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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : NJ WASTE WATER PT

CHEMTECH CONSULTING GROUP

284 Sheffield St,

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : P3845

ATTENTION : QA Officer

Laboratory Certification ID # 20012

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Cover Page

Order ID : P3845

Project ID : NJ Waste Water PT

Client : Chemtech Consulting Group

Lab Sample Number	Client Sample Number
P3845-01	PT-VOA-WP
P3845-02	PT-VOA-WP
P3845-03	PT-BN-WP
P3845-04	PT-BN-WP
P3845-05	PT-BN-WP
P3845-06	PT-ACIDS-WP
P3845-07	PT-ACIDS-WP
P3845-08	PT-ACIDS-WP
P3845-09	PT-PEST-WP
P3845-10	PT-PEST-WP
P3845-11	PT-CHLR-WP
P3845-12	PT-CHLR-WP
P3845-13	PT-TXP-WP
P3845-14	PT-TXP-WP
P3845-15	PT-PCBW-WP
P3845-16	PT-PCBW-WP
P3845-17	PT-HERB-WP
P3845-18	RR-GAS-WP
P3845-19	RR-DIES-WP
P3845-20	RR-8011-WP
P3845-21	RR-PAH-WP
P3845-22	RR-TRIAZINE-WP

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

Signature : N. N. Pandya

APPROVED
Nimisha Pandya, QA/QC Supervisor , 10/28/2024, 10:32:34 AM

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Chemtech Consulting Group
Project Name: NJ Waste Water PT
Project # N/A
Chemtech Project # P3845
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
22 Water samples were received on 09/05/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide group1, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, SVOCMS Group6, VOCGC Group 1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike Duplicate met requirements for all samples.

The Blank Spike for {VN0911WBS01} with File ID: VN083799.D met requirements for all samples except for Isopropylacetate[119%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for {VN0910WBS01} with File ID: VN083753.D met requirements for all samples except for 1,3-Dichlorobenzene[81%], 1,4-Dichlorobenzene[80%] are failing marginally low therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The %RSD is greater than 15% in the Initial Calibration method (82N091024W.M) for Chloromethane , Methyl Acetate this compound is passing on Linear Regression.

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The Continuous Calibration File ID VN083791.D met the requirements except for 2-Chloroethyl Vinyl ether and Isopropyl Acetate are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Sample PT-VOA-WP was diluted due to high concentration.

E. Additional Comments:
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 <20% 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 > 20% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature N. N. Pandya

APPROVED

Nimisha Pandya, QA/QC Supervisor , 10/28/2024, 10:32:53 AM

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

QA Control # A3040960

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P3845 MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓

Item 5:

The %RSD is greater than 15% in the Initial Calibration method (82N091024W.M) for Chloromethane , Methyl Acetate this compound is passing on Linear Regression.

The Continuous Calibration File ID VN083791.D met the requirements except for 2-Chloroethyl Vinyl ether and Isopropyl Acetate are failing high but no positive hit in associate sample therefore no corrective action taken.

Item 7:

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

Item 8:

If not met, list those compounds and their recoveries which fall outside the acceptable range.

The Blank Spike Duplicate met requirements for all samples.

The Blank Spike for {VN0911WBS01} with File ID: VN083799.D met requirements for all samples except for Isopropylacetate[119%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for {VN0910WBS01} with File ID: VN083753.D met requirements for all samples except for 1,3-Dichlorobenzene[81%], 1,4-Dichlorobenzene[80%] are failing marginally low therefore no corrective action taken.

Item 9:

Comments:

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

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

ADDITIONAL COMMENTS:
Sample PT-VOA-WP 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 <20% 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 > 20% for the Initial Calibration curve for SW-846 analysis.

S. M. Jodhani
QA REVIEW

APPROVED
By Sohil Jodhani, QA/QC Director at 10:16 am, Oct 28, 2024
Date

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

QA REVIEW GENERAL DOCUMENTATION

Project #: P3845

	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	✓

QA Review Signature: **SOHIL JODHANI** **Date:** **10/21/2024**

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LAB CHRONICLE

OrderID:	P3845	**OrderDate:**	9/5/2024 2:19:00 PM
Client:	Chemtech Consulting Group	**Project:**	NJ Waste Water PT
Contact:	QA Officer	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3845-01	**PT-VOA-WP**	**Water**			**09/03/24**			**09/05/24**
			VOCMS Group1	8260-Low			09/10/24	
P3845-01DL	**PT-VOA-WPDL**	**Water**			**09/03/24**			**09/05/24**
			VOCMS Group1	8260-Low			09/11/24	
P3845-02	**PT-VOA-WP**	**Water**			**09/03/24**			**09/05/24**
			VOCMS Group1	624.1			09/09/24	

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Hit Summary Sheet
SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**PT-VOA-WP**							
P3845-01	PT-VOA-WP	Water	Vinyl Chloride	34.7		0.34	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Bromomethane	47.4		1.40	5.00	ug/L
P3845-01	PT-VOA-WP	Water	Acetone	41.1		1.40	5.00	ug/L
P3845-01	PT-VOA-WP	Water	Methyl tert-butyl Ether	74.2		0.16	1.00	ug/L
P3845-01	PT-VOA-WP	Water	trans-1,2-Dichloroethene	100	E	0.25	1.00	ug/L
P3845-01	PT-VOA-WP	Water	2-Butanone	90.7		1.30	5.00	ug/L
P3845-01	PT-VOA-WP	Water	cis-1,2-Dichloroethene	21.1		0.25	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Chloroform	22.9		0.26	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Benzene	41.3		0.16	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2-Dichloroethane	140	E	0.24	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Trichloroethene	57.8		0.32	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2-Dichloropropane	20.9		0.19	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Dibromomethane	15.5		0.23	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Bromodichloromethane	93.4		0.24	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Toluene	100	E	0.18	1.00	ug/L
P3845-01	PT-VOA-WP	Water	t-1,3-Dichloropropene	110	E	0.21	1.00	ug/L
P3845-01	PT-VOA-WP	Water	cis-1,3-Dichloropropene	110	E	0.18	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Dibromochloromethane	31.2		0.18	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2-Dibromoethane	40.8		0.16	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Chlorobenzene	46.9		0.13	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Ethyl Benzene	90.8		0.16	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Total Xylenes	147		0.45	3.00	ug/L
P3845-01	PT-VOA-WP	Water	m/p-Xylenes	27.1		0.31	2.00	ug/L
P3845-01	PT-VOA-WP	Water	o-Xylene	120	E	0.14	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Styrene	110	E	0.16	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Bromoform	78.8		0.21	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2,3-Trichloropropane	100	E	0.39	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,3,5-Trimethylbenzene	30.9		0.18	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2,4-Trimethylbenzene	15.8		0.18	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,3-Dichlorobenzene	97.7	Q	0.24	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,4-Dichlorobenzene	40.2	Q	0.27	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2-Dichlorobenzene	14.0		0.19	1.00	ug/L
P3845-01	PT-VOA-WP	Water	1,2-Dibromo-3-Chloropropane	130	E	0.46	1.00	ug/L
P3845-01	PT-VOA-WP	Water	Naphthalene	74.8		0.59	1.00	ug/L
			Total Voc :	2170				
			Total Concentration:	2170				

Alliance TECHNICAL GROUP
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Hit Summary Sheet
SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**PT-VOA-WPDL**							
P3845-01DL	PT-VOA-WPDL	Water	Vinyl Chloride	32.9	D	0.68	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Bromomethane	44.7	D	2.70	10.0	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Acetone	41.1	D	2.80	10.0	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Methyl tert-butyl Ether	69.5	D	0.32	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	trans-1,2-Dichloroethene	96.2	D	0.50	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	2-Butanone	86.6	D	2.60	10.0	ug/L
P3845-01DL	PT-VOA-WPDL	Water	cis-1,2-Dichloroethene	19.6	D	0.50	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Chloroform	20.8	D	0.52	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Benzene	37.3	D	0.32	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2-Dichloroethane	130	D	0.48	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Trichloroethene	53.3	D	0.64	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2-Dichloropropane	20.2	D	0.38	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Dibromomethane	15.2	D	0.46	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Bromodichloromethane	86.7	D	0.48	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Toluene	90.7	D	0.36	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	t-1,3-Dichloropropene	98.5	D	0.42	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	cis-1,3-Dichloropropene	98.2	D	0.36	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Dibromochloromethane	27.7	D	0.36	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2-Dibromoethane	37.8	D	0.32	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Chlorobenzene	41.2	D	0.26	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Ethyl Benzene	78.7	D	0.32	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Total Xylenes	123	D	0.90	6.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	m/p-Xylenes	23.9	D	0.62	4.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	o-Xylene	98.8	D	0.28	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Styrene	93.1	D	0.32	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Bromoform	66.8	D	0.42	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2,3-Trichloropropane	87.7	D	0.78	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,3,5-Trimethylbenzene	25.7	D	0.36	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2,4-Trimethylbenzene	12.5	D	0.36	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,3-Dichlorobenzene	80.7	D	0.48	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,4-Dichlorobenzene	34.2	D	0.54	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2-Dichlorobenzene	11.6	D	0.38	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	1,2-Dibromo-3-Chloropropane	110	D	0.92	2.00	ug/L
P3845-01DL	PT-VOA-WPDL	Water	Naphthalene	59.4	D	1.20	2.00	ug/L
			Total Voc :	1930				
			Total Concentration:	1930				

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Hit Summary Sheet
SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

QC SUMMARY

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Surrogate Summary

SDG No.: **P3845**

Client: **Chemtech Consulting Group**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
P3845-01	PT-VOA-WP	1,2-Dichloroethane-d4	50	48.1	96		74	125
		Dibromofluoromethane	50	45.7	91		75	124
		Toluene-d8	50	48.6	97		86	113
		4-Bromofluorobenzene	50	44.6	89		77	121
P3845-01DL	PT-VOA-WPDL	1,2-Dichloroethane-d4	50	52.3	105		74	125
		Dibromofluoromethane	50	49.0	98		75	124
		Toluene-d8	50	51.0	102		86	113
		4-Bromofluorobenzene	50	49.1	98		77	121
VN0910WBL01	VN0910WBL01	1,2-Dichloroethane-d4	50	52.5	105		74	125
		Dibromofluoromethane	50	48.0	96		75	124
		Toluene-d8	50	48.1	96		86	113
		4-Bromofluorobenzene	50	53.5	107		77	121
VN0910WBS01	VN0910WBS01	1,2-Dichloroethane-d4	50	50.0	100		74	125
		Dibromofluoromethane	50	48.3	97		75	124
		Toluene-d8	50	50.8	102		86	113
		4-Bromofluorobenzene	50	47.3	95		77	121
VN0910WBSD0	VN0910WBSD01	1,2-Dichloroethane-d4	50	46.9	94		74	125
		Dibromofluoromethane	50	45.8	92		75	124
		Toluene-d8	50	48.4	97		86	113
		4-Bromofluorobenzene	50	45.1	90		77	121
VN0911WBL01	VN0911WBL01	1,2-Dichloroethane-d4	50	55.7	111		74	125
		Dibromofluoromethane	50	49.4	99		75	124
		Toluene-d8	50	51.1	102		86	113
		4-Bromofluorobenzene	50	57.0	114		77	121
VN0911WBS01	VN0911WBS01	1,2-Dichloroethane-d4	50	50.6	101		74	125
		Dibromofluoromethane	50	48.7	97		75	124
		Toluene-d8	50	51.5	103		86	113
		4-Bromofluorobenzene	50	47.0	94		77	121

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **P3845**

Client: **Chemtech Consulting Group**

Analytical Method: **SW8260-Low** **Datafile :** VN083753.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0910WBS01	Dichlorodifluoromethane	20	18.7	ug/L	94			69	116	
	Chloromethane	20	18.1	ug/L	91			65	116	
	Vinyl chloride	20	17.5	ug/L	88			65	117	
	Ethyl Acetate	20	18.7	ug/L	94			75	115	
	Isopropylacetate	20	18.1	ug/L	91			84	106	
	Bromomethane	20	17.3	ug/L	86			58	125	
	Chloroethane	20	16.0	ug/L	80			56	128	
	Trichlorofluoromethane	20	17.6	ug/L	88			73	115	
	1,1,2-Trichlorotrifluoroethane	20	17.8	ug/L	89			80	112	
	Tert butyl alcohol	100	93.1	ug/L	93			73	124	
	Diethyl Ether	20	17.2	ug/L	86			80	105	
	1,1-Dichloroethene	20	17.6	ug/L	88			74	110	
	Acrolein	100	100	ug/L	100			51	143	
	Acrylonitrile	100	90.8	ug/L	91			73	113	
	Acetone	100	96.0	ug/L	96			60	125	
	Carbon disulfide	20	16.6	ug/L	83			64	112	
	Methyl tert-butyl Ether	20	17.9	ug/L	90			78	114	
	Methyl Acetate	20	18.5	ug/L	93			67	125	
	Methylene Chloride	20	17.9	ug/L	90			72	114	
	trans-1,2-Dichloroethene	20	16.6	ug/L	83			75	108	
	Vinyl Acetate	100	90.9	ug/L	91			76	115	
	1,1-Dichloroethane	20	17.3	ug/L	86			78	112	
	Cyclohexane	20	16.6	ug/L	83			75	110	
	2-Butanone	100	93.6	ug/L	94			65	122	
	Carbon Tetrachloride	20	17.7	ug/L	89			77	113	
	2,2-Dichloropropane	20	18.2	ug/L	91			75	116	
	cis-1,2-Dichloroethene	20	17.7	ug/L	89			77	110	
	Chloroform	20	17.6	ug/L	88			79	113	
	1,1,1-Trichloroethane	20	17.9	ug/L	90			80	108	
	Methylcyclohexane	20	17.8	ug/L	89			72	115	
	1,1-Dichloropropene	20	16.7	ug/L	84			79	110	
	Benzene	20	17.5	ug/L	88			82	109	
	1,2-Dichloroethane	20	18.1	ug/L	91			80	115	
	Trichloroethene	20	17.1	ug/L	86			77	113	
	1,2-Dichloropropane	20	17.6	ug/L	88			83	111	
	Dibromomethane	20	18.1	ug/L	91			82	110	
	Bromodichloromethane	20	18.1	ug/L	91			83	110	
	4-Methyl-2-Pentanone	100	94.3	ug/L	94			74	118	
	Toluene	20	18.2	ug/L	91			82	110	
	t-1,3-Dichloropropene	20	17.5	ug/L	88			79	110	
	cis-1,3-Dichloropropene	20	17.4	ug/L	87			82	110	
	1,1,2-Trichloroethane	20	17.4	ug/L	87			83	112	
	1,3-Dichloropropane	20	18.3	ug/L	92			83	111	
	2-Chloroethyl vinyl ether	100	92.5	ug/L	93			75	124	
	2-Hexanone	100	96.6	ug/L	97			73	117	
	Dibromochloromethane	20	18.5	ug/L	93			82	110	
	1,2-Dibromoethane	20	18.3	ug/L	92			81	110	
	Tetrachloroethene	20	16.9	ug/L	85			67	123	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **P3845**

Client: **Chemtech Consulting Group**

Analytical Method: **SW8260-Low** **Datafile :** VN083753.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0910WBS01	Chlorobenzene	20	16.9	ug/L	85			82	109	
	1,1,1,2-Tetrachloroethane	20	17.0	ug/L	85			84	111	
	Hexachloroethane	20	17.5	ug/L	88			80	113	
	Ethyl Benzene	20	17.4	ug/L	87			83	109	
	m/p-Xylenes	40	34.9	ug/L	87			82	110	
	o-Xylene	20	17.7	ug/L	89			83	109	
	Styrene	20	17.9	ug/L	90			80	111	
	Bromoform	20	18.5	ug/L	93			79	109	
	Isopropylbenzene	20	17.4	ug/L	87			83	112	
	1,1,2,2-Tetrachloroethane	20	17.4	ug/L	87			76	118	
	1,2,3-Trichloropropane	20	17.6	ug/L	88			75	112	
	Bromobenzene	20	17.3	ug/L	86			77	116	
	N-propylbenzene	20	17.7	ug/L	89			83	112	
	2-Chlorotoluene	20	17.5	ug/L	88			83	110	
	1,3,5-Trimethylbenzene	20	17.6	ug/L	88			85	112	
	4-Chlorotoluene	20	17.4	ug/L	87			82	110	
	tert-Butylbenzene	20	17.6	ug/L	88			83	112	
	1,2,4-Trimethylbenzene	20	17.7	ug/L	89			85	111	
	Sec-butylbenzene	20	17.5	ug/L	88			81	114	
	p-Isopropyltoluene	20	17.5	ug/L	88			78	116	
	1,3-Dichlorobenzene	20	16.3	ug/L	81		*	82	108	
	1,4-Dichlorobenzene	20	16.0	ug/L	80		*	82	107	
	n-Butylbenzene	20	16.5	ug/L	83			75	115	
	1,2-Dichlorobenzene	20	16.9	ug/L	85			82	109	
	1,2-Dibromo-3-Chloropropane	20	18.9	ug/L	95			68	112	
	1,2,4-Trichlorobenzene	20	16.0	ug/L	80			75	113	
	Hexachlorobutadiene	20	16.4	ug/L	82			81	121	
	Naphthalene	20	17.1	ug/L	86			78	119	
	1,2,3-Trichlorobenzene	20	16.1	ug/L	81			76	114	
	N-amyl acetate	20	18.0	ug/L	90			82	107	
	Allyl chloride	20	18.0	ug/L	90			83	103	
	Methacrylonitrile	20	18.3	ug/L	92			78	113	
	trans-1,4-Dichloro-2-butene	20	17.2	ug/L	86			79	102	
	1,4-Dioxane	400	370	ug/L	93			54	145	
	Methyl methacrylate	20	18.1	ug/L	91			81	126	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: SW8260-Low **Datafile :** VN083754.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0910WBSD01	Dichlorodifluoromethane	20	19.4	ug/L	97	3		69	116	20
	Chloromethane	20	18.7	ug/L	94	3		65	116	20
	Vinyl chloride	20	18.7	ug/L	94	7		65	117	20
	Ethyl Acetate	20	20.6	ug/L	103	9		75	115	20
	Isopropylacetate	20	19.4	ug/L	97	6		84	106	20
	Bromomethane	20	19.1	ug/L	96	11		58	125	20
	Chloroethane	20	18.4	ug/L	92	14		56	128	20
	Trichlorofluoromethane	20	18.5	ug/L	93	6		73	115	20
	1,1,2-Trichlorotrifluoroethane	20	19.2	ug/L	96	8		80	112	20
	Tert butyl alcohol	100	100	ug/L	100	7		73	124	20
	Diethyl Ether	20	18.2	ug/L	91	6		80	105	20
	1,1-Dichloroethene	20	18.7	ug/L	94	7		74	110	20
	Acrolein	100	100	ug/L	100	0		51	143	20
	Acrylonitrile	100	97.4	ug/L	97	6		73	113	20
	Acetone	100	96.1	ug/L	96	0		60	125	20
	Carbon disulfide	20	17.8	ug/L	89	7		64	112	20
	Methyl tert-butyl Ether	20	18.9	ug/L	95	5		78	114	20
	Methyl Acetate	20	21.0	ug/L	105	12		67	125	20
	Methylene Chloride	20	19.0	ug/L	95	5		72	114	20
	trans-1,2-Dichloroethene	20	18.1	ug/L	91	9		75	108	20
	Vinyl Acetate	100	97.5	ug/L	98	7		76	115	20
	1,1-Dichloroethane	20	18.5	ug/L	93	8		78	112	20
	Cyclohexane	20	17.8	ug/L	89	7		75	110	20
	2-Butanone	100	97.6	ug/L	98	4		65	122	20
	Carbon Tetrachloride	20	18.9	ug/L	95	7		77	113	20
	2,2-Dichloropropane	20	18.5	ug/L	93	2		75	116	20
	cis-1,2-Dichloroethene	20	18.5	ug/L	93	4		77	110	20
	Chloroform	20	18.2	ug/L	91	3		79	113	20
	1,1,1-Trichloroethane	20	18.3	ug/L	92	2		80	108	20
	Methylcyclohexane	20	18.7	ug/L	94	5		72	115	20
	1,1-Dichloropropene	20	18.1	ug/L	91	8		79	110	20
	Benzene	20	18.8	ug/L	94	7		82	109	20
	1,2-Dichloroethane	20	18.9	ug/L	95	4		80	115	20
	Trichloroethene	20	18.7	ug/L	94	9		77	113	20
	1,2-Dichloropropane	20	18.5	ug/L	93	6		83	111	20
	Dibromomethane	20	19.4	ug/L	97	6		82	110	20
	Bromodichloromethane	20	18.8	ug/L	94	3		83	110	20
	4-Methyl-2-Pentanone	100	100	ug/L	100	6		74	118	20
	Toluene	20	18.7	ug/L	94	3		82	110	20
	t-1,3-Dichloropropene	20	18.9	ug/L	95	8		79	110	20
	cis-1,3-Dichloropropene	20	19.1	ug/L	96	10		82	110	20
	1,1,2-Trichloroethane	20	19.0	ug/L	95	9		83	112	20
	1,3-Dichloropropane	20	19.4	ug/L	97	5		83	111	20
	2-Chloroethyl vinyl ether	100	95.2	ug/L	95	2		75	124	20
	2-Hexanone	100	100	ug/L	100	3		73	117	20
	Dibromochloromethane	20	19.1	ug/L	96	3		82	110	20
	1,2-Dibromoethane	20	19.3	ug/L	97	5		81	110	20
	Tetrachloroethene	20	17.8	ug/L	89	5		67	123	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: SW8260-Low **Datafile :** VN083754.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0910WBSD01	Chlorobenzene	20	18.3	ug/L	92	8		82	109	20
	1,1,1,2-Tetrachloroethane	20	19.1	ug/L	96	12		84	111	20
	Ethyl Benzene	20	18.8	ug/L	94	8		83	109	20
	m/p-Xylenes	40	37.0	ug/L	93	7		82	110	20
	o-Xylene	20	19.0	ug/L	95	7		83	109	20
	Styrene	20	19.0	ug/L	95	5		80	111	20
	Bromoform	20	19.7	ug/L	99	6		79	109	20
	Isopropylbenzene	20	18.5	ug/L	93	7		83	112	20
	1,1,2,2-Tetrachloroethane	20	19.5	ug/L	98	12		76	118	20
	1,2,3-Trichloropropane	20	18.5	ug/L	93	6		75	112	20
	Bromobenzene	20	17.8	ug/L	89	3		77	116	20
	N-propylbenzene	20	18.4	ug/L	92	3		83	112	20
	2-Chlorotoluene	20	18.8	ug/L	94	7		83	110	20
	1,3,5-Trimethylbenzene	20	18.2	ug/L	91	3		85	112	20
	4-Chlorotoluene	20	18.6	ug/L	93	7		82	110	20
	tert-Butylbenzene	20	18.7	ug/L	94	7		83	112	20
	1,2,4-Trimethylbenzene	20	18.8	ug/L	94	5		85	111	20
	Sec-butylbenzene	20	18.6	ug/L	93	6		81	114	20
	p-Isopropyltoluene	20	18.4	ug/L	92	4		78	116	20
	1,3-Dichlorobenzene	20	18.1	ug/L	91	12		82	108	20
	1,4-Dichlorobenzene	20	17.6	ug/L	88	10		82	107	20
	n-Butylbenzene	20	18.0	ug/L	90	8		75	115	20
	1,2-Dichlorobenzene	20	18.5	ug/L	93	9		82	109	20
	1,2-Dibromo-3-Chloropropane	20	20.0	ug/L	100	5		68	112	20
	1,2,4-Trichlorobenzene	20	17.4	ug/L	87	8		75	113	20
	Hexachlorobutadiene	20	18.0	ug/L	90	9		81	121	20
	Naphthalene	20	18.6	ug/L	93	8		78	119	20
	1,2,3-Trichlorobenzene	20	17.2	ug/L	86	6		76	114	20
	N-amyl acetate	20	19.5	ug/L	98	9		82	107	20
	Allyl chloride	20	18.9	ug/L	95	5		83	103	20
	Methacrylonitrile	20	19.1	ug/L	96	4		78	113	20
	trans-1,4-Dichloro-2-butene	20	19.9	ug/L	100	15		79	102	20
	1,4-Dioxane	400	390	ug/L	98	5		54	145	20
	Methyl methacrylate	20	19.2	ug/L	96	5		81	126	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **P3845**

Client: **Chemtech Consulting Group**

Analytical Method: **SW8260-Low** **Datafile :** VN083799.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0911WBS01	Dichlorodifluoromethane	20	19.3	ug/L	97			69	116	
	Chloromethane	20	18.5	ug/L	93			65	116	
	Vinyl chloride	20	18.4	ug/L	92			65	117	
	Ethyl Acetate	20	21.2	ug/L	106			75	115	
	Isopropylacetate	20	23.8	ug/L	119		*	84	106	
	Bromomethane	20	19.4	ug/L	97			58	125	
	Chloroethane	20	18.9	ug/L	95			56	128	
	Trichlorofluoromethane	20	19.0	ug/L	95			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.4	ug/L	97			80	112	
	Tert butyl alcohol	100	100	ug/L	100			73	124	
	Diethyl Ether	20	19.1	ug/L	96			80	105	
	1,1-Dichloroethene	20	18.7	ug/L	94			74	110	
	Acrolein	100	89.8	ug/L	90			51	143	
	Acrylonitrile	100	100	ug/L	100			73	113	
	Acetone	100	90.0	ug/L	90			60	125	
	Carbon disulfide	20	17.3	ug/L	86			64	112	
	Methyl tert-butyl Ether	20	19.3	ug/L	97			78	114	
	Methyl Acetate	20	21.4	ug/L	107			67	125	
	Methylene Chloride	20	19.1	ug/L	96			72	114	
	trans-1,2-Dichloroethene	20	18.3	ug/L	92			75	108	
	Vinyl Acetate	100	100	ug/L	100			76	115	
	1,1-Dichloroethane	20	19.0	ug/L	95			78	112	
	Cyclohexane	20	18.4	ug/L	92			75	110	
	2-Butanone	100	97.8	ug/L	98			65	122	
	Carbon Tetrachloride	20	18.9	ug/L	95			77	113	
	2,2-Dichloropropane	20	18.6	ug/L	93			75	116	
	cis-1,2-Dichloroethene	20	19.1	ug/L	96			77	110	
	Chloroform	20	18.9	ug/L	95			79	113	
	1,1,1-Trichloroethane	20	18.8	ug/L	94			80	108	
	Methylcyclohexane	20	18.7	ug/L	94			72	115	
	1,1-Dichloropropene	20	17.7	ug/L	89			79	110	
	Benzene	20	18.8	ug/L	94			82	109	
	1,2-Dichloroethane	20	20.5	ug/L	103			80	115	
	Trichloroethene	20	18.5	ug/L	93			77	113	
	1,2-Dichloropropane	20	19.8	ug/L	99			83	111	
	Dibromomethane	20	19.3	ug/L	97			82	110	
	Bromodichloromethane	20	19.3	ug/L	97			83	110	
	4-Methyl-2-Pentanone	100	110	ug/L	110			74	118	
	Toluene	20	19.1	ug/L	96			82	110	
	t-1,3-Dichloropropene	20	18.4	ug/L	92			79	110	
	cis-1,3-Dichloropropene	20	18.9	ug/L	95			82	110	
	1,1,2-Trichloroethane	20	18.8	ug/L	94			83	112	
	1,3-Dichloropropane	20	20.1	ug/L	101			83	111	
	2-Chloroethyl vinyl ether	100	110	ug/L	110			75	124	
	2-Hexanone	100	100	ug/L	100			73	117	
	Dibromochloromethane	20	19.7	ug/L	99			82	110	
	1,2-Dibromoethane	20	18.8	ug/L	94			81	110	
	Tetrachloroethene	20	17.4	ug/L	87			67	123	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **P3845**

Client: **Chemtech Consulting Group**

Analytical Method: **SW8260-Low** **Datafile :** VN083799.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0911WBS01	Chlorobenzene	20	18.1	ug/L	91			82	109	
	1,1,1,2-Tetrachloroethane	20	19.0	ug/L	95			84	111	
	Ethyl Benzene	20	18.6	ug/L	93			83	109	
	m/p-Xylenes	40	36.2	ug/L	91			82	110	
	o-Xylene	20	18.3	ug/L	92			83	109	
	Styrene	20	19.1	ug/L	96			80	111	
	Bromoform	20	20.2	ug/L	101			79	109	
	Isopropylbenzene	20	17.9	ug/L	90			83	112	
	1,1,2,2-Tetrachloroethane	20	18.8	ug/L	94			76	118	
	1,2,3-Trichloropropane	20	18.7	ug/L	94			75	112	
	Bromobenzene	20	17.3	ug/L	86			77	116	
	N-propylbenzene	20	17.5	ug/L	88			83	112	
	2-Chlorotoluene	20	18.1	ug/L	91			83	110	
	1,3,5-Trimethylbenzene	20	18.3	ug/L	92			85	112	
	4-Chlorotoluene	20	17.4	ug/L	87			82	110	
	tert-Butylbenzene	20	18.3	ug/L	92			83	112	
	1,2,4-Trimethylbenzene	20	18.4	ug/L	92			85	111	
	Sec-butylbenzene	20	18.0	ug/L	90			81	114	
	p-Isopropyltoluene	20	17.6	ug/L	88			78	116	
	1,3-Dichlorobenzene	20	16.7	ug/L	84			82	108	
	1,4-Dichlorobenzene	20	16.8	ug/L	84			82	107	
	n-Butylbenzene	20	16.3	ug/L	81			75	115	
	1,2-Dichlorobenzene	20	17.9	ug/L	90			82	109	
	1,2-Dibromo-3-Chloropropane	20	20.2	ug/L	101			68	112	
	1,2,4-Trichlorobenzene	20	16.3	ug/L	81			75	113	
	Hexachlorobutadiene	20	17.3	ug/L	86			81	121	
	Naphthalene	20	17.5	ug/L	88			78	119	
	1,2,3-Trichlorobenzene	20	16.1	ug/L	81			76	114	
	N-amyl acetate	20	19.7	ug/L	99			82	107	
	Allyl chloride	20	19.1	ug/L	96			83	103	
	Methacrylonitrile	20	19.5	ug/L	98			78	113	
	trans-1,4-Dichloro-2-butene	20	17.9	ug/L	90			79	102	
	1,4-Dioxane	400	420	ug/L	105			54	145	
	Methyl methacrylate	20	20.9	ug/L	104			81	126	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VN0910WBL01

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Lab File ID: VN083752.D Lab Sample ID: VN0910WBL01

Date Analyzed: 09/10/2024 Time Analyzed: 14:34

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0910WBS01	VN0910WBS01	VN083753.D	09/10/2024
VN0910WBSD01	VN0910WBSD01	VN083754.D	09/10/2024
PT-VOA-WP	P3845-01	VN083755.D	09/10/2024

COMMENTS:

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Fax : 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0911WBL01

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Lab File ID: VN083793.D Lab Sample ID: VN0911WBL01

Date Analyzed: 09/11/2024 Time Analyzed: 13:57

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PT-VOA-WPDL	P3845-01DL	VN083797.D	09/11/2024
VN0911WBS01	VN0911WBS01	VN083799.D	09/11/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Lab File ID: VN083741.D BFB Injection Date: 09/10/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:02

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 60.0% of mass 95	56.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.6 (0.9) 1
174	50.0 - 100.0% of mass 95	71.3
175	5.0 - 9.0% of mass 174	5.5 (7.7) 1
176	95.0 - 101.0% of mass 174	68.5 (96.1) 1
177	5.0 - 9.0% of mass 176	4.6 (6.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN083742.D	09/10/2024	09:08
VSTDICCC050	VSTDICCC050	VN083743.D	09/10/2024	09:32
VSTDICC010	VSTDICC010	VN083745.D	09/10/2024	10:20
VSTDICC005	VSTDICC005	VN083746.D	09/10/2024	10:44
VSTDICC001	VSTDICC001	VN083747.D	09/10/2024	11:32
VSTDICC020	VSTDICC020	VN083749.D	09/10/2024	12:43
VN0910WBL01	VN0910WBL01	VN083752.D	09/10/2024	14:34
VN0910WBS01	VN0910WBS01	VN083753.D	09/10/2024	15:34
VN0910WBSD01	VN0910WBSD01	VN083754.D	09/10/2024	16:07
PT-VOA-WP	P3845-01	VN083755.D	09/10/2024	16:31

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Lab File ID: VN083790.D BFB Injection Date: 09/11/2024

Instrument ID: MSVOA_N BFB Injection Time: 12:25

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	58.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	72.5
175	5.0 - 9.0% of mass 174	5.4 (7.5) 1
176	95.0 - 101.0% of mass 174	69.4 (95.7) 1
177	5.0 - 9.0% of mass 176	4.5 (6.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN083791.D	09/11/2024	12:59
VN0911WBL01	VN0911WBL01	VN083793.D	09/11/2024	13:57
PT-VOA-WPDL	P3845-01DL	VN083797.D	09/11/2024	15:33
VN0911WBS01	VN0911WBS01	VN083799.D	09/11/2024	16:45

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Lab File ID: VN083743.D Date Analyzed: 09/10/2024

Instrument ID: MSVOA_N Time Analyzed: 09:32

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	172686	8.22	304866	9.10	265988	11.87
UPPER LIMIT	345372	8.724	609732	9.6	531976	12.365
LOWER LIMIT	86343	7.724	152433	8.6	132994	11.365
EPA SAMPLE NO.						
PT-VOA-WP	150997	8.22	261805	9.10	226980	11.87
VN0910WBL01	124023	8.22	258209	9.10	273442	11.87
VN0910WBS01	162351	8.22	280742	9.10	247046	11.87
VN0910WBSD01	155285	8.22	268277	9.10	233025	11.87

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Lab File ID: VN083743.D Date Analyzed: 09/10/2024

Instrument ID: MSVOA_N Time Analyzed: 09:32

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

	IS4 AREA #	RT #				
12 HOUR STD	127433	13.788				
UPPER LIMIT	254866	14.288				
LOWER LIMIT	63716.5	13.288				
EPA SAMPLE NO.						
PT-VOA-WP	109081	13.79				
VN0910WBL01	126892	13.79				
VN0910WBS01	118496	13.79				
VN0910WBSD01	112657	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH   Contract: CHEM02

Lab Code: CHEM   Case No.: P3845   SAS No.: P3845   SDG NO.: P3845

Lab File ID: VN083791.D   Date Analyzed: 09/11/2024

Instrument ID: MSVOA_N   Time Analyzed: 12:59

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	152640	8.22	259748	9.10	228788	11.87
UPPER LIMIT	305280	8.724	519496	9.6	457576	12.365
LOWER LIMIT	76320	7.724	129874	8.6	114394	11.365
EPA SAMPLE NO.						
PT-VOA-WPDL	148437	8.22	263183	9.10	234657	11.87
VN0911WBL01	117065	8.22	246226	9.10	271430	11.87
VN0911WBS01	149250	8.22	261095	9.10	227203	11.87

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Lab File ID: VN083791.D Date Analyzed: 09/11/2024

Instrument ID: MSVOA_N Time Analyzed: 12:59

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

	IS4 AREA #	RT #				
12 HOUR STD	116418	13.794				
UPPER LIMIT	232836	14.294				
LOWER LIMIT	58209	13.294				
EPA SAMPLE NO.						
PT-VOA-WPDL	115304	13.79				
VN0911WBL01	129037	13.79				
VN0911WBS01	111791	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

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Alliance TECHNICAL GROUP

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WP	SDG No.:	P3845
Lab Sample ID:	P3845-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083755.D	1		09/10/24 16:31	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	34.7		0.34	1.00	ug/L
141-78-6	Ethyl Acetate	0.38	U	0.38	1.00	ug/L
108-21-4	Isopropyl Acetate	0.29	U	0.29	1.00	ug/L
74-83-9	Bromomethane	47.4		1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
109-99-9	Tetrahydrofuran	1.20	U	1.20	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-65-0	Tert butyl alcohol	5.60	U	5.60	25.0	ug/L
60-29-7	Diethyl Ether	0.20	U	0.20	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
107-02-8	Acrolein	6.70	U	6.70	25.0	ug/L
107-13-1	Acrylonitrile	0.90	U	0.90	5.00	ug/L
67-64-1	Acetone	41.1		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	74.2		0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	100	E	0.25	1.00	ug/L
108-05-4	Vinyl Acetate	0.71	U	0.71	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	90.7		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
594-20-7	2,2-Dichloropropane	0.31	U	0.31	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.1		0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	22.9		0.26	1.00	ug/L

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WP	SDG No.:	P3845
Lab Sample ID:	P3845-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083755.D	1		09/10/24 16:31	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
563-58-6	1,1-Dichloropropene	0.18	U	0.18	1.00	ug/L
71-43-2	Benzene	41.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	140	E	0.24	1.00	ug/L
79-01-6	Trichloroethene	57.8		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.9		0.19	1.00	ug/L
74-95-3	Dibromomethane	15.5		0.23	1.00	ug/L
75-27-4	Bromodichloromethane	93.4		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	100	E	0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	110	E	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	110	E	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
142-28-9	1,3-Dichloropropane	0.17	U	0.17	1.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	1.80	U	1.80	5.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	31.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	40.8		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	46.9		0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.00	ug/L
67-72-1	Hexachloroethane	0.29	UQ	0.29	1.00	ug/L
100-41-4	Ethyl Benzene	90.8		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	27.1		0.31	2.00	ug/L
1330-20-7	Total Xylenes	147		0.45	3.00	ug/L
95-47-6	o-Xylene	120	E	0.14	1.00	ug/L
100-42-5	Styrene	110	E	0.16	1.00	ug/L
75-25-2	Bromoform	78.8		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WP	SDG No.:	P3845
Lab Sample ID:	P3845-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083755.D	1		09/10/24 16:31	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
96-18-4	1,2,3-Trichloropropane	100	E	0.39	1.00	ug/L
108-86-1	Bromobenzene	0.26	U	0.26	1.00	ug/L
103-65-1	n-propylbenzene	0.14	U	0.14	1.00	ug/L
95-49-8	2-Chlorotoluene	0.16	U	0.16	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	30.9		0.18	1.00	ug/L
106-43-4	4-Chlorotoluene	0.18	U	0.18	1.00	ug/L
98-06-6	tert-Butylbenzene	0.17	U	0.17	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	15.8		0.18	1.00	ug/L
135-98-8	sec-Butylbenzene	0.17	U	0.17	1.00	ug/L
99-87-6	p-Isopropyltoluene	0.15	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	97.7	Q	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	40.2	Q	0.27	1.00	ug/L
104-51-8	n-Butylbenzene	0.22	U	0.22	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	14.0		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	130	E	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-68-3	Hexachlorobutadiene	0.31	U	0.31	1.00	ug/L
91-20-3	Naphthalene	74.8		0.59	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
628-63-7	N-amyl acetate	0.23	U	0.23	1.00	ug/L
74-88-4	Methyl Iodide	1.20	U	1.20	5.00	ug/L
107-05-1	Allyl chloride	0.24	U	0.24	1.00	ug/L
126-98-7	Methacrylonitrile	0.31	U	0.31	1.00	ug/L
97-63-2	Ethyl methacrylate	0.16	U	0.16	1.00	ug/L
108-20-3	Diisopropyl ether	0.16	U	0.16	1.00	ug/L
123-91-1	1,4-Dioxane	6.50	U	6.50	100	ug/L
80-62-6	Methyl methacrylate	0.32	U	0.32	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.1		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	45.7		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8	48.6		86 - 113	97%	SPK: 50

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WP	SDG No.:	P3845
Lab Sample ID:	P3845-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083755.D	1		09/10/24 16:31	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	44.6		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	151000	8.224			
540-36-3	1,4-Difluorobenzene	262000	9.1			
3114-55-4	Chlorobenzene-d5	227000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	109000	13.788			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083755.D
Acq On : 10 Sep 2024 16:31
Operator : JC\MD
Sample : P3845-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

Quant Time: Sep 11 03:15:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

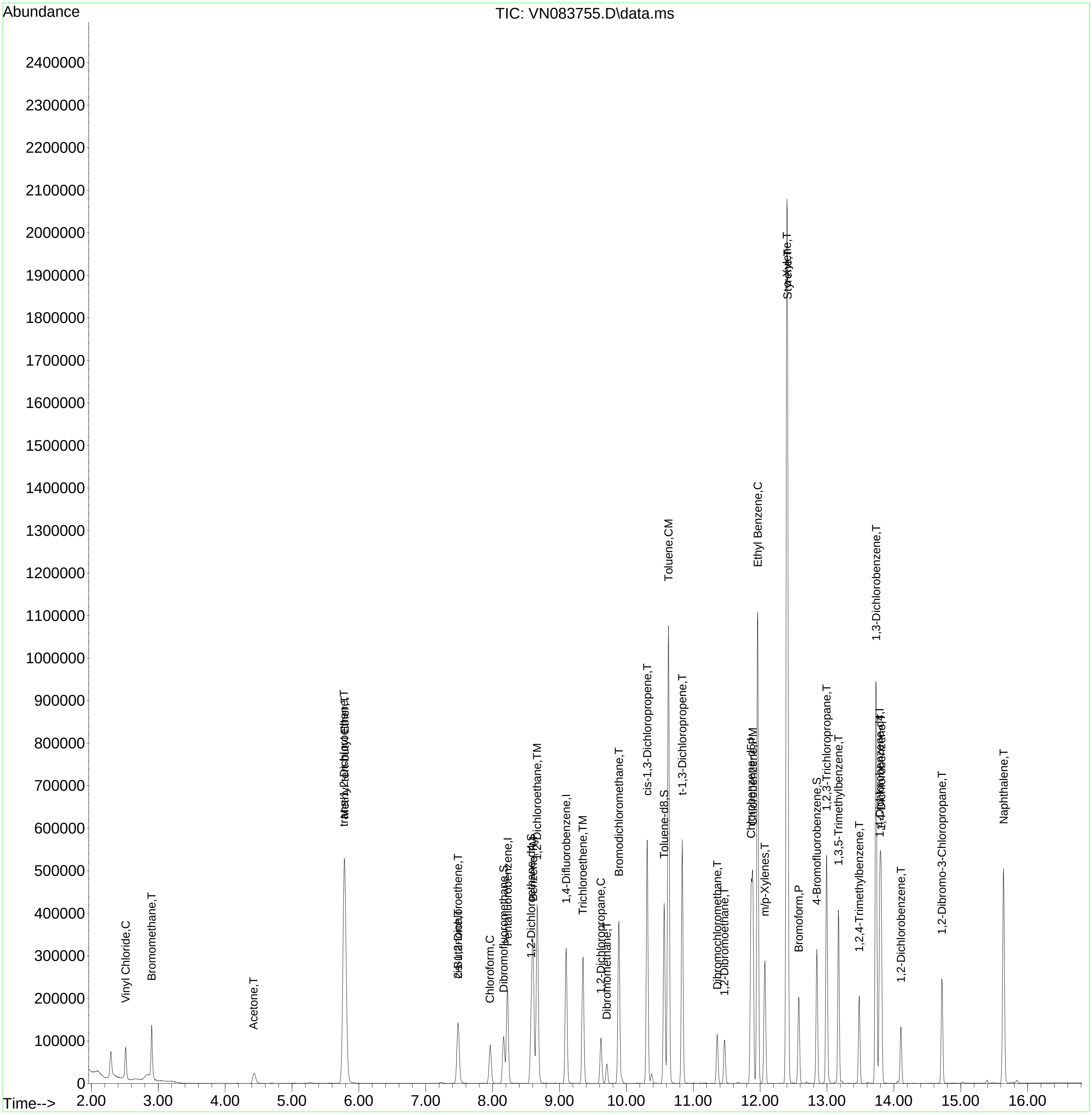
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.224	168	150997	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	261805	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	226980	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	109081	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.577	65	109513	48.099 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.200%		
35) Dibromofluoromethane	8.165	113	76624	45.717 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.440%		
50) Toluene-d8	10.565	98	281694	48.617 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.240%		
62) 4-Bromofluorobenzene	12.847	95	106649	44.613 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.220%		
Target Compounds					Qvalue
4) Vinyl Chloride	2.512	62	66608	34.654 ug/l	93
5) Bromomethane	2.901	94	52315	47.405 ug/l	96
16) Acetone	4.424	43	37510	41.097 ug/l	92
19) Methyl tert-butyl Ether	5.789	73	438713	74.233 ug/l	100
21) trans-1,2-Dichloroethene	5.777	96	178621	102.053 ug/l	92
25) 2-Butanone	7.483	43	108831	90.721 ug/l	96
27) cis-1,2-Dichloroethene	7.483	96	43853	21.106 ug/l	90
30) Chloroform	7.959	83	83841	22.882 ug/l	92
40) Benzene	8.606	78	313354	41.269 ug/l	99
42) 1,2-Dichloroethane	8.665	62	398133	140.325 ug/l	100
44) Trichloroethene	9.347	130	101604	57.784 ug/l	97
45) 1,2-Dichloropropane	9.618	63	38320	20.881 ug/l	93
46) Dibromomethane	9.706	93	19897	15.479 ug/l	98
47) Bromodichloromethane	9.888	83	259885	93.420 ug/l	99
52) Toluene	10.630	92	466878	100.525 ug/l	98
53) t-1,3-Dichloropropene	10.835	75	300615	106.609 ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	318425	107.504 ug/l	99
60) Dibromochloromethane	11.359	129	60591	31.225 ug/l	99
61) 1,2-Dibromoethane	11.465	107	70615	40.836 ug/l	99
65) Chlorobenzene	11.888	112	236345	46.850 ug/l	99
67) Ethyl Benzene	11.965	91	813446	90.770 ug/l	100
68) m/p-Xylenes	12.071	106	90078	27.074 ug/l	98
69) o-Xylene	12.400	106	371425	115.317 ug/l	98
70) Styrene	12.412	104	572589	108.322 ug/l	98
71) Bromoform	12.576	173	92838	78.777 ug/l #	99
76) 1,2,3-Trichloropropane	12.994	75	218806	101.926 ug/l #	1
80) 1,3,5-Trimethylbenzene	13.171	105	220170	30.944 ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	113196	15.838 ug/l	100
87) 1,3-Dichlorobenzene	13.735	146	374737	97.746 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	156135	40.221 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	51710	13.976 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	65548	132.611 ug/l	98
95) Naphthalene	15.641	128	451724	74.782 ug/l	99

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

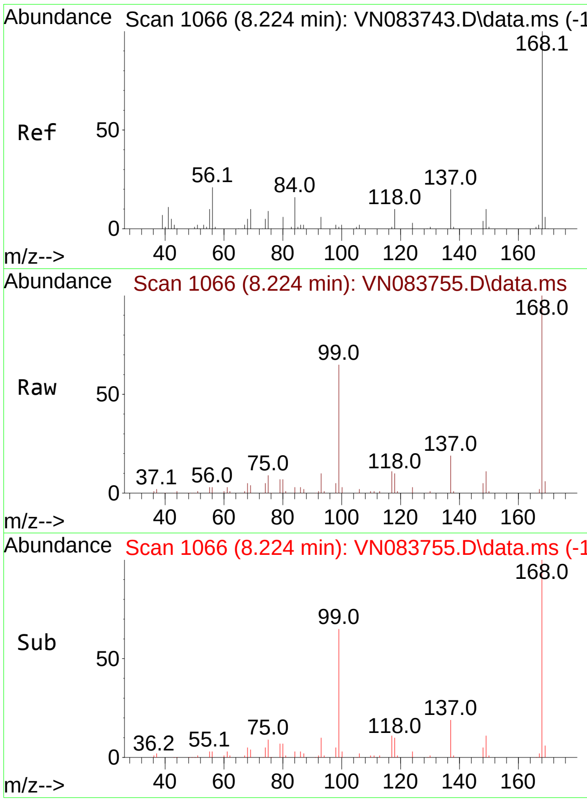
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083755.D
Acq On : 10 Sep 2024 16:31
Operator : JC\MD
Sample : P3845-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

Quant Time: Sep 11 03:15:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

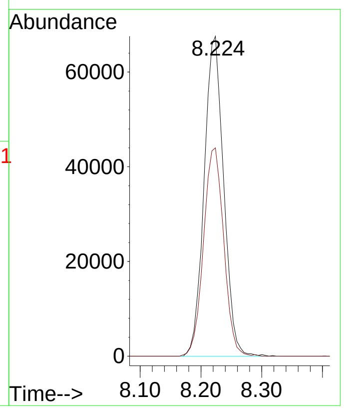


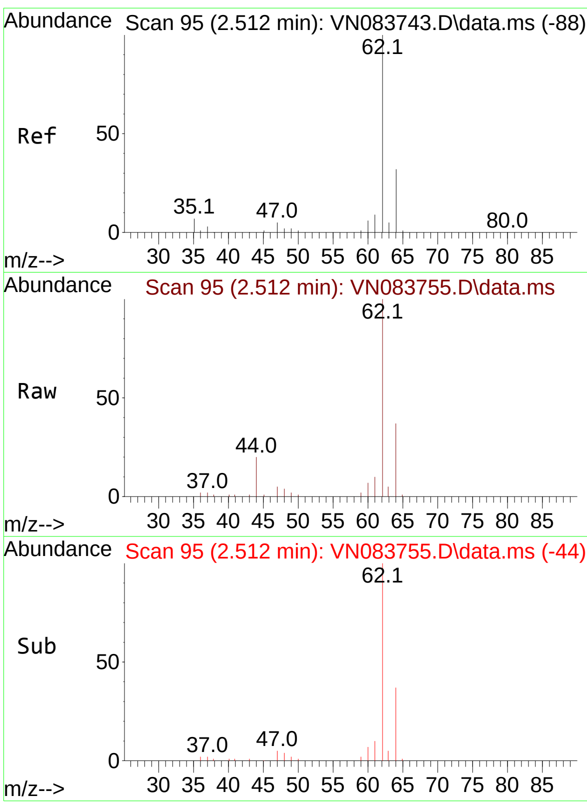
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP




```
#1
Pentafluorobenzene
Concen:   50.000 ug/l
RT:   8.224 min   Scan# 1
Delta R.T.   -0.000 min
Lab File:   VN083755.D
Acq: 10 Sep 2024   16:31

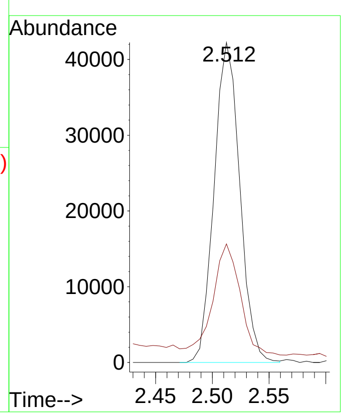
Tgt Ion:168 Resp:   150997
Ion   Ratio   Lower   Upper
168   100
 99    65.1    54.2    81.2
```



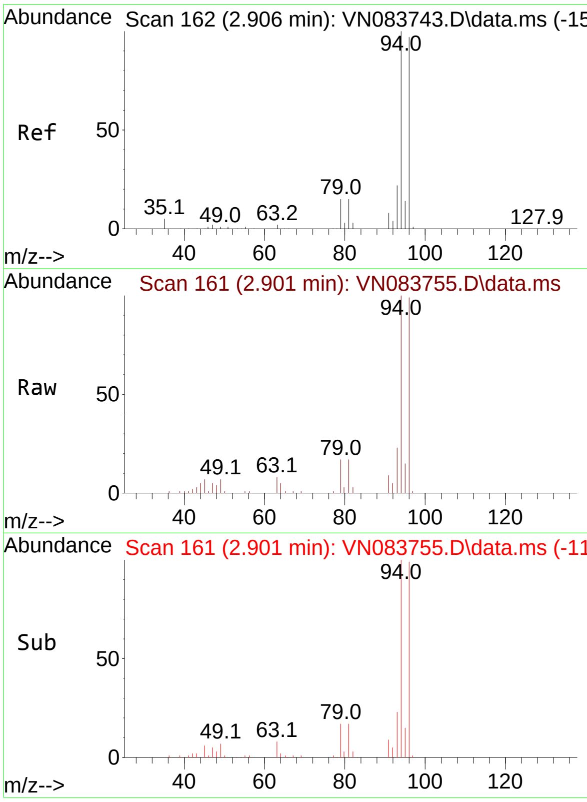



```
#4
Vinyl Chloride
Concen:   34.654 ug/l
RT:   2.512 min   Scan# 95
Delta R.T.   0.000 min
Lab File:   VN083755.D
Acq: 10 Sep 2024   16:31

Tgt Ion: 62 Resp:    66608
Ion   Ratio   Lower   Upper
 62   100
 64    34.7    24.7    37.1
```



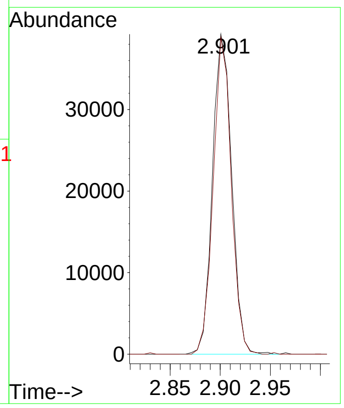
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

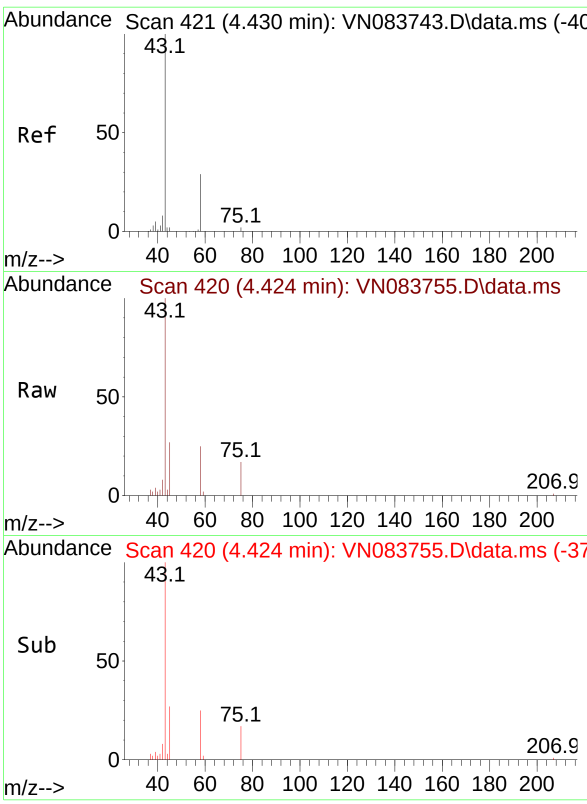


#5
Bromomethane
Concen: 47.405 ug/l
RT: 2.901 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 94 Resp: 52315

Ion	Ratio	Lower	Upper
94	100		
96	99.0	76.0	114.0

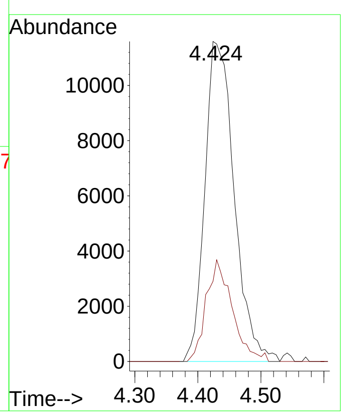




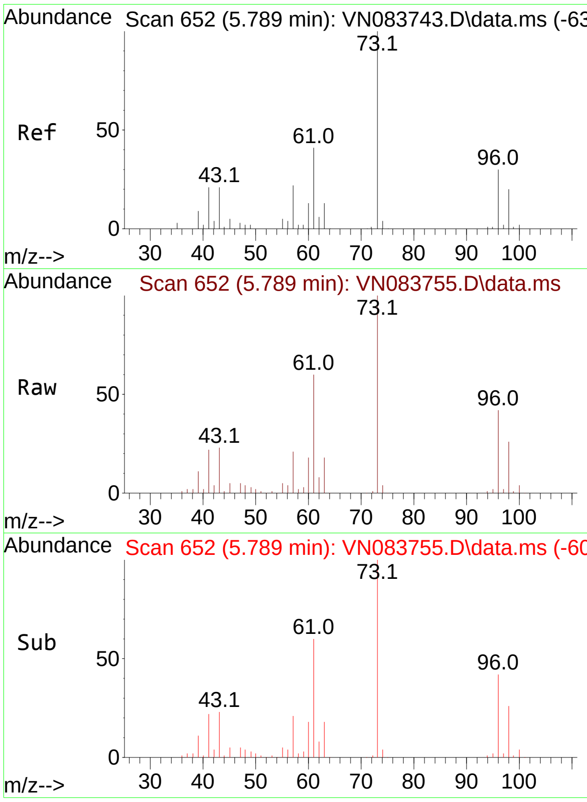
#16
Acetone
Concen: 41.097 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 43 Resp: 37510

Ion	Ratio	Lower	Upper
43	100		
58	25.0	23.7	35.5



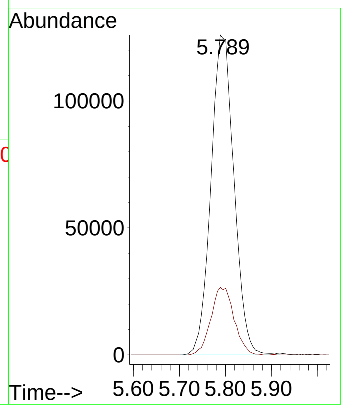
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

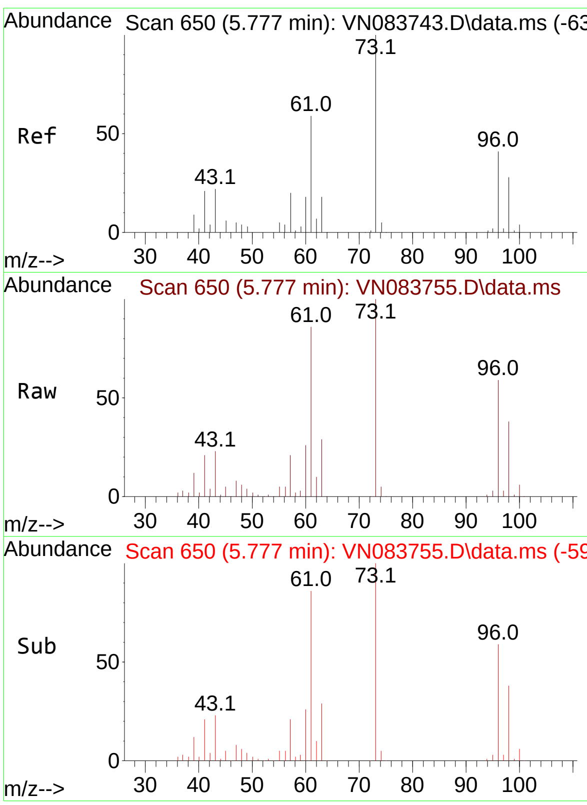


#19
Methyl tert-butyl Ether
Concen: 74.233 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 73 Resp: 438713

Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.0	25.6

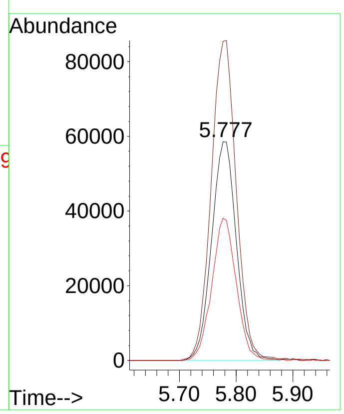




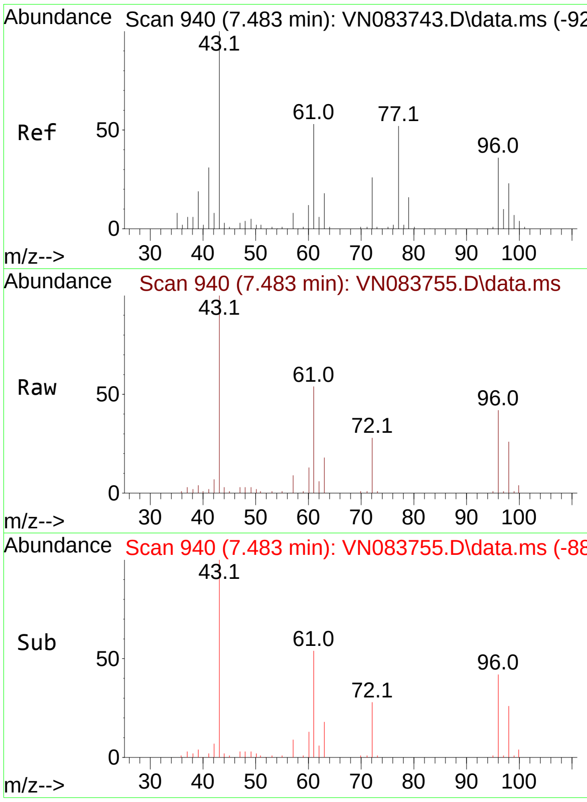
#21
trans-1,2-Dichloroethene
Concen: 102.053 ug/l
RT: 5.777 min Scan# 650
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 96 Resp: 178621

