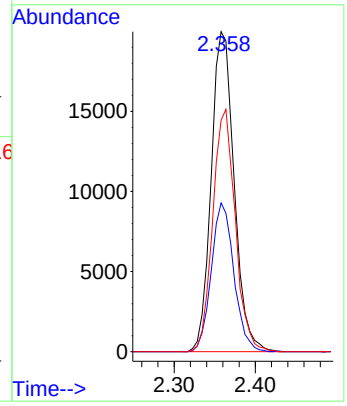
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

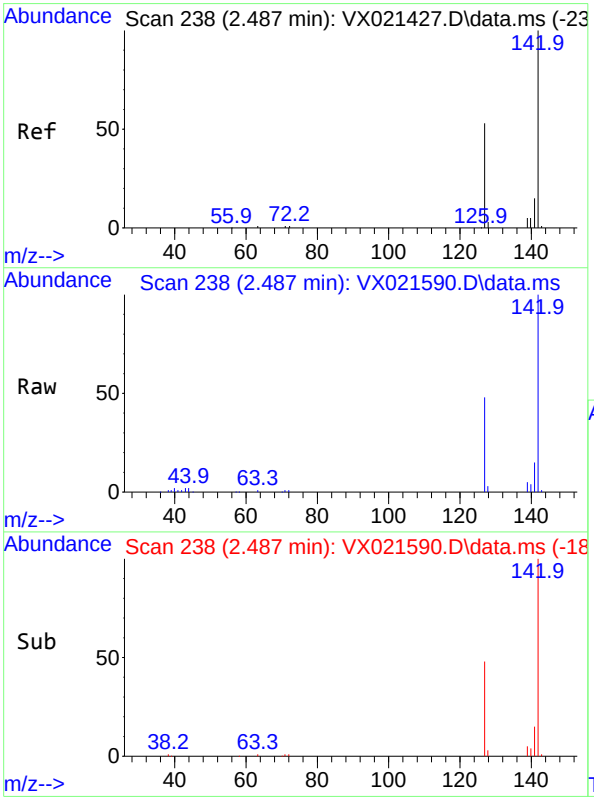


#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.75 ug/l
RT: 2.358 min Scan# 216
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:101 Resp: 39243

Ion	Ratio	Lower	Upper
101	100		
85	45.6	34.9	52.3
151	74.3	61.4	92.2

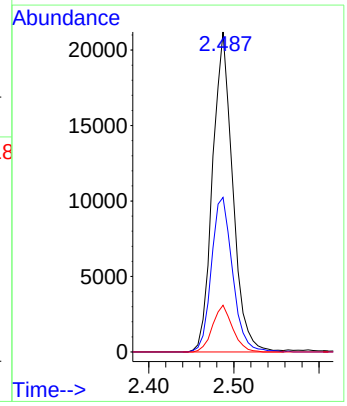




#10
Methyl Iodide
Concen: 54.66 ug/l
RT: 2.487 min Scan# 238
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

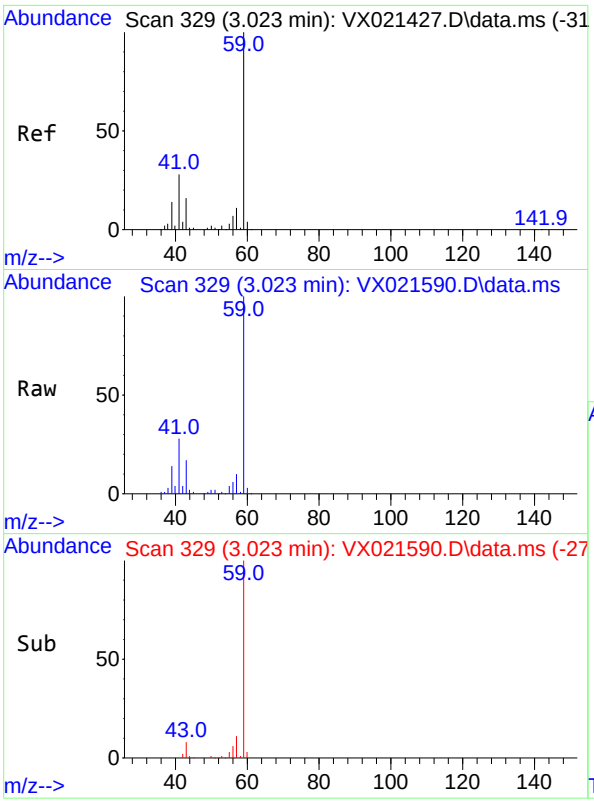
Tgt Ion:142 Resp: 34810

Ion	Ratio	Lower	Upper
142	100		
127	50.7	33.3	49.9#
141	14.5	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

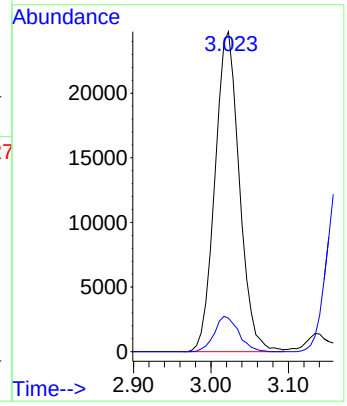
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

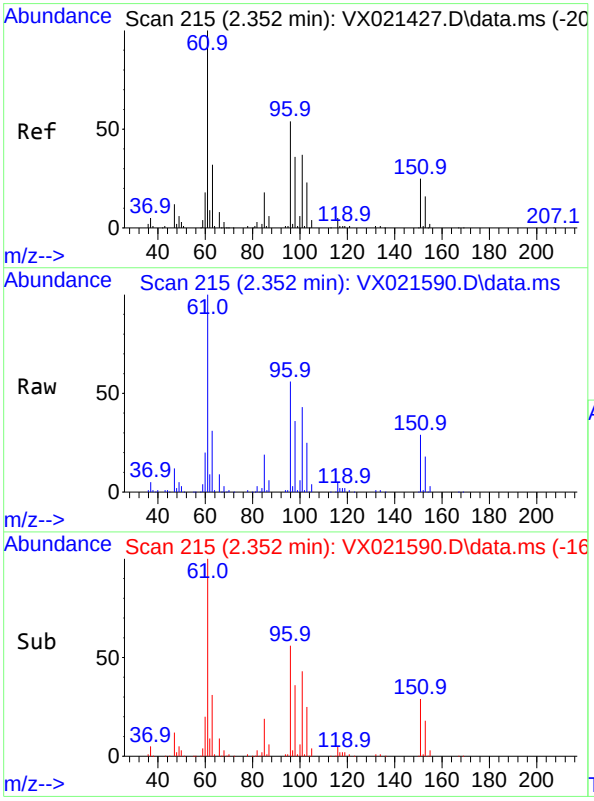


#11
Tert butyl alcohol
Concen: 252.38 ug/l
RT: 3.023 min Scan# 329
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 59 Resp: 54297

Ion	Ratio	Lower	Upper
59	100		
57	11.0	7.8	11.8

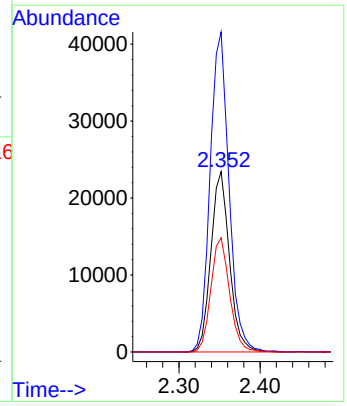




#12
1,1-Dichloroethene
Concen: 47.32 ug/l
RT: 2.352 min Scan# 215
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

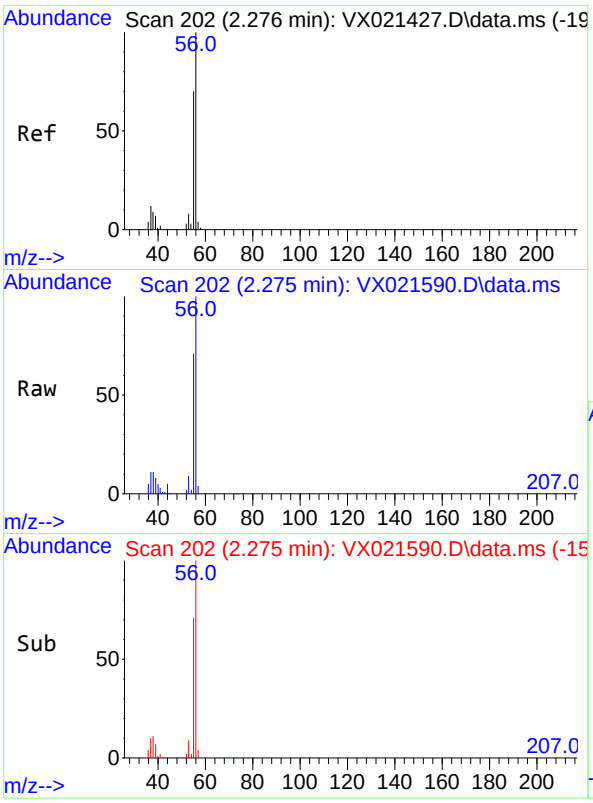
Tgt Ion: 96 Resp: 37296

Ion	Ratio	Lower	Upper
96	100		
61	177.5	124.6	187.0
98	63.4	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

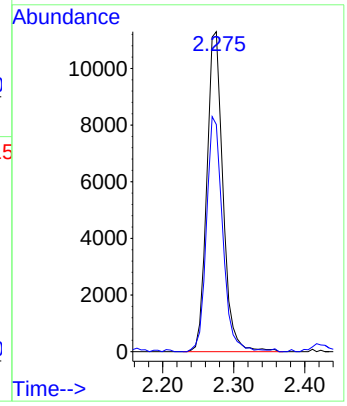
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

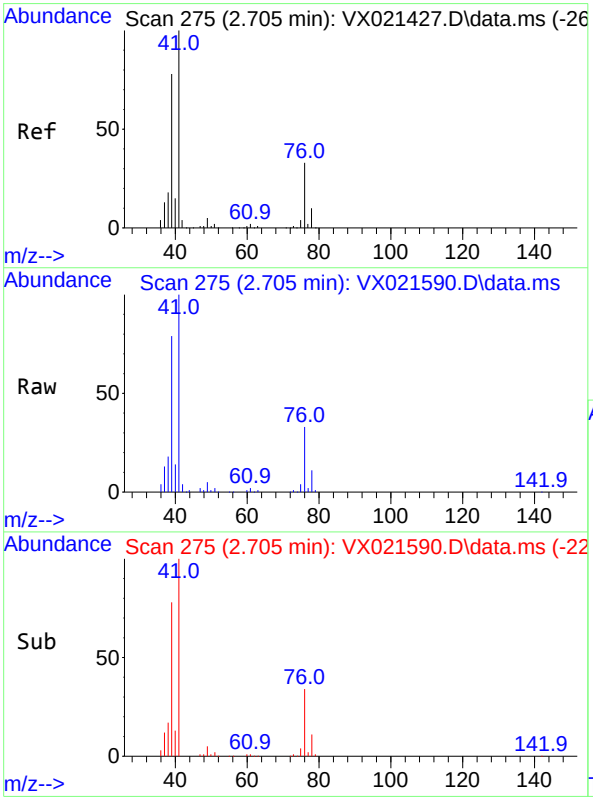


#13
Acrolein
Concen: 166.06 ug/l
RT: 2.275 min Scan# 202
Delta R.T. -0.001 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 56 Resp: 17861

Ion	Ratio	Lower	Upper
56	100		
55	73.8	56.4	84.6

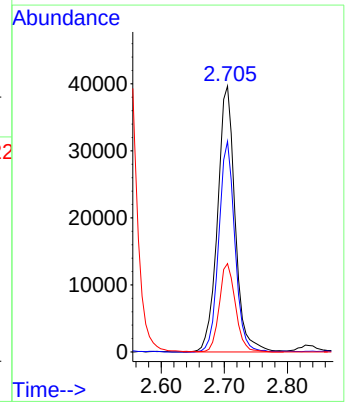




#14
Allyl chloride
Concen: 47.96 ug/l
RT: 2.705 min Scan# 275
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

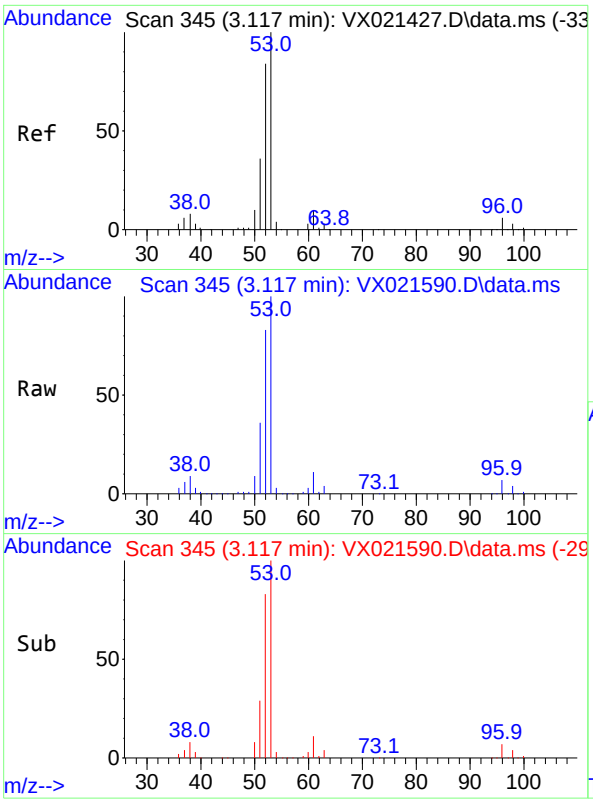
Tgt Ion: 41 Resp: 76725

Ion	Ratio	Lower	Upper
41	100		
39	72.4	51.6	77.4
76	30.4	30.5	45.7#



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

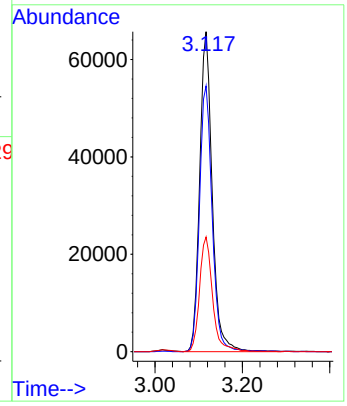
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

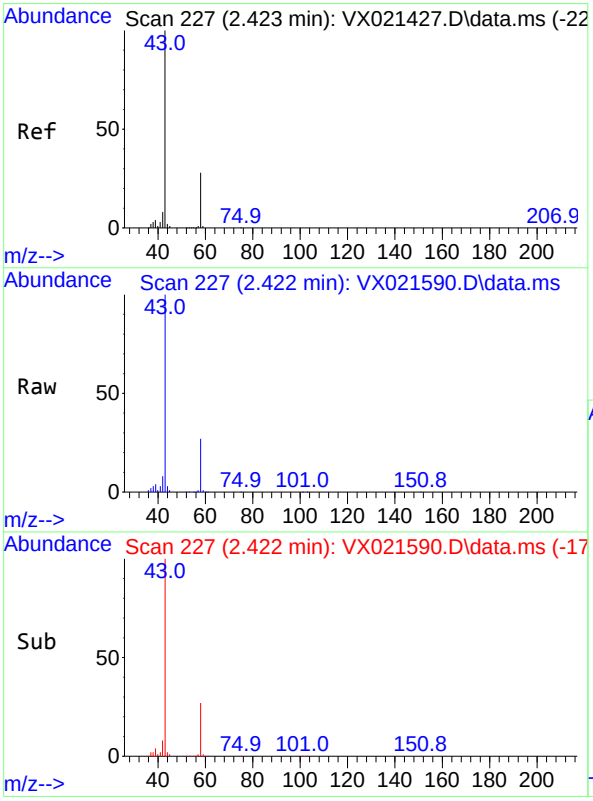


#15
Acrylonitrile
Concen: 256.81 ug/l
RT: 3.117 min Scan# 345
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 53 Resp: 131304

Ion	Ratio	Lower	Upper
53	100		
52	84.0	65.3	97.9
51	37.4	28.2	42.2

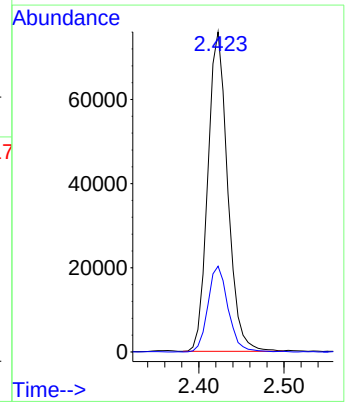




#16
Acetone
Concen: 249.86 ug/l
RT: 2.422 min Scan# 227
Delta R.T. -0.001 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

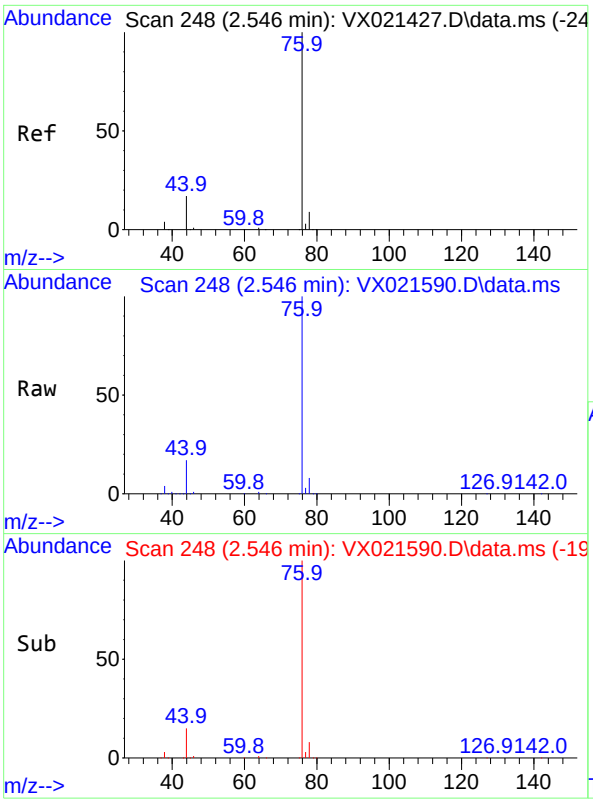
Tgt Ion: 43 Resp: 122943

Ion	Ratio	Lower	Upper
43	100		
58	26.9	27.8	41.8#



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

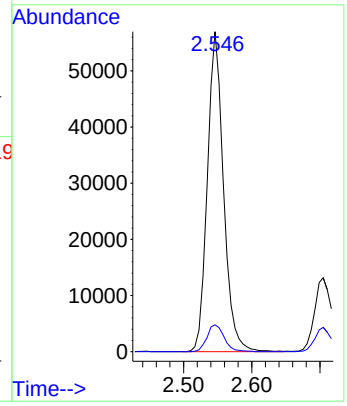
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

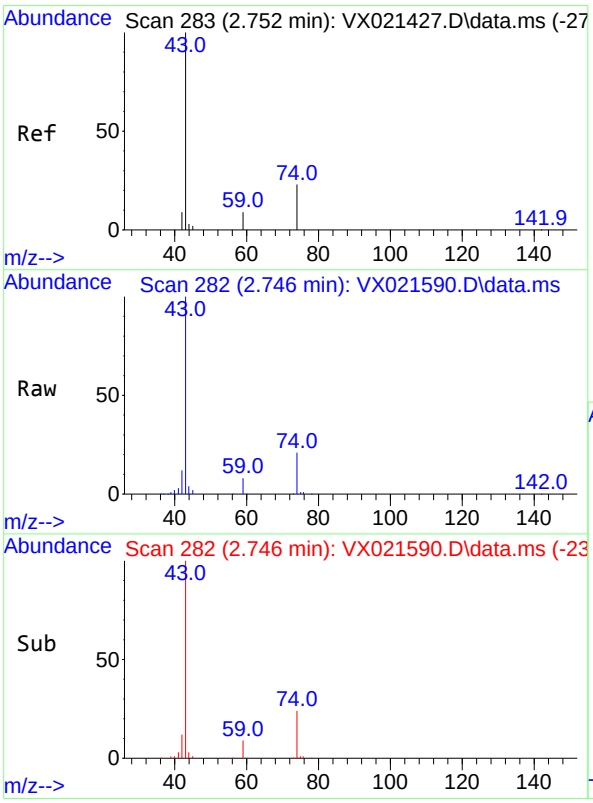


#17
Carbon Disulfide
Concen: 42.48 ug/l
RT: 2.546 min Scan# 248
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 76 Resp: 94022

Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.2	10.8

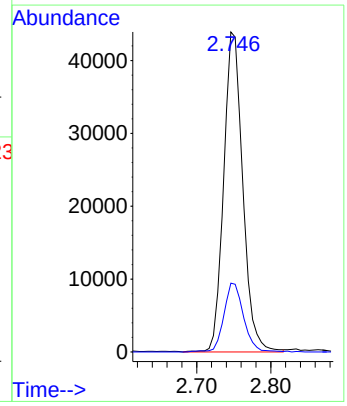




#18
Methyl Acetate
Concen: 55.31 ug/l
RT: 2.746 min Scan# 282
Delta R.T. -0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

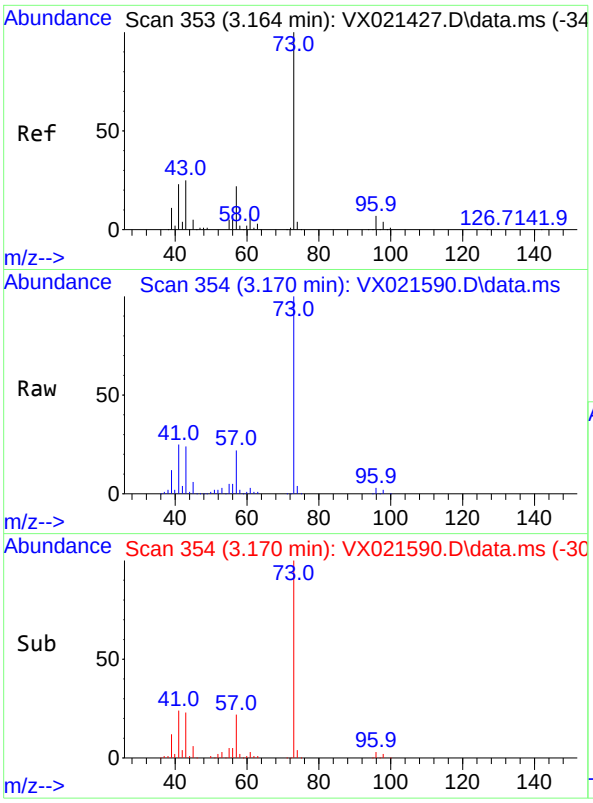
Tgt Ion: 43 Resp: 78622

Ion	Ratio	Lower	Upper
43	100		
74	22.3	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

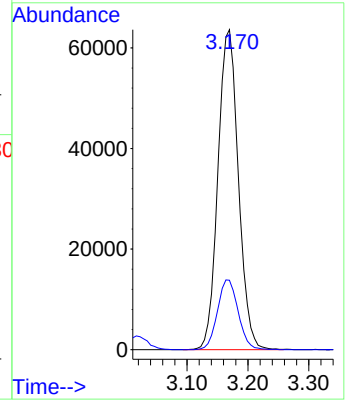
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

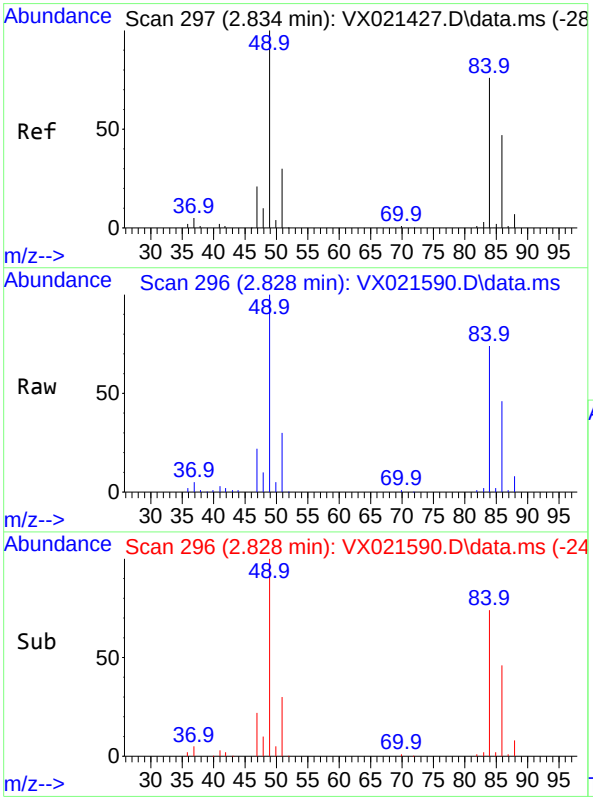


#19
Methyl tert-butyl Ether
Concen: 50.39 ug/l
RT: 3.170 min Scan# 354
Delta R.T. 0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 73 Resp: 148316

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.1	25.7

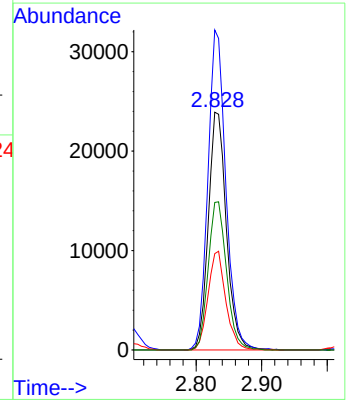




#20
Methylene Chloride
Concen: 47.74 ug/l
RT: 2.828 min Scan# 296
Delta R.T. -0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

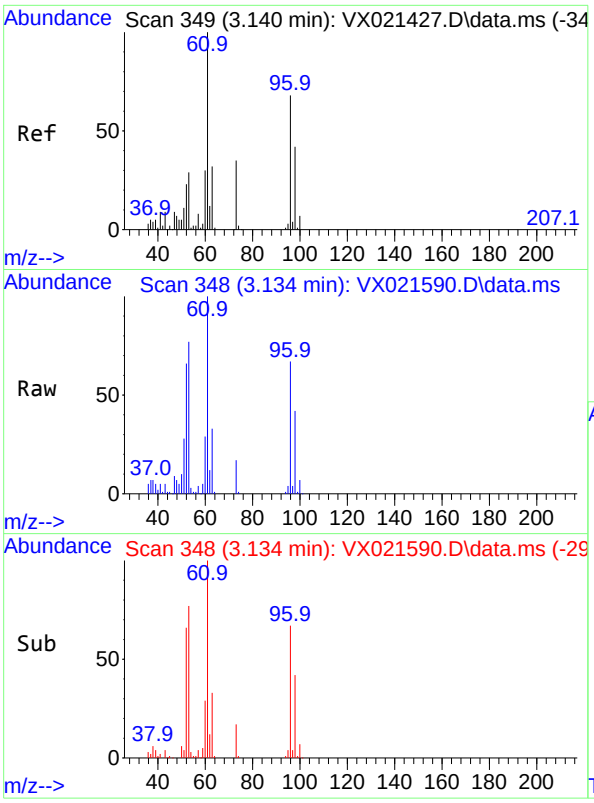
Tgt Ion: 84 Resp: 45839

Ion	Ratio	Lower	Upper
84	100		
49	134.6	88.6	132.8#
51	40.5	27.0	40.6
86	62.1	50.3	75.5



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

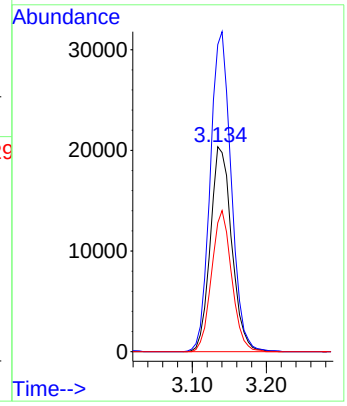
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

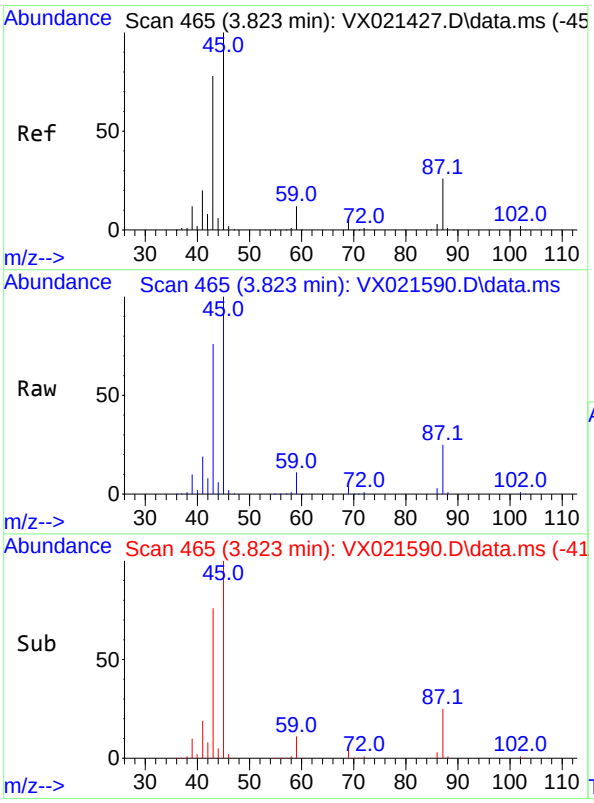


#21
trans-1,2-Dichloroethene
Concen: 47.13 ug/l
RT: 3.134 min Scan# 348
Delta R.T. -0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 96 Resp: 40805

Ion	Ratio	Lower	Upper
96	100		
61	149.8	107.7	161.5
98	62.8	50.4	75.6

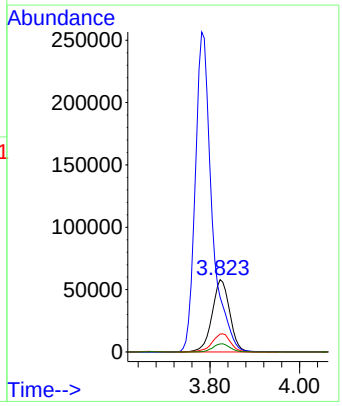




#22
Diisopropyl ether
Concen: 50.76 ug/l
RT: 3.823 min Scan# 465
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

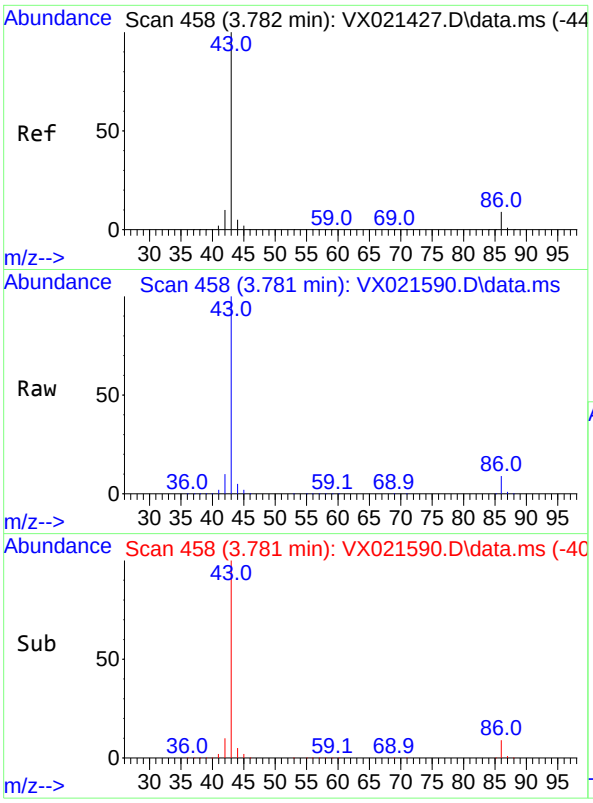
Tgt Ion: 45 Resp: 157793

Ion	Ratio	Lower	Upper
45	100		
43	75.2	58.0	87.0
87	24.9	25.4	38.0#
59	11.0	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

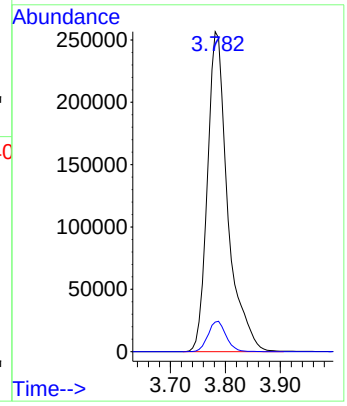
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

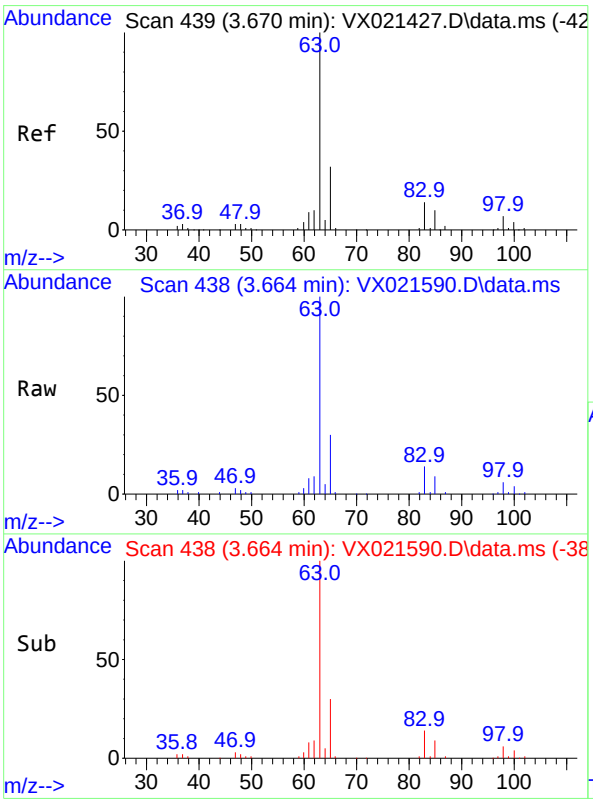


#23
Vinyl Acetate
Concen: 250.61 ug/l
RT: 3.781 min Scan# 458
Delta R.T. -0.001 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 43 Resp: 658893

Ion	Ratio	Lower	Upper
43	100		
86	9.3	9.9	14.9#

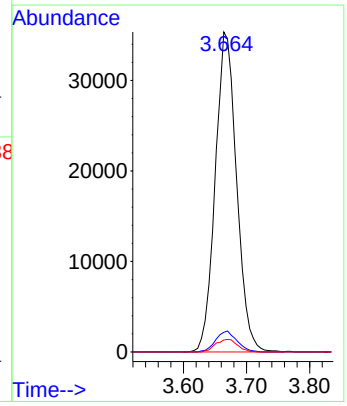




#24
1,1-Dichloroethane
Concen: 49.54 ug/l
RT: 3.664 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

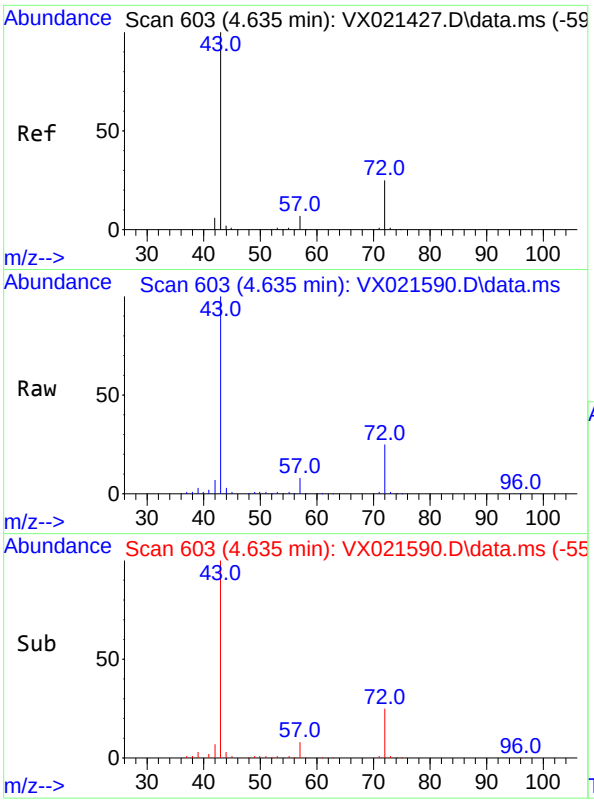
Tgt Ion: 63 Resp: 83017

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.8	11.2
100	3.8	2.5	7.5



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

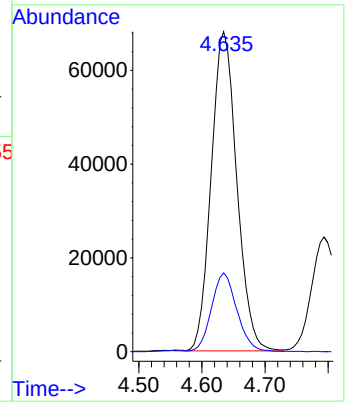
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

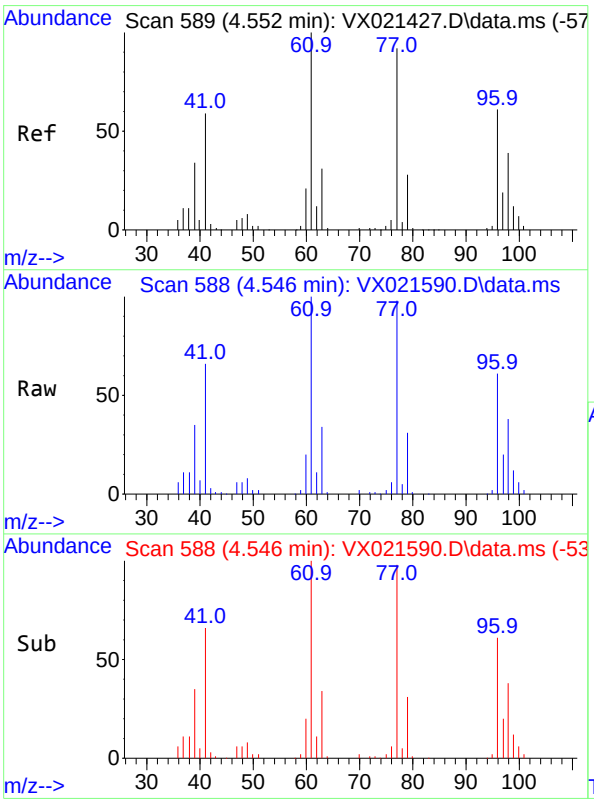


#25
2-Butanone
Concen: 257.07 ug/l
RT: 4.635 min Scan# 603
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 43 Resp: 191740

Ion	Ratio	Lower	Upper
43	100		
72	24.5	23.7	35.5

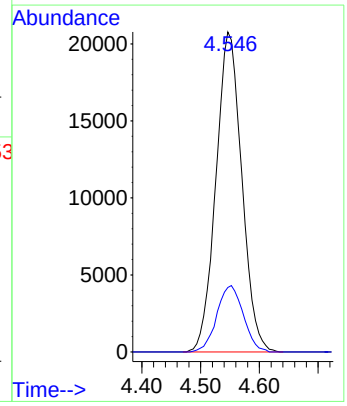




#26
2,2-Dichloropropane
Concen: 43.65 ug/l
RT: 4.546 min Scan# 588
Delta R.T. -0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

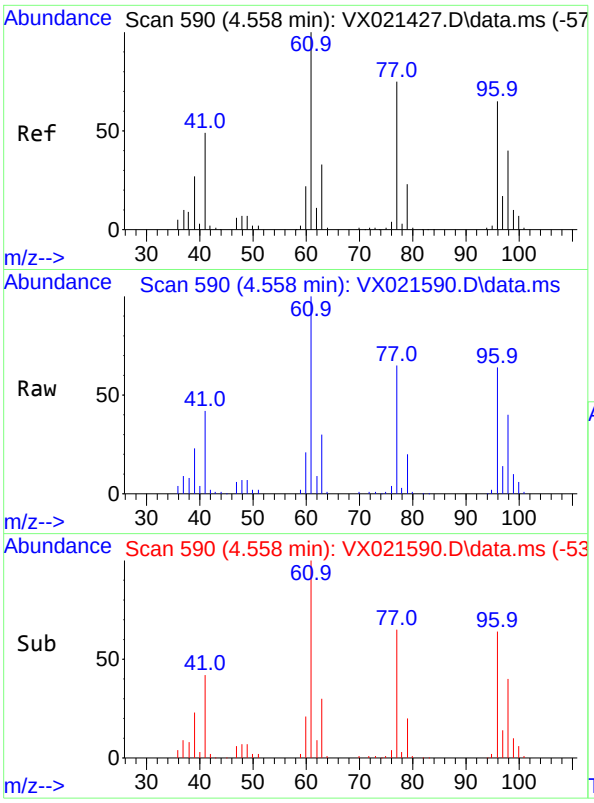
Tgt Ion: 77 Resp: 63370

Ion	Ratio	Lower	Upper
77	100		
97	21.3	11.7	35.1



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

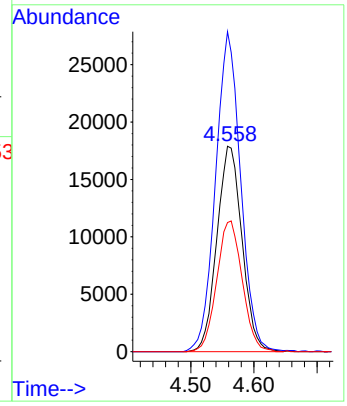
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

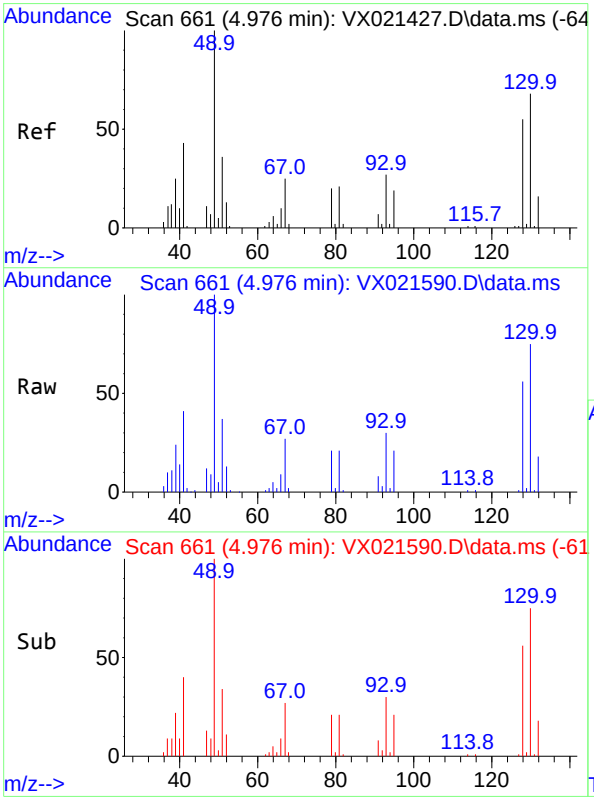


#27
cis-1,2-Dichloroethene
Concen: 49.22 ug/l
RT: 4.558 min Scan# 590
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 96 Resp: 49479

Ion	Ratio	Lower	Upper
96	100		
61	155.5	0.0	285.6
98	64.5	0.0	129.6

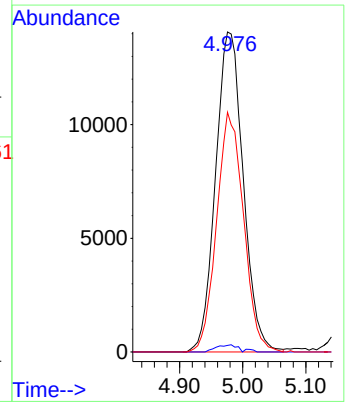




#28
Bromochloromethane
Concen: 51.09 ug/l
RT: 4.976 min Scan# 661
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