Ion	Ratio	Lower	Upper
96	100		
61	145.9	106.0	159.0
98	65.0	52.2	78.2

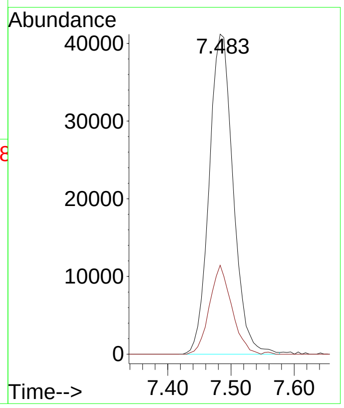


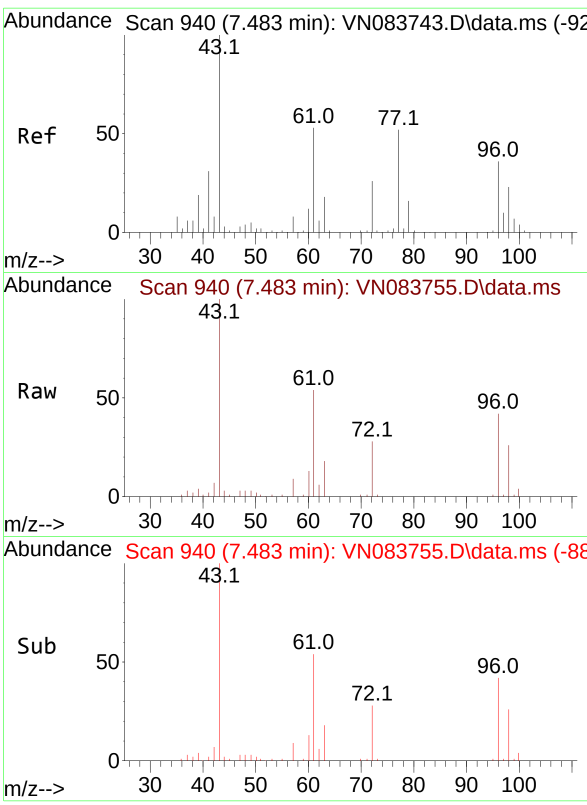
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP




```
#25
2-Butanone
Concen:   90.721 ug/l
RT:   7.483 min  Scan# 94
Delta R.T.  0.000 min
Lab File:   VN083755.D
Acq: 10 Sep 2024  16:31

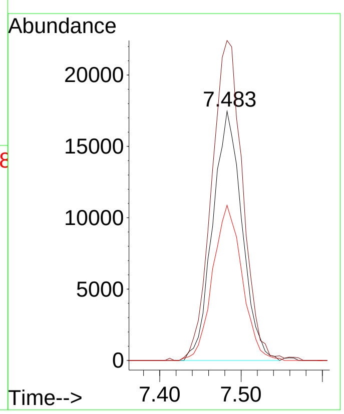
Tgt Ion: 43 Resp:  108831
Ion  Ratio  Lower  Upper
 43  100
 72   27.8   20.8   31.2
```



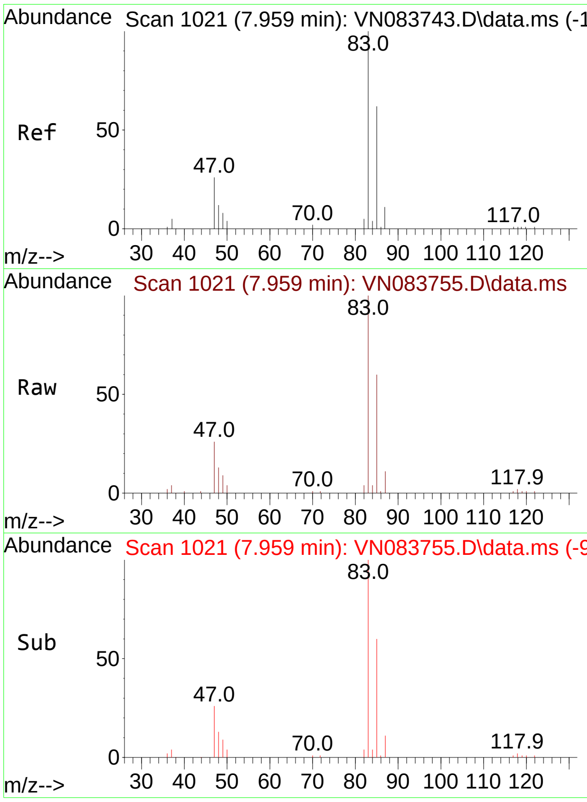



```
#27
cis-1,2-Dichloroethene
Concen:   21.106 ug/l
RT:   7.483 min  Scan# 940
Delta R.T.  0.000 min
Lab File:   VN083755.D
Acq: 10 Sep 2024  16:31

Tgt Ion: 96 Resp:   43853
Ion  Ratio  Lower  Upper
 96  100
 61  136.0    0.0  306.2
 98   62.5    0.0  128.6
```

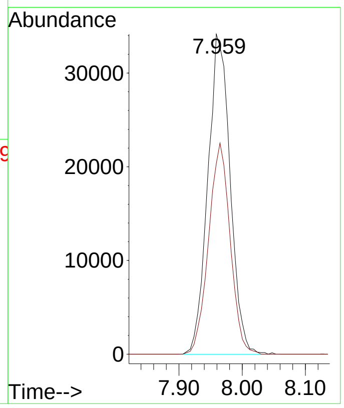


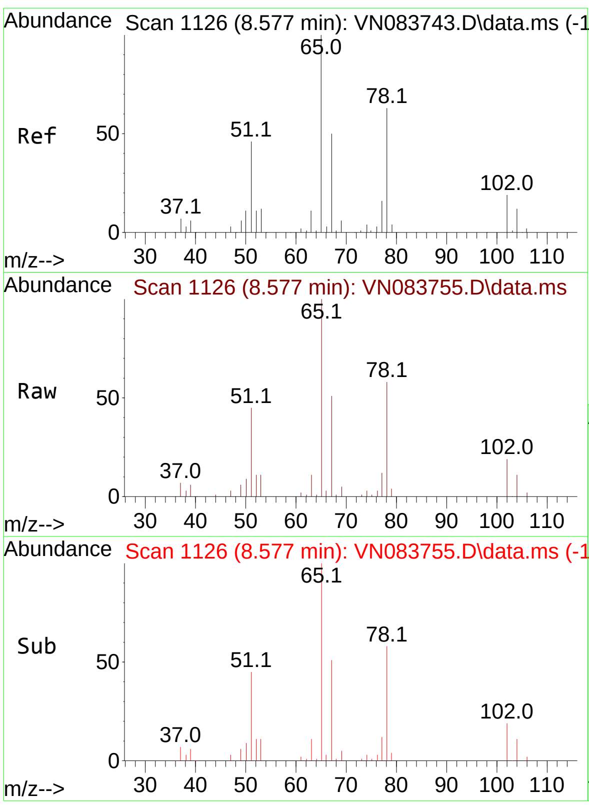
Instrument : MSVOA_N
ClientSampleId : PT-VOA-WP




```
#30
Chloroform
Concen:    22.882 ug/l
RT:    7.959 min   Scan# 10
Delta R.T.   0.000 min
Lab File:    VN083755.D
Acq: 10 Sep 2024   16:31

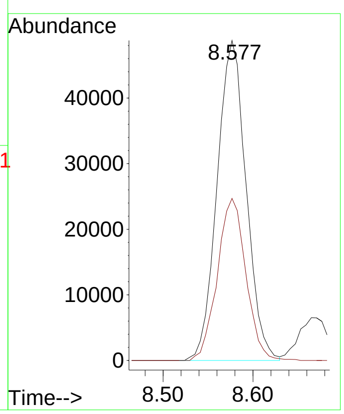
Tgt Ion: 83 Resp:    83841
Ion   Ratio   Lower   Upper
 83   100
 85    59.6    52.8    79.2
```



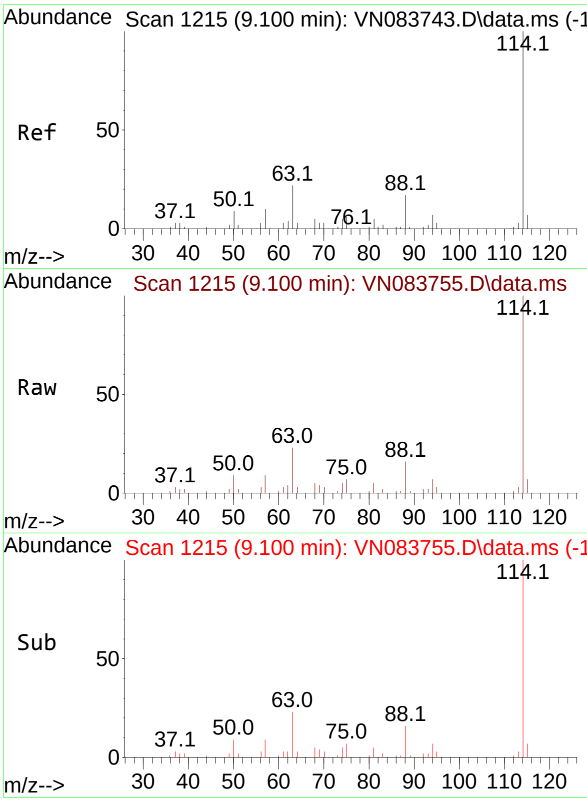



```
#33
1,2-Dichloroethane-d4
Concen:    48.099 ug/l
RT:    8.577 min   Scan# 1126
Delta R.T.   0.000 min
Lab File:    VN083755.D
Acq: 10 Sep 2024   16:31

Tgt Ion: 65 Resp:   109513
Ion   Ratio   Lower   Upper
 65   100
 67    49.8     0.0   100.8
```



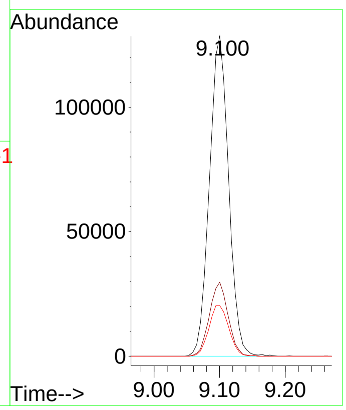
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

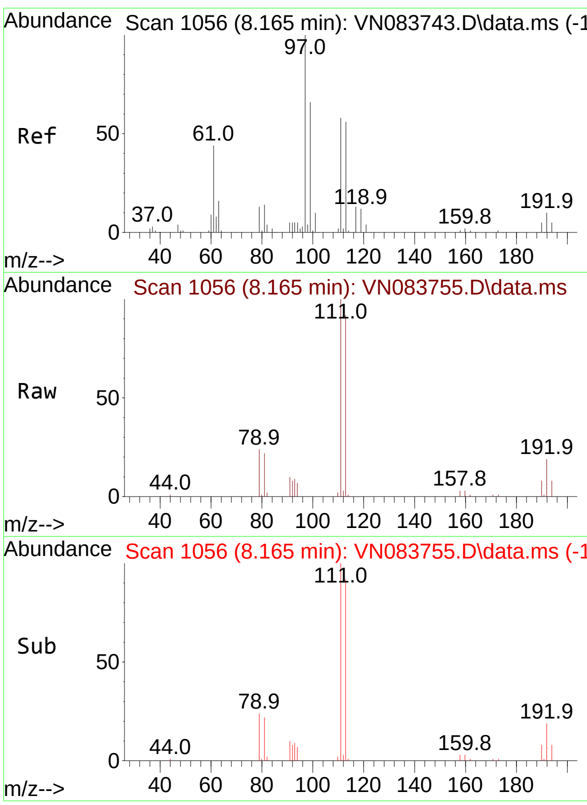


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:114 Resp: 261805

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	43.4
88	15.8	0.0	32.6

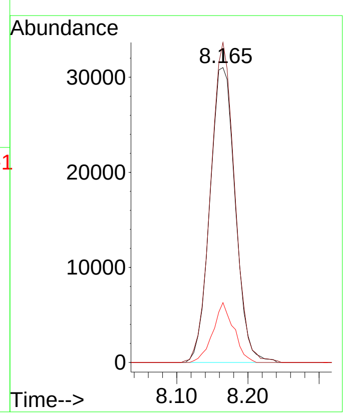




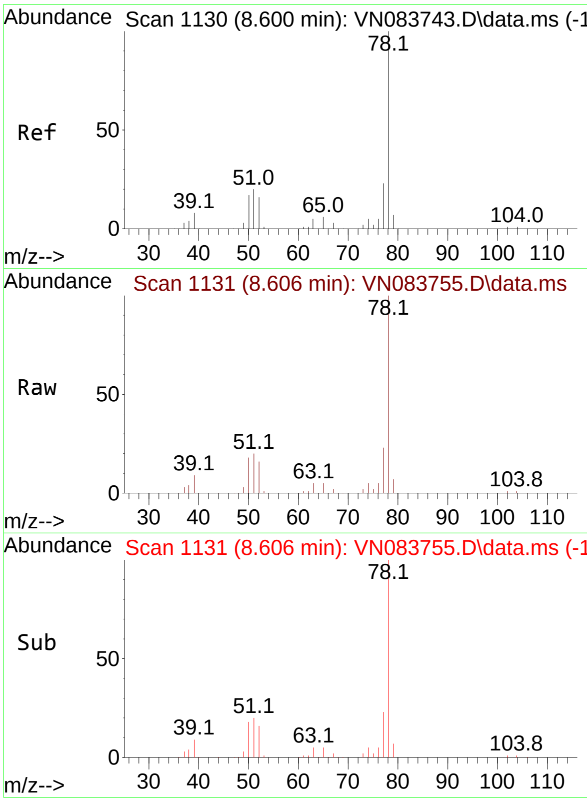
#35
Dibromofluoromethane
Concen: 45.717 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:113 Resp: 76624

Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.6	124.0
192	16.8	14.3	21.5

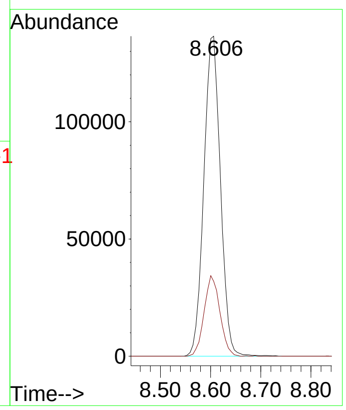


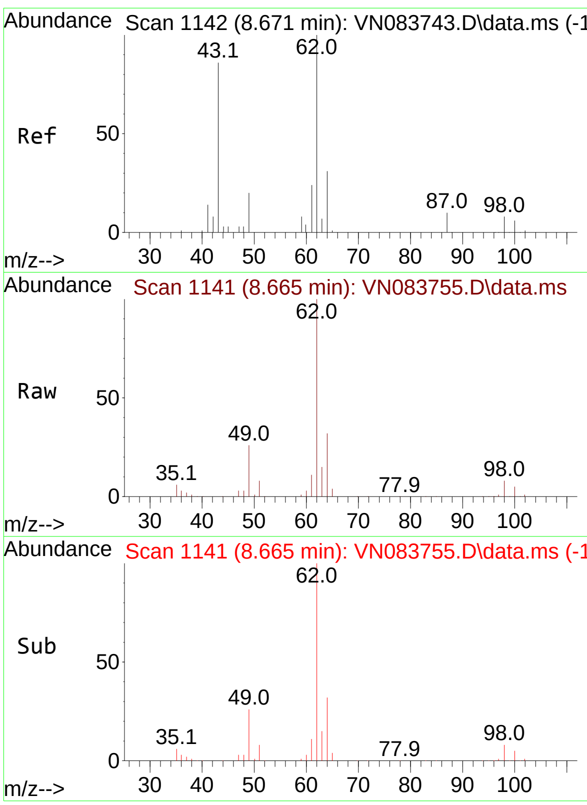
Instrument : MSVOA_N
ClientSampleId : PT-VOA-WP




```
#40
Benzene
Concen:   41.269 ug/l
RT:   8.606 min  Scan# 1
Delta R.T.  0.006 min
Lab File:   VN083755.D
Acq: 10 Sep 2024  16:31

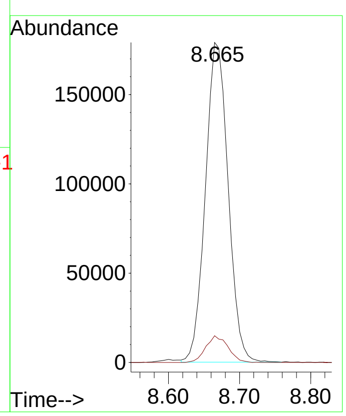
Tgt Ion: 78 Resp:  313354
Ion  Ratio  Lower  Upper
 78  100
 77   23.4   19.0   28.6
```



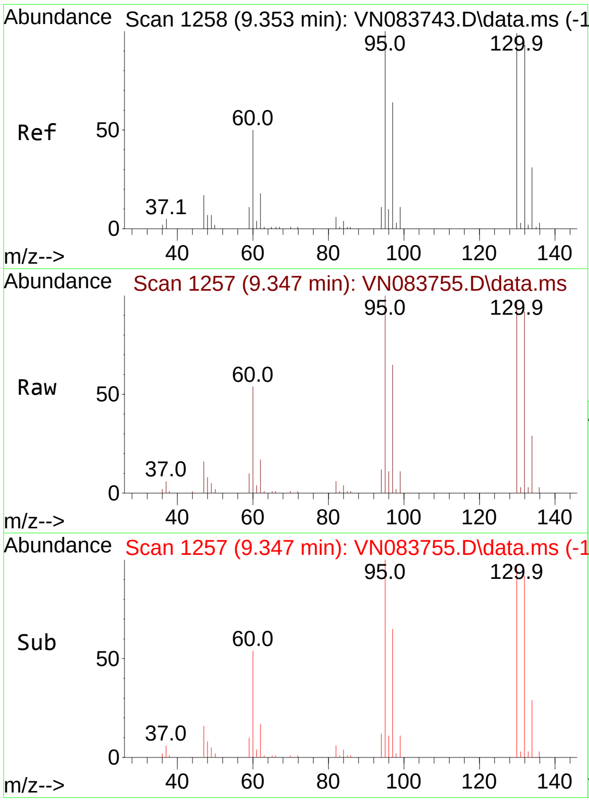



```
#42
1,2-Dichloroethane
Concen:  140.325 ug/l
RT:   8.665 min  Scan# 1141
Delta R.T.  -0.006 min
Lab File:   VN083755.D
Acq: 10 Sep 2024  16:31

Tgt Ion: 62 Resp:  398133
Ion  Ratio  Lower  Upper
 62  100
 98    8.2    0.0   16.6
```



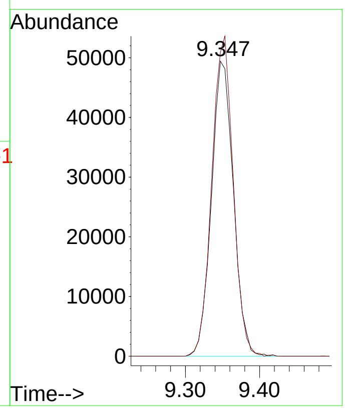
Instrument : MSVOA_N
ClientSampleId : PT-VOA-WP

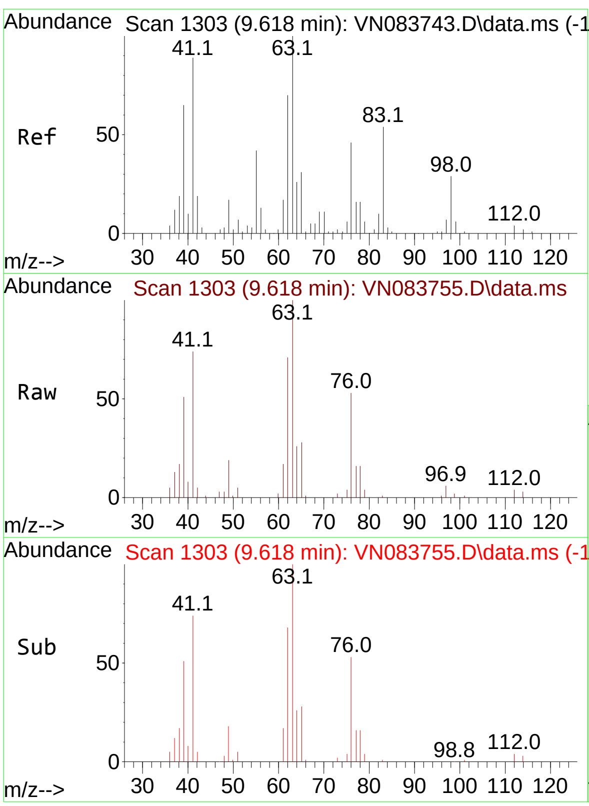


#44
Trichloroethene
Concen: 57.784 ug/l
RT: 9.347 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:130 Resp: 101604

Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	200.4

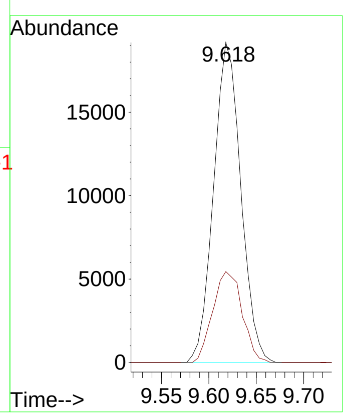




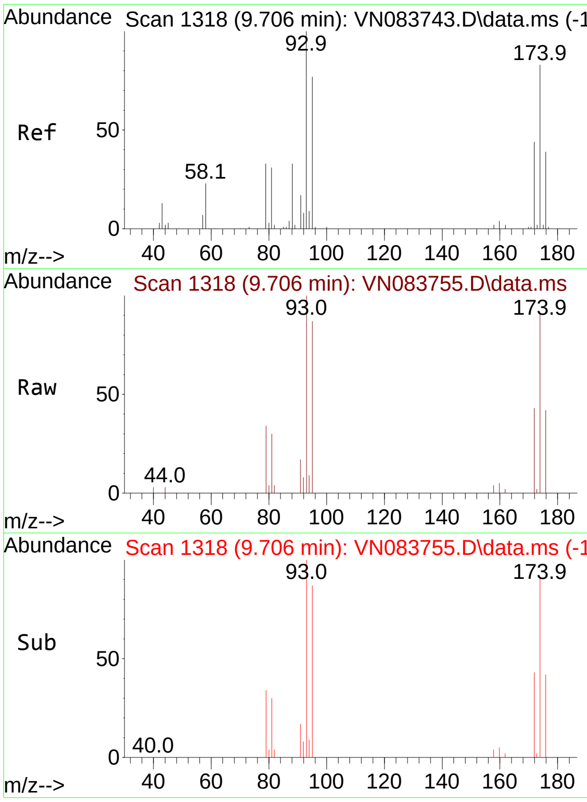
#45
1,2-Dichloropropane
Concen: 20.881 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 63 Resp: 38320

Ion	Ratio	Lower	Upper
63	100		
65	28.4	25.9	38.9



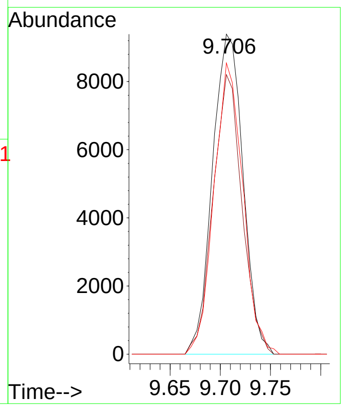
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

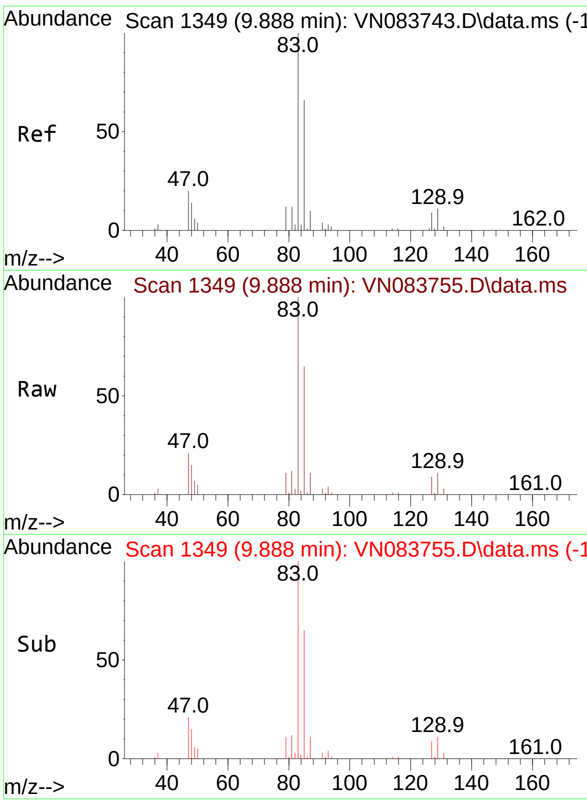


#46
Dibromomethane
Concen: 15.479 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 93 Resp: 19897

Ion	Ratio	Lower	Upper
93	100		
95	82.6	65.3	97.9
174	85.9	71.0	106.4

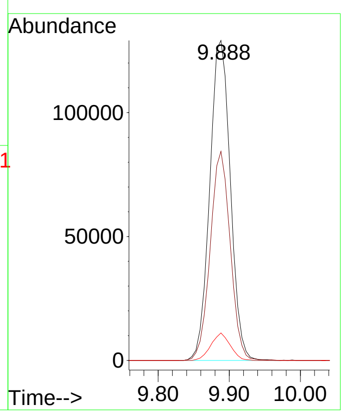




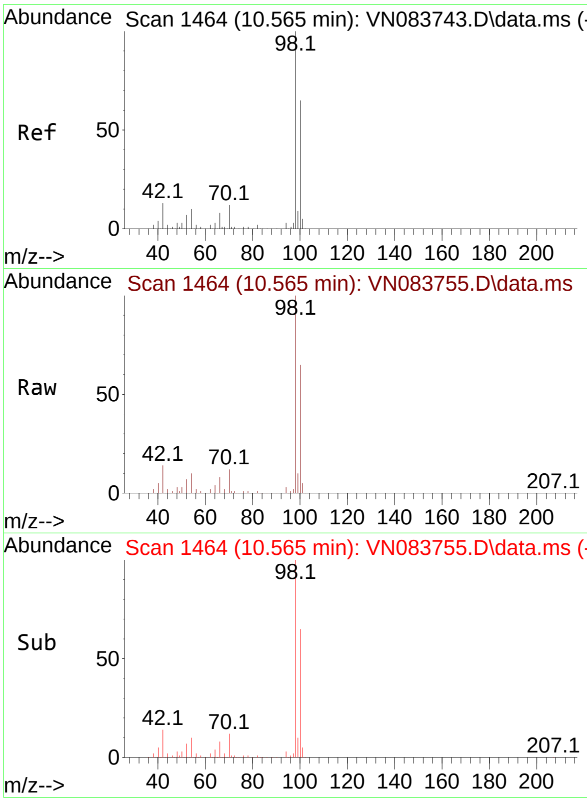
#47
Bromodichloromethane
Concen: 93.420 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 83 Resp: 259885

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.8	77.8
127	8.6	6.6	9.8

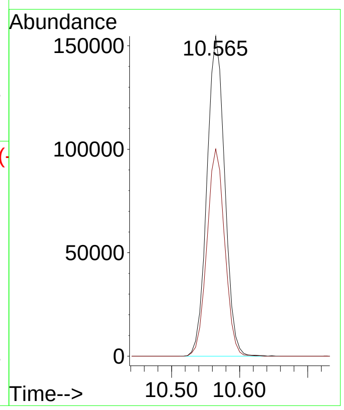


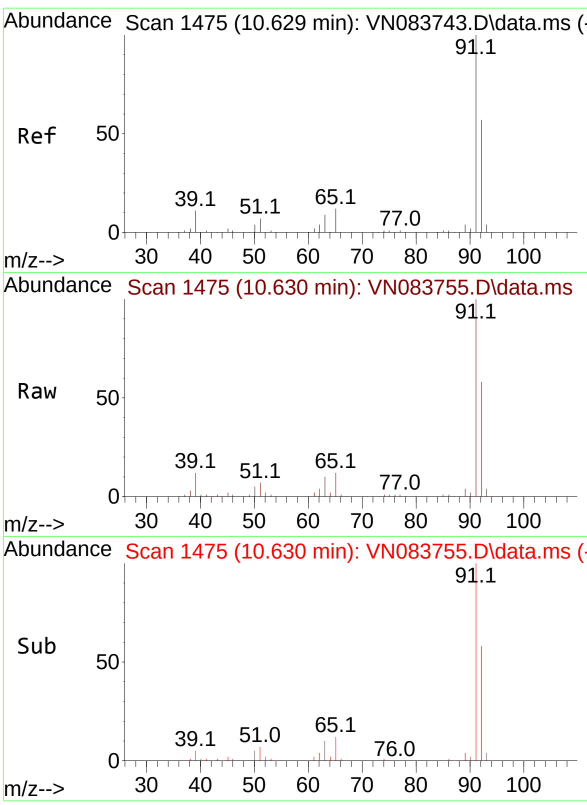
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP




```
#50
Toluene-d8
Concen:   48.617 ug/l
RT:  10.565 min  Scan# 14
Delta R.T.  0.000 min
Lab File:   VN083755.D
Acq: 10 Sep 2024  16:31

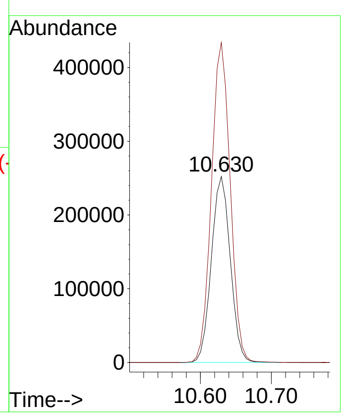
Tgt Ion: 98 Resp:  281694
Ion  Ratio  Lower  Upper
 98  100
100   64.7   52.0   78.0
```



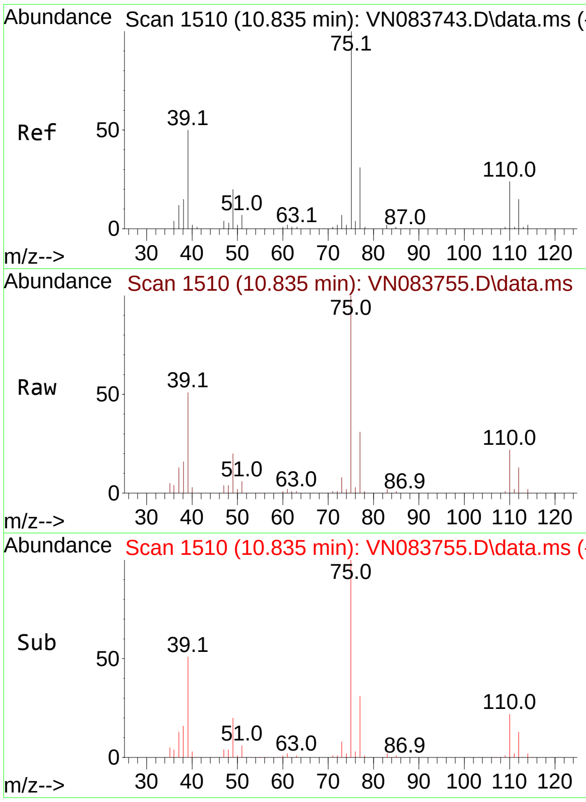



```
#52
Toluene
Concen:  100.525 ug/l
RT:  10.630 min  Scan# 1475
Delta R.T.  0.000 min
Lab File:   VN083755.D
Acq: 10 Sep 2024  16:31

Tgt Ion: 92 Resp:  466878
Ion  Ratio  Lower  Upper
 92  100
 91  170.8  134.7  202.1
```

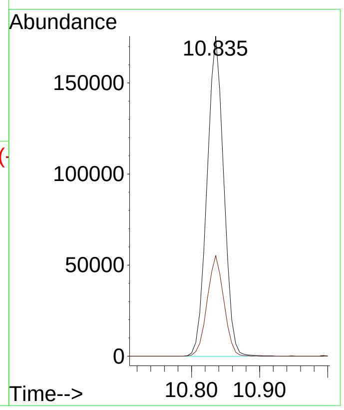


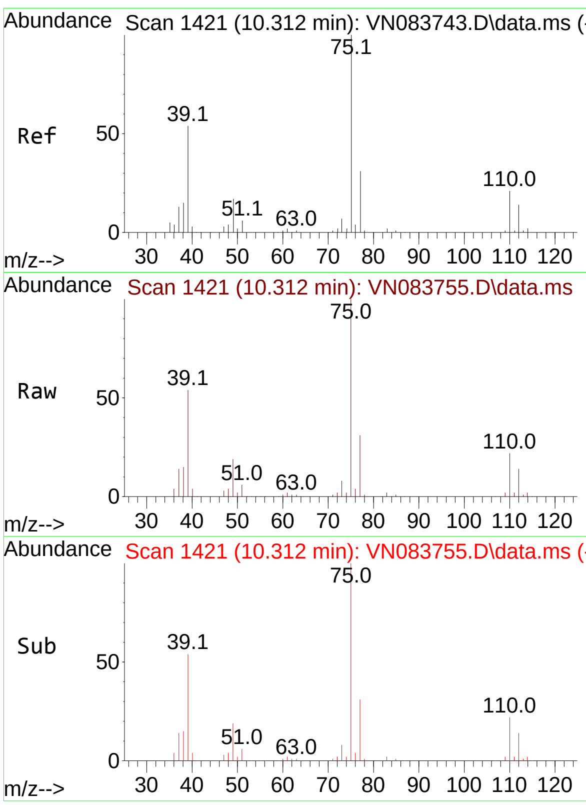
Instrument : MSVOA_N
ClientSampleId : PT-VOA-WP




```
#53
t-1,3-Dichloropropene
Concen:  106.609 ug/l
RT:  10.835 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083755.D
Acq: 10 Sep 2024  16:31

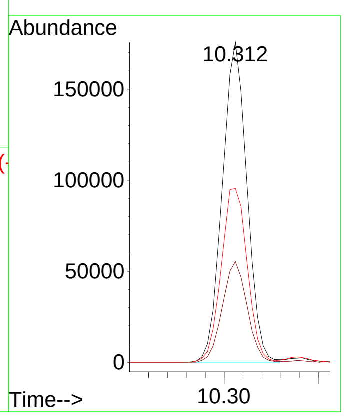
Tgt Ion: 75 Resp:  300615
Ion  Ratio  Lower  Upper
 75  100
 77   31.4   25.8   38.6
```






```
#54
cis-1,3-Dichloropropene
Concen:  107.504 ug/l
RT:  10.312 min  Scan# 1421
Delta R.T.  0.000 min
Lab File:   VN083755.D
Acq: 10 Sep 2024  16:31

Tgt Ion: 75 Resp:  318425
Ion  Ratio  Lower  Upper
 75  100
 77   31.5   25.0   37.6
 39   54.3   42.6   64.0
```



Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

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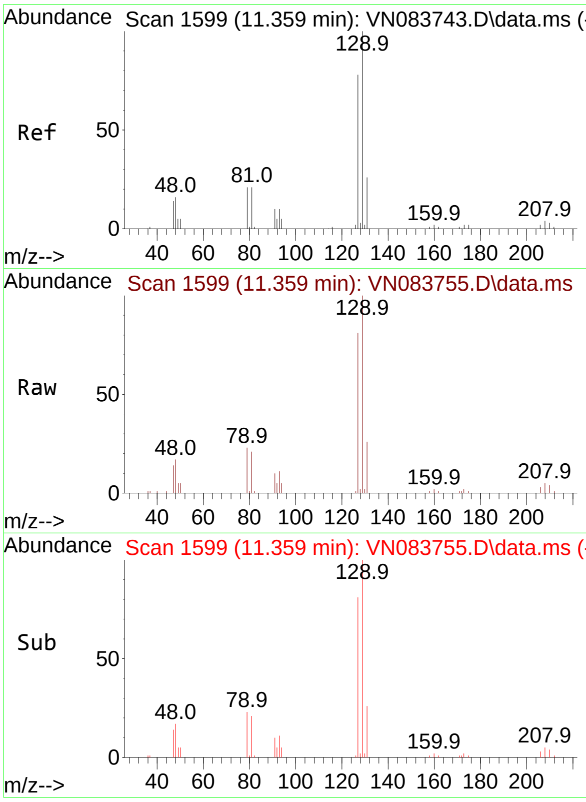
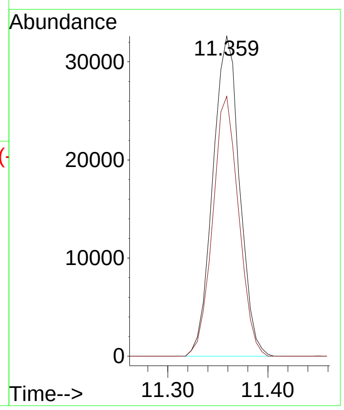
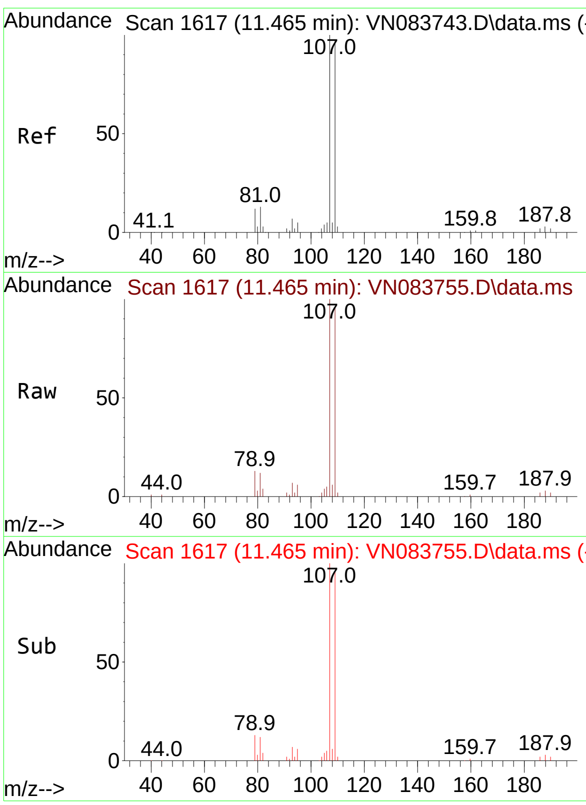


#60
Dibromochloromethane
Concen: 31.225 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:129 Resp: 60591

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.0	116.9

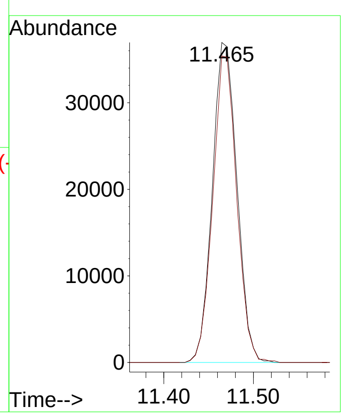




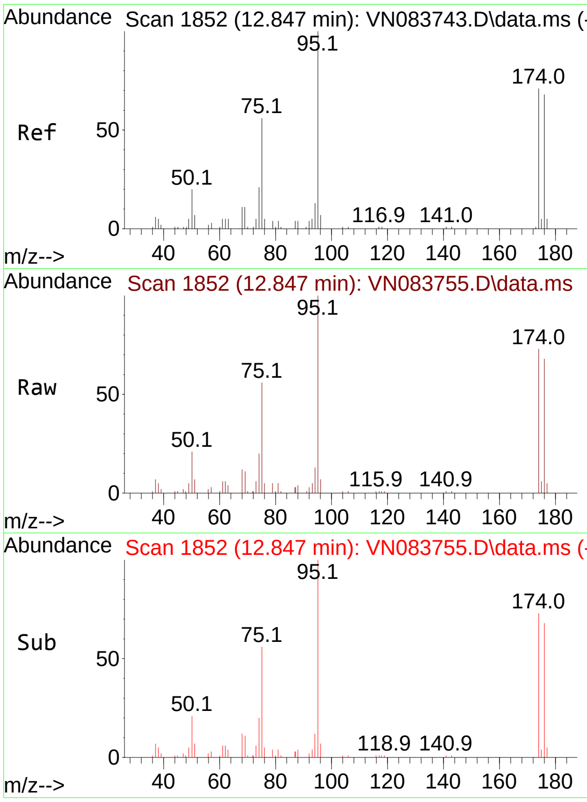
#61
1,2-Dibromoethane
Concen: 40.836 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:107 Resp: 70615

Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.6	113.4



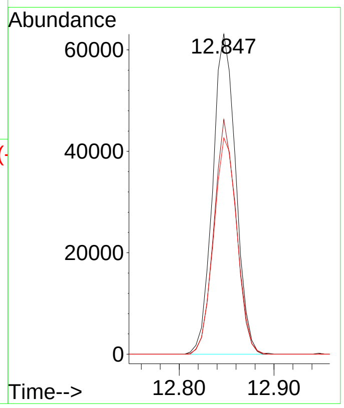
Instrument : MSVOA_N
ClientSampleId : PT-VOA-WP

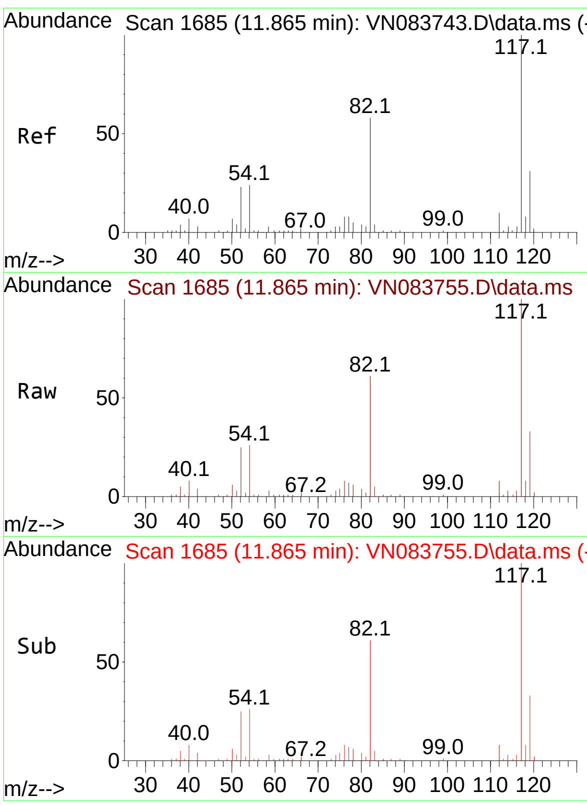


#62
4-Bromofluorobenzene
Concen: 44.613 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 95 Resp: 106649

Ion	Ratio	Lower	Upper
95	100		
174	70.6	0.0	139.8
176	68.9	0.0	131.4

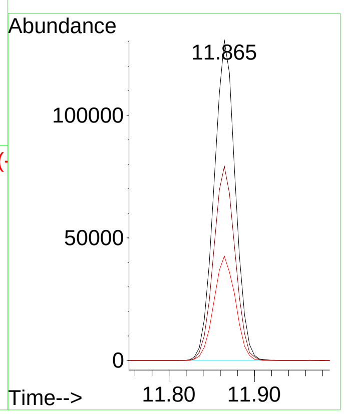




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:117 Resp: 226980

Ion	Ratio	Lower	Upper
117	100		
82	60.7	47.4	71.0
119	32.6	26.3	39.5



Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

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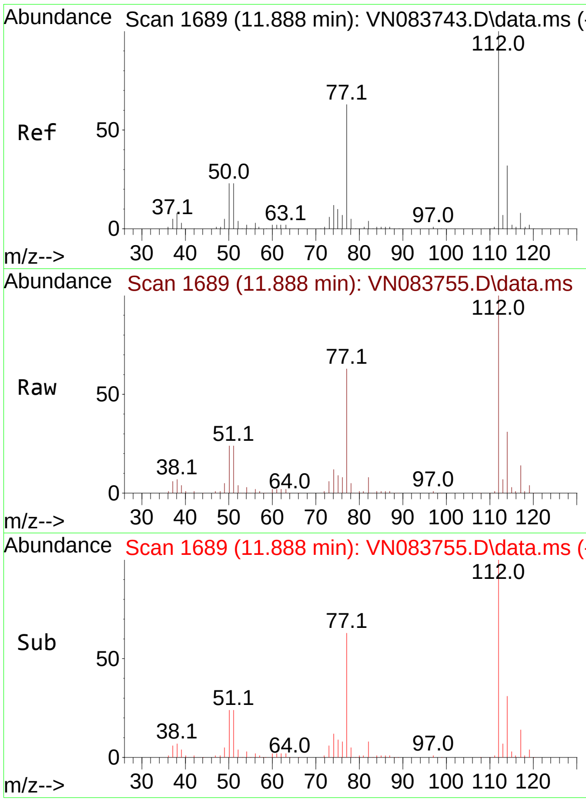
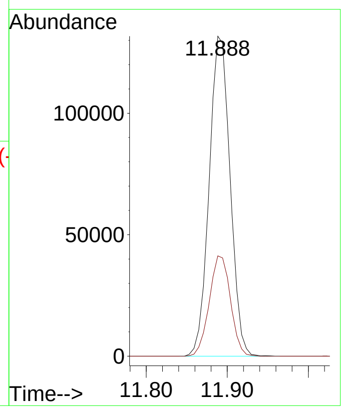
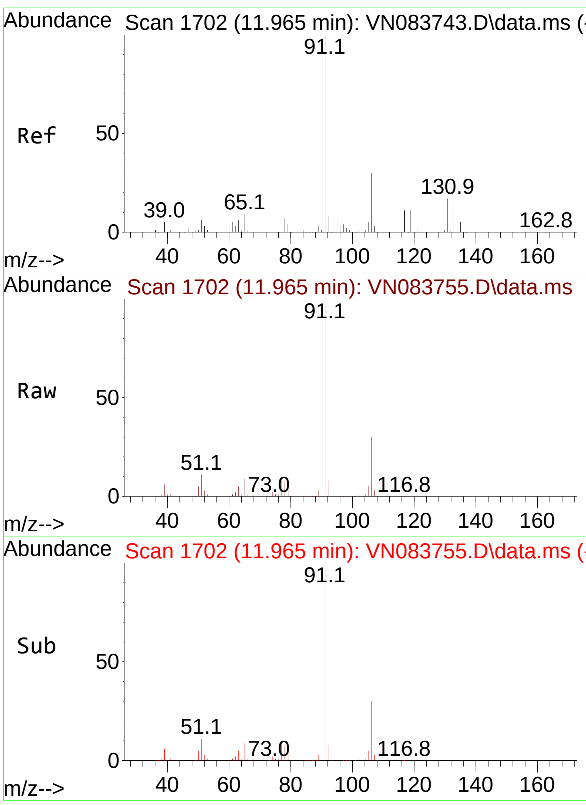


#65
Chlorobenzene
Concen: 46.850 ug/l
RT: 11.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:112 Resp: 236345

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.7	38.5

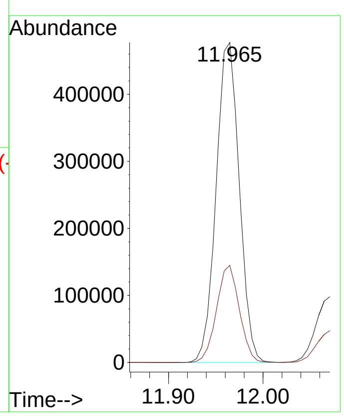




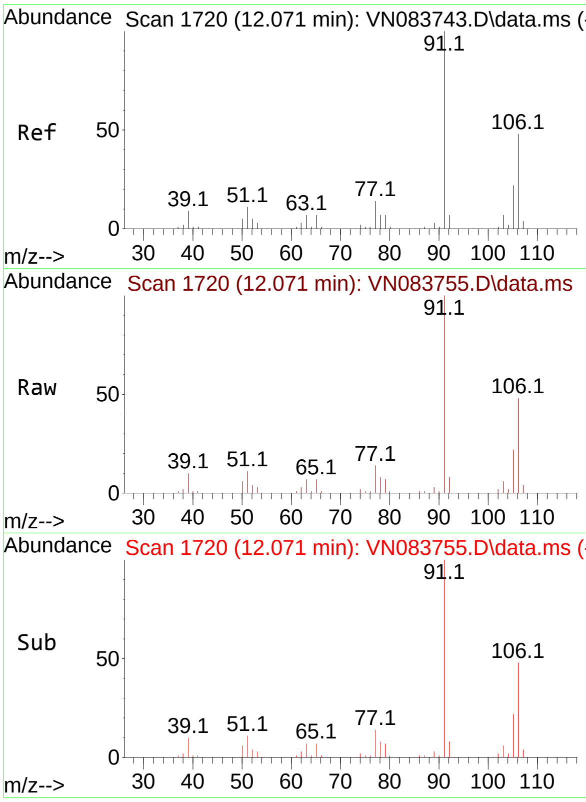
#67
Ethyl Benzene
Concen: 90.770 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 91 Resp: 813446

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5



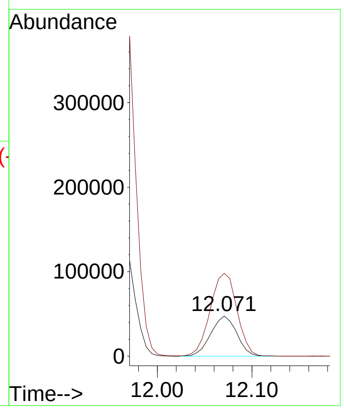
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

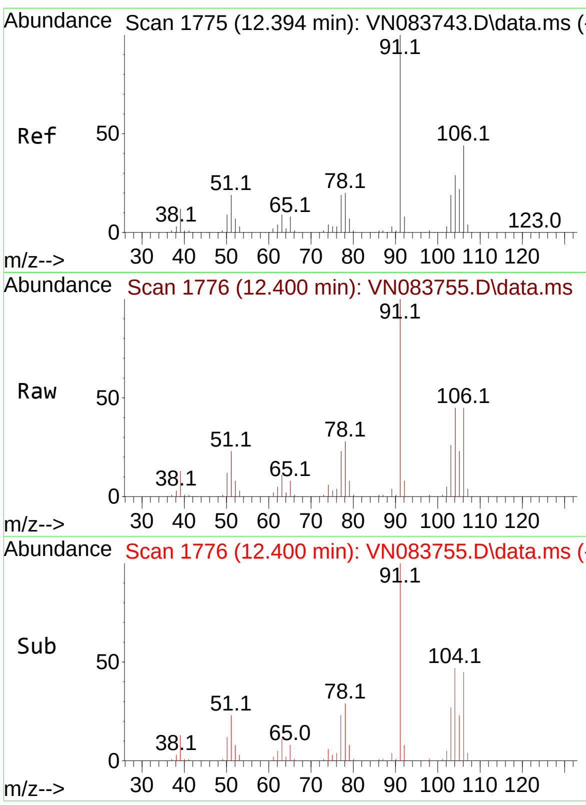


#68
m/p-Xylenes
Concen: 27.074 ug/l
RT: 12.071 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:106 Resp: 90078

Ion	Ratio	Lower	Upper
106	100		
91	214.3	169.2	253.8

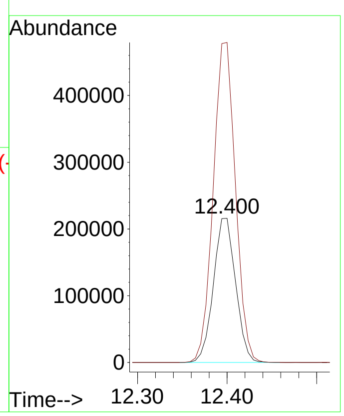




#69
o-Xylene
Concen: 115.317 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:106 Resp: 371425

Ion	Ratio	Lower	Upper
106	100		
91	222.3	112.9	338.6



Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

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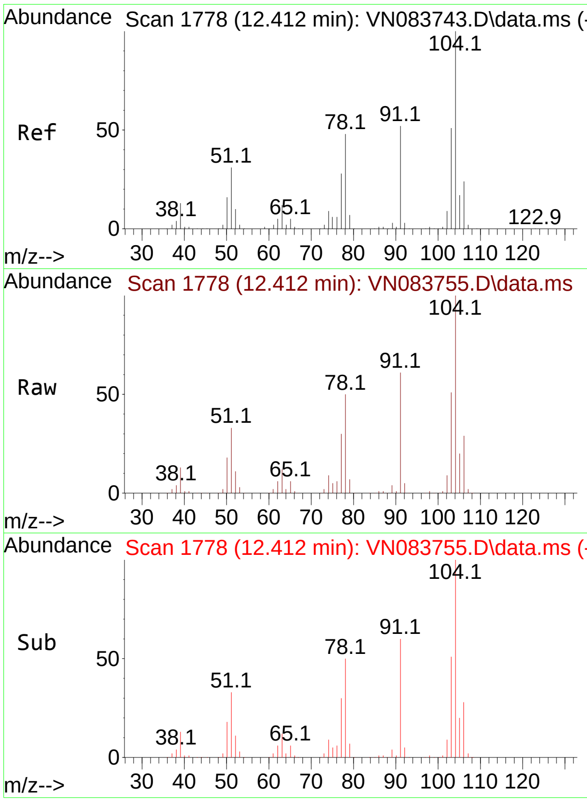
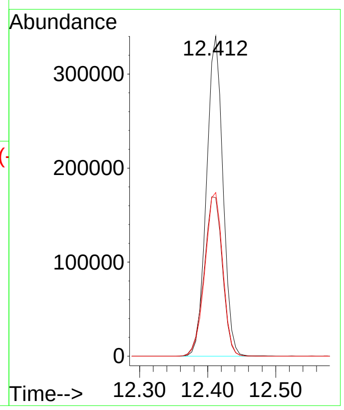
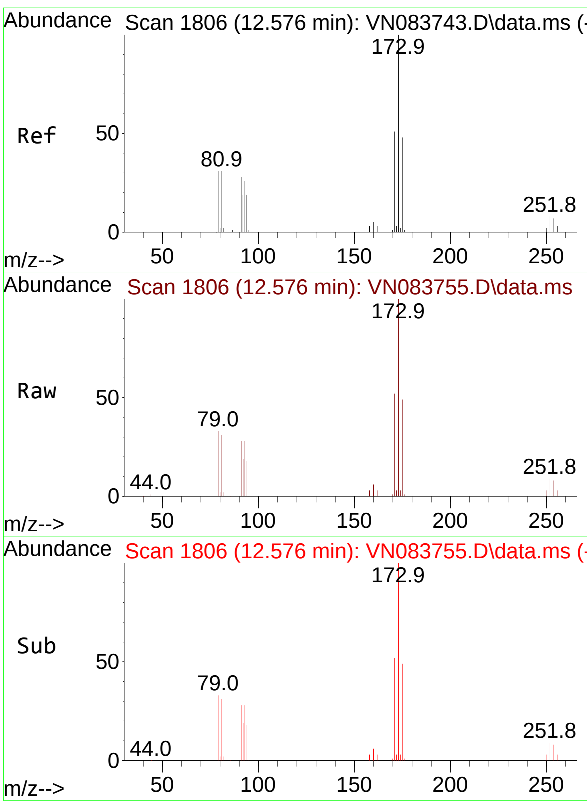


#70
Styrene
Concen: 108.322 ug/l
RT: 12.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:104 Resp: 572589

Ion	Ratio	Lower	Upper
104	100		
78	55.5	43.3	64.9
103	55.4	43.4	65.2

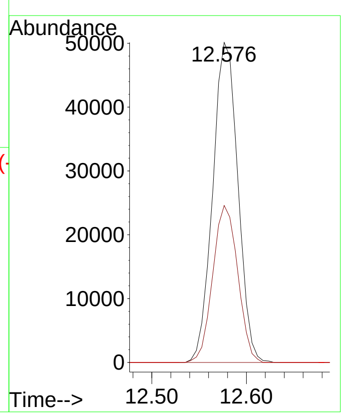


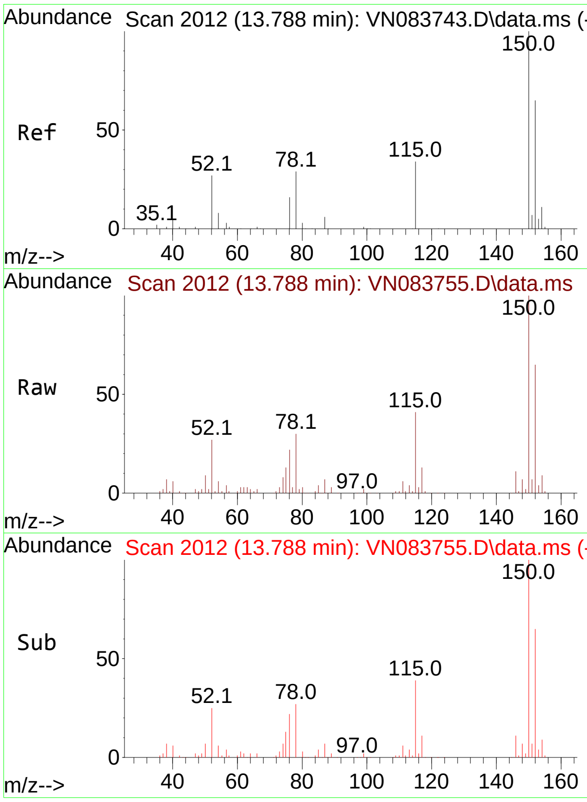


#71
Bromoform
Concen: 78.777 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:173 Resp: 92838

Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.1	72.2
254	0.0	0.0	0.0



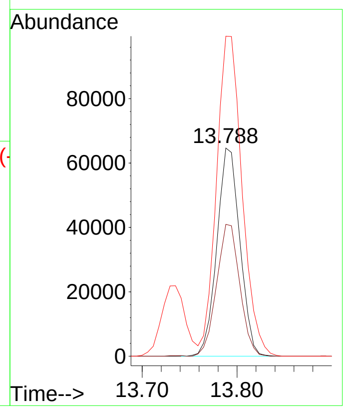


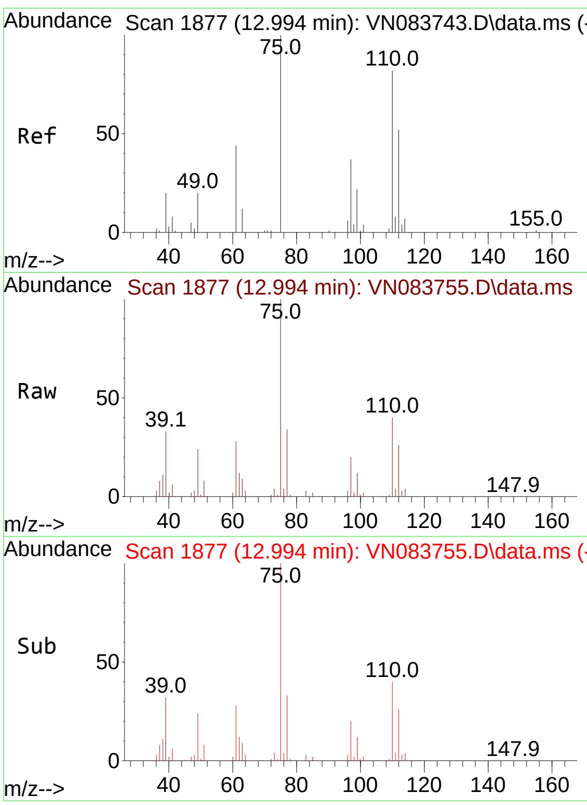
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

Tgt Ion:152 Resp: 109081

Ion	Ratio	Lower	Upper
152	100		
115	63.7	32.2	96.6
150	170.7	0.0	348.6

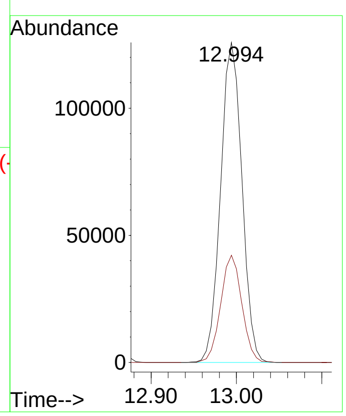




#76
1,2,3-Trichloropropane
Concen: 101.926 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 75 Resp: 218806

Ion	Ratio	Lower	Upper
75	100		
77	33.1	95.2	285.6#



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

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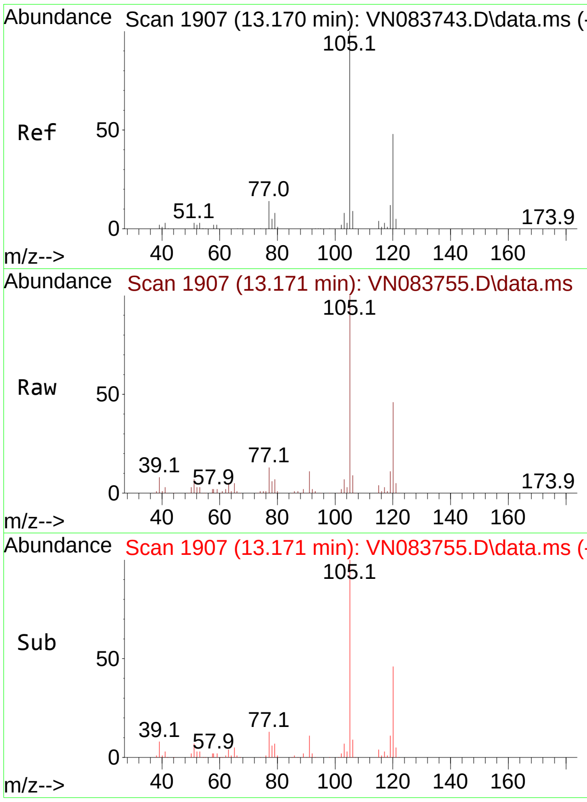
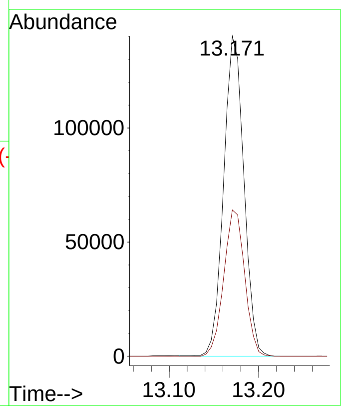
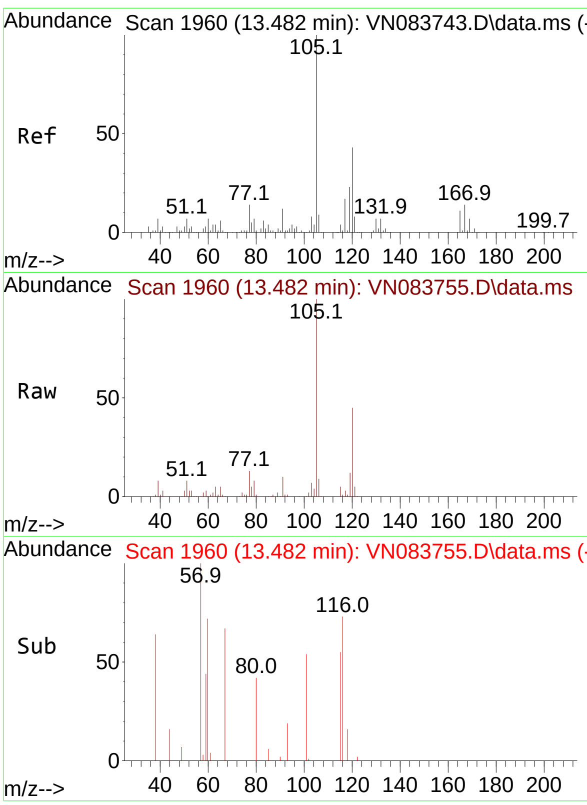



```
#80
1,3,5-Trimethylbenzene
Concen:   30.944 ug/l
RT:  13.171 min   Scan# 19
Delta R.T.   0.000 min
Lab File:    VN083755.D
Acq: 10 Sep 2024  16:31

Tgt Ion:105 Resp:  220170
Ion  Ratio  Lower  Upper
105  100
120   47.1   23.4   70.3
```



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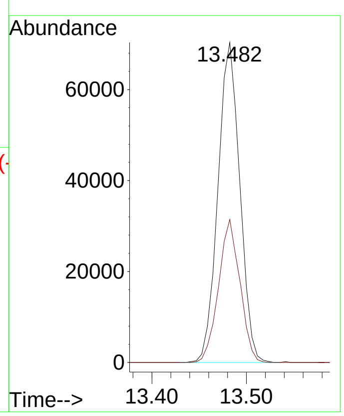
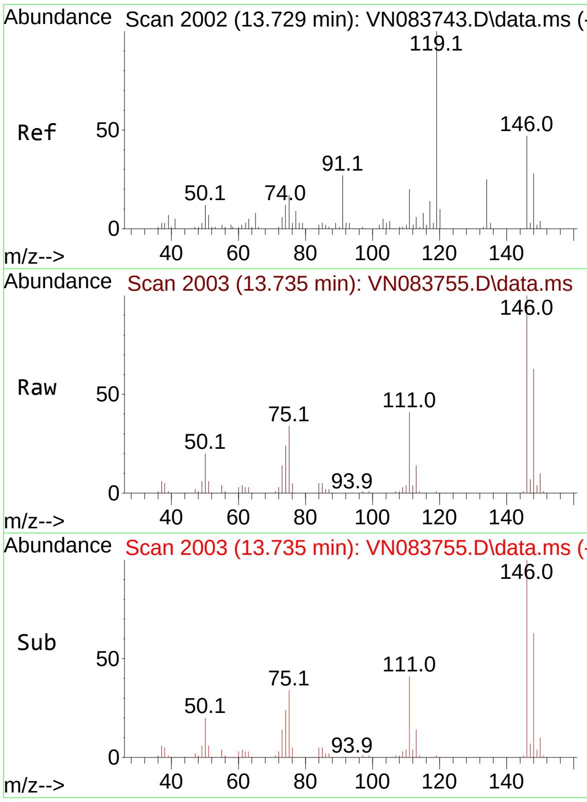
#84
1,2,4-Trimethylbenzene
Concen:   15.838 ug/l
RT:  13.482 min   Scan# 1960
Delta R.T.   0.000 min
Lab File:    VN083755.D
Acq: 10 Sep 2024  16:31

Tgt Ion:105 Resp:  113196
Ion  Ratio  Lower  Upper
105  100
120   43.7   21.8   65.4
```



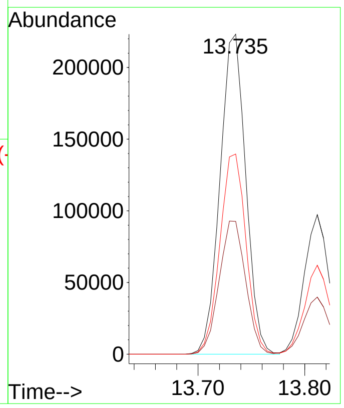
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

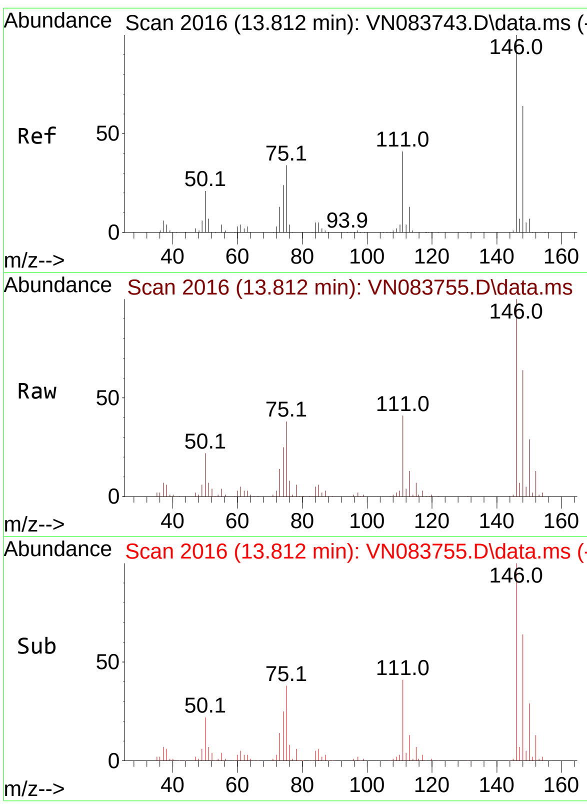


#87
1,3-Dichlorobenzene
Concen: 97.746 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:146 Resp: 374737

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.7	65.1
148	63.6	31.7	95.1

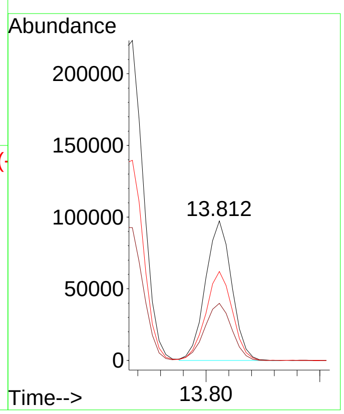




#88
1,4-Dichlorobenzene
Concen: 40.221 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:146 Resp: 156135

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.3	64.0
148	64.4	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

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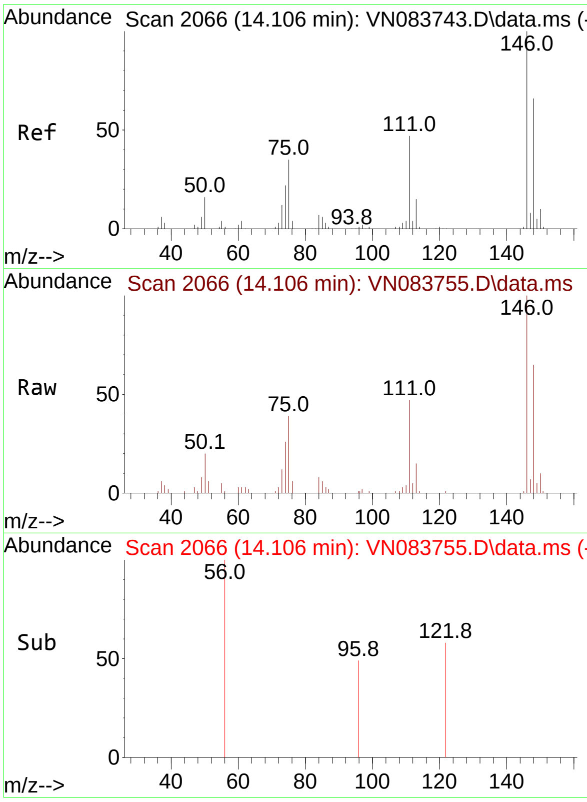
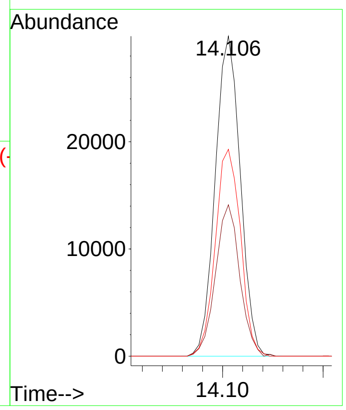
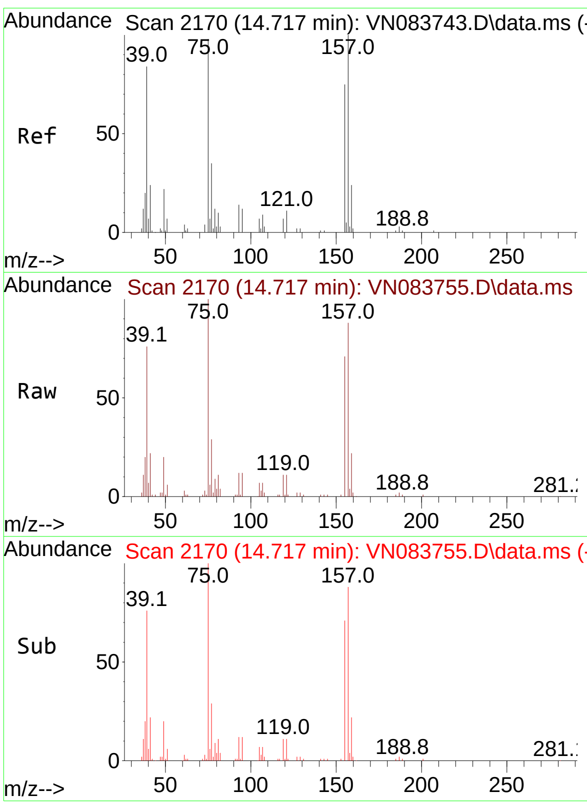


#91
1,2-Dichlorobenzene
Concen: 13.976 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion:146 Resp: 51710

Ion	Ratio	Lower	Upper
146	100		
111	46.0	22.8	68.3
148	65.0	32.1	96.5

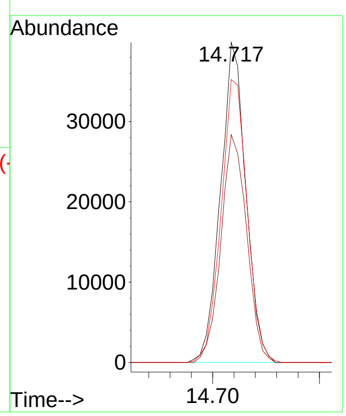


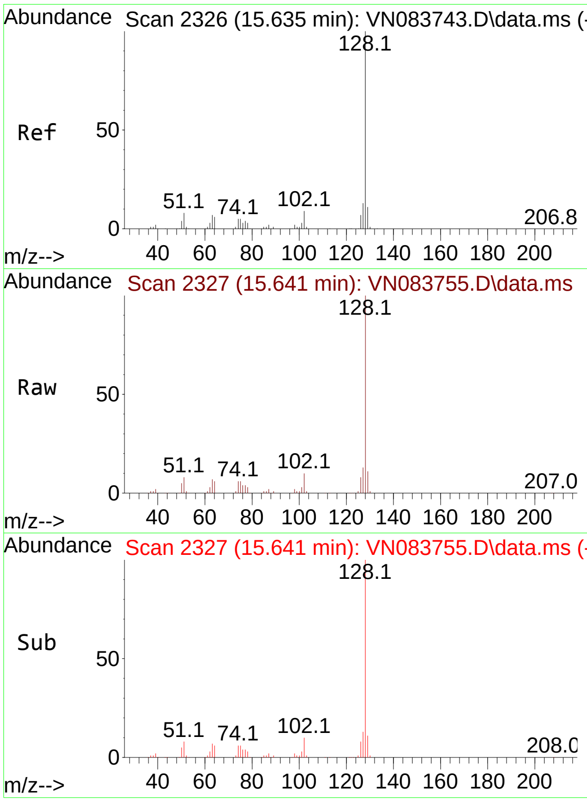


#92
1,2-Dibromo-3-Chloropropane
Concen: 132.611 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083755.D
Acq: 10 Sep 2024 16:31

Tgt Ion: 75 Resp: 65548

Ion	Ratio	Lower	Upper
75	100		
155	72.6	35.9	107.7
157	91.6	47.5	142.5






```
#95
Naphthalene
Concen:   74.782 ug/l
RT:  15.641 min  Scan# 2
Delta R.T.   0.006 min
Lab File:    VN083755.D
Acq: 10 Sep 2024  16:31

Tgt Ion:128 Resp:  451724
Ion  Ratio  Lower  Upper
128  100
127   13.0   10.2   15.2
129   11.1    8.7   13.1
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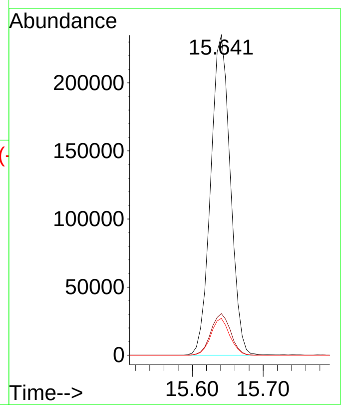
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP



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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WPDL	SDG No.:	P3845
Lab Sample ID:	P3845-01DL	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083797.D	2		09/11/24 15:33	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.42	UD	0.42	2.00	ug/L
74-87-3	Chloromethane	0.70	UD	0.70	2.00	ug/L
75-01-4	Vinyl Chloride	32.9	D	0.68	2.00	ug/L
141-78-6	Ethyl Acetate	0.76	UD	0.76	2.00	ug/L
108-21-4	Isopropyl Acetate	0.58	UDQ	0.58	2.00	ug/L
74-83-9	Bromomethane	44.7	D	2.70	10.0	ug/L
75-00-3	Chloroethane	1.10	UD	1.10	2.00	ug/L
109-99-9	Tetrahydrofuran	2.30	UD	2.30	10.0	ug/L
75-69-4	Trichlorofluoromethane	0.68	UD	0.68	2.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	UD	0.50	2.00	ug/L
75-65-0	Tert butyl alcohol	11.1	UD	11.1	50.0	ug/L
60-29-7	Diethyl Ether	0.40	UD	0.40	2.00	ug/L
75-35-4	1,1-Dichloroethene	0.52	UD	0.52	2.00	ug/L
107-02-8	Acrolein	13.4	UD	13.4	50.0	ug/L
107-13-1	Acrylonitrile	1.80	UD	1.80	10.0	ug/L
67-64-1	Acetone	41.1	D	2.80	10.0	ug/L
75-15-0	Carbon Disulfide	0.64	UD	0.64	2.00	ug/L
1634-04-4	Methyl tert-butyl Ether	69.5	D	0.32	2.00	ug/L
79-20-9	Methyl Acetate	1.20	UD	1.20	2.00	ug/L
75-09-2	Methylene Chloride	0.64	UD	0.64	2.00	ug/L
156-60-5	trans-1,2-Dichloroethene	96.2	D	0.50	2.00	ug/L
108-05-4	Vinyl Acetate	1.40	UD	1.40	10.0	ug/L
75-34-3	1,1-Dichloroethane	0.46	UD	0.46	2.00	ug/L
110-82-7	Cyclohexane	3.20	UD	3.20	10.0	ug/L
78-93-3	2-Butanone	86.6	D	2.60	10.0	ug/L
56-23-5	Carbon Tetrachloride	0.50	UD	0.50	2.00	ug/L
594-20-7	2,2-Dichloropropane	0.62	UD	0.62	2.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6	D	0.50	2.00	ug/L
74-97-5	Bromochloromethane	0.36	UD	0.36	2.00	ug/L
67-66-3	Chloroform	20.8	D	0.52	2.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WPDL	SDG No.:	P3845
Lab Sample ID:	P3845-01DL	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083797.D	2		09/11/24 15:33	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	0.38	UD	0.38	2.00	ug/L
108-87-2	Methylcyclohexane	0.38	UD	0.38	2.00	ug/L
563-58-6	1,1-Dichloropropene	0.36	UD	0.36	2.00	ug/L
71-43-2	Benzene	37.3	D	0.32	2.00	ug/L
107-06-2	1,2-Dichloroethane	130	D	0.48	2.00	ug/L
79-01-6	Trichloroethene	53.3	D	0.64	2.00	ug/L
78-87-5	1,2-Dichloropropane	20.2	D	0.38	2.00	ug/L
74-95-3	Dibromomethane	15.2	D	0.46	2.00	ug/L
75-27-4	Bromodichloromethane	86.7	D	0.48	2.00	ug/L
108-10-1	4-Methyl-2-Pentanone	1.50	UD	1.50	10.0	ug/L
108-88-3	Toluene	90.7	D	0.36	2.00	ug/L
10061-02-6	t-1,3-Dichloropropene	98.5	D	0.42	2.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	98.2	D	0.36	2.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.42	UD	0.42	2.00	ug/L
142-28-9	1,3-Dichloropropane	0.34	UD	0.34	2.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	3.50	UD	3.50	10.0	ug/L
591-78-6	2-Hexanone	2.30	UD	2.30	10.0	ug/L
124-48-1	Dibromochloromethane	27.7	D	0.36	2.00	ug/L
106-93-4	1,2-Dibromoethane	37.8	D	0.32	2.00	ug/L
127-18-4	Tetrachloroethene	0.50	UD	0.50	2.00	ug/L
108-90-7	Chlorobenzene	41.2	D	0.26	2.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.42	UD	0.42	2.00	ug/L
100-41-4	Ethyl Benzene	78.7	D	0.32	2.00	ug/L
179601-23-1	m/p-Xylenes	23.9	D	0.62	4.00	ug/L
1330-20-7	Total Xylenes	123	D	0.90	6.00	ug/L
95-47-6	o-Xylene	98.8	D	0.28	2.00	ug/L
100-42-5	Styrene	93.1	D	0.32	2.00	ug/L
75-25-2	Bromoform	66.8	D	0.42	2.00	ug/L
98-82-8	Isopropylbenzene	0.26	UD	0.26	2.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.54	UD	0.54	2.00	ug/L
96-18-4	1,2,3-Trichloropropane	87.7	D	0.78	2.00	ug/L

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WPDL	SDG No.:	P3845
Lab Sample ID:	P3845-01DL	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083797.D	2		09/11/24 15:33	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-86-1	Bromobenzene	0.52	UD	0.52	2.00	ug/L
103-65-1	n-propylbenzene	0.28	UD	0.28	2.00	ug/L
95-49-8	2-Chlorotoluene	0.32	UD	0.32	2.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	25.7	D	0.36	2.00	ug/L
106-43-4	4-Chlorotoluene	0.36	UD	0.36	2.00	ug/L
98-06-6	tert-Butylbenzene	0.34	UD	0.34	2.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	12.5	D	0.36	2.00	ug/L
135-98-8	sec-Butylbenzene	0.34	UD	0.34	2.00	ug/L
99-87-6	p-Isopropyltoluene	0.30	UD	0.30	2.00	ug/L
541-73-1	1,3-Dichlorobenzene	80.7	D	0.48	2.00	ug/L
106-46-7	1,4-Dichlorobenzene	34.2	D	0.54	2.00	ug/L
104-51-8	n-Butylbenzene	0.44	UD	0.44	2.00	ug/L
95-50-1	1,2-Dichlorobenzene	11.6	D	0.38	2.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	110	D	0.92	2.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.84	UD	0.84	2.00	ug/L
87-68-3	Hexachlorobutadiene	0.62	UD	0.62	2.00	ug/L
91-20-3	Naphthalene	59.4	D	1.20	2.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	UD	1.00	2.00	ug/L
628-63-7	N-amyl acetate	0.46	UD	0.46	2.00	ug/L
74-88-4	Methyl Iodide	2.40	UD	2.40	10.0	ug/L
107-05-1	Allyl chloride	0.48	UD	0.48	2.00	ug/L
126-98-7	Methacrylonitrile	0.62	UD	0.62	2.00	ug/L
97-63-2	Ethyl methacrylate	0.32	UD	0.32	2.00	ug/L
108-20-3	Diisopropyl ether	0.32	UD	0.32	2.00	ug/L
123-91-1	1,4-Dioxane	13.1	UD	13.1	200	ug/L
80-62-6	Methyl methacrylate	0.64	UD	0.64	2.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.3		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	51.0		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		77 - 121	98%	SPK: 50
INTERNAL STANDARDS						

Alliance TECHNICAL GROUP

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VOA-WPDL	SDG No.:	P3845
Lab Sample ID:	P3845-01DL	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083797.D	2		09/11/24 15:33	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	148000	8.224			
540-36-3	1,4-Difluorobenzene	263000	9.1			
3114-55-4	Chlorobenzene-d5	235000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.794			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083797.D
Acq On : 11 Sep 2024 15:33
Operator : JC\MD
Sample : P3845-01DL 2X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

Quant Time: Sep 12 08:49:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	148437	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	263183	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	234657	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	115304	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116994	52.271	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.540%			
35) Dibromofluoromethane	8.159	113	82625	49.040	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.080%			
50) Toluene-d8	10.565	98	296999	50.990	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.980%			
62) 4-Bromofluorobenzene	12.847	95	117981	49.095	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.200%			
Target Compounds						Qvalue
4) Vinyl Chloride	2.512	62	31052	16.434	ug/l	97
5) Bromomethane	2.900	94	24265	22.367	ug/l	95
16) Acetone	4.436	43	18452	20.565	ug/l	95
19) Methyl tert-butyl Ether	5.794	73	201896	34.751	ug/l	99
21) trans-1,2-Dichloroethene	5.777	96	82793	48.119	ug/l	90
25) 2-Butanone	7.482	43	51055	43.293	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	19981	9.783	ug/l	90
30) Chloroform	7.965	83	37459	10.400	ug/l	91
40) Benzene	8.600	78	142444	18.662	ug/l	95
42) 1,2-Dichloroethane	8.671	62	189892	66.578	ug/l	100
44) Trichloroethene	9.353	130	47113	26.654	ug/l	98
45) 1,2-Dichloropropane	9.618	63	18643	10.106	ug/l	98
46) Dibromomethane	9.712	93	9794	7.579	ug/l	96
47) Bromodichloromethane	9.888	83	121292	43.372	ug/l	99
52) Toluene	10.629	92	211824	45.370	ug/l	94
53) t-1,3-Dichloropropene	10.835	75	139609	49.251	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	146144	49.081	ug/l	97
60) Dibromochloromethane	11.359	129	27013	13.848	ug/l	100
61) 1,2-Dibromoethane	11.470	107	32894	18.923	ug/l	99
65) Chlorobenzene	11.888	112	107422	20.597	ug/l	96
67) Ethyl Benzene	11.965	91	364635	39.357	ug/l	100
68) m/p-Xylenes	12.070	106	41076	11.942	ug/l	100
69) o-Xylene	12.400	106	164570	49.423	ug/l	100
70) Styrene	12.412	104	254368	46.547	ug/l	98
71) Bromoform	12.576	173	40673	33.383	ug/l #	100
76) 1,2,3-Trichloropropane	12.994	75	102042	43.859	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.170	105	96549	12.837	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	47147	6.241	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	163526	40.352	ug/l	100
88) 1,4-Dichlorobenzene	13.811	146	70177	17.102	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	22690	5.802	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28259	54.085	ug/l	98
95) Naphthalene	15.641	128	189667	29.704	ug/l	99

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

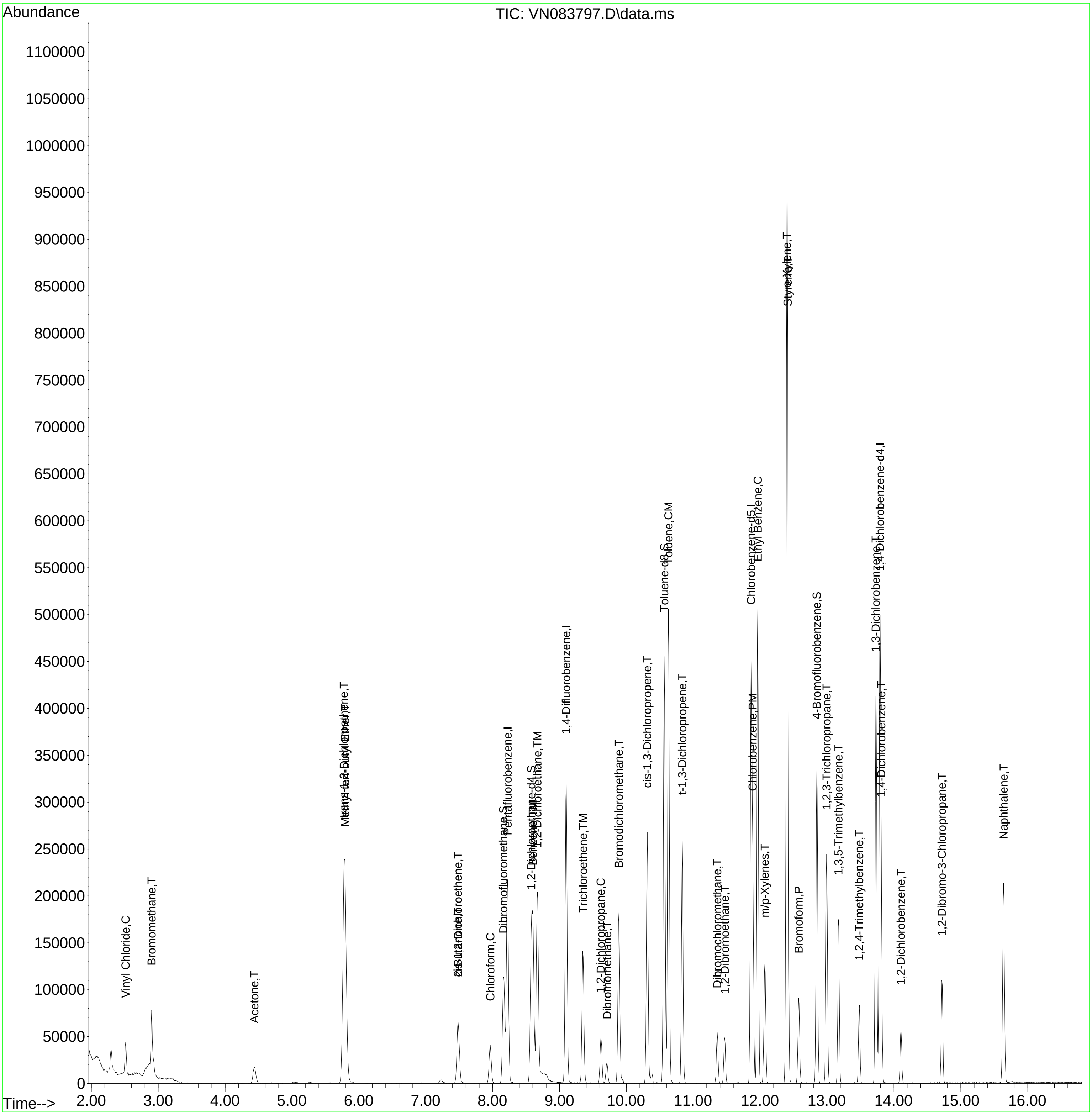
Quantitation Report (QT Reviewed)

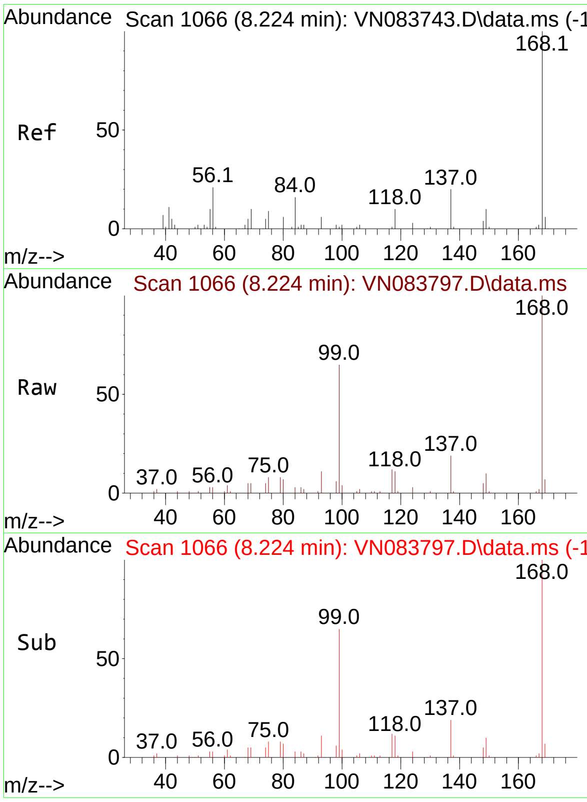
Sample Results: **VN083797.D**

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083797.D
Acq On    : 11 Sep 2024  15:33
Operator  : JC\MD
Sample    : P3845-01DL 2X
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Sep 12 08:49:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title  : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL



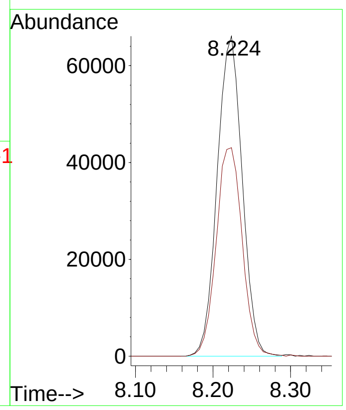


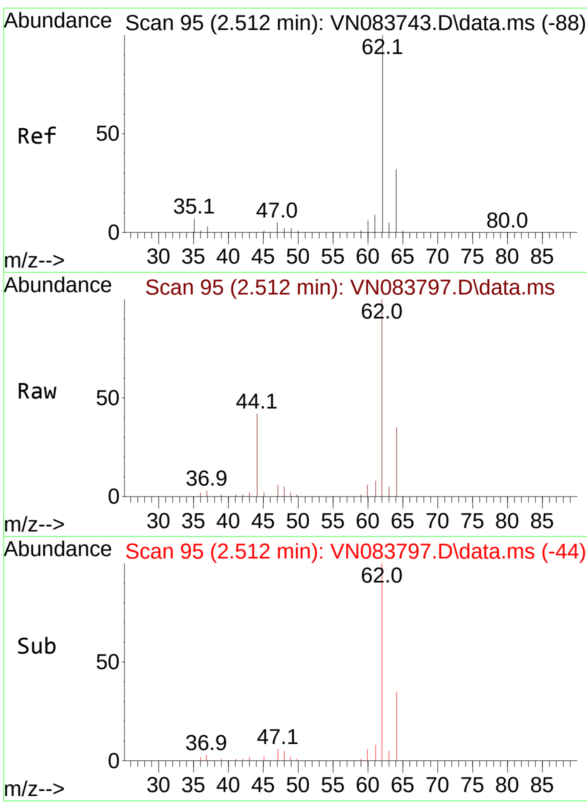
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

Tgt Ion:168 Resp: 148437

Ion	Ratio	Lower	Upper
168	100		
99	65.1	54.2	81.2

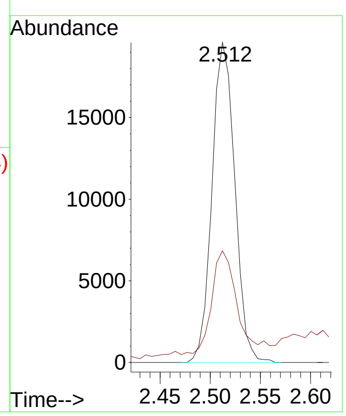




#4
Vinyl Chloride
Concen: 16.434 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 62 Resp: 31052

Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.7	37.1



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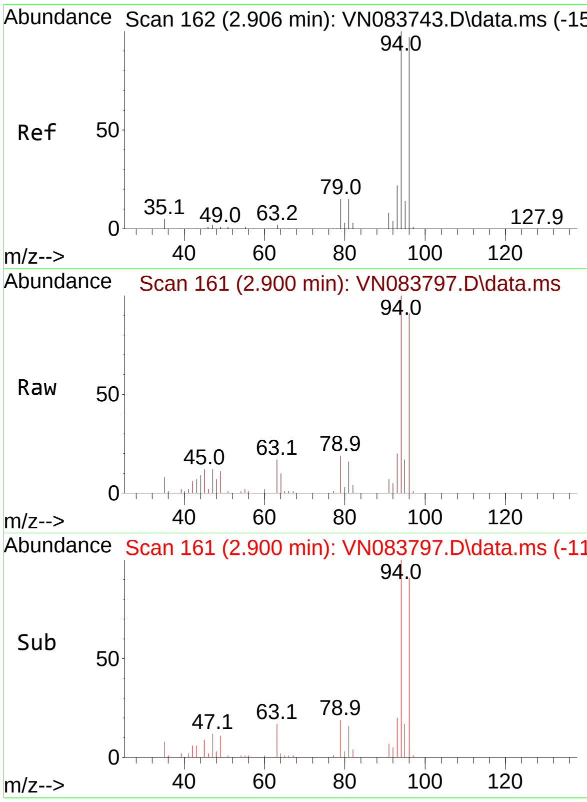
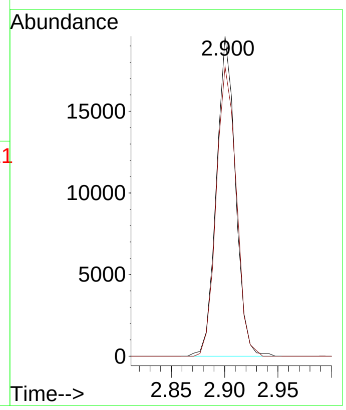
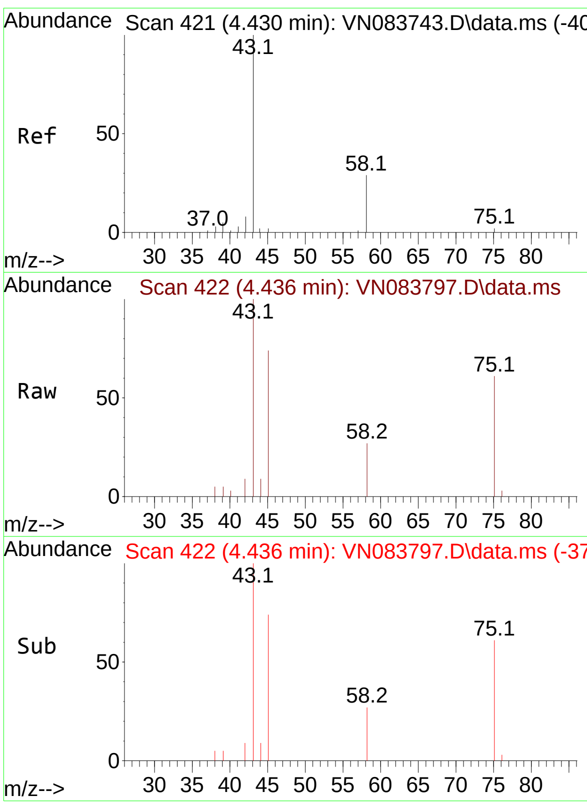
Instrument : MSVOA_N
ClientSampleId : PT-VOA-WPDL




```
#5
Bromomethane
Concen:   22.367 ug/l
RT:   2.900 min  Scan# 1
Delta R.T.  -0.006 min
Lab File:   VN083797.D
Acq: 11 Sep 2024  15:33

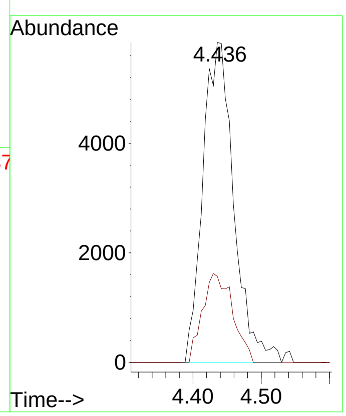
Tgt Ion: 94 Resp:   24265
Ion  Ratio  Lower  Upper
 94  100
 96   90.6   76.0  114.0
```



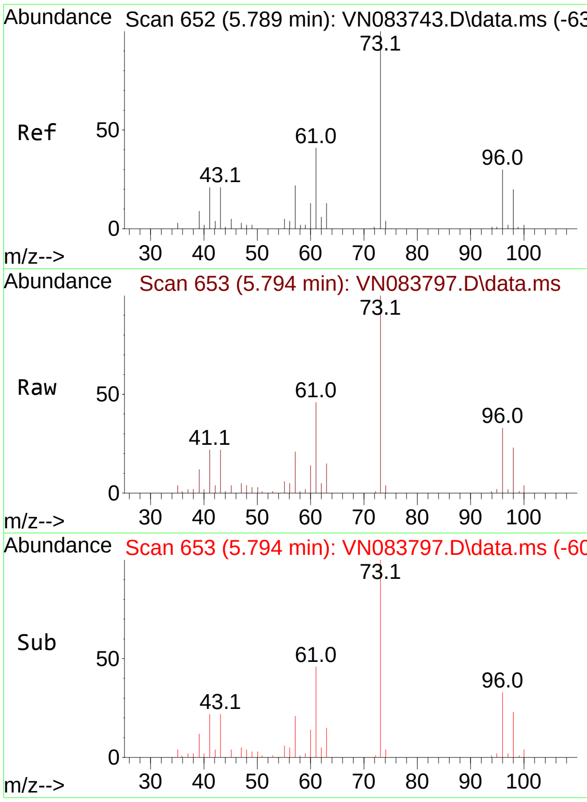



```
#16
Acetone
Concen:   20.565 ug/l
RT:   4.436 min  Scan# 422
Delta R.T.  0.006 min
Lab File:   VN083797.D
Acq: 11 Sep 2024  15:33

Tgt Ion: 43 Resp:   18452
Ion  Ratio  Lower  Upper
 43  100
 58   26.9   23.7   35.5
```

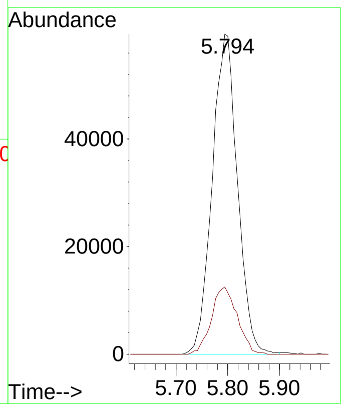


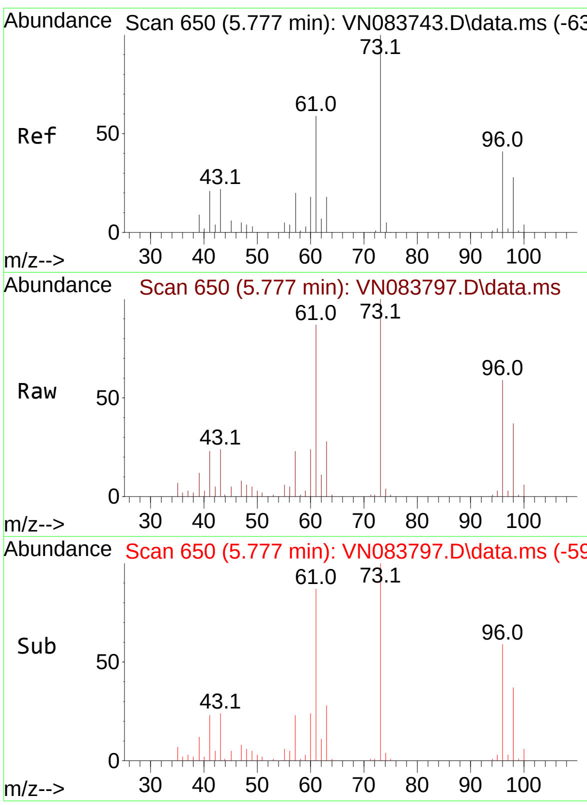
Instrument : MSVOA_N
ClientSampleId : PT-VOA-WPDL




```
#19
Methyl tert-butyl Ether
Concen:    34.751 ug/l
RT:    5.794 min   Scan# 6
Delta R.T.   0.006 min
Lab File:    VN083797.D
Acq: 11 Sep 2024   15:33

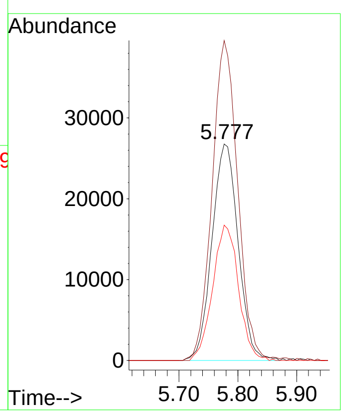
Tgt Ion: 73 Resp:   201896
Ion   Ratio   Lower   Upper
 73   100
 57    21.0    17.0    25.6
```





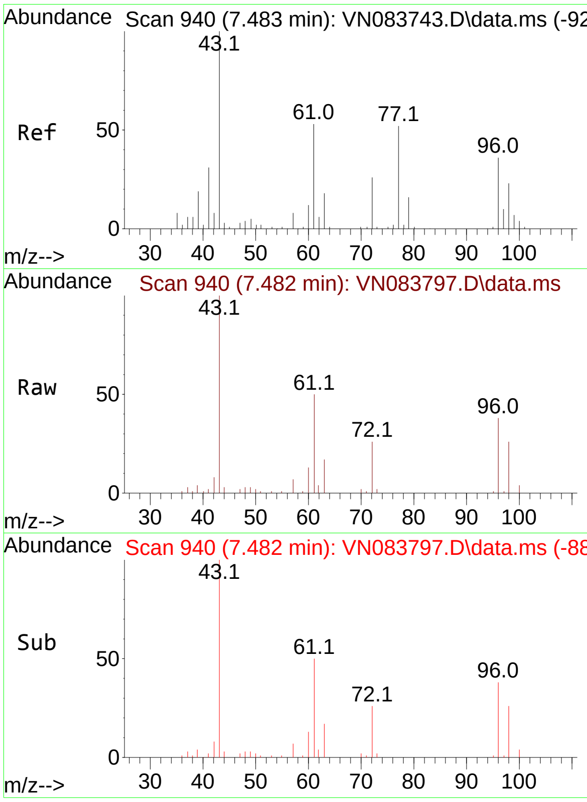

```
#21
trans-1,2-Dichloroethene
Concen:    48.119 ug/l
RT:    5.777 min   Scan# 650
Delta R.T.   -0.000 min
Lab File:    VN083797.D
Acq: 11 Sep 2024   15:33

Tgt Ion: 96 Resp:    82793
Ion   Ratio   Lower   Upper
 96   100
 61   147.8   106.0   159.0
 98    62.5    52.2    78.2
```



Instrument : MSVOA_N
ClientSampleId : PT-VOA-WPDL

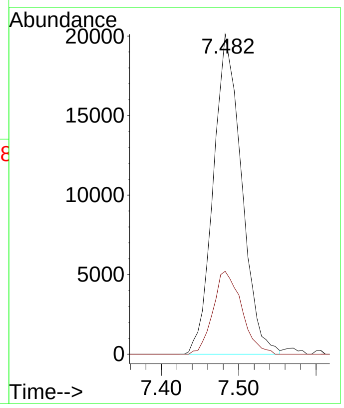
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

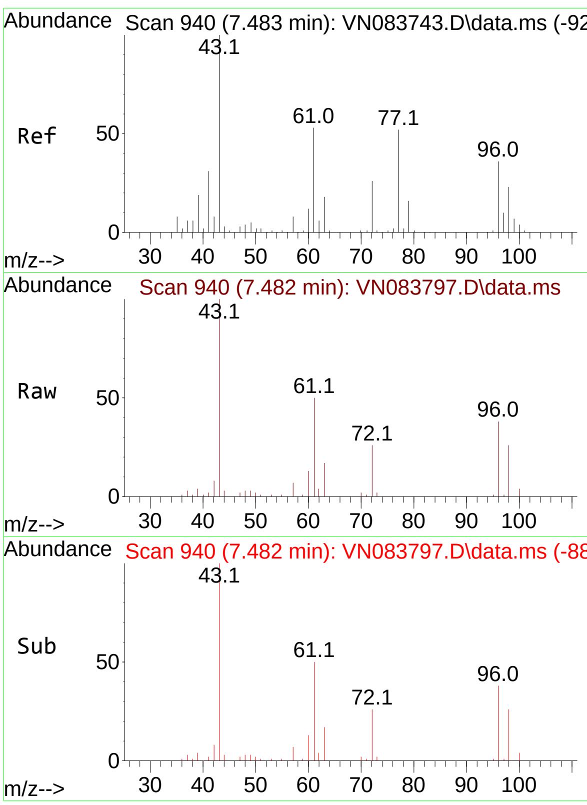


#25
2-Butanone
Concen: 43.293 ug/l
RT: 7.482 min   Scan# 94
Delta R.T.   -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024   15:33

Tgt Ion: 43 Resp: 51055

Ion	Ratio	Lower	Upper
43	100		
72	25.9	20.8	31.2

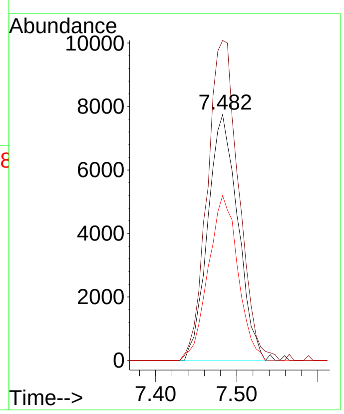




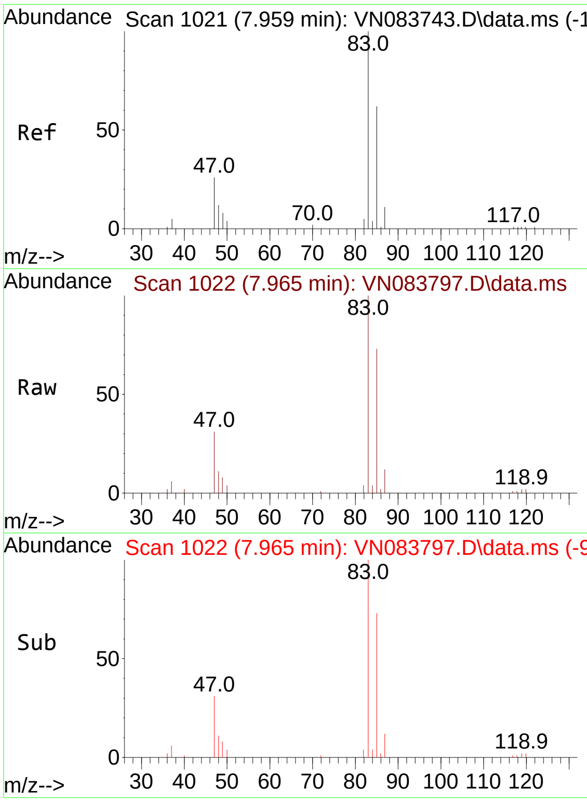
#27
cis-1,2-Dichloroethene
Concen: 9.783 ug/l
RT: 7.482 min   Scan# 940
Delta R.T.   -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024   15:33

Tgt Ion: 96 Resp: 19981

Ion	Ratio	Lower	Upper
96	100		
61	135.6	0.0	306.2
98	66.1	0.0	128.6



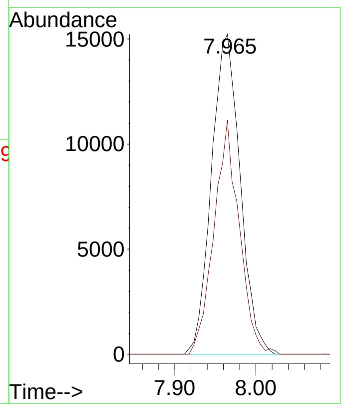
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

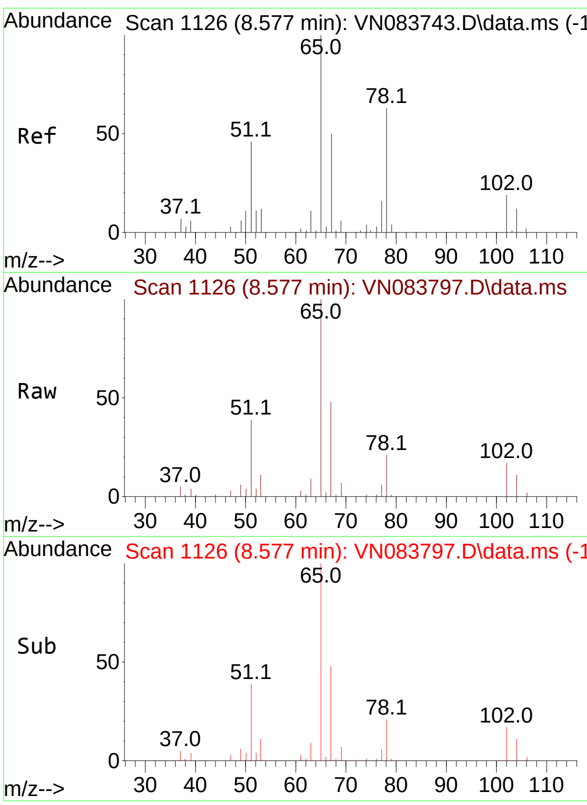


#30
Chloroform
Concen: 10.400 ug/l
RT: 7.965 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 83 Resp: 37459

Ion	Ratio	Lower	Upper
83	100		
85	73.1	52.8	79.2

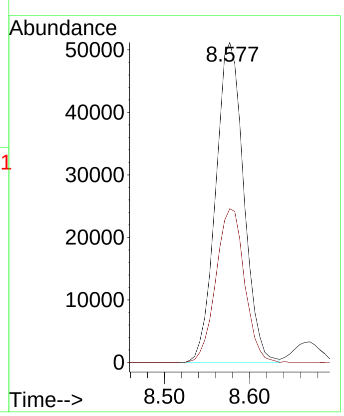




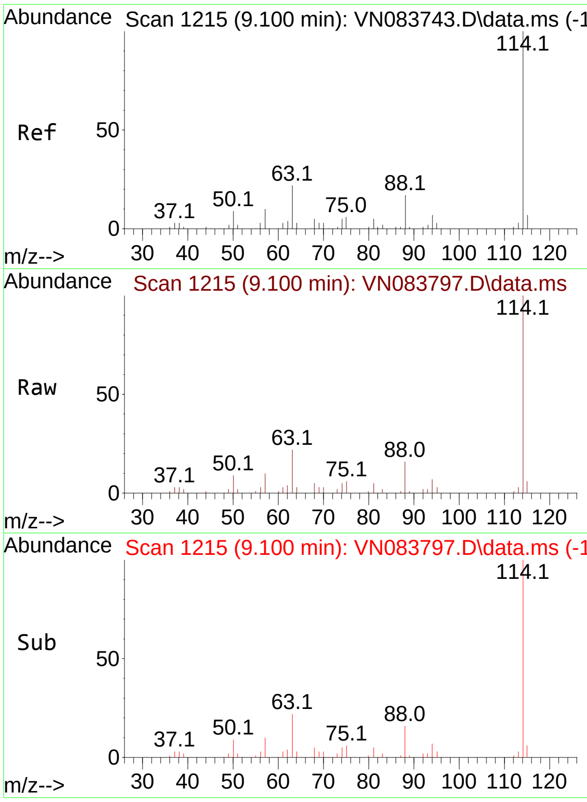
#33
1,2-Dichloroethane-d4
Concen: 52.271 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 65 Resp: 116994

Ion	Ratio	Lower	Upper
65	100		
67	49.0	0.0	100.8



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

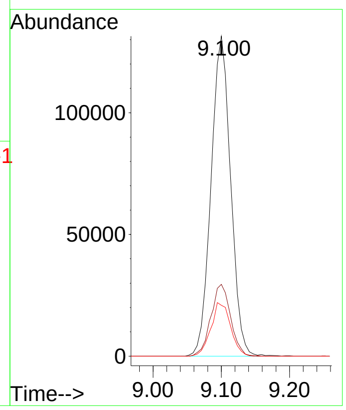


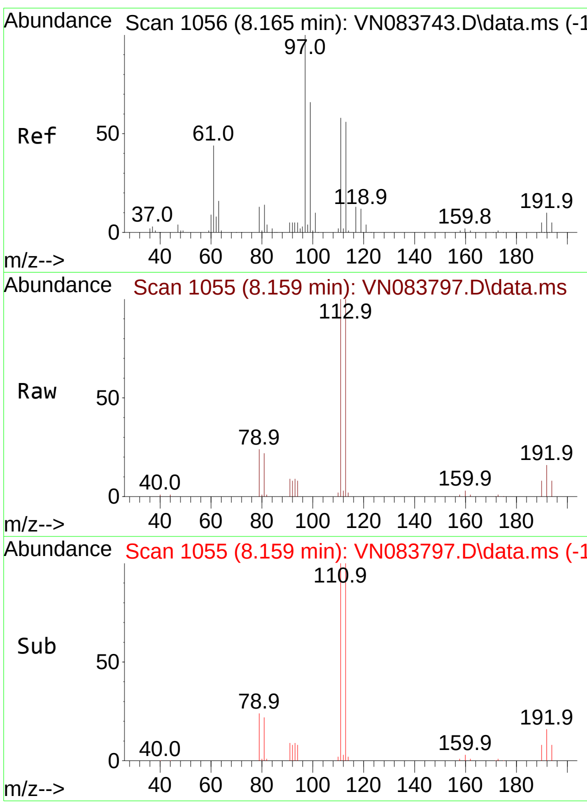
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

Tgt Ion:114 Resp: 263183

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	43.4
88	15.9	0.0	32.6

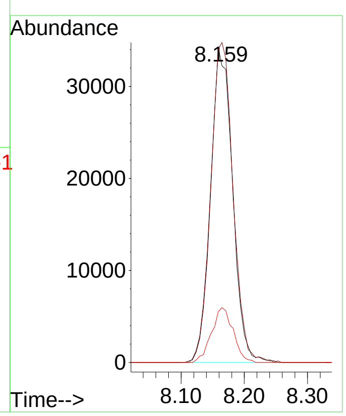




#35
Dibromofluoromethane
Concen: 49.040 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

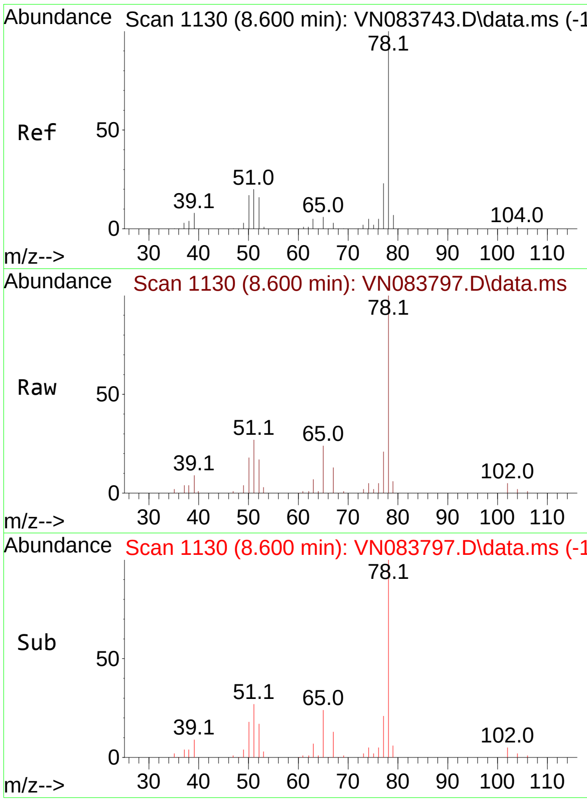
Tgt Ion:113 Resp: 82625

Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.6	124.0
192	17.2	14.3	21.5



Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

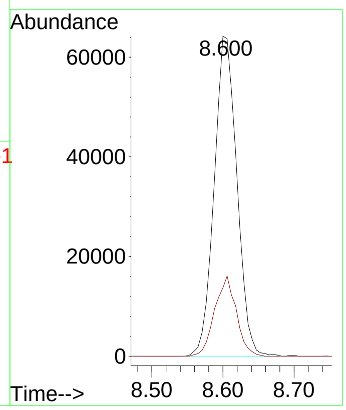
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

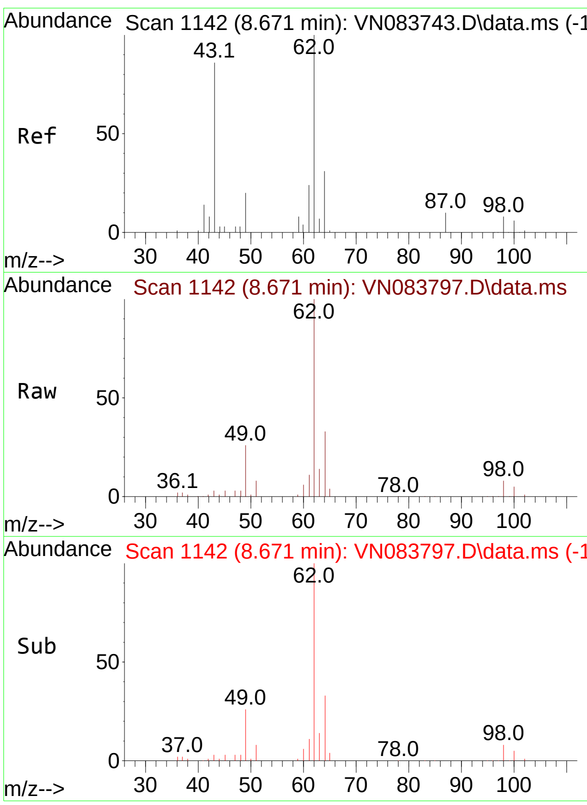


#40
Benzene
Concen: 18.662 ug/l
RT: 8.600 min   Scan# 1
Delta R.T.   -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024   15:33

Tgt Ion: 78 Resp: 142444

Ion	Ratio	Lower	Upper
78	100		
77	21.4	19.0	28.6

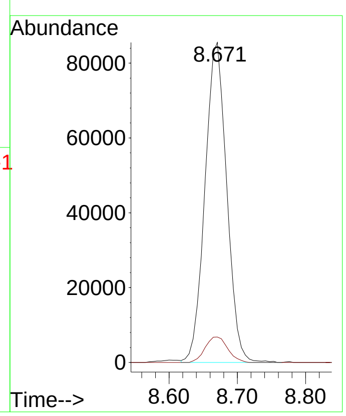




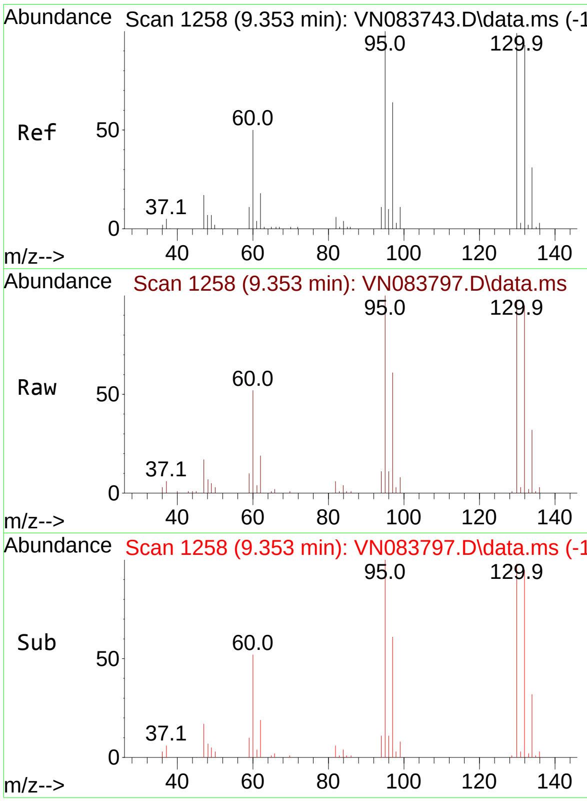
#42
1,2-Dichloroethane
Concen: 66.578 ug/l
RT: 8.671 min   Scan# 1142
Delta R.T.   -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024   15:33

Tgt Ion: 62 Resp: 189892

Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	16.6



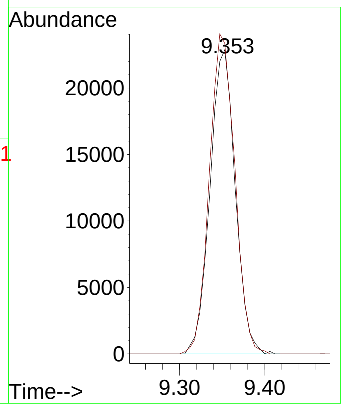
Instrument : MSVOA_N
ClientSampleId : PT-VOA-WPDL