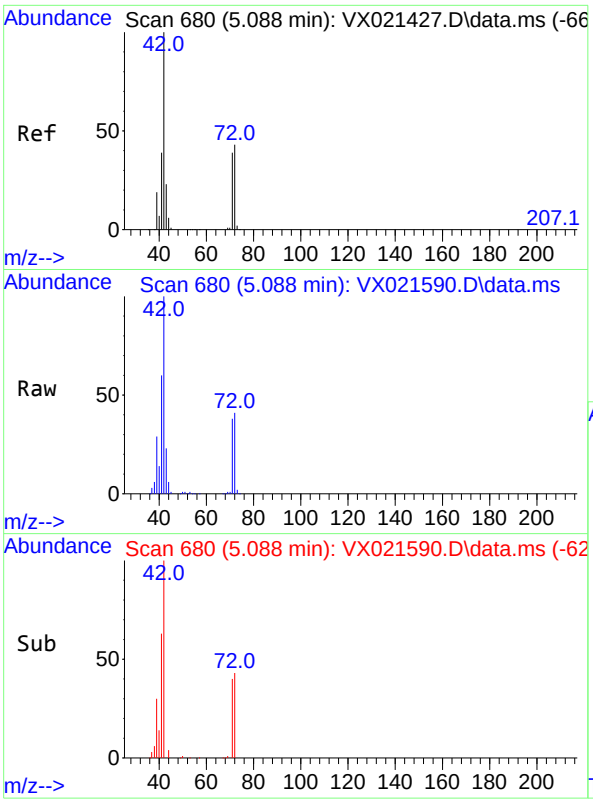
Tgt Ion: 49 Resp: 42858

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.0
130	72.8	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

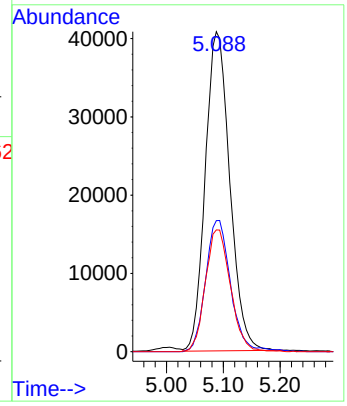
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

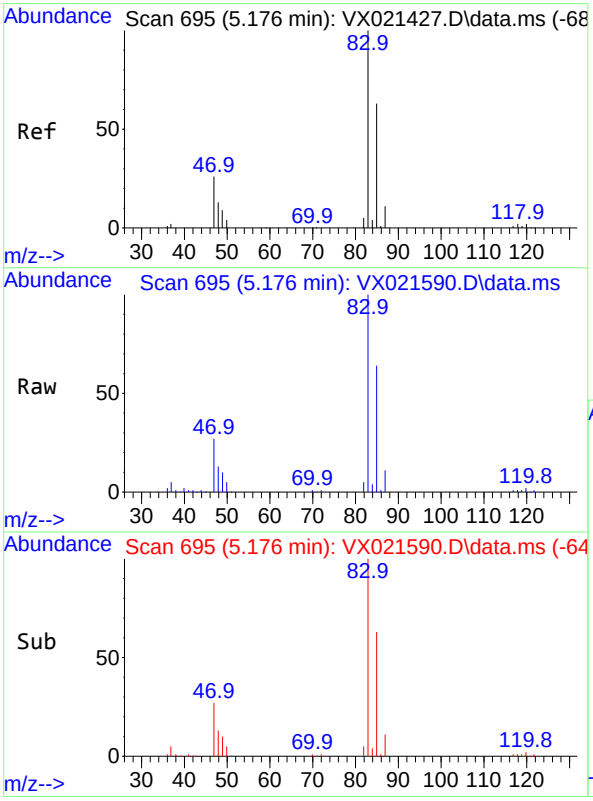


#29
Tetrahydrofuran
Concen: 252.49 ug/l
RT: 5.088 min Scan# 680
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 42 Resp: 122106

Ion	Ratio	Lower	Upper
42	100		
72	42.0	41.7	62.5
71	39.1	38.4	57.6

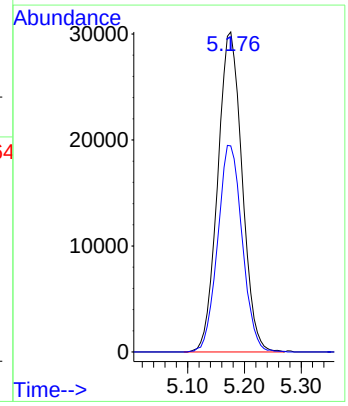




#30
Chloroform
Concen: 50.92 ug/l
RT: 5.176 min Scan# 695
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

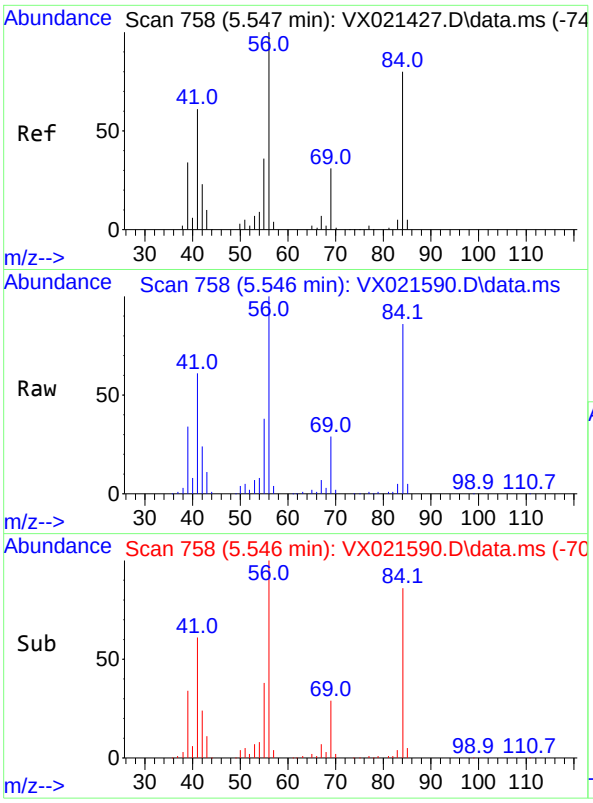
Tgt Ion: 83 Resp: 90051

Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

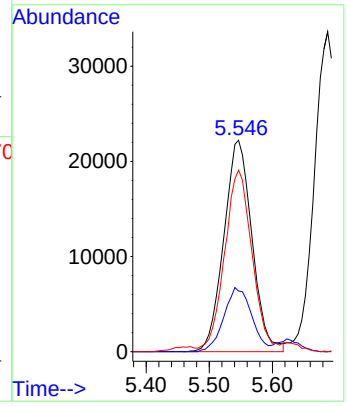
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

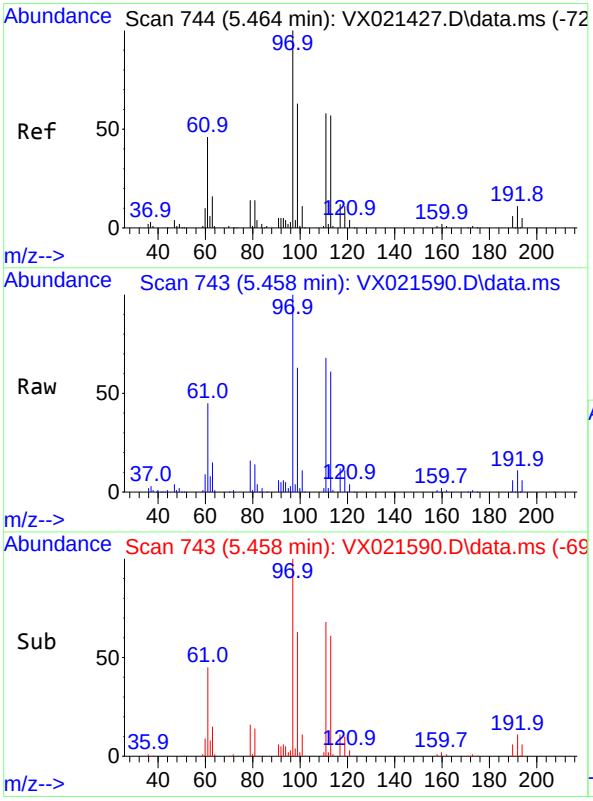


#31
Cyclohexane
Concen: 48.09 ug/l
RT: 5.546 min Scan# 758
Delta R.T. -0.001 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 56 Resp: 68816

Ion	Ratio	Lower	Upper
56	100		
69	28.7	25.3	37.9
84	83.5	71.4	107.0

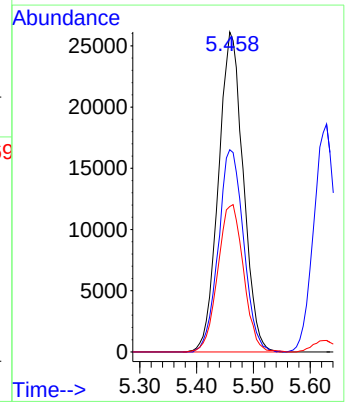




#32
1,1,1-Trichloroethane
Concen: 50.48 ug/l
RT: 5.458 min Scan# 743
Delta R.T. -0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

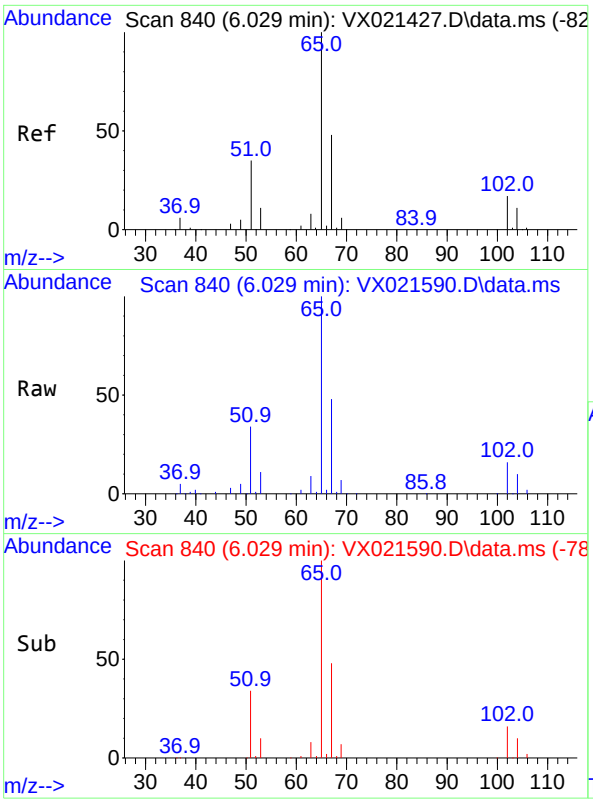
Tgt Ion: 97 Resp: 79108

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.5	77.3
61	47.9	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

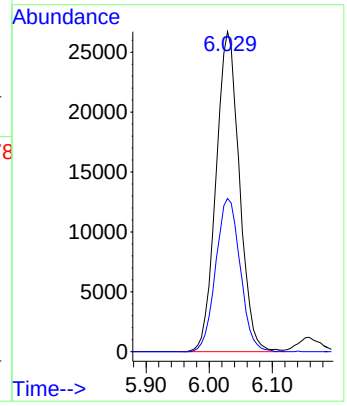
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

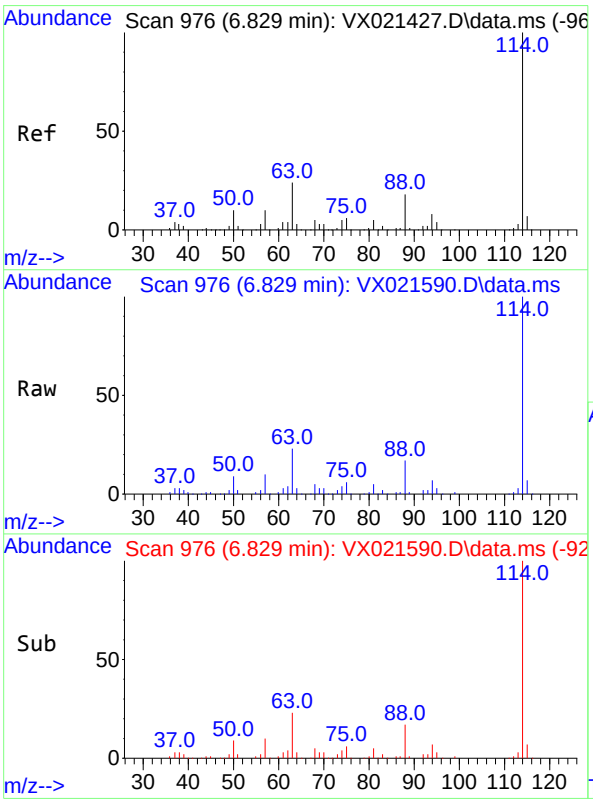


#33
1,2-Dichloroethane-d4
Concen: 52.75 ug/l
RT: 6.029 min Scan# 840
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 65 Resp: 68651

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	105.4

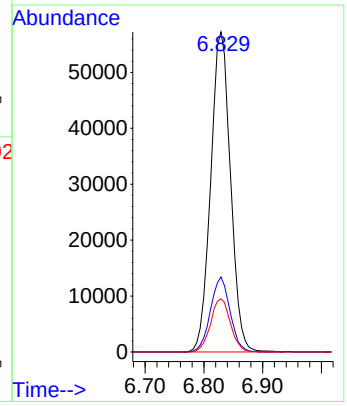




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.829 min Scan# 976
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

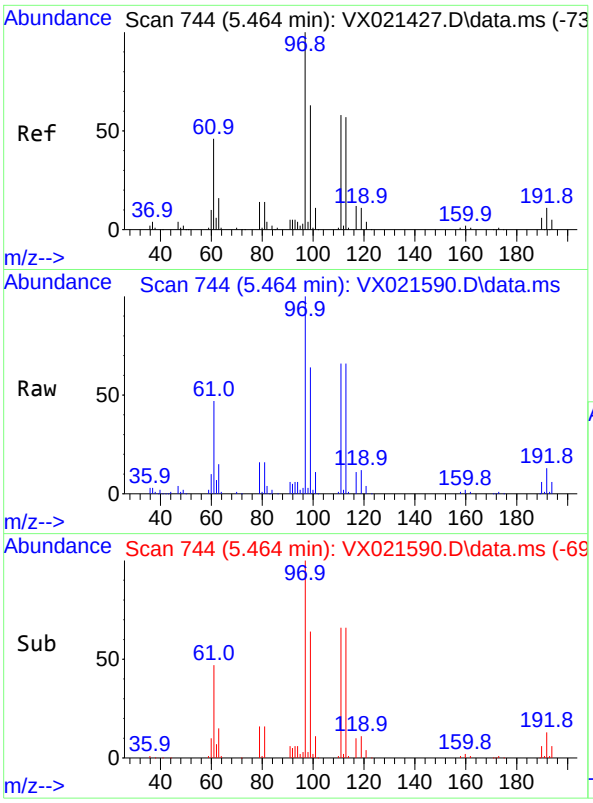
Tgt Ion:114 Resp: 133786

Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	40.8
88	16.6	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

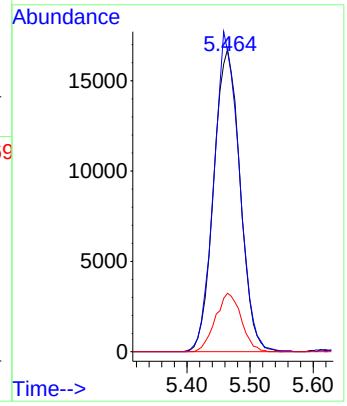
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

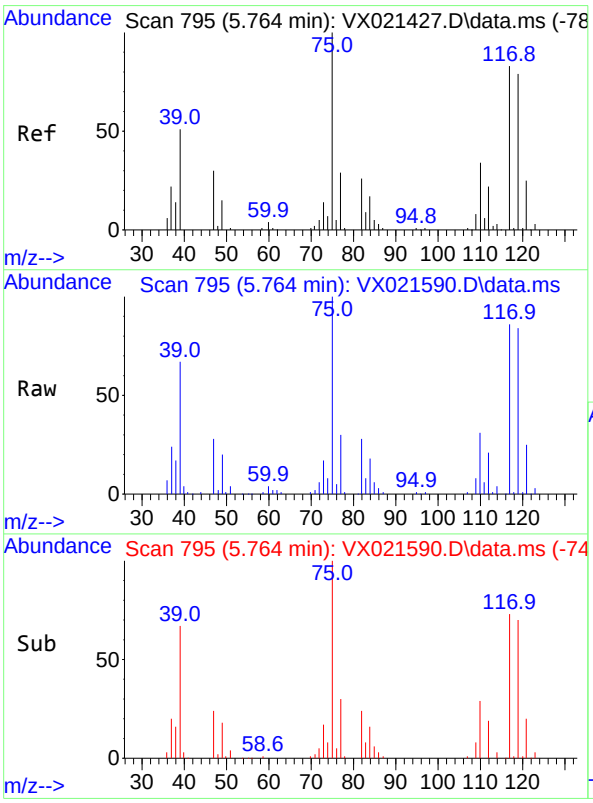


#35
Dibromofluoromethane
Concen: 50.93 ug/l
RT: 5.464 min Scan# 744
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:113 Resp: 48404

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.9	122.9
192	18.9	16.7	25.1

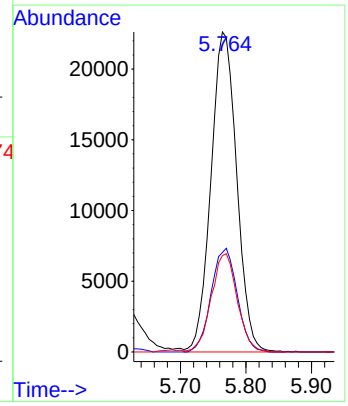




#36
1,1-Dichloropropene
Concen: 47.07 ug/l
RT: 5.764 min Scan# 795
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

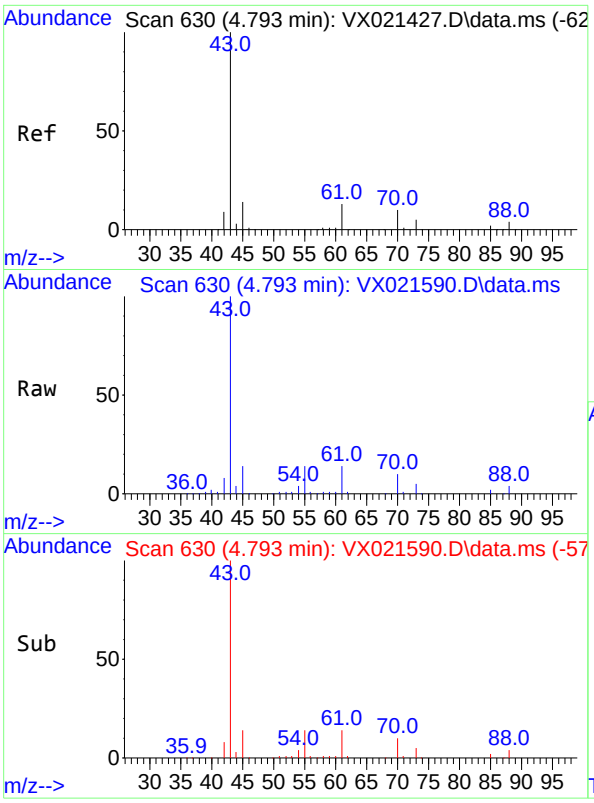
Tgt Ion: 75 Resp: 61703

Ion	Ratio	Lower	Upper
75	100		
110	32.7	18.1	54.4
77	31.0	25.3	37.9



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

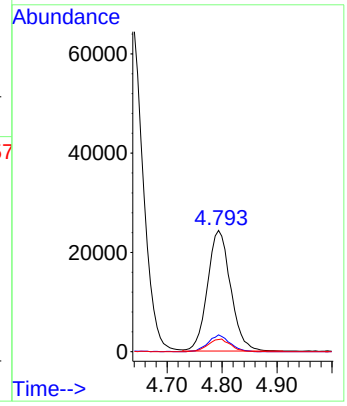
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

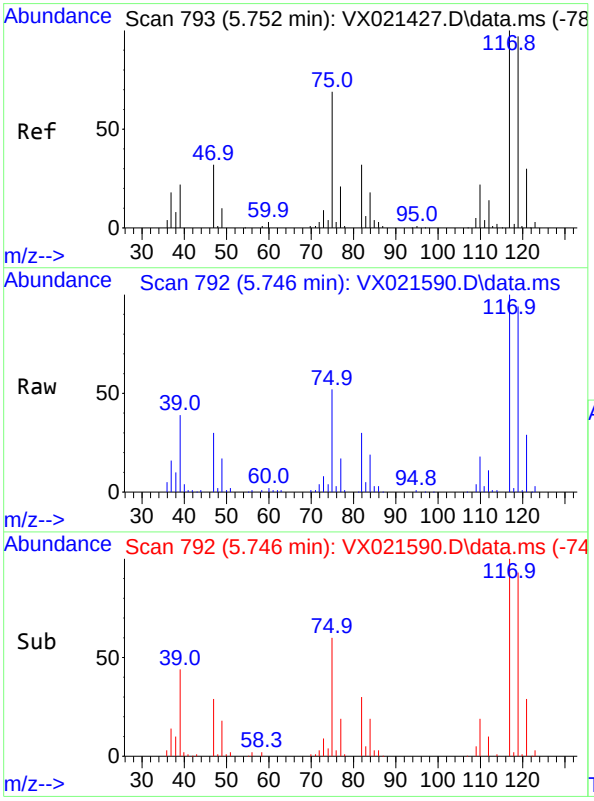


#37
Ethyl Acetate
Concen: 46.85 ug/l
RT: 4.793 min Scan# 630
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 43 Resp: 71006

Ion	Ratio	Lower	Upper
43	100		
61	13.0	12.8	19.2
70	10.2	10.5	15.7#

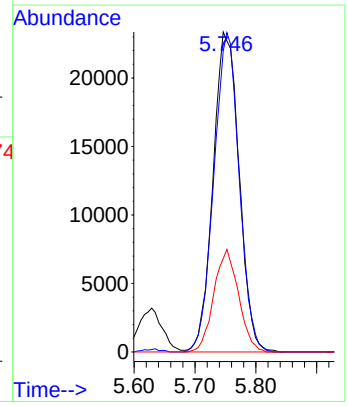




#38
Carbon Tetrachloride
Concen: 49.27 ug/l
RT: 5.746 min Scan# 792
Delta R.T. -0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

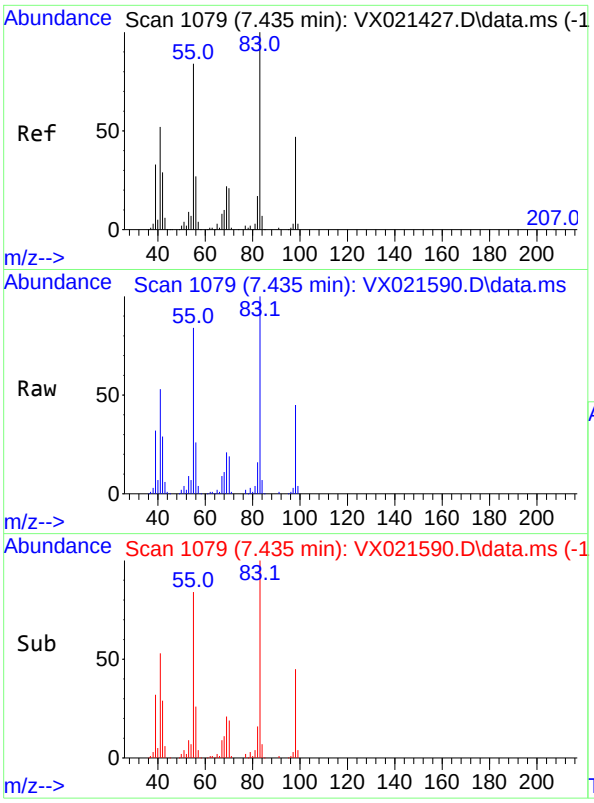
Tgt Ion:117 Resp: 69406

Ion	Ratio	Lower	Upper
117	100		
119	94.1	76.2	114.2
121	29.2	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

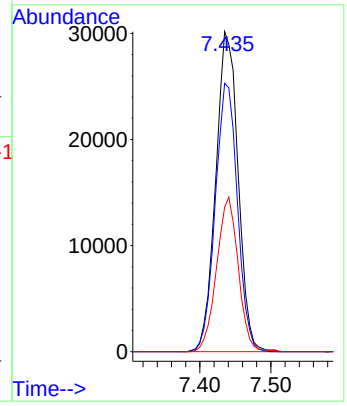
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

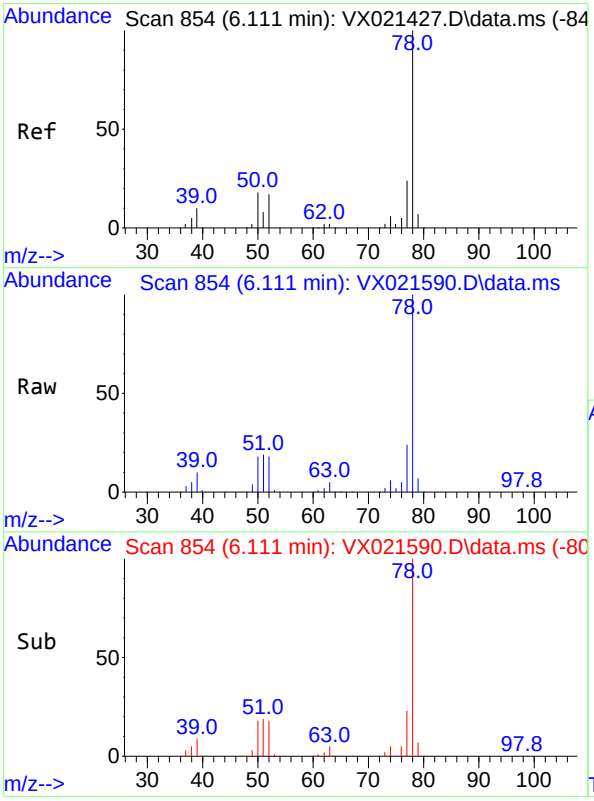


#39
Methylcyclohexane
Concen: 45.31 ug/l
RT: 7.435 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 83 Resp: 65842

Ion	Ratio	Lower	Upper
83	100		
55	83.8	58.9	88.3
98	45.2	38.1	57.1

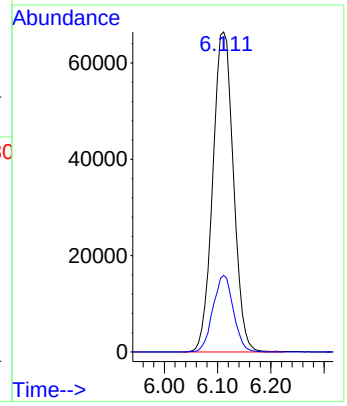




#40
Benzene
Concen: 48.11 ug/l
RT: 6.111 min Scan# 854
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

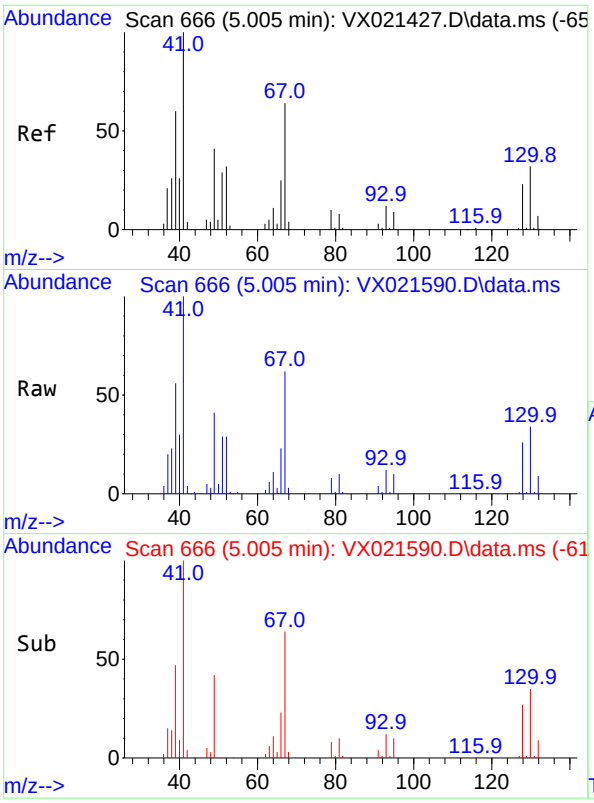
Tgt Ion: 78 Resp: 179094

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.9	28.3



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

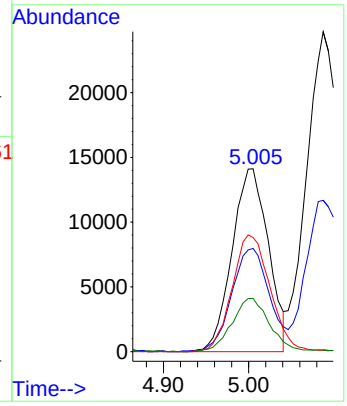
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

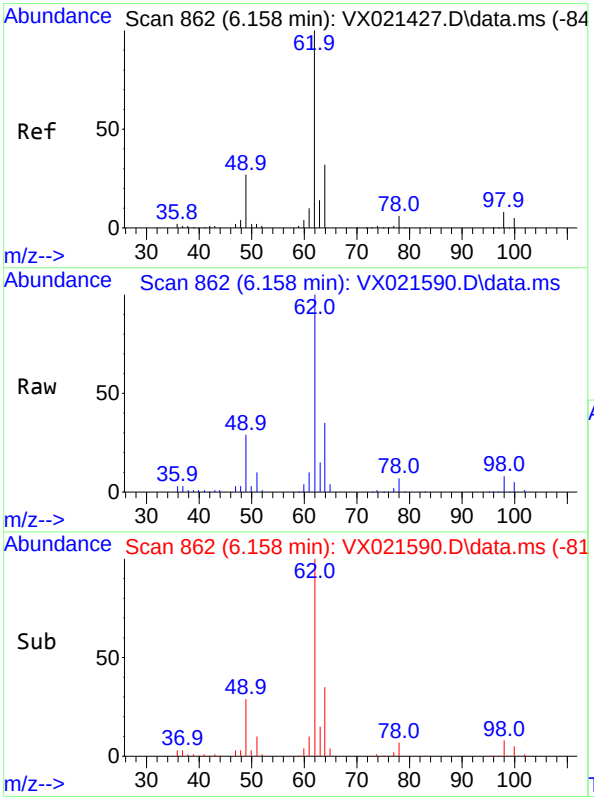


#41
Methacrylonitrile
Concen: 47.60 ug/l
RT: 5.005 min Scan# 666
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 41 Resp: 41849

Ion	Ratio	Lower	Upper
41	100		
39	59.4	42.5	63.7
67	67.0	65.0	97.6
52	30.2	25.3	37.9

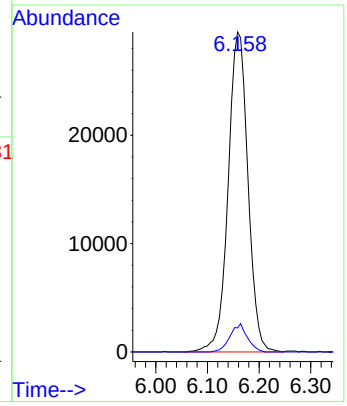




#42
1,2-Dichloroethane
Concen: 48.66 ug/l
RT: 6.158 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

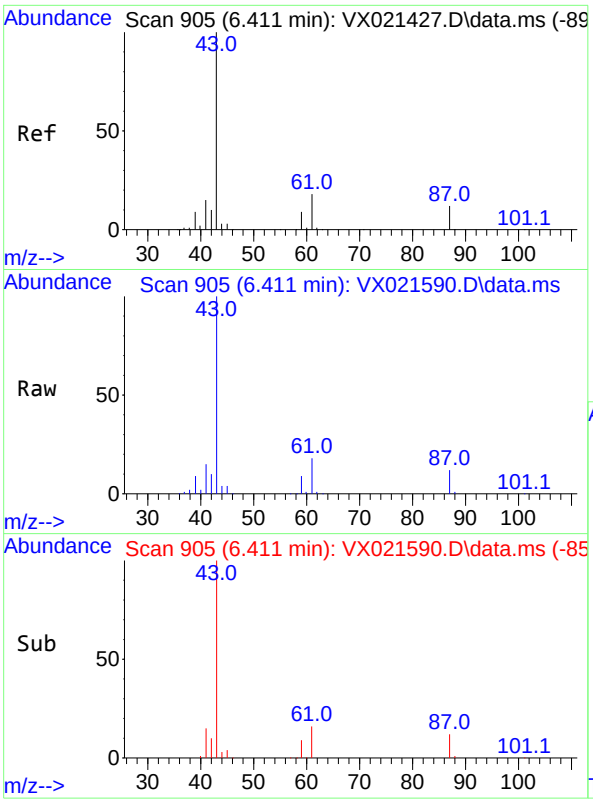
Tgt Ion: 62 Resp: 78533

Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	20.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

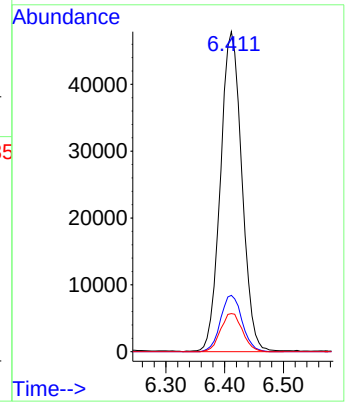
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

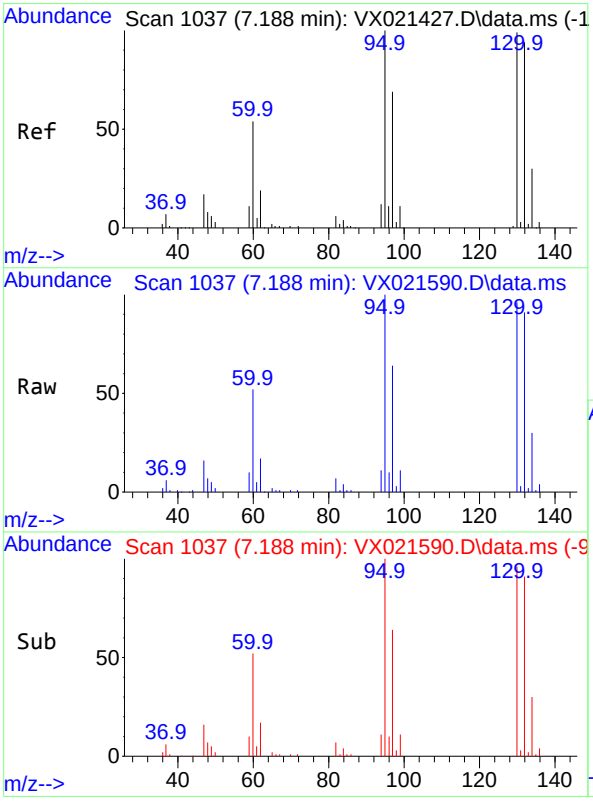


#43
Isopropyl Acetate
Concen: 49.22 ug/l
RT: 6.411 min Scan# 905
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 43 Resp: 121138

Ion	Ratio	Lower	Upper
43	100		
61	17.7	18.2	27.4#
87	12.2	12.5	18.7#

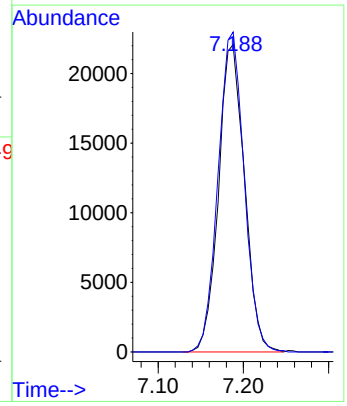




#44
Trichloroethene
Concen: 47.66 ug/l
RT: 7.188 min Scan# 1037
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

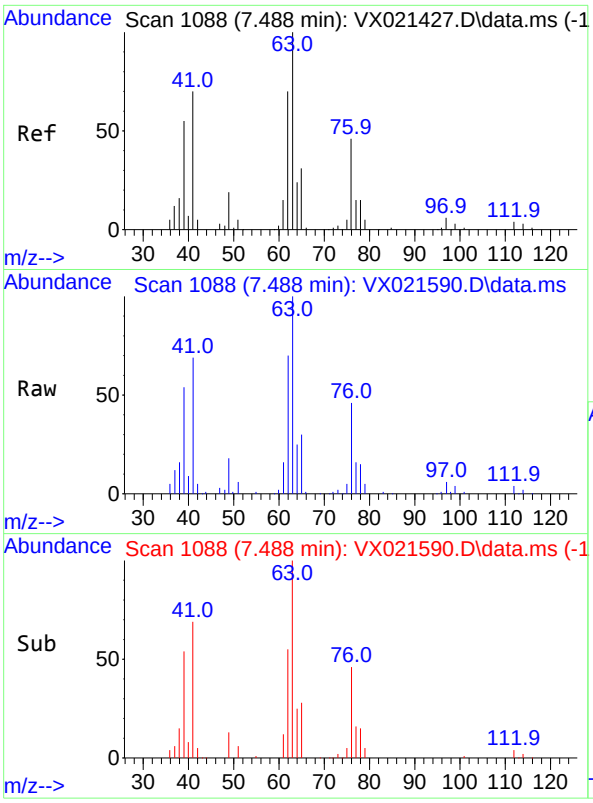
Tgt Ion:130 Resp: 46818

Ion	Ratio	Lower	Upper
130	100		
95	104.1	0.0	198.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

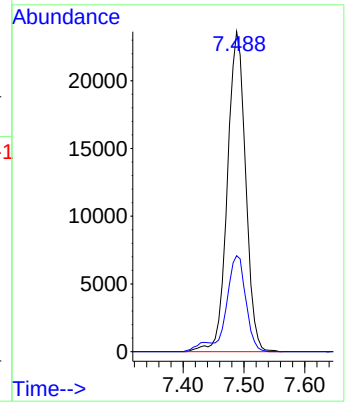
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

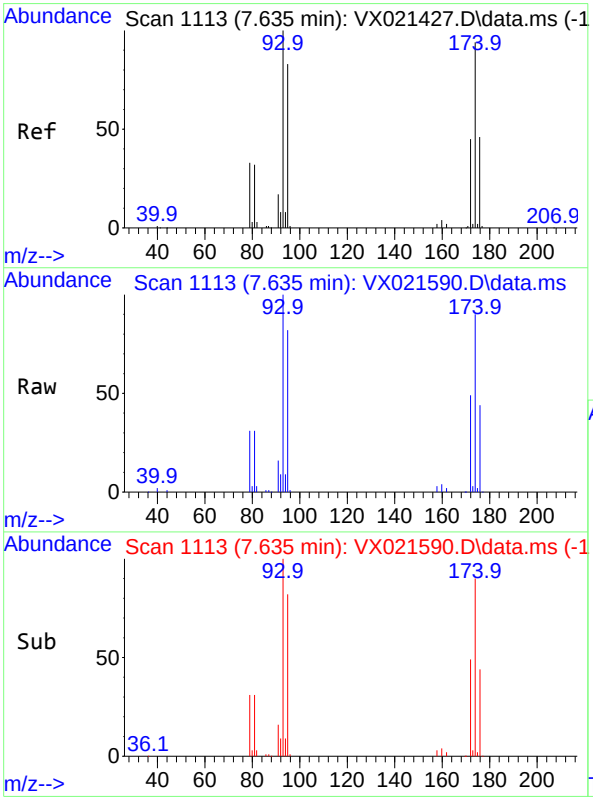


#45
1,2-Dichloropropane
Concen: 48.67 ug/l
RT: 7.488 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 63 Resp: 49076

Ion	Ratio	Lower	Upper
63	100		
65	30.0	25.7	38.5

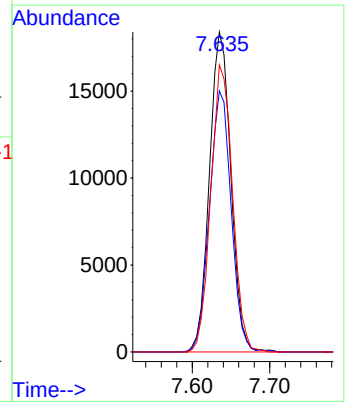




#46
Dibromomethane
Concen: 48.27 ug/l
RT: 7.635 min Scan# 1113
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

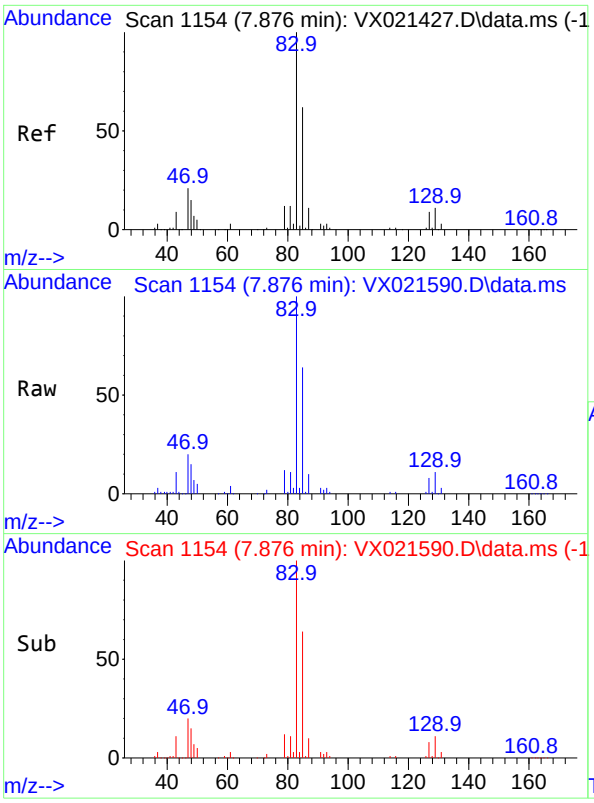
Tgt Ion: 93 Resp: 35479

Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.8	100.2
174	90.5	83.1	124.7



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

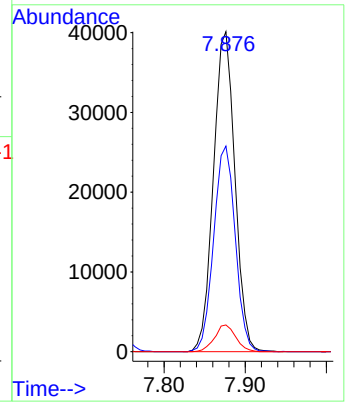
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

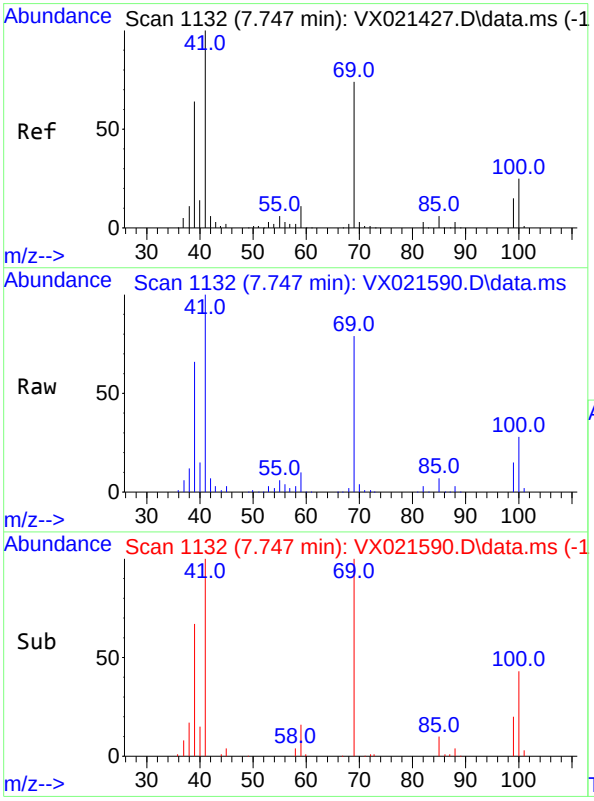


#47
Bromodichloromethane
Concen: 49.32 ug/l
RT: 7.876 min Scan# 1154
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 83 Resp: 73771