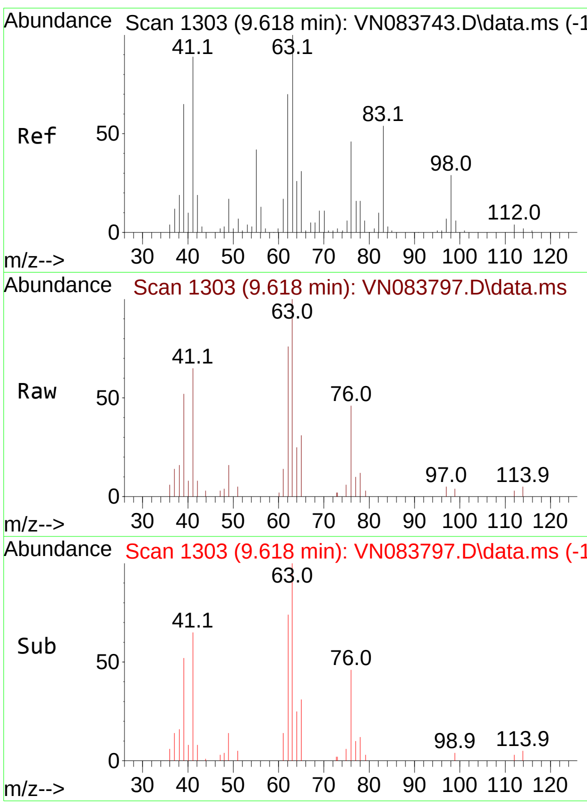


#44
Trichloroethene
Concen: 26.654 ug/l
RT: 9.353 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:130 Resp: 47113

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	200.4

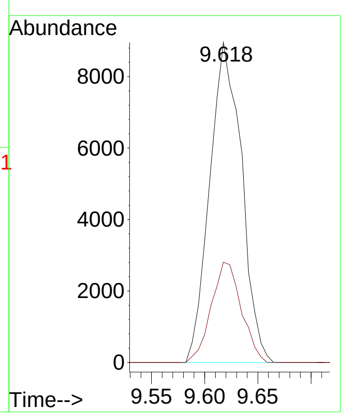




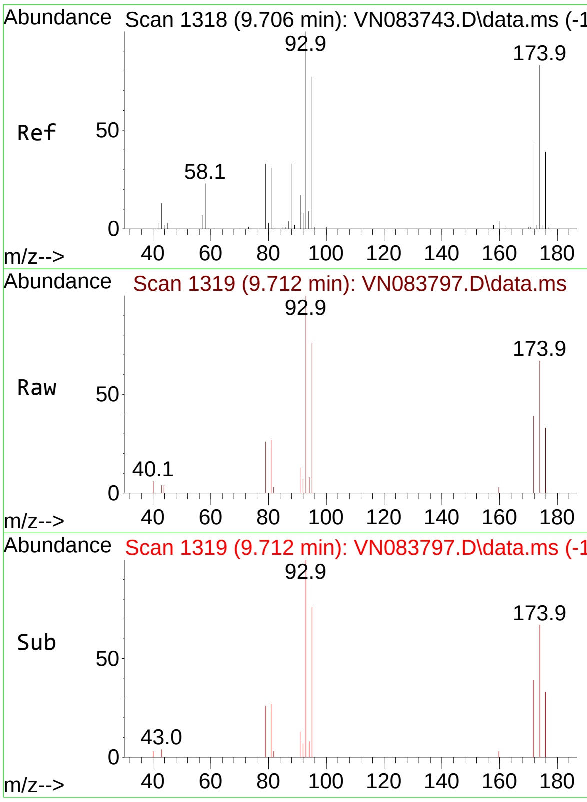
#45
1,2-Dichloropropane
Concen: 10.106 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 63 Resp: 18643

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.9	38.9



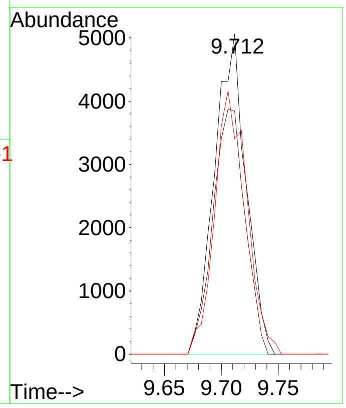
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

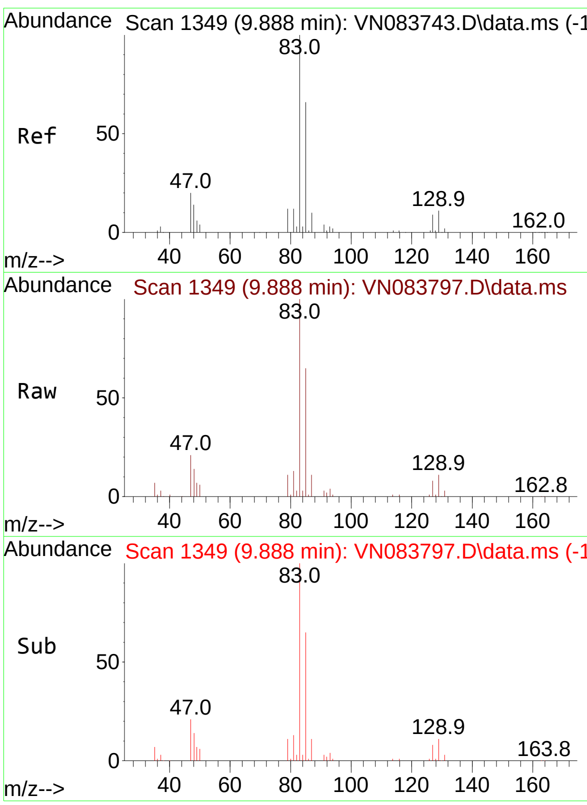


#46
Dibromomethane
Concen: 7.579 ug/l
RT: 9.712 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 93 Resp: 9794

Ion	Ratio	Lower	Upper
93	100		
95	78.4	65.3	97.9
174	84.6	71.0	106.4

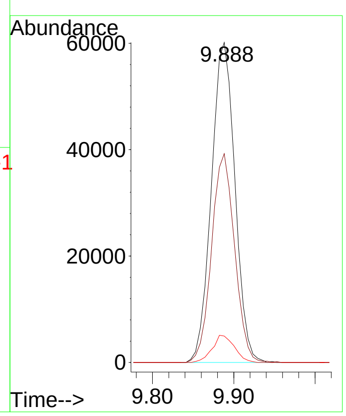




#47
Bromodichloromethane
Concen: 43.372 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 83 Resp: 121292

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.8	77.8
127	8.3	6.6	9.8



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Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

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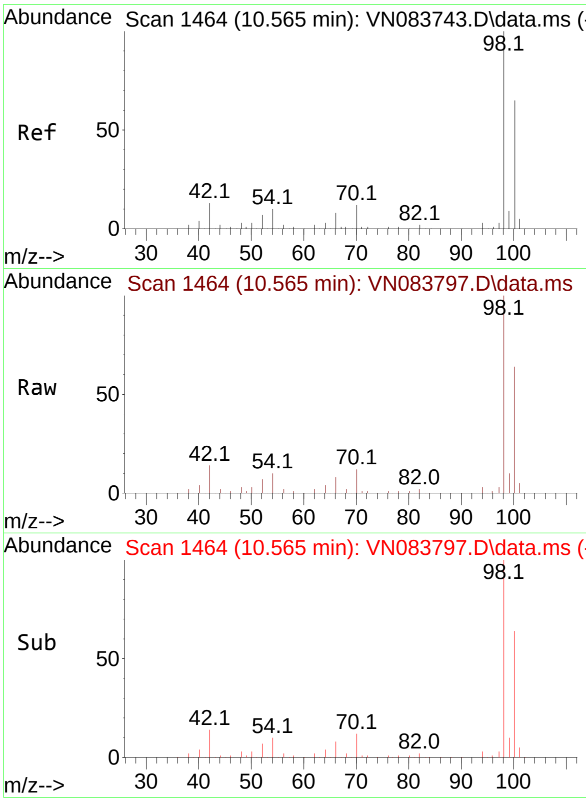
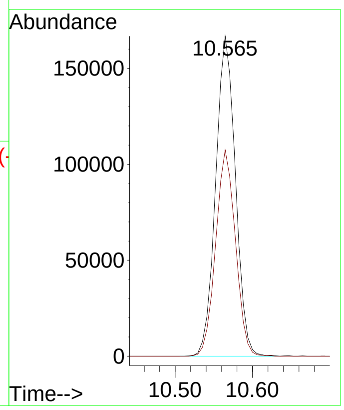
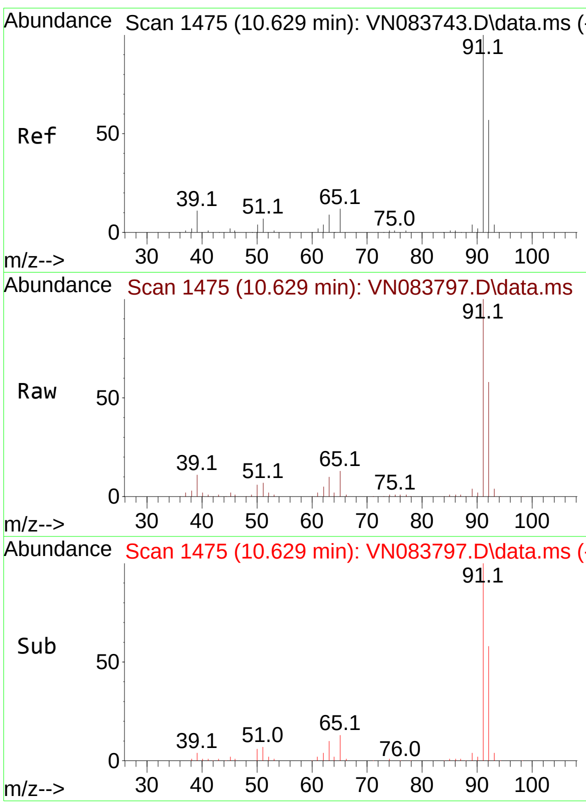


#50
Toluene-d8
Concen: 50.990 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 98 Resp: 296999

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.0	78.0

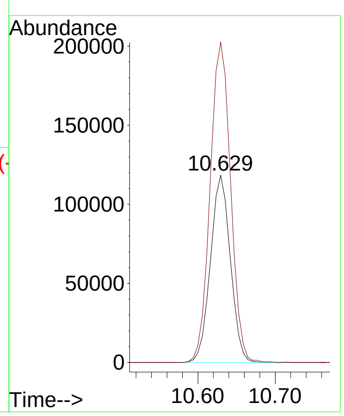




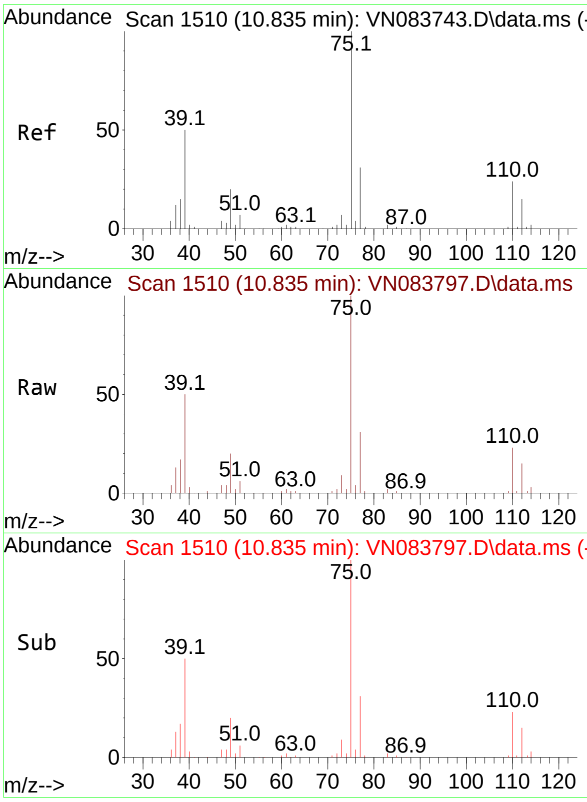
#52
Toluene
Concen: 45.370 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 92 Resp: 211824

Ion	Ratio	Lower	Upper
92	100		
91	176.5	134.7	202.1



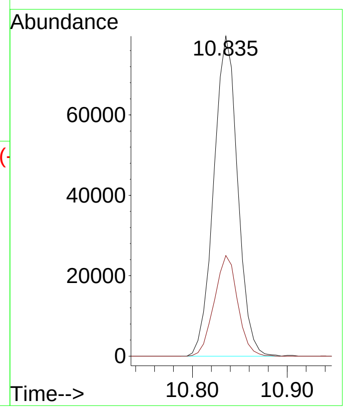
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

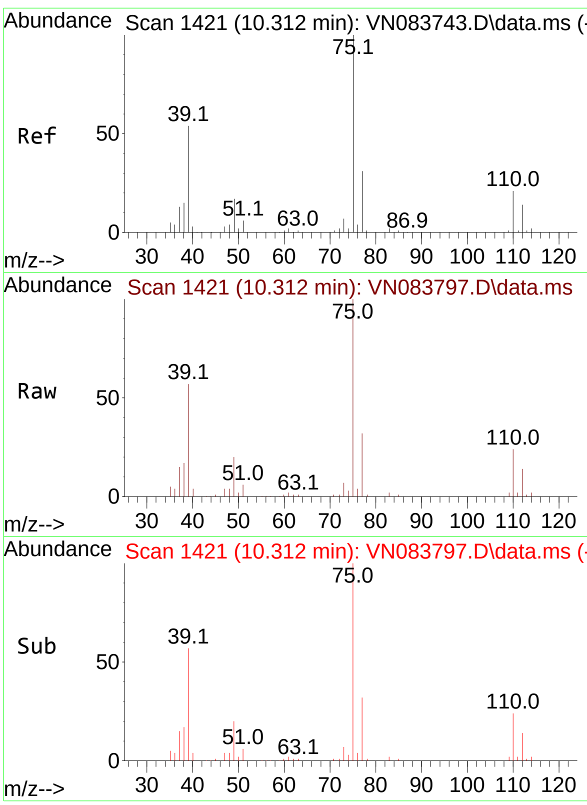


#53
t-1,3-Dichloropropene
Concen: 49.251 ug/l
RT: 10.835 min Scan# 1!
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 75 Resp: 139609

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6

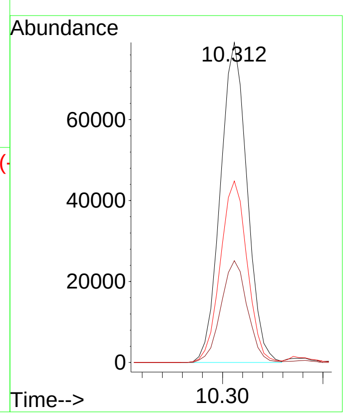




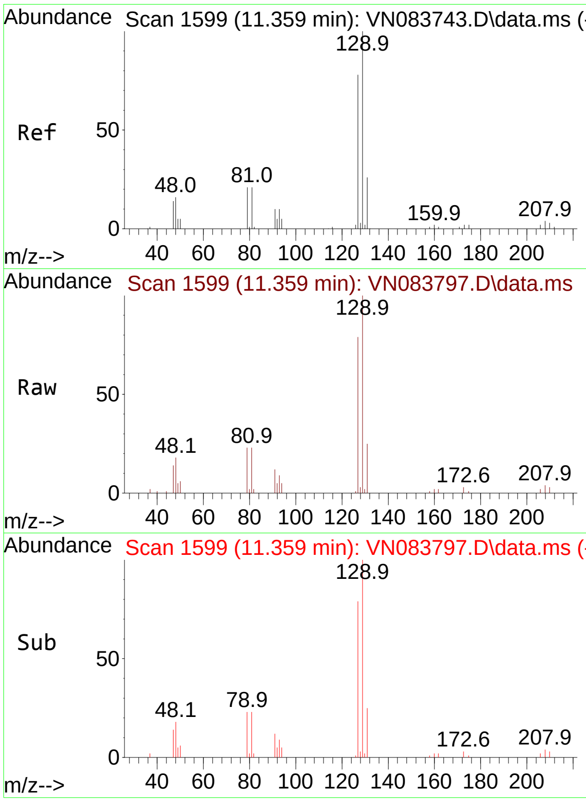
#54
cis-1,3-Dichloropropene
Concen: 49.081 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 75 Resp: 146144

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.0	37.6
39	56.7	42.6	64.0



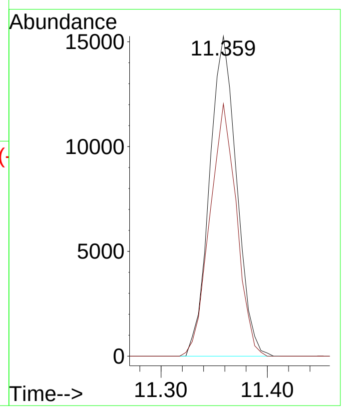
Instrument : MSVOA_N
ClientSampleId : PT-VOA-WPDL

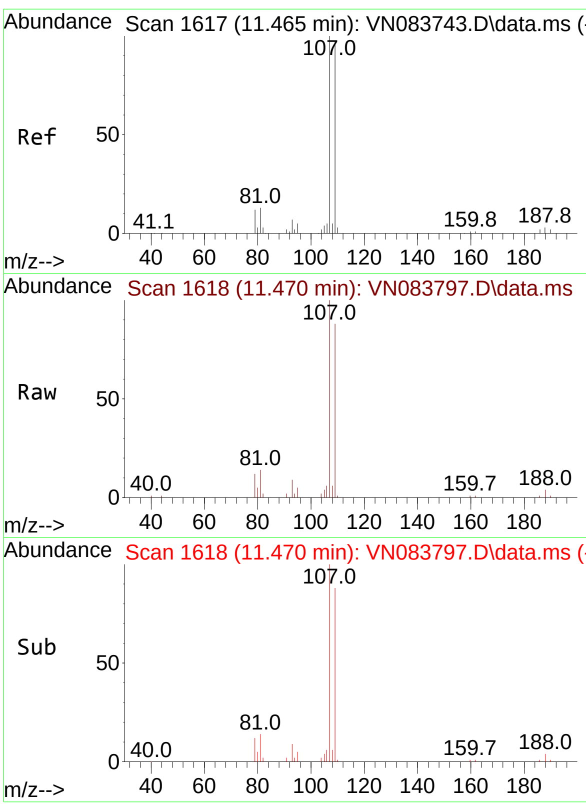


#60
Dibromochloromethane
Concen: 13.848 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:129 Resp: 27013

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.0	116.9

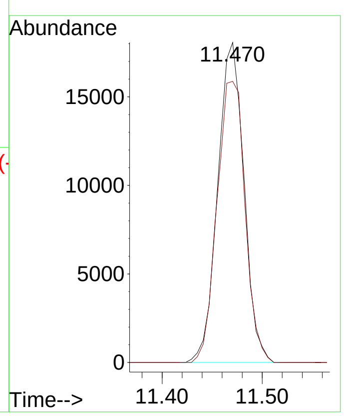




#61
1,2-Dibromoethane
Concen: 18.923 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

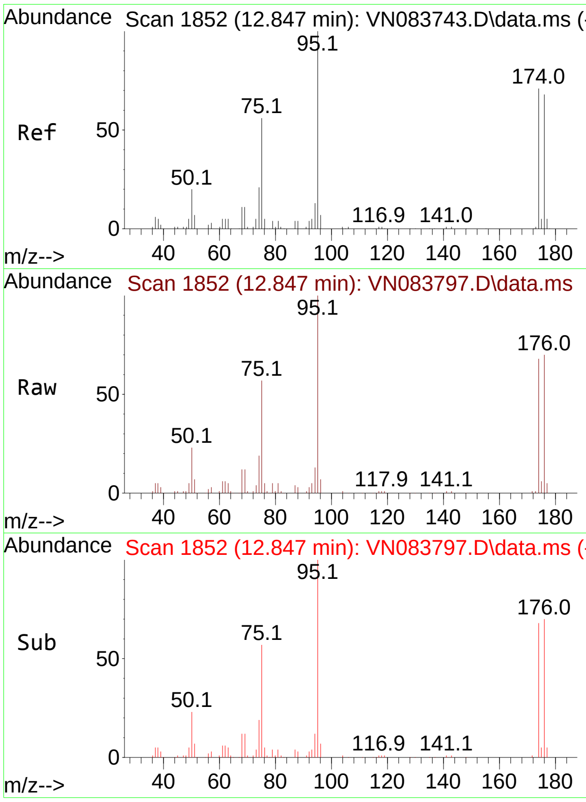
Tgt Ion:107 Resp: 32894

Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.6	113.4



Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

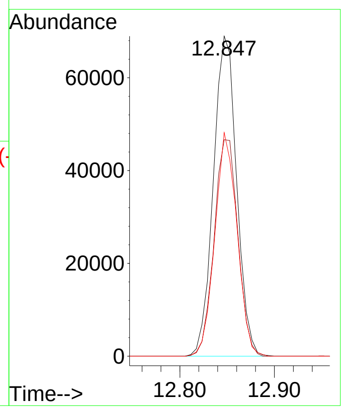
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

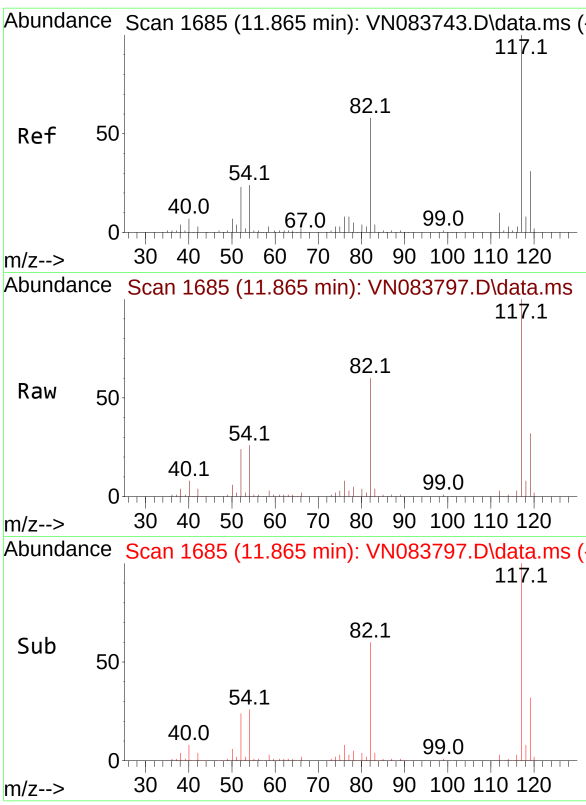


#62
4-Bromofluorobenzene
Concen: 49.095 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 95 Resp: 117981

Ion	Ratio	Lower	Upper
95	100		
174	69.2	0.0	139.8
176	66.7	0.0	131.4

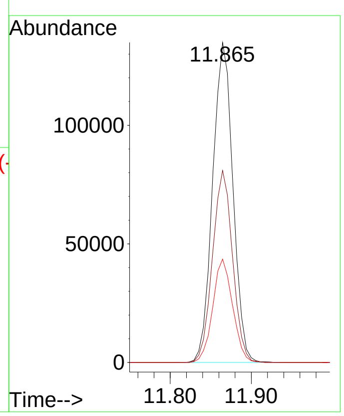




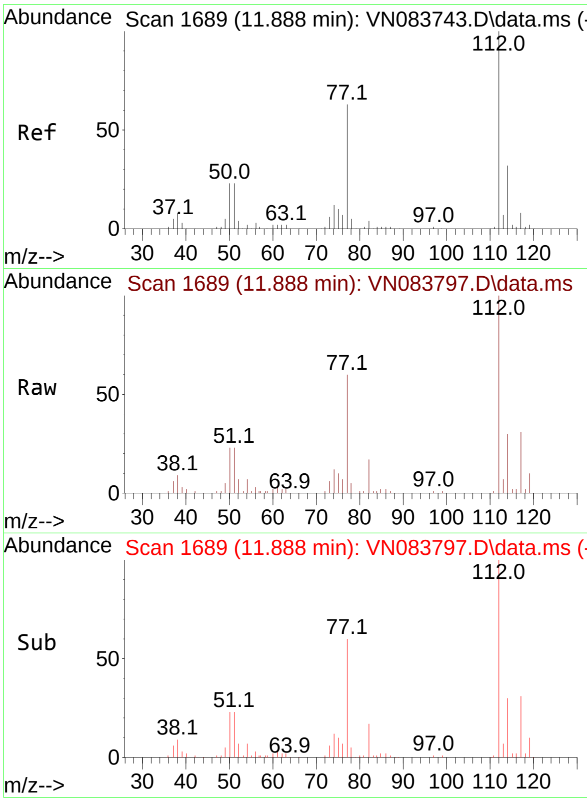
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:117 Resp: 234657

Ion	Ratio	Lower	Upper
117	100		
82	60.0	47.4	71.0
119	32.3	26.3	39.5



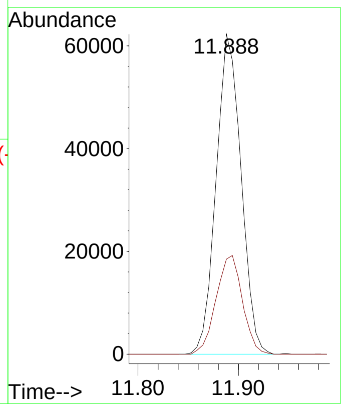
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

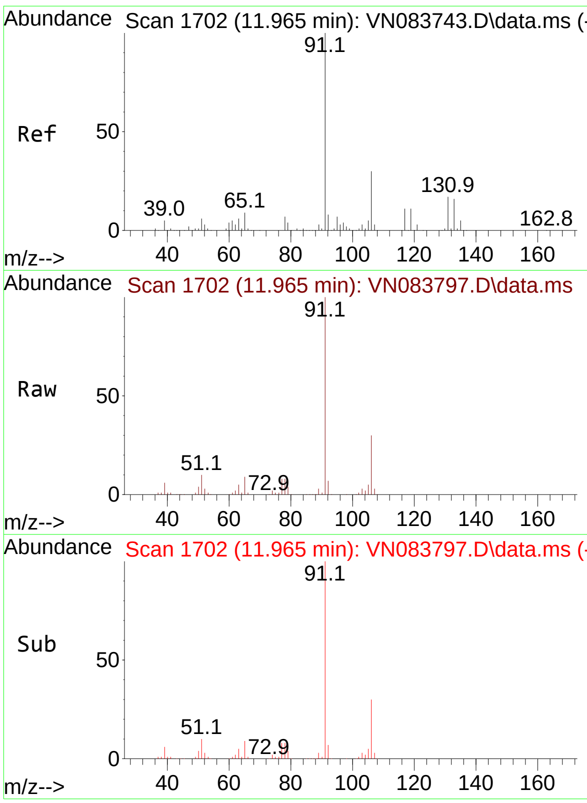


#65
Chlorobenzene
Concen: 20.597 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:112 Resp: 107422

Ion	Ratio	Lower	Upper
112	100		
114	29.7	25.7	38.5

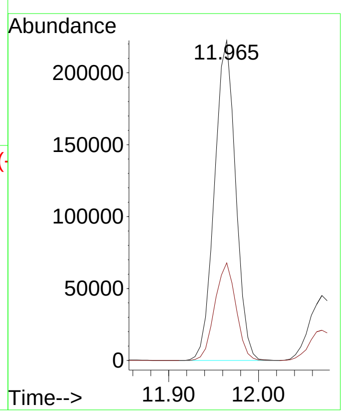




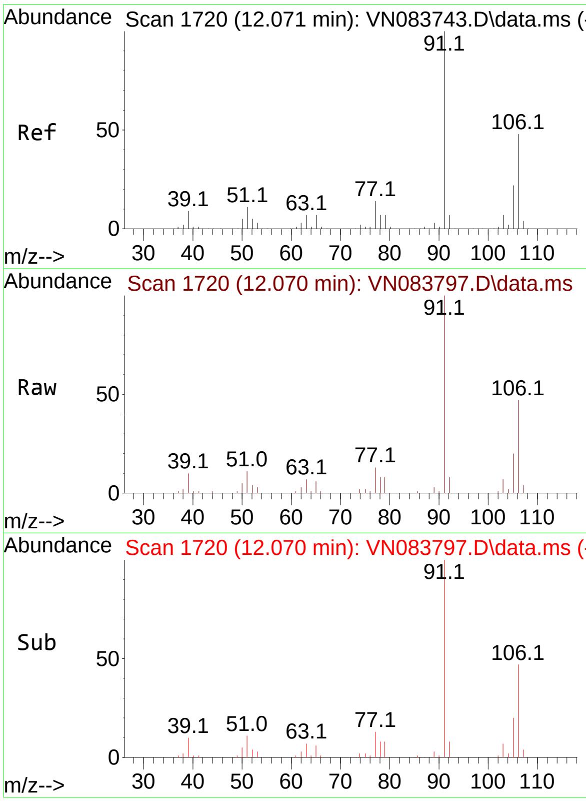
#67
Ethyl Benzene
Concen: 39.357 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 91 Resp: 364635

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5

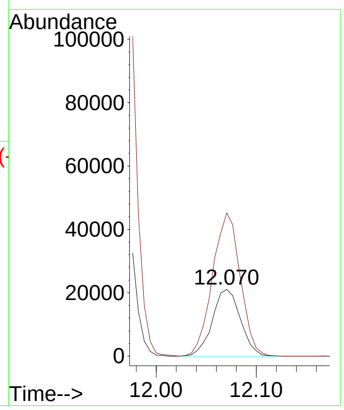


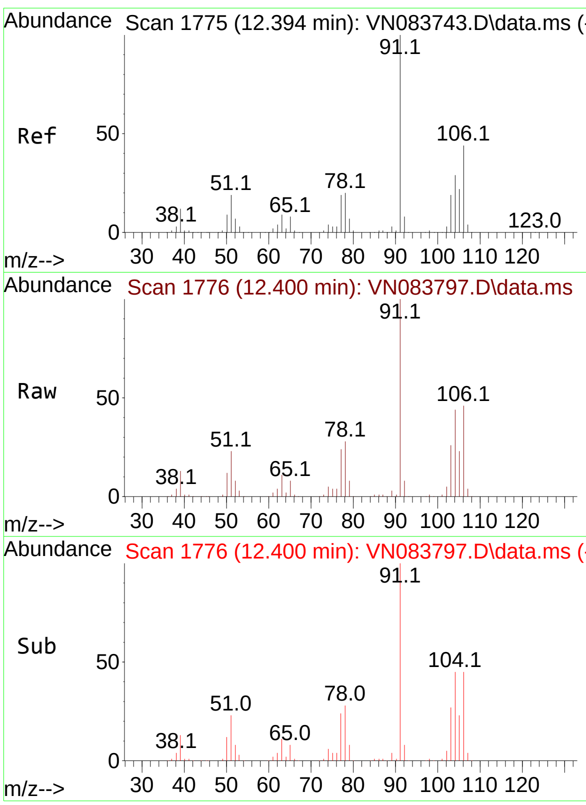
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL




```
#68
m/p-Xylenes
Concen:   11.942 ug/l
RT:  12.070 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   VN083797.D
Acq: 11 Sep 2024  15:33

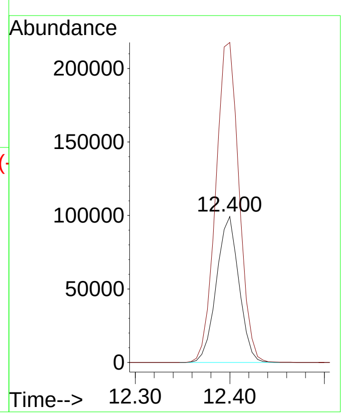
Tgt Ion:106 Resp:   41076
Ion  Ratio  Lower  Upper
106  100
 91  212.2  169.2  253.8
```






```
#69
o-Xylene
Concen:   49.423 ug/l
RT:  12.400 min  Scan# 1776
Delta R.T.  0.006 min
Lab File:   VN083797.D
Acq: 11 Sep 2024  15:33

Tgt Ion:106 Resp:  164570
Ion  Ratio  Lower  Upper
106  100
 91  226.4  112.9  338.6
```



Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

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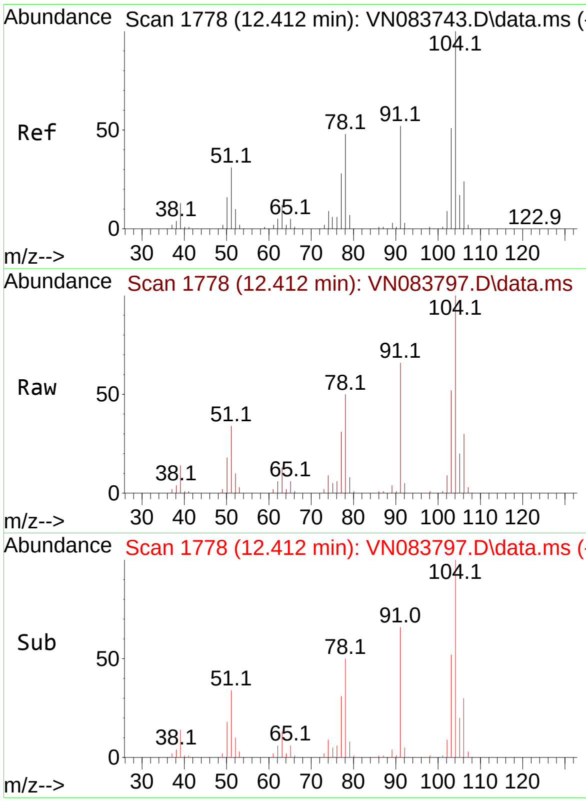
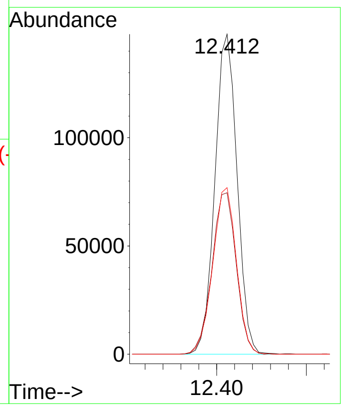
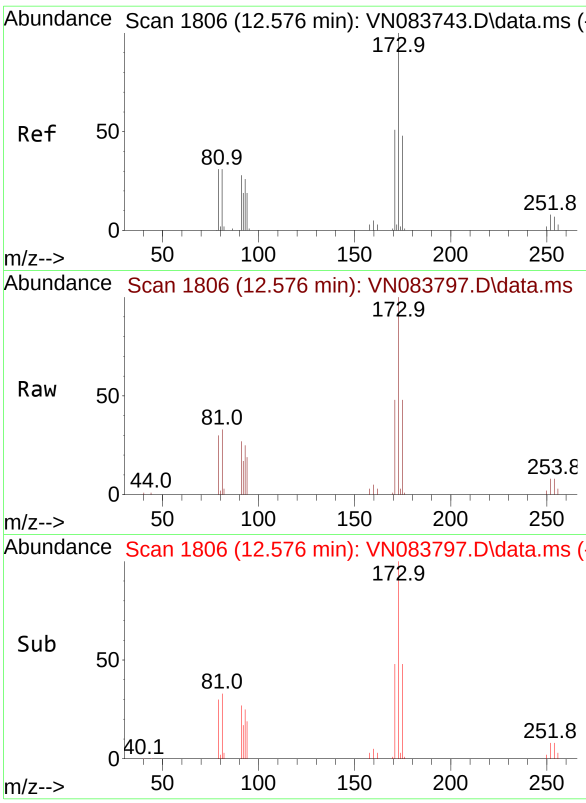


#70
Styrene
Concen: 46.547 ug/l
RT: 12.412 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:104 Resp: 254368

Ion	Ratio	Lower	Upper
104	100		
78	55.2	43.3	64.9
103	55.5	43.4	65.2

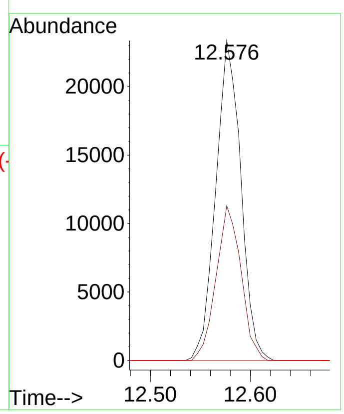




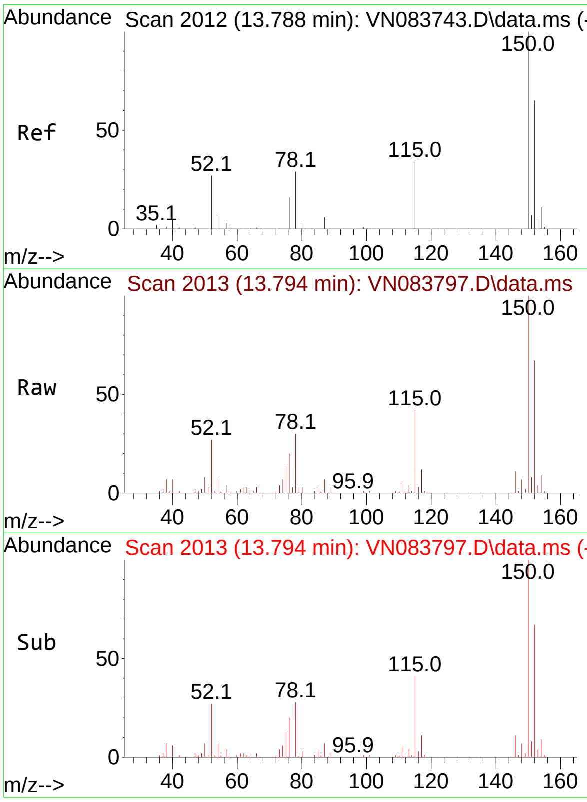
#71
Bromoform
Concen: 33.383 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:173 Resp: 40673

Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.1	72.2
254	0.0	0.0	0.0



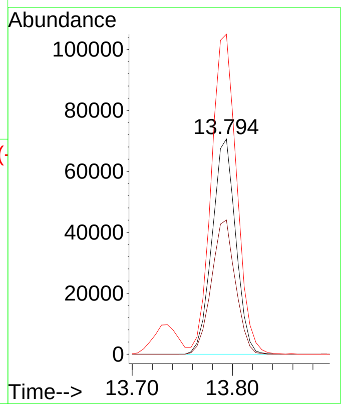
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

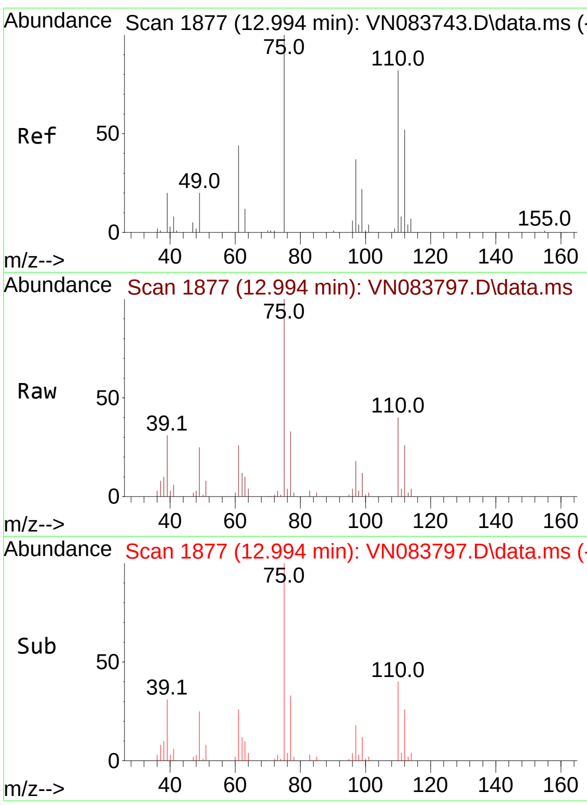


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:152 Resp: 115304

Ion	Ratio	Lower	Upper
152	100		
115	63.2	32.2	96.6
150	160.1	0.0	348.6

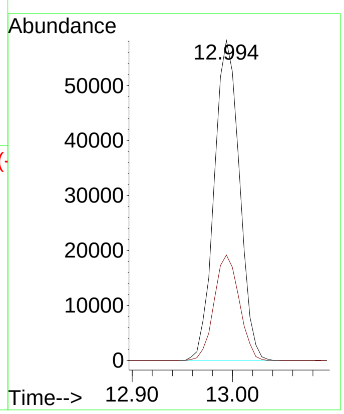




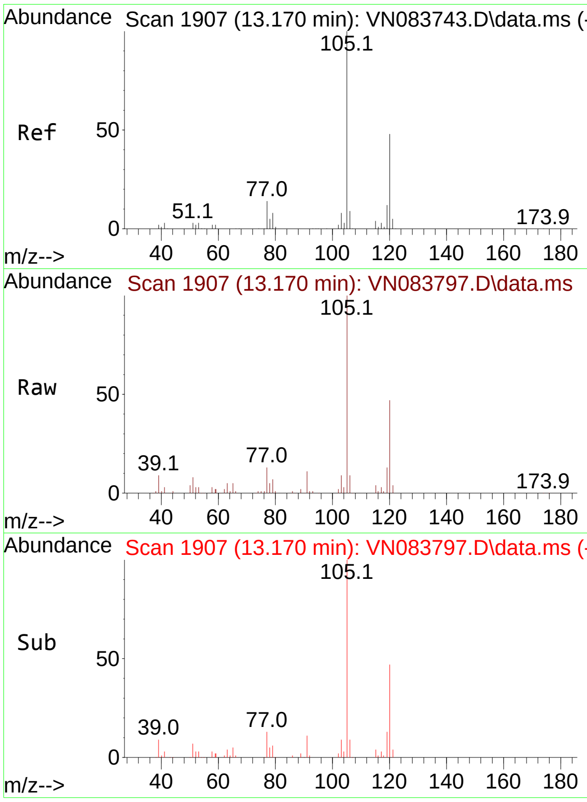
#76
1,2,3-Trichloropropane
Concen: 43.859 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 75 Resp: 102042

Ion	Ratio	Lower	Upper
75	100		
77	32.6	95.2	285.6#



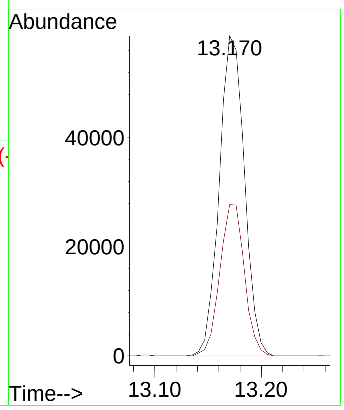
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

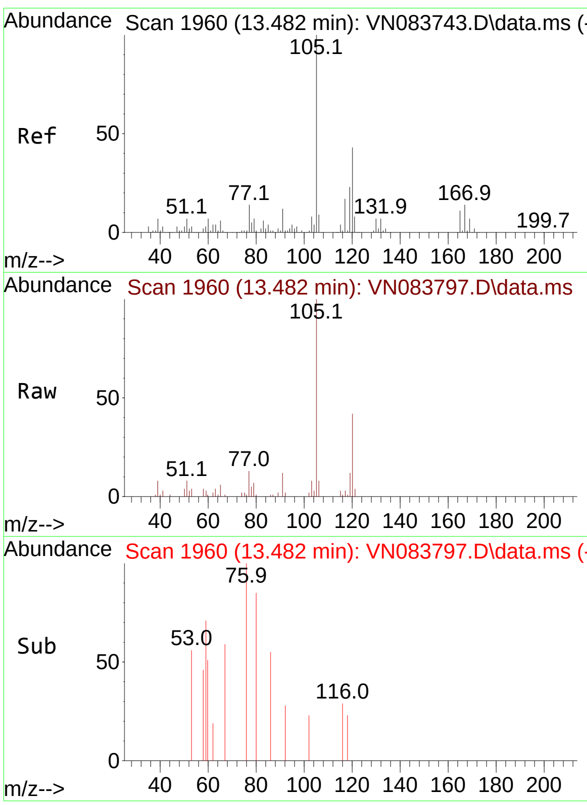


#80
1,3,5-Trimethylbenzene
Concen: 12.837 ug/l
RT: 13.170 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:105 Resp: 96549

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.4	70.3

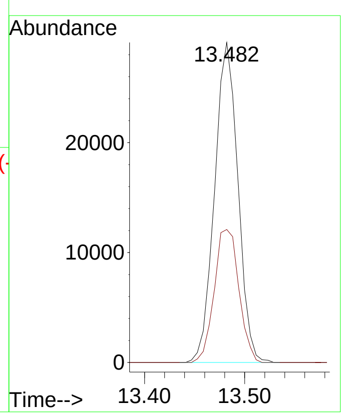




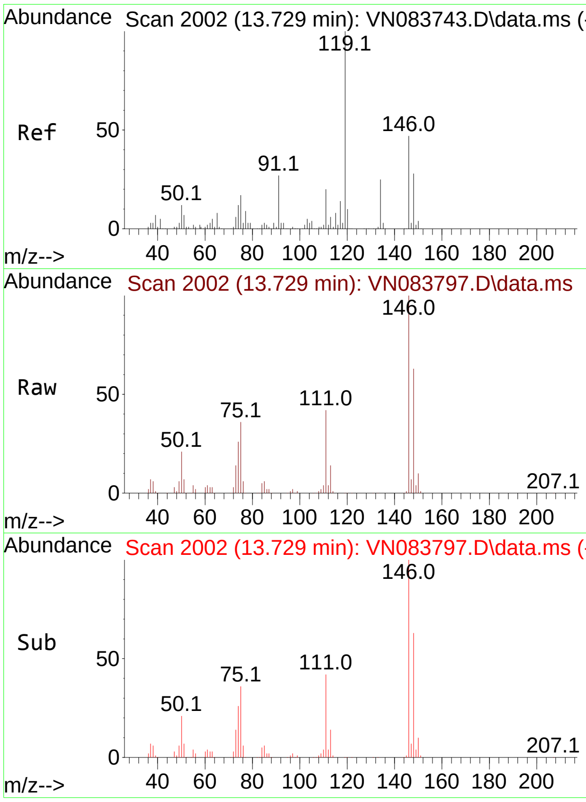
#84
1,2,4-Trimethylbenzene
Concen: 6.241 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:105 Resp: 47147

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.8	65.4



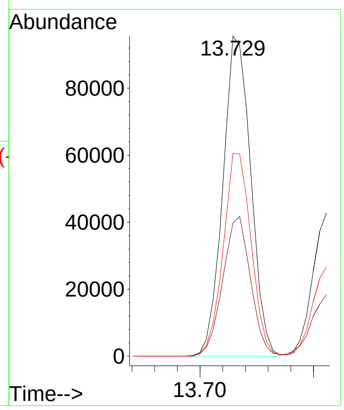
Instrument : MSVOA_N
ClientSampleId : PT-VOA-WPDL

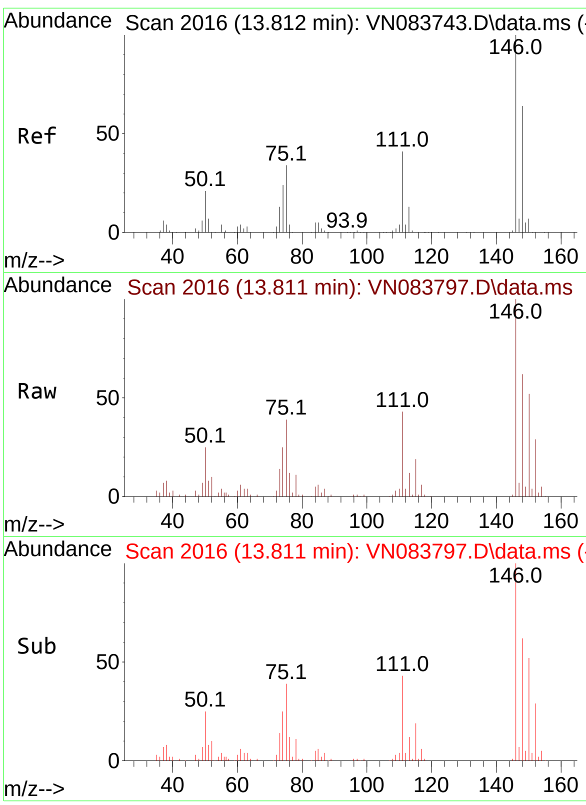


#87
1,3-Dichlorobenzene
Concen: 40.352 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:146 Resp: 163526

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.7	65.1
148	63.4	31.7	95.1

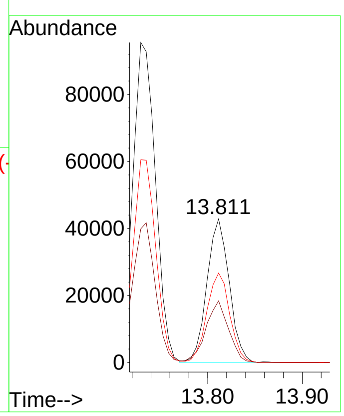




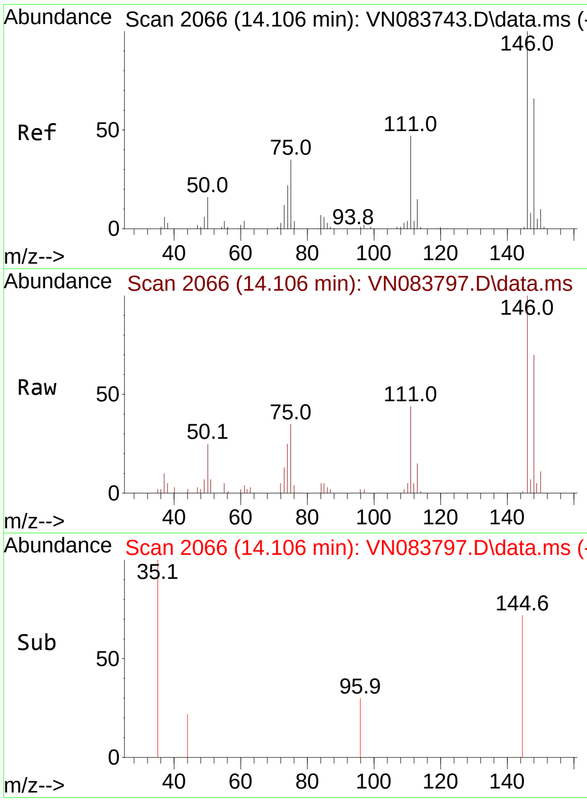
#88
1,4-Dichlorobenzene
Concen: 17.102 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:146 Resp: 70177

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.3	64.0
148	64.0	32.0	96.2



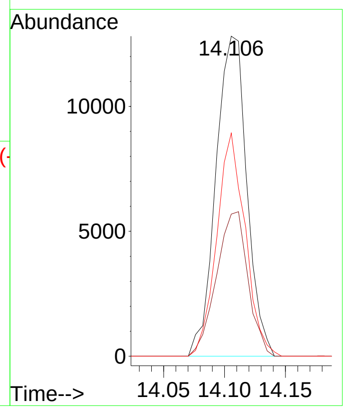
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

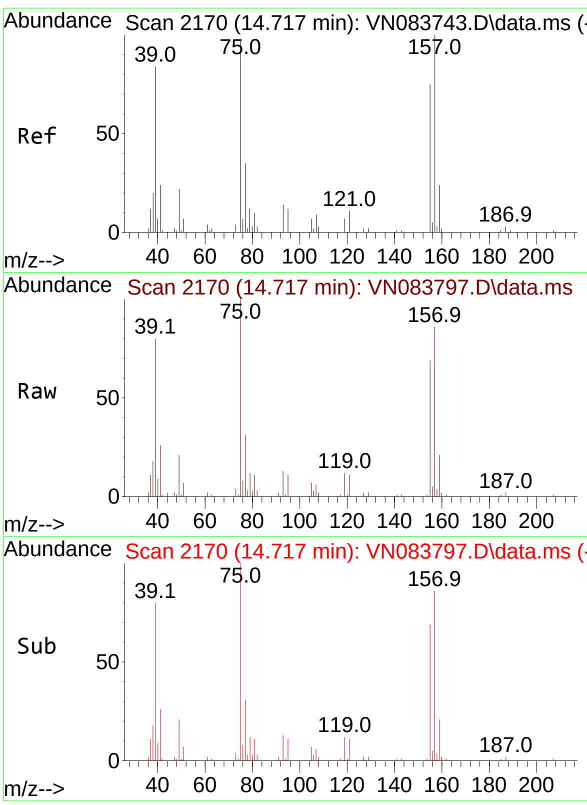


#91
1,2-Dichlorobenzene
Concen: 5.802 ug/l
RT: 14.106 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion:146 Resp: 22690

Ion	Ratio	Lower	Upper
146	100		
111	45.8	22.8	68.3
148	63.9	32.1	96.5

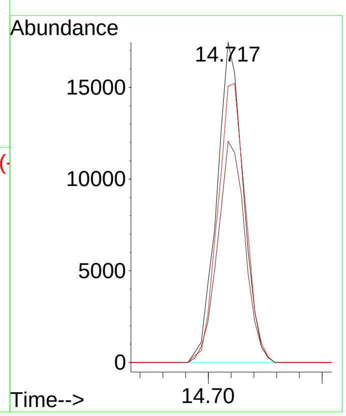


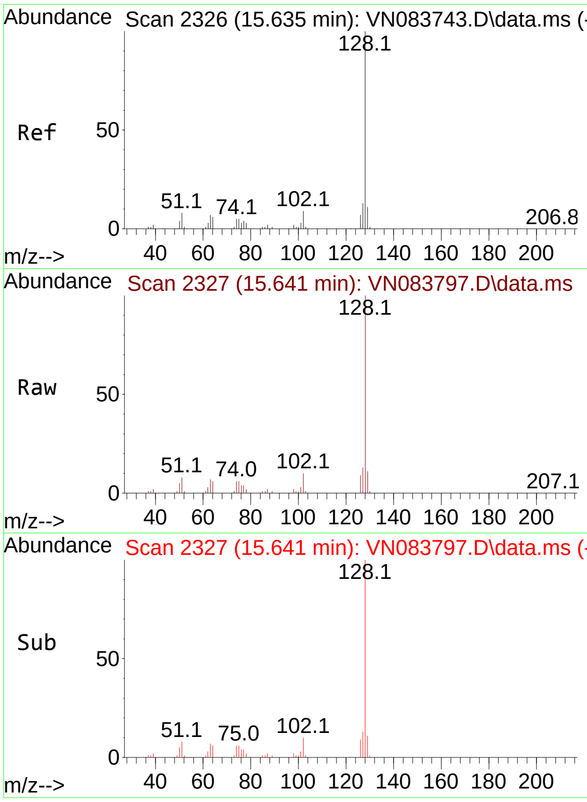


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.085 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Tgt Ion: 75 Resp: 28259

Ion	Ratio	Lower	Upper
75	100		
155	71.9	35.9	107.7
157	91.3	47.5	142.5



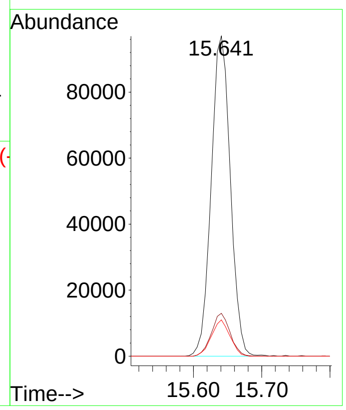


#95
Naphthalene
Concen: 29.704 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083797.D
Acq: 11 Sep 2024 15:33

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

Tgt Ion:128 Resp: 189667

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.2
129	11.0	8.7	13.1



CALIBRATION SUMMARY

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Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

Instrument ID: MSVOA_N Calibration Date(s): 09/10/2024 09/10/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:08 12:43

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

LAB FILE ID: RRF100 = VN083742.D RRF050 = VN083743.D RRF010 = VN083745.D
RRF005 = VN083746.D RRF001 = VN083747.D RRF020 = VN083749.D

COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	RRF	% RSD
Dichlorodifluoromethane	0.566	0.601	0.558	0.551	0.591	0.618	0.581	4.6
Chloromethane	0.573	0.623	0.619	0.657	1.083	0.689	0.707	26.6
Vinyl Chloride	0.591	0.656	0.597	0.619	0.663	0.692	0.636	6.3
Ethyl Acetate	0.432	0.458	0.393	0.429	0.385	0.527	0.437	11.8
Isopropyl Acetate	0.775	0.796	0.688	0.773	0.781	0.942	0.792	10.4
Bromomethane	0.327	0.359	0.339	0.393		0.410	0.365	9.7
Chloroethane	0.380	0.431	0.448	0.464	0.470	0.486	0.446	8.5
Trichlorofluoromethane	0.990	1.065	0.956	1.071	1.167	1.234	1.080	9.7
1,1,2-Trichlorotrifluoroethane	0.547	0.586	0.522	0.580	0.530	0.672	0.573	9.6
Tert butyl alcohol	0.089	0.101	0.089	0.110		0.115	0.101	11.7
Diethyl Ether	0.346	0.367	0.350	0.370	0.321	0.419	0.362	9.1
1,1-Dichloroethene	0.516	0.559	0.476	0.557	0.511	0.626	0.541	9.6
Acrolein	0.088	0.104	0.101	0.111		0.094	0.100	8.9
Acrylonitrile	0.253	0.275	0.243	0.277	0.283	0.316	0.275	9.2
Acetone	0.288	0.297	0.250	0.283	0.299	0.396	0.302	16.3
Carbon Disulfide	1.389	1.530	1.357	1.467	1.703	1.630	1.513	9
Methyl tert-butyl Ether	1.864	2.004	1.768	1.936	1.897	2.272	1.957	8.8
Methyl Acetate	0.607	0.667	0.601	0.751	1.033	0.748	0.735	21.8
Methylene Chloride	0.568	0.609	0.567	0.621	0.643	0.703	0.618	8.3
trans-1,2-Dichloroethene	0.533	0.581	0.522	0.617	0.584	0.640	0.580	8
Vinyl Acetate	1.485	1.546	1.254	1.394	1.310	1.727	1.453	11.9
1,1-Dichloroethane	1.069	1.145	1.014	1.165	1.168	1.295	1.143	8.4
Cyclohexane	0.965	1.017	1.017	1.244		1.206	1.090	11.6
2-Butanone	0.372	0.393	0.336	0.381	0.410	0.491	0.397	13.2
Carbon Tetrachloride	0.541	0.561	0.475	0.544	0.515	0.643	0.547	10.2
2,2-Dichloropropane	1.045	1.093	0.923	0.993	0.998	1.262	1.052	11.2
cis-1,2-Dichloroethene	0.664	0.717	0.621	0.646	0.686	0.795	0.688	9
Chloroform	1.145	1.221	1.081	1.224	1.180	1.428	1.213	9.7
1,1,1-Trichloroethane	1.063	1.137	0.989	1.131	1.081	1.293	1.116	9.1
Methylcyclohexane	0.568	0.573	0.477	0.504	0.507	0.661	0.548	12.2

* 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.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH　　Contract: CHEM02

Lab Code: CHEM　　Case No.: P3845　　SAS No.: P3845　　SDG No.: P3845

Instrument ID: MSVOA_N　　Calibration Date(s): 09/10/2024　09/10/2024

Heated Purge: (Y/N) N　　Calibration Time(s): 09:08　12:43

GC Column: RXI-624　　ID: 0.25 (mm)

LAB FILE ID: RRF100 = VN083742.D　RRF050 = VN083743.D　RRF010 = VN083745.D
RRF005 = VN083746.D　RRF001 = VN083747.D　RRF020 = VN083749.D

COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	$\overline{RRF}$	% RSD
1,1-Dichloropropene	0.471	0.472	0.416	0.472	0.503	0.556	0.482	9.5
Benzene	1.400	1.441	1.284	1.386	1.450	1.740	1.450	10.6
1,2-Dichloroethane	0.523	0.546	0.495	0.534	0.497	0.656	0.542	11
Trichloroethene	0.323	0.340	0.300	0.306	0.354	0.392	0.336	10.2
1,2-Dichloropropane	0.338	0.349	0.303	0.345	0.339	0.428	0.350	11.9
Dibromomethane	0.242	0.254	0.221	0.246	0.213	0.298	0.245	12.2
Bromodichloromethane	0.536	0.549	0.461	0.512	0.493	0.636	0.531	11.3
4-Methyl-2-Pentanone	0.424	0.443	0.379	0.416	0.405	0.521	0.431	11.3
Toluene	0.883	0.908	0.773	0.878	0.820	1.060	0.887	11.1
t-1,3-Dichloropropene	0.550	0.559	0.467	0.510	0.519	0.626	0.539	10
cis-1,3-Dichloropropene	0.574	0.586	0.511	0.533	0.510	0.680	0.566	11.4
1,1,2-Trichloroethane	0.315	0.328	0.289	0.323	0.345	0.387	0.331	10
1,3-Dichloropropane	0.557	0.576	0.505	0.583	0.512	0.682	0.569	11.3
2-Chloroethyl Vinyl ether	0.245	0.173	0.177	0.176	0.142	0.187	0.184	18.3
2-Hexanone	0.315	0.329	0.276	0.312	0.277	0.405	0.319	14.8
Dibromochloromethane	0.378	0.392	0.335	0.342	0.337	0.440	0.371	11.1
1,2-Dibromoethane	0.324	0.332	0.285	0.309	0.342	0.391	0.330	10.8
Tetrachloroethene	0.313	0.321	0.302	0.340	0.341	0.377	0.333	8
Chlorobenzene	1.046	1.091	0.973	1.105	1.196	1.257	1.111	9.2
1,1,1,2-Tetrachloroethane	0.375	0.394	0.350	0.367	0.381	0.445	0.385	8.6
Hexachloroethane	0.608	0.642	0.593	0.626	0.699	0.658	0.638	6
Ethyl Benzene	1.985	2.029	1.747	1.889	1.913	2.281	1.974	9
m/p-Xylenes	0.734	0.754	0.652	0.688	0.713	0.856	0.733	9.6
o-Xylene	0.707	0.740	0.654	0.668	0.657	0.831	0.710	9.6
Styrene	1.208	1.244	1.008	1.072	1.100	1.354	1.164	11
Bromoform	0.272	0.278	0.226	0.257	0.223	0.301	0.260	11.8
Isopropylbenzene	3.835	4.076	3.596	3.808	3.759	4.135	3.868	5.2
1,1,2,2-Tetrachloroethane	1.015	1.095	1.064	1.181	1.298	1.165	1.137	8.9
1,2,3-Trichloropropane	0.876	0.942	0.897	1.033	1.124	1.032	0.984	9.7
Bromobenzene	0.841	0.899	0.884	0.947	1.086	0.930	0.931	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.

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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

Instrument ID: MSVOA_N Calibration Date(s): 09/10/2024 09/10/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:08 12:43

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

LAB FILE ID: RRF100 = VN083742.D RRF050 = VN083743.D RRF010 = VN083745.D
RRF005 = VN083746.D RRF001 = VN083747.D RRF020 = VN083749.D

COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	$\overline{RRF}$	% RSD
n-propylbenzene	4.516	4.759	4.074	4.320	4.560	4.776	4.501	6
2-Chlorotoluene	2.700	2.893	2.717	2.887	2.959	3.067	2.870	4.9
1,3,5-Trimethylbenzene	3.204	3.419	3.028	3.122	3.309	3.486	3.261	5.4
4-Chlorotoluene	2.723	2.948	2.670	2.953	2.990	2.998	2.880	5
tert-Butylbenzene	2.796	3.014	2.627	2.726	2.890	3.067	2.853	5.9
1,2,4-Trimethylbenzene	3.225	3.483	3.059	3.184	3.217	3.488	3.276	5.3
sec-Butylbenzene	3.856	4.084	3.438	3.734	3.487	4.106	3.784	7.6
p-Isopropyltoluene	3.237	3.448	2.828	3.128	3.043	3.348	3.172	7
1,3-Dichlorobenzene	1.577	1.741	1.591	1.785	2.096	1.754	1.757	10.7
1,4-Dichlorobenzene	1.586	1.741	1.654	1.824	2.154	1.718	1.779	11.3
n-Butylbenzene	2.866	3.002	2.554	2.687	3.059	2.920	2.848	6.8
1,2-Dichlorobenzene	1.571	1.688	1.543	1.774	1.860	1.740	1.696	7.2
1,2-Dibromo-3-Chloropropane	0.219	0.237	0.214	0.233	0.220	0.237	0.227	4.5
1,2,4-Trichlorobenzene	0.861	0.932	0.848	0.907	1.038	0.875	0.910	7.7
Hexachlorobutadiene	0.352	0.374	0.362	0.373	0.461	0.397	0.386	10.3
Naphthalene	2.727	3.016	2.594	2.782	2.808	2.686	2.769	5.2
1,2,3-Trichlorobenzene	0.815	0.895	0.813	0.875	0.981	0.840	0.870	7.3
1,2-Dichloroethane-d4	0.745	0.849	0.846	0.599		0.732	0.754	13.6
Dibromofluoromethane	0.316	0.340	0.340	0.284		0.321	0.320	7.2
Toluene-d8	1.172	1.271	1.199	0.761		1.130	1.107	18.1
4-Bromofluorobenzene	0.448	0.488	0.458	0.386		0.503	0.457	9.9
N-amyl acetate	1.631	1.739	1.482	1.618	1.687	1.745	1.650	5.9
Allyl chloride	0.934	0.999	0.906	0.913	0.922	1.107	0.964	8.1
trans-1,4-Dichloro-2-butene	0.387	0.411	0.319	0.419		0.390	0.385	10.3
Methacrylonitrile	0.260	0.264	0.211	0.239	0.278	0.299	0.259	11.8
1,4-Dioxane	5.603	6.006	5.432	5.857	7.009	7.204	6.185	12
Methyl methacrylate	0.372	0.378	0.328	0.364	0.364	0.450	0.376	10.7

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

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N091024W.M
Title : SW846 8260
Last Update : Wed Sep 11 15:18:56 2024
Response Via : Initial Calibration

Calibration Files
1 =VN083747.D 5 =VN083746.D 10 =VN083745.D 20 =VN083749.D 50 =VN083743.D 100 =VN083742.D

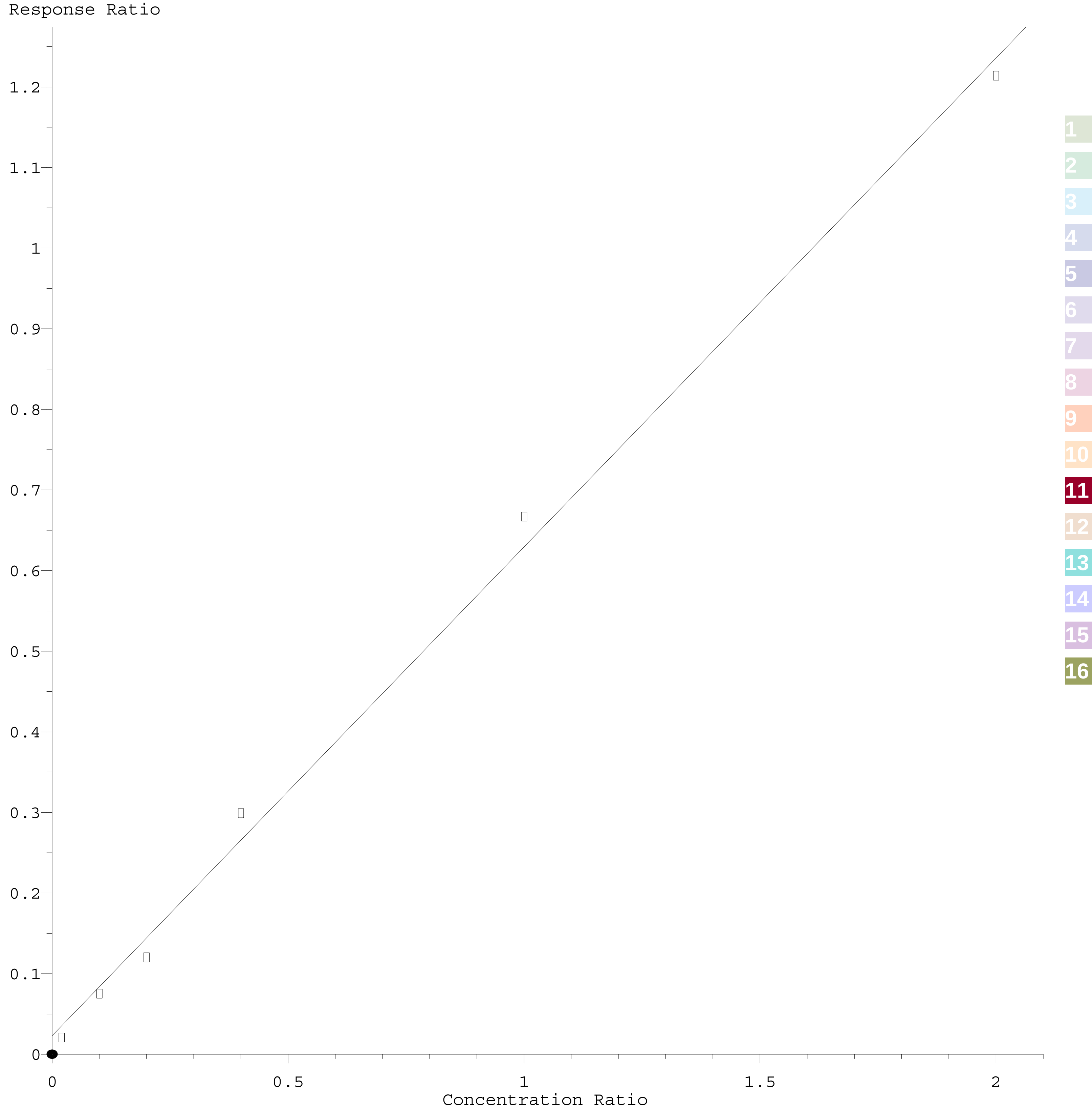
		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------------ISTD--------------------							
2)	T	Dichlorodifluo...	0.591	0.551	0.558	0.618	0.601	0.566	0.581	4.55
3)	P	Chloromethane	1.083	0.657	0.619	0.689	0.623	0.573	0.707	26.59
4)	C	Vinyl Chloride	0.663	0.619	0.597	0.692	0.656	0.591	0.636	6.32#
5)	T	Bromomethane		0.393	0.339	0.410	0.359	0.327	0.365	9.65
6)	T	Chloroethane	0.470	0.464	0.448	0.486	0.431	0.380	0.446	8.48
7)	T	Trichlorofluor...	1.167	1.071	0.956	1.234	1.065	0.990	1.080	9.73
8)	T	Diethyl Ether	0.321	0.370	0.350	0.419	0.367	0.346	0.362	9.10
9)	T	1,1,2-Trichlor...	0.530	0.580	0.522	0.672	0.586	0.547	0.573	9.63
10)	T	Methyl Iodide		0.717	0.649	0.820	0.759	0.697	0.728	8.87
11)	T	Tert butyl alc...		0.110	0.089	0.115	0.101	0.089	0.101	11.71
12)	CM	1,1-Dichloroet...	0.511	0.557	0.476	0.626	0.559	0.516	0.541	9.64#
13)	T	Acrolein		0.111	0.101	0.094	0.104	0.088	0.100	8.89
14)	T	Allyl chloride	0.922	0.913	0.906	1.107	0.999	0.934	0.964	8.09
15)	T	Acrylonitrile	0.283	0.277	0.243	0.316	0.275	0.253	0.275	9.19
16)	T	Acetone	0.299	0.283	0.250	0.396	0.297	0.288	0.302	16.34
17)	T	Carbon Disulfide	1.703	1.467	1.357	1.630	1.530	1.389	1.513	8.95
18)	T	Methyl Acetate	1.033	0.751	0.601	0.748	0.667	0.607	0.735	21.82
19)	T	Methyl tert-bu...	1.897	1.936	1.768	2.272	2.004	1.864	1.957	8.84
20)	T	Methylene Chlo...	0.643	0.621	0.567	0.703	0.609	0.568	0.618	8.25
21)	T	trans-1,2-Dich...	0.584	0.617	0.522	0.640	0.581	0.533	0.580	7.95
22)	T	Diisopropyl ether	1.858	1.960	1.788	2.305	2.054	1.936	1.984	9.15
23)	T	Vinyl Acetate	1.310	1.394	1.254	1.727	1.546	1.485	1.453	11.86
24)	P	1,1-Dichloroet...	1.168	1.165	1.014	1.295	1.145	1.069	1.143	8.42
25)	T	2-Butanone	0.410	0.381	0.336	0.491	0.393	0.372	0.397	13.16
26)	T	2,2-Dichloropr...	0.998	0.993	0.923	1.262	1.093	1.045	1.052	11.17
27)	T	cis-1,2-Dichlo...	0.686	0.646	0.621	0.795	0.717	0.664	0.688	8.97
28)	T	Bromochloromet...	0.420	0.538	0.474	0.454	0.525	0.477	0.481	9.10
29)	T	Tetrahydrofuran	0.230	0.231	0.211	0.274	0.242	0.223	0.235	9.23
30)	C	Chloroform	1.180	1.224	1.081	1.428	1.221	1.145	1.213	9.72#
31)	T	Cyclohexane		1.244	1.017	1.206	1.017	0.965	1.090	11.56
32)	T	1,1,1-Trichlor...	1.081	1.131	0.989	1.293	1.137	1.063	1.116	9.14
33)	S	1,2-Dichloroet...		0.599	0.846	0.732	0.849	0.745	0.754	13.63
34)	I	1,4-Difluorobenzene	----------------ISTD--------------------							
35)	S	Dibromofluorom...		0.284	0.340	0.321	0.340	0.316	0.320	7.19
36)	T	1,1-Dichloropr...	0.503	0.472	0.416	0.556	0.472	0.471	0.482	9.54
37)	T	Ethyl Acetate	0.385	0.429	0.393	0.527	0.458	0.432	0.437	11.75
38)	T	Carbon Tetrach...	0.515	0.544	0.475	0.643	0.561	0.541	0.547	10.24
39)	T	Methylcyclohexane	0.507	0.504	0.477	0.661	0.573	0.568	0.548	12.24
40)	TM	Benzene	1.450	1.386	1.284	1.740	1.441	1.400	1.450	10.60
41)	T	Methacrylonitrile	0.278	0.239	0.211	0.299	0.264	0.260	0.259	11.84
42)	TM	1,2-Dichloroet...	0.497	0.534	0.495	0.656	0.546	0.523	0.542	10.97
43)	T	Isopropyl Acetate	0.781	0.773	0.688	0.942	0.796	0.775	0.792	10.43
44)	TM	Trichloroethene	0.354	0.306	0.300	0.392	0.340	0.323	0.336	10.22
45)	C	1,2-Dichloropr...	0.339	0.345	0.303	0.428	0.349	0.338	0.350	11.85#
46)	T	Dibromomethane	0.213	0.246	0.221	0.298	0.254	0.242	0.245	12.22
47)	T	Bromodichlorom...	0.493	0.512	0.461	0.636	0.549	0.536	0.531	11.32
48)	T	Methyl methacr...	0.364	0.364	0.328	0.450	0.378	0.372	0.376	10.68
49)	T	1,4-Dioxane	0.007	0.006	0.005	0.007	0.006	0.006	0.006	12.02
50)	S	Toluene-d8		0.761	1.199	1.130	1.271	1.172	1.107	18.06
51)	T	4-Methyl-2-Pen...	0.405	0.416	0.379	0.521	0.443	0.424	0.431	11.29
52)	CM	Toluene	0.820	0.878	0.773	1.060	0.908	0.883	0.887	11.07#
53)	T	t-1,3-Dichloro...	0.519	0.510	0.467	0.626	0.559	0.550	0.539	10.04
54)	T	cis-1,3-Dichlo...	0.510	0.533	0.511	0.680	0.586	0.574	0.566	11.38
55)	T	1,1,2-Trichlor...	0.345	0.323	0.289	0.387	0.328	0.315	0.331	9.98
56)	T	Ethyl methacry...	0.423	0.475	0.439	0.626	0.557	0.537	0.509	15.23

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N091024W.M

57)	T	1,3-Dichloropr...	0.512	0.583	0.505	0.682	0.576	0.557	0.569	11.26
58)	T	2-Chloroethyl ...	0.142	0.176	0.177	0.187	0.173	0.245	0.184	18.30
59)	T	2-Hexanone	0.277	0.312	0.276	0.405	0.329	0.315	0.319	14.75
60)	T	Dibromochlorom...	0.337	0.342	0.335	0.440	0.392	0.378	0.371	11.13
61)	T	1,2-Dibromoethane	0.342	0.309	0.285	0.391	0.332	0.324	0.330	10.82
62)	S	4-Bromofluorob...		0.386	0.458	0.503	0.488	0.448	0.457	9.93
63)	I	Chlorobenzene-d5	----------------ISTD--------------------							
64)	T	Tetrachloroethene	0.341	0.340	0.302	0.377	0.321	0.313	0.333	8.01
65)	PM	Chlorobenzene	1.196	1.105	0.973	1.257	1.091	1.046	1.111	9.20
66)	T	1,1,1,2-Tetrac...	0.381	0.367	0.350	0.445	0.394	0.375	0.385	8.55
67)	C	Ethyl Benzene	1.913	1.889	1.747	2.281	2.029	1.985	1.974	9.05#
68)	T	m/p-Xylenes	0.713	0.688	0.652	0.856	0.754	0.734	0.733	9.58
69)	T	o-Xylene	0.657	0.668	0.654	0.831	0.740	0.707	0.710	9.63
70)	T	Styrene	1.100	1.072	1.008	1.354	1.244	1.208	1.164	10.95
71)	P	Bromoform	0.223	0.257	0.226	0.301	0.278	0.272	0.260	11.78
72)	I	1,4-Dichlorobenzen...	----------------ISTD--------------------							
73)	T	Isopropylbenzene	3.759	3.808	3.596	4.135	4.076	3.835	3.868	5.24
74)	T	N-amyl acetate	1.687	1.618	1.482	1.745	1.739	1.631	1.650	5.92
75)	P	1,1,2,2-Tetrac...	1.298	1.181	1.064	1.165	1.095	1.015	1.137	8.86
76)	T	1,2,3-Trichlor...	1.124	1.033	0.897	1.041	0.950	1.008	1.009	7.79
77)	T	Bromobenzene	1.086	0.947	0.884	0.930	0.899	0.841	0.931	9.09
78)	T	n-propylbenzene	4.560	4.320	4.074	4.776	4.759	4.516	4.501	5.97
79)	T	2-Chlorotoluene	2.959	2.887	2.717	3.067	2.893	2.700	2.870	4.93
80)	T	1,3,5-Trimethy...	3.309	3.122	3.028	3.486	3.419	3.204	3.261	5.39
81)	T	trans-1,4-Dich...		0.419	0.319	0.390	0.411	0.387	0.385	10.29
82)	T	4-Chlorotoluene	2.990	2.953	2.670	2.998	2.948	2.723	2.880	5.03
83)	T	tert-Butylbenzene	2.890	2.726	2.627	3.067	3.014	2.796	2.853	5.94
84)	T	1,2,4-Trimethy...	3.217	3.184	3.059	3.488	3.483	3.225	3.276	5.28
85)	T	sec-Butylbenzene	3.487	3.734	3.438	4.106	4.084	3.856	3.784	7.56
86)	T	p-Isopropyltol...	3.043	3.128	2.828	3.348	3.448	3.237	3.172	7.02
87)	T	1,3-Dichlorobe...	2.096	1.785	1.591	1.754	1.741	1.577	1.757	10.66
88)	T	1,4-Dichlorobe...	2.154	1.824	1.654	1.718	1.741	1.586	1.779	11.26
89)	T	n-Butylbenzene	3.059	2.687	2.554	2.920	3.002	2.866	2.848	6.77
90)	T	Hexachloroethane	0.699	0.626	0.593	0.658	0.642	0.608	0.638	5.97
91)	T	1,2-Dichlorobe...	1.860	1.774	1.543	1.740	1.688	1.571	1.696	7.19
92)	T	1,2-Dibromo-3-...	0.220	0.233	0.214	0.237	0.237	0.219	0.227	4.47
93)	T	1,2,4-Trichlor...	1.038	0.907	0.848	0.875	0.932	0.861	0.910	7.67
94)	T	Hexachlorobuta...	0.461	0.373	0.362	0.397	0.374	0.352	0.386	10.25
95)	T	Naphthalene	2.808	2.782	2.594	2.686	3.016	2.727	2.769	5.16
96)	T	1,2,3-Trichlor...	0.981	0.875	0.813	0.840	0.895	0.815	0.870	7.31

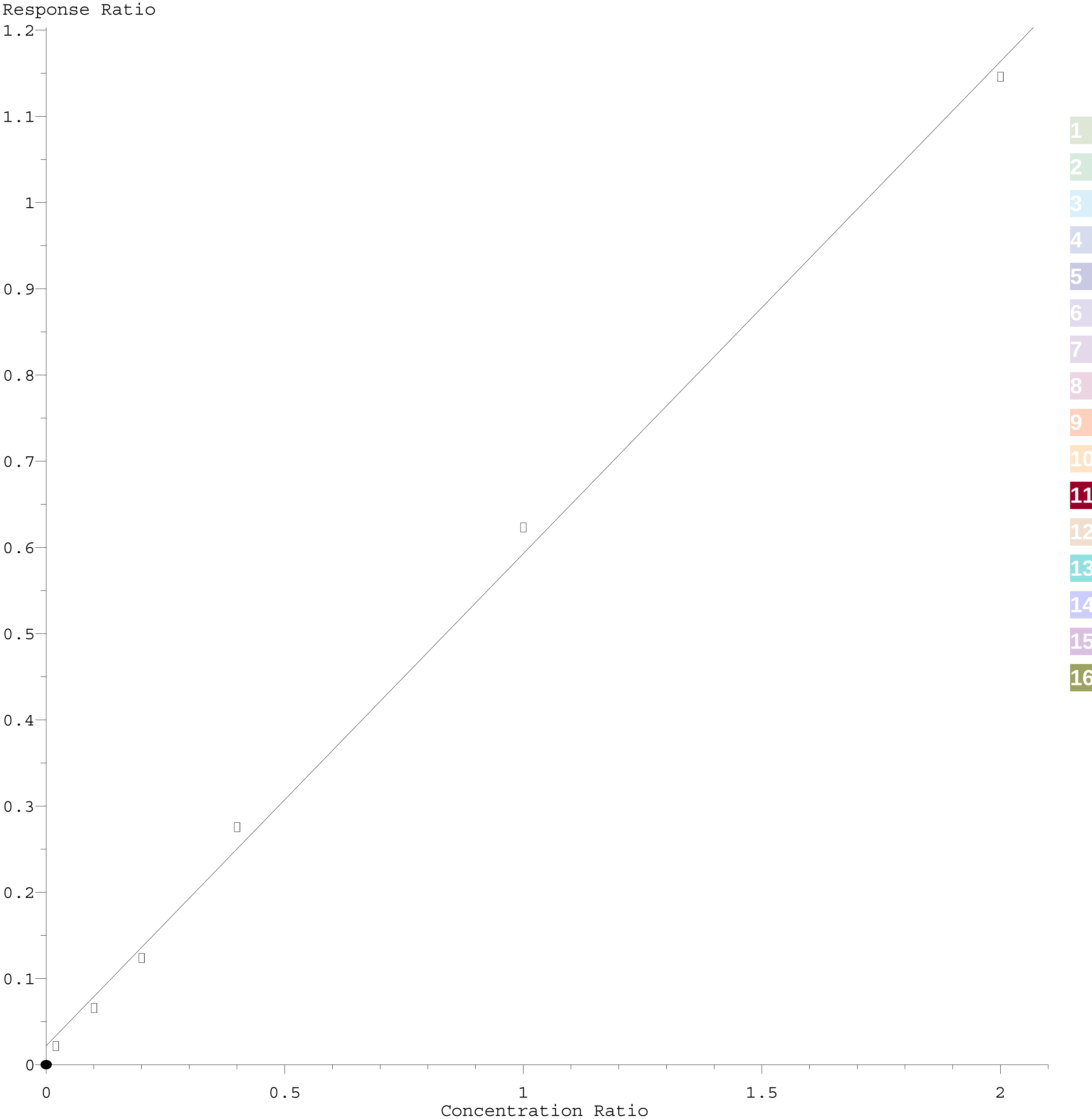
(#) = Out of Range

Methyl Acetate



Response = 6.063e-001 * Amt + 2.337e-002
Coef of Det (r^2) = 0.996387   Curve Fit: Linear
Method Name: Z:\mvoasrv\HPCHEM1\MSVOA N\methods\82N091024W.M
P3845 VOC MS Group1
Calibration Table Last Updated: Wed Sep 11 15:18:56 2024

Chloromethane



Response = 5.711e-001 * Amt + 2.189e-002
Coef of Det (r^2) = 0.997537   Curve Fit: Linear
Method Name: Z:\vocsrv\HPCHEM1\MSVOA N\methods\82N091024W.M
P3845VOC:MSZ:Group1
Calibration Table Last Updated: Wed Sep 11 15:18:56 2024

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083742.D
Acq On : 10 Sep 2024 09:08
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:53:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	179260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	305334	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	267844	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131982	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	266987	98.775	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 197.540%#			
35) Dibromofluoromethane	8.159	113	192905	98.687	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 197.380%#			
50) Toluene-d8	10.565	98	715598	105.896	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 211.800%#			
62) 4-Bromofluorobenzene	12.847	95	273293	98.025	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 196.040%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	202748	97.390	ug/l	99
3) Chloromethane	2.359	50	205418	98.414	ug/l	97
4) Vinyl Chloride	2.518	62	211906	92.865	ug/l	98
5) Bromomethane	2.906	94	117285	89.520	ug/l	99
6) Chloroethane	3.077	64	136074	85.956	ug/l	97
7) Trichlorofluoromethane	3.471	101	354762	91.591	ug/l	99
8) Diethyl Ether	3.953	74	124053	95.544	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	195938	95.438	ug/l	98
10) Methyl Iodide	4.577	142	249832	95.682	ug/l	96
11) Tert butyl alcohol	5.536	59	159849	441.627	ug/l	100
12) 1,1-Dichloroethene	4.324	96	185025	95.429	ug/l	93
13) Acrolein	4.171	56	158000	442.417	ug/l	99
14) Allyl chloride	5.012	41	334937	96.948	ug/l	98
15) Acrylonitrile	5.718	53	454054	461.277	ug/l	99
16) Acetone	4.424	43	515707	475.936	ug/l	98
17) Carbon Disulfide	4.700	76	497982	91.817	ug/l	100
18) Methyl Acetate	5.018	43	217598	98.170	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	668351	95.259	ug/l	100
20) Methylene Chloride	5.271	84	203805	91.913	ug/l	92
21) trans-1,2-Dichloroethene	5.783	96	191098	91.967	ug/l	95
22) Diisopropyl ether	6.665	45	694175	97.608	ug/l	99
23) Vinyl Acetate	6.600	43	2661752	511.076	ug/l	99
24) 1,1-Dichloroethane	6.565	63	383257	93.539	ug/l	99
25) 2-Butanone	7.483	43	667006	468.347	ug/l	99
26) 2,2-Dichloropropane	7.483	77	374693	99.301	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	237908	96.450	ug/l	100
28) Bromochloromethane	7.812	49	171038	99.126	ug/l	97
29) Tetrahydrofuran	7.835	42	398869	473.660	ug/l	99
30) Chloroform	7.965	83	410584	94.390	ug/l	100
31) Cyclohexane	8.253	56	346019	88.574	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	380933	95.240	ug/l	99
36) 1,1-Dichloropropene	8.365	75	287609	97.756	ug/l	99
37) Ethyl Acetate	7.559	43	263623	98.714	ug/l	98
38) Carbon Tetrachloride	8.359	117	330457	99.004	ug/l	99
39) Methylcyclohexane	9.600	83	346860	103.576	ug/l	99
40) Benzene	8.600	78	854656	96.512	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083742.D
Acq On : 10 Sep 2024 09:08
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:53:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	158600	100.410 ug/l	97
42) 1,2-Dichloroethane	8.665	62	319551	96.572 ug/l	99
43) Isopropyl Acetate	8.688	43	473198	97.780 ug/l	97
44) Trichloroethene	9.347	130	197536	96.327 ug/l	93
45) 1,2-Dichloropropane	9.618	63	206374	96.423 ug/l	100
46) Dibromomethane	9.706	93	147957	98.695 ug/l	99
47) Bromodichloromethane	9.888	83	327336	100.891 ug/l	98
48) Methyl methacrylate	9.677	41	227071	98.898 ug/l	98
49) 1,4-Dioxane	9.694	88	68427	1811.632 ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	1295313	491.701 ug/l	99
52) Toluene	10.629	92	539024	99.513 ug/l	98
53) t-1,3-Dichloropropene	10.835	75	335958	102.158 ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	350699	101.521 ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	192101	94.997 ug/l	99
56) Ethyl methacrylate	10.871	69	327895	105.392 ug/l	99
57) 1,3-Dichloropropane	11.159	76	340321	97.921 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	747188	666.516 ug/l	97
59) 2-Hexanone	11.194	43	963063	494.210 ug/l	99
60) Dibromochloromethane	11.359	129	230885	102.022 ug/l	100
61) 1,2-Dibromoethane	11.471	107	197595	97.978 ug/l	99
64) Tetrachloroethene	11.106	164	167917	94.271 ug/l	97
65) Chlorobenzene	11.888	112	560440	94.145 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	201130	97.460 ug/l	99
67) Ethyl Benzene	11.965	91	1063437	100.561 ug/l	98
68) m/p-Xylenes	12.070	106	786134	200.232 ug/l	99
69) o-Xylene	12.394	106	378786	99.660 ug/l	99
70) Styrene	12.412	104	646938	103.715 ug/l	100
71) Bromoform	12.576	173	145739	104.798 ug/l #	100
73) Isopropylbenzene	12.694	105	1012206	99.129 ug/l	99
74) N-amyl acetate	12.494	43	430629	98.846 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	268013	89.333 ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	231193m	86.812 ug/l	
77) Bromobenzene	12.976	156	221922	90.289 ug/l	99
78) n-propylbenzene	13.035	91	1192155	100.345 ug/l	99
79) 2-Chlorotoluene	13.123	91	712679	94.060 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	845837	98.252 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	102156	100.466 ug/l	96
82) 4-Chlorotoluene	13.217	91	718771	94.532 ug/l	99
83) tert-Butylbenzene	13.435	119	738032	97.989 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	851267	98.439 ug/l	100
85) sec-Butylbenzene	13.617	105	1017747	101.889 ug/l	100
86) p-Isopropyltoluene	13.729	119	854481	102.048 ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	416366	89.760 ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	418608	89.123 ug/l	99
89) n-Butylbenzene	14.053	91	756542	100.632 ug/l	100
90) Hexachloroethane	14.335	117	160428	95.312 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	414582	92.608 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	57895	96.804 ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	227276	94.607 ug/l	99
94) Hexachlorobutadiene	15.500	225	93025	91.182 ug/l	99
95) Naphthalene	15.641	128	719851	98.492 ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	215058	93.670 ug/l	100

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Quantitation Report (QT Reviewed)

ICAL Form

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083742.D
Acq On    : 10 Sep 2024  09:08
Operator  : JC\MD
Sample    : VSTDICC100
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Sep 11 01:53:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title  : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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Supervised By :Semsettin Yesilyurt 09/11/2024

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

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

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Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083742.D
Acq On : 10 Sep 2024 09:08
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 11 01:53:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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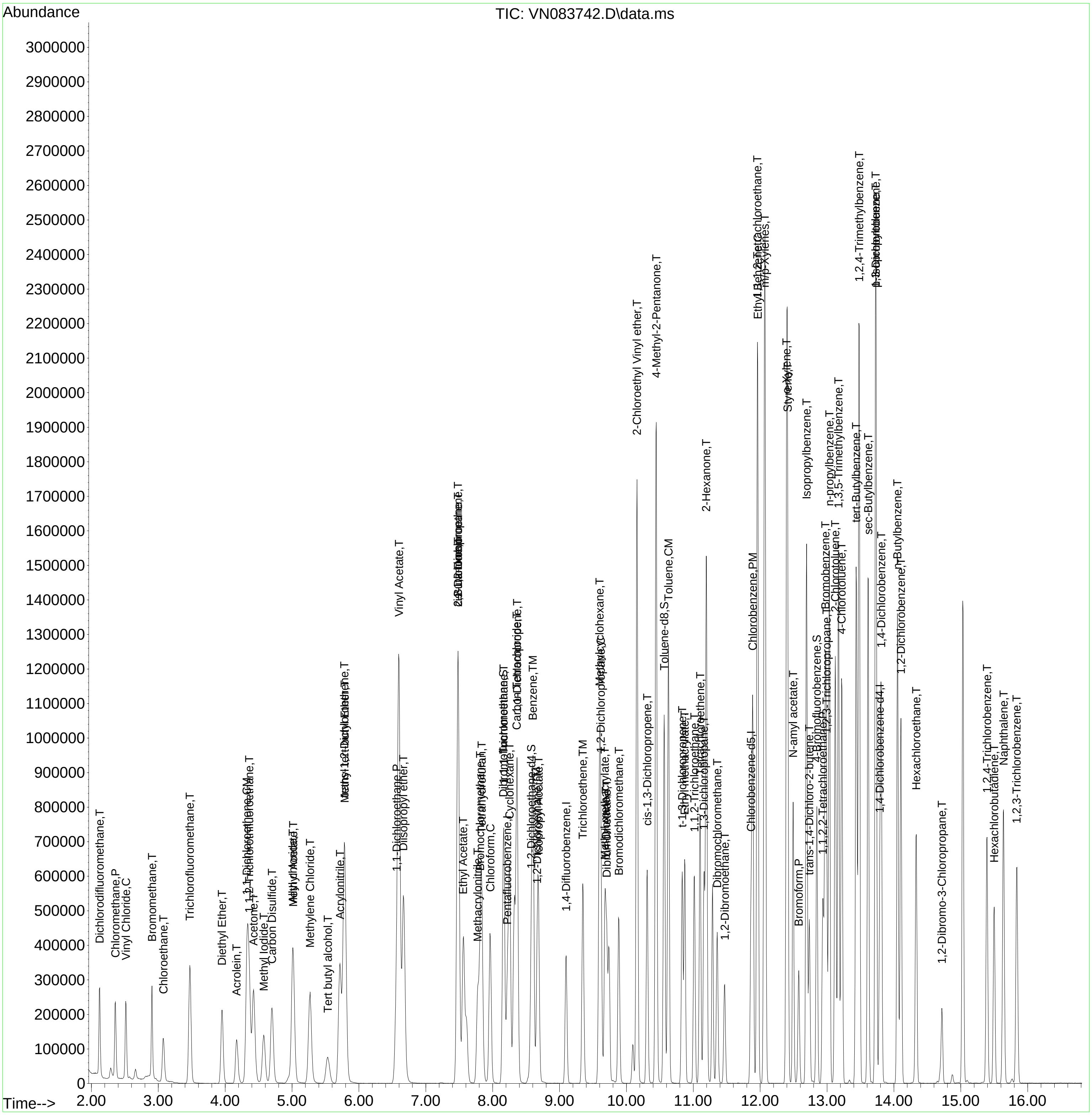
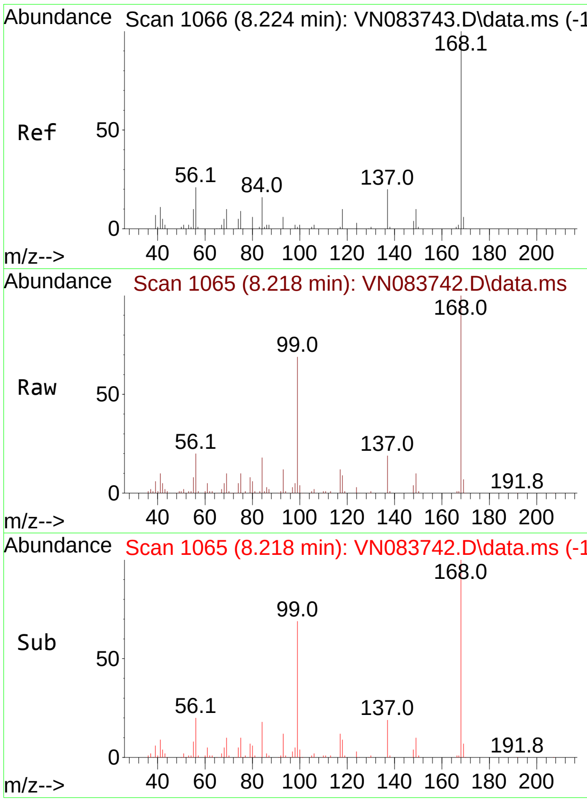
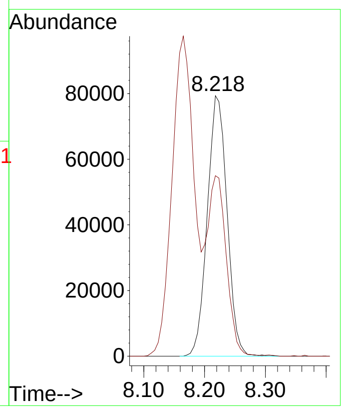




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:168 Resp: 179260

Ion	Ratio	Lower	Upper
168	100		
99	69.3	54.2	81.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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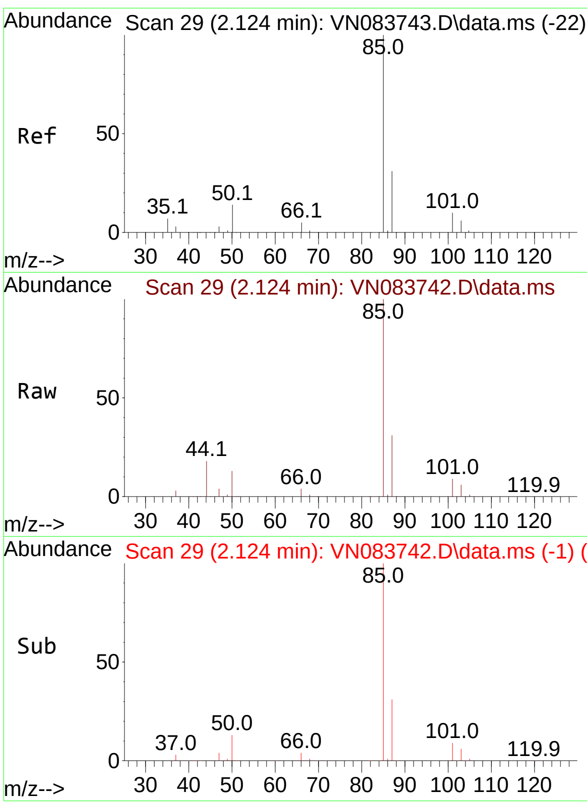
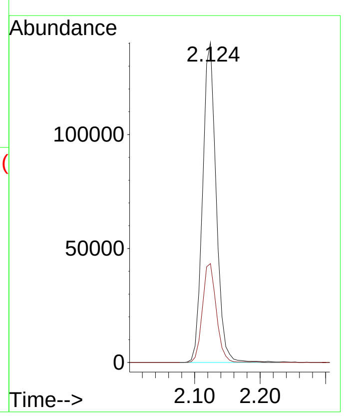


#2
Dichlorodifluoromethane
Concen: 97.390 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 85 Resp: 202748

Ion	Ratio	Lower	Upper
85	100		
87	30.9	15.7	47.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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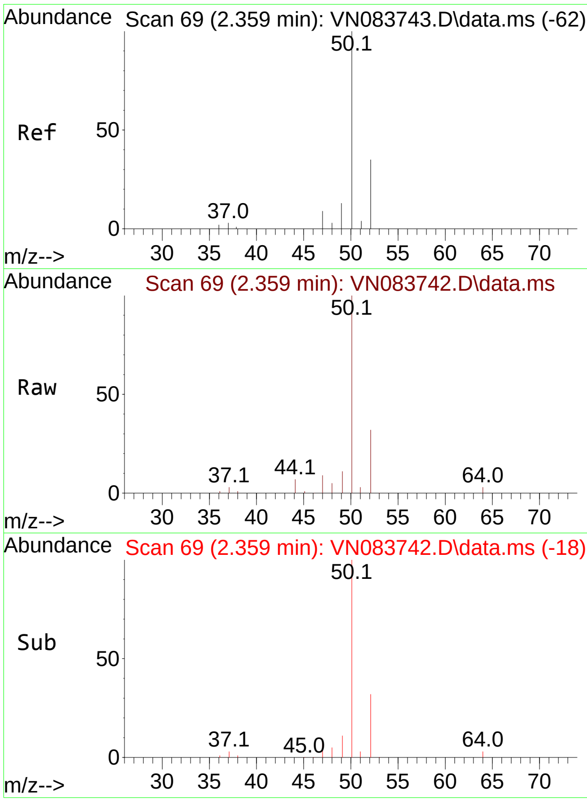
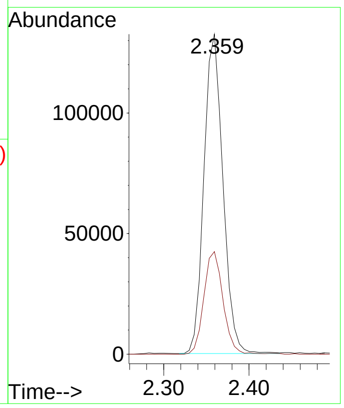
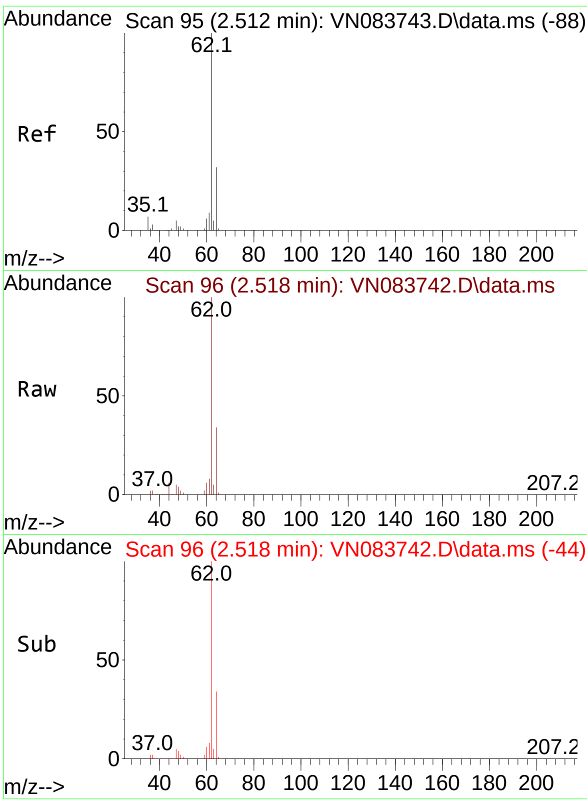


#3
Chloromethane
Concen: 98.414 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 50 Resp: 20541

Ion	Ratio	Lower	Upper
50	100		
52	32.1	27.2	40.8

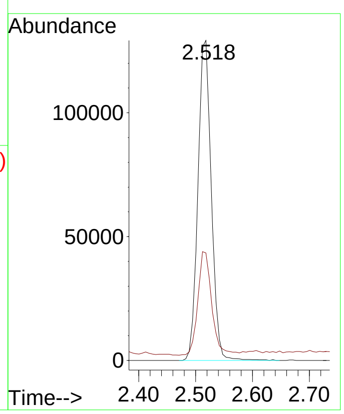




#4
Vinyl Chloride
Concen: 92.865 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 62 Resp: 211906

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.7	37.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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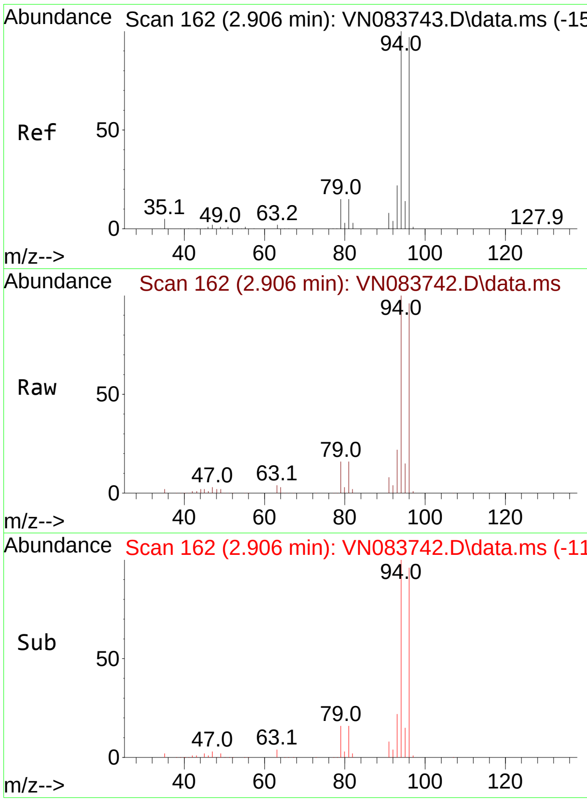
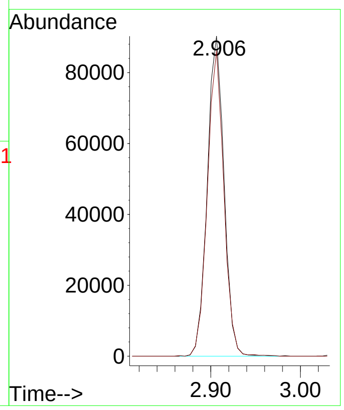
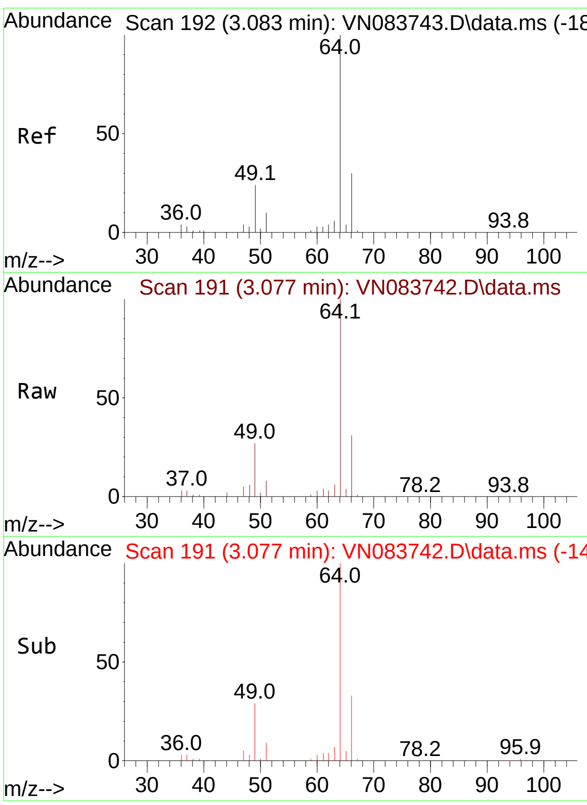


#5
Bromomethane
Concen: 89.520 ug/l
RT: 2.906 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 94 Resp: 11728

Ion	Ratio	Lower	Upper
94	100		
96	95.5	76.0	114.0

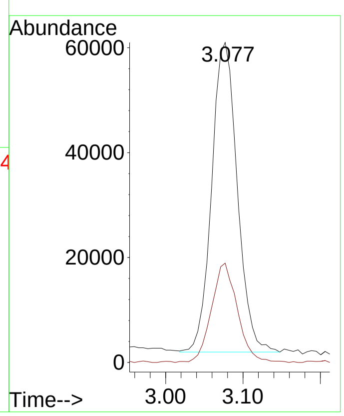




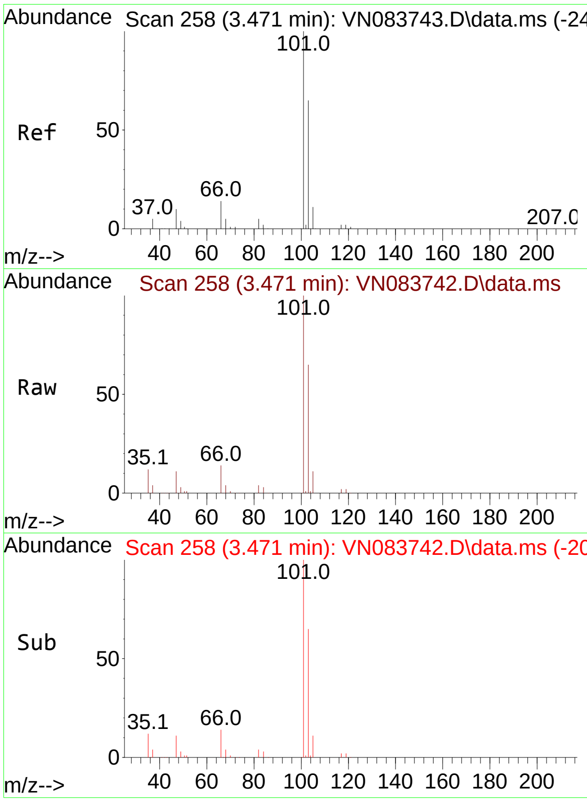
#6
Chloroethane
Concen: 85.956 ug/l
RT: 3.077 min Scan# 191
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 64 Resp: 136074

Ion	Ratio	Lower	Upper
64	100		
66	31.8	23.9	35.9



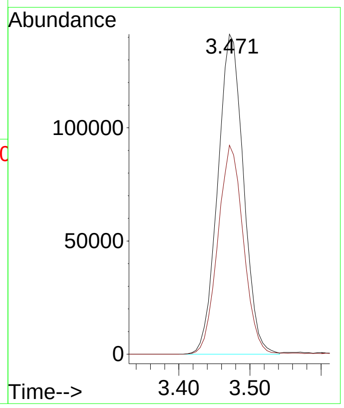
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#7
Trichlorofluoromethane
Concen: 91.591 ug/l
RT: 3.471 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:101 Resp: 35476

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.4	77.0



Instrument : MSVOA_N
ClientSampleId : VSTDICC100

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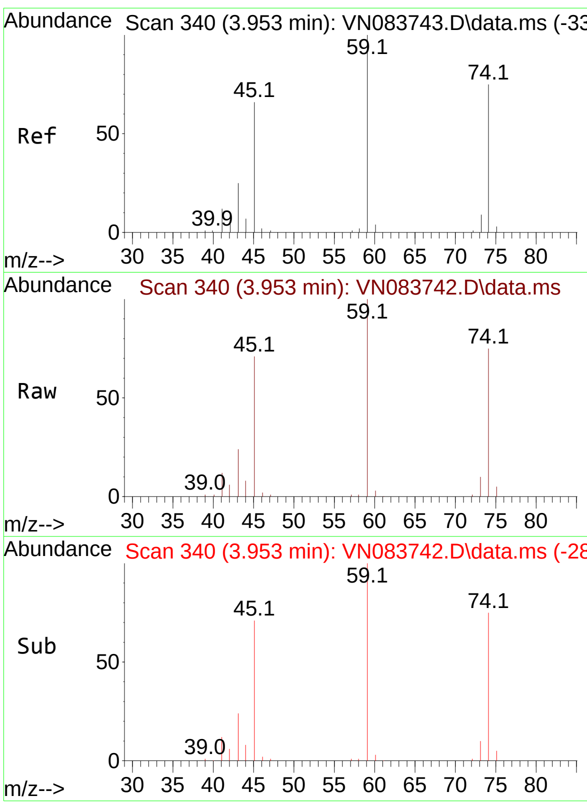
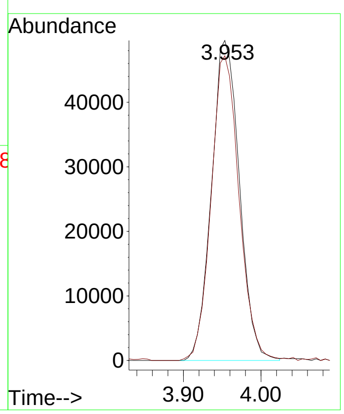
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

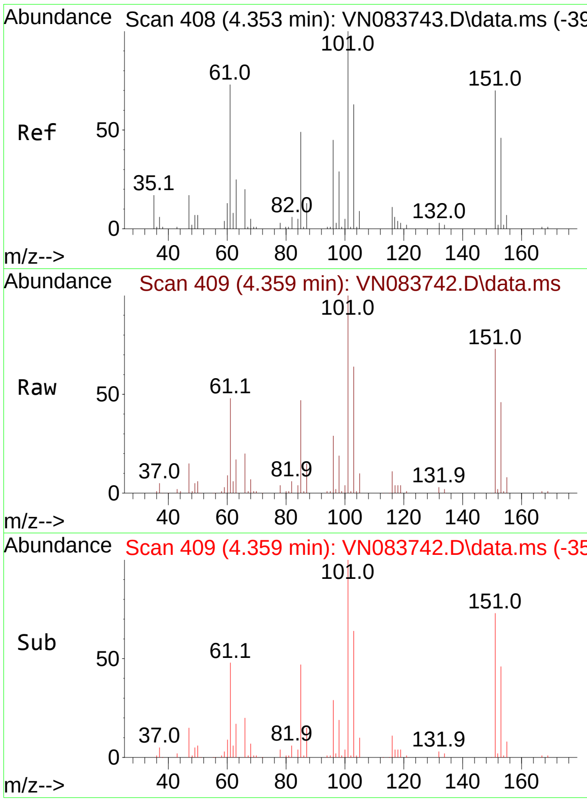


#8
Diethyl Ether
Concen: 95.544 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 74 Resp: 124053

Ion	Ratio	Lower	Upper
74	100		
45	95.4	46.7	140.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 95.438 ug/l
RT: 4.359 min Scan# 40
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 19593

Ion	Ratio	Lower	Upper
101	100		
85	47.0	36.2	54.4
151	72.9	57.7	86.5

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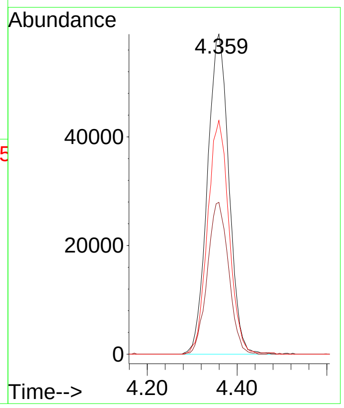
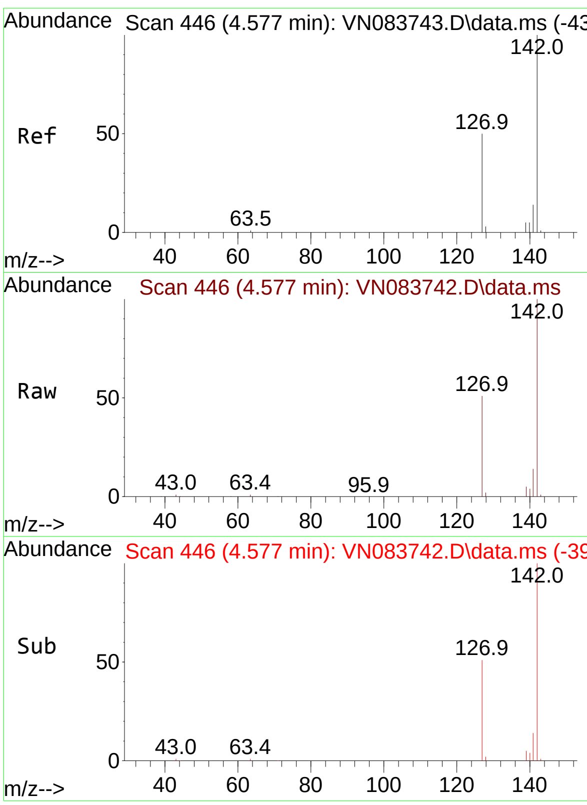
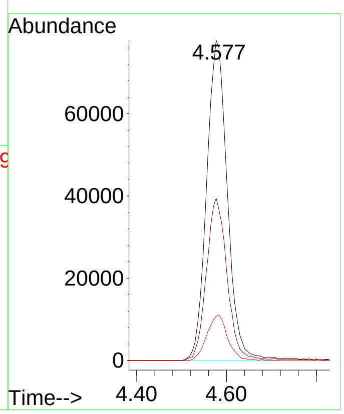




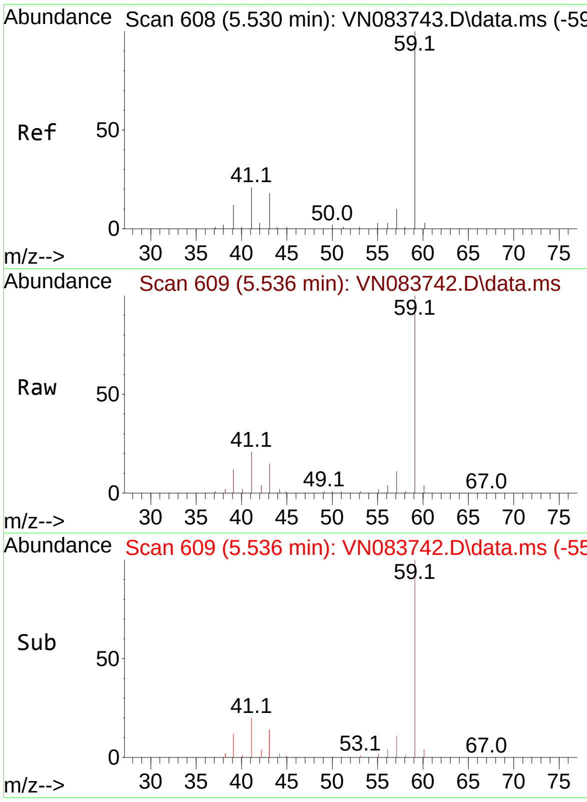
#10
Methyl Iodide
Concen: 95.682 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:142 Resp: 249832

Ion	Ratio	Lower	Upper
142	100		
127	50.7	37.5	56.3
141	13.8	11.0	16.4



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#11
Tert butyl alcohol
Concen: 441.627 ug/l
RT: 5.536 min Scan# 6(
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 59 Resp: 159849

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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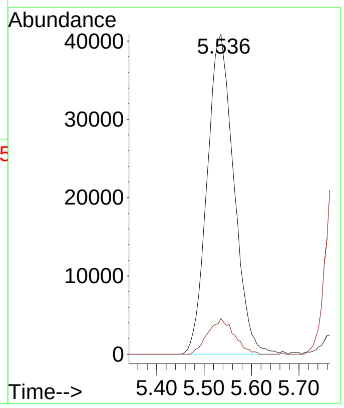
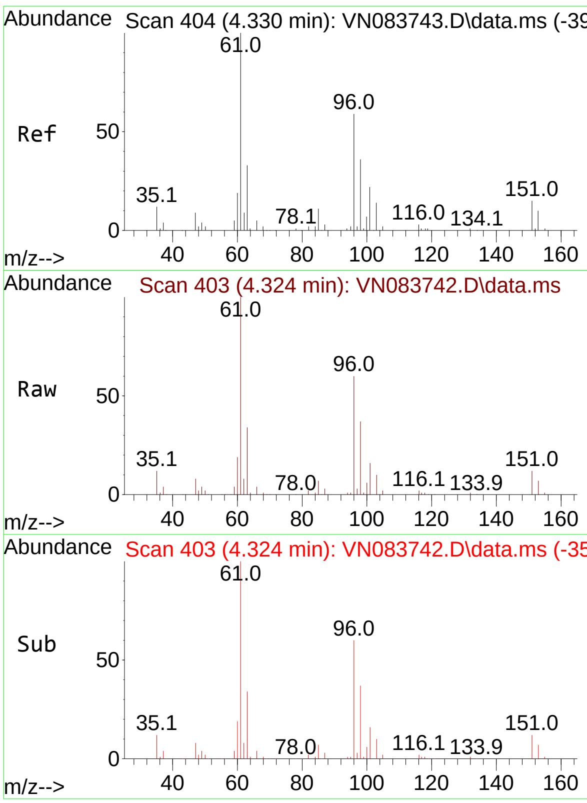


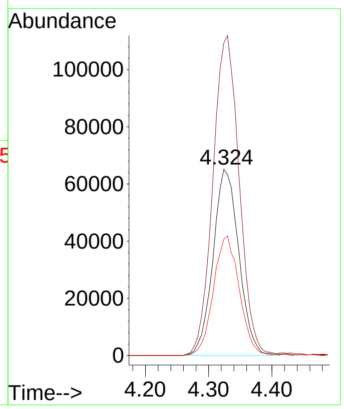
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#12
1,1-Dichloroethene
Concen: 95.429 ug/l
RT: 4.324 min Scan# 403
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 96 Resp: 185025