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.4	77.0
127	8.4	6.8	10.2

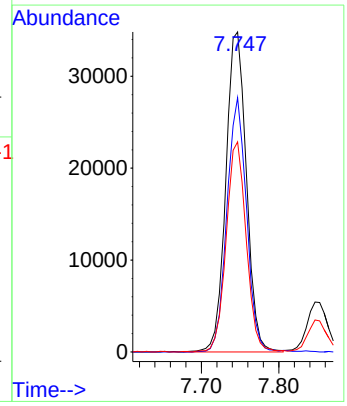




#48
Methyl methacrylate
Concen: 49.04 ug/l
RT: 7.747 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

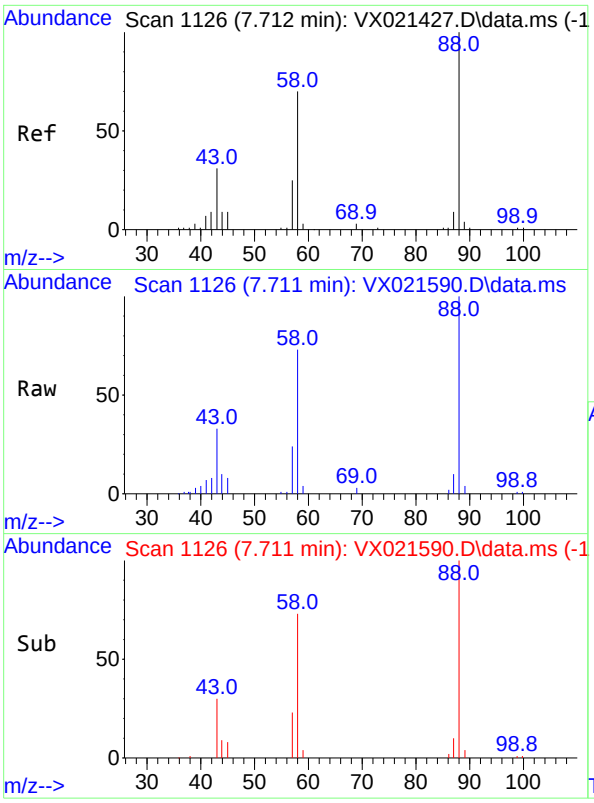
Tgt Ion: 41 Resp: 64379

Ion	Ratio	Lower	Upper
41	100		
69	75.9	76.0	114.0#
39	64.1	44.6	67.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

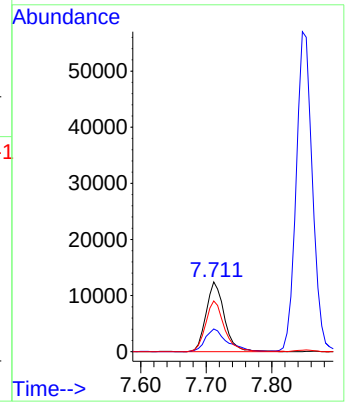
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

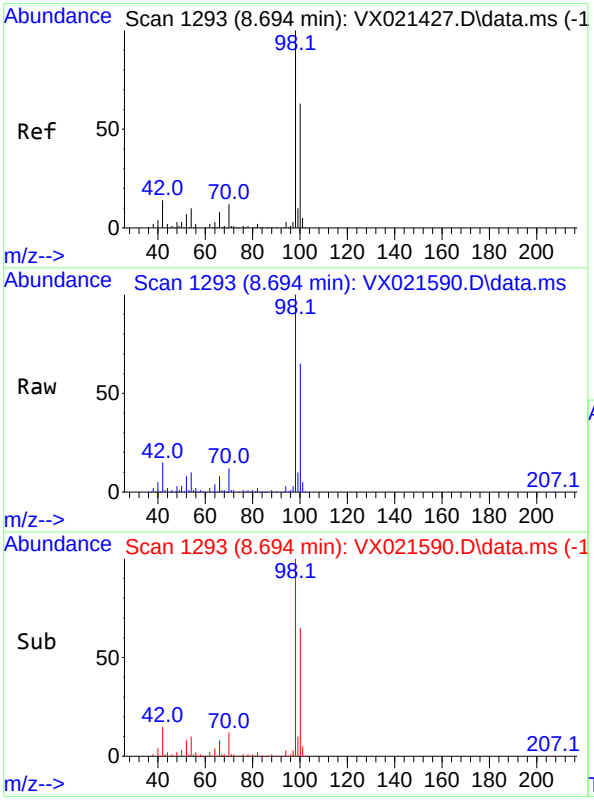


#49
1,4-Dioxane
Concen: 1025.01 ug/l
RT: 7.711 min Scan# 1126
Delta R.T. -0.001 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 88 Resp: 24092

Ion	Ratio	Lower	Upper
88	100		
43	39.5	23.2	34.8#
58	74.6	55.0	82.4

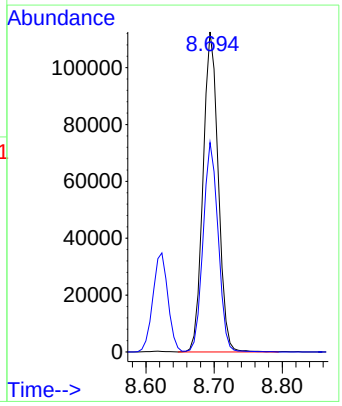




#50
Toluene-d8
Concen: 51.53 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

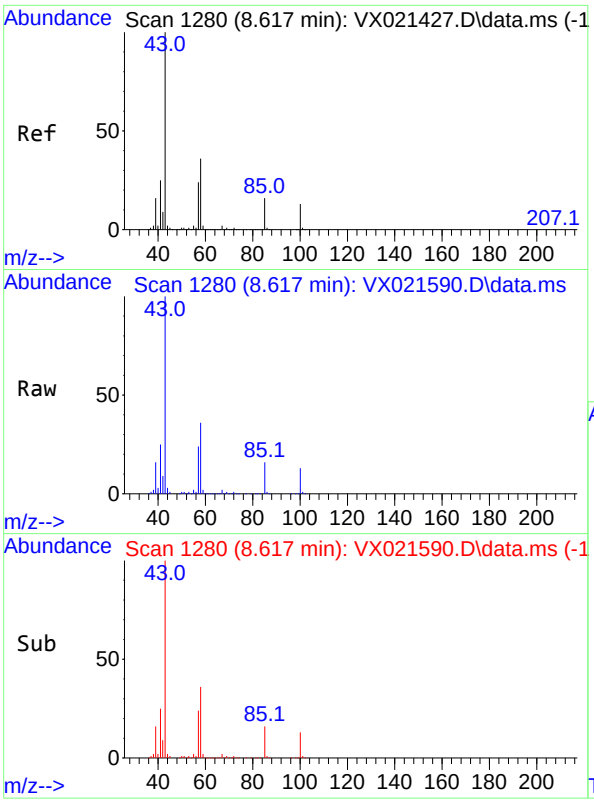
Tgt Ion: 98 Resp: 174489

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.9	77.9



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

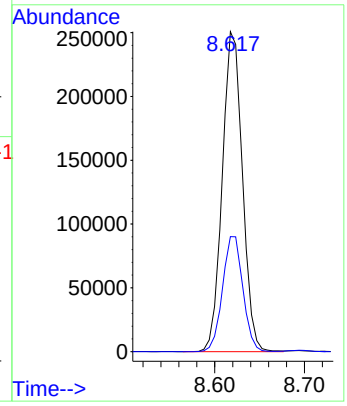
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

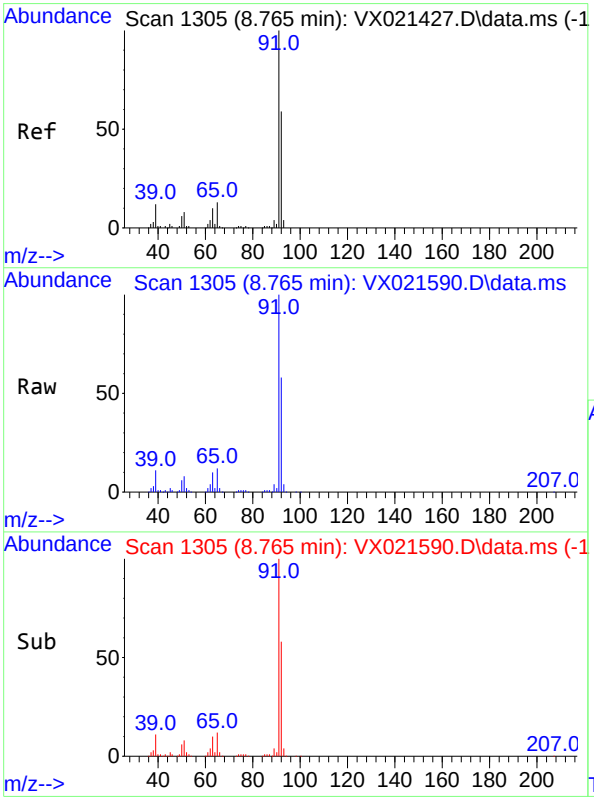


#51
4-Methyl-2-Pentanone
Concen: 258.28 ug/l
RT: 8.617 min Scan# 1280
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 43 Resp: 390991

Ion	Ratio	Lower	Upper
43	100		
58	36.5	35.4	53.0

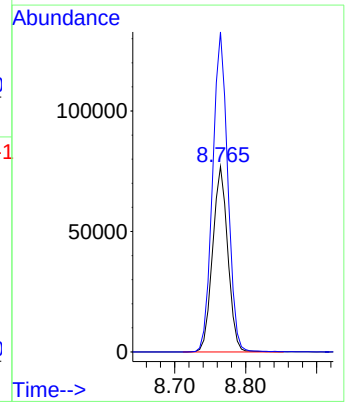




#52
Toluene
Concen: 49.74 ug/l
RT: 8.765 min Scan# 1305
Delta R.T. -0.001 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

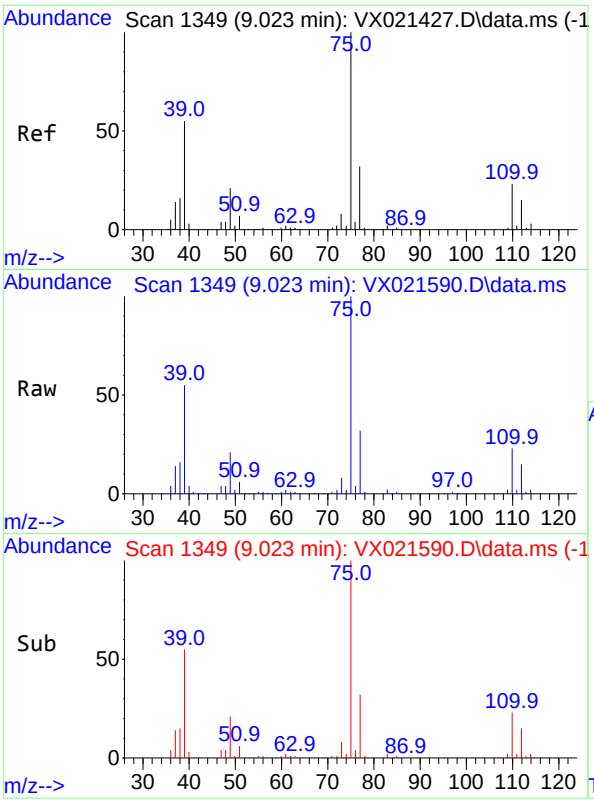
Tgt Ion: 92 Resp: 114366

Ion	Ratio	Lower	Upper
92	100		
91	172.6	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

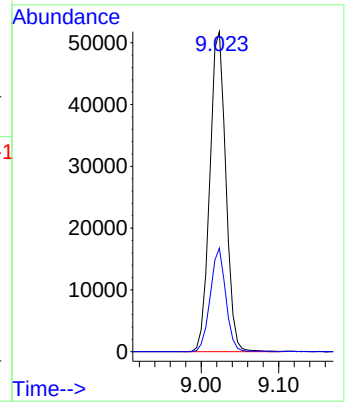
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

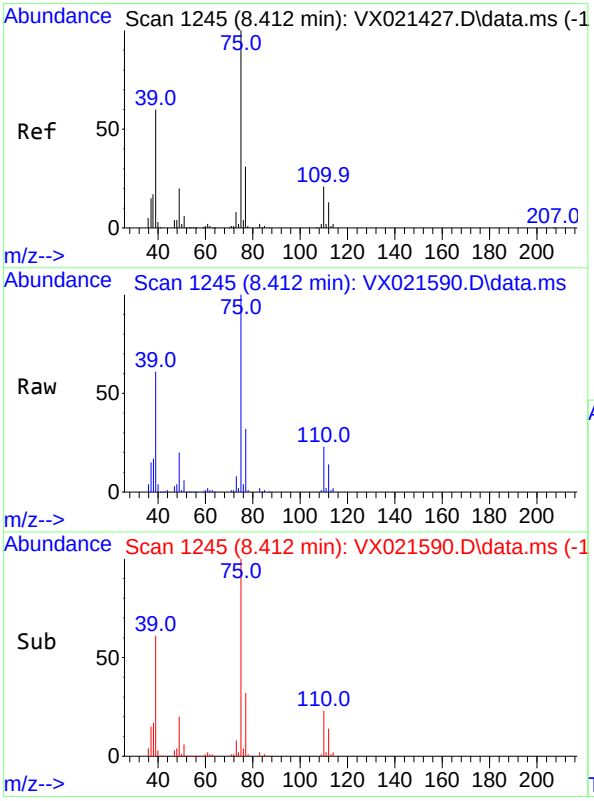


#53
t-1,3-Dichloropropene
Concen: 49.39 ug/l
RT: 9.023 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 75 Resp: 74599

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.9	37.3

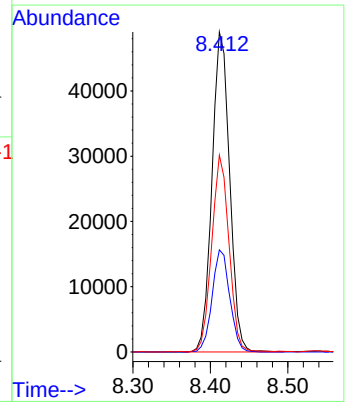




#54
cis-1,3-Dichloropropene
Concen: 48.25 ug/l
RT: 8.412 min Scan# 1245
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

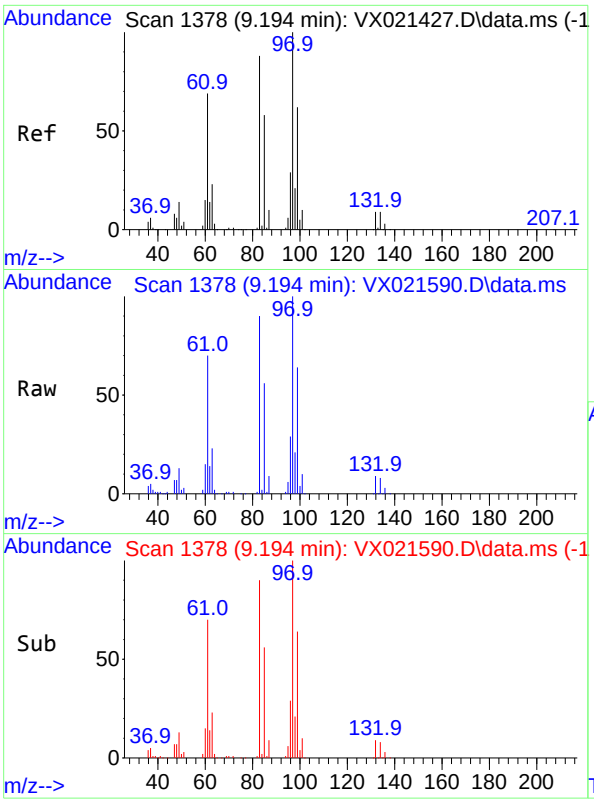
Tgt Ion: 75 Resp: 77542

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5
39	61.4	35.1	52.7#



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

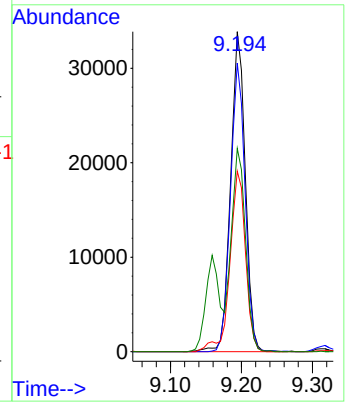
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

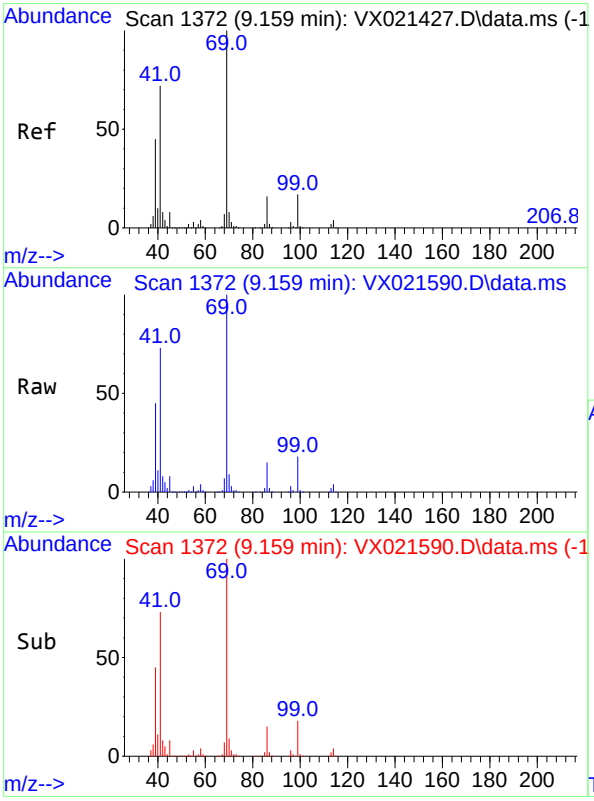


#55
1,1,2-Trichloroethane
Concen: 50.14 ug/l
RT: 9.194 min Scan# 1378
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 97 Resp: 48656

Ion	Ratio	Lower	Upper
97	100		
83	90.2	69.3	103.9
85	56.4	44.3	66.5
99	63.5	50.3	75.5

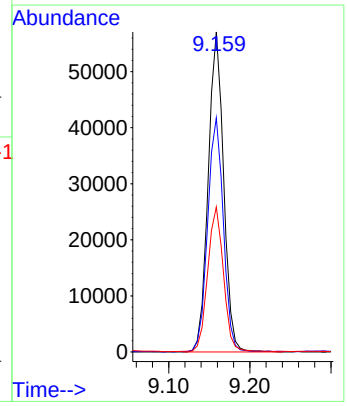




#56
Ethyl methacrylate
Concen: 46.08 ug/l
RT: 9.159 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

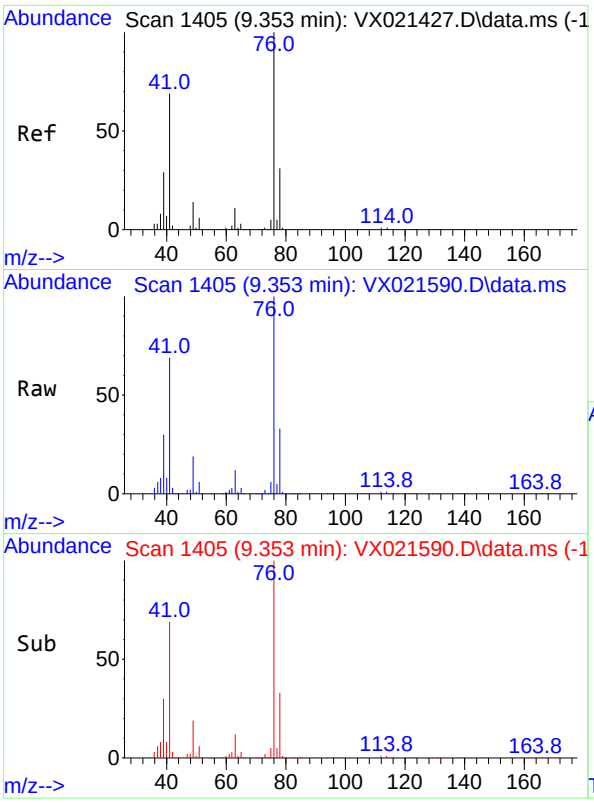
Tgt Ion: 69 Resp: 75245

Ion	Ratio	Lower	Upper
69	100		
41	75.0	46.8	70.2#
39	46.2	24.7	37.1#



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

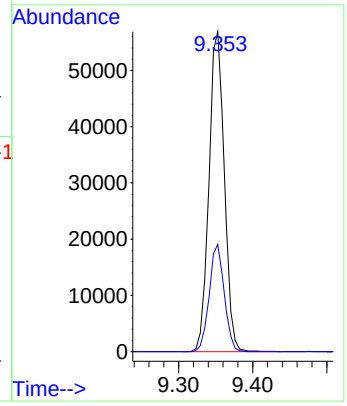
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

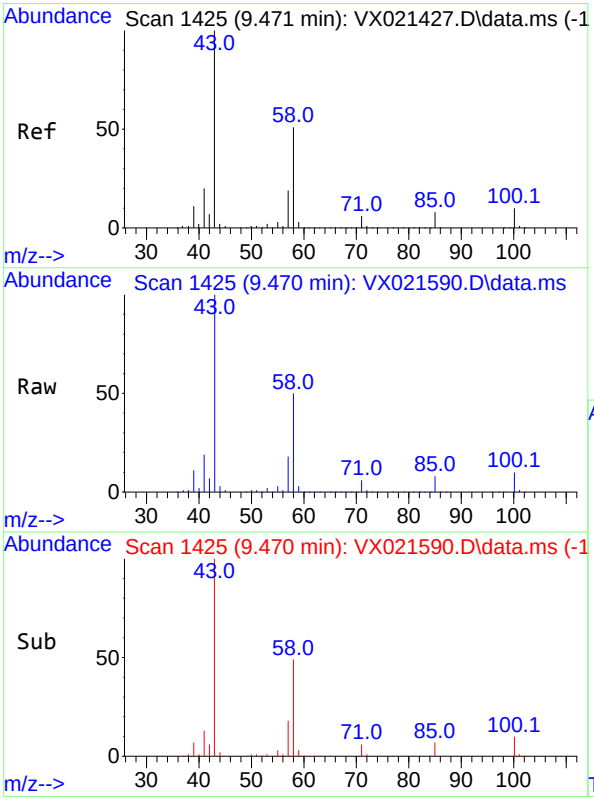


#57
1,3-Dichloropropane
Concen: 49.30 ug/l
RT: 9.353 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 76 Resp: 81875

Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.2

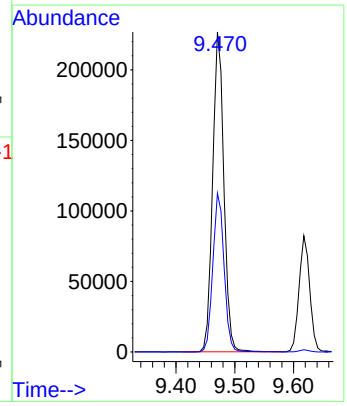




#59
2-Hexanone
Concen: 264.93 ug/l
RT: 9.470 min Scan# 1425
Delta R.T. -0.001 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

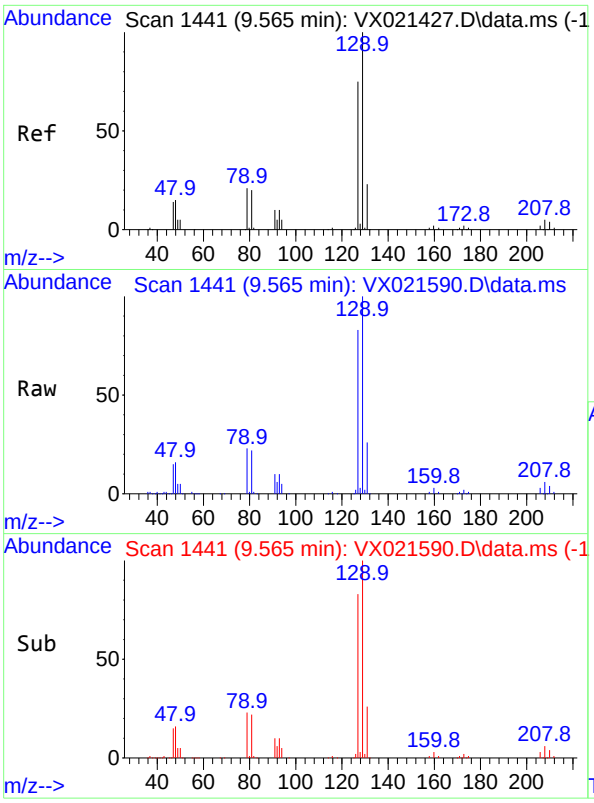
Tgt Ion: 43 Resp: 301146

Ion	Ratio	Lower	Upper
43	100		
58	50.0	30.9	92.8



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

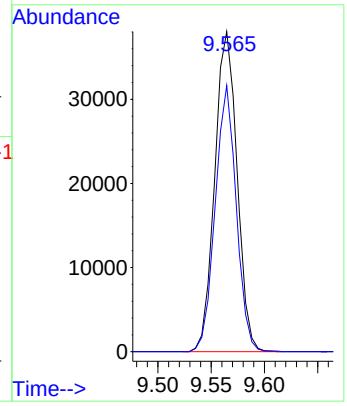
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

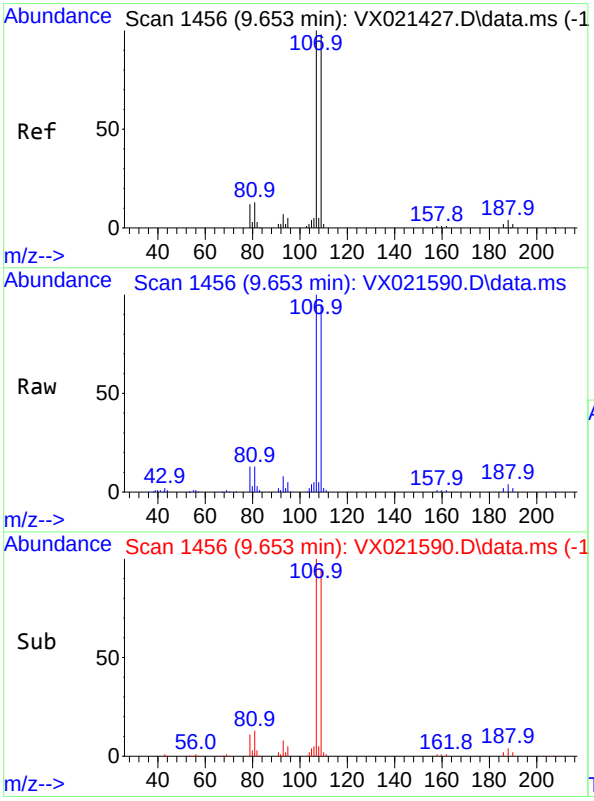


#60
Dibromochloromethane
Concen: 50.95 ug/l
RT: 9.565 min Scan# 1441
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:129 Resp: 55375

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.4	115.2

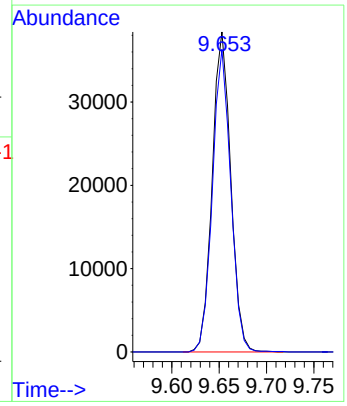




#61
1,2-Dibromoethane
Concen: 49.98 ug/l
RT: 9.653 min Scan# 1456
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

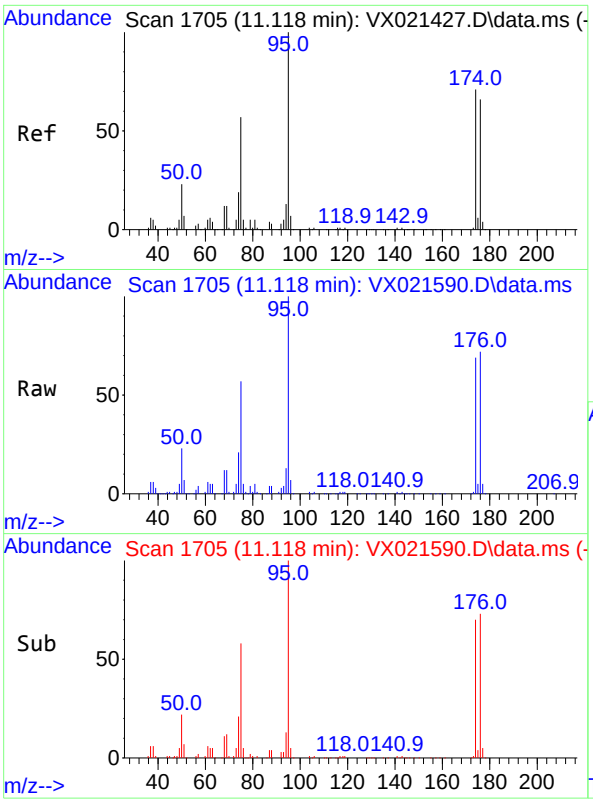
Tgt Ion:107 Resp: 52101

Ion	Ratio	Lower	Upper
107	100		
109	93.5	75.8	113.6



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

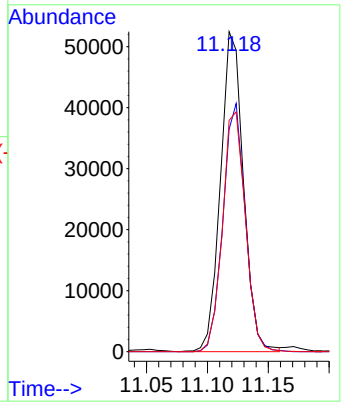
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

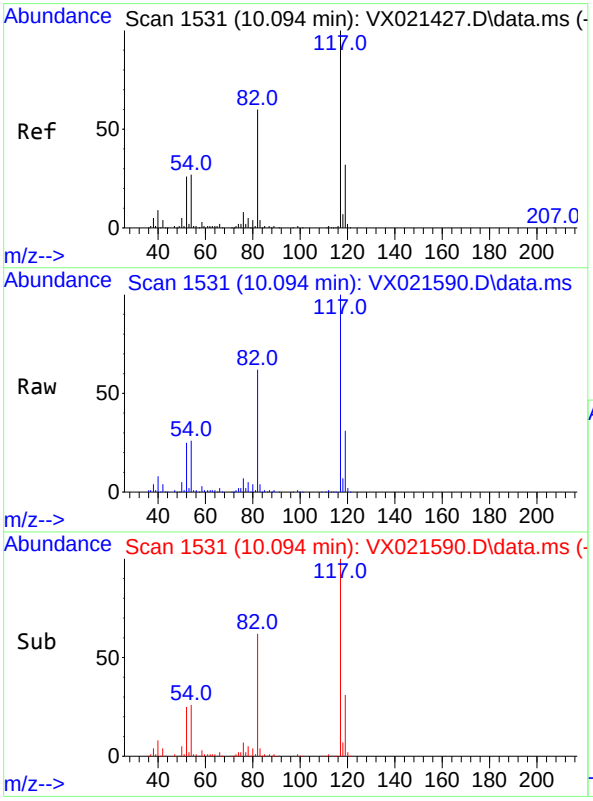


#62
4-Bromofluorobenzene
Concen: 52.27 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 95 Resp: 68823

Ion	Ratio	Lower	Upper
95	100		
174	75.3	0.0	154.6
176	74.9	0.0	155.8

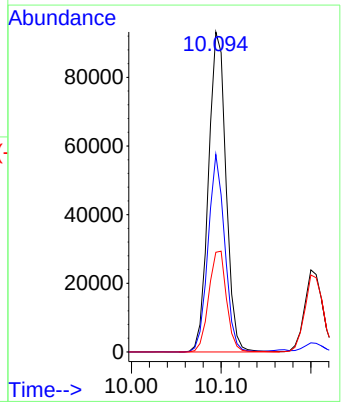




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

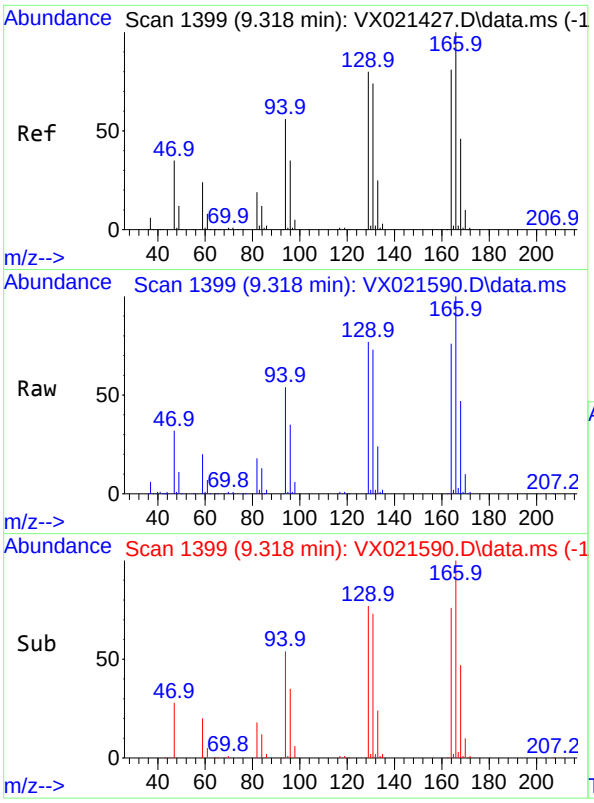
Tgt Ion:117 Resp: 126299

Ion	Ratio	Lower	Upper
117	100		
82	61.7	47.4	71.2
119	31.2	26.6	39.8



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

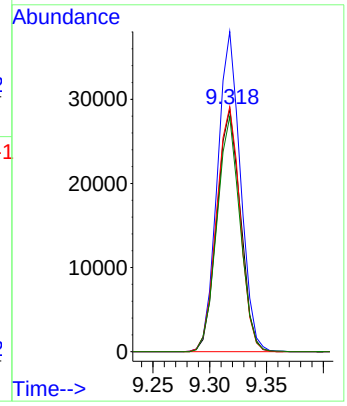
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

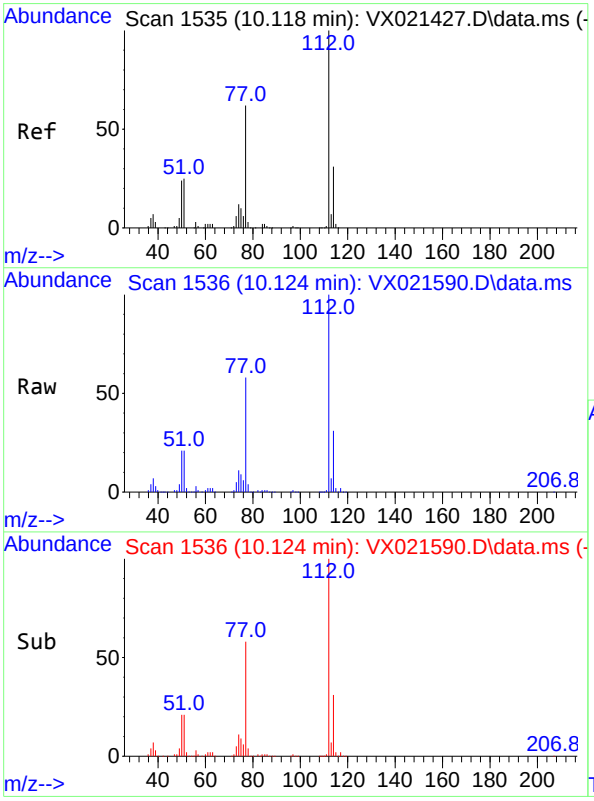


#64
Tetrachloroethene
Concen: 49.11 ug/l
RT: 9.318 min Scan# 1399
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:164 Resp: 41551

Ion	Ratio	Lower	Upper
164	100		
166	131.7	103.4	155.2
129	100.8	70.8	106.2
131	96.8	72.5	108.7

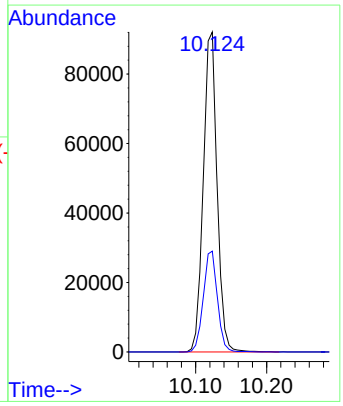




#65
Chlorobenzene
Concen: 49.03 ug/l
RT: 10.124 min Scan# 1536
Delta R.T. 0.005 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

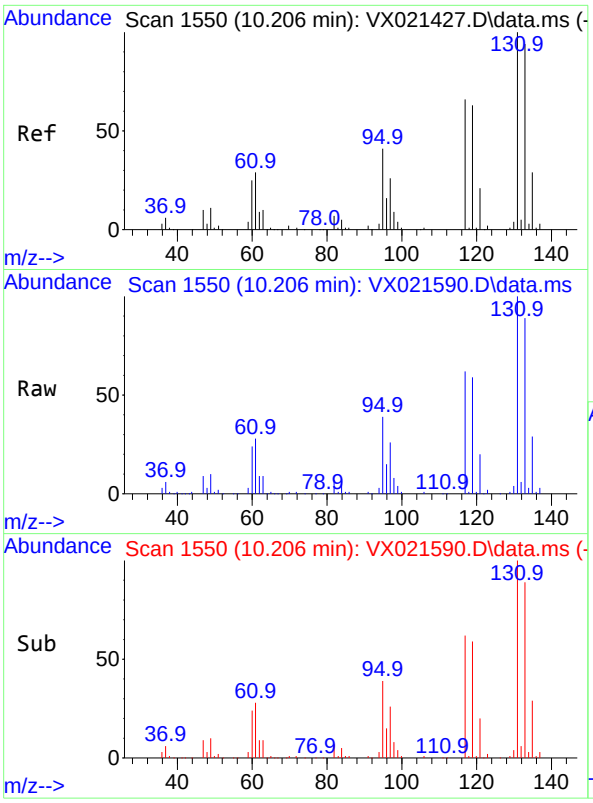
Tgt Ion:112 Resp: 124401

Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

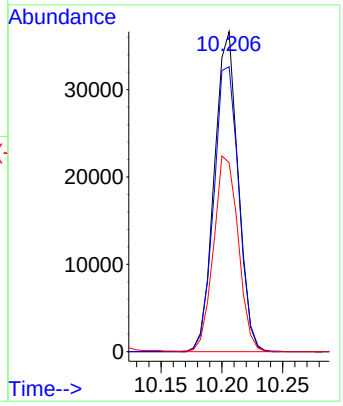
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

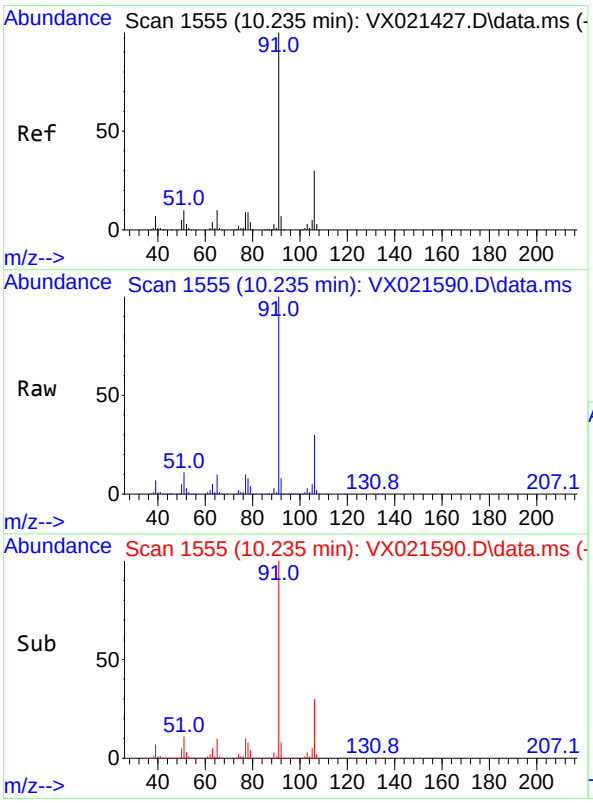


#66
1,1,1,2-Tetrachloroethane
Concen: 51.21 ug/l
RT: 10.206 min Scan# 1550
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:131 Resp: 49790

Ion	Ratio	Lower	Upper
131	100		
133	93.6	47.7	143.1
119	63.4	32.1	96.5

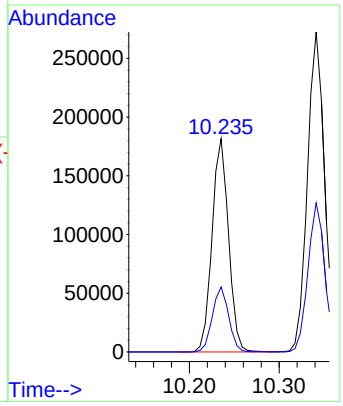




#67
Ethyl Benzene
Concen: 50.12 ug/l
RT: 10.235 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

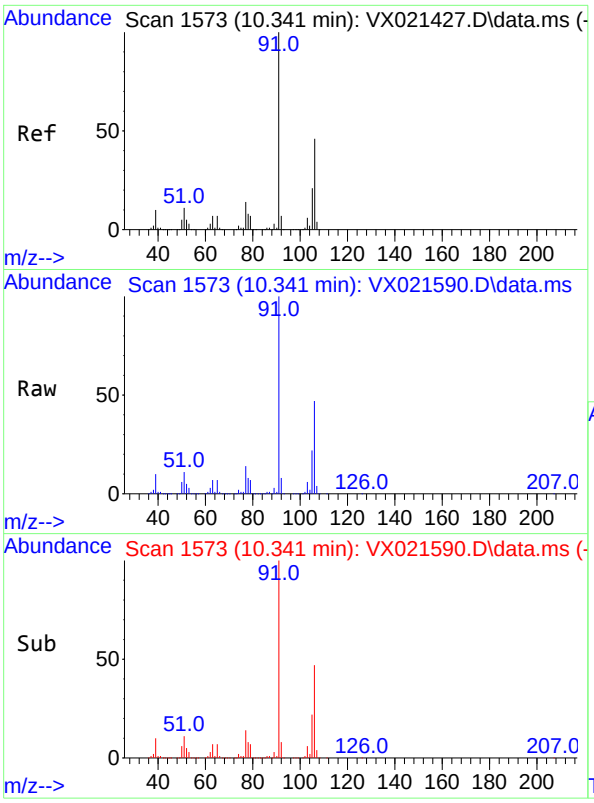
Tgt Ion: 91 Resp: 231805

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

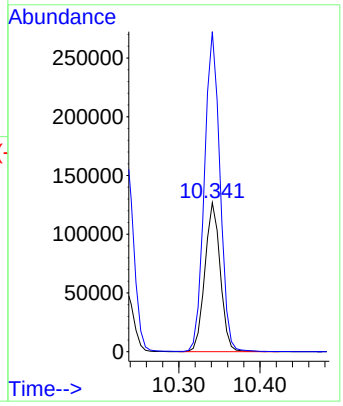
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