Ion	Ratio	Lower	Upper
96	100		
61	168.0	143.4	215.0
98	62.6	52.7	79.1



Instrument : MSVOA_N
ClientSampleId : VSTDICC100

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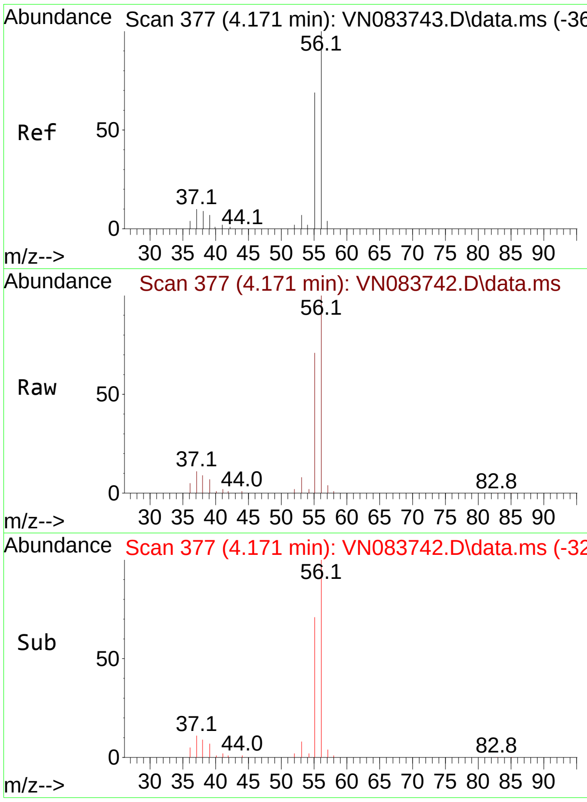
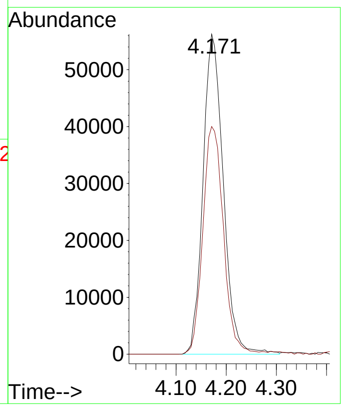
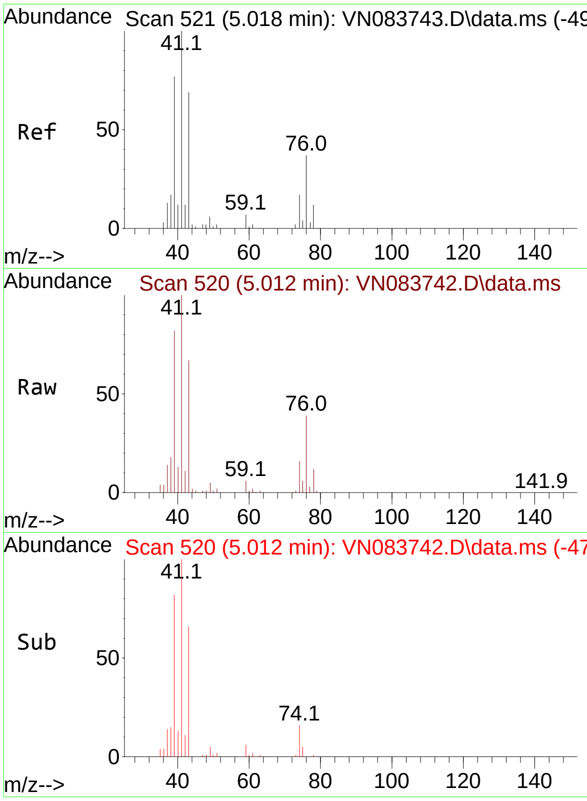


#13
Acrolein
Concen: 442.417 ug/l
RT: 4.171 min Scan# 37
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 56 Resp: 158000

Ion	Ratio	Lower	Upper
56	100		
55	72.1	58.2	87.2

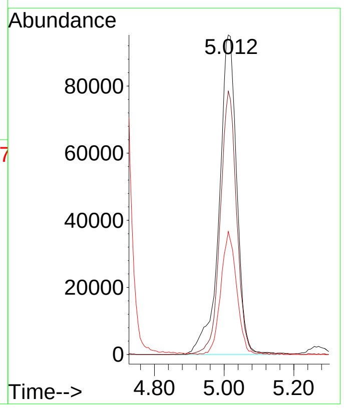


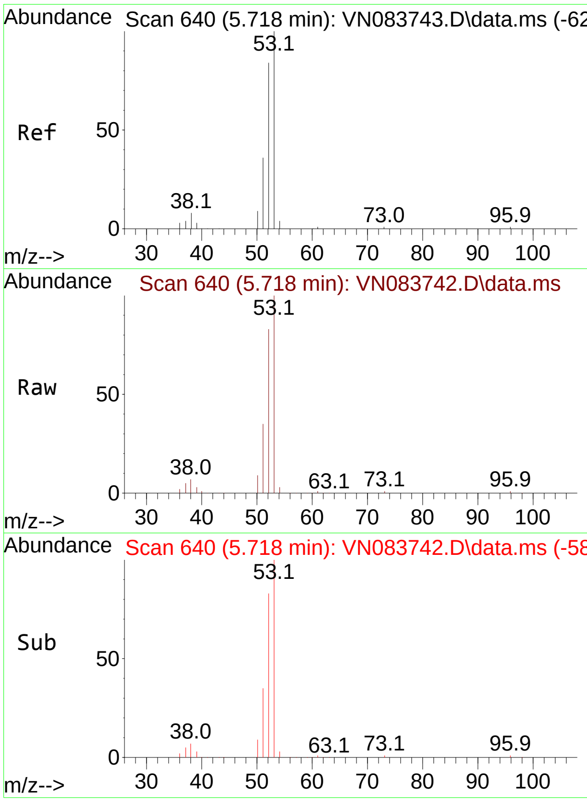


#14
Allyl chloride
Concen: 96.948 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 41 Resp: 334937

Ion	Ratio	Lower	Upper
41	100		
39	76.4	59.3	88.9
76	34.4	27.7	41.5





#15
Acrylonitrile
Concen: 461.277 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 53 Resp: 454054

Ion	Ratio	Lower	Upper
53	100		
52	83.2	66.1	99.1
51	37.3	29.6	44.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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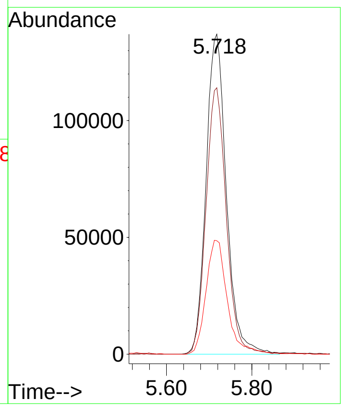
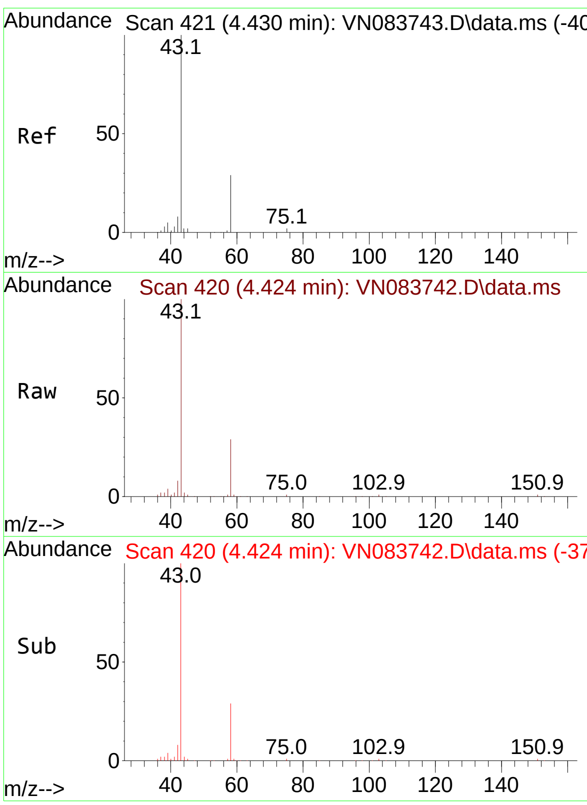
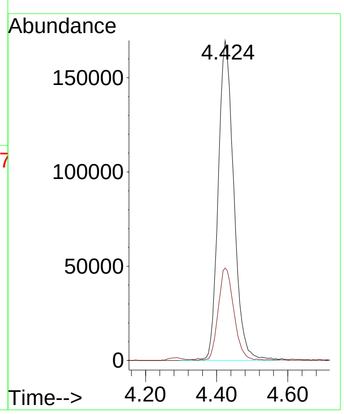


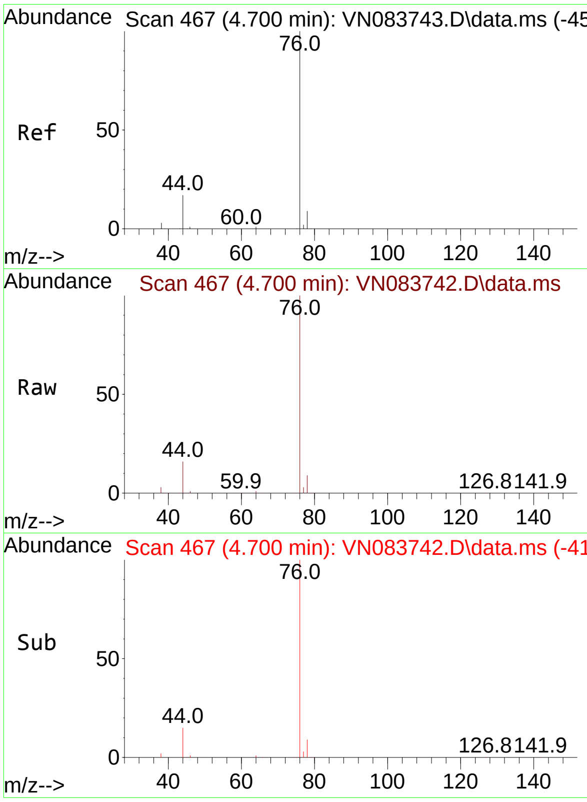


#16
Acetone
Concen: 475.936 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 43 Resp: 515707

Ion	Ratio	Lower	Upper
43	100		
58	28.7	23.7	35.5





#17
Carbon Disulfide
Concen: 91.817 ug/l
RT: 4.700 min Scan# 4(
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

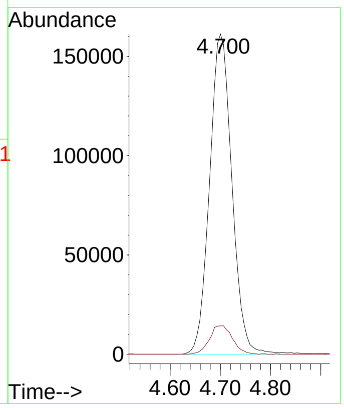
Tgt Ion: 76 Resp: 49798

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7

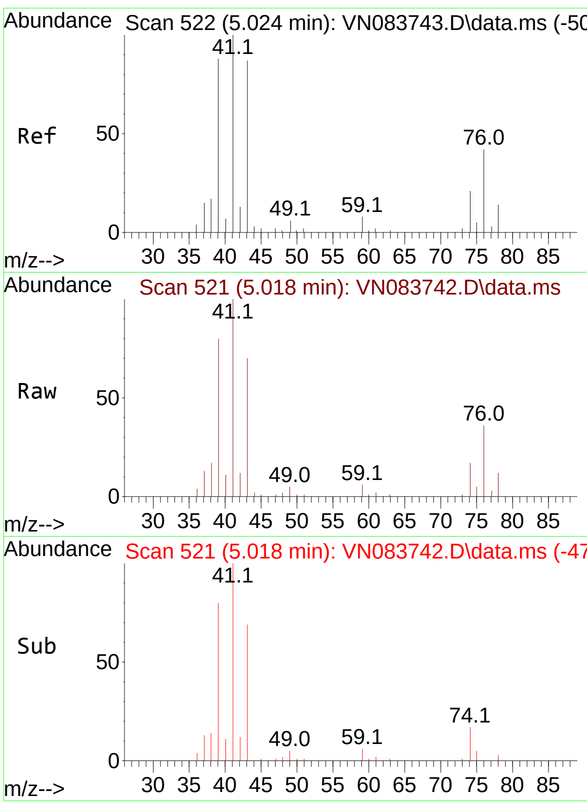
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



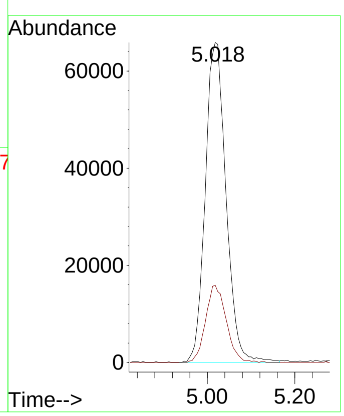
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#18
Methyl Acetate
Concen: 98.170 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 43 Resp: 217598

Ion	Ratio	Lower	Upper
43	100		
74	23.9	19.0	28.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
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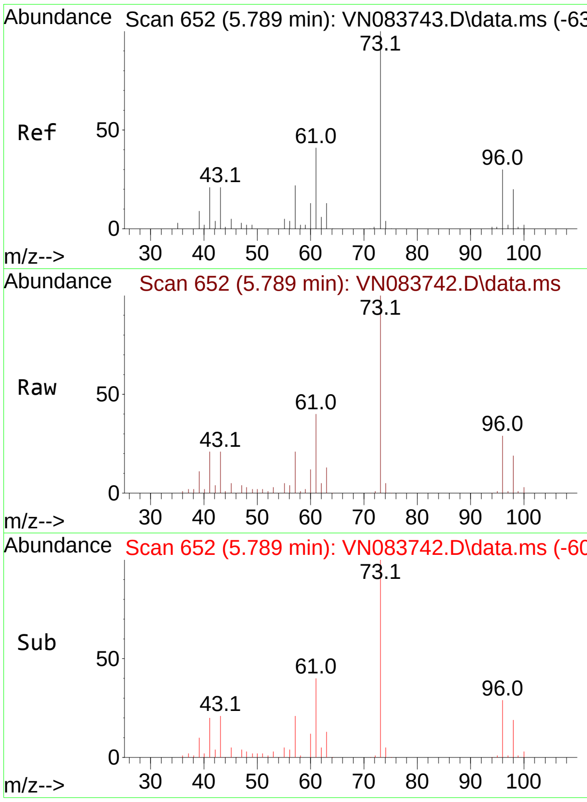
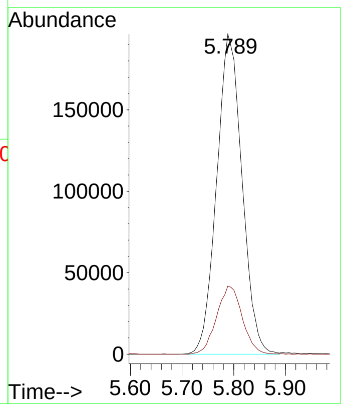
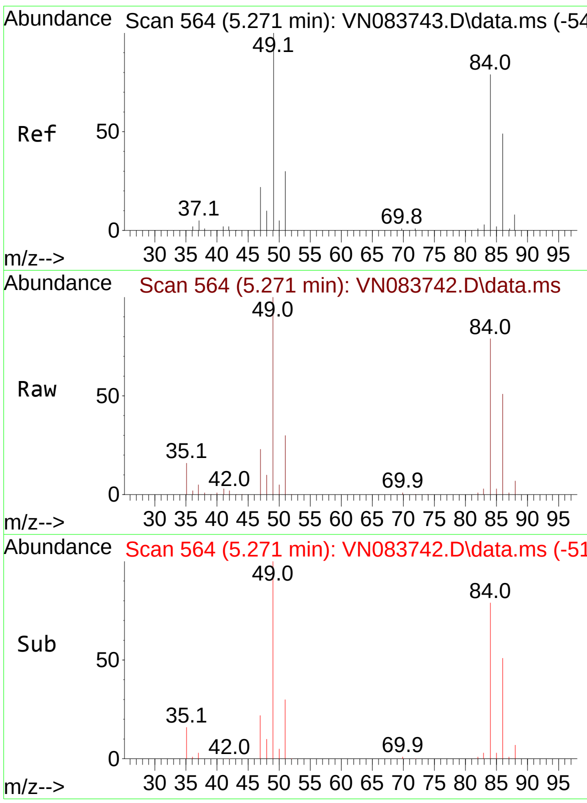


#19
Methyl tert-butyl Ether
Concen: 95.259 ug/l
RT: 5.789 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 73 Resp: 66835

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.0	25.6

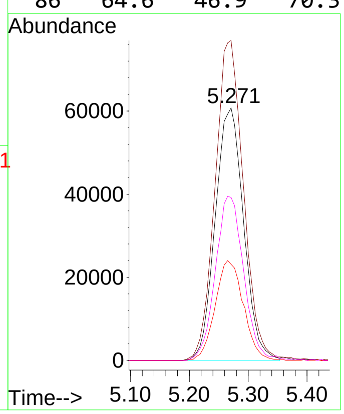




#20
Methylene Chloride
Concen: 91.913 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 84 Resp: 203805

Ion	Ratio	Lower	Upper
84	100		
49	126.7	93.4	140.0
51	38.1	29.2	43.8
86	64.6	46.9	70.3



Instrument :
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VSTDICC100

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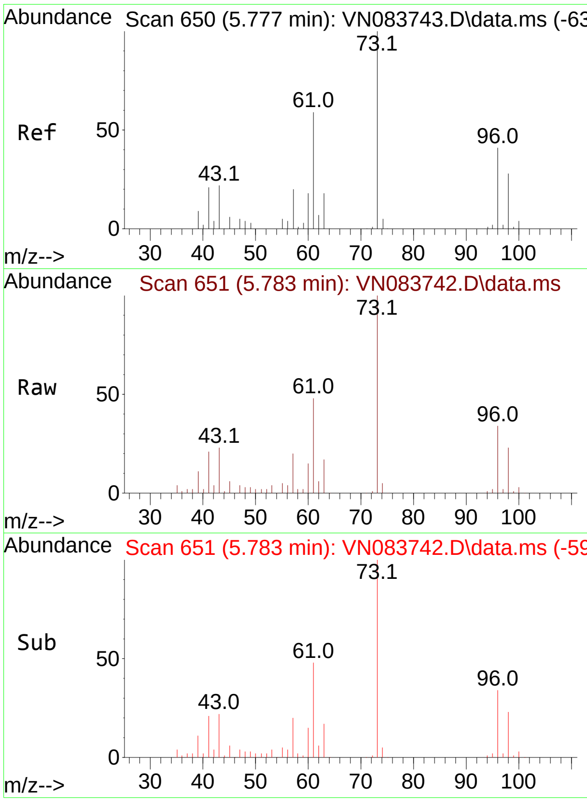
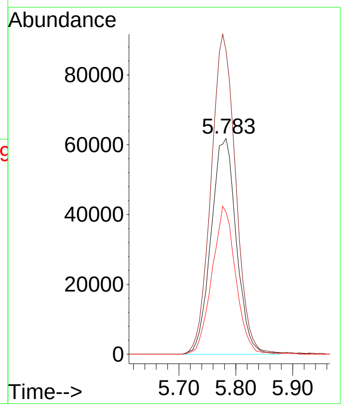
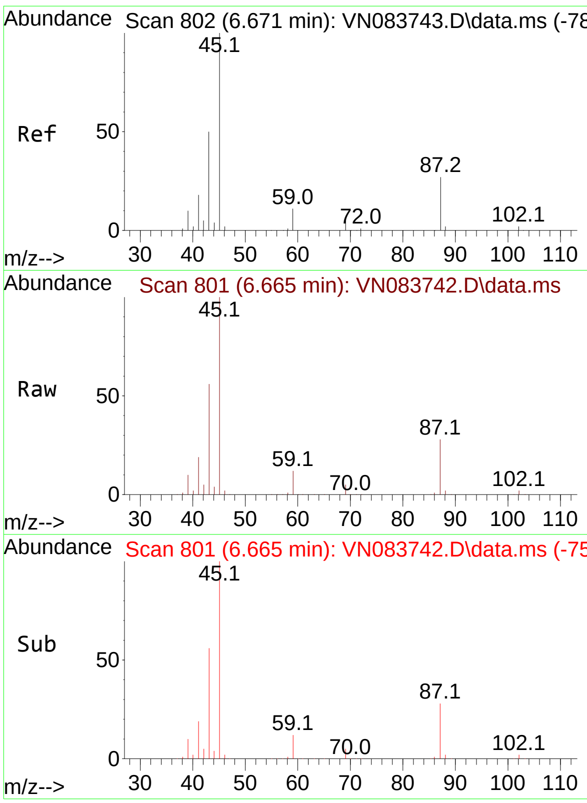



```
#21
trans-1,2-Dichloroethene
Concen:   91.967 ug/l
RT:   5.783 min   Scan# 6
Delta R.T.   0.006 min
Lab File:    VN083742.D
Acq: 10 Sep 2024   09:08

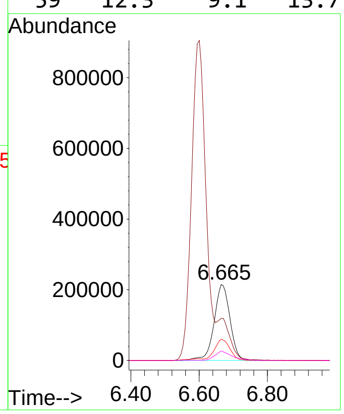
Tgt Ion: 96 Resp:   191098
Ion   Ratio   Lower   Upper
 96   100
 61   140.6   106.0   159.0
 98    65.7    52.2    78.2
```

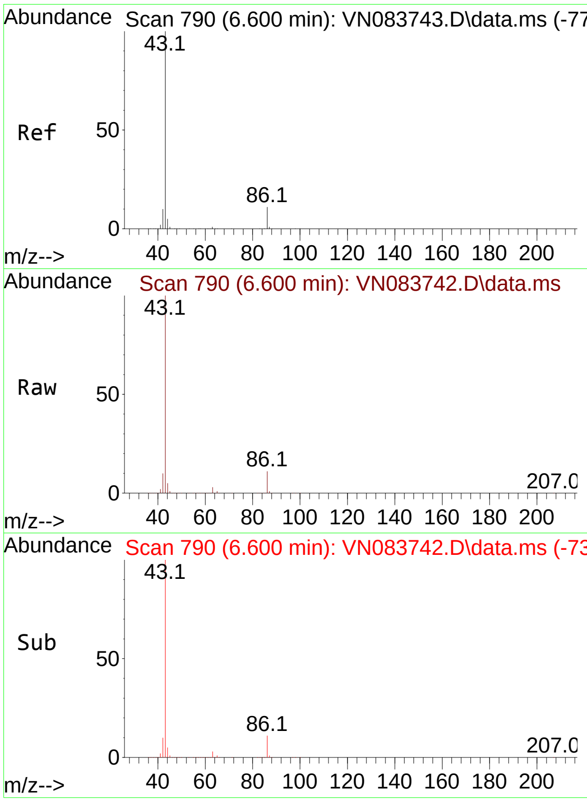





```
#22
Diisopropyl ether
Concen:   97.608 ug/l
RT:   6.665 min   Scan# 801
Delta R.T.   -0.006 min
Lab File:    VN083742.D
Acq: 10 Sep 2024   09:08

Tgt Ion: 45 Resp:   694175
Ion   Ratio   Lower   Upper
 45   100
 43    55.4    43.4    65.0
 87    28.0    22.6    33.8
 59    12.3     9.1    13.7
```





#23
Vinyl Acetate
Concen: 511.076 ug/l
RT: 6.600 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 43 Resp: 266175

Ion	Ratio	Lower	Upper
43	100		
86	10.6	8.7	13.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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Reviewed By :John Carlone 09/11/2024
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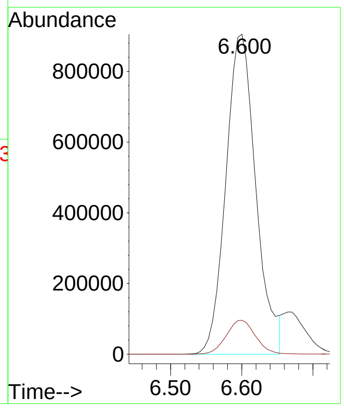
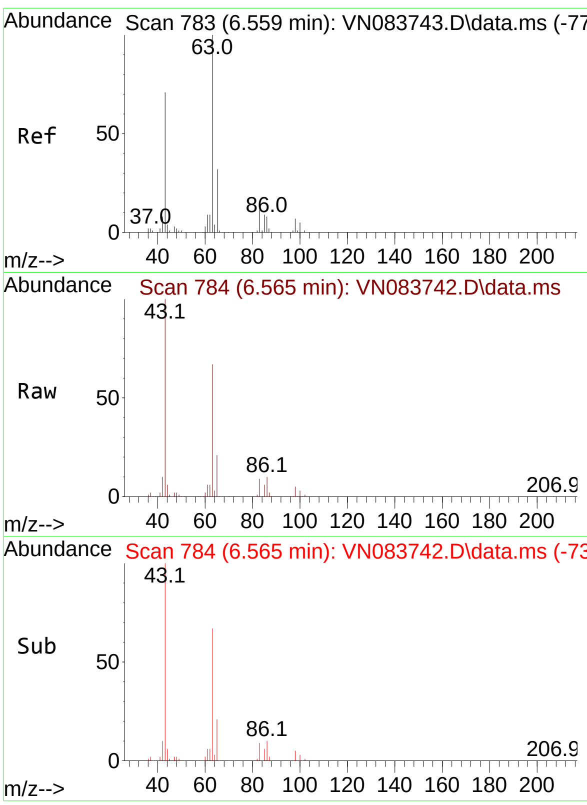
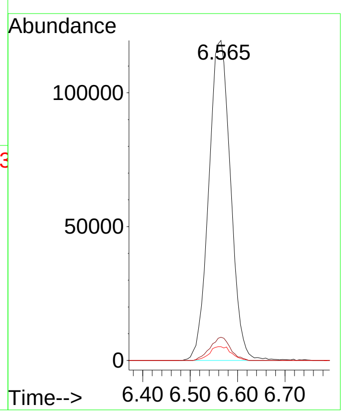




#24
1,1-Dichloroethane
Concen: 93.539 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 63 Resp: 383257

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.5	10.4
100	4.3	2.5	7.5



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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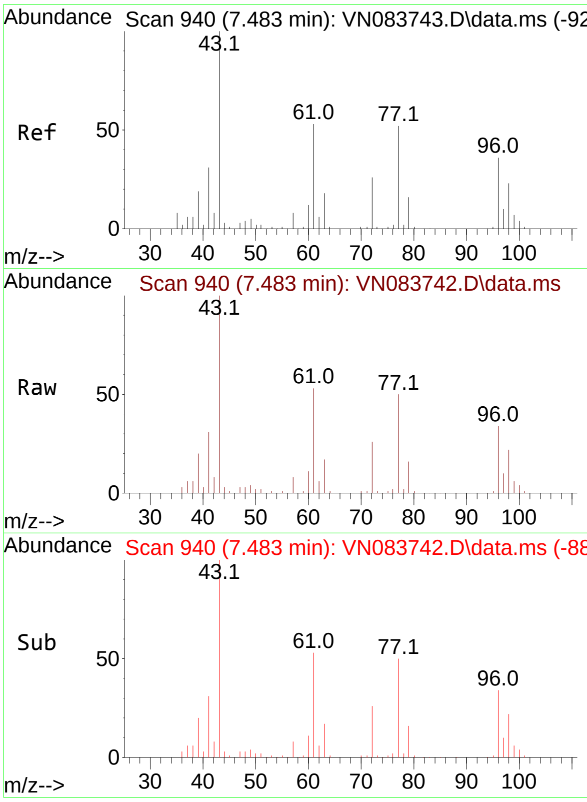
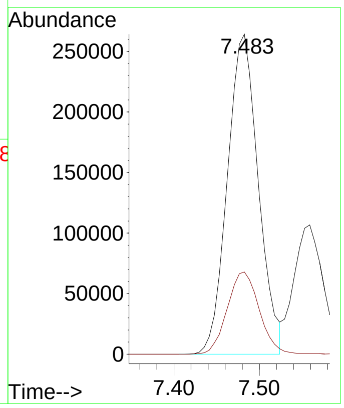
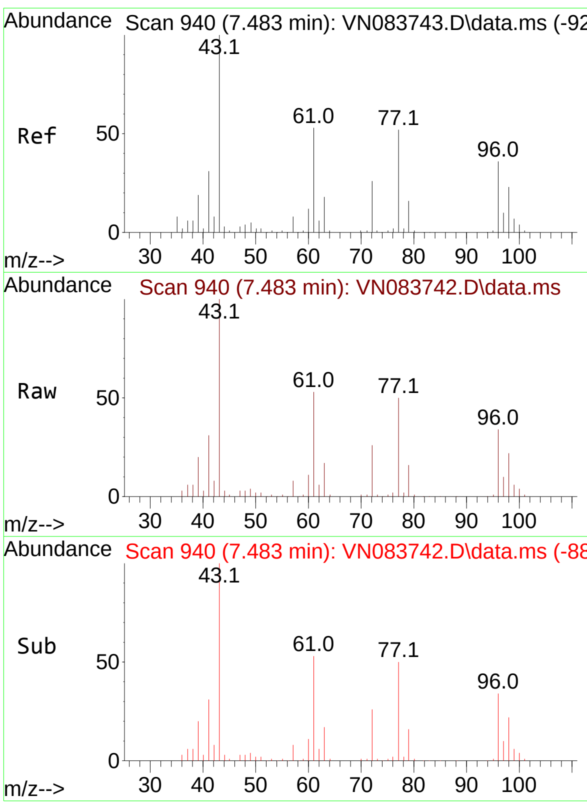


#25
2-Butanone
Concen: 468.347 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 43 Resp: 66700

Ion	Ratio	Lower	Upper
43	100		
72	25.7	20.8	31.2

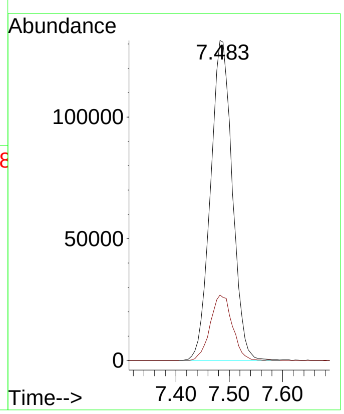


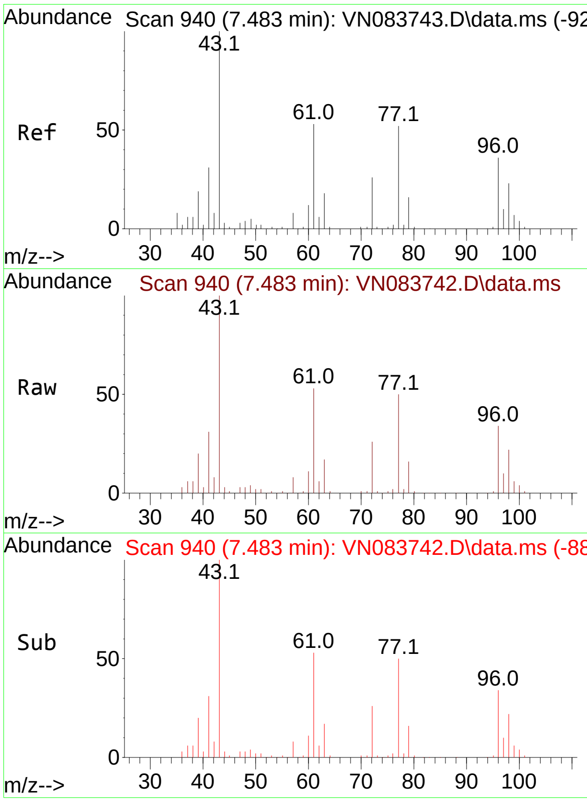


#26
2,2-Dichloropropane
Concen: 99.301 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 77 Resp: 374693

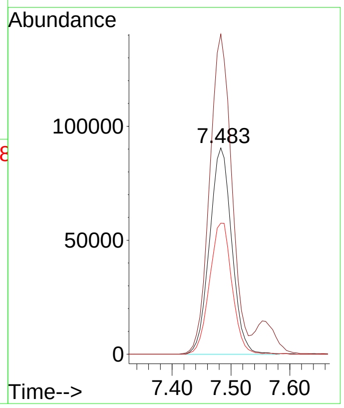
Ion	Ratio	Lower	Upper
77	100		
97	20.6	10.2	30.4






```
#27
cis-1,2-Dichloroethene
Concen:   96.450 ug/l
RT:    7.483 min   Scan# 94
Delta R.T.   -0.000 min
Lab File:    VN083742.D
Acq: 10 Sep 2024   09:08

Tgt Ion: 96 Resp:  23790
Ion   Ratio   Lower   Upper
 96   100
 61   153.6     0.0   306.2
 98    64.0     0.0   128.6
```



Instrument : MSVOA_N
ClientSampleId : VSTDICC100

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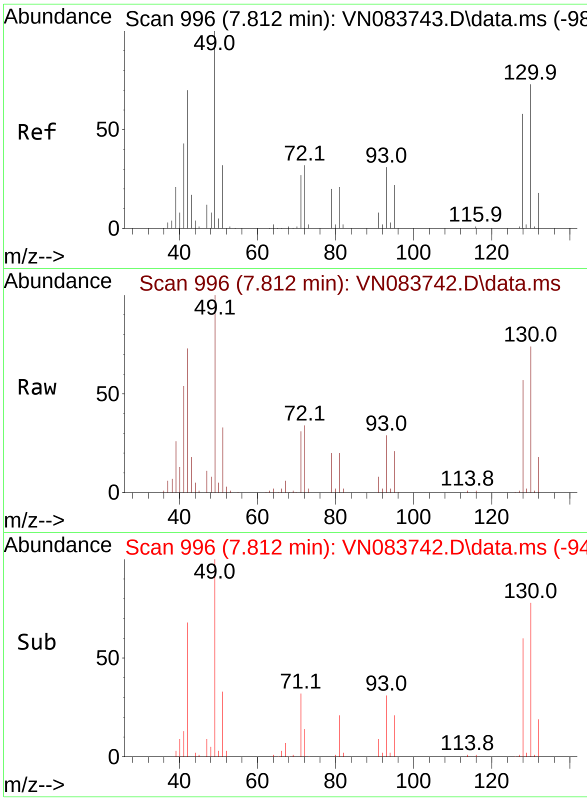
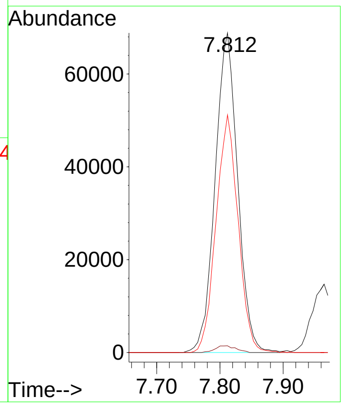



```
#28
Bromochloromethane
Concen:   99.126 ug/l
RT:    7.812 min   Scan# 996
Delta R.T.   -0.000 min
Lab File:    VN083742.D
Acq: 10 Sep 2024   09:08

Tgt Ion: 49 Resp:  171038
Ion   Ratio   Lower   Upper
 49   100
129     1.9     0.0     3.4
130    72.6    60.2    90.2
```



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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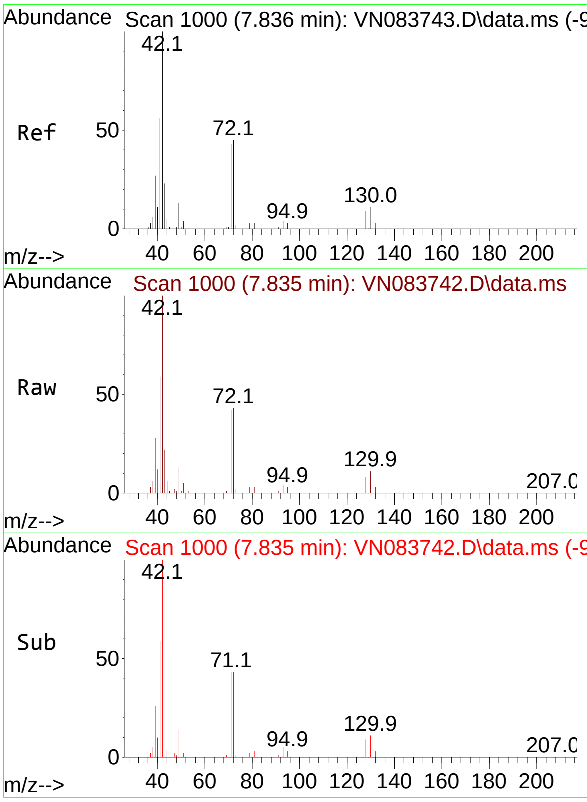
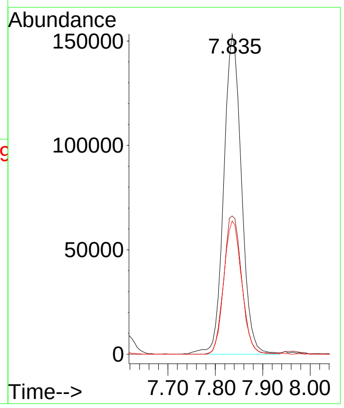
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

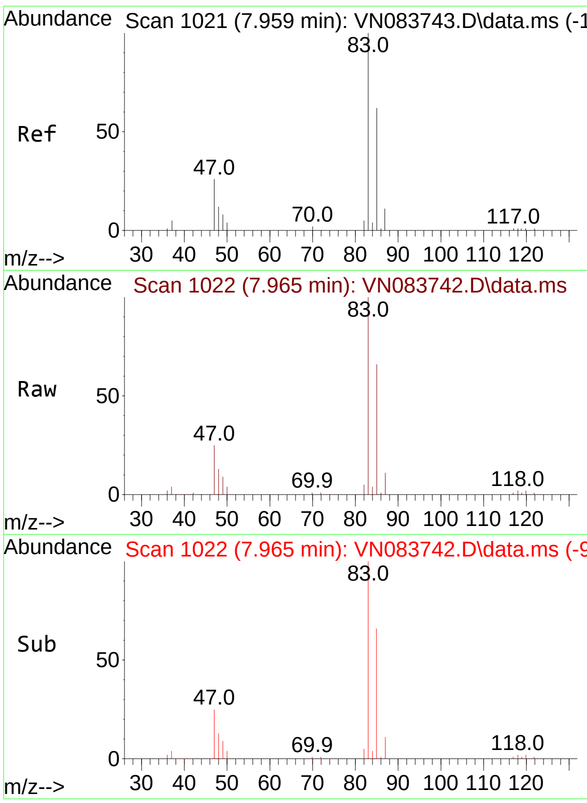


#29
Tetrahydrofuran
Concen: 473.660 ug/l
RT: 7.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 42 Resp: 39886

Ion	Ratio	Lower	Upper
42	100		
72	43.9	35.9	53.9
71	41.8	33.9	50.9

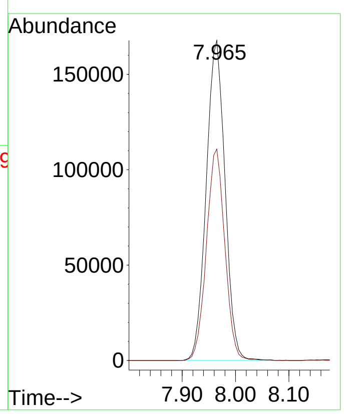




#30
Chloroform
Concen: 94.390 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 83 Resp: 410584

Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.8	79.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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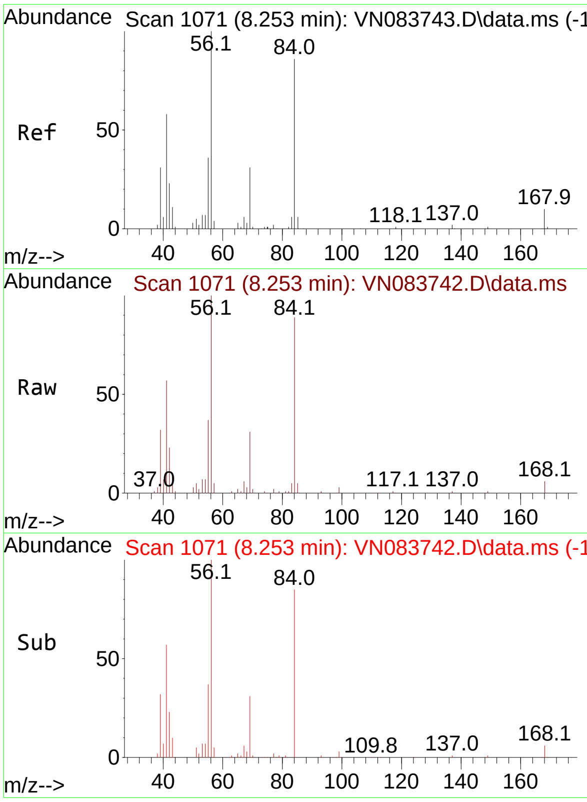
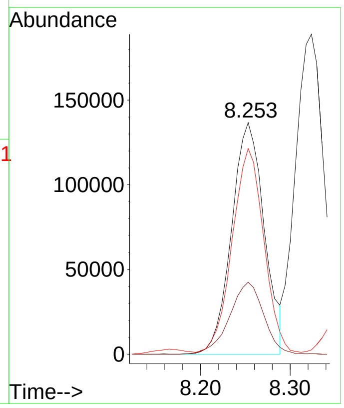
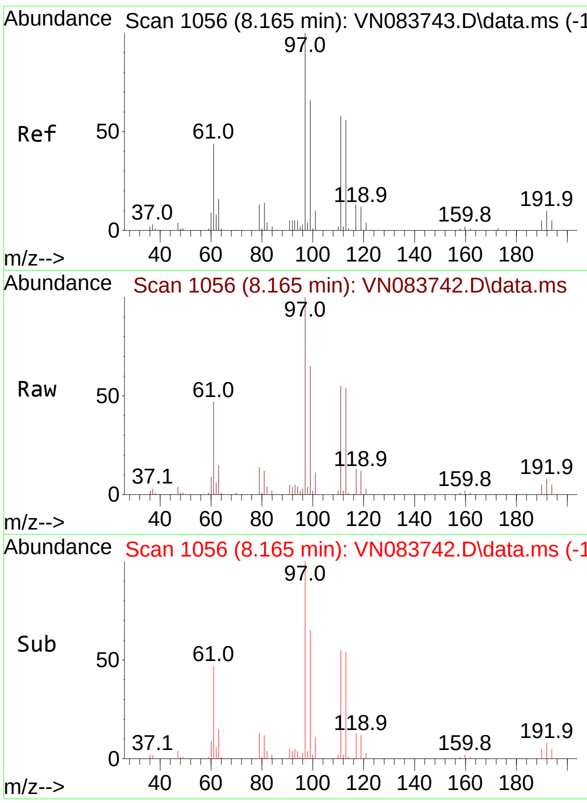


#31
Cyclohexane
Concen: 88.574 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 56 Resp: 34601

Ion	Ratio	Lower	Upper
56	100		
69	31.1	26.9	40.3
84	87.1	69.2	103.8

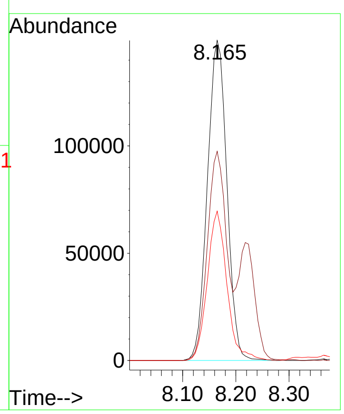


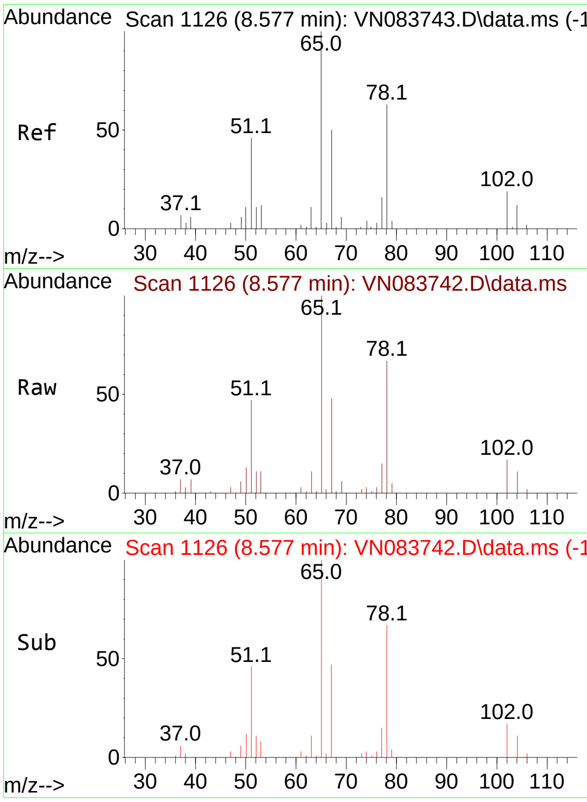


#32
1,1,1-Trichloroethane
Concen: 95.240 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 97 Resp: 380933

Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.3	78.5
61	46.9	38.2	57.2





#33
1,2-Dichloroethane-d4
Concen: 98.775 ug/l
RT: 8.577 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 65 Resp: 26698

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	100.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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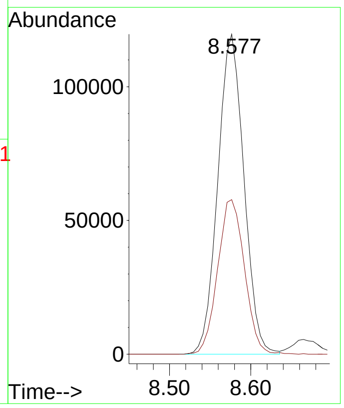
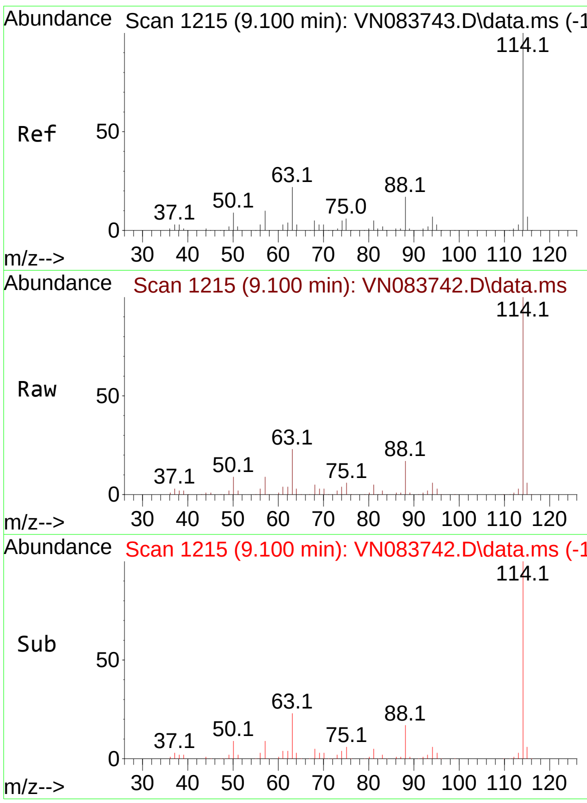
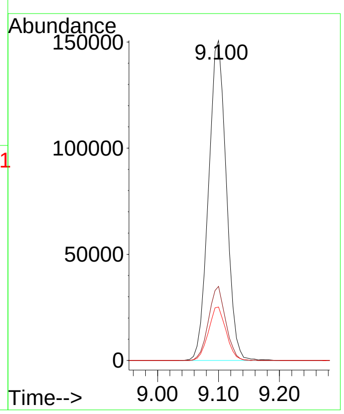




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:114 Resp: 305334

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	43.4
88	16.7	0.0	32.6



Instrument : MSVOA_N
ClientSampleId : VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
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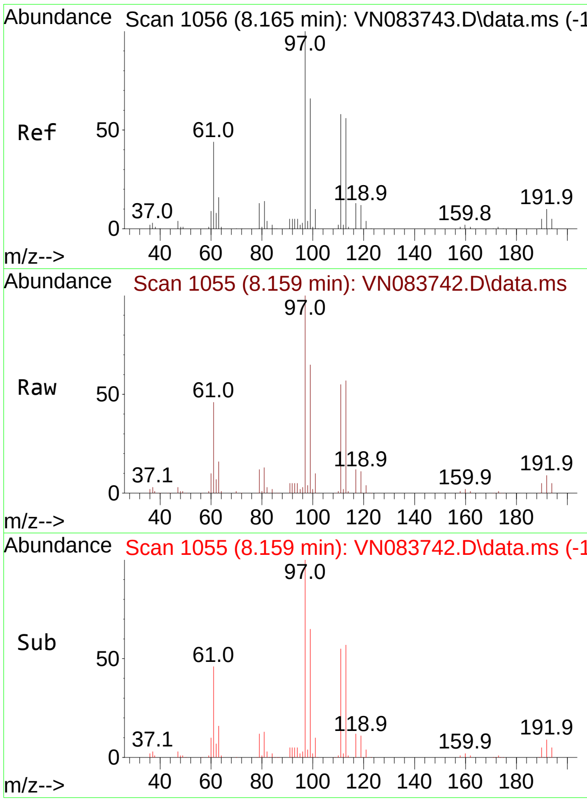
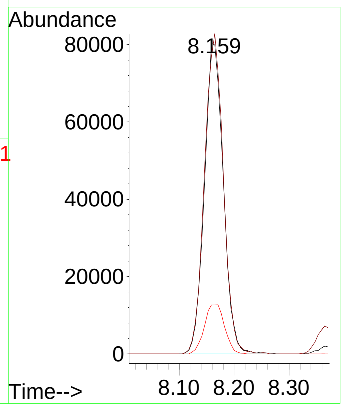
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

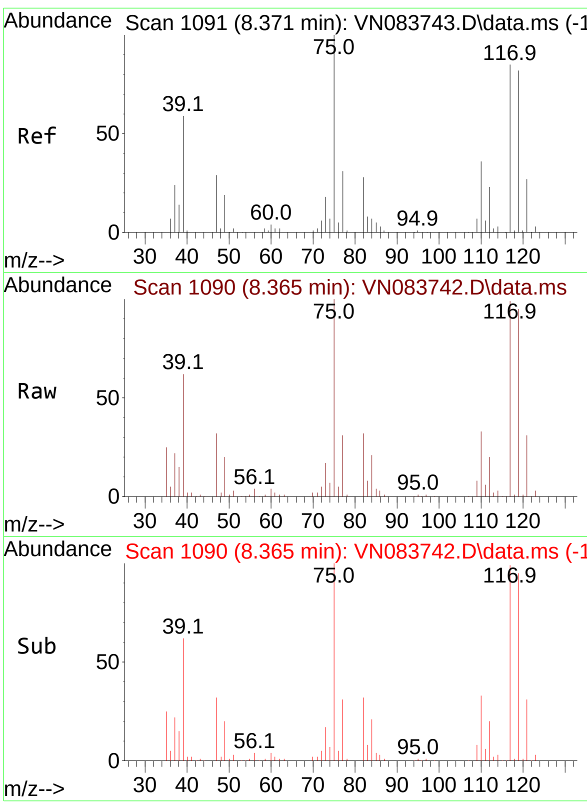


#35
Dibromofluoromethane
Concen: 98.687 ug/l
RT: 8.159 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:113 Resp: 192905

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.6	124.0
192	16.9	14.3	21.5

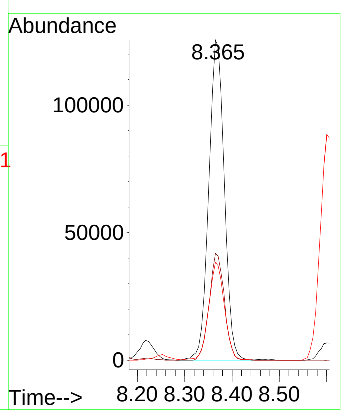


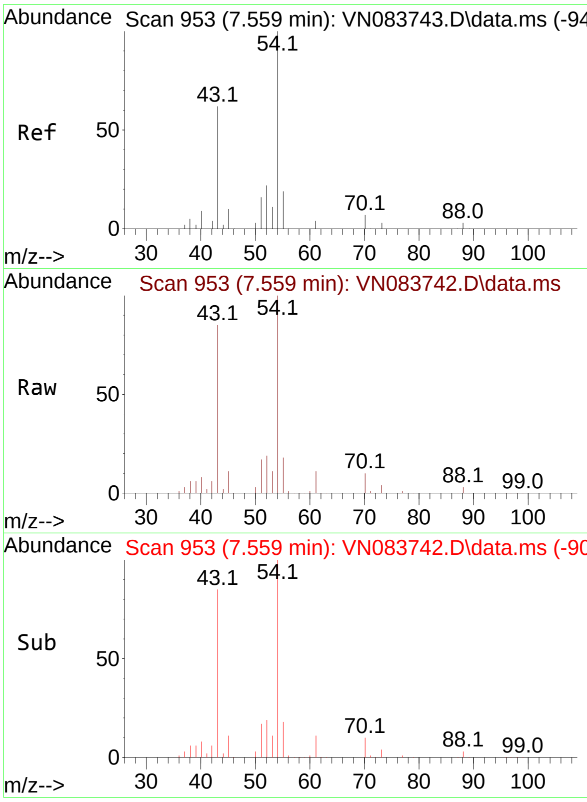


#36
1,1-Dichloropropene
Concen: 97.756 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 75 Resp: 287609

Ion	Ratio	Lower	Upper
75	100		
110	32.7	16.7	50.1
77	30.8	25.2	37.8

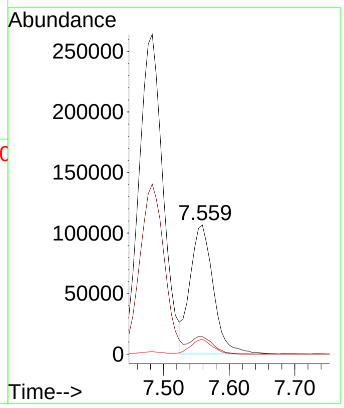




#37
Ethyl Acetate
Concen: 98.714 ug/l
RT: 7.559 min   Scan# 9
Delta R.T.   -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024   09:08

Tgt Ion: 43 Resp: 26362

Ion	Ratio	Lower	Upper
43	100		
61	12.8	11.1	16.7
70	10.8	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone   09/11/2024
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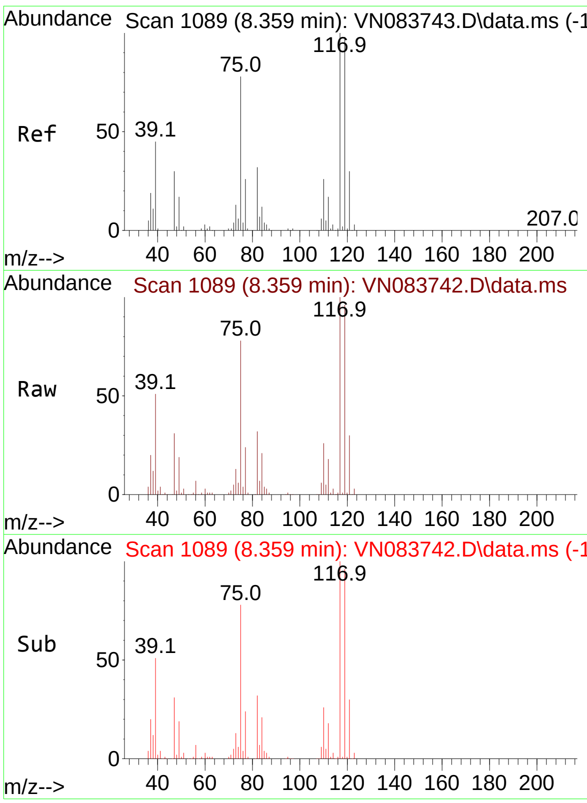
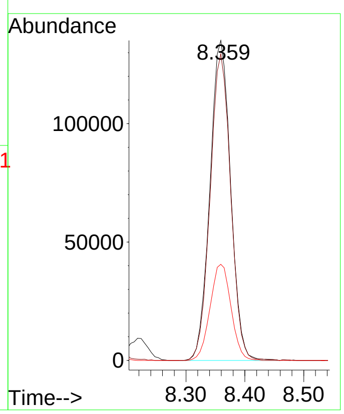
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

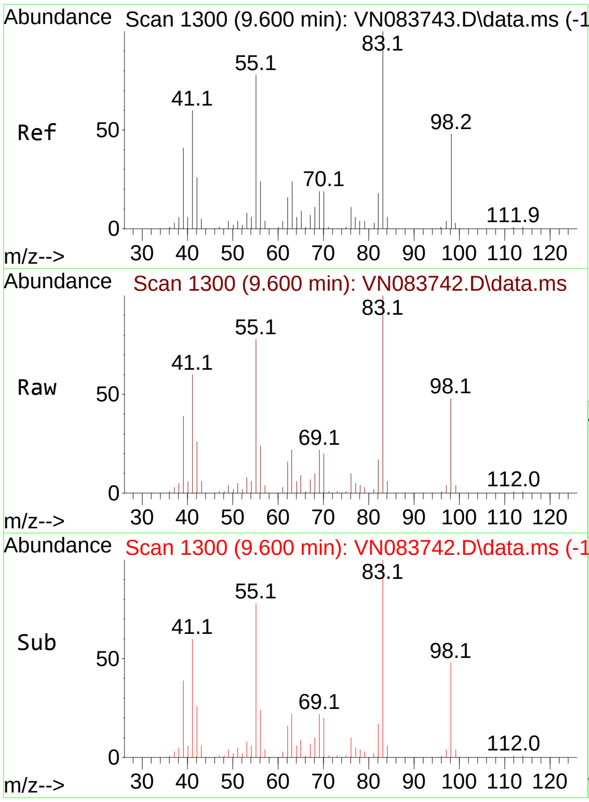


#38
Carbon Tetrachloride
Concen: 99.004 ug/l
RT: 8.359 min   Scan# 1089
Delta R.T.   -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024   09:08

Tgt Ion:117 Resp: 330457

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.1	114.1
121	30.0	24.1	36.1





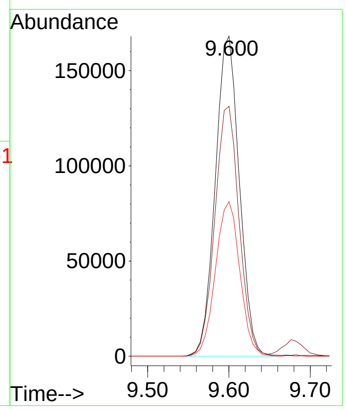
#39
Methylcyclohexane
Concen: 103.576 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

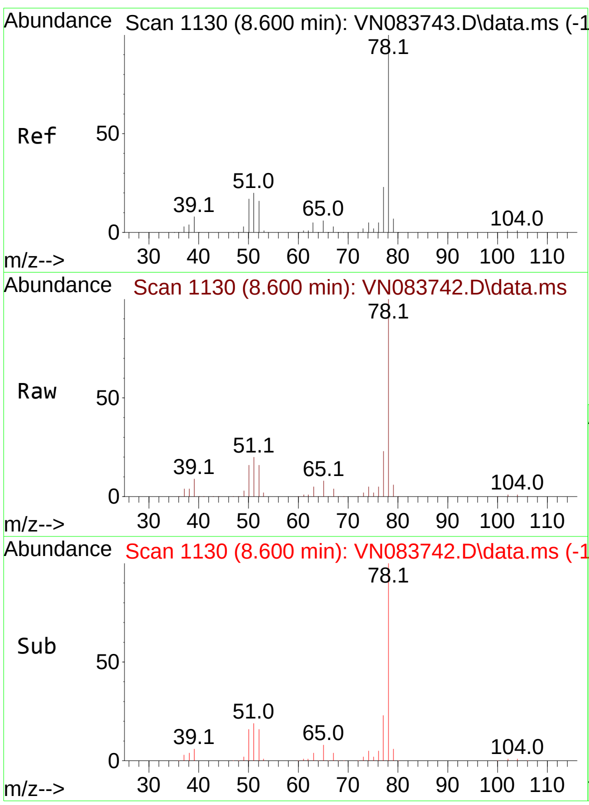
Tgt Ion: 83 Resp: 34686

Ion	Ratio	Lower	Upper
83	100		
55	78.1	62.2	93.4
98	48.3	37.6	56.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

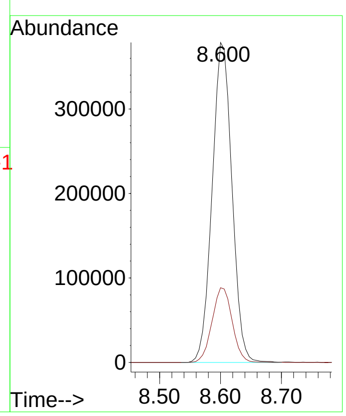




#40
Benzene
Concen: 96.512 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 78 Resp: 854656

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.6



Instrument :
MSVOA_N
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VSTDICC100

Manual Integrations
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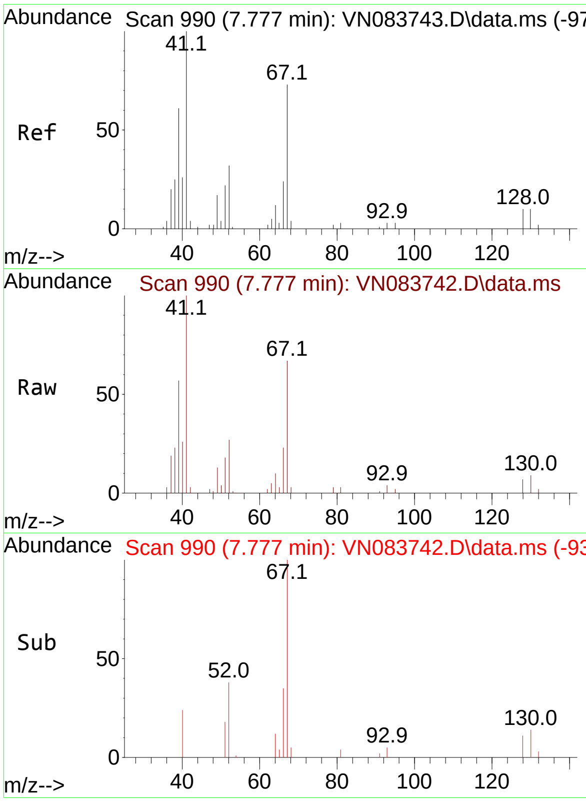
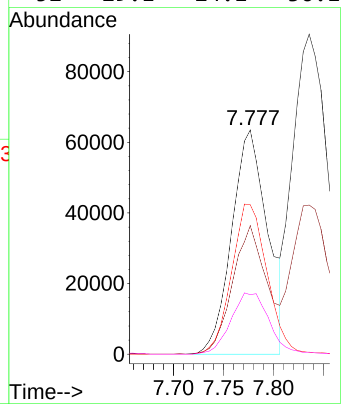
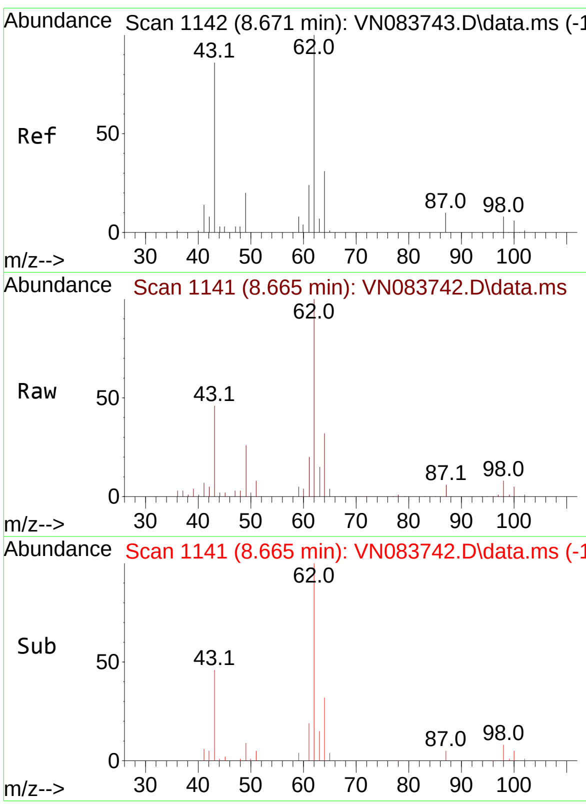



```
#41
Methacrylonitrile
Concen:  100.410 ug/l
RT:   7.777 min  Scan# 99
Delta R.T.  -0.000 min
Lab File:   VN083742.D
Acq: 10 Sep 2024  09:08

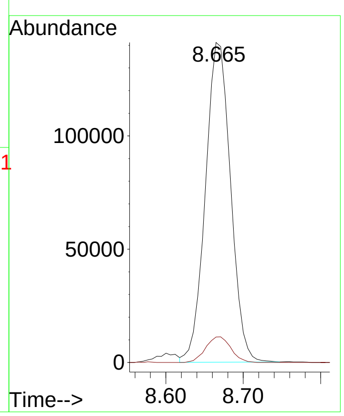
Tgt Ion: 41 Resp:  15860
Ion  Ratio  Lower  Upper
 41  100
 39   55.2   45.4   68.2
 67   66.3   55.9   83.9
 52   29.1   24.1   36.1
```

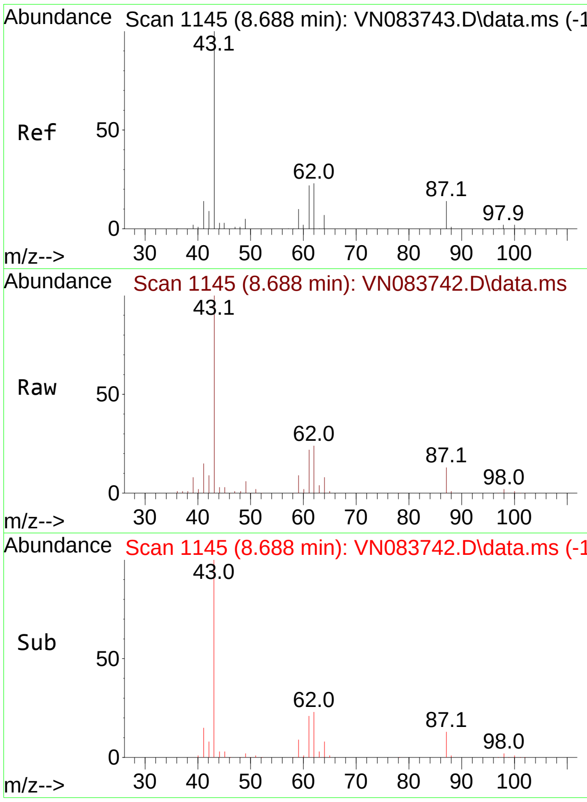





```
#42
1,2-Dichloroethane
Concen:   96.572 ug/l
RT:   8.665 min  Scan# 1141
Delta R.T.  -0.006 min
Lab File:   VN083742.D
Acq: 10 Sep 2024  09:08

Tgt Ion: 62 Resp:  319551
Ion  Ratio  Lower  Upper
 62  100
 98    8.0    0.0   16.6
```





#43
Isopropyl Acetate
Concen: 97.780 ug/l
RT: 8.688 min   Scan# 1
Delta R.T.   -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024   09:08

Tgt Ion: 43 Resp: 47319

Ion	Ratio	Lower	Upper
43	100		
61	26.1	19.4	29.0
87	13.0	9.8	14.6

Instrument :
MSVOA_N
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VSTDICC100

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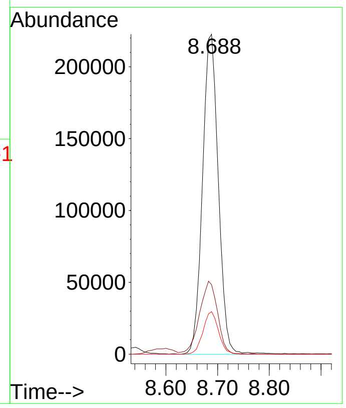
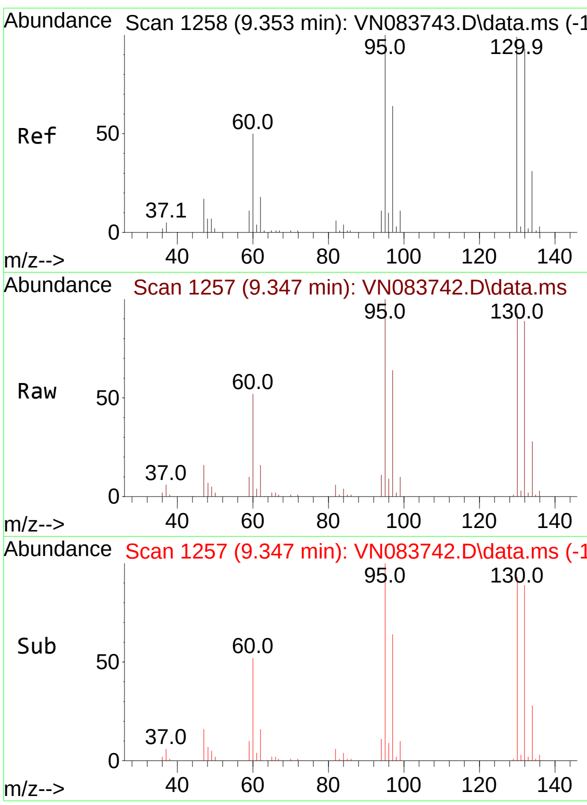
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

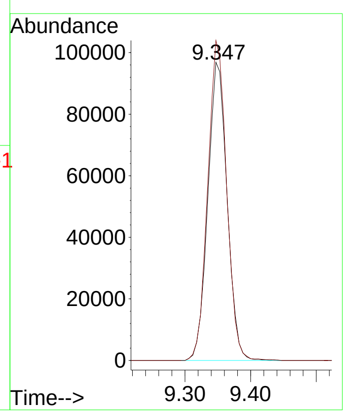


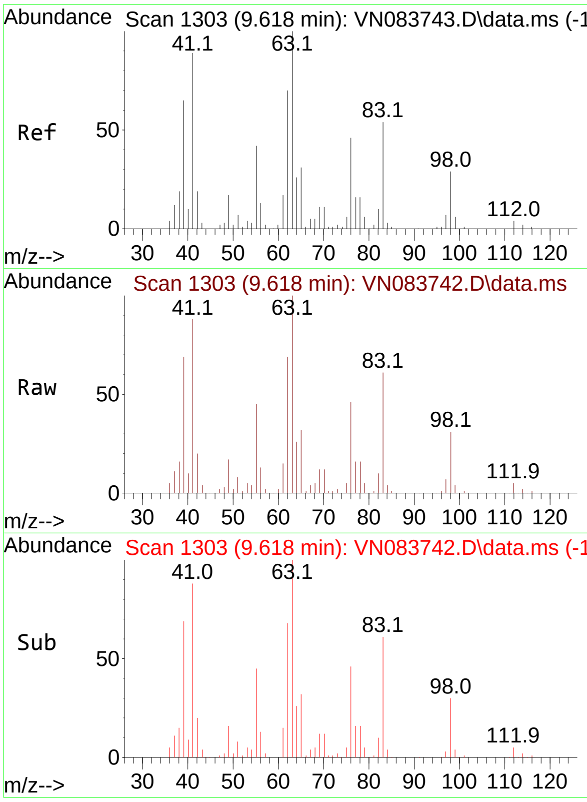


#44
Trichloroethene
Concen: 96.327 ug/l
RT: 9.347 min   Scan# 1257
Delta R.T.   -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024   09:08

Tgt Ion:130 Resp: 197536

Ion	Ratio	Lower	Upper
130	100		
95	107.3	0.0	200.4





#45
1,2-Dichloropropane
Concen: 96.423 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 63 Resp: 20637

Ion	Ratio	Lower	Upper
63	100		
65	32.5	25.9	38.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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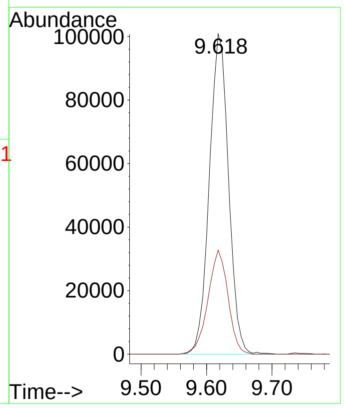
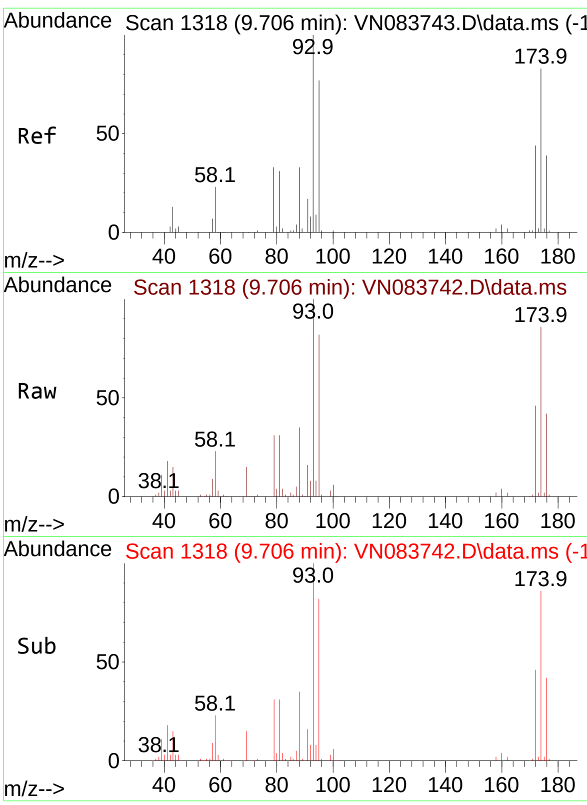


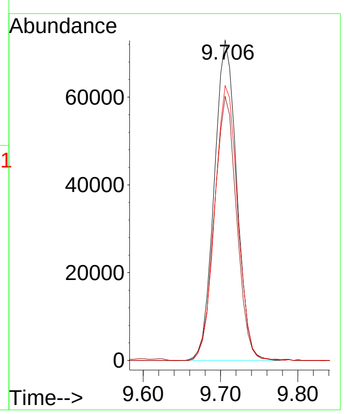
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#46
Dibromomethane
Concen: 98.695 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 93 Resp: 147957

Ion	Ratio	Lower	Upper
93	100		
95	81.6	65.3	97.9
174	87.2	71.0	106.4



Instrument : MSVOA_N
ClientSampleId : VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
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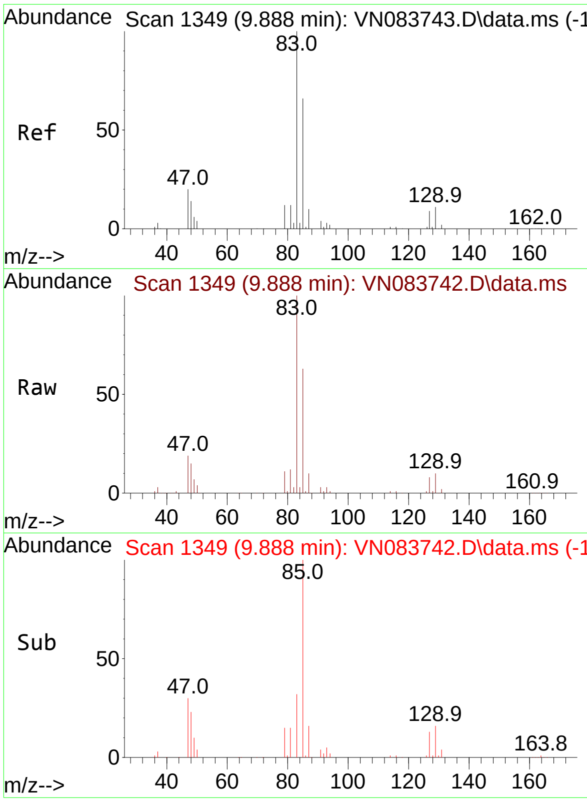
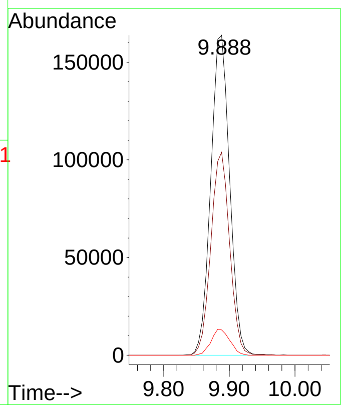
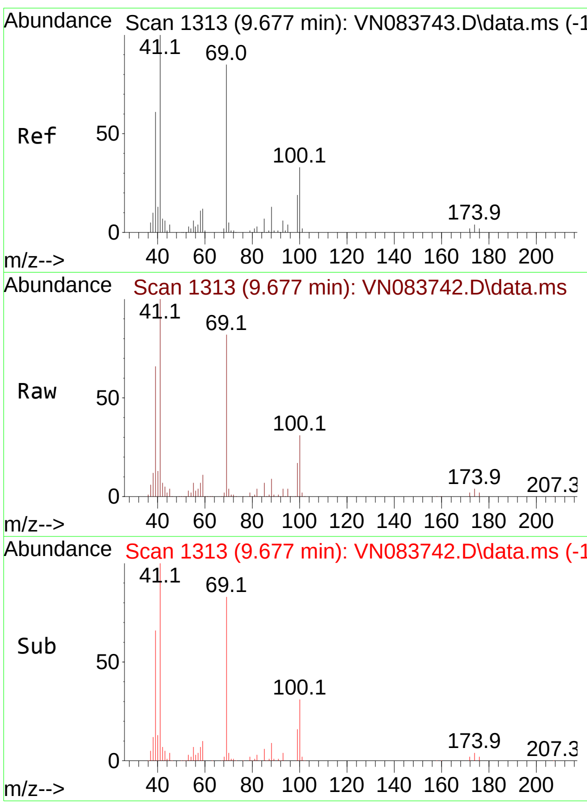


#47
Bromodichloromethane
Concen: 100.891 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 83 Resp: 32733

Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.8	77.8
127	7.9	6.6	9.8

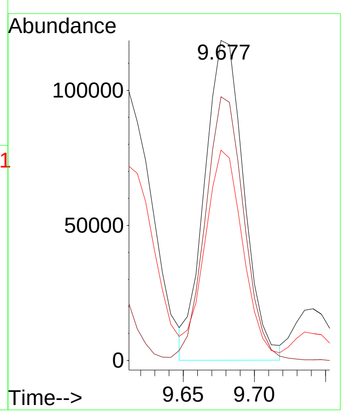


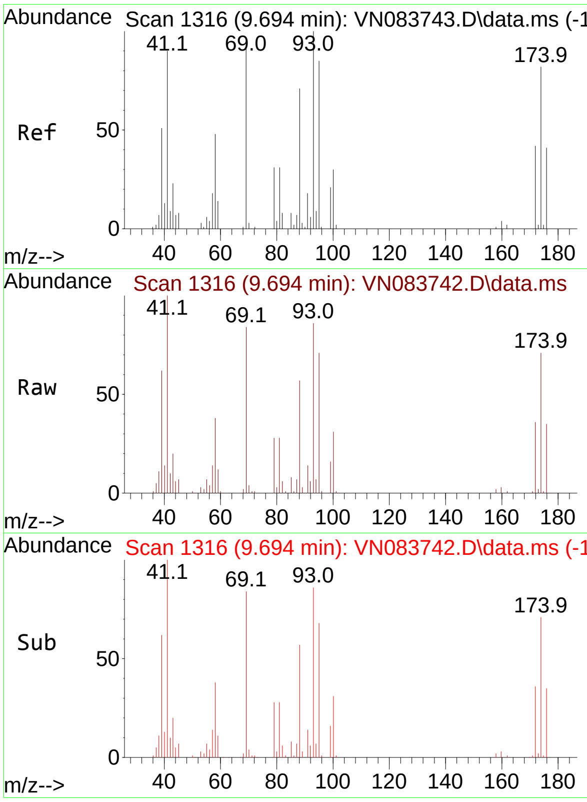


#48
Methyl methacrylate
Concen: 98.898 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 41 Resp: 227071

Ion	Ratio	Lower	Upper
41	100		
69	81.1	64.3	96.5
39	64.3	48.9	73.3





#49
1,4-Dioxane
Concen: 1811.632 ug/l
RT: 9.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 6842

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	72.3	57.1	85.7

Manual Integrations APPROVED

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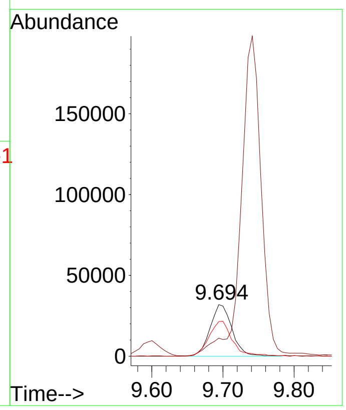

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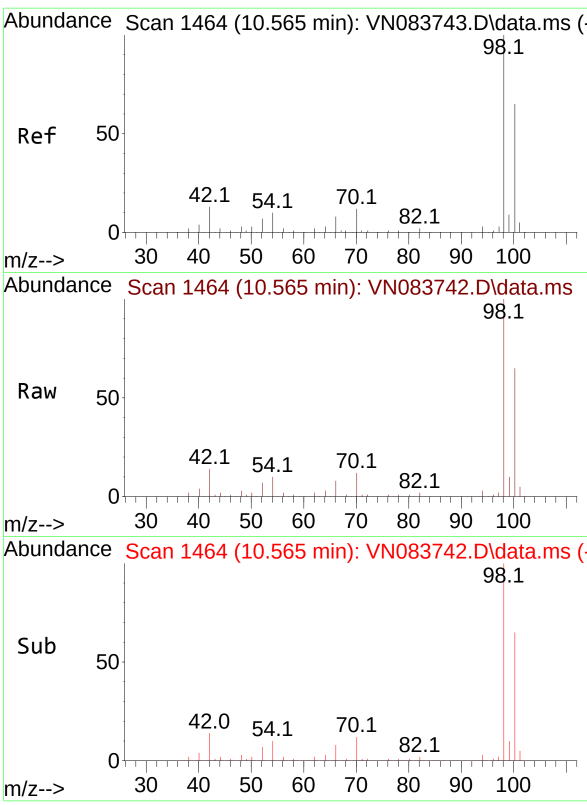
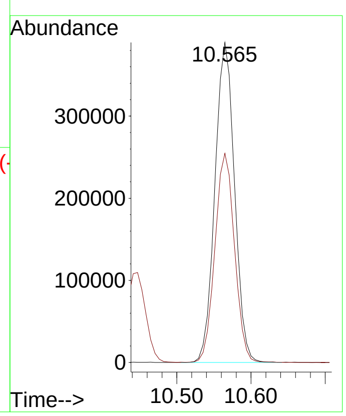


#50
Toluene-d8
Concen: 105.896 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 98 Resp: 715598

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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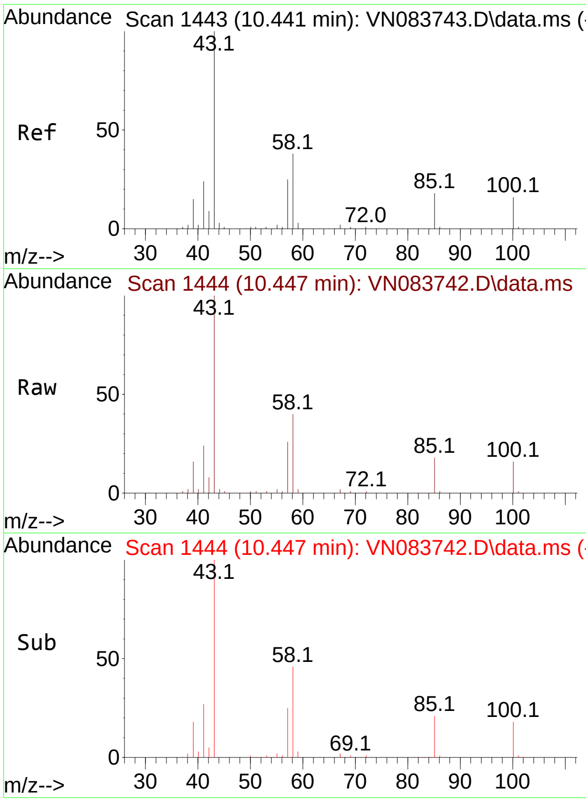
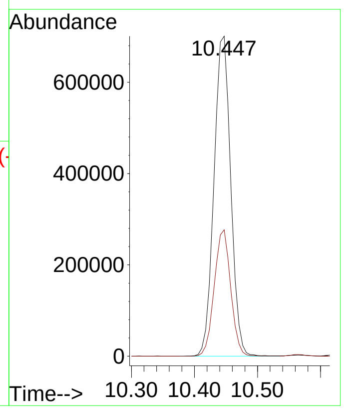
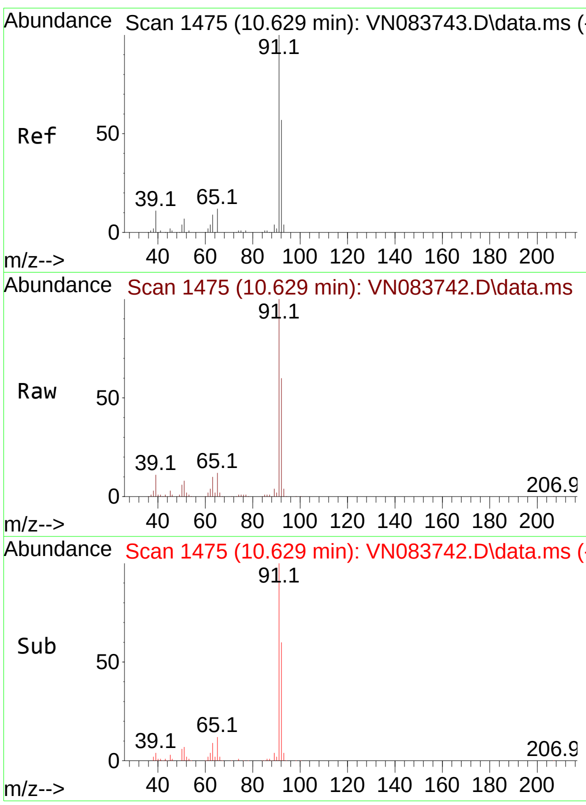


#51
4-Methyl-2-Pentanone
Concen: 491.701 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 43 Resp: 129531

Ion	Ratio	Lower	Upper
43	100		
58	38.8	31.6	47.4

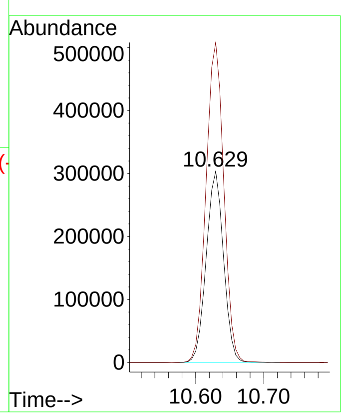




#52
Toluene
Concen: 99.513 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 92 Resp: 539024

Ion	Ratio	Lower	Upper
92	100		
91	171.1	134.7	202.1



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument : MSVOA_N
ClientSampleId : VSTDICC100

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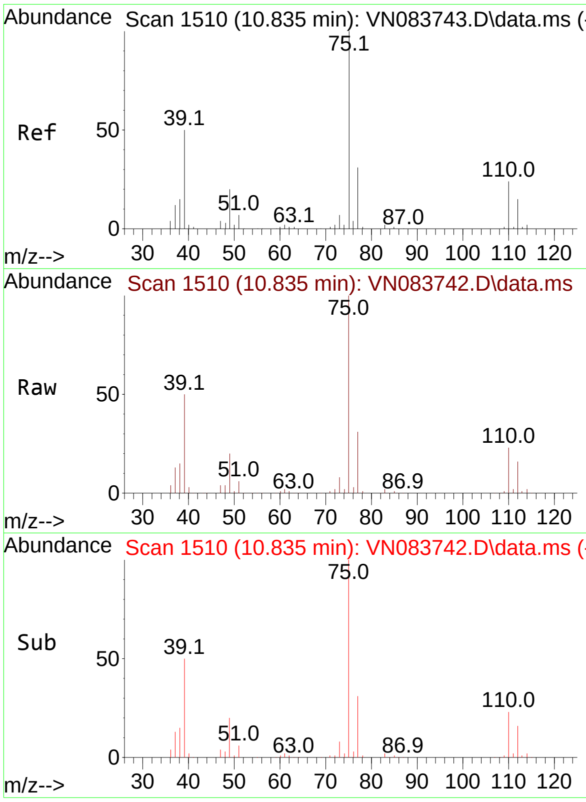
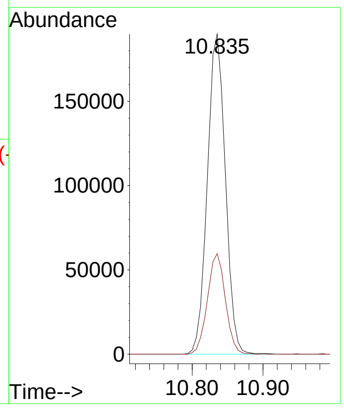
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

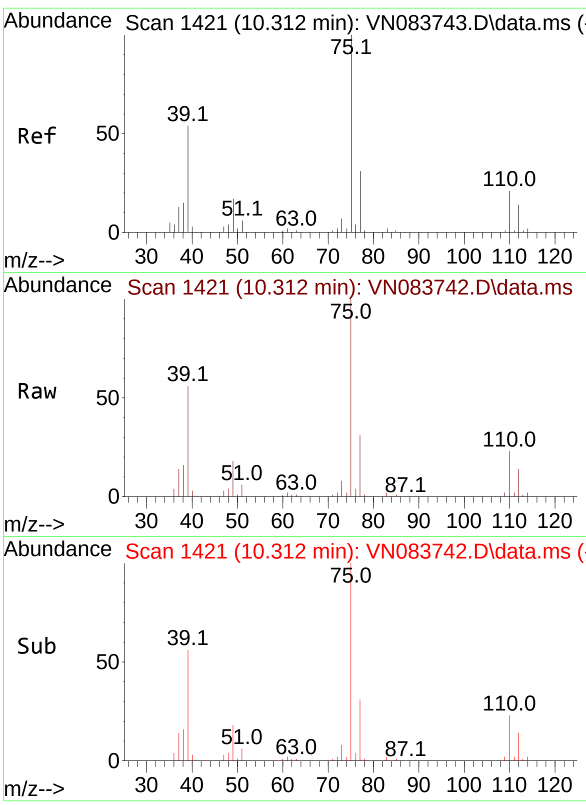


#53
t-1,3-Dichloropropene
Concen: 102.158 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 75 Resp: 33595

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6

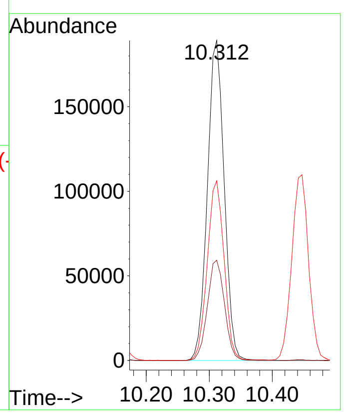


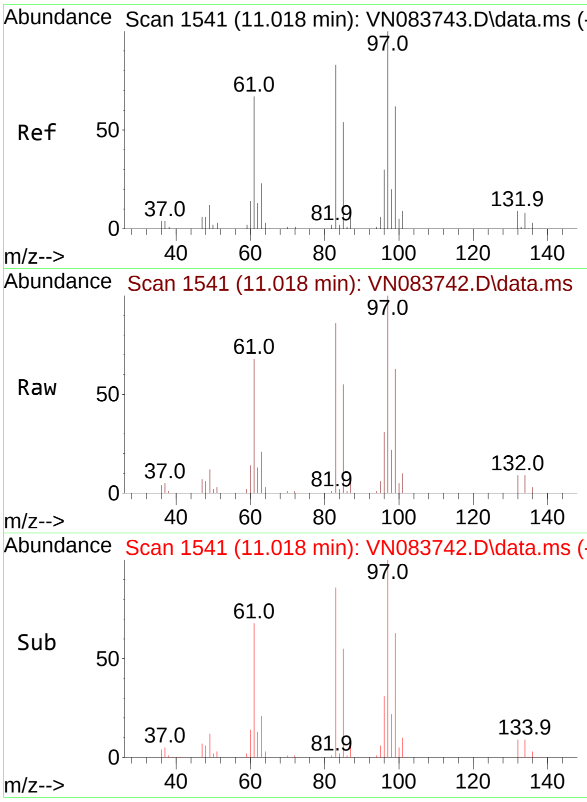


#54
cis-1,3-Dichloropropene
Concen: 101.521 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 75 Resp: 350699

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.6
39	56.2	42.6	64.0

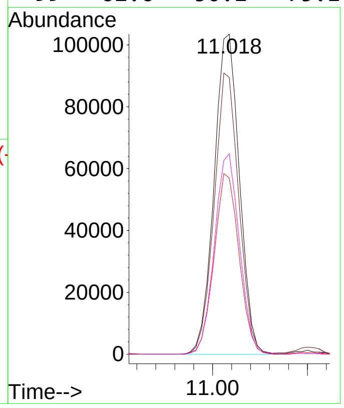




#55
1,1,2-Trichloroethane
Concen: 94.997 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 97 Resp: 19210

Ion	Ratio	Lower	Upper
97	100		
83	86.5	67.5	101.3
85	55.1	44.2	66.2
99	62.6	50.1	75.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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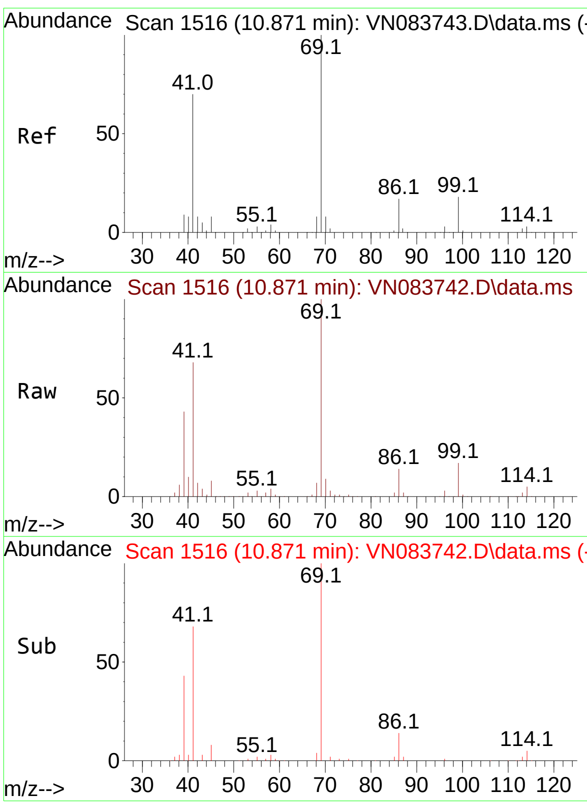
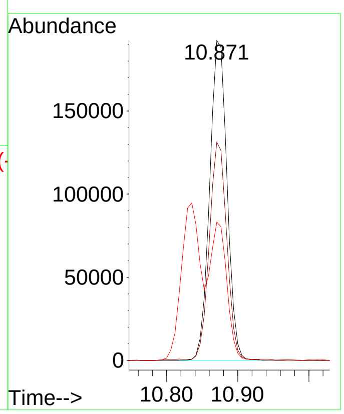


#56
Ethyl methacrylate
Concen: 105.392 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 69 Resp: 327895

Ion	Ratio	Lower	Upper
69	100		
41	68.1	53.9	80.9
39	42.1	32.6	48.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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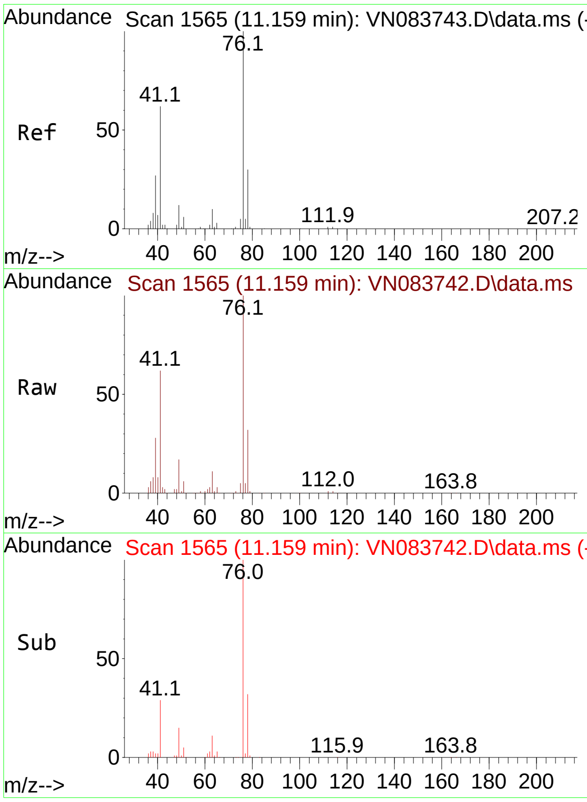
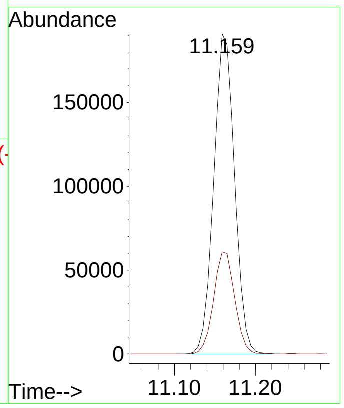
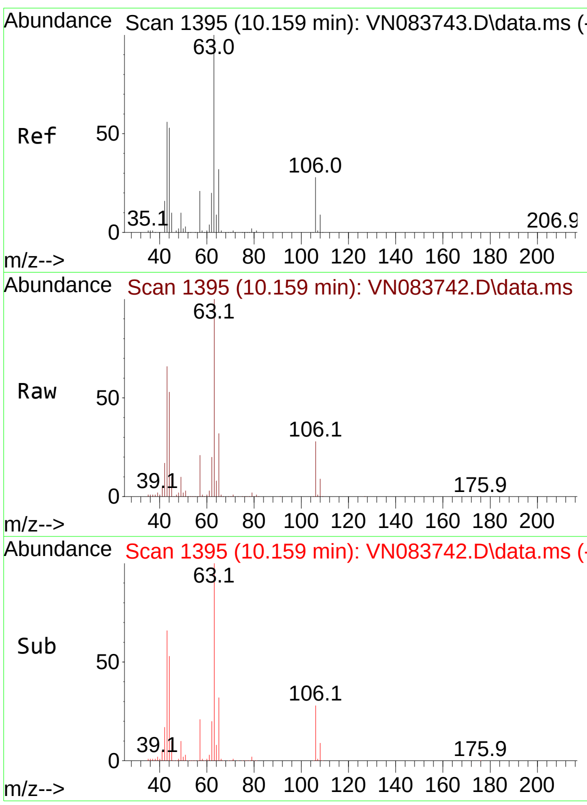


#57
1,3-Dichloropropane
Concen: 97.921 ug/l
RT: 11.159 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 76 Resp: 34032

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.6

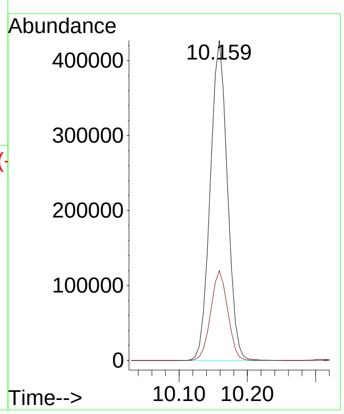


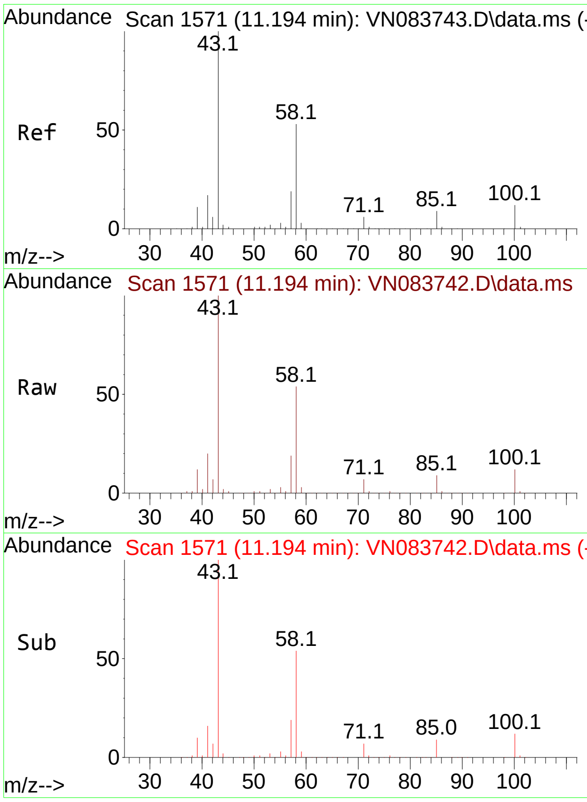


#58
2-Chloroethyl Vinyl ether
Concen: 666.516 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 63 Resp: 747188

Ion	Ratio	Lower	Upper
63	100		
106	27.7	23.3	34.9





#59
2-Hexanone
Concen: 494.210 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 43 Resp: 96306

Ion	Ratio	Lower	Upper
43	100		
58	53.8	27.2	81.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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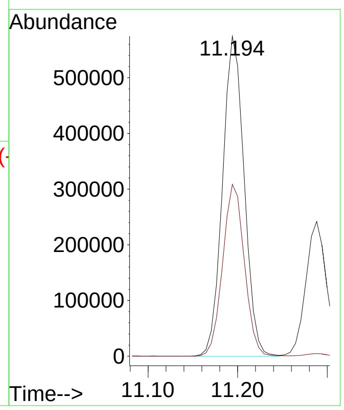

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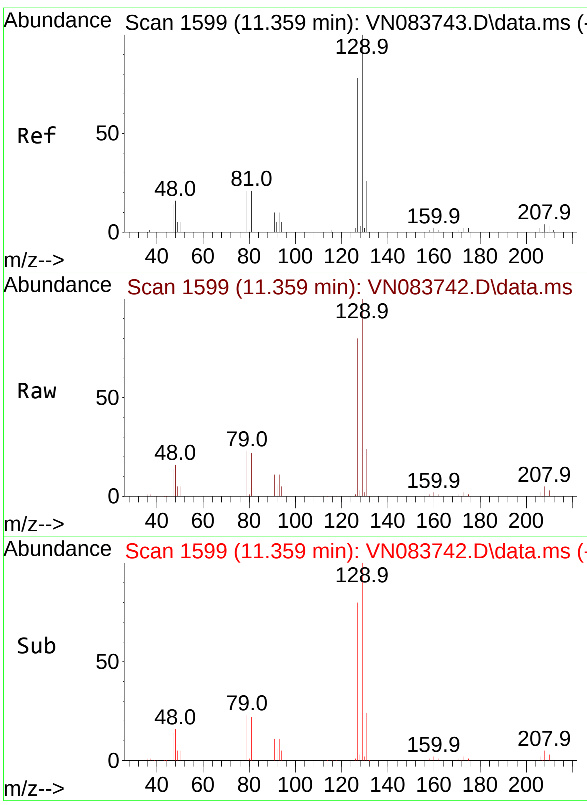
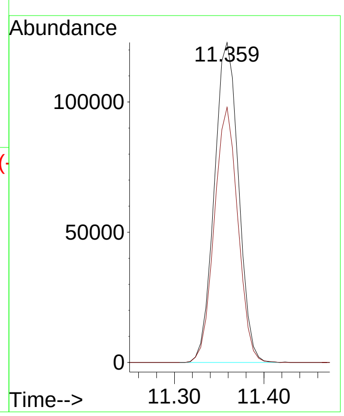


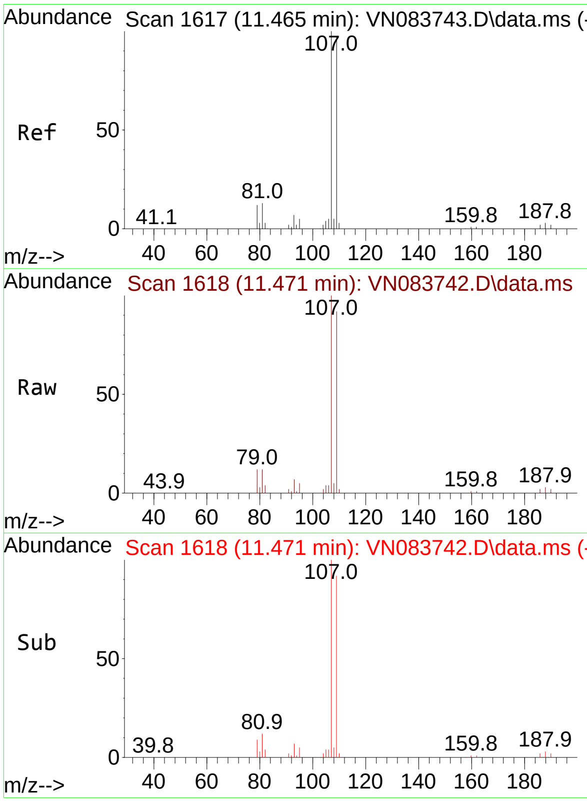
#60
Dibromochloromethane
Concen: 102.022 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:129 Resp: 230885

Ion	Ratio	Lower	Upper
129	100		
127	77.7	39.0	116.9



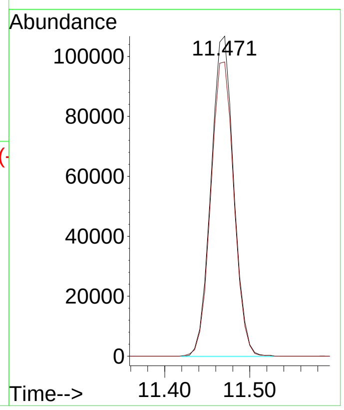
ICAL Form



#61
1,2-Dibromoethane
Concen: 97.978 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:107 Resp: 19759

Ion	Ratio	Lower	Upper
107	100		
109	93.2	75.6	113.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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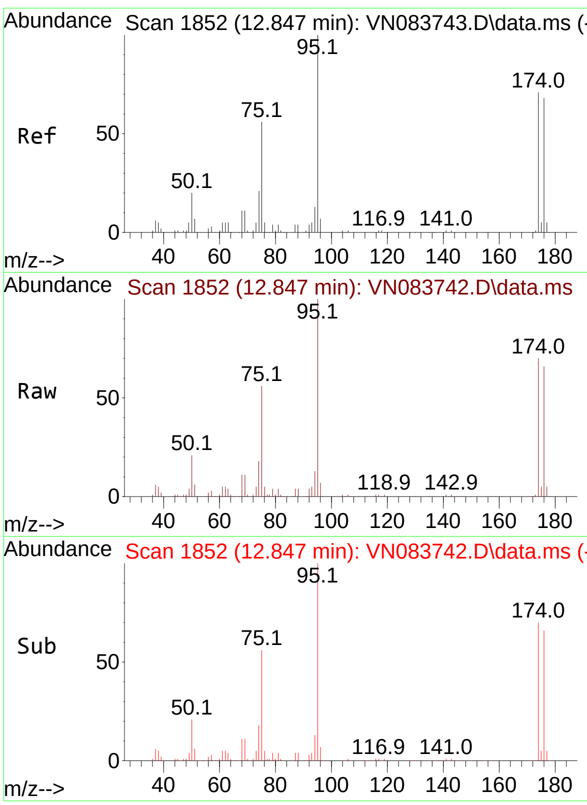
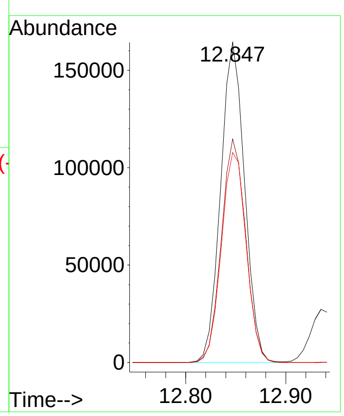


#62
4-Bromofluorobenzene
Concen: 98.025 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 95 Resp: 273293

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	139.8
176	67.9	0.0	131.4



Instrument : MSVOA_N
ClientSampleId : VSTDICC100

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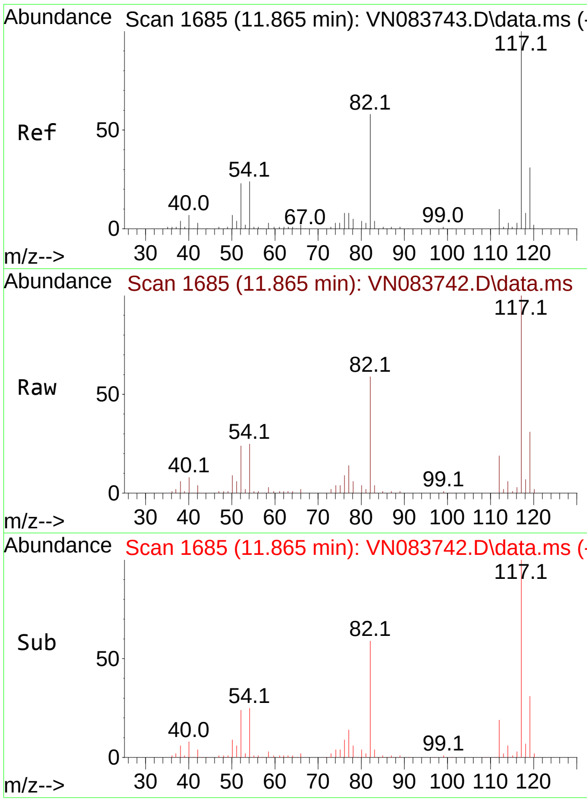
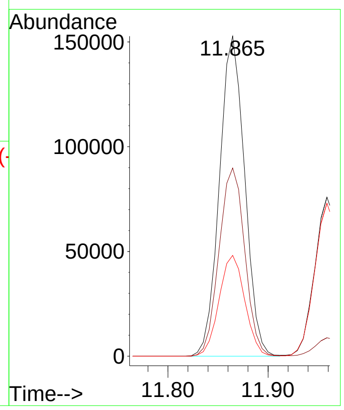
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

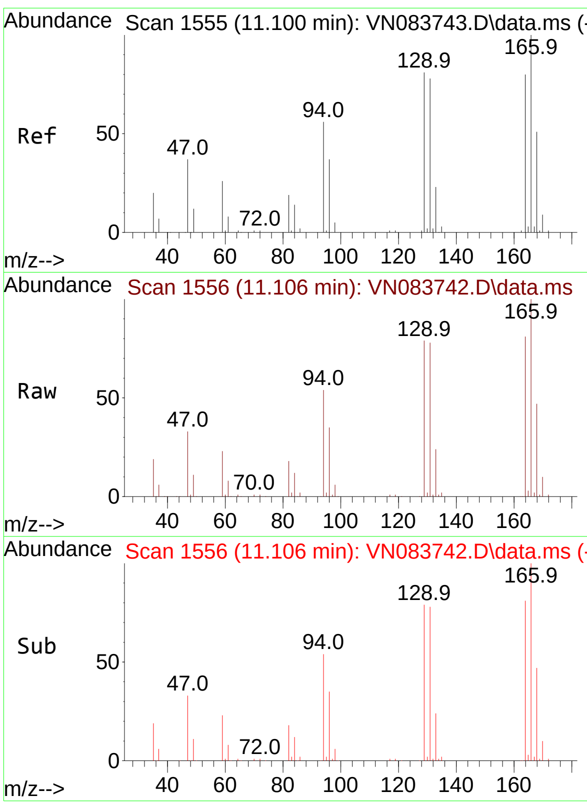


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:117 Resp: 26784

Ion	Ratio	Lower	Upper
117	100		
82	58.8	47.4	71.0
119	31.5	26.3	39.5

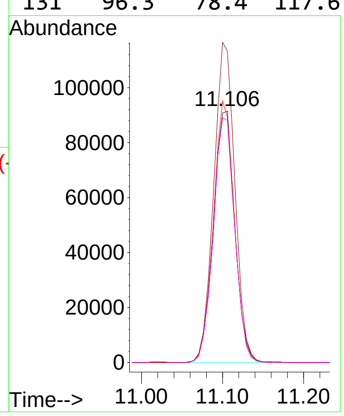




#64
Tetrachloroethene
Concen: 94.271 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:164 Resp: 167917

Ion	Ratio	Lower	Upper
164	100		
166	123.9	103.7	155.5
129	97.7	79.9	119.9
131	96.3	78.4	117.6



Instrument : MSVOA_N
ClientSampleId : VSTDICC100

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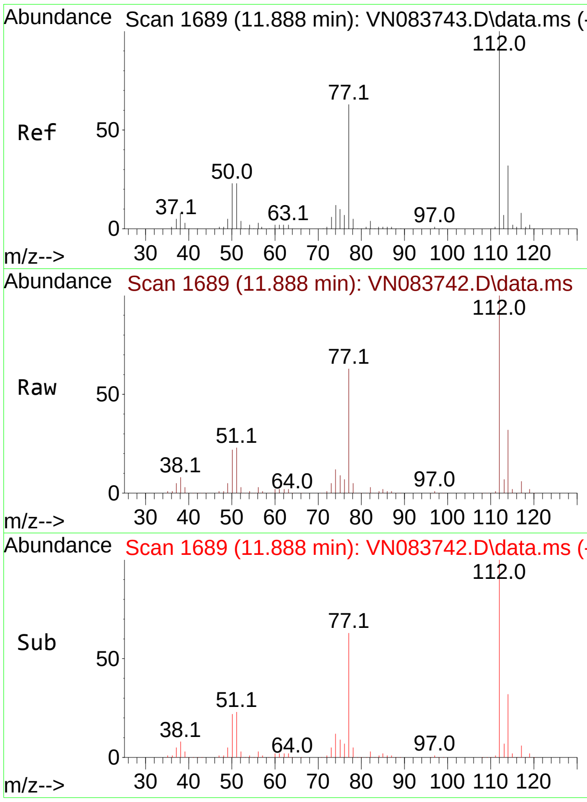
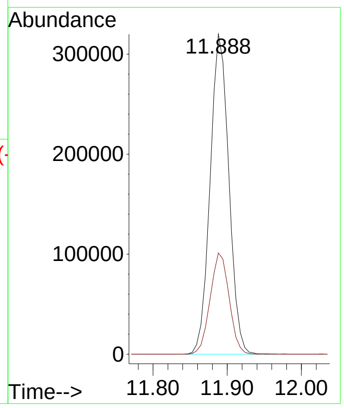
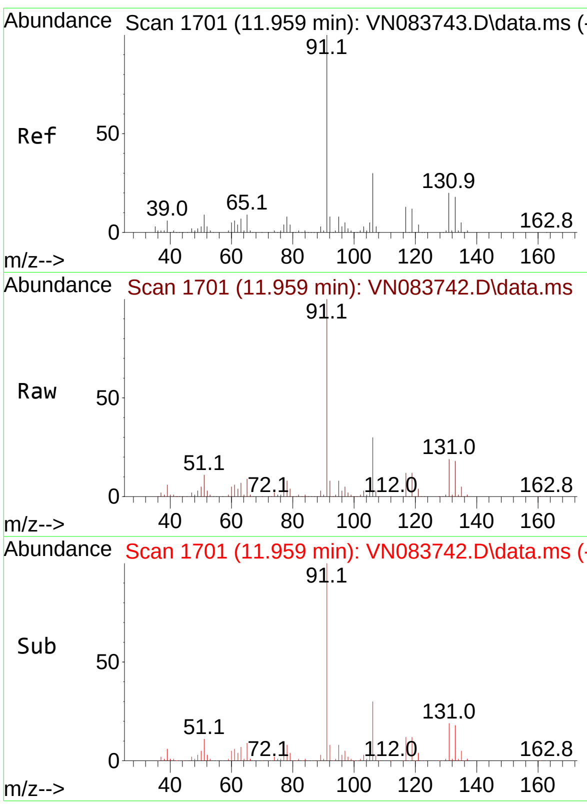



```
#65
Chlorobenzene
Concen:   94.145 ug/l
RT:  11.888 min   Scan# 1
Delta R.T.   -0.000 min
Lab File:    VN083742.D
Acq: 10 Sep 2024   09:08

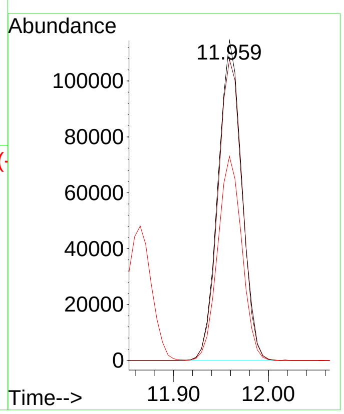
Tgt Ion:112 Resp:   56044
Ion   Ratio   Lower   Upper
112   100
114    31.7    25.7    38.5
```

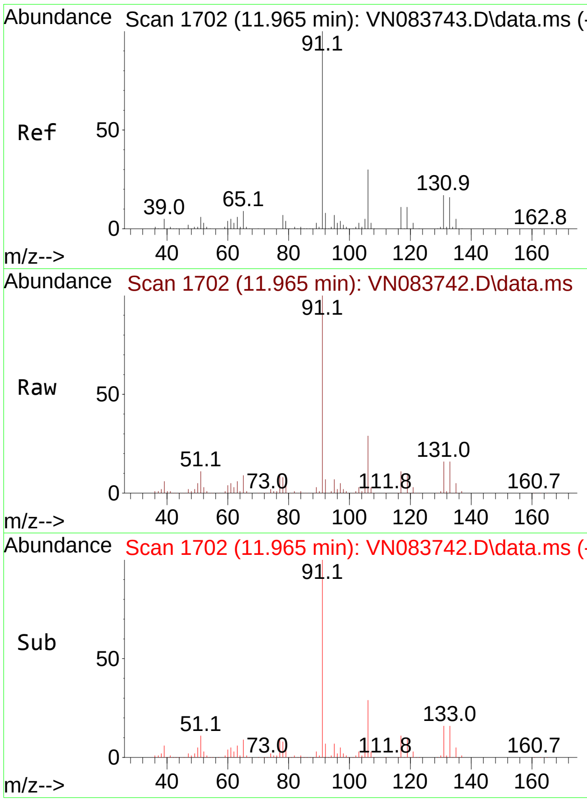





```
#66
1,1,1,2-Tetrachloroethane
Concen:   97.460 ug/l
RT:  11.959 min   Scan# 1701
Delta R.T.   -0.000 min
Lab File:    VN083742.D
Acq: 10 Sep 2024   09:08

Tgt Ion:131 Resp:   201130
Ion   Ratio   Lower   Upper
131   100
133    95.7    47.5   142.6
119    64.5    31.6    94.8
```





#67
Ethyl Benzene
Concen: 100.561 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 91 Resp: 106343

Ion	Ratio	Lower	Upper
91	100		
106	29.4	24.3	36.5

Instrument : MSVOA_N
ClientSampleId : VSTDICC100

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Reviewed By :John Carlone 09/11/2024
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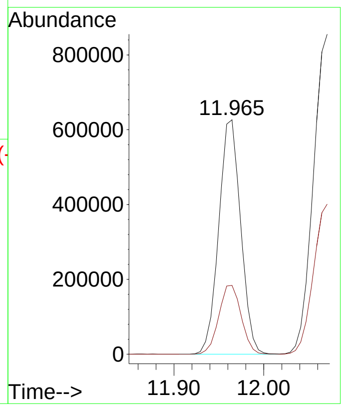
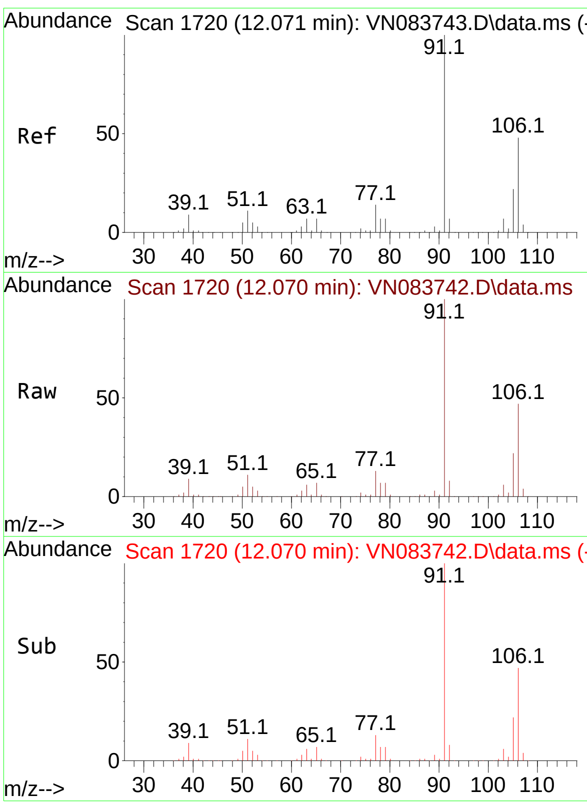
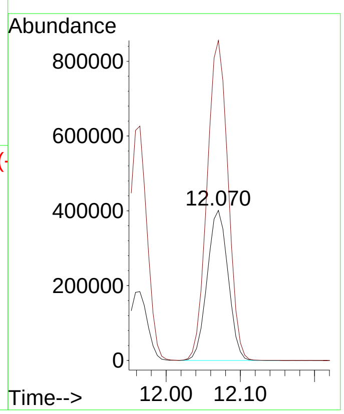


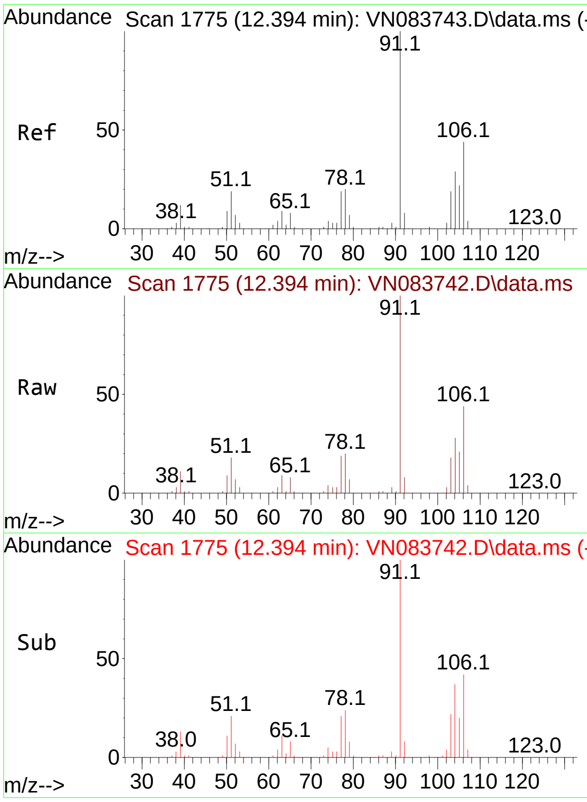


#68
m/p-Xylenes
Concen: 200.232 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:106 Resp: 786134

Ion	Ratio	Lower	Upper
106	100		
91	213.5	169.2	253.8





#69
o-Xylene
Concen: 99.660 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:106 Resp: 37878