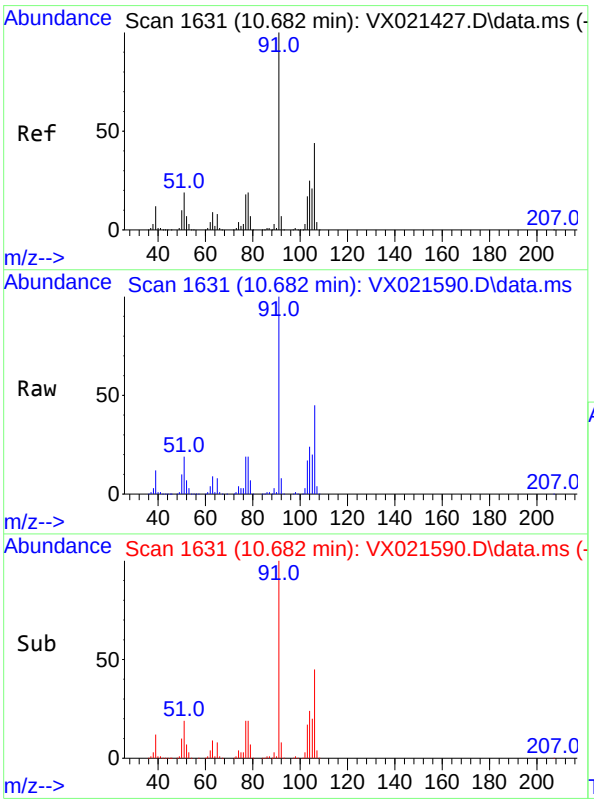


#68
m/p-Xylenes
Concen: 100.93 ug/l
RT: 10.341 min Scan# 1573
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:106 Resp: 166292

Ion	Ratio	Lower	Upper
106	100		
91	217.7	162.8	244.2

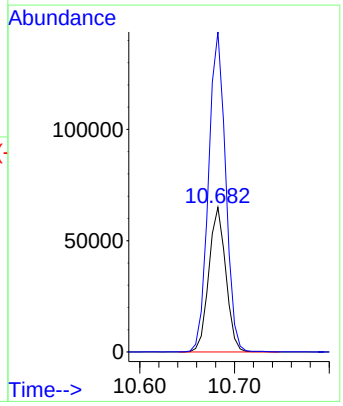




#69
o-Xylene
Concen: 50.72 ug/l
RT: 10.682 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

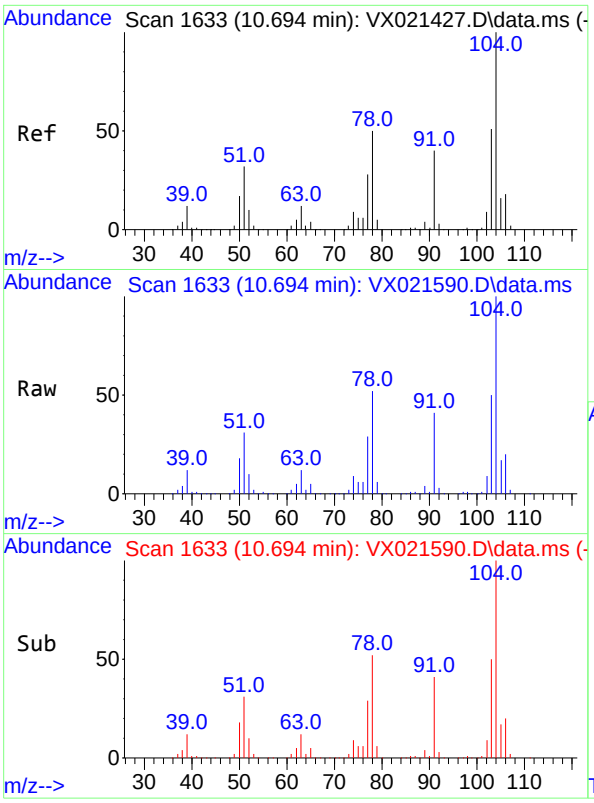
Tgt Ion:106 Resp: 80942

Ion	Ratio	Lower	Upper
106	100		
91	223.0	108.1	324.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

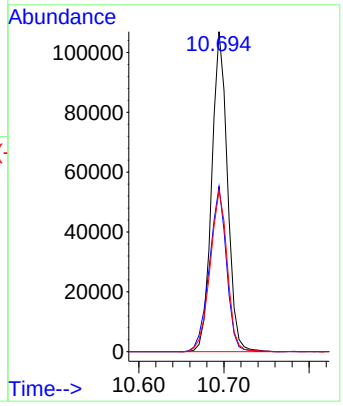
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

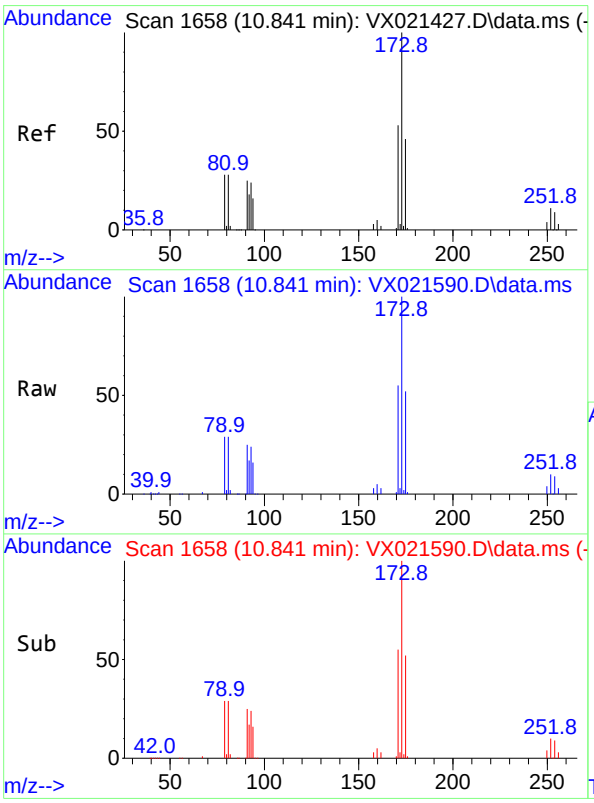


#70
Styrene
Concen: 49.92 ug/l
RT: 10.694 min Scan# 1633
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:104 Resp: 137003

Ion	Ratio	Lower	Upper
104	100		
78	55.9	40.0	60.0
103	55.1	43.4	65.0

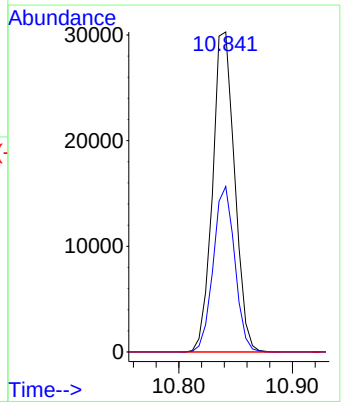




#71
Bromoform
Concen: 51.85 ug/l
RT: 10.841 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

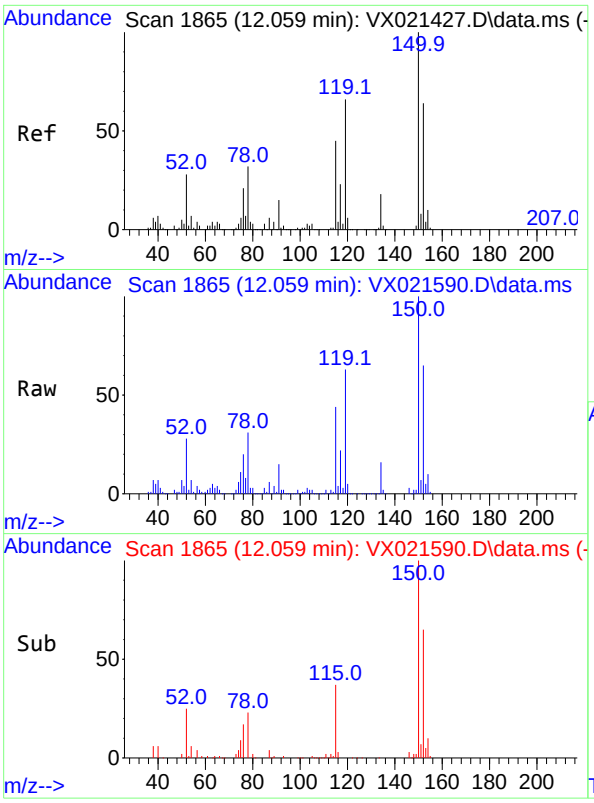
Tgt Ion:173 Resp: 40963

Ion	Ratio	Lower	Upper
173	100		
175	50.2	23.9	71.8
254	0.0	0.1	0.1#



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

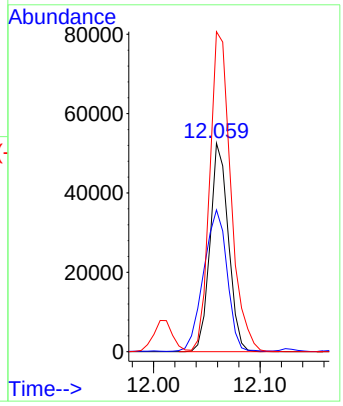
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

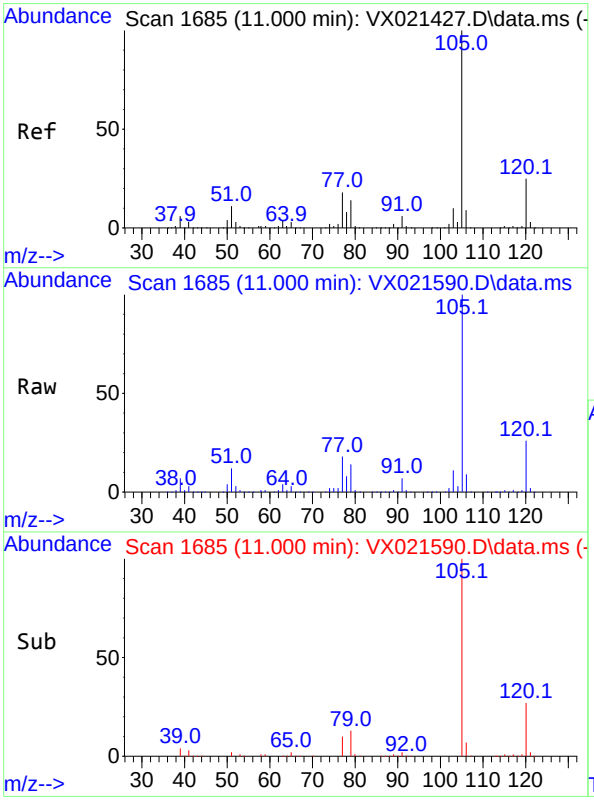


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.059 min Scan# 1865
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:152 Resp: 62506

Ion	Ratio	Lower	Upper
152	100		
115	86.9	41.1	123.3
150	176.8	0.0	349.0

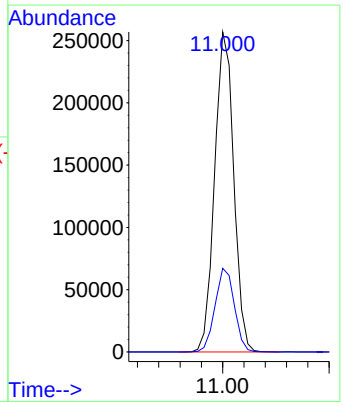




#73
Isopropylbenzene
Concen: 72.65 ug/l
RT: 11.000 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

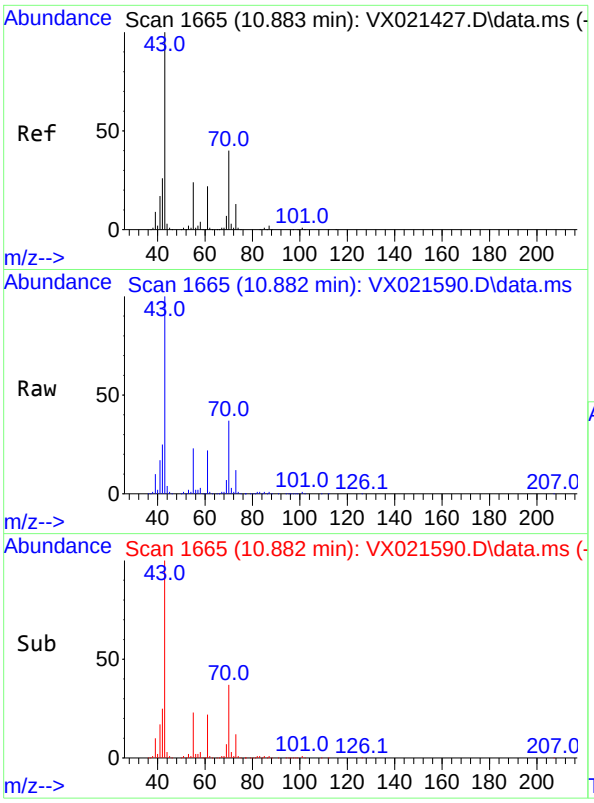
Tgt Ion:105 Resp: 319065

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

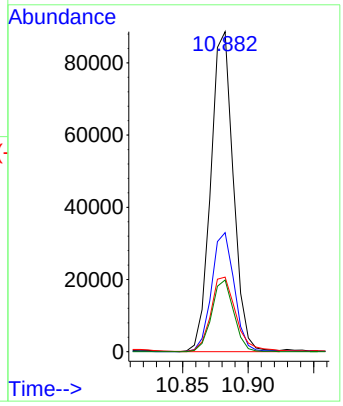
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

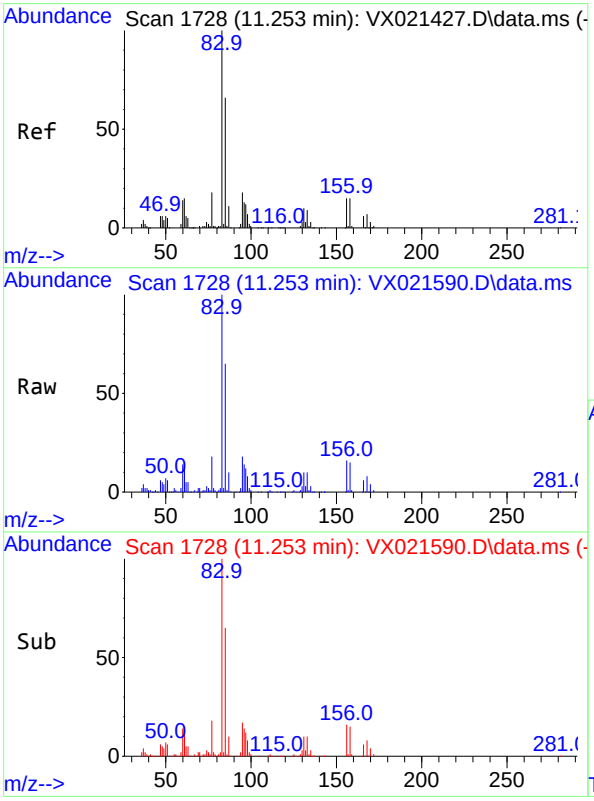


#74
N-amyl acetate
Concen: 49.94 ug/l
RT: 10.882 min Scan# 1665
Delta R.T. -0.001 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 43 Resp: 106130

Ion	Ratio	Lower	Upper
43	100		
70	37.7	39.0	58.6#
55	26.0	21.5	32.3
61	22.0	22.1	33.1#

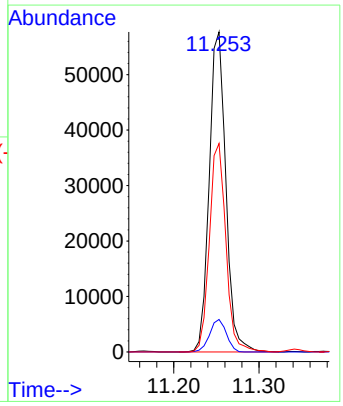




#75
1,1,2,2-Tetrachloroethane
Concen: 50.29 ug/l
RT: 11.253 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

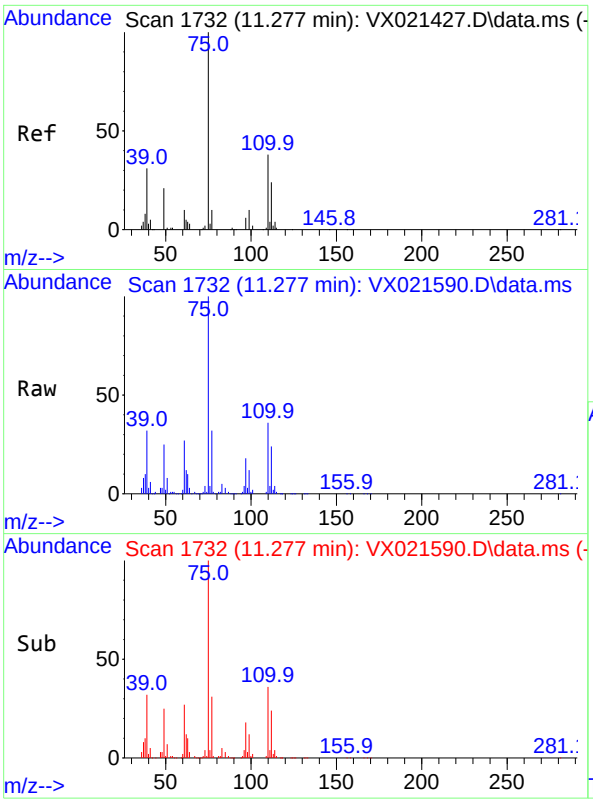
Tgt Ion: 83 Resp: 78037

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.2
85	64.8	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

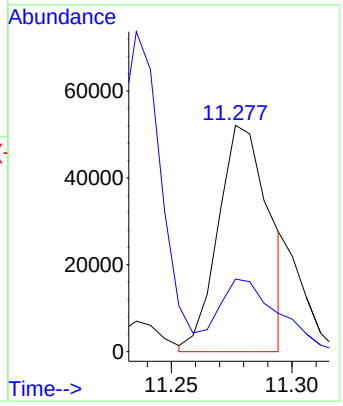
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

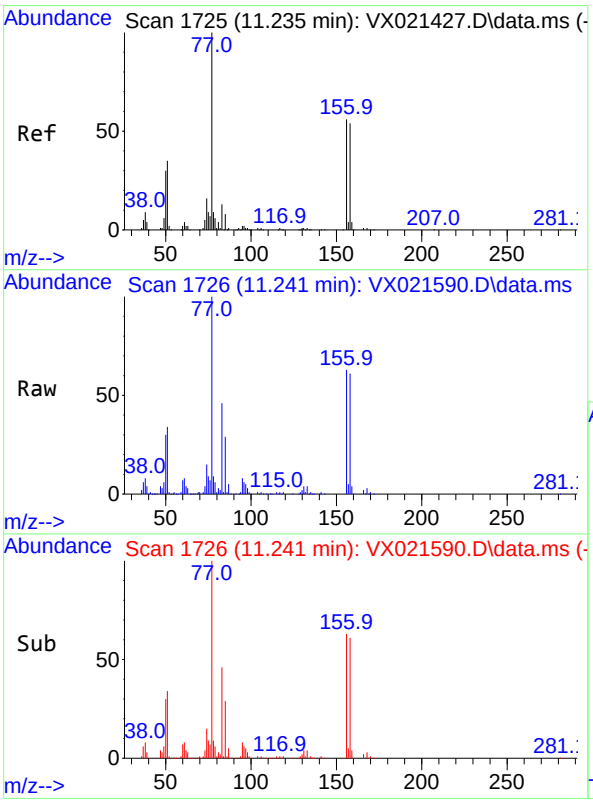


#76
1,2,3-Trichloropropane
Concen: 52.30 ug/l m
RT: 11.277 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 75 Resp: 76105

Ion	Ratio	Lower	Upper
75	100		
77	38.1	19.1	57.5

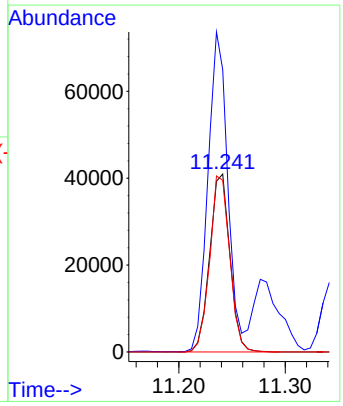




#77
Bromobenzene
Concen: 49.56 ug/l
RT: 11.241 min Scan# 1726
Delta R.T. 0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

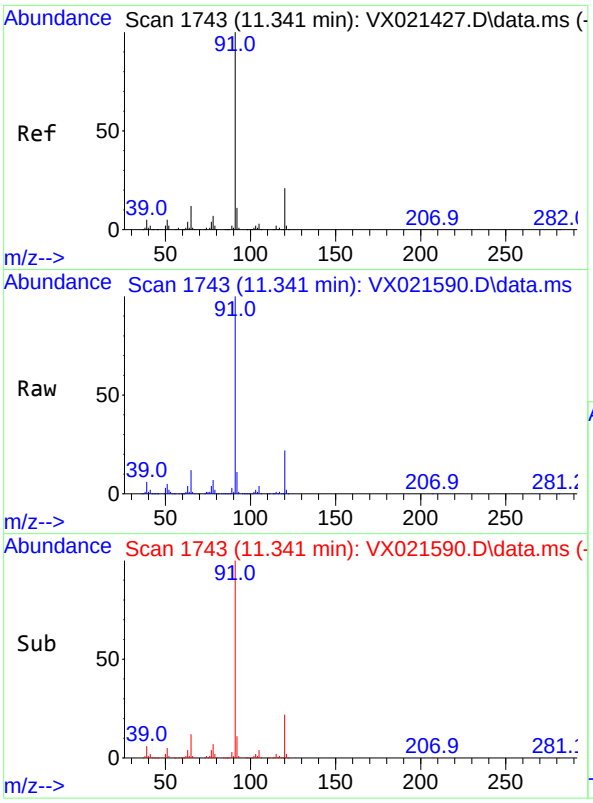
Tgt Ion:156 Resp: 53955

Ion	Ratio	Lower	Upper
156	100		
77	174.3	82.8	248.6
158	97.7	49.1	147.4



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

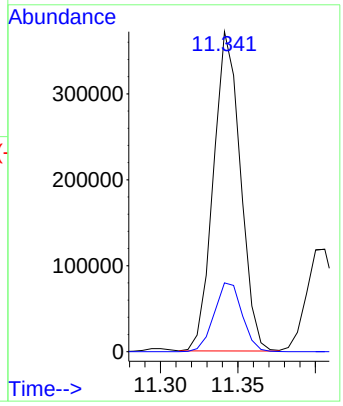
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

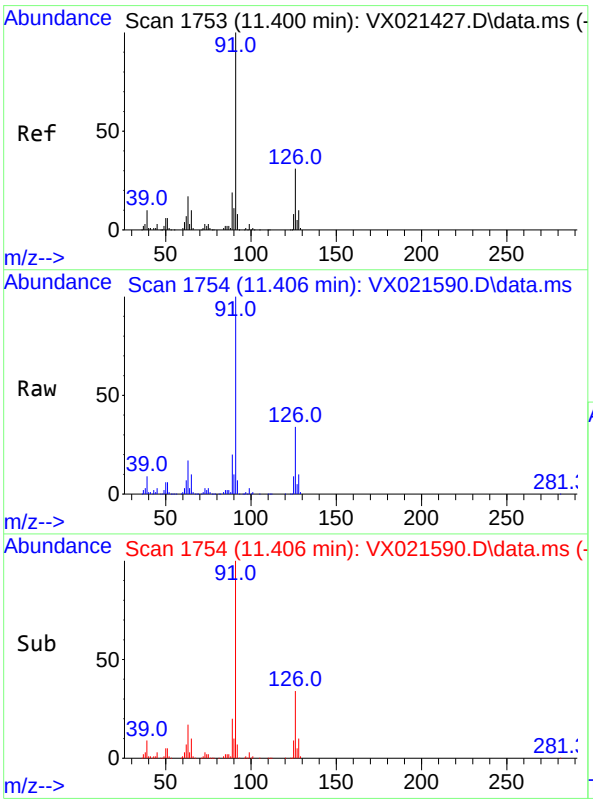


#78
n-propylbenzene
Concen: 86.87 ug/l
RT: 11.341 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 91 Resp: 450578

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.5	34.5

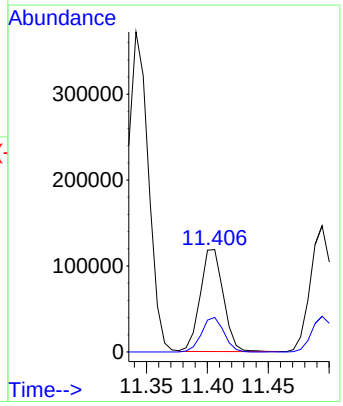




#79
2-Chlorotoluene
Concen: 49.99 ug/l
RT: 11.406 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

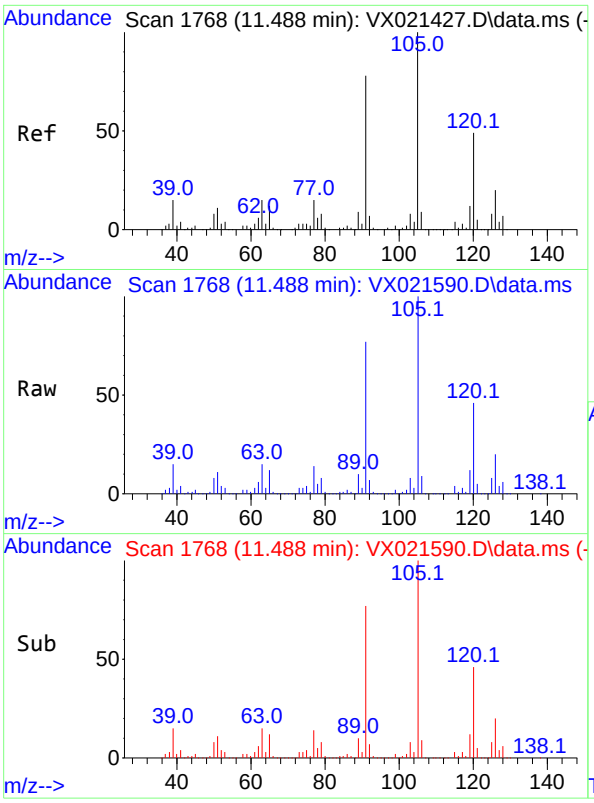
Tgt Ion: 91 Resp: 157280

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.6	49.8



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

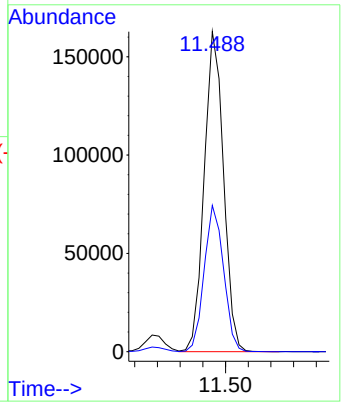
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

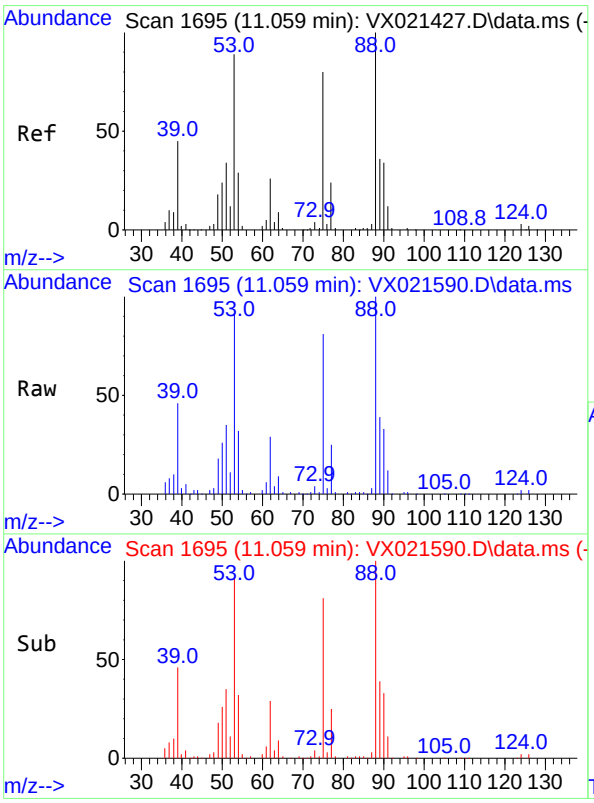


#80
1,3,5-Trimethylbenzene
Concen: 51.22 ug/l
RT: 11.488 min Scan# 1768
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:105 Resp: 192203

Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.8	71.5

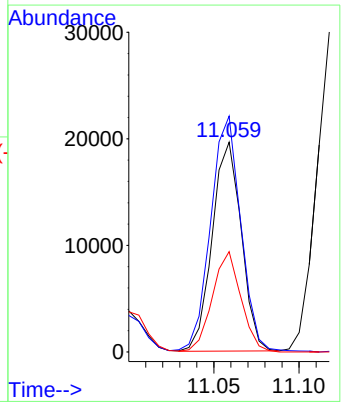




#81
trans-1,4-Dichloro-2-butene
Concen: 48.78 ug/l
RT: 11.059 min Scan# 1695
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

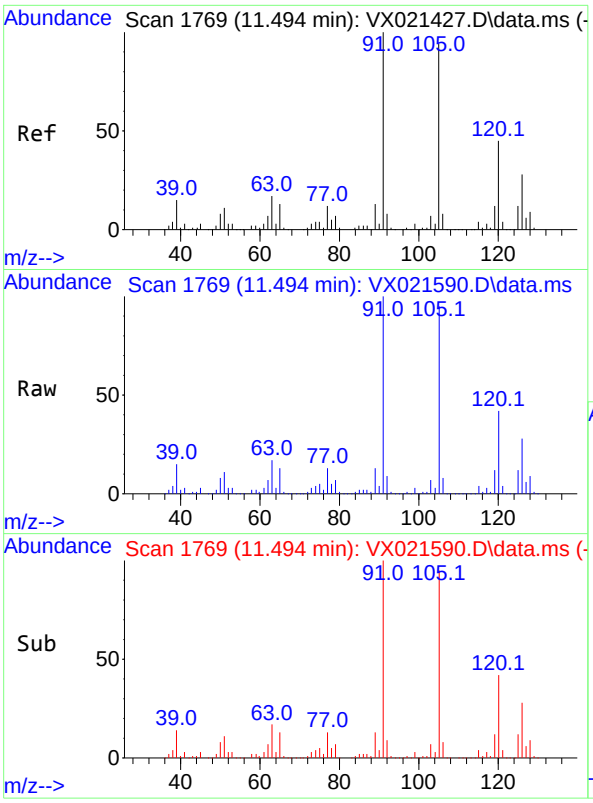
Tgt Ion: 75 Resp: 23305

Ion	Ratio	Lower	Upper
75	100		
53	117.7	74.5	111.7#
89	47.2	37.9	56.9



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

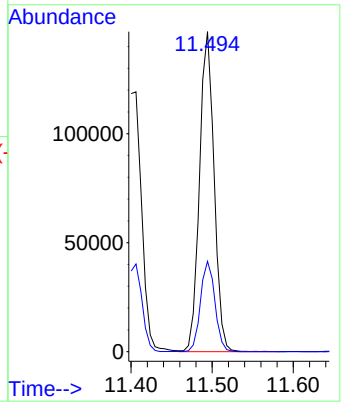
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

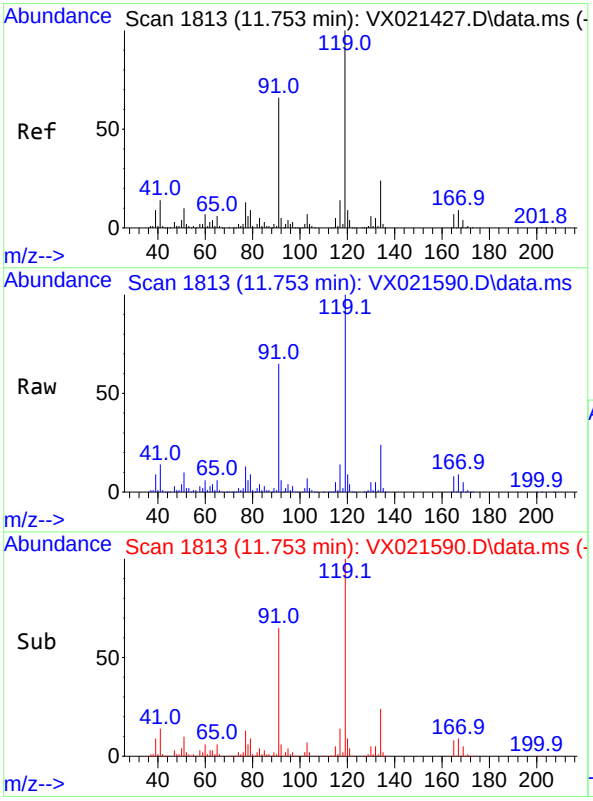


#82
4-Chlorotoluene
Concen: 49.05 ug/l
RT: 11.494 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 91 Resp: 183217

Ion	Ratio	Lower	Upper
91	100		
126	27.9	14.9	44.5

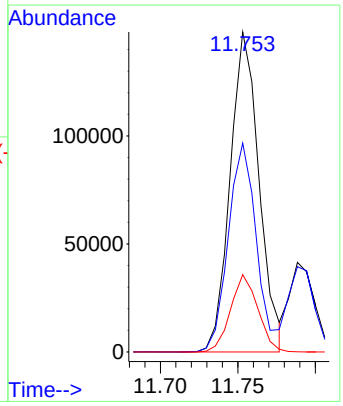




#83
tert-Butylbenzene
Concen: 52.68 ug/l
RT: 11.753 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

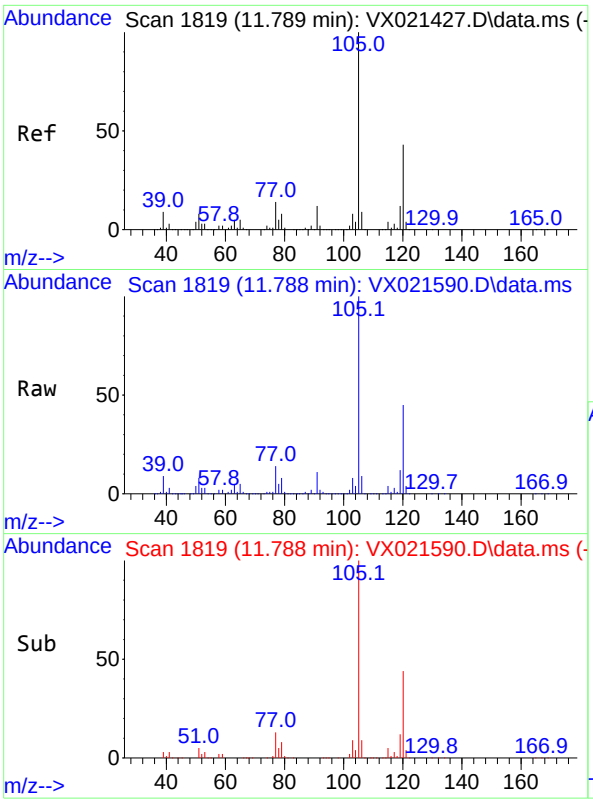
Tgt Ion:119 Resp: 192441

Ion	Ratio	Lower	Upper
119	100		
91	62.0	27.9	83.7
134	22.8	11.3	33.9



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

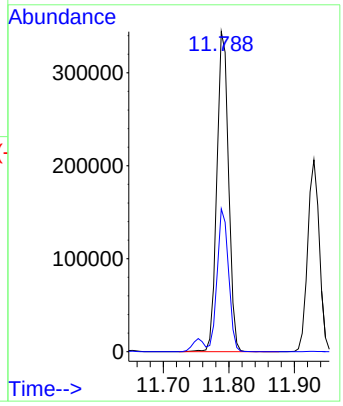
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

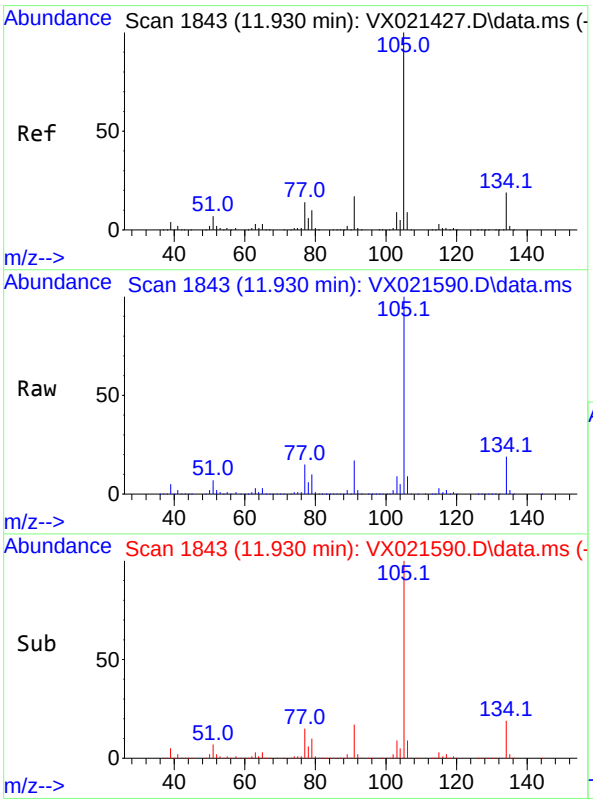


#84
1,2,4-Trimethylbenzene
Concen: 112.71 ug/l
RT: 11.788 min Scan# 1819
Delta R.T. -0.001 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:105 Resp: 426289

Ion	Ratio	Lower	Upper
105	100		
120	43.6	22.4	67.3

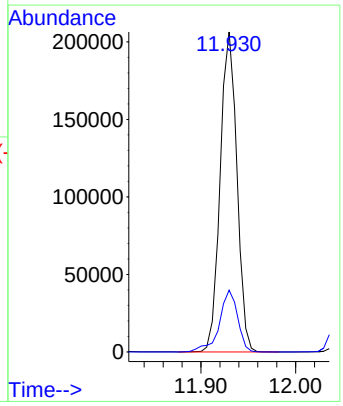




#85
sec-Butylbenzene
Concen: 60.22 ug/l
RT: 11.930 min Scan# 1843
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

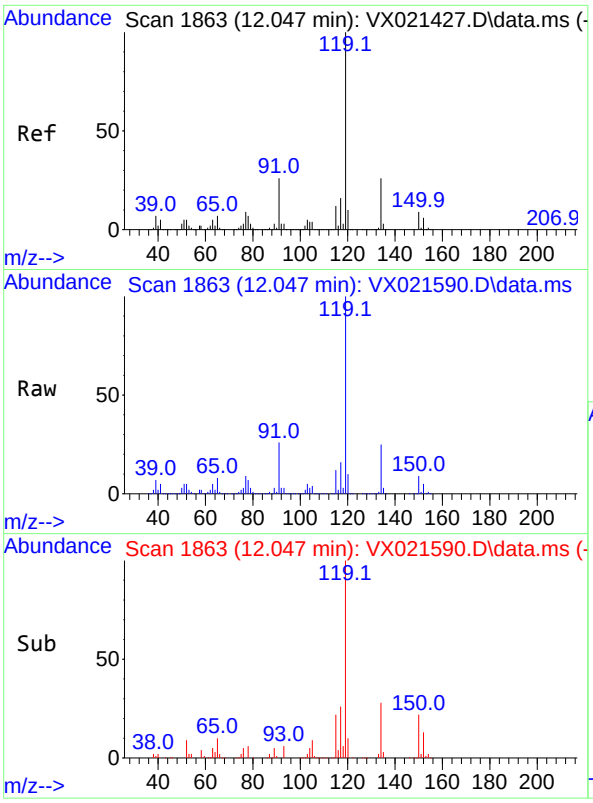
Tgt Ion:105 Resp: 253761

Ion	Ratio	Lower	Upper
105	100		
134	21.2	10.0	29.8



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

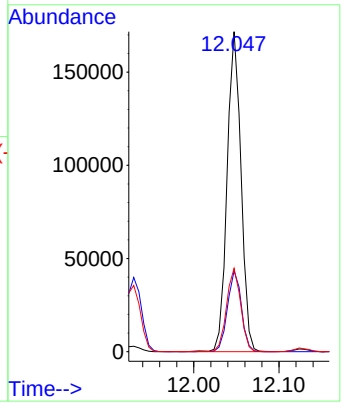
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

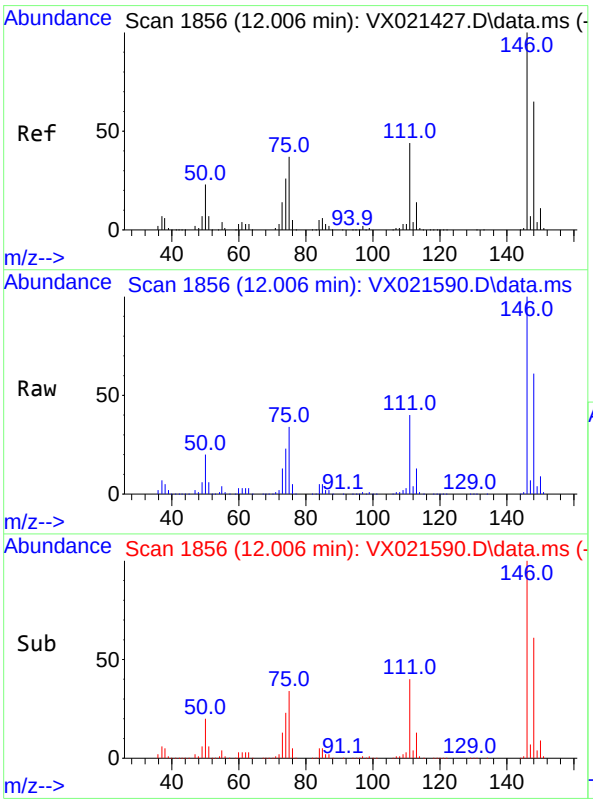


#86
p-Isopropyltoluene
Concen: 50.60 ug/l
RT: 12.047 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:119 Resp: 194101

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.9	38.7
91	26.5	11.7	35.0

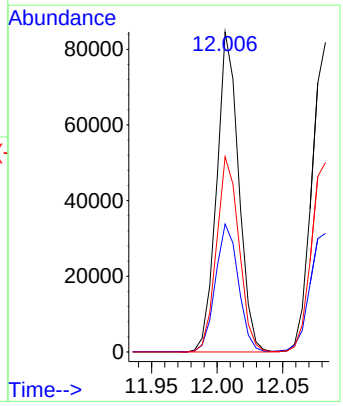




#87
1,3-Dichlorobenzene
Concen: 50.17 ug/l
RT: 12.006 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

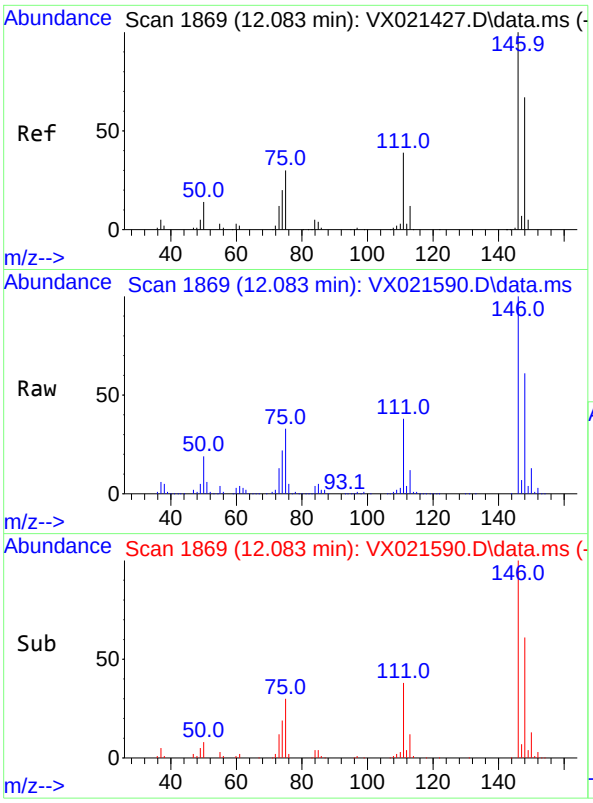
Tgt Ion:146 Resp: 98348

Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.2	60.5
148	62.5	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

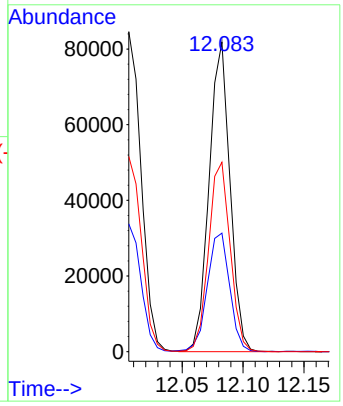
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

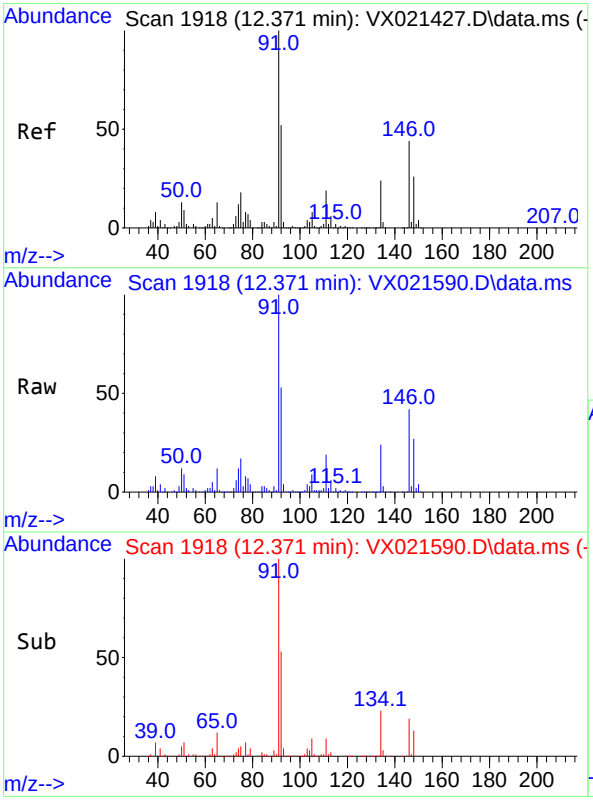


#88
1,4-Dichlorobenzene
Concen: 48.20 ug/l
RT: 12.083 min Scan# 1869
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:146 Resp: 97747

Ion	Ratio	Lower	Upper
146	100		
111	41.1	19.6	58.8
148	63.3	31.6	95.0

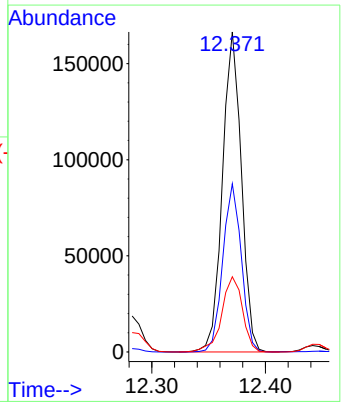




#89
n-Butylbenzene
Concen: 54.84 ug/l
RT: 12.371 min Scan# 1918
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

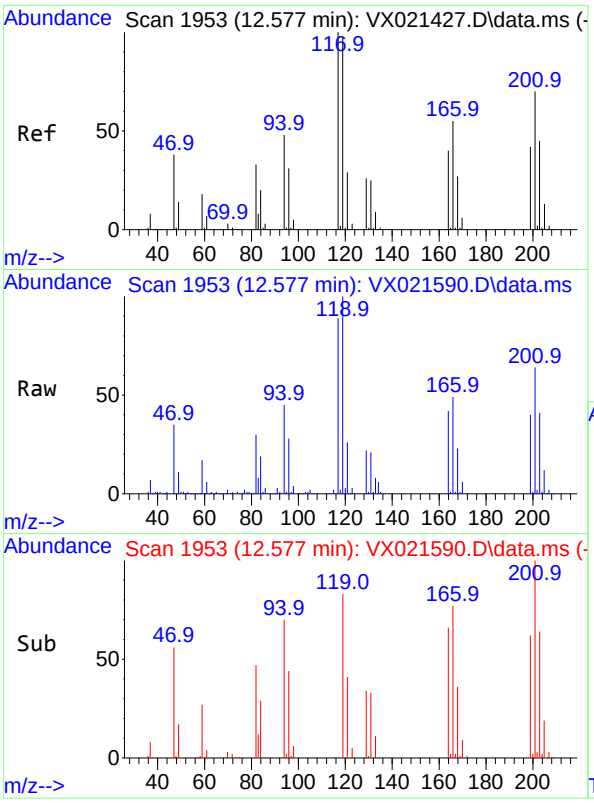
Tgt Ion: 91 Resp: 192711

Ion	Ratio	Lower	Upper
91	100		
92	51.5	27.4	82.0
134	25.9	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

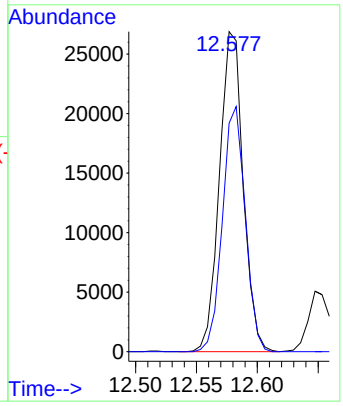
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

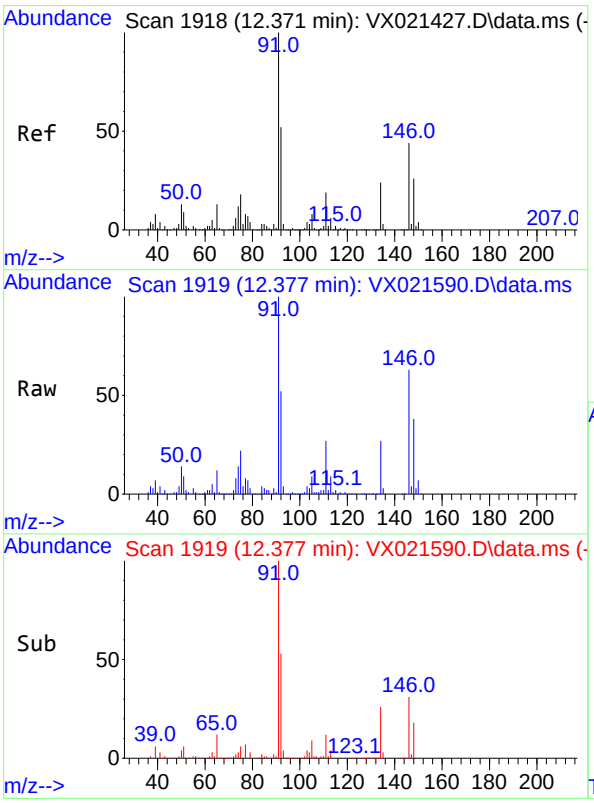


#90
Hexachloroethane
Concen: 52.61 ug/l
RT: 12.577 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:117 Resp: 36417

Ion	Ratio	Lower	Upper
117	100		
201	73.8	40.4	121.2

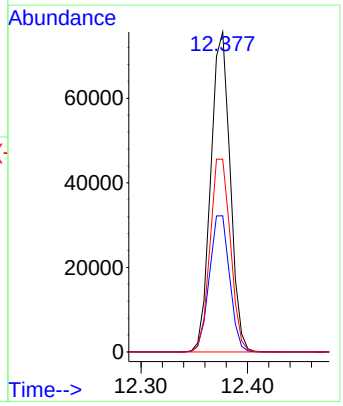




#91
1,2-Dichlorobenzene
Concen: 50.16 ug/l
RT: 12.377 min Scan# 1919
Delta R.T. 0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

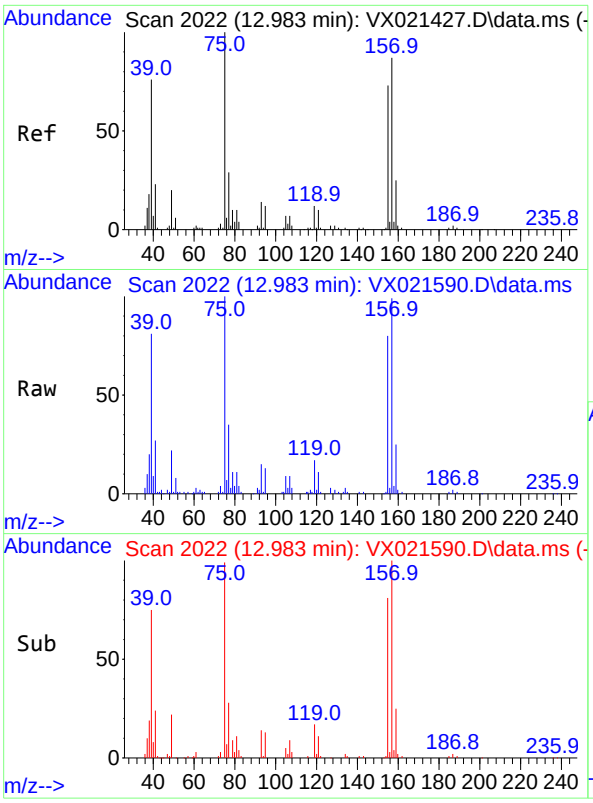
Tgt Ion:146 Resp: 95609

Ion	Ratio	Lower	Upper
146	100		
111	44.4	20.8	62.2
148	63.4	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

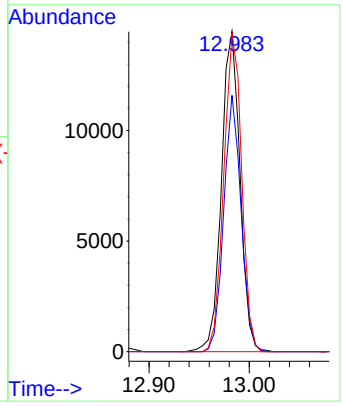
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

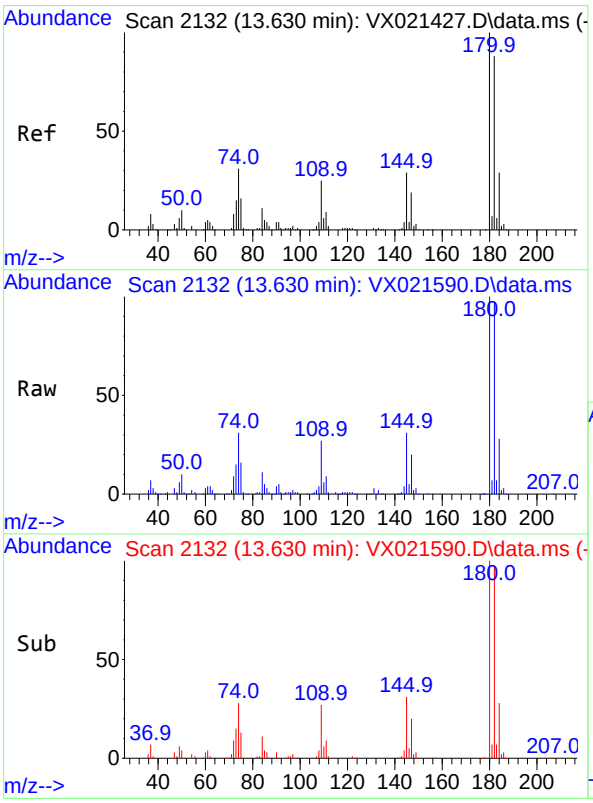


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.54 ug/l
RT: 12.983 min Scan# 2022
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion: 75 Resp: 18553

Ion	Ratio	Lower	Upper
75	100		
155	74.9	45.3	135.9
157	96.1	57.7	173.1

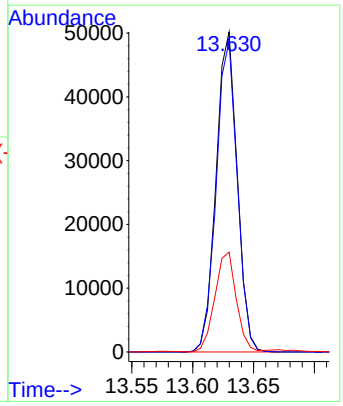




#93
1,2,4-Trichlorobenzene
Concen: 48.49 ug/l
RT: 13.630 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

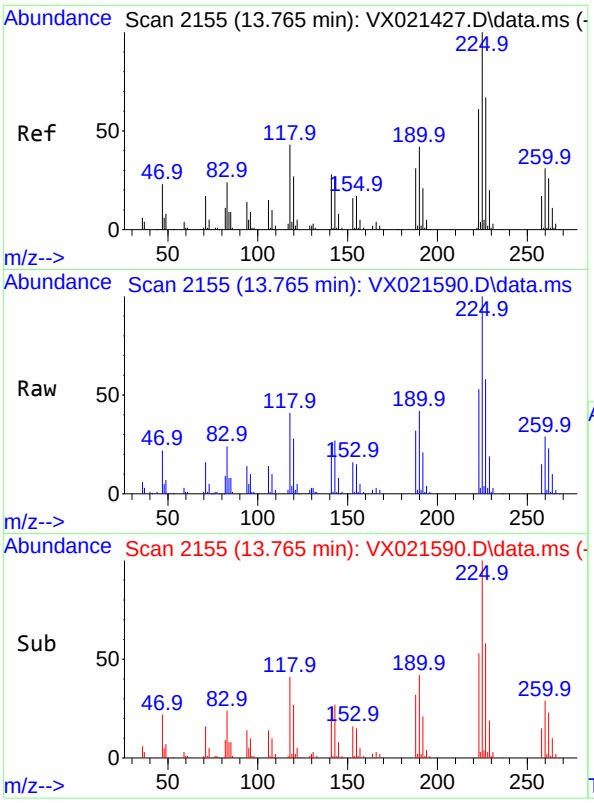
Tgt Ion:180 Resp: 60583

Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.7	143.1
145	31.9	15.0	45.0



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

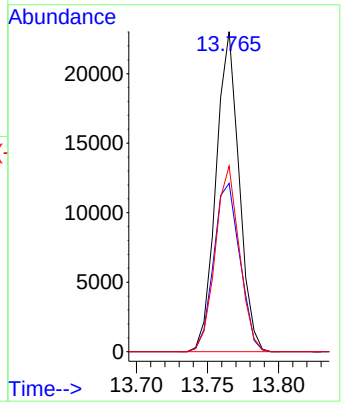
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM

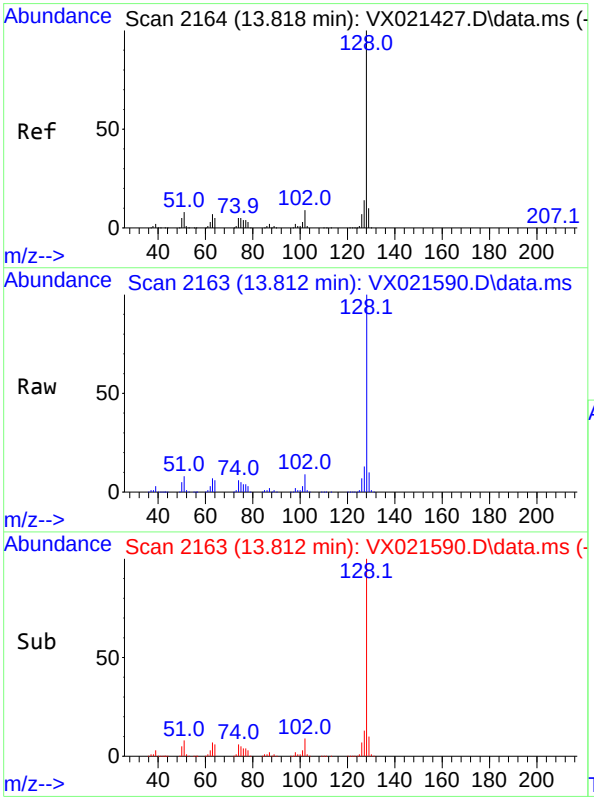


#94
Hexachlorobutadiene
Concen: 46.08 ug/l
RT: 13.765 min Scan# 2155
Delta R.T. 0.000 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:225 Resp: 25982

Ion	Ratio	Lower	Upper
225	100		
223	59.7	31.1	93.2
227	60.5	31.6	95.0

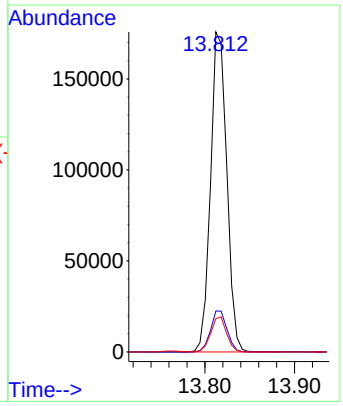




#95
Naphthalene
Concen: 54.28 ug/l
RT: 13.812 min Scan# 2163
Delta R.T. -0.006 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

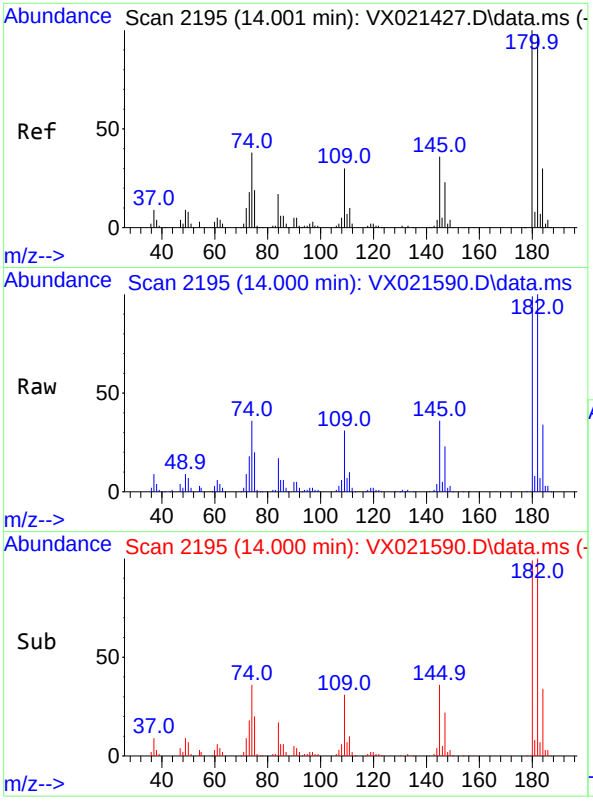
Tgt Ion:128 Resp: 221159

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.7	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
MW-1MSD

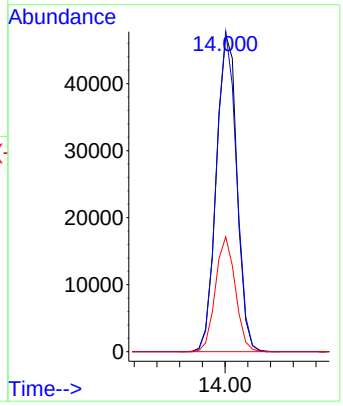
Manual Integrations APPROVED
MMDadoda
3/31/2021 9:58:58 AM



#96
1,2,3-Trichlorobenzene
Concen: 47.76 ug/l
RT: 14.000 min Scan# 2195
Delta R.T. -0.001 min
Lab File: VX021590.D
Acq: 29 Mar 2021 20:21

Tgt Ion:180 Resp: 59642

Ion	Ratio	Lower	Upper
180	100		
182	98.8	47.6	142.9
145	34.8	16.1	48.3



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Manual Integration Report

Sequence:	VX032421	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX021424.D	1,2,3-Trichloropropane	john	3/25/2021 9:12:39 AM	MMDadoda	3/25/2021 9:49:16 AM	Peak Integrated by Software incorrectly
VSTDICC001	VX021424.D	1,4-Dichlorobenzene	john	3/25/2021 9:12:39 AM	MMDadoda	3/25/2021 9:49:16 AM	Peak Integrated by Software incorrectly
VSTDICC005	VX021425.D	1,2,3-Trichloropropane	john	3/25/2021 9:12:43 AM	MMDadoda	3/25/2021 9:49:21 AM	Peak Integrated by Software incorrectly
VSTDICC020	VX021426.D	1,2,3-Trichloropropane	john	3/25/2021 9:12:47 AM	MMDadoda	3/25/2021 9:49:26 AM	Peak Integrated by Software incorrectly
VSTDICCC050	VX021427.D	1,2,3-Trichloropropane	john	3/25/2021 9:12:51 AM	MMDadoda	3/25/2021 9:49:31 AM	Peak Integrated by Software incorrectly
VSTDICC100	VX021428.D	1,2,3-Trichloropropane	john	3/25/2021 9:12:55 AM	MMDadoda	3/25/2021 9:49:35 AM	Peak Integrated by Software incorrectly
VSTDICC150	VX021429.D	1,2,3-Trichloropropane	john	3/25/2021 9:12:59 AM	MMDadoda	3/25/2021 9:49:41 AM	Peak Integrated by Software incorrectly
VSTDICV050	VX021431.D	1,2,3-Trichloropropane	john	3/25/2021 9:13:03 AM	MMDadoda	3/25/2021 9:49:46 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VX021447.D	1,2,3-Trichloropropane	john	3/25/2021 9:13:36 AM	MMDadoda	3/25/2021 9:50:25 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VX021449.D	1,2,3-Trichloropropane	john	3/25/2021 9:13:45 AM	MMDadoda	3/25/2021 9:50:30 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VX021472.D	1,2,3-Trichloropropane	john	3/25/2021 9:14:12 AM	MMDadoda	3/25/2021 9:50:43 AM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence:	vx032921	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX021564.D	1,2,3-Trichloropropane	john	3/30/2021 8:48:07 AM	MMDadoda	3/31/2021 9:41:24 AM	Peak Integrated by Software incorrectly
VX0329WBS01	VX021566.D	1,2,3-Trichloropropane	john	3/30/2021 8:48:11 AM	MMDadoda	3/31/2021 9:41:34 AM	Peak Integrated by Software incorrectly
M1785-10	VX021571.D	1,3,5-Trimethylbenzene	john	3/30/2021 8:48:26 AM	MMDadoda	3/31/2021 12:06:39 PM	Peak Integrated by Software incorrectly
M1785-14DL	VX021573.D	p-Isopropyltoluene	SAM	3/31/2021 6:23:45 PM	MMDadoda	3/31/2021 6:28:25 PM	Peak Integrated by Software incorrectly
M1785-15	VX021574.D	p-Isopropyltoluene	john	3/30/2021 8:48:39 AM	MMDadoda	3/31/2021 12:06:54 PM	Peak Integrated by Software incorrectly
M1785-11MS	VX021589.D	1,2,3-Trichloropropane	john	3/30/2021 8:49:00 AM	MMDadoda	3/31/2021 9:58:51 AM	Peak Integrated by Software incorrectly
M1785-12MSD	VX021590.D	1,2,3-Trichloropropane	john	3/30/2021 8:49:05 AM	MMDadoda	3/31/2021 9:58:58 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VX021591.D	1,2,3-Trichloropropane	john	3/30/2021 8:49:09 AM	MMDadoda	3/31/2021 9:59:04 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VX021593.D	1,2,3-Trichloropropane	john	3/30/2021 8:49:12 AM	MMDadoda	3/30/2021 7:33:11 PM	Peak Integrated by Software incorrectly
VSTDCCC050	VX021615.D	1,2,3-Trichloropropane	john	3/30/2021 8:49:43 AM	MMDadoda	3/30/2021 7:34:15 PM	Peak Integrated by Software incorrectly

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032421

Review By	john	Review On	3/25/2021 9:36:30 AM	
Supervise By	MMDadoda	Supervise On	3/25/2021 9:50:53 AM	
SubDirectory	VX032421	HP Acquire Method		HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP101665,VP101707
Initial Calibration Stds	VP101685,VP101686,VP101687,VP101688,VP101689,VP101690
CCC	VP101666,VP101667,VP1011709,VP101710,.2PPB-VP101713,.5PPB-VP101714,.75PPB-VP101715,2.5PPB-VP101716
Internal Standard/PEM	VP100049
ICV/I.BLK	VP101691

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX021422.D	24 Mar 2021 08:21	JC/MD	Ok
2	VSTDCCC050	VX021423.D	24 Mar 2021 09:27	JC/MD	Not Ok
3	VSTDICC001	VX021424.D	24 Mar 2021 10:04	JC/MD	Ok,M
4	VSTDICC005	VX021425.D	24 Mar 2021 10:26	JC/MD	Ok,M
5	VSTDICC020	VX021426.D	24 Mar 2021 10:49	JC/MD	Ok,M
6	VSTDICCC050	VX021427.D	24 Mar 2021 11:13	JC/MD	Ok,M
7	VSTDICC100	VX021428.D	24 Mar 2021 11:36	JC/MD	Ok,M
8	VSTDICC150	VX021429.D	24 Mar 2021 11:58	JC/MD	Ok,M
9	IBLK	VX021430.D	24 Mar 2021 12:20	JC/MD	Ok
10	VSTDICV050	VX021431.D	24 Mar 2021 12:43	JC/MD	Ok,M
11	VX0324WBL01	VX021432.D	24 Mar 2021 13:51	JC/MD	Ok
12	VX0324WBS01	VX021433.D	24 Mar 2021 14:21	JC/MD	Ok,M
13	VX0324WBSD01	VX021434.D	24 Mar 2021 14:47	JC/MD	Ok,M
14	M1752-13	VX021435.D	24 Mar 2021 15:08	JC/MD	Ok
15	M1752-01	VX021436.D	24 Mar 2021 15:29	JC/MD	Ok
16	M1752-07	VX021437.D	24 Mar 2021 15:50	JC/MD	Ok
17	M1735-10	VX021438.D	24 Mar 2021 16:10	JC/MD	Ok
18	M1735-17	VX021439.D	24 Mar 2021 16:34	JC/MD	Ok
19	M1458-07 .2PPB	VX021440.D	24 Mar 2021 16:55	JC/MD	Ok,M
20	M1458-07 .5PPB	VX021441.D	24 Mar 2021 17:15	JC/MD	Ok,M
21	M1458-07 .75PPB	VX021442.D	24 Mar 2021 17:36	JC/MD	Ok,M
22	M1458-07 2.5PPB	VX021443.D	24 Mar 2021 17:59	JC/MD	Ok,M
23	M1774-02	VX021444.D	24 Mar 2021 18:23	JC/MD	Ok
24	M1774-04	VX021445.D	24 Mar 2021 18:46	JC/MD	Ok
25	M1774-03	VX021446.D	24 Mar 2021 19:10	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032421

Review By	john	Review On	3/25/2021 9:36:30 AM
Supervise By	MMDadoda	Supervise On	3/25/2021 9:50:53 AM
SubDirectory	VX032421	HP Acquire Method	HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP101665,VP101707
Initial Calibration Stds	VP101685,VP101686,VP101687,VP101688,VP101689,VP101690
CCC	VP101666,VP101667,VP1011709,VP101710,.2PPB-VP101713,.5PPB-VP101714,.75PPB-VP101715,2.5PPB-VP101716
Internal Standard/PEM	VP100049
ICV/I.BLK	VP101691

26	VSTDCCC050	VX021447.D	24 Mar 2021 19:33	JC/MD	Ok,M
27	BFB	VX021448.D	24 Mar 2021 20:43	JC/MD	Ok
28	VSTDCCC050	VX021449.D	24 Mar 2021 21:07	JC/MD	Ok,M
29	VX0324WBL02	VX021450.D	24 Mar 2021 21:54	JC/MD	Ok
30	VX0324WBS02	VX021451.D	24 Mar 2021 22:17	JC/MD	Ok,M
31	VX0324WBSD02	VX021452.D	24 Mar 2021 22:40	JC/MD	Ok,M
32	M1770-09	VX021453.D	24 Mar 2021 23:04	JC/MD	Ok
33	M1787-01	VX021454.D	24 Mar 2021 23:27	JC/MD	Ok
34	M1770-18	VX021455.D	24 Mar 2021 23:51	JC/MD	ReRun
35	M1770-10	VX021456.D	25 Mar 2021 00:14	JC/MD	Ok
36	M1770-11	VX021457.D	25 Mar 2021 00:38	JC/MD	Ok
37	M1770-12	VX021458.D	25 Mar 2021 01:01	JC/MD	Ok
38	M1770-13	VX021459.D	25 Mar 2021 01:25	JC/MD	Ok
39	M1770-14	VX021460.D	25 Mar 2021 01:48	JC/MD	Ok
40	M1770-15	VX021461.D	25 Mar 2021 02:12	JC/MD	Ok
41	M1770-16	VX021462.D	25 Mar 2021 02:35	JC/MD	Ok
42	M1770-17	VX021463.D	25 Mar 2021 02:59	JC/MD	Ok
43	M1787-02	VX021464.D	25 Mar 2021 03:22	JC/MD	Dilution
44	M1787-06	VX021465.D	25 Mar 2021 03:46	JC/MD	Dilution
45	M1787-07	VX021466.D	25 Mar 2021 04:09	JC/MD	Dilution
46	M1787-08	VX021467.D	25 Mar 2021 04:32	JC/MD	Dilution
47	M1787-09	VX021468.D	25 Mar 2021 04:56	JC/MD	Dilution
48	M1787-10	VX021469.D	25 Mar 2021 05:19	JC/MD	Dilution
49	M1787-13	VX021470.D	25 Mar 2021 05:43	JC/MD	ReRun
50	M1787-14	VX021471.D	25 Mar 2021 06:06	JC/MD	Dilution
51	VSTDCCC050	VX021472.D	25 Mar 2021 06:29	JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032921

Review By	john	Review On	3/30/2021 9:19:41 AM		
Supervise By	MMDadoda	Supervise On	3/31/2021 12:09:08 PM		
SubDirectory	VX032921	HP Acquire Method	MSVOA_X	HP Processing Method	82X032421W.M

STD. NAME	STD REF.#
Tune/Reschk	VP101846, VP101847
Initial Calibration Stds	VP101685,VP101686,VP101687,VP101688,VP101689,VP101690
CCC	VP101842 ,VP101843,VP101844,VP101845
Internal Standard/PEM	VP100049
ICV/I.BLK	VP101691

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX021563.D	29 Mar 2021 09:02	JC/MD	Ok
2	VSTDCCC050	VX021564.D	29 Mar 2021 09:35	JC/MD	Ok,M
3	VX0329WBL01	VX021565.D	29 Mar 2021 10:36	JC/MD	Ok
4	VX0329WBS01	VX021566.D	29 Mar 2021 10:59	JC/MD	Ok,M
5	VX0329WBSD01	VX021567.D	29 Mar 2021 11:22	JC/MD	Ok,M
6	M1787-11	VX021568.D	29 Mar 2021 11:46	JC/MD	Dilution
7	M1787-12	VX021569.D	29 Mar 2021 12:09	JC/MD	Dilution
8	M1787-17	VX021570.D	29 Mar 2021 12:32	JC/MD	Dilution
9	M1785-10	VX021571.D	29 Mar 2021 12:55	JC/MD	Ok,M
10	M1785-13	VX021572.D	29 Mar 2021 13:18	JC/MD	Not Ok
11	M1785-14DL	VX021573.D	29 Mar 2021 13:42	JC/MD	Ok,M
12	M1785-15	VX021574.D	29 Mar 2021 14:05	JC/MD	Ok,M
13	M1785-16	VX021575.D	29 Mar 2021 14:29	JC/MD	Not Ok
14	M1785-18	VX021576.D	29 Mar 2021 14:52	JC/MD	Ok
15	M1787-17DL	VX021577.D	29 Mar 2021 15:16	JC/MD	Ok
16	M1785-17	VX021578.D	29 Mar 2021 15:39	JC/MD	Ok
17	M1785-13	VX021579.D	29 Mar 2021 16:02	JC/MD	Ok
18	M1785-14	VX021580.D	29 Mar 2021 16:26	JC/MD	Dilution
19	M1785-16	VX021581.D	29 Mar 2021 16:49	JC/MD	Ok
20	M1860-03	VX021582.D	29 Mar 2021 17:13	JC/MD	Ok
21	M1860-01	VX021583.D	29 Mar 2021 17:36	JC/MD	Ok
22	M1860-02	VX021584.D	29 Mar 2021 18:00	JC/MD	Ok
23	M1862-04	VX021585.D	29 Mar 2021 18:23	JC/MD	Ok
24	M1862-01	VX021586.D	29 Mar 2021 18:47	JC/MD	Ok
25	M1862-02	VX021587.D	29 Mar 2021 19:10	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032921

Review By	john	Review On	3/30/2021 9:19:41 AM		
Supervise By	MMDadoda	Supervise On	3/31/2021 12:09:08 PM		
SubDirectory	VX032921	HP Acquire Method	MSVOA_X	HP Processing Method	82X032421W.M

STD. NAME	STD REF.#
Tune/Reschk	VP101846, VP101847
Initial Calibration Stds	VP101685,VP101686,VP101687,VP101688,VP101689,VP101690
CCC	VP101842 ,VP101843,VP101844,VP101845
Internal Standard/PEM	VP100049
ICV/I.BLK	VP101691

26	M1862-03	VX021588.D	29 Mar 2021 19:34	JC/MD	Ok
27	M1785-11MS	VX021589.D	29 Mar 2021 19:57	JC/MD	Ok,M
28	M1785-12MSD	VX021590.D	29 Mar 2021 20:21	JC/MD	Ok,M
29	VSTDCCC050	VX021591.D	29 Mar 2021 20:44	JC/MD	Ok,M
30	BFB	VX021592.D	29 Mar 2021 21:08	JC/MD	Ok
31	VSTDCCC050	VX021593.D	29 Mar 2021 21:56	JC/MD	Ok,M
32	VX0329WBL02	VX021594.D	29 Mar 2021 22:43	JC/MD	Ok
33	VX0329WBS02	VX021595.D	29 Mar 2021 23:06	JC/MD	Ok,M
34	M1843-18	VX021596.D	29 Mar 2021 23:30	JC/MD	ReRun
35	M1843-19	VX021597.D	29 Mar 2021 23:53	JC/MD	ReRun
36	M1843-01	VX021598.D	30 Mar 2021 00:17	JC/MD	Ok
37	M1843-02	VX021599.D	30 Mar 2021 00:40	JC/MD	Dilution
38	M1843-03	VX021600.D	30 Mar 2021 01:03	JC/MD	Dilution
39	M1843-04	VX021601.D	30 Mar 2021 01:27	JC/MD	Ok
40	M1843-07	VX021602.D	30 Mar 2021 01:50	JC/MD	Dilution
41	M1843-08	VX021603.D	30 Mar 2021 02:14	JC/MD	ReRun
42	M1843-09	VX021604.D	30 Mar 2021 02:37	JC/MD	Dilution
43	M1843-10	VX021605.D	30 Mar 2021 03:01	JC/MD	ReRun
44	M1843-11	VX021606.D	30 Mar 2021 03:24	JC/MD	Ok
45	M1843-12	VX021607.D	30 Mar 2021 03:47	JC/MD	Dilution
46	M1843-13	VX021608.D	30 Mar 2021 04:11	JC/MD	Dilution
47	M1843-14	VX021609.D	30 Mar 2021 04:34	JC/MD	Dilution
48	M1843-15	VX021610.D	30 Mar 2021 04:58	JC/MD	Ok
49	M1843-16	VX021611.D	30 Mar 2021 05:21	JC/MD	Ok
50	M1843-17	VX021612.D	30 Mar 2021 05:45	JC/MD	Dilution
51	M1843-05MS	VX021613.D	30 Mar 2021 06:08	JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032921

Review By	john	Review On	3/30/2021 9:19:41 AM		
Supervise By	MMDadoda	Supervise On	3/31/2021 12:09:08 PM		
SubDirectory	VX032921	HP Acquire Method	MSVOA_X	HP Processing Method	82X032421W.M

STD. NAME	STD REF.#
Tune/Reschk	VP101846, VP101847
Initial Calibration Stds	VP101685,VP101686,VP101687,VP101688,VP101689,VP101690
CCC	VP101842 ,VP101843,VP101844,VP101845
Internal Standard/PEM	VP100049
ICV/I.BLK	VP101691

52	M1843-06MSD	VX021614.D	30 Mar 2021 06:31	JC/MD	Ok,M
53	VSTDCCC050	VX021615.D	30 Mar 2021 06:54	JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032421

Review By	john	Review On	3/25/2021 9:36:30 AM
Supervise By	MMDadoda	Supervise On	3/25/2021 9:50:53 AM
SubDirectory	VX032421	HP Acquire Method	HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP101665,VP101707
Initial Calibration Stds	VP101685,VP101686,VP101687,VP101688,VP101689,VP101690
CCC	VP101666,VP101667,VP1011709,VP101710,.2PPB-VP101713,.5PPB-VP101714,.75PPB-VP101715,2.5PPB-VP101716
Internal Standard/PEM	VP100049
ICV/I.BLK	VP101691

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX021422.D	24 Mar 2021 08:21		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX021423.D	24 Mar 2021 09:27	need ical	JC/MD	Not Ok
3	VSTDICC001	VSTDICC001	VX021424.D	24 Mar 2021 10:04	good for DOD	JC/MD	Ok,M
4	VSTDICC005	VSTDICC005	VX021425.D	24 Mar 2021 10:26		JC/MD	Ok,M
5	VSTDICC020	VSTDICC020	VX021426.D	24 Mar 2021 10:49		JC/MD	Ok,M
6	VSTDICCC050	VSTDICCC050	VX021427.D	24 Mar 2021 11:13		JC/MD	Ok,M
7	VSTDICC100	VSTDICC100	VX021428.D	24 Mar 2021 11:36		JC/MD	Ok,M
8	VSTDICC150	VSTDICC150	VX021429.D	24 Mar 2021 11:58		JC/MD	Ok,M
9	IBLK	IBLK	VX021430.D	24 Mar 2021 12:20		JC/MD	Ok
10	VSTDICV050	ICVVX032421	VX021431.D	24 Mar 2021 12:43	pH#Lot#V11255	JC/MD	Ok,M
11	VX0324WBL01	VX0324WBL01	VX021432.D	24 Mar 2021 13:51		JC/MD	Ok
12	VX0324WBS01	VX0324WBS01	VX021433.D	24 Mar 2021 14:21		JC/MD	Ok,M
13	VX0324WBSD01	VX0324WBSD01	VX021434.D	24 Mar 2021 14:47		JC/MD	Ok,M
14	M1752-13	30816	VX021435.D	24 Mar 2021 15:08	vial A pH<2	JC/MD	Ok
15	M1752-01	COMP1-41711-41714:1	VX021436.D	24 Mar 2021 15:29	vial A pH<2	JC/MD	Ok
16	M1752-07	COMP2-41720:23-4171	VX021437.D	24 Mar 2021 15:50	vial A pH<2	JC/MD	Ok
17	M1735-10	RE132D6-20210315	VX021438.D	24 Mar 2021 16:10	vial B pH<2	JC/MD	Ok
18	M1735-17	DUP01-20210316	VX021439.D	24 Mar 2021 16:34	vial A pH<2	JC/MD	Ok
19	M1458-07 .2PPB	LOD-MDL-WATER-01-(	VX021440.D	24 Mar 2021 16:55		JC/MD	Ok,M
20	M1458-07 .5PPB	LOD-MDL-WATER-01-(	VX021441.D	24 Mar 2021 17:15		JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032421

Review By	john	Review On	3/25/2021 9:36:30 AM
Supervise By	MMDadoda	Supervise On	3/25/2021 9:50:53 AM
SubDirectory	VX032421	HP Acquire Method	HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP101665,VP101707
Initial Calibration Stds	VP101685,VP101686,VP101687,VP101688,VP101689,VP101690
CCC	VP101666,VP101667,VP1011709,VP101710,.2PPB-VP101713,.5PPB-VP101714,.75PPB-VP101715,2.5PPB-VP101716
Internal Standard/PEM	VP100049
ICV/I.BLK	VP101691

21	M1458-07 .75PPB	LOD-MDL-WATER-01-(	VX021442.D	24 Mar 2021 17:36		JC/MD	Ok,M
22	M1458-07 2.5PPB	LOD-MDL-WATER-01-(	VX021443.D	24 Mar 2021 17:59		JC/MD	Ok,M
23	M1774-02	30806	VX021444.D	24 Mar 2021 18:23	vial A pH<2	JC/MD	Ok
24	M1774-04	30808	VX021445.D	24 Mar 2021 18:46	vial A pH<2	JC/MD	Ok
25	M1774-03	30807	VX021446.D	24 Mar 2021 19:10	vial A pH<2	JC/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VX021447.D	24 Mar 2021 19:33		JC/MD	Ok,M
27	BFB	BFB	VX021448.D	24 Mar 2021 20:43		JC/MD	Ok
28	VSTDCCC050	VSTDCCC050	VX021449.D	24 Mar 2021 21:07		JC/MD	Ok,M
29	VX0324WBL02	VX0324WBL02	VX021450.D	24 Mar 2021 21:54		JC/MD	Ok
30	VX0324WBS02	VX0324WBS02	VX021451.D	24 Mar 2021 22:17		JC/MD	Ok,M
31	VX0324WBSD02	VX0324WBSD02	VX021452.D	24 Mar 2021 22:40		JC/MD	Ok,M
32	M1770-09	TB-03232021	VX021453.D	24 Mar 2021 23:04	vial A pH<2 TB	JC/MD	Ok
33	M1787-01	TB-02-20210318	VX021454.D	24 Mar 2021 23:27	vial A pH<2 TB	JC/MD	Ok
34	M1770-18	FB-03232021	VX021455.D	24 Mar 2021 23:51	vial A pH<2 FB, Hit of Comp. #16	JC/MD	ReRun
35	M1770-10	MW-106D	VX021456.D	25 Mar 2021 00:14	vial A pH<2	JC/MD	Ok
36	M1770-11	MW-104D	VX021457.D	25 Mar 2021 00:38	vial A pH<2	JC/MD	Ok
37	M1770-12	MW-104I	VX021458.D	25 Mar 2021 01:01	vial A pH<2	JC/MD	Ok
38	M1770-13	MW-103D	VX021459.D	25 Mar 2021 01:25	vial A pH<2	JC/MD	Ok
39	M1770-14	MW-103I	VX021460.D	25 Mar 2021 01:48	vial A pH<2	JC/MD	Ok
40	M1770-15	MW-101S	VX021461.D	25 Mar 2021 02:12	vial A pH<2	JC/MD	Ok
41	M1770-16	MW-101I	VX021462.D	25 Mar 2021 02:35	vial A pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032421

Review By	john	Review On	3/25/2021 9:36:30 AM
Supervise By	MMDadoda	Supervise On	3/25/2021 9:50:53 AM
SubDirectory	VX032421	HP Acquire Method	HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk	VP101665,VP101707
Initial Calibration Stds	VP101685,VP101686,VP101687,VP101688,VP101689,VP101690
CCC	VP101666,VP101667,VP1011709,VP101710,.2PPB-VP101713,.5PPB-VP101714,.75PPB-VP101715,2.5PPB-VP101716
Internal Standard/PEM	VP100049
ICV/I.BLK	VP101691

42	M1770-17	MW-101D	VX021463.D	25 Mar 2021 02:59	vial A pH<2	JC/MD	Ok
43	M1787-02	TT180D2-20210318	VX021464.D	25 Mar 2021 03:22	vial A pH<2 Need 5X	JC/MD	Dilution
44	M1787-06	RE-103D2-20210318	VX021465.D	25 Mar 2021 03:46	vial A pH<2 Need 20X	JC/MD	Dilution
45	M1787-07	RE-103D1-20210318	VX021466.D	25 Mar 2021 04:09	vial A pH<2 Need 10X	JC/MD	Dilution
46	M1787-08	RE-125D1-20210319	VX021467.D	25 Mar 2021 04:32	vial A pH<2 Need 4X	JC/MD	Dilution
47	M1787-09	RE-125D2-20210319	VX021468.D	25 Mar 2021 04:56	vial A pH<2 Need 5X	JC/MD	Dilution
48	M1787-10	RE-125D3-20210319	VX021469.D	25 Mar 2021 05:19	vial A pH<2 Need 4X	JC/MD	Dilution
49	M1787-13	RE-122D3-20210319	VX021470.D	25 Mar 2021 05:43	vial A pH<2 E Flag of Previous sample	JC/MD	ReRun
50	M1787-14	RE-126D2-20210319	VX021471.D	25 Mar 2021 06:06	vial A pH<2 Need 10X	JC/MD	Dilution
51	VSTDCCC050	VSTDCCC050EC	VX021472.D	25 Mar 2021 06:29		JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032921

Review By	john	Review On	3/30/2021 9:19:41 AM		
Supervise By	MMDadoda	Supervise On	3/31/2021 12:09:08 PM		
SubDirectory	VX032921	HP Acquire Method	MSVOA_X	HP Processing Method	82X032421W.M

STD. NAME	STD REF.#
Tune/Reschk	VP101846, VP101847
Initial Calibration Stds	VP101685,VP101686,VP101687,VP101688,VP101689,VP101690
CCC	VP101842 ,VP101843,VP101844,VP101845
Internal Standard/PEM	VP100049
ICV/I.BLK	VP101691

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX021563.D	29 Mar 2021 09:02		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX021564.D	29 Mar 2021 09:35	pH#Lot#V11255	JC/MD	Ok,M
3	VX0329WBL01	VX0329WBL01	VX021565.D	29 Mar 2021 10:36		JC/MD	Ok
4	VX0329WBS01	VX0329WBS01	VX021566.D	29 Mar 2021 10:59		JC/MD	Ok,M
5	VX0329WBSD01	VX0329WBSD01	VX021567.D	29 Mar 2021 11:22		JC/MD	Ok,M
6	M1787-11	RE-122D2-20210319	VX021568.D	29 Mar 2021 11:46	vial B pH<2 need 100X	JC/MD	Dilution
7	M1787-12	RE-122D1-20210319	VX021569.D	29 Mar 2021 12:09	vial B pH<2 Need 10X	JC/MD	Dilution
8	M1787-17	DUP03-20210319	VX021570.D	29 Mar 2021 12:32	vial A pH<2 Need 4X	JC/MD	Dilution
9	M1785-10	MW-1	VX021571.D	29 Mar 2021 12:55	vial A pH<2	JC/MD	Ok,M
10	M1785-13	MW-2	VX021572.D	29 Mar 2021 13:18	Run @ 10X	JC/MD	Not Ok
11	M1785-14DL	MW-3RDL	VX021573.D	29 Mar 2021 13:42		JC/MD	Ok,M
12	M1785-15	MW-4	VX021574.D	29 Mar 2021 14:05	vial A pH<2	JC/MD	Ok,M
13	M1785-16	MW-5R	VX021575.D	29 Mar 2021 14:29	Run @ 10X	JC/MD	Not Ok
14	M1785-18	TRIP-BLANK	VX021576.D	29 Mar 2021 14:52	vial A pH<2 TB	JC/MD	Ok
15	M1787-17DL	DUP03-20210319DL	VX021577.D	29 Mar 2021 15:16	vial B pH<2	JC/MD	Ok
16	M1785-17	FD-032321	VX021578.D	29 Mar 2021 15:39	vial A pH<2	JC/MD	Ok
17	M1785-13	MW-2	VX021579.D	29 Mar 2021 16:02	vial A pH<2	JC/MD	Ok
18	M1785-14	MW-3R	VX021580.D	29 Mar 2021 16:26	Need Further 4X	JC/MD	Dilution
19	M1785-16	MW-5R	VX021581.D	29 Mar 2021 16:49	vial A pH<2	JC/MD	Ok
20	M1860-03	EB-01-032621	VX021582.D	29 Mar 2021 17:13	vial A pH<2 EB	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032921

Review By	john	Review On	3/30/2021 9:19:41 AM		
Supervise By	MMDadoda	Supervise On	3/31/2021 12:09:08 PM		
SubDirectory	VX032921	HP Acquire Method	MSVOA_X	HP Processing Method	82X032421W.M

STD. NAME	STD REF.#
Tune/Reschk	VP101846, VP101847
Initial Calibration Stds	VP101685,VP101686,VP101687,VP101688,VP101689,VP101690
CCC	VP101842 ,VP101843,VP101844,VP101845
Internal Standard/PEM	VP100049
ICV/I.BLK	VP101691

21	M1860-01	GWBR3-115-137-03262	VX021583.D	29 Mar 2021 17:36	vial A pH<2	JC/MD	Ok
22	M1860-02	TB-01-032621	VX021584.D	29 Mar 2021 18:00	vial A pH<2 TB	JC/MD	Ok
23	M1862-04	MW-2	VX021585.D	29 Mar 2021 18:23	vial A pH<2	JC/MD	Ok
24	M1862-01	MW-1	VX021586.D	29 Mar 2021 18:47	vial A pH<2	JC/MD	Ok
25	M1862-02	MW-3	VX021587.D	29 Mar 2021 19:10	vial A pH<2	JC/MD	Ok
26	M1862-03	MW-4	VX021588.D	29 Mar 2021 19:34	vial A pH<2	JC/MD	Ok
27	M1785-11MS	MW-1MS	VX021589.D	29 Mar 2021 19:57	vial A pH<2	JC/MD	Ok,M
28	M1785-12MSD	MW-1MSD	VX021590.D	29 Mar 2021 20:21	vial A pH<2	JC/MD	Ok,M
29	VSTDCCC050	VSTDCCC050EC	VX021591.D	29 Mar 2021 20:44		JC/MD	Ok,M
30	BFB	BFB	VX021592.D	29 Mar 2021 21:08		JC/MD	Ok
31	VSTDCCC050	VSTDCCC050	VX021593.D	29 Mar 2021 21:56		JC/MD	Ok,M
32	VX0329WBL02	VX0329WBL02	VX021594.D	29 Mar 2021 22:43		JC/MD	Ok
33	VX0329WBS02	VX0329WBS02	VX021595.D	29 Mar 2021 23:06		JC/MD	Ok,M
34	M1843-18	EB02-20210325	VX021596.D	29 Mar 2021 23:30	vial A pH<2 EB, confirm hit	JC/MD	ReRun
35	M1843-19	FB01-20210325	VX021597.D	29 Mar 2021 23:53	vial A pH<2 FB, confirm hit	JC/MD	ReRun
36	M1843-01	MW178I-20210324	VX021598.D	30 Mar 2021 00:17	vial A pH<2	JC/MD	Ok
37	M1843-02	MW179D1-20210324	VX021599.D	30 Mar 2021 00:40	vial A pH<2 Need 4X	JC/MD	Dilution
38	M1843-03	MW179D2-20210324	VX021600.D	30 Mar 2021 01:03	vial A pH<2 Need 5X	JC/MD	Dilution
39	M1843-04	MW179D-20210324	VX021601.D	30 Mar 2021 01:27	vial A pH<2	JC/MD	Ok
40	M1843-07	RE137-20210324	VX021602.D	30 Mar 2021 01:50	vial A pH<2 Need 20X	JC/MD	Dilution
41	M1843-08	DUP06-20210324	VX021603.D	30 Mar 2021 02:14	vial A pH<2 E Flag of Previous sample	JC/MD	ReRun

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032921

Review By	john	Review On	3/30/2021 9:19:41 AM		
Supervise By	MMDadoda	Supervise On	3/31/2021 12:09:08 PM		
SubDirectory	VX032921	HP Acquire Method	MSVOA_X	HP Processing Method	82X032421W.M

STD. NAME	STD REF.#
Tune/Reschk	VP101846, VP101847
Initial Calibration Stds	VP101685,VP101686,VP101687,VP101688,VP101689,VP101690
CCC	VP101842 ,VP101843,VP101844,VP101845
Internal Standard/PEM	VP100049
ICV/I.BLK	VP101691

42	M1843-09	DUP07-20210324	VX021604.D	30 Mar 2021 02:37	vial A pH<2 Need 4X	JC/MD	Dilution
43	M1843-10	RE117D2-20210325	VX021605.D	30 Mar 2021 03:01	vial A pH<2 E Flag of Previous sample	JC/MD	ReRun
44	M1843-11	RE117D1-20210325	VX021606.D	30 Mar 2021 03:24	vial A pH<2	JC/MD	Ok
45	M1843-12	RE115D1-20210325	VX021607.D	30 Mar 2021 03:47	vial A pH<2 Need 5X	JC/MD	Dilution
46	M1843-13	RE115D2-20210325	VX021608.D	30 Mar 2021 04:11	vial A pH<2 Need 10X	JC/MD	Dilution
47	M1843-14	RE114D1-20210325	VX021609.D	30 Mar 2021 04:34	vial A pH<2 Need 5X	JC/MD	Dilution
48	M1843-15	RE114D2-20210325	VX021610.D	30 Mar 2021 04:58	vial A pH<2	JC/MD	Ok
49	M1843-16	GM38-RW3-MW01-202	VX021611.D	30 Mar 2021 05:21	vial A pH<2	JC/MD	Ok
50	M1843-17	DUP08-20210325	VX021612.D	30 Mar 2021 05:45	vial A pH<2 Need 5X	JC/MD	Dilution
51	M1843-05MS	MW179D-20210324MS	VX021613.D	30 Mar 2021 06:08	vial A pH<2	JC/MD	Ok,M
52	M1843-06MSD	MW179D-20210324MS	VX021614.D	30 Mar 2021 06:31	vial A pH<2	JC/MD	Ok,M
53	VSTDCCC050	VSTDCCC050EC	VX021615.D	30 Mar 2021 06:54		JC/MD	Ok,M

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Prep Standard - Chemical Standard Summary

Order ID : M1785

Test : VOCMS Group2

Prepbatch ID :

Sequence ID/Qc Batch ID: vx032921,

Standard ID :
VP100006,VP100007,VP100049,VP100098,VP100438,VP100440,VP100582,VP100584,VP100695,VP101192,VP101195,VP101197,VP101685,VP101686,VP101687,VP101688,VP101689,VP101690,VP101691,VP101724,VP101842,VP101843,VP101844,VP101845,VP101846,VP99051,VP99335,VP99969,VP99970,

Chemical ID :
V10264,V10592,V10597,V10685,V10700,V10703,V10707,V10710,V10779,V10780,V10781,V10782,V10933,V10963,V11039,V11167,V11168,V11169,V11170,V11172,V11173,V11178,V11192,V11193,V11194,V11195,V11196,V11197,V11198,V11199,V11207,V11214,V11242,V11243,V11248,V11256,V11257,V11258,V11259,V11321,V11322,V11333,V11334,V11463,V11464,V11467,V11540,V11541,V11542,V11546,V11592,V11593,V11604,V11607,V11610,V11612,V11636,V11637,V11740,V11761,V11762,V11763,V11764,V11765,V11766,V8726,V9527,V9528,VP101847,W2606,

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
253	8260 Working STD (BCM)-First source, 20PPM	VP100006	01/22/2021	07/21/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/25/2021

FROM 0.25000ml of V10710 + 24.75000ml of V11593 = 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	VP100007	01/22/2021	07/21/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/25/2021

FROM 1.20000ml of V10700 + 1.20000ml of V10707 + 1.20000ml of V10710 + 1.40000ml of V10703 + 20.00000ml of V11593 = 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	VP100049	01/25/2021	07/25/2021	Semsettin Yesilyurt	None	None	Amit Patel 01/28/2021

FROM 0.25000ml of V10264 + 24.75000ml of V11592 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP100098	01/25/2021	07/25/2021	Semsettin Yesilyurt	None	None	Amit Patel 01/28/2021

FROM 0.80000ml of V9528 + 1.20000ml of V9527 + 23.00000ml of V11592 = 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
1810	8260 Working Std(2-CVE)-800ppm	VP100438	02/09/2021	08/09/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 02/09/2021

FROM 1.00000ml of V11256 + 1.00000ml of V11257 + 1.00000ml of V11258 + 1.00000ml of V11259 + 46.00000ml of V11607 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1812	8260 Working Std(2-CVE)-100ppm	VP100440	02/09/2021	08/09/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 02/09/2021

FROM 0.25000ml of V11259 + 24.75000ml of V11607 = 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
257	8260 Calibration Working STD Mix-First source, 160PPM	VP100582	02/15/2021	03/25/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 02/18/2021

FROM 0.40000ml of V11173 + 1.00000ml of V10779 + 1.00000ml of V10780 + 1.00000ml of V11167 + 1.00000ml of V11168 + 1.00000ml of V11192 + 1.00000ml of V11193 + 1.00000ml of V11194 + 1.00000ml of V11198 + 1.00000ml of V11242 + 1.00000ml of V11243 + 1.00000ml of V11321 + 1.00000ml of V11322 + 1.00000ml of V11541 + 1.00000ml of V11542 + 10.60000ml of V11463 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
245	8260 Calibration Working STD Mix-First source, 20PPM	VP100584	02/15/2021	03/25/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 02/18/2021

FROM 17.50000ml of V11463 + 2.50000ml of VP100582 = Final Quantity: 20.000 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	VP100695	02/19/2021	04/06/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 02/22/2021

FROM 0.16000ml of V11178 + 0.40000ml of V11214 + 0.80000ml of V10592 + 0.80000ml of V10933 + 0.80000ml of V10963 + 0.80000ml of V11039 + 0.80000ml of V11248 + 1.20000ml of V11207 + 4.24000ml of V11610 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP101192	03/09/2021	04/06/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/11/2021

FROM 0.60000ml of V11766 + 1.00000ml of V11765 + 8.40000ml of V11604 = Final Quantity: 10.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP101195	03/09/2021	04/08/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/11/2021

FROM 0.40000ml of V11764 + 1.20000ml of V11761 + 1.20000ml of V11762 + 1.20000ml of V11763 + 21.00000ml of V11604 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
180	8260 Working STD (Acrolein)-First source, 100PPM	VP101197	03/09/2021	04/08/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/11/2021

FROM 17.50000ml of V11604 + 2.50000ml of VP101195 = Final Quantity: 20.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
334	1 PPB ICC, 8260-Water	VP101685	03/24/2021	03/25/2021	John Carlone	None	None	Mahesh Dadoda 03/25/2021

FROM 39.98200ml of W2606 + 0.00200ml of VP100006 + 0.00200ml of VP100440 + 0.00200ml of VP100584 + 0.00200ml of VP101197 + 0.00200ml of VP99970 + 0.00800ml of VP100049 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
335	5 PPB ICC, 8260-Water	VP101686	03/24/2021	03/25/2021	John Carlone	None	None	Mahesh Dadoda 03/25/2021

FROM 39.94200ml of W2606 + 0.00800ml of VP100049 + 0.01000ml of VP100006 + 0.01000ml of VP100440 + 0.01000ml of VP100584 + 0.01000ml of VP101197 + 0.01000ml of VP99970 = 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
337	20 PPB ICC, 8260-Water	VP101687	03/24/2021	03/25/2021	John Carlone	None	None	Mahesh Dadoda 03/25/2021

FROM 39.97000ml of W2606 + 0.00200ml of VP100007 + 0.00200ml of VP99969 + 0.00500ml of VP100438 + 0.00500ml of VP100582 + 0.00500ml of VP101195 + 0.00800ml of VP100049 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
380	50 PPB ICC, 8260-Water	VP101688	03/24/2021	03/25/2021	John Carlone	None	None	Mahesh Dadoda 03/25/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP100007 + 0.00500ml of VP99969 + 0.00800ml of VP100049 + 0.01250ml of VP100438 + 0.01250ml of VP100582 + 0.01250ml of VP101195 = 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
381	100 PPB ICC, 8260-Water	VP101689	03/24/2021	03/25/2021	John Carlone	None	None	Mahesh Dadoda 03/25/2021

FROM 39.89700ml of W2606 + 0.00800ml of VP100049 + 0.01000ml of VP100007 + 0.01000ml of VP99969 + 0.02500ml of VP100438 + 0.02500ml of VP100582 + 0.02500ml of VP101195 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
382	150 PPB ICC, 8260-Water	VP101690	03/24/2021	03/25/2021	John Carlone	None	None	Mahesh Dadoda 03/25/2021

FROM 39.84950ml of W2606 + 0.00800ml of VP100049 + 0.01500ml of VP100007 + 0.01500ml of VP99969 + 0.03750ml of VP100438 + 0.03750ml of VP100582 + 0.03750ml of VP101195 = 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
385	50 PPB ICV, 8260-Water	VP101691	03/24/2021	03/25/2021	John Carlone	None	None	Mahesh Dadoda 03/25/2021

FROM 39.92950ml of W2606 + 0.00500ml of VP99969 + 0.00800ml of VP100049 + 0.01250ml of VP100098 + 0.01250ml of VP100695 + 0.01250ml of VP101192 + 0.02000ml of VP99335 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP101724	03/25/2021	05/04/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/29/2021

FROM 0.40000ml of V11172 + 0.40000ml of V11199 + 0.80000ml of V10782 + 0.80000ml of V11334 + 0.80000ml of V11546 + 0.80000ml of V11637 + 1.00000ml of V11170 + 1.20000ml of V10781 + 1.20000ml of V11169 + 1.20000ml of V11195 + 1.20000ml of V11196 + 1.20000ml of V11197 + 1.20000ml of V11333 + 1.20000ml of V11540 + 1.20000ml of V11636 + 10.60000ml of V11740 = 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
620	50 PPB CCC, 8260-Water	VP101842	03/29/2021	03/30/2021	Mahesh Dadoda	None	None	John Carlone 03/31/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP100007 + 0.00500ml of VP99969 + 0.00800ml of VP100049 + 0.01250ml of VP100438 + 0.01250ml of VP101195 + 0.01250ml of VP101724 = 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	VP101843	03/29/2021	03/30/2021	Mahesh Dadoda	None	None	John Carlone 03/31/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP100007 + 0.00500ml of VP99969 + 0.00800ml of VP100049 + 0.01250ml of VP100438 + 0.01250ml of VP101195 + 0.01250ml of VP101724 = 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	VP101844	03/29/2021	03/30/2021	Mahesh Dadoda	None	None	John Carlone 03/31/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP100007 + 0.00500ml of VP99969 + 0.00800ml of VP100049 + 0.01250ml of VP100438 + 0.01250ml of VP101195 + 0.01250ml of VP101724 = 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	VP101845	03/29/2021	03/30/2021	Mahesh Dadoda	None	None	John Carlone 03/31/2021

FROM 39.94450ml of W2606 + 0.00500ml of VP100007 + 0.00500ml of VP99969 + 0.00800ml of VP100049 + 0.01250ml of VP100438 + 0.01250ml of VP101195 + 0.01250ml of VP101724 = 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	VP101846	03/29/2021	03/30/2021	Mahesh Dadoda	None	None	John Carlone 03/31/2021

FROM 39.98400ml of W2606 + 0.01600ml of VP99051 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP99051	12/15/2020	06/15/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/18/2020

FROM 0.25000ml of V10597 + 24.75000ml of V11467 = 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
262	8260 Working STD (BCM)-Second source, 100PPM	VP99335	12/28/2020	06/28/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/29/2020

FROM 1.00000ml of V8726 + 9.00000ml of V11464 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP99969	01/20/2021	07/20/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/22/2021

FROM 0.80000ml of V10685 + 49.20000ml of V11612 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1738	8260 surrogate 20 ppm	VP99970	01/20/2021	07/20/2021	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/22/2021

FROM 0.02000ml of V10685 + 24.99000ml of V11612 = Final Quantity: 25.000 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 #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0153385	07/25/2021	01/25/2021 / SAM	10/01/2019 / sam	V10264

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	A0155430	06/30/2021	02/08/2021 / SAM	01/09/2020 / sam	V10592

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0147670	06/15/2021	12/15/2020 / SAM	01/09/2020 / sam	V10597

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]	A0158153	07/20/2021	01/20/2021 / SAM	02/28/2020 / sam	V10685

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	A0155519	07/21/2021	01/21/2021 / SAM	03/05/2020 / sam	V10700

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	A0155519	07/21/2021	01/21/2021 / SAM	03/05/2020 / sam	V10703

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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	A0155519	07/21/2021	01/21/2021 / SAM	03/05/2020 / sam	V10707

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	A0155519	07/21/2021	01/21/2021 / SAM	03/05/2020 / sam	V10710

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)	050219	08/08/2021	02/08/2021 / SAM	03/18/2020 / sam	V10779

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)	050219	08/08/2021	02/08/2021 / SAM	03/18/2020 / sam	V10780

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)	050219	09/18/2021	03/18/2021 / SAM	03/18/2020 / sam	V10781

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)	050219	09/18/2021	03/18/2021 / SAM	03/18/2020 / sam	V10782

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/ml, PTM, 1ml	A0158115	10/31/2026	12/06/2020 / SAM	04/22/2020 / sam	V10933

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)	050119	07/08/2021	01/08/2021 / SAM	06/05/2020 / sam	V10963

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)	010419	08/08/2021	02/08/2021 / SAM	07/16/2020 / sam	V11039

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)	010719	08/08/2021	02/08/2021 / SAM	08/01/2020 / sam	V11167

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)	010719	08/08/2021	02/08/2021 / SAM	08/01/2020 / sam	V11168

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)	010719	09/18/2021	03/18/2021 / SAM	08/01/2020 / sam	V11169

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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)	010719	09/18/2021	03/18/2021 / SAM	08/01/2020 / sam	V11170

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	A0160703	09/18/2021	03/18/2021 / SAM	08/21/2020 / sam	V11172

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	A0160703	07/08/2021	01/08/2021 / SAM	08/21/2020 / sam	V11173

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	A0158421	08/19/2021	02/19/2021 / SAM	08/21/2020 / sam	V11178

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	A0154174	08/08/2021	02/08/2021 / SAM	08/21/2020 / sam	V11192

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	A0154174	08/08/2021	02/08/2021 / SAM	08/21/2020 / sam	V11193

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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	A0154174	08/08/2021	02/08/2021 / SAM	08/21/2020 / sam	V11194

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	A0154174	09/18/2021	03/18/2021 / SAM	08/21/2020 / sam	V11195

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	A0154174	09/18/2021	03/18/2021 / SAM	08/21/2020 / sam	V11196

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	A0154174	09/18/2021	03/18/2021 / SAM	08/21/2020 / sam	V11197

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	A0154174	08/08/2021	02/08/2021 / SAM	08/21/2020 / sam	V11198

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	A0154174	09/18/2021	03/18/2021 / SAM	08/21/2020 / sam	V11199

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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	A0159420	07/08/2021	01/08/2021 / SAM	08/21/2020 / sam	V11207

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	A0159420	07/08/2021	01/08/2021 / SAM	08/21/2020 / sam	V11214

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	A0164211	08/08/2021	02/08/2021 / SAM	09/14/2020 / sam	V11242

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	A0164211	08/08/2021	02/08/2021 / SAM	09/14/2020 / sam	V11243

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	A0164091	08/08/2021	02/08/2021 / SAM	09/14/2020 / sam	V11248

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)	082620	08/09/2021	02/09/2021 / SAM	09/18/2020 / sam	V11256

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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)	082620	08/09/2021	02/09/2021 / SAM	09/18/2020 / sam	V11257

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)	082620	08/09/2021	02/09/2021 / SAM	09/18/2020 / sam	V11258

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)	082620	08/09/2021	02/09/2021 / SAM	09/18/2020 / sam	V11259

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/ml, PTM, 1ml	A0160196	08/08/2021	02/08/2021 / SAM	10/02/2020 / sam	V11321

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/ml, PTM, 1ml	A0160196	08/08/2021	02/08/2021 / SAM	10/02/2020 / sam	V11322

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/ml, PTM, 1ml	A0160196	09/18/2021	03/18/2021 / SAM	10/02/2020 / sam	V11333

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/ml, PTM, 1ml	A0160196	09/18/2021	03/18/2021 / SAM	10/02/2020 / sam	V11334

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)	0000230446	08/05/2021	02/05/2021 / pedro	10/29/2020 / sam	V11463

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)	0000230446	06/28/2021	12/28/2020 / SAM	10/29/2020 / sam	V11464

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)	0000258810	06/15/2021	12/15/2020 / SAM	10/29/2020 / sam	V11467

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	A0162411	09/18/2021	03/18/2021 / SAM	12/24/2020 / SAM	V11540

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	A0162411	08/08/2021	02/08/2021 / SAM	12/24/2020 / SAM	V11541

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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	A0162411	08/08/2021	02/08/2021 / SAM	12/24/2020 / SAM	V11542

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	A0162411	09/18/2021	03/18/2021 / SAM	12/24/2020 / SAM	V11546

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)	0000258810	07/25/2021	01/25/2021 / SAM	12/30/2020 / SAM	V11592

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)	0000258810	07/21/2021	01/21/2021 / SAM	12/30/2020 / SAM	V11593

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)	0000258810	08/25/2021	02/25/2021 / SAM	12/30/2020 / SAM	V11604

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)	0000230446	08/09/2021	02/09/2021 / SAM	12/30/2020 / SAM	V11607

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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)	0000230446	08/19/2021	02/19/2021 / SAM	12/30/2020 / SAM	V11610

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)	0000230446	07/20/2021	01/20/2021 / SAM	12/30/2020 / SAM	V11612

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	A0168095	09/18/2021	03/18/2021 / SAM	01/22/2021 / SAM	V11636

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	A0168095	09/18/2021	03/18/2021 / SAM	01/22/2021 / SAM	V11637

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)	0000258810	09/22/2021	03/22/2021 / SAM	03/03/2021 / SAM	V11740

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	030821	04/08/2021	03/09/2021 / SAM	03/09/2021 / SAM	V11761

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	030821	04/08/2021	03/09/2021 / SAM	03/09/2021 / SAM	V11762

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	030821	04/08/2021	03/09/2021 / SAM	03/09/2021 / SAM	V11763

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	030821	04/08/2021	03/09/2021 / SAM	03/09/2021 / SAM	V11764

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	030621	04/06/2021	03/09/2021 / SAM	03/09/2021 / SAM	V11765

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	030621	04/06/2021	03/09/2021 / SAM	03/09/2021 / SAM	V11766

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	072918	06/28/2021	12/28/2020 / SAM	07/27/2018 / sam	V8726

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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)	031419	07/25/2021	01/25/2021 / SAM	03/15/2019 / sam	V9527

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)	031419	07/25/2021	01/25/2021 / SAM	03/15/2019 / sam	V9528

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 0000258810
Manufactured Date: 2020/04/01
Expiration Date: 2023/04/01
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	>= 99.9 %	100.0
Residue after Evaporation	<= 1.0000 ppm	0.5000
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.1	<0.01
Water (by KF, coulometric)	<= 0.08 %	< 0.01
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms / Fails	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: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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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. : 30042 **Lot No.:** A0158115

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, 2026 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,003.0 µg/mL	+/- 13.5699 µg/mL +/- 112.5204 µg/mL +/- 115.1432 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,002.2 µg/mL	+/- 13.7609 µg/mL +/- 112.5010 µg/mL +/- 115.1223 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,000.7 µg/mL	+/- 14.3428 µg/mL +/- 112.4884 µg/mL +/- 115.1060 µg/mL	Gravimetric Unstressed Stressed
4	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,000.2 µg/mL	+/- 13.8233 µg/mL +/- 112.3951 µg/mL +/- 115.0136 µg/mL	Gravimetric Unstressed Stressed
5	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,001.0 µg/mL	+/- 13.1358 µg/mL +/- 112.3597 µg/mL +/- 114.9812 µg/mL	Gravimetric Unstressed Stressed
6	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 (Lot MKCJ8658) **Purity** 99%	2,001.8 µg/mL	+/- 13.8031 µg/mL +/- 112.4818 µg/mL +/- 115.1024 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

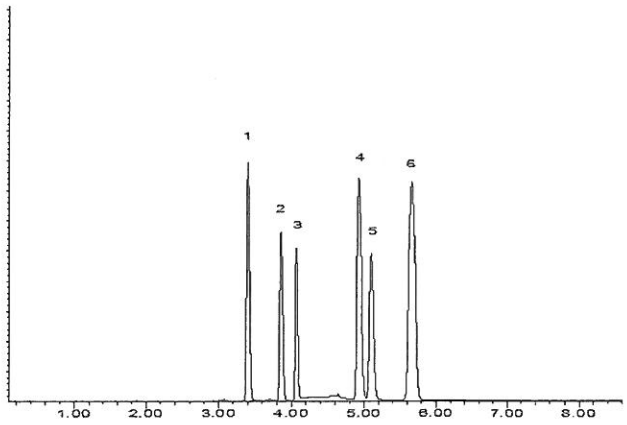
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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: 24-Feb-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 27-Feb-2020

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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 010419
Description: Universal VOA Megamix
69 components
Expiration Date: 010422
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 2684186

Solvent(s): Methanol Lot# DT140Q6

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

Eli Aliaga 010419
Formulated By: Eli Aliaga, DATE

Pedro Rentas 010419
Reviewed By: Pedro L. Rentas DATE

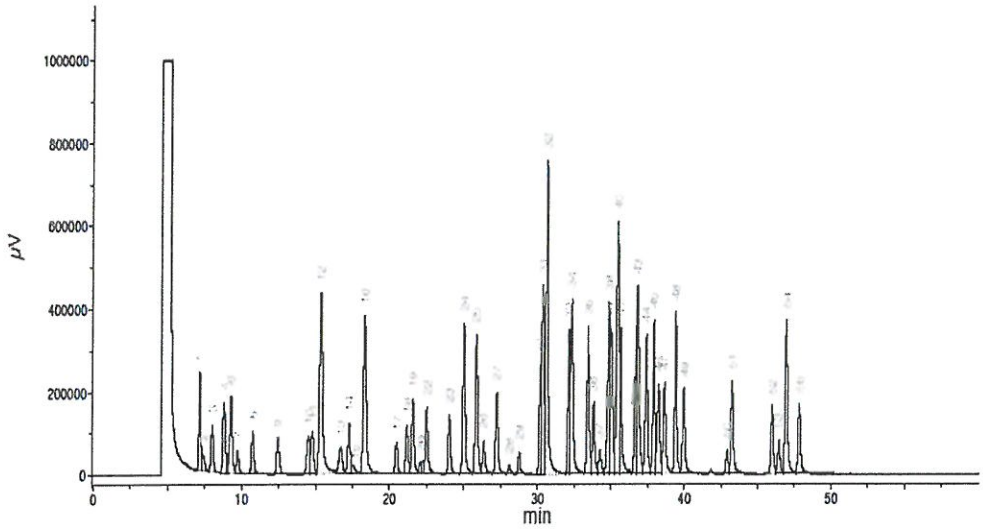
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	060812	NA	NA	NA	2000	99.9	0.2	NA	0.20022	0.20040	2001.8	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	0.20204	0.20210	2000.6	8.1	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKBZ6689V	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	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	0.21055	0.21060	2000.5	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	0.20728	0.20745	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	209453	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20210	2000.6	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20220	2001.6	8.1	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20103	0.20140	2003.7	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	0.20103	0.20110	2000.7	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	0.20204	0.20215	2001.1	8.1	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	0.20022	0.20120	2009.8	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	03021BX	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20225	2002.1	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	0.20204	0.20220	2001.6	8.1	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	95	0.2	NA	0.21055	0.21060	2000.5	8.5	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20410	0.20425	2001.4	8.2	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	8.1	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	051118	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	051118	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.8	15.9	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	051118	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	1999.9	15.8	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	051118	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.8	15.9	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	051118	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	1999.9	15.8	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	122818	0.10	10.00	20005.5	2000	NA	NA	0.042	NA	NA	2000.3	18.7	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	010419	0.10	10.00	20001.3	2000	NA	NA	0.042	NA	NA	1999.9	18.7	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	010419	0.10	10.00	20001.8	2000	NA	NA	0.042	NA	NA	2000.0	18.7	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	010419	0.10	10.00	20000.8	2000	NA	NA	0.042	NA	NA	1999.9	18.7	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	010419	0.10	10.00	20002.1	2000	NA	NA	0.042	NA	NA	2000.0	18.7	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	010419	0.10	10.00	20002.2	2000	NA	NA	0.042	NA	NA	2000.0	18.7	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	052418	0.05	5.00	40001.4	2000	NA	NA	0.017	NA	NA	1999.9	15.8	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	052418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	052418	0.05	5.00	39639.5	2000	NA	NA	0.017	NA	NA	1981.8	24.2	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	052418	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	15.9	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	052418	0.05	5.00	40000.7	2000	NA	NA	0.017	NA	NA	1999.8	16.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	052418	0.05	5.00	40000.9	2000	NA	NA	0.017	NA	NA	1999.8	15.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	052418	0.05	5.00	40000.7	2000	NA	NA	0.017	NA	NA	1999.8	15.9	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	052418	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.8	15.8	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	060418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	060418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	060418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	060418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	060418	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.9	15.8	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	060418	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	060418	0.05	5.00	40000.2	2000	NA	NA	0.017	NA	NA	1999.8	15.9	108-67-8	N/A	N/A
57.	m-Xylene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	051118	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	051118	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.9	15.8	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	051118	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	051118	0.05	5.00	40001.4	2000	NA	NA	0.017	NA	NA	1999.8	15.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	051118	0.05	5.00	40002.3	2000	NA	NA	0.017	NA	NA	1999.9	15.8	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	051118	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.9	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	051118	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	051118	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.9	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	051118	0.05	5.00	40001.1	2000	NA	NA	0.017	NA	NA	1999.8	15.8	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	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 26, "P95317 L010419 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 36000 points at 10 points/second.
Created: Wed, Jan 9, 2019 at 1:40:49 PM.
Sampled: Sequence "010819-GC13M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments
GC13-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 #	Analyte	FID RT (min.)
1	Ether	7.15
2	1,1,2-Trichloro-1,2,2 trifluoroethane	7.37
3	1,1-Dichloroethylene	7.86
4	Acetonitrile	8.80
5	Methylene	9.01
6	Allyl chloride	9.27
7	**Carbon disulfide/Methylene chloride**	9.73
8	trans-1,2-Dichloroethene	10.73
9	1,1-Dichloroethane	12.44
10	2,2-Dichloropropane	14.49
11	cis-1,2-Dichloroethene	14.76
12	**Methacrylonitrile/Methyl acrylate/Chloroform**	15.33
13	**Isobutanol/1,1,1-Trichloroethane**	16.69
14	1,1-Dichloropropene	17.26
15	Carbon tetrachloride	17.72
16	**Benzene/1,2-Dichloroethane**	18.29
17	Trichloroethene	20.45
18	1,2-Dichloropropane	21.17
19	Methyl methacrylate	21.56
20	Bromodichloromethane	22.25
21	Dibromomethane	22.83
22	2-Nitropropane	22.98
23	cis-1,3-Dichloropropene	24.09
24	Toluene	24.97
25	**Ethyl methacrylate/trans-1,3-Dichloropropene**	27.82
26	1,1,2 Trichloroethane	28.23
27	**Tetrachloroethene/1,3-Dichloropropane**	27.70
28	Dibromochloromethane	28.86
29	1,2 Dibromoethane	28.72
30	Chlorobenzene	30.14
31	**Ethylbenzene/1,1,1,2-Tetrachloroethane**	30.32
32	**m-Xylene/p-Xylene**	30.59
33	o-Xylene	32.12
34	Styrene	32.30
35	**Isopropylbenzene/Bromoform**	33.39
36	cis-1,4-Dichloro-2-butene	33.89
37	1,1,2,2 Tetrachloroethane	34.21
38	**1,2,3-Trichloropropane/n-Propylbenzene**	34.82
39	**trans-1,4-Dichloro-2-butene/Bromobenzene**	34.99
40	**1,3,5-Trimethylbenzene/2-Chlorotoluene**	35.42
41	4-Chlorotoluene	35.61
42	tert-Butylbenzene	36.54
43	**1,2,4-Trimethylbenzene/Pentachloroethane**	36.78
44	sec-Butylbenzene	37.38
45	p-Isopropyltoluene	37.91
46	1,3-Dichlorobenzene	38.13
47	1,4-Dichlorobenzene	38.64
48	n-Butylbenzene	39.38
49	1,2-Dichlorobenzene	39.86
50	1,2-Dibromo-3-chloropropane	42.99
51	Nitrobenzene	43.23
52	1,2,4-Trichlorobenzene	45.95
53	Hexachlorobutadiene	46.41
54	Naphthalene	46.90
55	1,2,3-Trichlorobenzene	47.79

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** May 1, 2019

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.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0160196

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 : December 31, 2026 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,000.8 µg/mL	+/- 13.6549 µg/mL +/- 112.4100 µg/mL +/- 115.0297 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,001.1 µg/mL	+/- 13.2219 µg/mL +/- 112.3743 µg/mL +/- 114.9956 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,002.0 µg/mL	+/- 13.9531 µg/mL +/- 112.5119 µg/mL +/- 115.1324 µg/mL	Gravimetric Unstressed Stressed
4	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,000.1 µg/mL	+/- 13.8657 µg/mL +/- 112.3970 µg/mL +/- 115.0153 µg/mL	Gravimetric Unstressed Stressed
5	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	1,999.5 µg/mL	+/- 13.2647 µg/mL +/- 112.2929 µg/mL +/- 114.9120 µg/mL	Gravimetric Unstressed Stressed
6	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 (Lot MKCJ8658) **Purity** 99%	2,001.4 µg/mL	+/- 13.9770 µg/mL +/- 112.4806 µg/mL +/- 115.1001 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

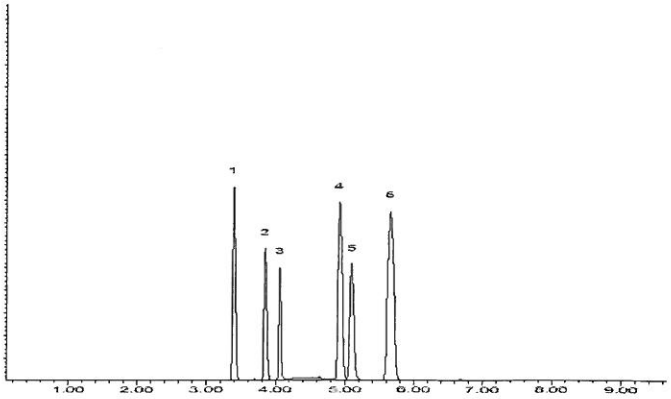
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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 Suckal - Mix Technician

Date Mixed: 22-Apr-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 27-Apr-2020

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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 0000230446
Manufactured Date: 2019/04/11
Expiration Date: 2022/04/10
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	>= 99.9 %	100.0
Residue after Evaporation	<= 1.0000 ppm	0.3000
Titrable Acid (meq/g)	<= 0.3	0.2
Titrable Base (meq/g)	<= 0.1	<0.01
Water (by KF, coulometric)	<= 0.08 %	< 0.01
Photoionization Detection (PID) Below CRQL	Passes Test	PT
Electroconductivity Detection (ELCD) Below CRQL	Passes Test	PT

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: US
Packaging Site: Phillipsburg Mfg Ctr & DC

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 0000258810
Manufactured Date: 2020/04/01
Expiration Date: 2023/04/01
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	>= 99.9 %	100.0
Residue after Evaporation	<= 1.0000 ppm	0.5000
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.1	<0.01
Water (by KF, coulometric)	<= 0.08 %	< 0.01
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms / Fails	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: US
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 030621
Description: Acrolein

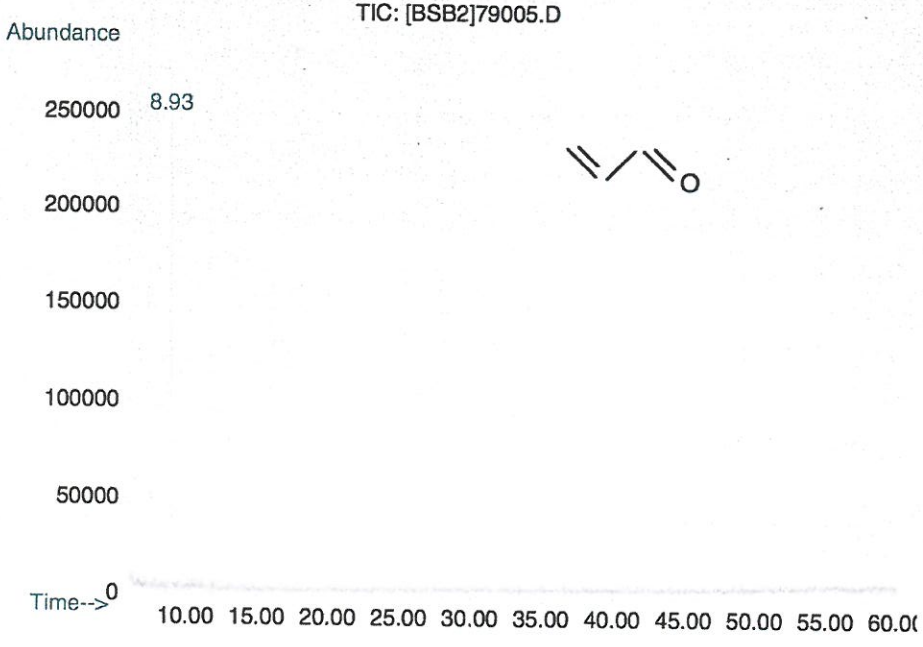
Solvent(s): **Lot#**
Water 120720Q

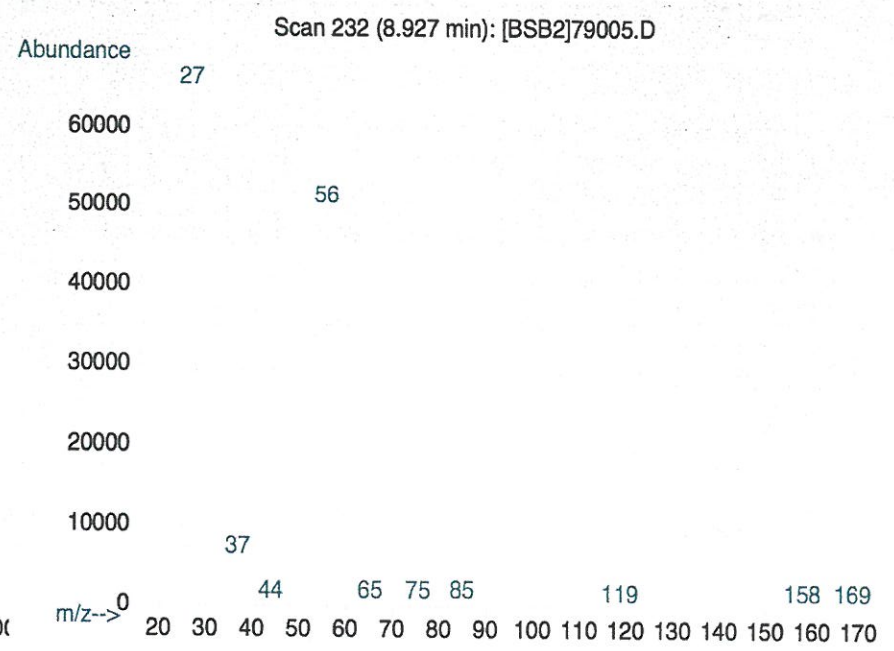
Expiration Date: 040621
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 23060 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.007 Flask Uncertainty

Formulated By:	Justin Dippold	030621 DATE
Reviewed By:	Pedro L. Rentas	030621 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	04715LL	5000	97	0.2	0.05157	0.05175	5017.8	23.8	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).

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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: 030821
Description: Acrolein

Expiration Date: 040821
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 23060

Weight(s) shown below were combined and diluted to (mL): 20.0

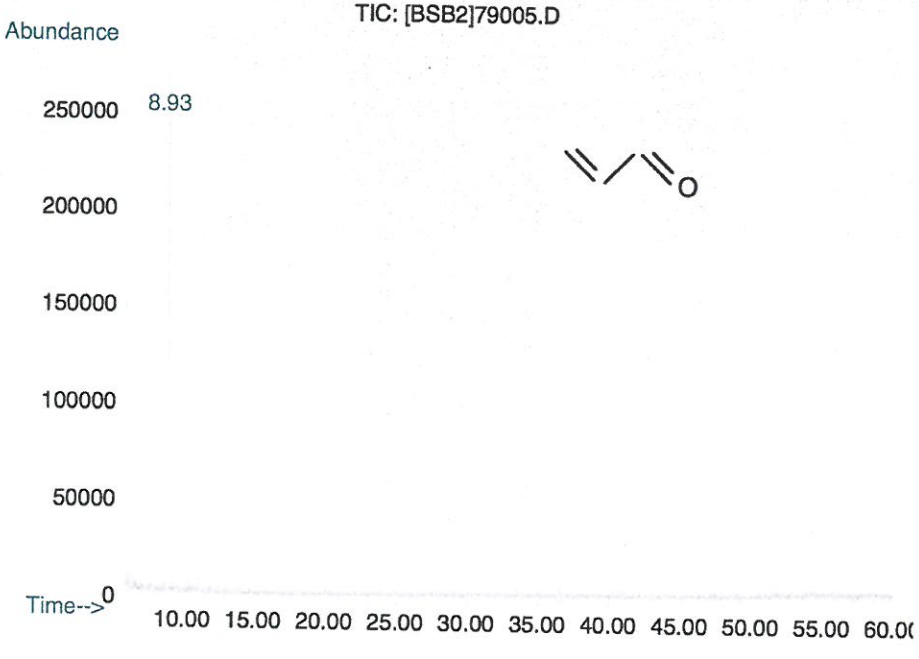
Solvent(s):	Lot#
Water	120720Q

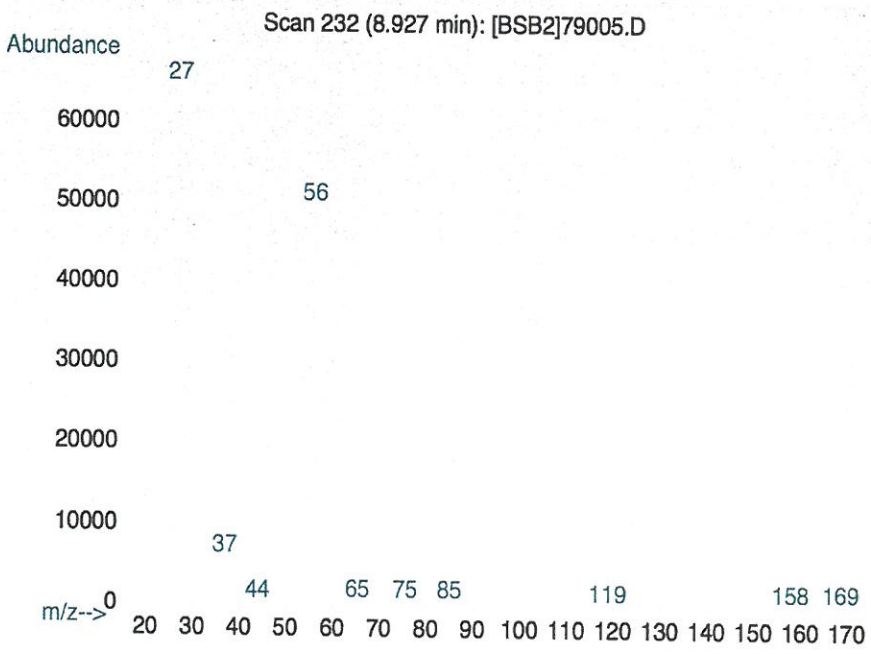
5E-05 Balance Uncertainty
0.002 Flask Uncertainty

Formulated By:	Benson Chan	030821 DATE
Reviewed By:	Pedro L. Rentas	030821 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	07813BN	5000	97	0.2	0.10302	0.10350	5023.4	21.3	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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- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 25, 2021

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

		H315	**Causes skin and eye irritation.**
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)
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)	NA	Melting Point	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: 95318
Lot Number: 082620
Description: 2-Chloroethyl vinyl ether

Expiration Date: 082623
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 23060

Weight(s) shown below were combined and diluted to (mL): 30.0

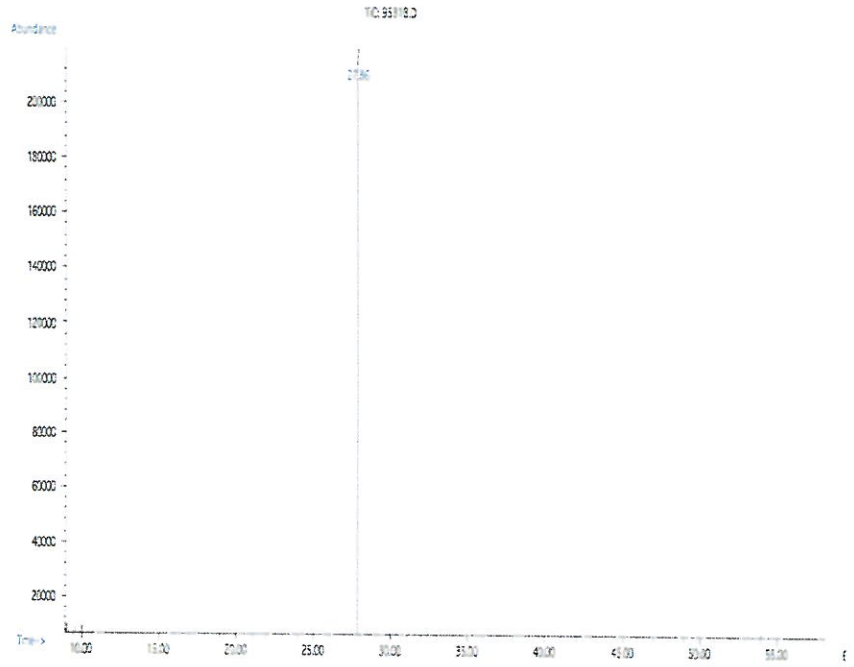
Solvent(s):	Lot#
Methanol	DX932-US

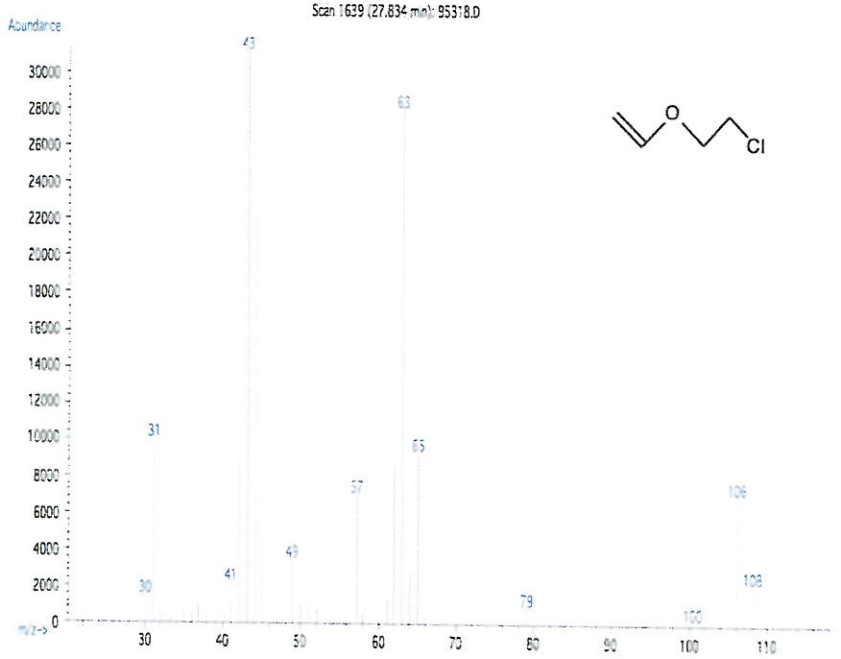
5E-05 Balance Uncertainty
0.002 Flask Uncertainty

Formulated By:	Benson Chan	082620 DATE
Reviewed By:	Pedro L. Rentas	082620 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	0.30284	0.30289	10001.7	40.6	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.
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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 Date Prepared/Revised	**1-352-323-3500** May 1, 2015

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.

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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. : 30489 **Lot No.:** A0162411

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 : January 31, 2022 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl acetate **CAS #** 79-20-9 **Purity** 99%	(Lot SHBK5436)	2,013.0 µg/mL	+/- 11.7308 µg/mL +/- 121.4558 µg/mL +/- 121.7442 µg/mL		Gravimetric Unstressed Stressed
2	Vinyl acetate **CAS #** 108-05-4 **Purity** 99%	(Lot RD200601)	2,007.5 µg/mL	+/- 11.6987 µg/mL +/- 121.1240 µg/mL +/- 121.4115 µg/mL		Gravimetric Unstressed Stressed
3	Ethyl acetate **CAS #** 141-78-6 **Purity** 99%	(Lot SHBL3655)	2,007.3 µg/mL	+/- 11.6973 µg/mL +/- 121.1089 µg/mL +/- 121.3964 µg/mL		Gravimetric Unstressed Stressed
4	Isopropyl acetate **CAS #** 108-21-4 **Purity** 99%	(Lot BCBT9845)	2,007.0 µg/mL	+/- 11.6958 µg/mL +/- 121.0938 µg/mL +/- 121.3813 µg/mL		Gravimetric Unstressed Stressed
5	Propyl acetate **CAS #** 109-60-4 **Purity** 99%	(Lot FGL01)	2,004.0 µg/mL	+/- 11.6784 µg/mL +/- 120.9128 µg/mL +/- 121.1999 µg/mL		Gravimetric Unstressed Stressed
6	Butyl acetate **CAS #** 123-86-4 **Purity** 99%	(Lot SHBK5137)	2,007.5 µg/mL	+/- 11.6987 µg/mL +/- 121.1240 µg/mL +/- 121.4115 µg/mL		Gravimetric Unstressed Stressed
7	Amyl acetate **CAS #** 628-63-7 **Purity** 99%	(Lot 41325/1)	2,013.8 µg/mL	+/- 11.7352 µg/mL +/- 121.5011 µg/mL +/- 121.7895 µg/mL		Gravimetric Unstressed Stressed

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.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

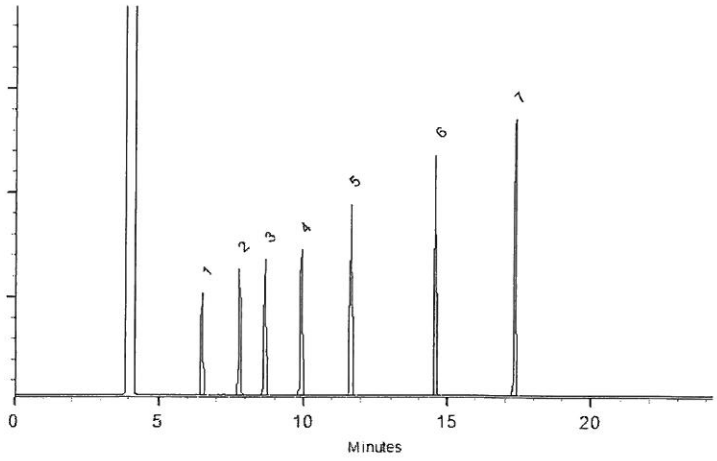
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Tom Suckar - Mix Technician

Date Mixed: 09-Jul-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 13-Jul-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK

Safety Data Sheet

Revision Date: 12/04/20
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**30489 / 8260B Acetates Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	15
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Flammable Liquid Category 2
Carcinogenicity Category 2
Acute Toxicity - Inhalation Dust / Mist Category 3
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word:
Danger

GHS Hazard:
Highly flammable liquid and vapour.
Toxic if swallowed, in contact with skin or if inhaled.
Suspected of causing cancer.
Causes damage to organs.

GHS Precautions:

Safety Precautions:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:
IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Specific treatment see section 4.
Rinse mouth.

Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)

Repeated Exposure Target Organs: No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
P&T Methanol	67-56-1	200-659-6	98.6
Propyl acetate	109-60-4	203-686-1	0.2
Isopropyl acetate	108-21-4	203-561-1	0.2
Vinyl acetate	108-05-4	203-545-4	0.2
Butyl acetate	123-86-4	204-658-1	0.2
Methyl acetate	79-20-9	201-185-2	0.2
Ethyl acetate	141-78-6	205-500-4	0.2
Amyl acetate	628-63-7	211-047-3	0.2

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention. Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire. Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment Wash thoroughly after handling Avoid contact with material. Remove contaminated clothing and wash before reuse "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition Keep away from heat, sparks, and flame

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
P&T Methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
Vinyl acetate	108-05-4	Not established	15 ppm STEL; 53 mg/m3 STEL	10 ppm TWA; 35 mg/m3 TWA	No data available

Personal Protection:

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	Liquid
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	72.8 °C (HSDB) 64.7 °C at 760 mmHg (HSDB)

Melting Point (°C):	-98 °C
Flash Point (°F):	18
Flammability:	Highly Flammable Extremely Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	0
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available
Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	99.8
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.Contamination
Materials to Avoid / Chemical Incompatiability:	Acids Oxidizing materials Peroxides Strong alkalies
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption:	Upon prolonged or repeated exposure, no hazard in normal industrial use.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	**CAS No.**	**LD50/LC50**
Vinyl acetate Acetic acid, vinyl ester	108-05-4	Inhalation LC50 Rat : 11400 mg/m3/4H; Inhalation LC50 Mouse : 1550 ppm/4H; Oral LD50 Rat : 2920 mg/kg; Oral LD50 Mouse : 1613 mg/kg; Dermal LD50 Rabbit : 2335 mg/kg

Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.	
Vinyl acetate	108-05-4	Present

ACGIH:

Chemical Name	CAS No.	
Vinyl acetate	108-05-4	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.
Monograph 63; 1995	108-05-4	Group 2B

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Ethyl acetate)
UN Number:	UN1993
Hazard Class:	3
	3
Packing Group:	II

International:

IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Ethyl acetate)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
P&T Methanol	67-56-1	X	X	-	X
Vinyl acetate	108-05-4	X	X	X	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
P&T Methanol	67-56-1	X	X	X	X
Propyl acetate	109-60-4	X	X	X	X
Isopropyl acetate	108-21-4	X	X	X	X
Vinyl acetate	108-05-4	X	X	X	X
Butyl acetate	123-86-4	X	X	X	X
Methyl acetate	79-20-9	X	X	X	X
Ethyl acetate	141-78-6	X	X	X	X
Amyl acetate	628-63-7	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 05/14/19

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Composition

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0164091

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 : March 31, 2022 **Storage:** 0°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	8,080.0 µg/mL	+/- 47.4180	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot 192709KJ)		+/- 487.5448	µg/mL	Unstressed
	Purity 99%		+/- 488.7021	µg/mL	Stressed

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.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

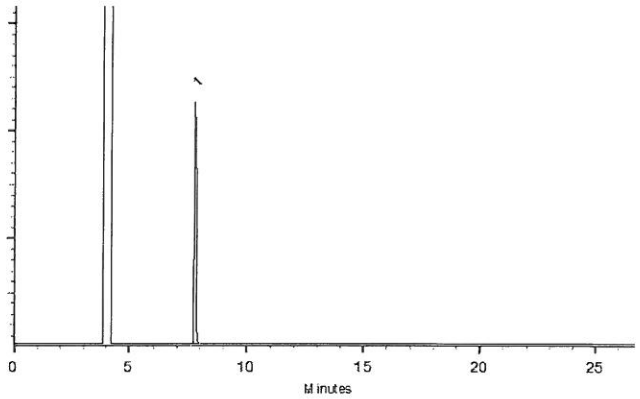
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Brandon Reish - Mix Technician

Date Mixed: 01-Sep-2020 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 10-Sep-2020

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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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Composition

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.:** A0164211

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 : March 31, 2022 **Storage:** 0°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	8,010.0 µg/mL	+/- 47.0072	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot 192709KJ)		+/- 483.3210	µg/mL	Unstressed
	Purity 99%		+/- 484.4683	µg/mL	Stressed

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.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

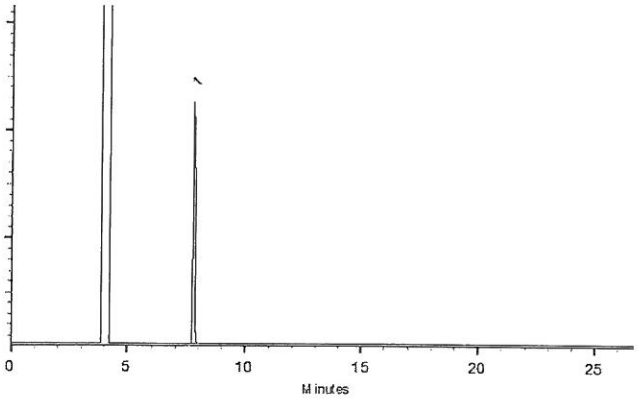
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Lane Kibe - Mix Technician

Date Mixed: 08-Sep-2020 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 10-Sep-2020

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 Composition

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.:** A0168095

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 : July 31, 2022 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate **CAS #** 108-05-4 (Lot RD200601) **Purity** 99%	8,070.0 µg/mL	+/- 47.3593 +/- 486.9414 +/- 488.0973	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

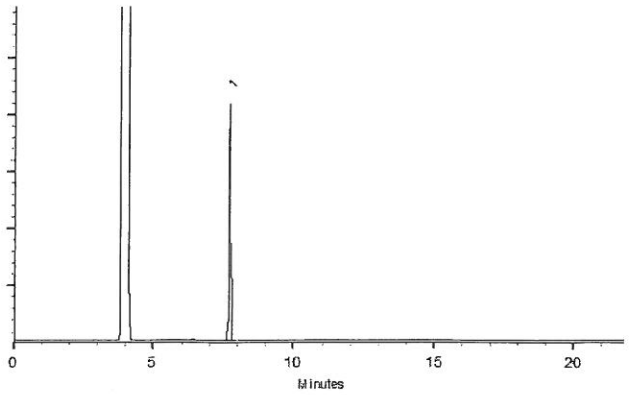
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Lane Kibe - Mix Technician

Date Mixed: 13-Jan-2021 **Balance:** 1128342314

Justine Albertson - Operations Tech-ARM QC

Date Passed: 15-Jan-2021

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.

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

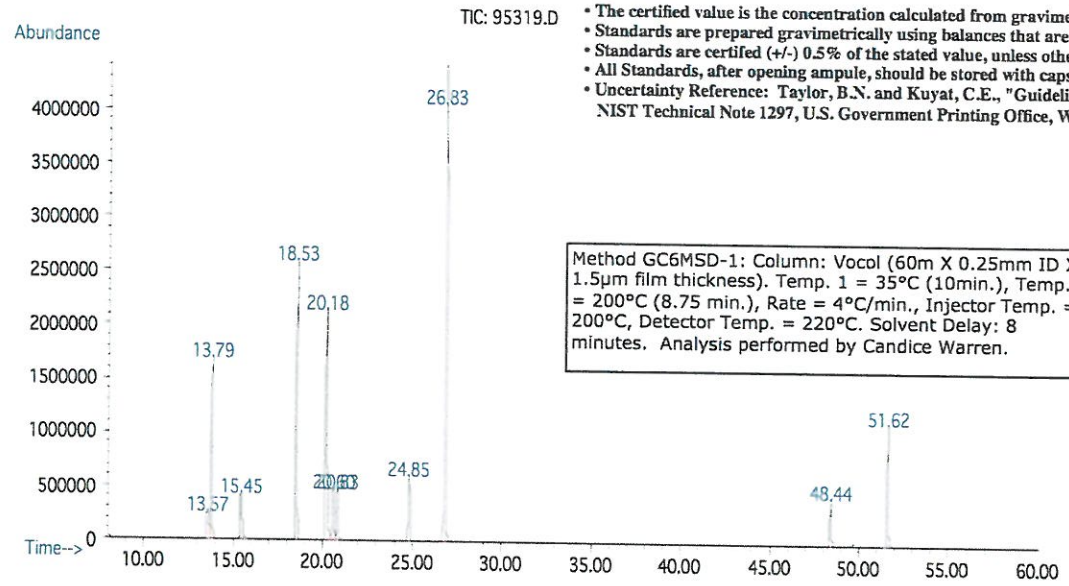
Part Number: 95319
Lot Number: 050119
Description: Revised Additions Mix
11 components
Expiration Date: 050122
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Methanol DU230-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

Formulated By:	Justin Dippold	050119 DATE
Reviewed By:	Pedro L. Rentas	050119 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	1.01021	1.01045	10002.4	40.4	107-13-1	N/A	orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	15538EZ	2000	99.5	0.2	0.20103	0.20124	2002.1	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3. Cyclohexane	1023	SHBD2795V	2000	99.5	0.2	0.20103	0.20118	2001.5	8.1	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20204	0.20222	2001.8	8.1	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04085	4.04123	40003.8	161.6	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20204	0.20223	2001.9	8.1	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20204	0.20219	2001.5	8.1	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20042	0.20059	2001.7	8.1	1634-04-4	N/A	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02042	2.02067	20002.4	80.8	107-12-0	N/A	orl-rat 39mg/kg
10. Tetrahydrofuran	380	113886	10000	99.9	0.2	1.00111	1.00139	10002.8	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 2500mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21508	0.21530	2002.1	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 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).

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

M7985-VOCMS Group2

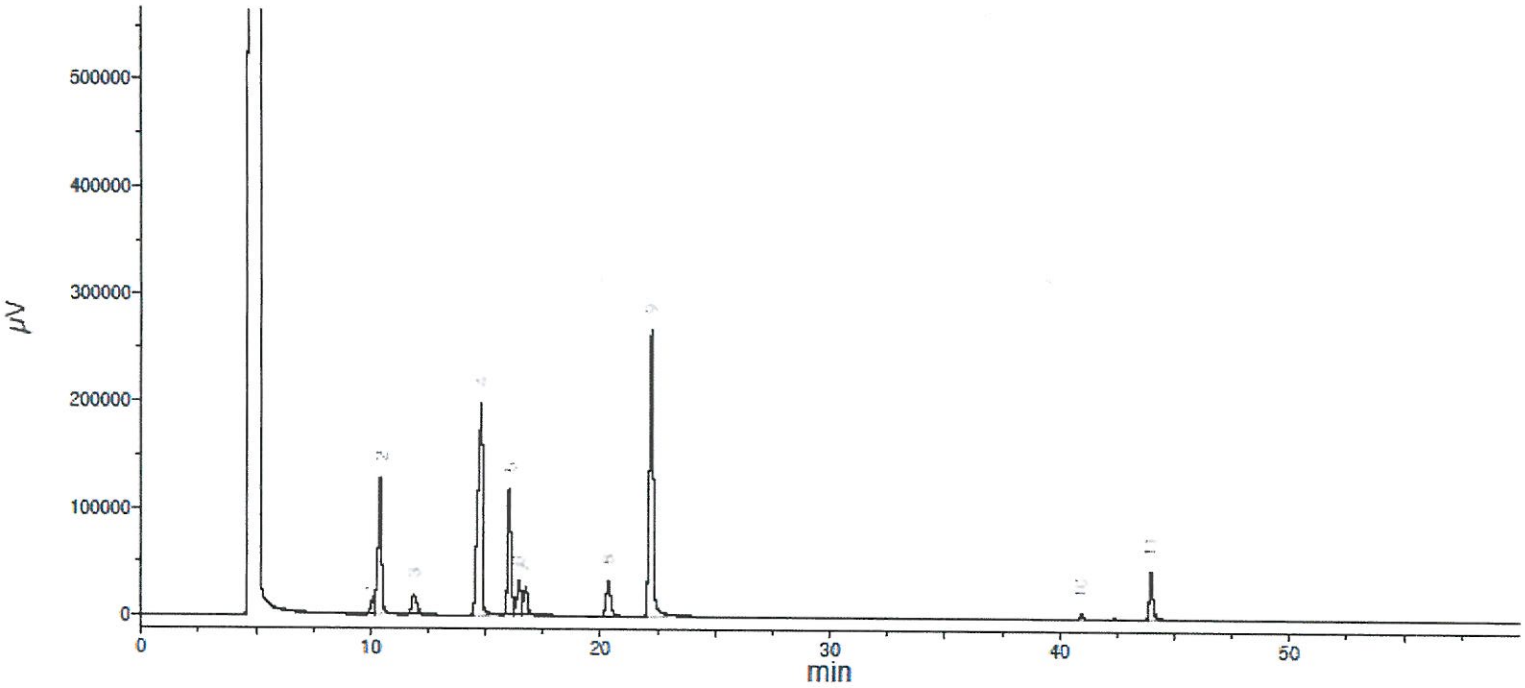
Run 5, "P95319 L050119 [Varied in MeOH]"

Run Length: 60.00 min, 36000 points at 10 points/second.
Created: Fri, May 3, 2019 at 10:19:18 PM.
Sampled: Sequence "050319-GC13M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Name	FID RT (min.)
Methyl tert-butyl ether (MTBE)	9.97
Acrylonitrile	10.40
Di-isopropyl ether	11.87
Propionitrile	14.80
Tetrahydrofuran	16.02
Cyclohexane	16.45
1-Chlorobutane	16.73
Methylcyclohexane	20.34
1,4-Dioxane	22.22
Hexachloroethane	40.96
1,2,3,4-Tetramethylbenzene	43.97

Comments

GC13-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=6



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

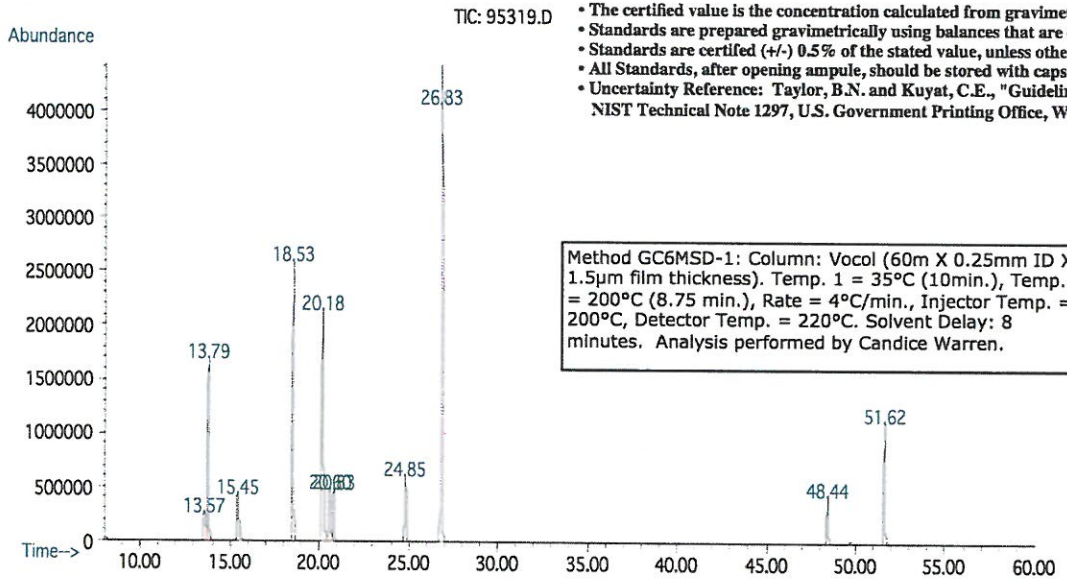
Part Number: 95319
Lot Number: 050219
Description: Revised Additions Mix
11 components
Expiration Date: 050222
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** DU230-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	050219 DATE
Reviewed By:	Pedro L. Rentas	050219 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	1.01021	1.01061	10003.9	40.4	107-13-1	N/A	orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	15538EZ	2000	99.5	0.2	0.20103	0.20120	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3. Cyclohexane	1023	SHBD2795V	2000	99.5	0.2	0.20103	0.20120	2001.7	8.1	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20204	0.20224	2002.0	8.1	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04085	4.04110	40002.5	161.6	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20204	0.20220	2001.6	8.1	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20204	0.20224	2002.0	8.1	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20042	0.20062	2002.0	8.1	1634-04-4	N/A	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02042	2.02082	20003.9	80.8	107-12-0	N/A	orl-rat 39mg/kg
10. Tetrahydrofuran	380	113886	10000	99.9	0.2	1.00111	1.00151	10004.0	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 2500mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21508	0.21540	2003.0	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are 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).**

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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

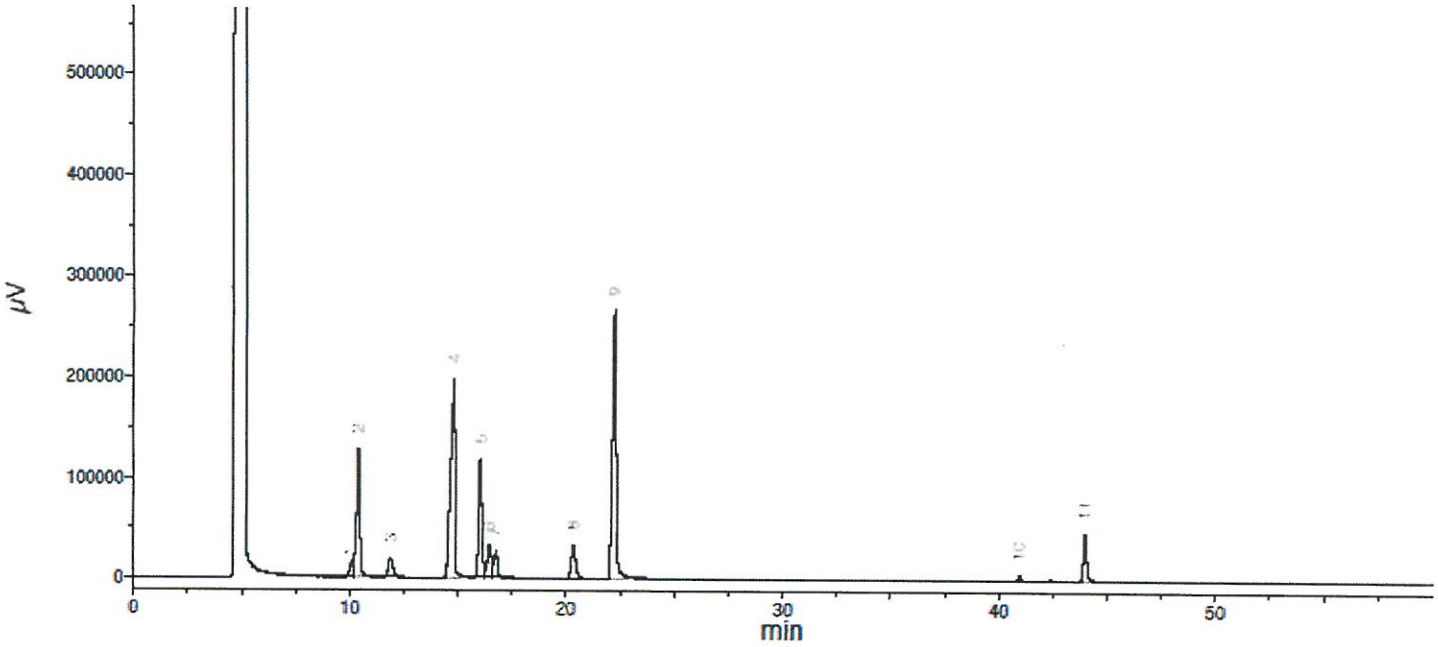
Run 4, "P95319 L050219 [Varied in MeOH]"

Run Length: 60.00 min, 36000 points at 10 points/second.
Created: Fri, May 3, 2019 at 9:08:02 PM.
Sampled: Sequence "050319-GC13M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments

GC13-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=6

Name	FID RT (min.)
Methyl tert-butyl ether (MTBE)	9.97
Acrylonitrile	10.40
Di-isopropyl ether	11.87
Propionitrile	14.80
Tetrahydrofuran	16.02
Cyclohexane	16.45
1-Chlorobutane	16.73
Methylcyclohexane	20.34
1,4-Dioxane	22.22
Hexachloroethane	40.96
1,2,3,4-Tetramethylbenzene	43.97



Part # **95319** Lot # **050219**

Printed: 3/17/2020 12:15:25 PM

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
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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. : 30067 **Lot No.:** A0147670

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 : April 30, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB)	2,511.0 µg/mL	+/- 14.7360	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 140.8035	µg/mL	Unstressed
	Purity 99%		+/- 144.0975	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)

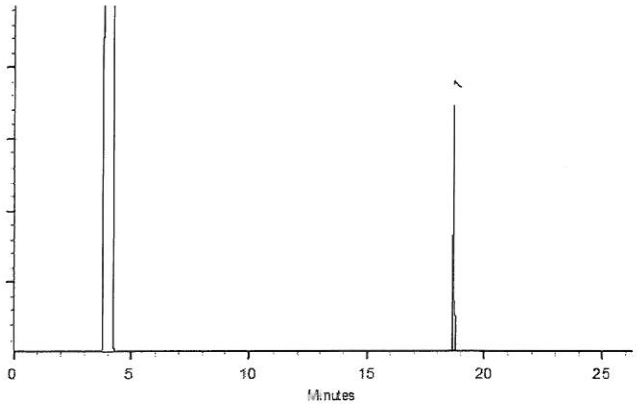
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Dustin J. Lidgett

Dustin Lidgett - Mix Technician

Date Mixed: 01-Apr-2019 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Apr-2019

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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0153385

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 : September 30, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Component #	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 **Purity** 99%	(Lot PR-18488)	25,060.0 µg/mL	+/- 231.9100 +/- 1,416.6261 +/- 1,449.2417	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,4-Difluorobenzene **CAS #** 540-36-3 **Purity** 99%	(Lot MKBN8571V)	25,092.0 µg/mL	+/- 232.2061 +/- 1,418.4350 +/- 1,451.0923	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Chlorobenzene-d5 **CAS #** 3114-55-4 **Purity** 99%	(Lot PR-29571/02028CZ1)	25,056.0 µg/mL	+/- 231.8729 +/- 1,416.4000 +/- 1,449.0104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Pentafluorobenzene **CAS #** 363-72-4 **Purity** 99%	(Lot MKCH1850)	25,072.0 µg/mL	+/- 232.0210 +/- 1,417.3044 +/- 1,449.9357	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Joseph Jaglowski - Mix Technician

Date Mixed: 27-Sep-2019 **Balance:** B707717271

Manufactured under Restek's ISO 9001:2008
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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

Safety Data Sheet

Revision Date: 12/15/16
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**555581 / Custom 8260 Internal Standard Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	7
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:	Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1 Flammable Liquid Category 2 Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Toxic if swallowed or in contact with skin. Causes damage to organs.
GHS Precautions:	
Safety Precautions:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed: Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment see section 4. Rinse mouth. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use extinguishing media in section 5 for extinction.
Storage:	Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: No data available.

Repeated Exposure Target Organs: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	90.000000
1,4-difluorobenzene	540-36-3	208-742-9	2.500000
pentafluorobenzene	363-72-4	206-658-7	2.500000
1,4-dichlorobenzene-d4	3855-82-1		2.500000
chlorobenzene-d5	3114-55-4	221-482-0	2.500000

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal

evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
1,4-difluorobenzene	540-36-3	ND		No TLV	No data available.
pentafluorobenzene	363-72-4	ND		No TLV	No data available.
1,4-dichlorobenzene-d4	3855-82-1	ND		No TLV	No data available.
chlorobenzene-d5	3114-55-4	ND		No TLV	No data available.

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available.
Odor:	Mild
Physical State:	No data available.
pH:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	1.1 (air = 1)
Boiling Point:	No data available.
Melting Point:	-98 °C
Flash Point:	36
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature:	464 deg C
Decomposition Temperature:	No data available.
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available.
Odor Threshold:	No data available.
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available.
VOC % by weight:	90
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	No data available.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents

Hazardous Decomposition Products: Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure: Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Inhalation Toxicity: Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.

Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Eye Contact: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Ingestion Irritation: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.

Ingestion Toxicity: Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity: No data.

Reproductive and Developmental Toxicity: Contains a known human reproductive and/or developmental hazard.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)

Skin Contact: Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Skin Absorption: Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage

Ingestion: Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h
Benzene, 1,2,3,4,5-pentafluoro-	363-72-4	Oral LD50 Rat 2 g/kg

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.
No data available.	

ACGIH:

Chemical Name	CAS No.
No data available.	

NIOSH:

Chemical Name	CAS No.
No data available.	

NTP:

Chemical Name	CAS No.
No data available.	

IARC:

Chemical Name	CAS No.	Group No.
No data.		Group 1

No data. Group 2A
No data. Group 2B

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Pentafluorobenzene)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

International:

IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Pentafluorobenzene)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available.			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
1,4-difluorobenzene	540-36-3	-	-	-	-
pentafluorobenzene	363-72-4	-	-	-	X
1,4-dichlorobenzene-d4	3855-82-1	-	-	-	-
chlorobenzene-d5	3114-55-4	-	-	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
1,4-difluorobenzene	540-36-3	-	-	-	-
pentafluorobenzene	363-72-4	-	-	-	-
1,4-dichlorobenzene-d4	3855-82-1	-	-	-	-
chlorobenzene-d5	3114-55-4	-	-	-	-

16. OTHER INFORMATION

Prior Version Date:	03/03/16
Other Information:	Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.
References:	No data available.
Disclaimer:	Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding prodcuts described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

RESTEK®
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Bellefonte, PA 16823-8812
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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. : 30489 **Lot No.:** A0155430

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 : June 30, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl acetate		2,012.7 µg/mL	+/- 11.8115 µg/mL		Gravimetric
	CAS # 79-20-9	(Lot SHBK5436)		+/- 121.4437 µg/mL		Unstressed
	Purity 99%			+/- 121.7320 µg/mL		Stressed
2	Vinyl acetate		2,020.0 µg/mL	+/- 11.8545 µg/mL		Gravimetric
	CAS # 108-05-4	(Lot 192709KJ)		+/- 121.8862 µg/mL		Unstressed
	Purity 99%			+/- 122.1755 µg/mL		Stressed
3	Ethyl acetate		2,018.7 µg/mL	+/- 11.8467 µg/mL		Gravimetric
	CAS # 141-78-6	(Lot SHBK2184)		+/- 121.8058 µg/mL		Unstressed
	Purity 99%			+/- 122.0949 µg/mL		Stressed
4	Isopropyl acetate		2,012.7 µg/mL	+/- 11.8115 µg/mL		Gravimetric
	CAS # 108-21-4	(Lot BCBT9845)		+/- 121.4437 µg/mL		Unstressed
	Purity 99%			+/- 121.7320 µg/mL		Stressed
5	Propyl acetate		2,018.7 µg/mL	+/- 11.8467 µg/mL		Gravimetric
	CAS # 109-60-4	(Lot MUZQD)		+/- 121.8058 µg/mL		Unstressed
	Purity 99%			+/- 122.0949 µg/mL		Stressed
6	Butyl acetate		2,020.0 µg/mL	+/- 11.8545 µg/mL		Gravimetric
	CAS # 123-86-4	(Lot SHBK5137)		+/- 121.8862 µg/mL		Unstressed
	Purity 99%			+/- 122.1755 µg/mL		Stressed
7	Amyl acetate		2,017.3 µg/mL	+/- 11.8388 µg/mL		Gravimetric
	CAS # 628-63-7	(Lot 41325/1)		+/- 121.7253 µg/mL		Unstressed
	Purity 99%			+/- 122.0142 µg/mL		Stressed

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.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

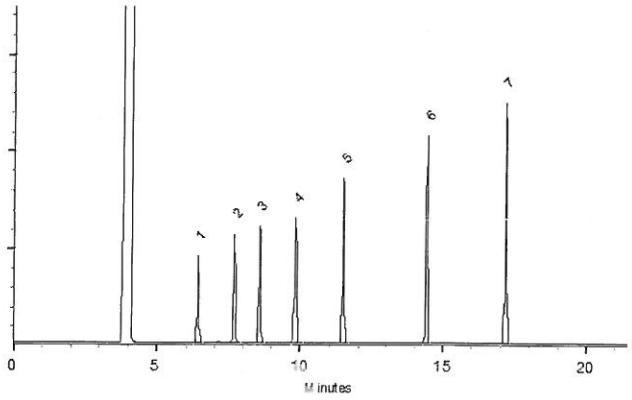
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Tom Suckar - Mix Technician

Date Mixed: 02-Dec-2019 **Balance:** B707717271

Justine Albertson - Operations Team-ARM QC

Date Passed: 04-Dec-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK

Safety Data Sheet

Revision Date: 05/14/19
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**30489 / 8260B Acetates Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	14
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:	Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1 Flammable Liquid Category 2 Carcinogenicity Category 2 Acute Toxicity - Inhalation Dust / Mist Category 3 Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled. Suspected of causing cancer. Causes damage to organs.
GHS Precautions:	
Safety Precautions:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Specific treatment see section 4. Rinse mouth.

Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)

Repeated Exposure Target Organs: No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	98.6
pentyl acetate (n-amyl acetate)	628-63-7	211-047-3	0.2
Isopropyl acetate	108-21-4	203-561-1	0.2
n-Butyl acetate	123-86-4	204-658-1	0.2
Vinyl acetate	108-05-4	203-545-4	0.2
n-Propyl acetate	109-60-4	203-686-1	0.2
Methyl acetate	79-20-9	201-185-2	0.2
Ethyl acetate	141-78-6	205-500-4	0.2

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention. Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire. Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment Wash thoroughly after handling Avoid contact with material. Remove contaminated clothing and wash before reuse "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition Keep away from heat, sparks, and flame

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
Vinyl acetate	108-05-4	Not established	15 ppm STEL; 53 mg/m3 STEL	10 ppm TWA; 35 mg/m3 TWA	No data available

Personal Protection:

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	Liquid
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	72.8 °C (HSDB) 64.7 °C at 760 mmHg (HSDB)

Melting Point (°C):	-98 °C
Flash Point (°F):	18
Flammability:	Highly Flammable Extremely Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	0
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available
Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	99.8
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.Contamination
Materials to Avoid / Chemical Incompatiability:	Acids Oxidizing materials Peroxides Strong alkalies
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption:	Upon prolonged or repeated exposure, no hazard in normal industrial use.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Vinyl acetate Acetic acid, vinyl ester	108-05-4	Inhalation LC50 Rat : 11400 mg/m3/4H; Inhalation LC50 Mouse : 1550 ppm/4H; Oral LD50 Rat : 2920 mg/kg; Oral LD50 Mouse : 1613 mg/kg; Dermal LD50 Rabbit : 2335 mg/kg

Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.	
Vinyl acetate	108-05-4	Present

ACGIH:

Chemical Name	CAS No.	
Vinyl acetate	108-05-4	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.
Monograph 63; 1995	108-05-4	Group 2B

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Ethyl acetate)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

International:

IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Ethyl acetate)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
Vinyl acetate	108-05-4	X	X	X	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
pentyl acetate (n-amyl acetate)	628-63-7	X	X	X	X
Isopropyl acetate	108-21-4	X	X	X	X
n-Butyl acetate	123-86-4	X	X	X	X
Vinyl acetate	108-05-4	X	X	X	X
n-Propyl acetate	109-60-4	X	X	X	X
Methyl acetate	79-20-9	X	X	X	X
Ethyl acetate	141-78-6	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 01/17/18

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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. : 30225 **Lot No.:** A0155519

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Bromochloromethane **CAS #** 74-97-5 (Lot 00008541) **Purity** 98%	2,012.9 µg/mL	+/- 11.9561 µg/mL +/- 112.8889 µg/mL +/- 115.5292 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

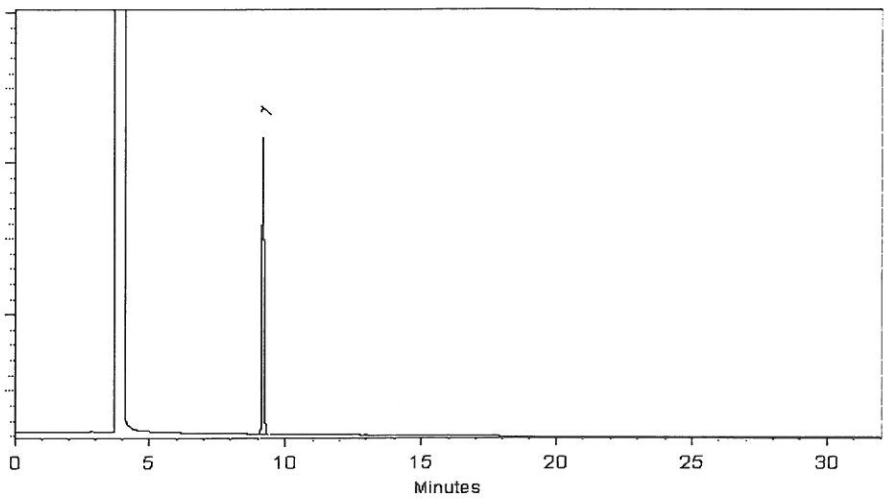
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Lane Kibe - Mix Technician

Date Mixed: 04-Dec-2019 **Balance:** 1128342314

Tyler Brown - Operations Tech-ARM QC

Date Passed: 05-Dec-2019

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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

Safety Data Sheet

Revision Date: 08/22/19
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**30225 / Bromochloromethane Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	13
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Hazardous for the ozone layer
Flammable Liquid Category 2
Acute Toxicity - Inhalation Dust / Mist Category 3
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word:
Danger

GHS Hazard:
Highly flammable liquid and vapour.
Toxic if swallowed, in contact with skin or if inhaled.
Causes damage to organs.
Harms public health and the environment by destroying ozone in the upper atmosphere.

GHS Precautions:

Safety Precautions:
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:
IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Specific treatment see section 4.
Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage:	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS. Refer to manufacturer/supplier for information on recovery/recycling.
Single Exposure Target Organs:	Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)
Repeated Exposure Target Organs:	No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	99.8
bromochloromethane	74-97-5	200-826-3	0.2

4. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately
Eyes:	Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.
Fire and/or Explosion Hazards:	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.
Methods for Clean-up:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions:	Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment
Storage Technical Measures and Conditions:	Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA

Personal Protection:

Engineering Measures:	Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection:	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	Liquid
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	64.7 °C at 760 mmHg (HSDB)
Melting Point (°C):	-98 °C
Flash Point (°F):	52
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available
Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	99.8
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract

Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:

NIOSH:

Chemical Name	CAS No.	LD50/LC50
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.
No data available	

ACGIH:

Chemical Name	CAS No.
No data available	

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3(6.1)
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
bromochloromethane	74-97-5	X	X	X	X

16. OTHER INFORMATION

Prior Version Date:	11/08/18
Other Information:	Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.
References:	No data available
Disclaimer:	Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

RESTEK®
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Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #2222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0158153

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 : February 28, 2023 **Storage:** 10°C or colder

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-29377) **Purity** 99%	25,224.0 µg/mL	+/- 233.4276 µg/mL +/- 1,425.8969 µg/mL +/- 1,458.7260 µg/mL	Gravimetric Unstressed Stressed
2	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	25,128.0 µg/mL	+/- 232.5392 µg/mL +/- 1,420.4701 µg/mL +/- 1,453.1742 µg/mL	Gravimetric Unstressed Stressed
3	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 0012016) **Purity** 99%	25,200.0 µg/mL	+/- 233.2055 µg/mL +/- 1,424.5402 µg/mL +/- 1,457.3380 µg/mL	Gravimetric Unstressed Stressed
4	Toluene-d8 **CAS #** 2037-26-5 (Lot I-21928) **Purity** 99%	25,184.0 µg/mL	+/- 233.0575 µg/mL +/- 1,423.6357 µg/mL +/- 1,456.4127 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tom Suckal - Mix Technician

Date Mixed: 25-Feb-2020 **Balance:** B707717271

Manufactured under Restek's ISO 9001:2008
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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

Safety Data Sheet

Revision Date: 07/20/18
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**555582 / Custom 8260A/B Surrogate Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	6
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:	Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1 Hazardous for the ozone layer Flammable Liquid Category 2 Acute Toxicity - Dermal Category 3 Acute Toxicity - Oral Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Toxic if swallowed or in contact with skin. Causes damage to organs. Harms public health and the environment by destroying ozone in the upper atmosphere.
GHS Precautions:	
Safety Precautions:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed: Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment see section 4. Rinse mouth. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use extinguishing media in section 5 for extinction.

Storage:	Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS. Refer to manufacturer/supplier for information on recovery/recycling.
Single Exposure Target Organs:	Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)
Repeated Exposure Target Organs:	No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	90
1,2-dichloroethane-d4	17060-07-0		2.5
dibromofluoromethane	1868-53-7		2.5
toluene-d8	2037-26-5	218-009-5	2.5
1-bromo-4-fluorobenzene	460-00-4	207-300-2	2.5

4. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately
Eyes:	Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire. Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.
Fire and/or Explosion Hazards:	Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the

	area responding to the spill. Never exceed any occupational exposure limits.
Methods for Clean-up:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions:	Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment
Storage Technical Measures and Conditions:	Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
1,2-dichloroethane-d4	17060-07-0	Not established	None Known	Not established	No data available
dibromofluoromethane	1868-53-7	Not established	None Known	Not established	No data available
toluene-d8	2037-26-5	Not established	None Known	Not established	No data available
1-bromo-4-fluorobenzene	460-00-4	Not established	None Known	Not established	No data available

Personal Protection:

Engineering Measures:	Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection:	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	No data available
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	151.5 °C Boiling Point (at 1013.25 hPa) 64.7 °C at 760 mmHg (HSDB)
Melting Point (°C):	-98 °C
Flash Point (°F):	50
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available

Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	0
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Benzene, 1-bromo-4-fluoro-	460-00-4	Inhalation LC50 Rat 18 g/m3 4 h; Oral LD50 Rat 2700 mg/kg
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.
No data available	

ACGIH:

Chemical Name	CAS No.
No data available	

NIOSH:

Chemical Name	CAS No.

No data available

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
1,2-dichloroethane-d4	17060-07-0	-	-	-	-
dibromofluoromethane	1868-53-7	-	-	-	-
toluene-d8	2037-26-5	-	-	-	-
1-bromo-4-fluorobenzene	460-00-4	-	-	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California

methanol	67-56-1	X	X	X	X
1,2-dichloroethane-d4	17060-07-0	-	-	-	-
dibromofluoromethane	1868-53-7	-	-	-	-
toluene-d8	2037-26-5	-	-	-	-
1-bromo-4-fluorobenzene	460-00-4	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 03/03/16

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

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Analytical Reference Material ARM

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Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 031419
Description: 2-Chloroethyl vinyl ether

Solvent(s): **Lot#**
Methanol DU230-US

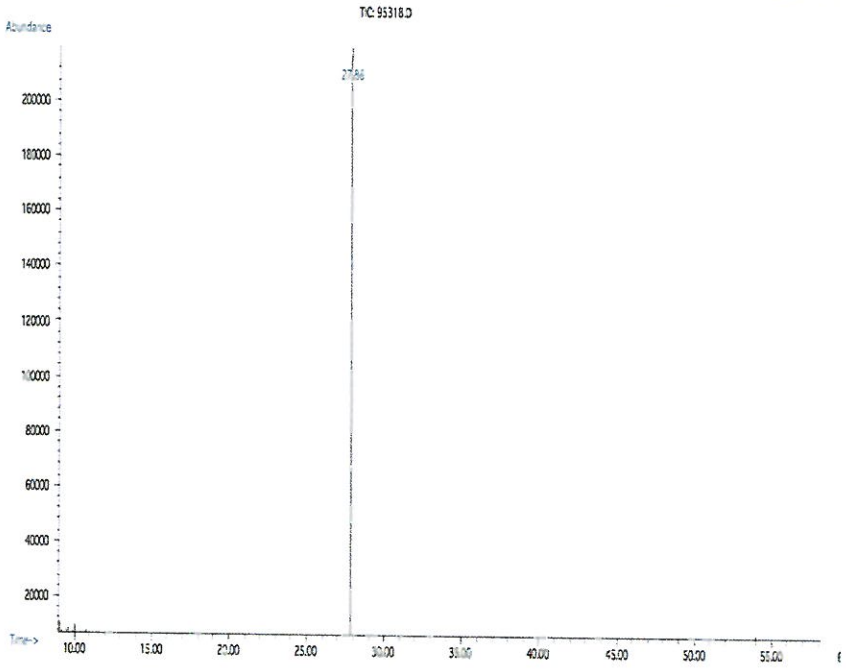
Expiration Date: 031422
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 2684186

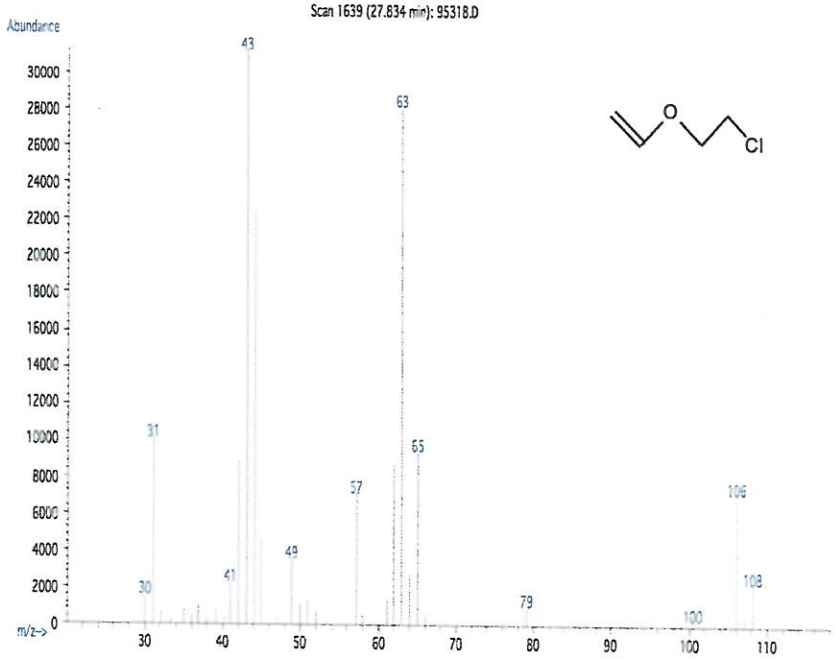
Weight(s) shown below were combined and diluted to (mL): 30.0 | 5E-05 Balance Uncertainty | 0.002 Flask Uncertainty

Eli Aliaga		031419
Formulated By:	Eli Aliaga	DATE
Pedro Rentas		031419
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30284	0.30292	10002.6	40.6	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).

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Analytical Reference Material ARM

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Revised

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 072618
Description: Bromochloromethane

Solvent(s): Methanol **Lot#** DS526

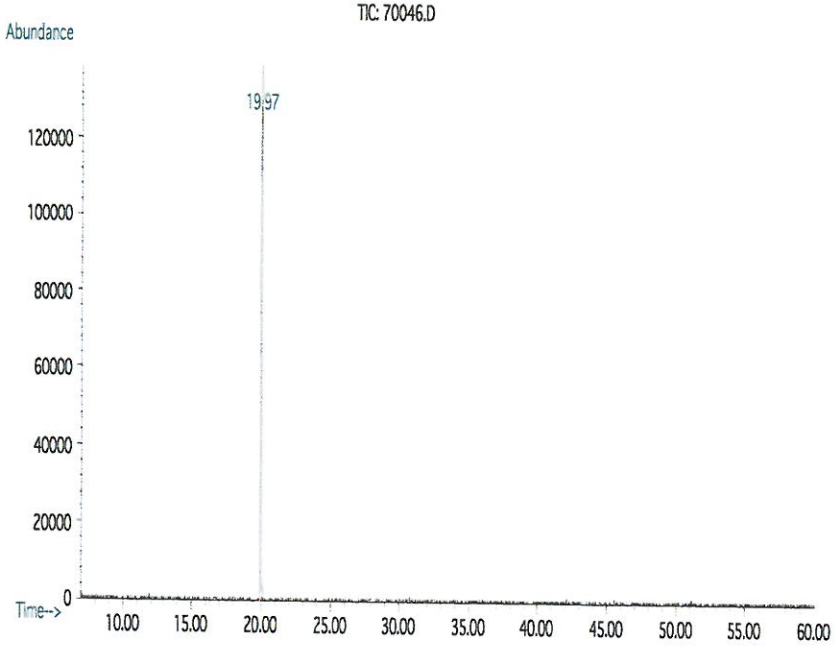
Expiration Date: 072623
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 822-275872-11

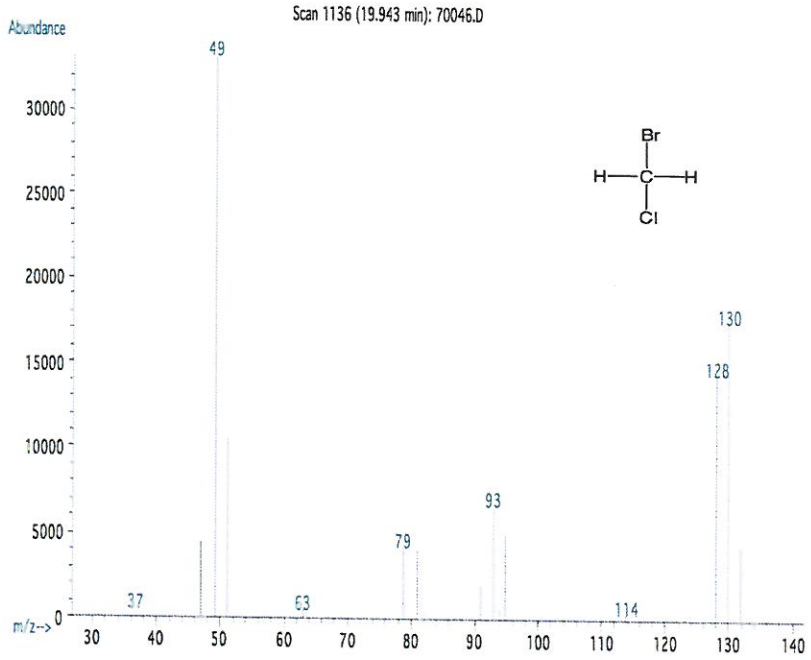
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 25.0
0.002 Flask Uncertainty

Eli Aliaga	072618
Formulated By: Eli Aliaga	DATE
Pedro Rentas	072618
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Bromochloromethane	46	AY01	1000	99	0.2	0.02526	0.02540	1005.7	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).

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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. : 30470 **Lot No.:** A0158421

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 : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	49,864.0 µg/mL	+/- 291.9647 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBL0592)		+/- 1,068.1530 µg/mL	Unstressed
	Purity 99%		+/- 1,099.1740 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)

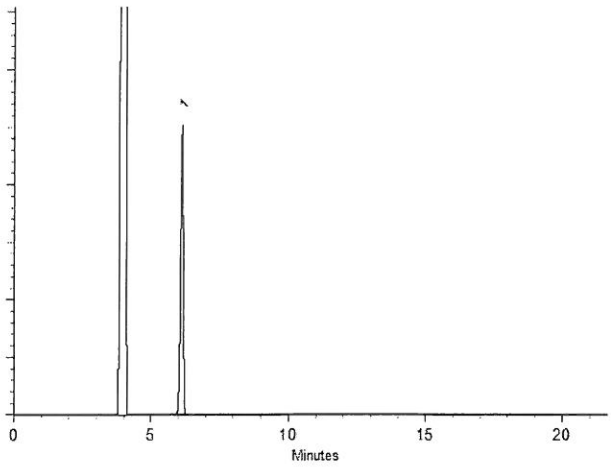
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Kylie Struble - Operations Technician I

Date Mixed: 03-Mar-2020 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Mar-2020

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)	< 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.
- 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. : 30006 **Lot No.:** A0159420

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 : June 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot MKCK2598) **Purity** 99%	5,006.4 µg/mL	+/- 29.1076 µg/mL +/- 302.0583 µg/mL +/- 302.7754 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBK9603) **Purity** 99%	5,001.8 µg/mL	+/- 29.0809 µg/mL +/- 301.7808 µg/mL +/- 302.4972 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBK5017) **Purity** 99%	5,001.5 µg/mL	+/- 29.0792 µg/mL +/- 301.7627 µg/mL +/- 302.4791 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKCL1599) **Purity** 99%	5,001.6 µg/mL	+/- 29.0797 µg/mL +/- 301.7687 µg/mL +/- 302.4851 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)

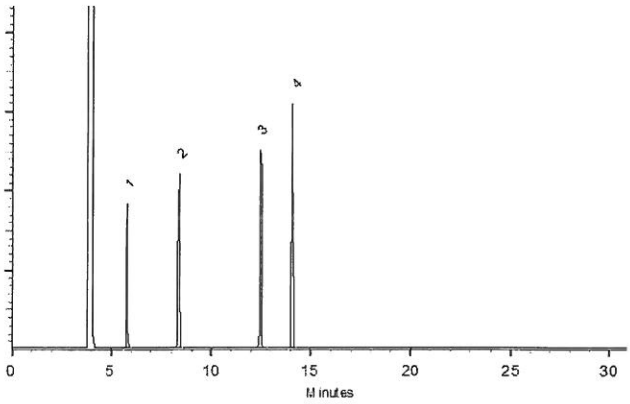
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cathleen Soltis - Mix Technician

Date Mixed: 30-Mar-2020 **Balance:** B251644995

Feng Yen Lo QC Analyst

Date Passed: 01-Apr-2020

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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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.:** A0160703

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 : May 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	50,148.0 µg/mL	+/- 293.6276 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBL5806)		+/- 1,074.2366 µg/mL	Unstressed
	Purity 99%		+/- 1,105.4344 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)

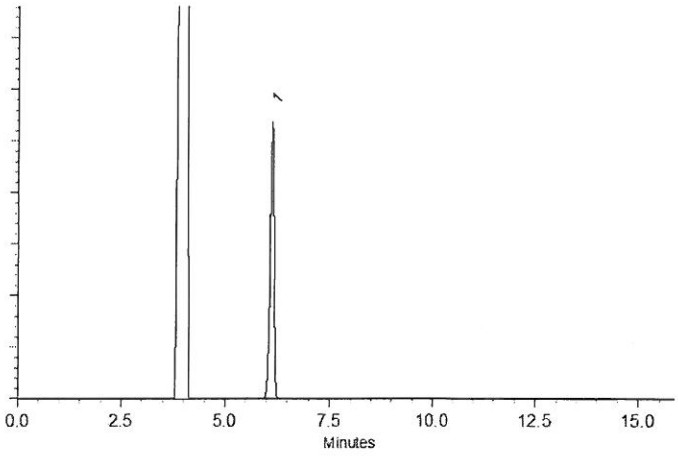
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Russ Bookhamer - Operations Technician I

Date Mixed: 11-May-2020 **Balance:** 1128360905

Justine Albertson - Operations Tech-ARM QC

Date Passed: 13-May-2020

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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0154174

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 : January 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot SHBK6362) **Purity** 99%	5,005.9 µg/mL	+/- 29.1047 µg/mL +/- 302.0281 µg/mL +/- 302.7452 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBK2537) **Purity** 99%	5,002.6 µg/mL	+/- 29.0855 µg/mL +/- 301.8290 µg/mL +/- 302.5456 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBK5017) **Purity** 99%	5,007.2 µg/mL	+/- 29.1123 µg/mL +/- 302.1066 µg/mL +/- 302.8238 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKCD9048) **Purity** 99%	5,009.0 µg/mL	+/- 29.1228 µg/mL +/- 302.2152 µg/mL +/- 302.9327 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)

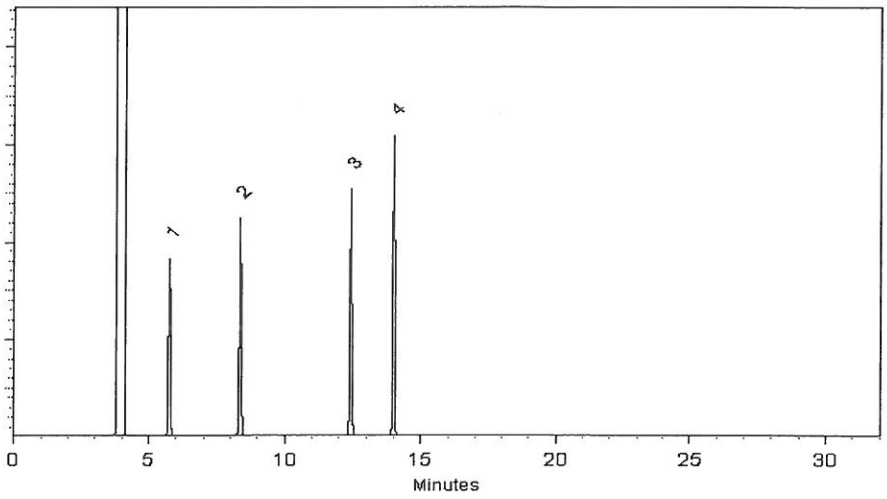
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Lane Kibe - Mix Technician

Date Mixed: 22-Oct-2019 **Balance:** B707717271

Fung-Yun Le - QC Analyst

Date Passed: 24-Oct-2019

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.

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0°C or colder (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.
- 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 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 010719
Description: Universal VOA Megamix
69 components
Expiration Date: 010722
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 2684186

V10786
V10800

Solvent(s): Methanol
Lot# DT140Q6

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

Formulated By:	Justin Dippold	010719 DATE
Reviewed By:	Pedro L. Rentas	010719 DATE

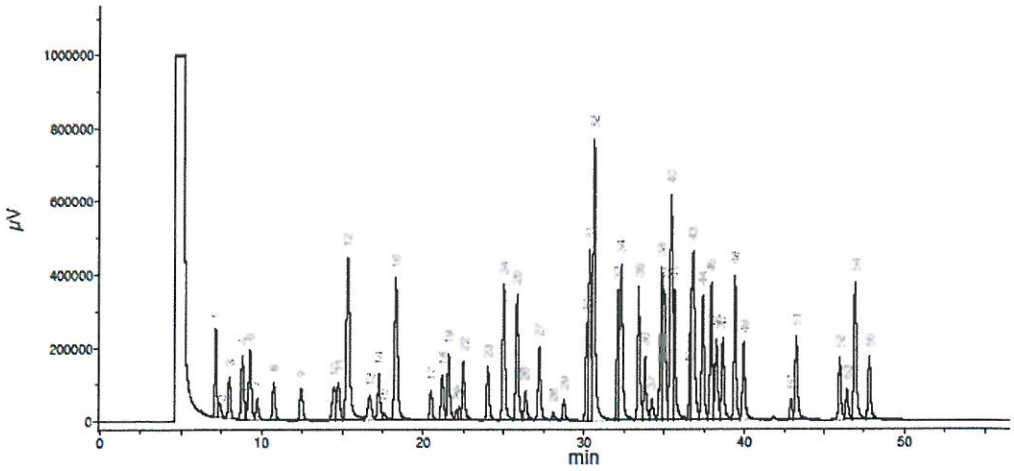
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	060812	NA	NA	NA	2000	99.9	0.2	NA	0.20022	0.20050	2002.8	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	0.20204	0.20215	2001.1	8.1	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKBZ8669V	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20215	2001.1	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	0.21055	0.21075	2001.9	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	0.20728	0.20750	2002.2	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	209453	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20230	2002.6	8.2	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20225	2002.1	8.1	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20103	0.20135	2003.2	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	0.20103	0.20120	2001.7	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	0.20204	0.20215	2001.1	8.1	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	0.20022	0.20100	2007.8	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	030218X	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20220	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	0.20204	0.20215	2001.1	8.1	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	95	0.2	NA	0.21055	0.21075	2001.9	8.5	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20410	0.20430	2001.9	8.2	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20204	0.20220	2001.6	8.1	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	051118	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	051118	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.8	15.9	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	051118	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	1999.9	15.8	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	051118	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.8	15.9	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	051118	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	1999.9	15.8	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	122818	0.10	10.00	20005.5	2000	NA	NA	0.042	NA	NA	2000.3	18.7	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	010419	0.10	10.00	20001.3	2000	NA	NA	0.042	NA	NA	1999.9	18.7	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	010419	0.10	10.00	20001.8	2000	NA	NA	0.042	NA	NA	2000.0	18.7	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	010419	0.10	10.00	20000.8	2000	NA	NA	0.042	NA	NA	1999.9	18.7	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	010419	0.10	10.00	20002.1	2000	NA	NA	0.042	NA	NA	2000.0	18.7	594-20-7	N/A	N/A
29. [illegible]achloroethene	95321	010419	0.10	10.00	20002.2	2000	NA	NA	0.042	NA	NA	2000.0	18.7	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. [illegible],1-Trichloroethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.0	18.7	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	052418	0.05	5.00	40001.4	2000	NA	NA	0.017	NA	NA	1999.9	15.8	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	052418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	142-28-9	N/A	unr-mus 3800mg/kg
36. 1,1-Dichloropropene	35161	052418	0.05	5.00	39639.5	2000	NA	NA	0.017	NA	NA	1981.8	24.2	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	052418	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	15.9	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	052418	0.05	5.00	40000.7	2000	NA	NA	0.017	NA	NA	1999.8	16.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	052418	0.05	5.00	40000.9	2000	NA	NA	0.017	NA	NA	1999.8	15.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	052418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	79-34-5	5 ppm (35mg/m3/9H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	052418	0.05	5.00	40000.7	2000	NA	NA	0.017	NA	NA	1999.8	15.9	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	052418	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.8	15.8	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	052418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.8mg/kg
45. Benzene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	060418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	060418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	104-51-8	N/A	N/A
48. Ethyl benzene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	060418	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	060418	0.05	5.00	40000.5	2000	NA	NA	0.017	NA	NA	1999.8	15.8	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	060418	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	060418	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.9	15.8	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	060418	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	060418	0.05	5.00	40000.2	2000	NA	NA	0.017	NA	NA	1999.8	15.9	108-67-8	N/A	N/A
57. m-Xylene	35162	060418	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	051118	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.8	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	051118	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.9	15.8	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	051118	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.8	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	051118	0.05	5.00	40001.4	2000	NA	NA	0.017	NA	NA	1999.8	15.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	051118	0.05	5.00	40002.3	2000	NA	NA	0.017	NA	NA	1999.9	15.8	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	051118	0.05	5.00	40001.5	2000	NA	NA	0.017	NA	NA	1999.9	15.9	541-73-1	N/A	ipr-mus 1052mg/kg
65. 1,4-Dichlorobenzene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	051118	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.9	15.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	051118	0.05	5.00	40001.0	2000	NA	NA	0.017	NA	NA	1999.8	15.9	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	051118	0.05	5.00	40001.1	2000	NA	NA	0.017	NA	NA	1999.8	15.8	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	051118	0.05	5.00	40001.3	2000	NA	NA	0.017	NA	NA	1999.8	15.8	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 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).

Run 27, "P95317 L010719 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 36000 points at 10 points/second.
Created: Wed, Jan 9, 2019 at 2:51:42 PM.
Sampled: Sequence "010819-GC13M1", Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments
GC13-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 #	Analyte	FID RT (min.)
1	Ether	7.15
2	1,1,2-Trichloro-1,2,2-trifluoroethane	7.37
3	1,1-Dichloroethene	7.99
4	Acetonitrile	8.80
5	Iodomethane	9.01
6	Allyl chloride	9.27
7	**Carbon disulfide/Methylene chloride**	9.73
8	trans-1,2-Dichloroethene	10.73
9	1,1-Dichloroethane	12.44
10	2,2-Dichloropropane	14.49
11	cis-1,2-Dichloroethene	14.76
12	**Methacrylonitrile/Methyl acrylate/Chloroform**	15.33
13	**Isobutanol/1,1,1-Trichloroethane**	16.69
14	1,1-Dichloropropene	17.26
15	Carbon tetrachloride	17.72
16	**Benzene/1,2-Dichloroethane**	18.29
17	Trichloroethene	20.45
18	1,2-Dichloropropane	21.17
19	Methyl methacrylate	21.56
20	Bromodichloromethane	22.05
21	Dibromomethane	22.23
22	2-Nitropropane	22.48
23	cis-1,3-Dichloropropene	24.00
24	Toluene	24.97
25	**Ethyl methacrylate/trans-1,3-Dichloropropene**	25.82
26	1,1,2-Trichloroethane	26.33
27	**Tetrachloroethene/1,3-Dichloropropane**	27.20
28	Dibromochloromethane	28.06
29	1,2-Dibromoethane	28.72
30	Chlorobenzene	30.14
31	**Ethylbenzene/1,1,1,2-Tetrachloroethane**	30.32
32	**m-Xylene/p-Xylene**	30.59
33	o-Xylene	32.12
34	Styrene	32.30
35	**Isopropylbenzene/Bromoform**	33.39
36	cis-1,4-Dichloro-2-butene	33.79
37	1,1,2,2-Tetrachloroethane	34.21
38	**1,2,3-Trichloropropane/n-Propylbenzene**	34.82
39	**trans-1,4-Dichloro-2-butene/Bromobenzene**	34.99
40	**1,3,5-Trimethylbenzene/2-Chlorotoluene**	35.42
41	4-Chlorotoluene	35.61
42	tert-Butylbenzene	36.54
43	**1,2,4-Trimethylbenzene/Pentachloroethane**	36.78
44	sec-Butylbenzene	37.38
45	p-Isopropyltoluene	37.91
46	1,3-Dichlorobenzene	38.23
47	1,4-Dichlorobenzene	38.64
48	n-Butylbenzene	38.38
49	1,2-Dichlorobenzene	39.95
50	1,2-Dibromo-3-chloropropane	42.89
51	Nitrobenzene	43.23
52	1,2,4-Trichlorobenzene	45.95
53	Hexachlorobutadiene	46.41
54	Naphthalene	46.98
55	1,2,3-Trichlorobenzene	47.79

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. M1785
COC Number 2028346

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Chazen Companies
ADDRESS: 547 River St.
CITY Troy STATE: NY ZIP: 12180
ATTENTION: Branden Fields
PHONE: 518/266/7355 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Ebenezer Plaza-1
PROJECT NO.: 20918.10 LOCATION: Brooklyn, NY
PROJECT MANAGER: Kevin McGrath
e-mail: Kmcgrath@chazencompanies.com
PHONE: 518-266-7370 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chazen PO#: 08246
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Accts. Payable PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☒ NYS ASP B
- ☐ Other _____
- ☒ EDD FORMAT NYSDEC v.4.

ANALYSIS

8260 VOCs

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
1.	MW-1	GW		X	3/23/21	1220	2	X								
2.	MW-1_MS/MSD			X		1220	2	X								
3.	MW-2			X		1140	2	X								
4.	MW-3R			X		1100	2	X								
5.	MW-4			X		1020	2	X								
6.	MW-5R			X		0935	2	X								
7.	FD-032321			X		00:00	2	X								
8.	TripBlank	QA/QC				0915	2	X								
9.																
10.																

PRESERVATIVES: A,E

COMMENTS
← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME	RECEIVED BY	
1. RELINQUISHED BY SAMPLER: Branden Fields	3/23/21 1230	1.	3-23-21
2. RELINQUISHED BY SAMPLER:	DATE/TIME:	2. RECEIVED BY:	
3. RELINQUISHED BY SAMPLER:	3-23-21 1800	3. RECEIVED BY: SC	

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP (BF) °C 4.2°C
Comments: Please reference Purchase Order #~~083~~ 08246 on invoice.

Page 1 of 1
CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☒ Picked Up ☐ Field Sampling
Shipment Complete ☒ YES ☐ NO

From: Branson Fields <bfields@chazencompanies.com>
Sent: Wednesday, March 24, 2021 10:21 AM
To: S.Chaim@chemtech.net
Subject: Re: 20918.10_EP-1 Sample Pickup

Thanks for bringing this to my attention. I should have filled more vials. Please proceed.

Branson Fields
Environmental Scientist
Chazen Companies
547 River Street
Troy,NY 12180
(C)720.626.6362
(O)518.266.7355

From: Steven Chaimowitz <S.Chaim@chemtech.net>
Sent: Wednesday, March 24, 2021 10:01:48 AM
To: Branson Fields <bfields@chazencompanies.com>
Subject: RE: 20918.10_EP-1 Sample Pickup

Hi Branson,
Please be advised for the MS/MSD samples the lab only received 2 vials. We will proceed with analysis and label one vial as the MS and one as the MSD. That being said there will be no volume for reanalysis for the MS/MSD should this be needed. Please let me know if you have any questions.

Thank you,

Steven Chaimowitz
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092
Direct: (908) 728-3147
s.chaim@chemtech.net | www.chemtech.net

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-----Original Message-----
From: Steven Chaimowitz [mailto:S.Chaim@chemtech.net]
Sent: Monday, March 22, 2021 9:48 AM
To: 'Branson Fields' <bfields@chazencompanies.com>
Subject: RE: 20918.10_EP-1 Sample Pickup

Hi Branson,
Confirmed for 1pm tomorrow. Thanks!

Regards,

Steven Chaimowitz
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092
Direct: (908) 728-3147
s.chaim@chemtech.net | www.chemtech.net

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-----Original Message-----
From: Branson Fields [mailto:bfields@chazencompanies.com]
Sent: Monday, March 22, 2021 9:34 AM
To: Steven Chaimowitz <s.chaim@chemtech.net>
Subject: RE: 20918.10_EP-1 Sample Pickup

Hi Steven,

Groundwater sampling is scheduled to be completed at the EP-1 Site tomorrow, 3/23/21. May I please request a sample pickup from the Site around 1:00pm?

Thanks,

Branson Fields

-----Original Message-----
From: Branson Fields
Sent: Wednesday, March 17, 2021 1:11 PM
To: Steven Chaimowitz <S.Chaim@chemtech.net>
Subject: Re: 20918.10_EP-1 SMP_March 2021 Quarterly

Hi steven,
You are correct, ASP B please. Thanks

Cheers,
Branson Fields

> On Mar 17, 2021, at 11:31, Steven Chaimowitz <S.Chaim@chemtech.net> wrote:
>
> Hi Branson,
> Please see the attached. Just want to confirm the deliverable should
> be ASPB rather than ASPA based on past projects. Thanks!
>
> Regards,
>
> Steven Chaimowitz
> Project Manager
>
> CHEMTECH
>
> 284 Sheffield St. | Mountainside, NJ 07092
> Direct: (908) 728-3147
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>
> From: Branson Fields [mailto:bfields@chazencompanies.com]
> Sent: Wednesday, March 17, 2021 7:22 AM
> To: s.chaim@chemtech.net
> Subject: RE: 20918.10_EP-1 SMP_March 2021 Quarterly
>
> Hi Steven,
>
> I ended up collecting soil samples (2 = trip blank) at the Ebenezer
> Plaza-1 Site yesterday, and shipped them overnight to your lab via FedEx.
> They should arrive this morning. Please reference Purchase Order #
> 08334 on invoice.
>
> Additionally, GW sampling will be occurring March 23rd. I will
> coordinate a pick up time as we near closer. Thanks.
>
> Branson Fields
> Chazen, A LaBella Company | Environmental Scientist
> 547 River Street
> Troy, New York 12180
> Office: 518.266.7355
> Cell: 720.626.6362
> www.chazencompanies.com<https://protect-us.mimecast.com/s/8SbHCYEn0BhP
> koGsVKwi4/>
>
> From: Steven Chaimowitz
> <S.Chaim@chemtech.net<mailto:S.Chaim@chemtech.net>>
> Sent: Monday, March 15, 2021 9:33 AM
> To: Branson Fields
> <bfields@chazencompanies.com<mailto:bfields@chazencompanies.com>>
> Cc: kurt@chemtech.net<mailto:kurt@chemtech.net>
> Subject: RE: 20918.10_EP-1 SMP_March 2021 Quarterly
>
> Hi Branson,
> We will have this added to our schedule for tomorrow around 9am.
> Please reach out whenever you may need a sample pickup. Thank you!
>
> Regards,
>
> Steven Chaimowitz
> Project Manager
>
> CHEMTECH
>
> 284 Sheffield St. | Mountainside, NJ 07092
> Direct: (908) 728-3147
> s.chaim@chemtech.net<mailto:s.chaim@chemtech.net> |
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> notify us immediately by return e-mail, and permanently delete this
> transmission, including attachments if any, from any computer.
>
> From: Branson Fields [mailto:bfields@chazencompanies.com]
> Sent: Monday, March 15, 2021 9:10 AM
> To: s.chaim@chemtech.net<mailto:s.chaim@chemtech.net>
> Cc: kurt@chemtech.net<mailto:kurt@chemtech.net>
> Subject: RE: 20918.10_EP-1 SMP_March 2021 Quarterly
>
> Morning Steven,
> I apologize for the last minute request, may I please request a
> bottleware delivery to the Ebenezer Plaza-1 project Site tomorrow morning, 3/16/2021?
> My surplus bottleware supply was used last week. I will be on-Site by
> 8:00 am on Tuesday.
> Bottleware is needed for seven (7) groundwater samples with 8260 VOC
> analyses. I am overseeing monitoring well installations in advance of
> sampling and may or may not collect samples tomorrow. Please hold off
> on scheduling a pick-up for now, and I will coordinate as field
> activities advance.
> I appreciate your help.
> Thanks.
>
> Branson Fields
> Chazen, A LaBella Company | Environmental Scientist
> 547 River Street
> Troy, New York 12180
> Office: 518.266.7355
> Cell: 720.626.6362
> www.chazencompanies.com<https://protect-us.mimecast.com/s/d8t0C1wnQzTK
> nwvT1fmwP/>
>
> From: Steven Chaimowitz
> <S.Chaim@chemtech.net<mailto:S.Chaim@chemtech.net>>

> Sent: Tuesday, March 2, 2021 11:15 AM
> To: Branson Fields
> <bfields@chazencompanies.com<mailto:bfields@chazencompanies.com>>
> Cc: kurt@chemtech.net<mailto:kurt@chemtech.net>
> Subject: RE: 20918.10_EP-1 SMP_March 2021 Quarterly
>
> Hi Branson,
> Thank you for the heads up. We will cancel the pickup for today.
> Please let us know whenever you would like to reschedule. Thanks!
>
> Regards,
>
> Steven Chaimowitz
> Project Manager
>
> CHEMTECH
>
> 284 Sheffield St. | Mountainside, NJ 07092
> Direct: (908) 728-3147
> s.chaim@chemtech.net<mailto:s.chaim@chemtech.net> |
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>
> From: Branson Fields [mailto:bfields@chazencompanies.com]
> Sent: Tuesday, March 2, 2021 11:14 AM
> To: s.chaim@chemtech.net<mailto:s.chaim@chemtech.net>
> Cc: kurt@chemtech.net<mailto:kurt@chemtech.net>
> Subject: Re: 20918.10_EP-1 SMP_March 2021 Quarterly
>
> Hi Steven,
> Apologies for any inconvenience, but I'd like to cancel the sample
> pickup in Brooklyn today. Upon arrival at the site this morning, 3 of

> 5 wells have been destroyed due to construction activity and we have
> decided to postpone the sampling event. Thank you.
> Cheers,
> Branson Fields
>
>
> On Mar 1, 2021, at 10:33, Steven Chaimowitz
> <S.Chaim@chemtech.net<mailto:S.Chaim@chemtech.net>> wrote:
>
> Hi Branson,
> Confirmed for pickup tomorrow at 3pm at Ebenezer Plaza-1 project Site,
> 94 New Lots Avenue in Brooklyn.
>
> Thanks!
>
> Steven Chaimowitz
> Project Manager
>
> CHEMTECH
>
> 284 Sheffield St. | Mountainside, NJ 07092
> Direct: (908) 728-3147
> s.chaim@chemtech.net<mailto:s.chaim@chemtech.net> |
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> transmission, including attachments if any, from any computer.
>
> From: Branson Fields [mailto:bfields@chazencompanies.com]
> Sent: Monday, March 1, 2021 10:12 AM
> To: kurt@chemtech.net<mailto:kurt@chemtech.net>
> Cc: s.chaim@chemtech.net<mailto:s.chaim@chemtech.net>
> Subject: RE: 20918.10_EP-1 SMP_March 2021 Quarterly
>

> Hi Kurt,
>
> I appreciate the update. Look forward to working with you.
>
> Regards,
>
> Branson Fields
> Chazen, A LaBella Company | Environmental Scientist
> 547 River Street
> Troy, New York 12180
> Office: 518.266.7355
> Cell: 720.626.6362
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> KonIXFPHP/>
>
> From: Kurt Hummler <kurt@chemtech.net<mailto:kurt@chemtech.net>>
> Sent: Monday, March 1, 2021 10:05 AM
> To: Branson Fields
> <bfields@chazencompanies.com<mailto:bfields@chazencompanies.com>>
> Cc: s.chaim@chemtech.net<mailto:s.chaim@chemtech.net>
> Subject: RE: 20918.10_EP-1 SMP_March 2021 Quarterly
>
> Good morning Branson,
>
> Please note that Steven Kim no longer works for Chemtech. He’s gone
> on to the pharmaceutical field.
> You may contact me going forward with any questions or requests.
>
> Project Manager Steven Chaimowitz will coordinate the pickup with you.
>
> Regards
>
> Kurt
>
> Kurt Hummler
> Chemtech
> 284 Sheffield St | Mountainside, NJ 07092 Direct Phone: (908) 728-3143
> Office Phone: (908) 789 8900 ext. 3143
> Fax: (908) 789 8922
> www.chemtech.net<https://protect-us.mimecast.com/s/S-ldC31pO0TV7YLIEtK
> hy/>
>
> From: Branson Fields
> <bfields@chazencompanies.com<mailto:bfields@chazencompanies.com>>
> Sent: Monday, March 01, 2021 9:27 AM
> To: steven@chemtech.net<mailto:steven@chemtech.net>
> Subject: 20918.10_EP-1 SMP_March 2021 Quarterly
>
> Hey Steve;
>
> I have an another groundwater sampling event this Tuesday, 3/2/2021,

> at our Ebenezer Plaza-1 project Site, 94 New Lots Avenue in Brooklyn.
> 5 groundwater samples, with TB, and Dup are scoped for VOC analysis by
> 8260C, Cat A, with standard TAT.
>
> I have bottleware but would like to request a sample pick-up via lab
> courier tomorrow afternoon around 3pm. Can this please be scheduled?
>
> Thank You.
>
> Branson Fields
> Environmental Scientist
> <image003.png>
> 547 River Street
> Troy, New York 12180
> Office: 518.266.7355
> Cell:720.626.6362
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>
> <m1701coc.pdf>

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2020021
Maryland	296
New Hampshire	255420
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-18-00132
Texas	T104704488-20-13

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : M1785 CHAZ02
Client Name : Chazen Companies
Client Contact : Kevin McGrath
Invoice Name : Chazen Companies
Invoice Contact : Kevin McGrath

Order Date : 3/23/2021 12:41:00 PM
Project Name : Ebenzer Plaza-1 - 20918.10
Receive DateTime : 3/23/2021 12:00:00 AM
Purchase Order :

Project Mgr :
Report Type : NYS ASP B
EDD Type : NYSDEC EDD V-4
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
M1785-10	MW-1	Water	03/23/2021	12:20					
					VOCMS Group2		8260-Low		10 Bus. Days
M1785-11	M1785-10MS	Water	03/23/2021	12:20					
					VOCMS Group2		8260-Low		10 Bus. Days
M1785-12	M1785-10MSD	Water	03/23/2021	12:20					
					VOCMS Group2		8260-Low		10 Bus. Days
M1785-13	MW-2	Water	03/23/2021	11:40					
					VOCMS Group2		8260-Low		10 Bus. Days
M1785-14	MW-3R	Water	03/23/2021	11:00					
					VOCMS Group2		8260-Low		10 Bus. Days
M1785-15	MW-4	Water	03/23/2021	10:20					
					VOCMS Group2		8260-Low		10 Bus. Days
M1785-16	MW-5R	Water	03/23/2021	09:35					
					VOCMS Group2		8260-Low		10 Bus. Days
M1785-17	FD-032321	Water	03/23/2021	00:00					
					VOCMS Group2		8260-Low		10 Bus. Days
M1785-18	TRIP-BLANK	Water	03/23/2021	09:15					

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : M1785 CHAZ02
Client Name : Chazen Companies
Client Contact : Kevin McGrath
Invoice Name : Chazen Companies
Invoice Contact : Kevin McGrath

Order Date : 3/23/2021 12:41:00 PM
Project Name : Ebenzer Plaza-1 - 20918.10
Receive DateTime : 3/23/2021 12:00:00 AM
Purchase Order :

Project Mgr :
Report Type : NYS ASP B
EDD Type : NYSDEC EDD V-4
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group2		8260-Low	10 Bus. Days	

Relinguished By : CR
Date / Time : 3-24-21 9:20

Received By : M
Date / Time : 3-24-21 9:30

Storage Area : VOA Refridgerator Room