Ion	Ratio	Lower	Upper
106	100		
91	226.6	112.9	338.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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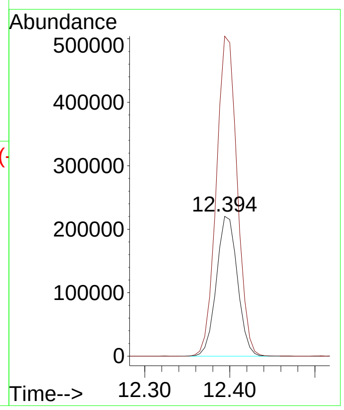
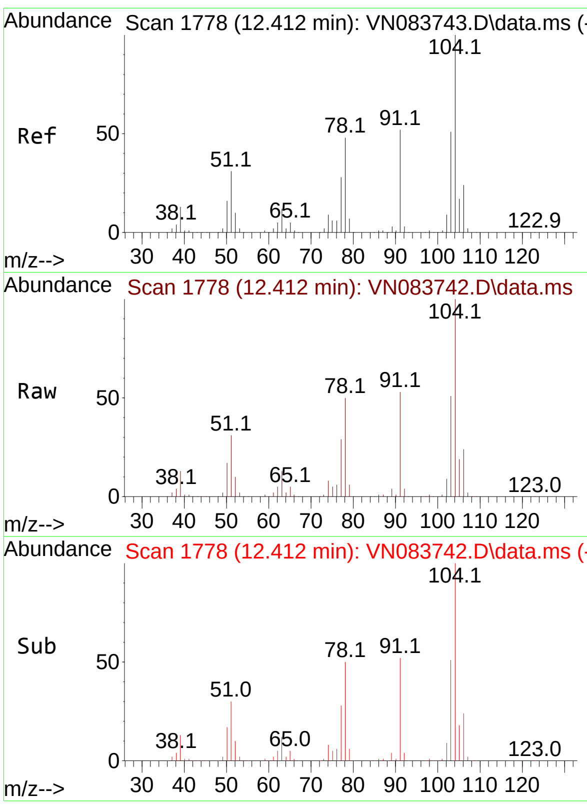
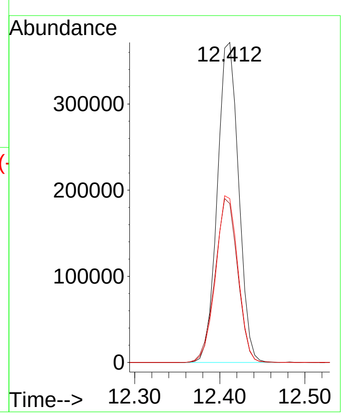


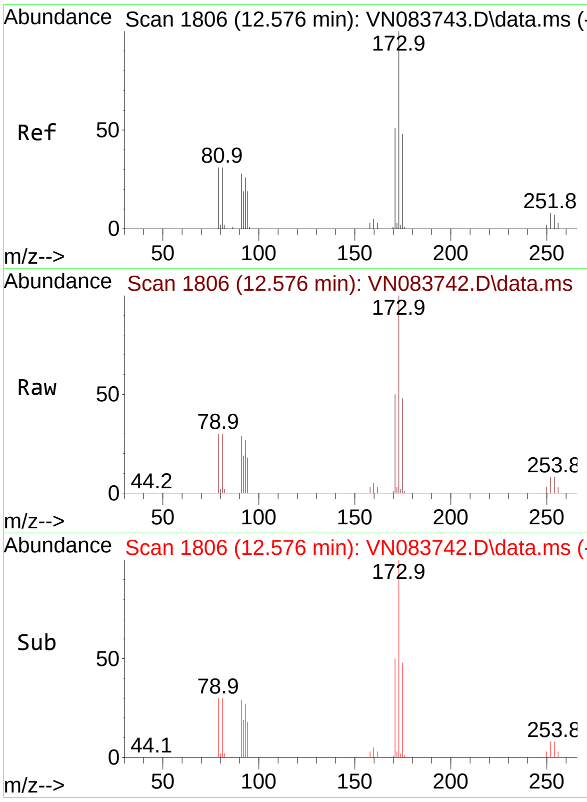


#70
Styrene
Concen: 103.715 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:104 Resp: 646938

Ion	Ratio	Lower	Upper
104	100		
78	54.3	43.3	64.9
103	54.8	43.4	65.2

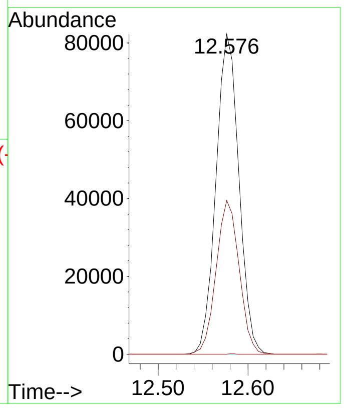




#71
Bromoform
Concen: 104.798 ug/l
RT: 12.576 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:173 Resp: 145739

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.1	72.2
254	0.0	0.0	0.0#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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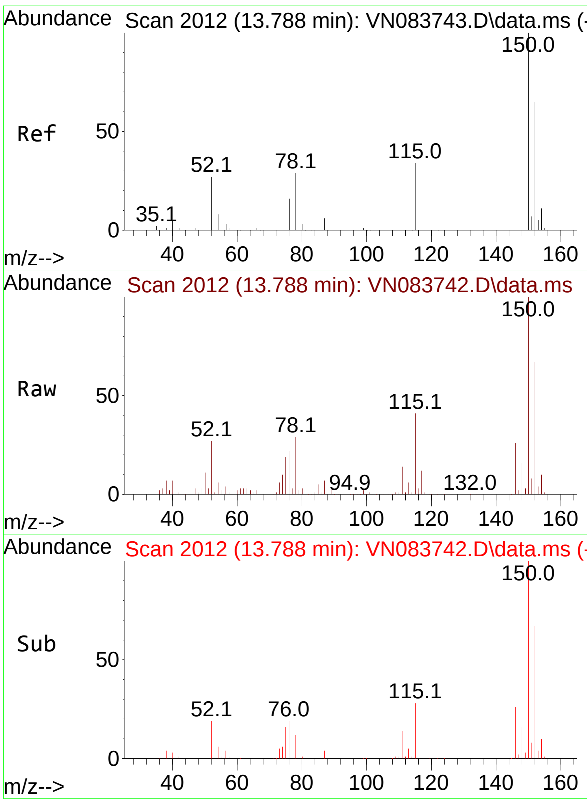
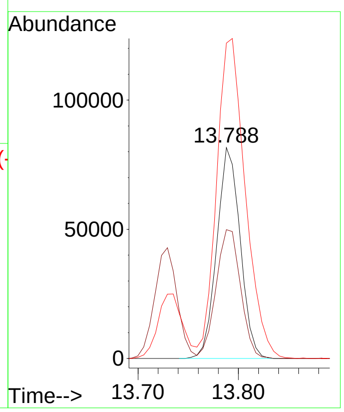
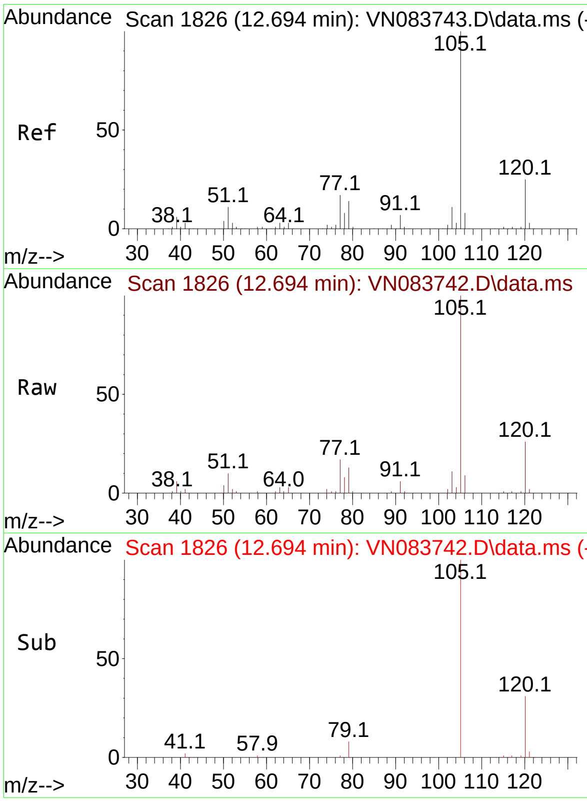


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:152 Resp: 131982

Ion	Ratio	Lower	Upper
152	100		
115	64.2	32.2	96.6
150	186.0	0.0	348.6





#73
Isopropylbenzene
Concen: 99.129 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 101220

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.6	37.8

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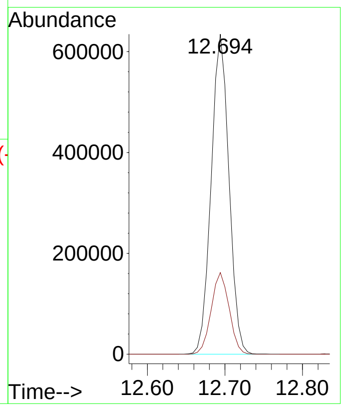
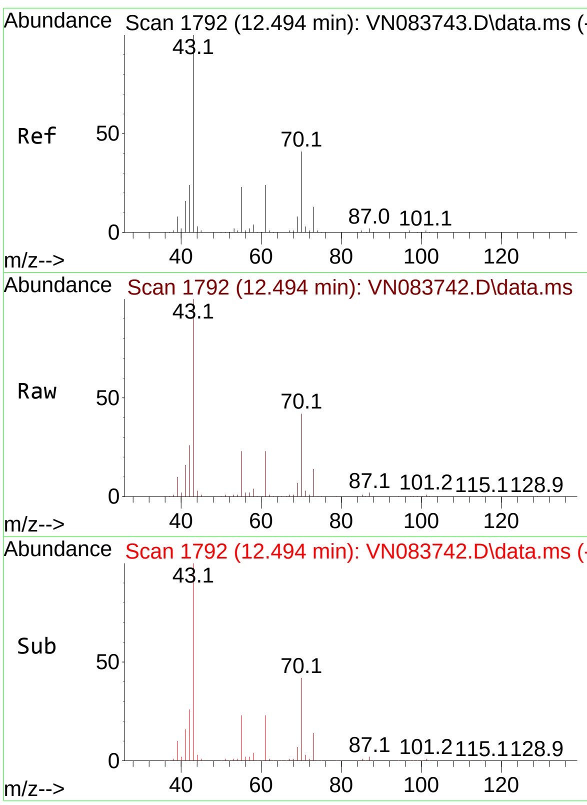
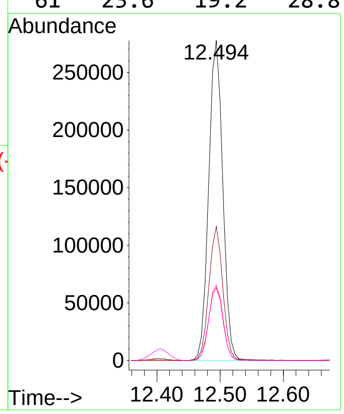




#74
N-amyl acetate
Concen: 98.846 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 43 Resp: 430629

Ion	Ratio	Lower	Upper
43	100		
70	41.2	34.5	51.7
55	23.2	18.6	28.0
61	23.6	19.2	28.8



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument : MSVOA_N
ClientSampleId : VSTDICC100

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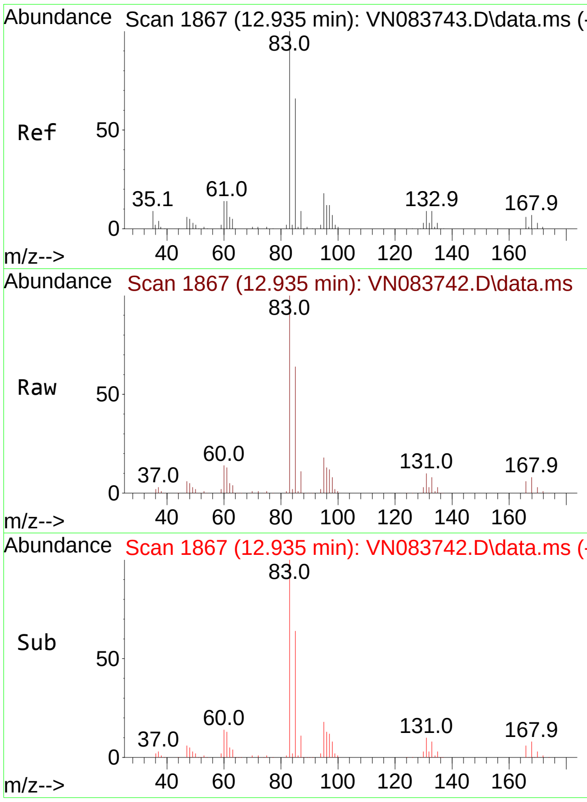
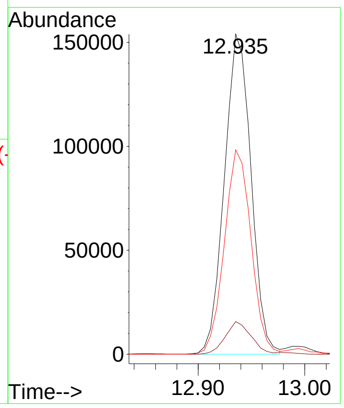
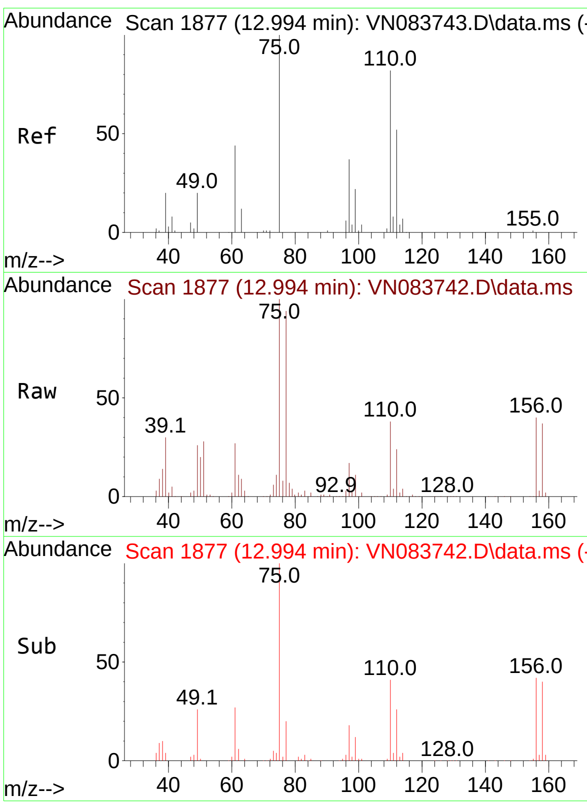


#75
1,1,2,2-Tetrachloroethane
Concen: 89.333 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 83 Resp: 26801

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.2	15.6
85	64.0	31.9	95.9

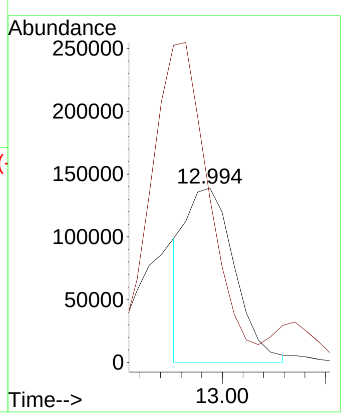




#76
1,2,3-Trichloropropane
Concen: 86.812 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 75 Resp: 231193

Ion	Ratio	Lower	Upper
75	100		
77	218.4	95.2	285.6



Instrument : MSVOA_N
ClientSampleId : VSTDICC100

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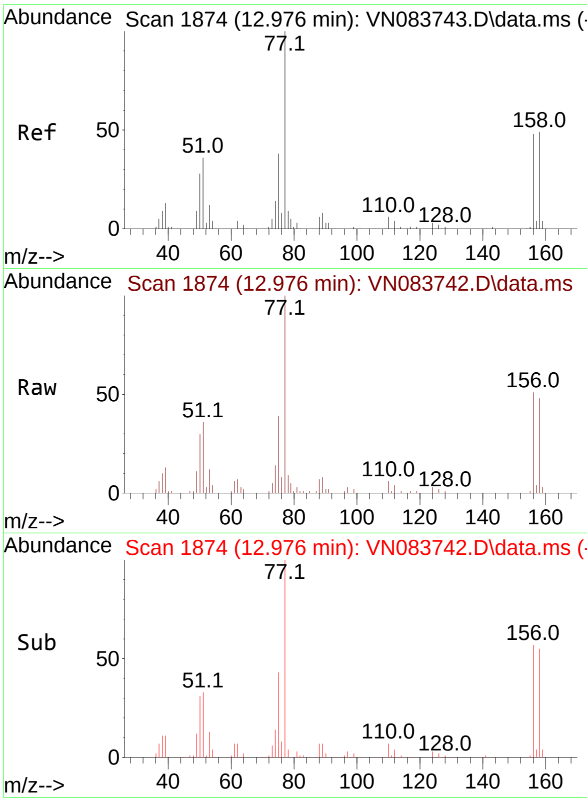
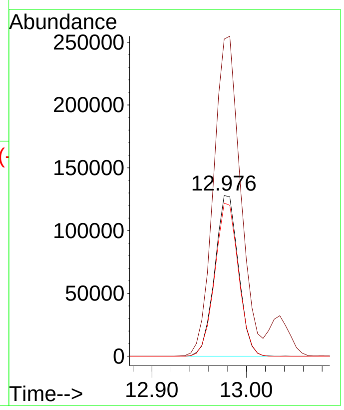
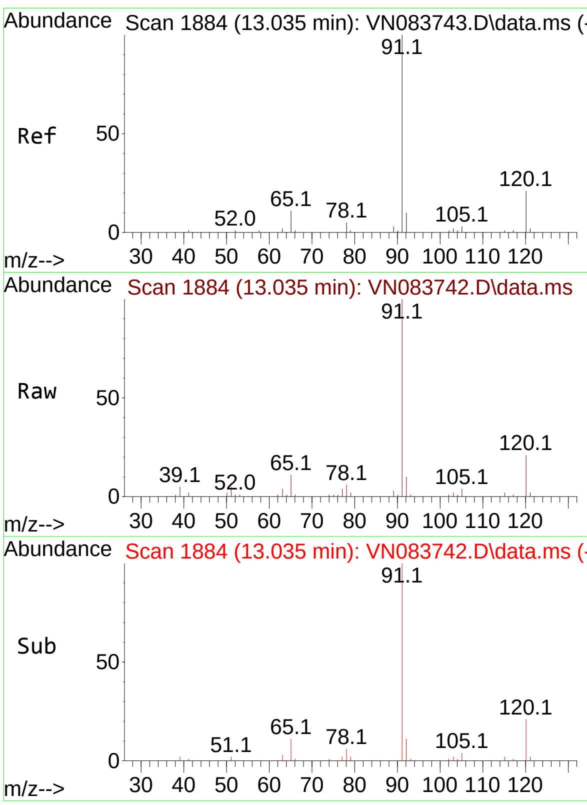


#77
Bromobenzene
Concen: 90.289 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:156 Resp: 22192

Ion	Ratio	Lower	Upper
156	100		
77	227.5	114.3	343.1
158	95.3	48.9	146.7

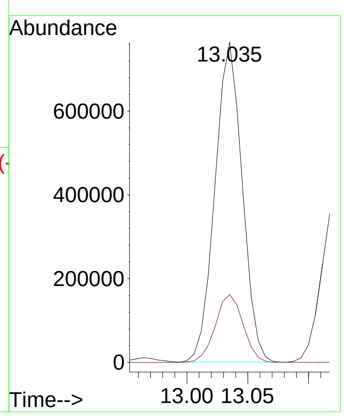




#78
n-propylbenzene
Concen: 100.345 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 91 Resp: 1192155

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.0	33.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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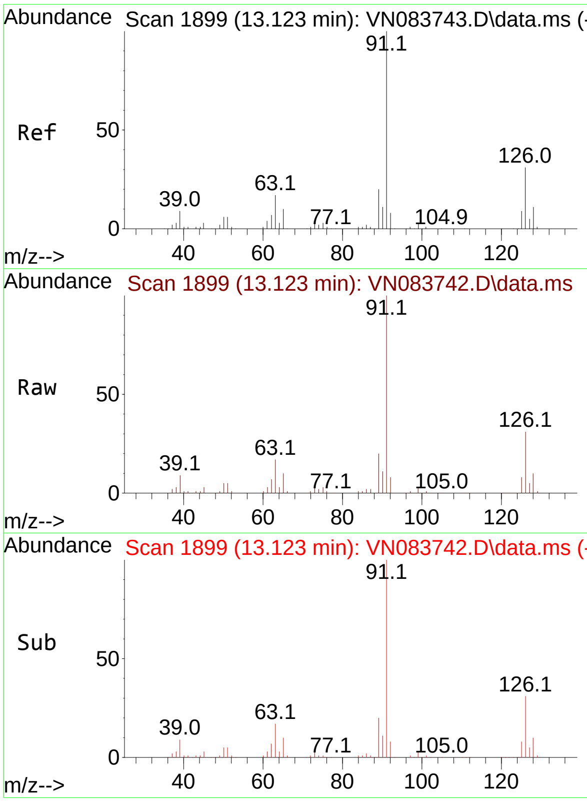
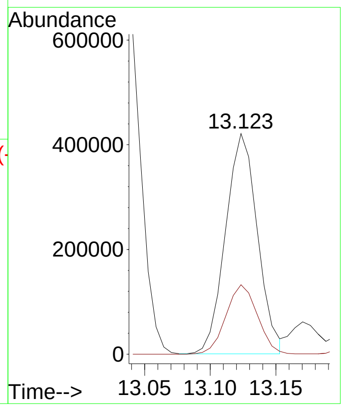
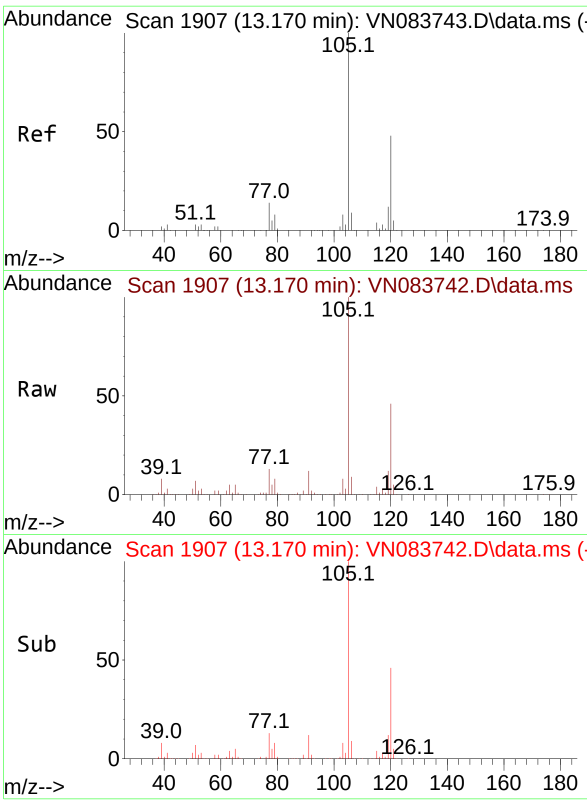


#79
2-Chlorotoluene
Concen: 94.060 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 91 Resp: 71267

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.4	46.2

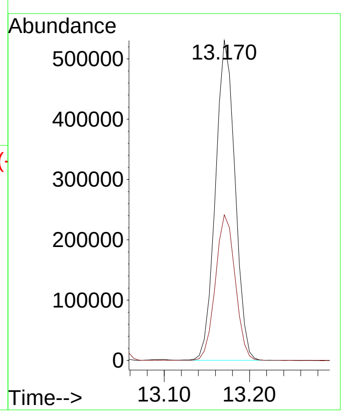


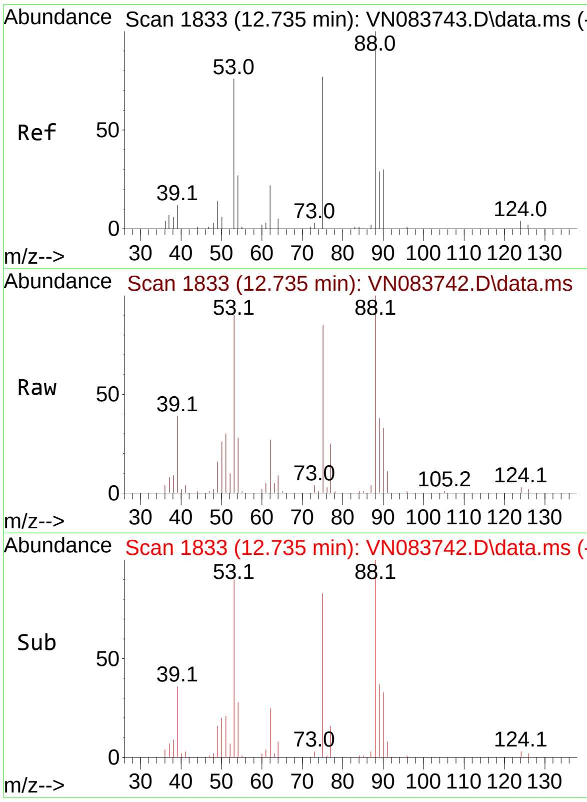


#80
1,3,5-Trimethylbenzene
Concen: 98.252 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:105 Resp: 845837

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.4	70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 100.466 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 75 Resp: 102150

Ion	Ratio	Lower	Upper
75	100		
53	107.3	81.2	121.8
89	45.0	35.7	53.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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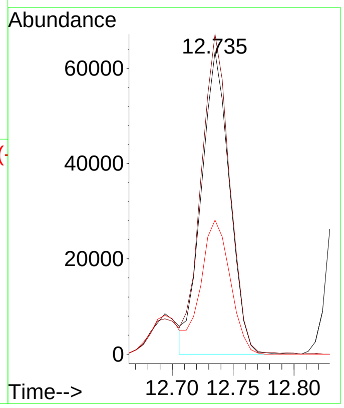
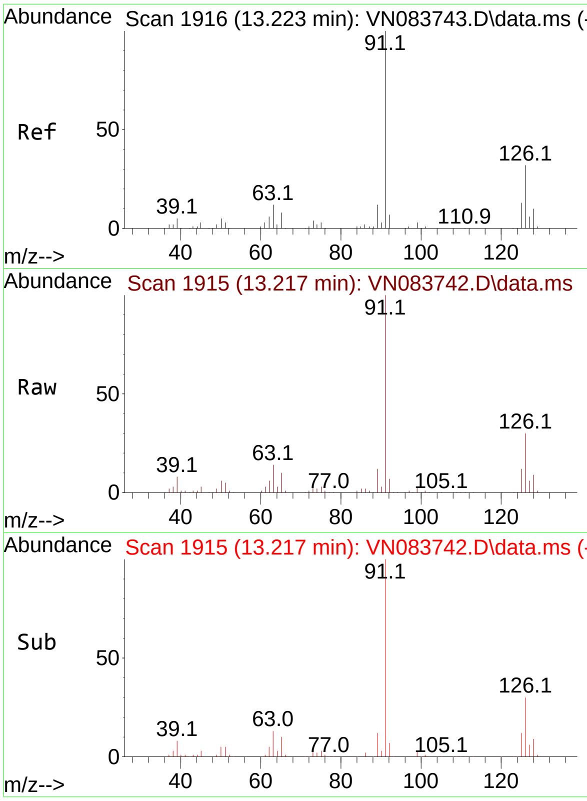
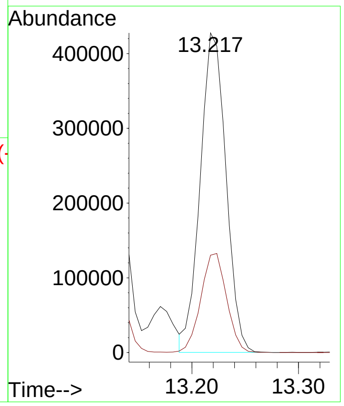


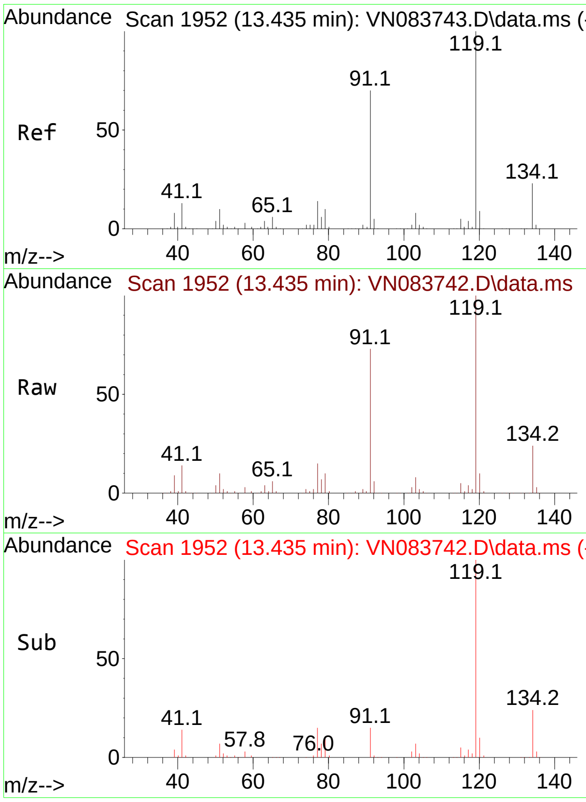


#82
4-Chlorotoluene
Concen: 94.532 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 91 Resp: 718771

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.4	46.2





#83
tert-Butylbenzene
Concen: 97.989 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

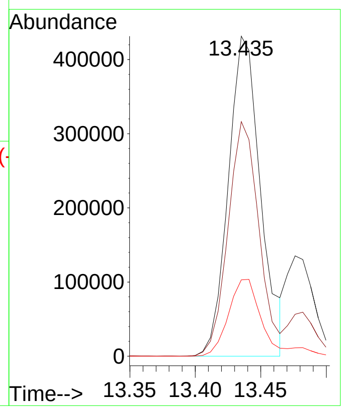
Tgt Ion:119 Resp: 73803

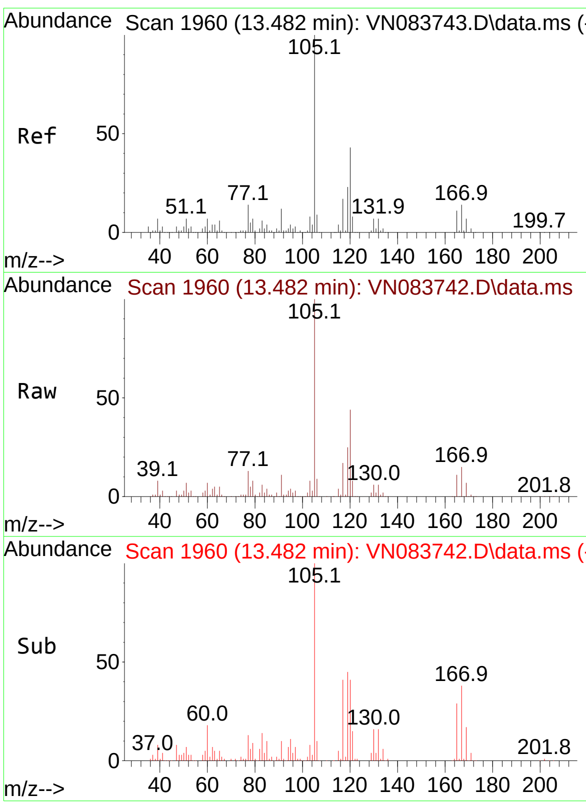
Ion	Ratio	Lower	Upper
119	100		
91	70.6	34.5	103.6
134	25.8	12.8	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

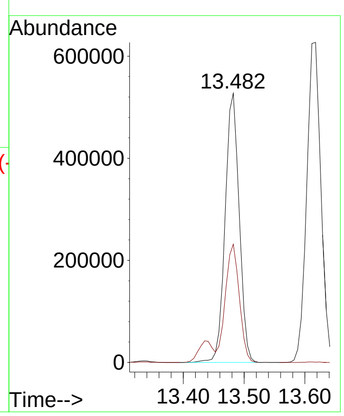




#84
1,2,4-Trimethylbenzene
Concen: 98.439 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:105 Resp: 851267

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.8	65.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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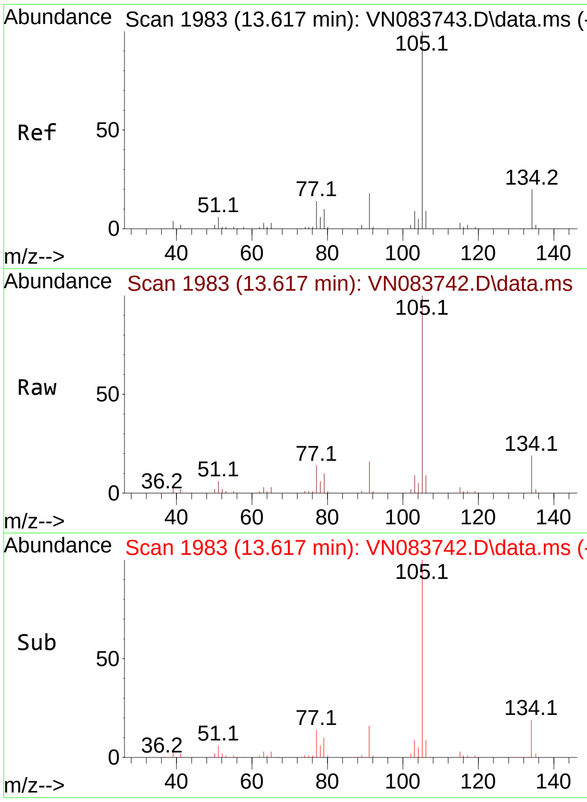
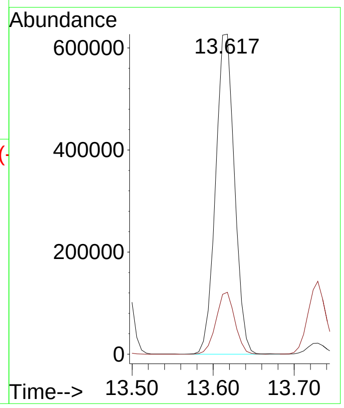
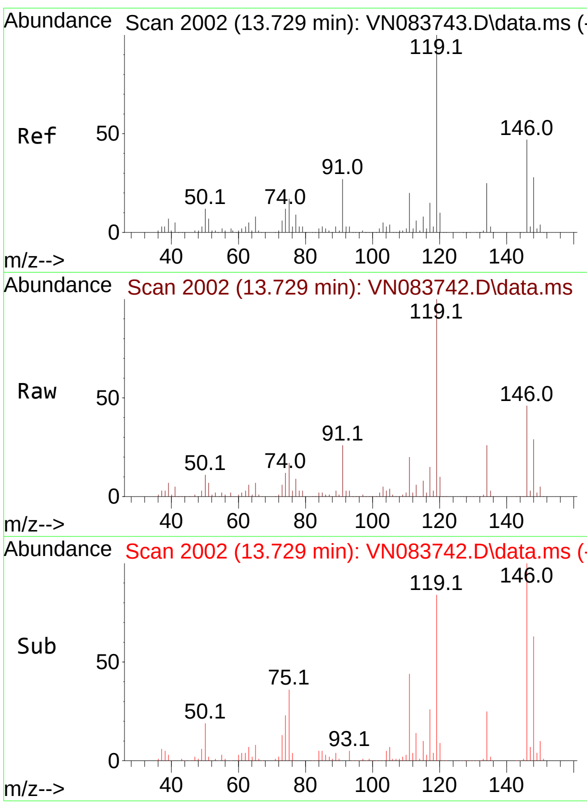


#85
sec-Butylbenzene
Concen: 101.889 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:105 Resp: 101774

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	29.1

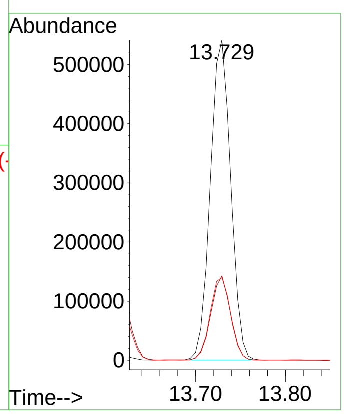




#86
p-Isopropyltoluene
Concen: 102.048 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:119 Resp: 854481

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.8	38.3
91	26.1	12.9	38.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
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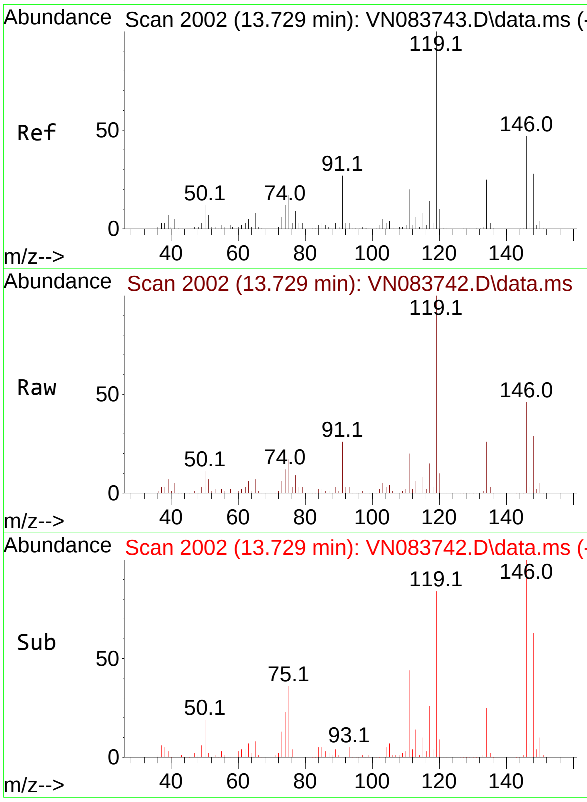
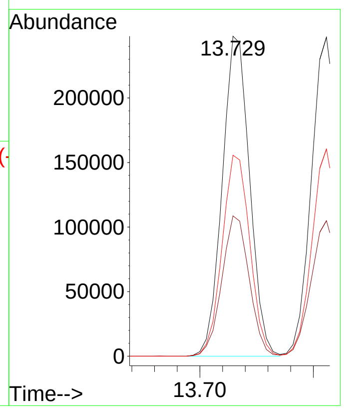
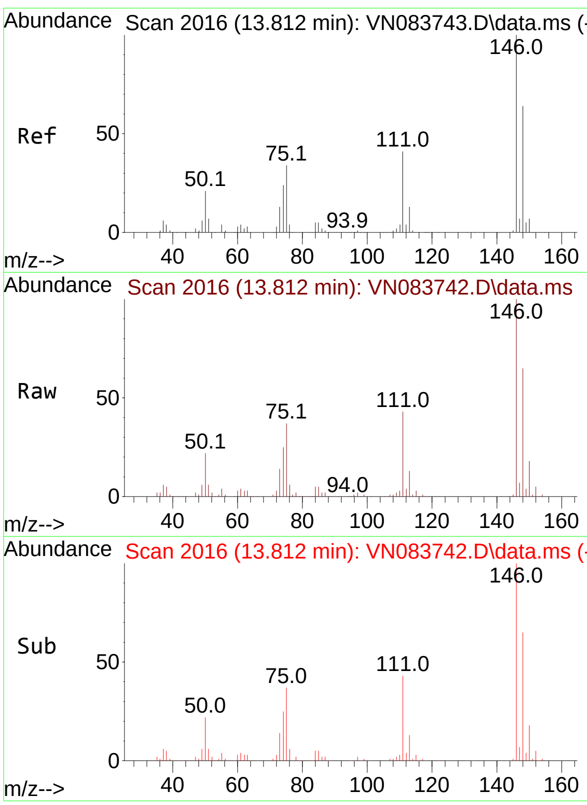


#87
1,3-Dichlorobenzene
Concen: 89.760 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:146 Resp: 41636

Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.7	65.1
148	63.6	31.7	95.1

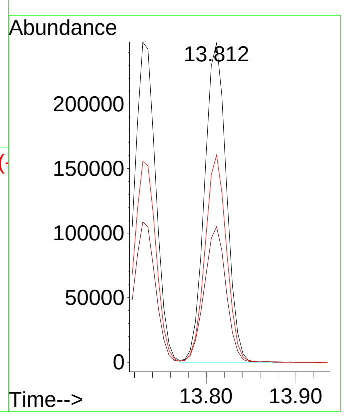


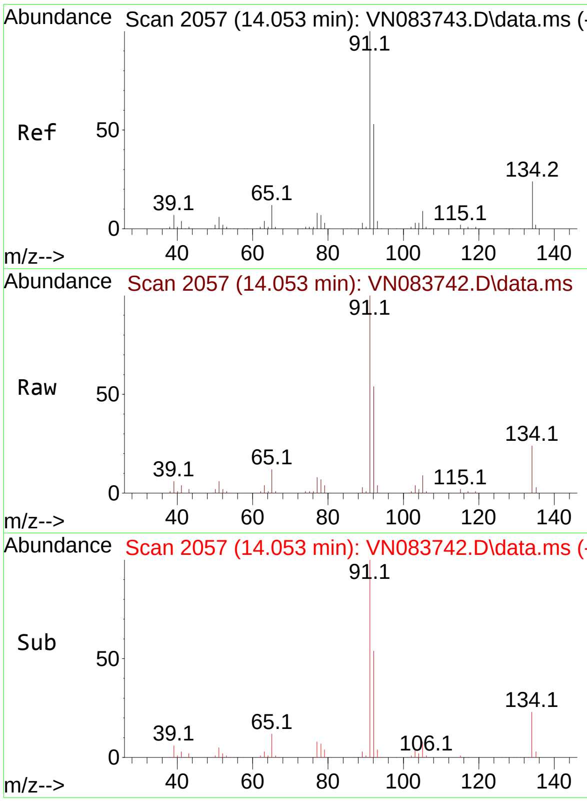


#88
1,4-Dichlorobenzene
Concen: 89.123 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:146 Resp: 418608

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.3	64.0
148	63.6	32.0	96.2

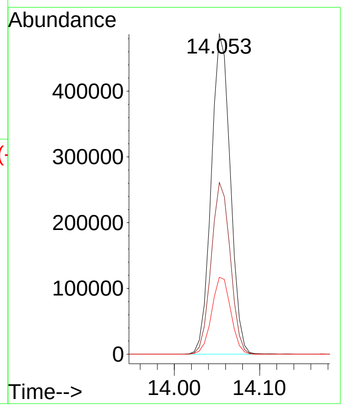




#89
n-Butylbenzene
Concen: 100.632 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 91 Resp: 75654

Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.7	80.1
134	24.1	12.2	36.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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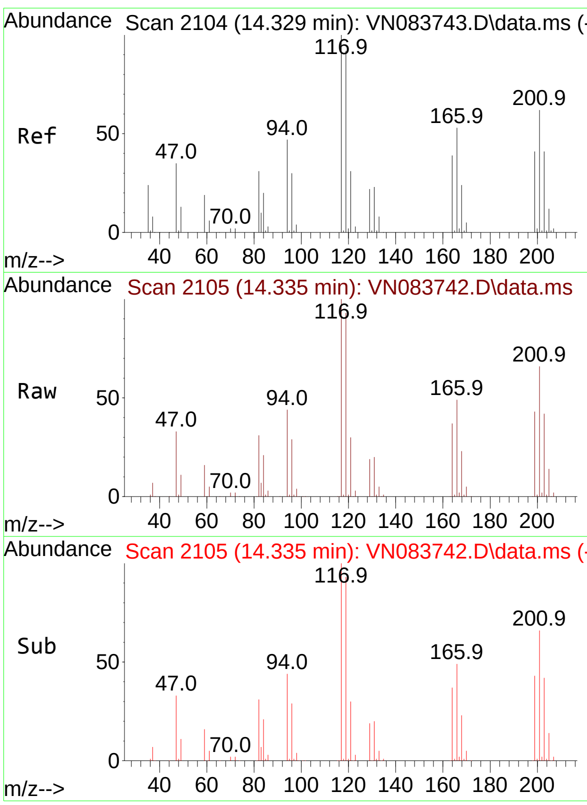
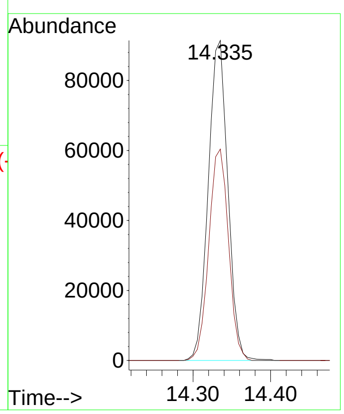


#90
Hexachloroethane
Concen: 95.312 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:117 Resp: 160428

Ion	Ratio	Lower	Upper
117	100		
201	66.5	32.8	98.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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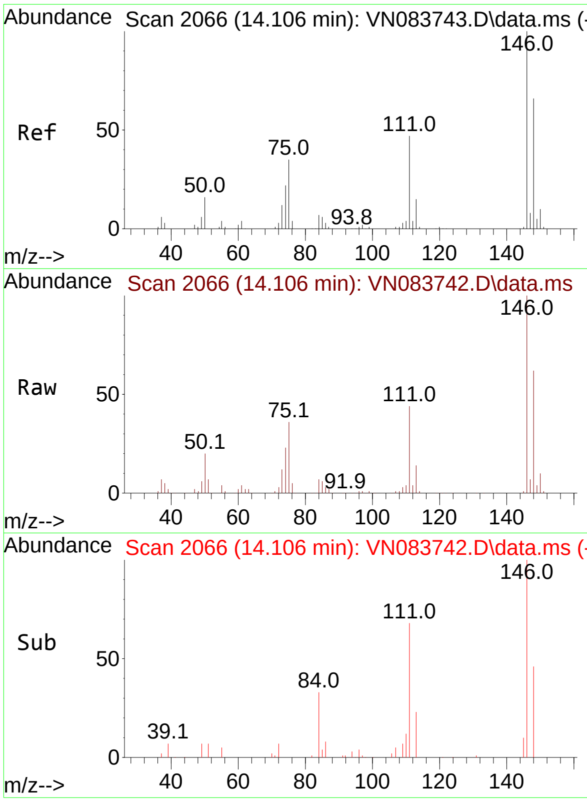
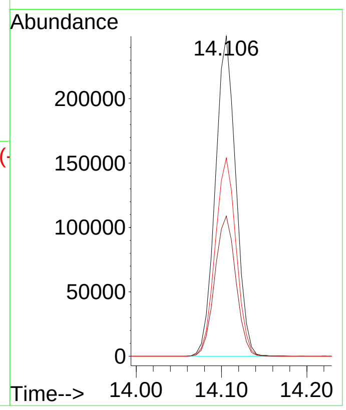
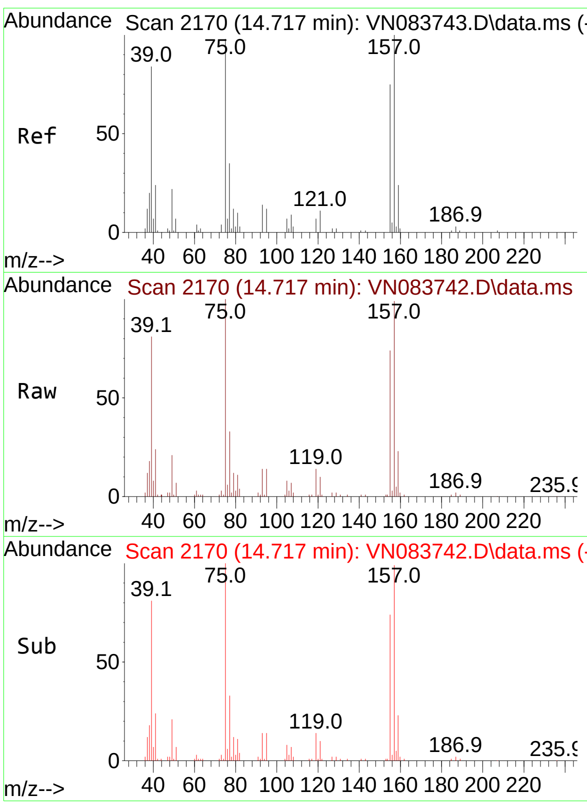


#91
1,2-Dichlorobenzene
Concen: 92.608 ug/l
RT: 14.106 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:146 Resp: 41458

Ion	Ratio	Lower	Upper
146	100		
111	45.1	22.8	68.3
148	63.1	32.1	96.5

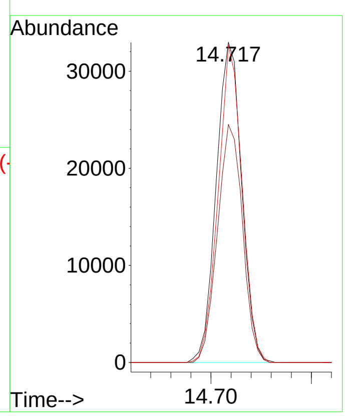




#92
1,2-Dibromo-3-Chloropropane
Concen: 96.804 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion: 75 Resp: 57895

Ion	Ratio	Lower	Upper
75	100		
155	73.4	35.9	107.7
157	93.3	47.5	142.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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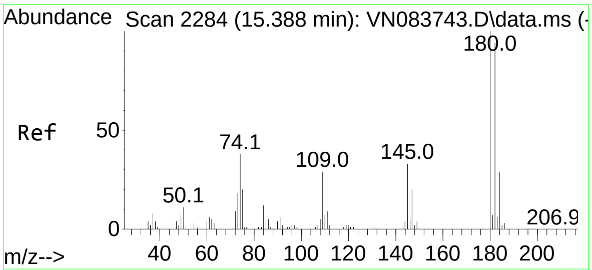
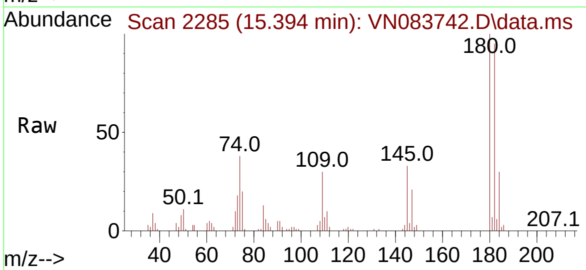
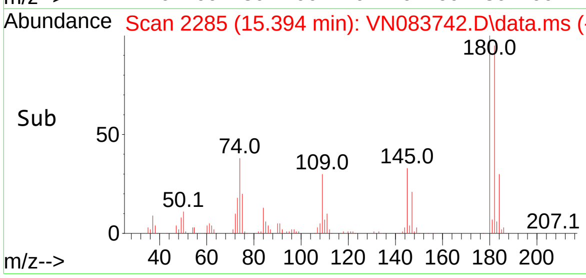


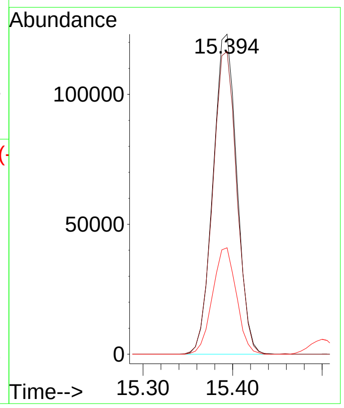


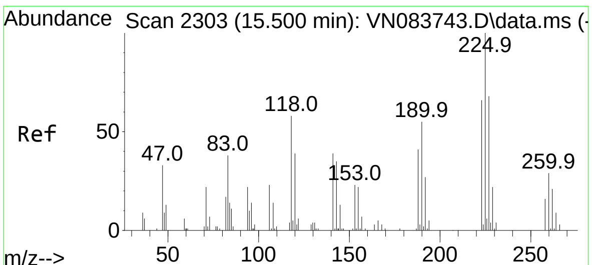


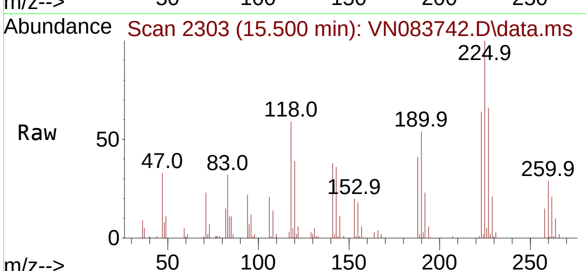
#93
1,2,4-Trichlorobenzene
Concen: 94.607 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

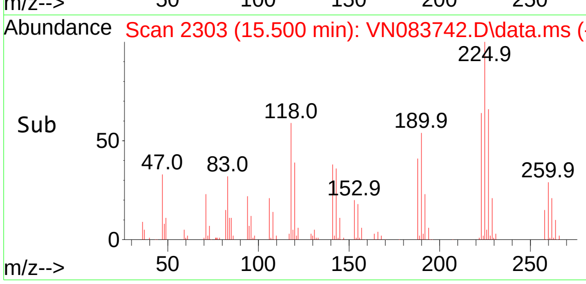
Tgt Ion:180 Resp: 22727

Ion	Ratio	Lower	Upper
180	100		
182	95.6	48.1	144.3
145	33.4	16.9	50.7





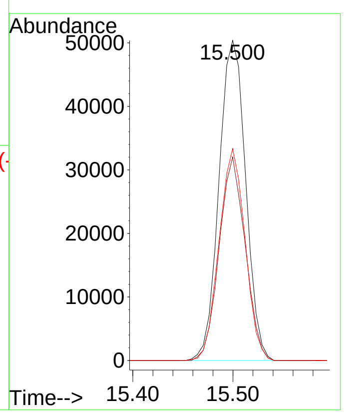




#94
Hexachlorobutadiene
Concen: 91.182 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:225 Resp: 93025

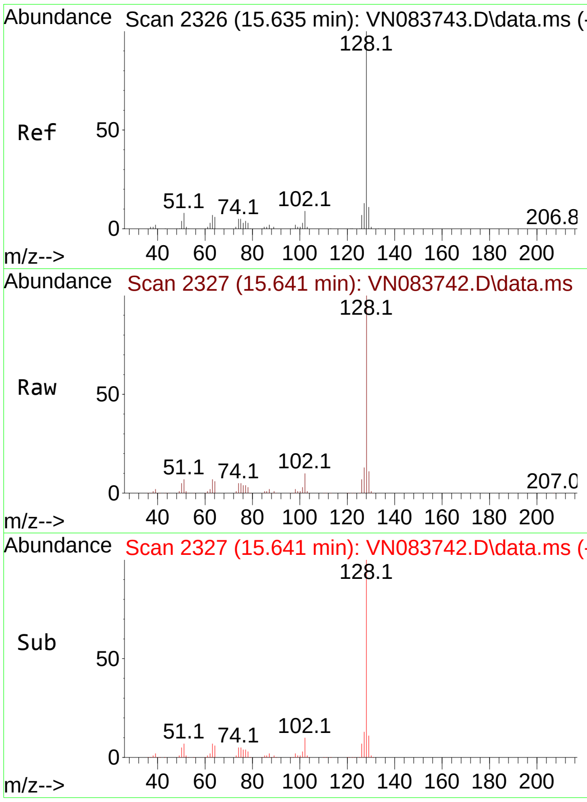
Ion	Ratio	Lower	Upper
225	100		
223	62.1	31.9	95.5
227	64.5	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

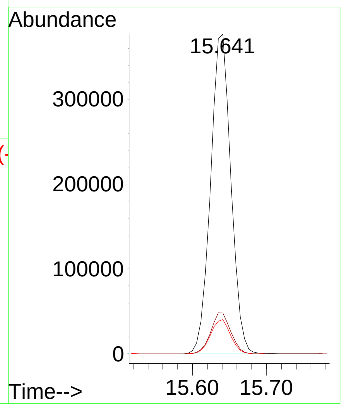
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

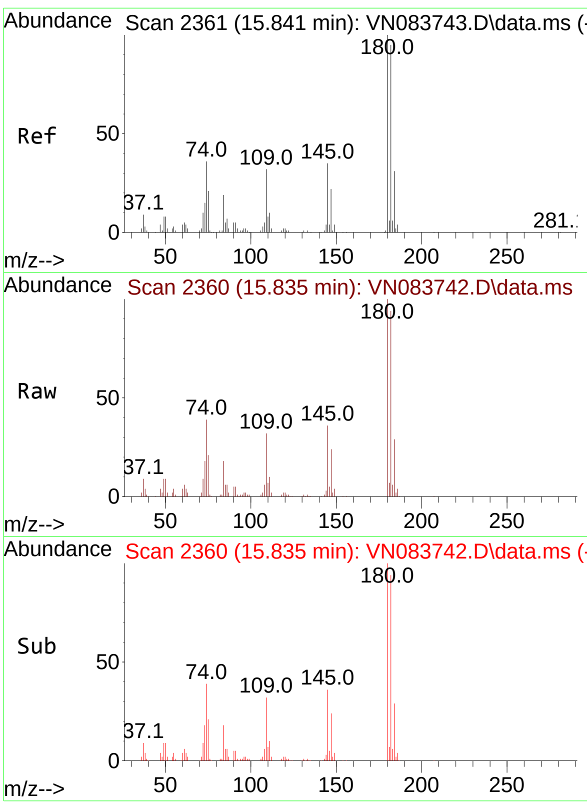


#95
Naphthalene
Concen: 98.492 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:128 Resp: 71985

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.6	8.7	13.1

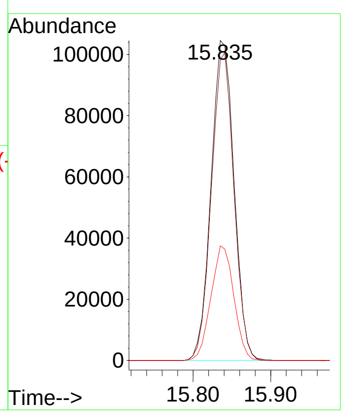




#96
1,2,3-Trichlorobenzene
Concen: 93.670 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN083742.D
Acq: 10 Sep 2024 09:08

Tgt Ion:180 Resp: 215058

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.1	141.4
145	35.7	17.8	53.5



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083743.D
Acq On : 10 Sep 2024 09:32
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Quant Time: Sep 11 01:54:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.224	168	172686	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304866	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	265988	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127433	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.577	65	146624	56.310 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.620%		
35) Dibromofluoromethane	8.165	113	103536	53.049 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.100%		
50) Toluene-d8	10.565	98	387600	57.446 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 114.900%#		
62) 4-Bromofluorobenzene	12.847	95	148654	53.401 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.800%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.124	85	103740	51.728 ug/l	99
3) Chloromethane	2.359	50	107608	52.642 ug/l	99
4) Vinyl Chloride	2.512	62	113364	51.571 ug/l	97
5) Bromomethane	2.906	94	61931	49.070 ug/l	98
6) Chloroethane	3.083	64	74441	48.814 ug/l	100
7) Trichlorofluoromethane	3.471	101	183864	49.276 ug/l	98
8) Diethyl Ether	3.953	74	63376	50.670 ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	101147	51.143 ug/l	97
10) Methyl Iodide	4.577	142	131056	52.103 ug/l	96
11) Tert butyl alcohol	5.530	59	87546	251.078 ug/l	99
12) 1,1-Dichloroethene	4.330	96	96478	51.654 ug/l	93
13) Acrolein	4.171	56	89867	261.217 ug/l	98
14) Allyl chloride	5.018	41	172508	51.834 ug/l	99
15) Acrylonitrile	5.718	53	237803	250.783 ug/l	99
16) Acetone	4.430	43	256758	245.978 ug/l	100
17) Carbon Disulfide	4.700	76	264217	50.571 ug/l	100
18) Methyl Acetate	5.024	43	115167	53.068 ug/l	100
19) Methyl tert-butyl Ether	5.789	73	346063	51.202 ug/l	98
20) Methylene Chloride	5.271	84	105124	49.214 ug/l	93
21) trans-1,2-Dichloroethene	5.777	96	100281	50.098 ug/l	93
22) Diisopropyl ether	6.671	45	354685	51.771 ug/l	98
23) Vinyl Acetate	6.600	43	1334972	266.082 ug/l	99
24) 1,1-Dichloroethane	6.559	63	197743	50.099 ug/l	99
25) 2-Butanone	7.483	43	339457	247.428 ug/l	100
26) 2,2-Dichloropropane	7.483	77	188830	51.949 ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	123764	52.085 ug/l	99
28) Bromochloromethane	7.812	49	90626	54.522 ug/l	98
29) Tetrahydrofuran	7.836	42	208523	257.049 ug/l	97
30) Chloroform	7.959	83	210873	50.323 ug/l	96
31) Cyclohexane	8.253	56	175569	46.653 ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	196328	50.954 ug/l	100
36) 1,1-Dichloropropene	8.371	75	143931	48.996 ug/l	100
37) Ethyl Acetate	7.559	43	139729	52.402 ug/l	98
38) Carbon Tetrachloride	8.359	117	171174	51.362 ug/l	97
39) Methylcyclohexane	9.600	83	174544	52.200 ug/l	99
40) Benzene	8.600	78	439364	49.691 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083743.D
Acq On : 10 Sep 2024 09:32
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 11 01:54:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	80473	51.026 ug/l	99
42) 1,2-Dichloroethane	8.671	62	166416	50.370 ug/l	99
43) Isopropyl Acetate	8.688	43	242653	50.218 ug/l	97
44) Trichloroethene	9.353	130	103614	50.604 ug/l	99
45) 1,2-Dichloropropane	9.618	63	106419	49.798 ug/l	98
46) Dibromomethane	9.706	93	77488	51.768 ug/l	98
47) Bromodichloromethane	9.888	83	167396	51.674 ug/l	99
48) Methyl methacrylate	9.677	41	115324	50.305 ug/l	98
49) 1,4-Dioxane	9.694	88	36620	971.017 ug/l #	96
51) 4-Methyl-2-Pentanone	10.441	43	675474	256.804 ug/l	98
52) Toluene	10.629	92	276845	51.189 ug/l	97
53) t-1,3-Dichloropropene	10.835	75	170271	51.855 ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	178747	51.823 ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	100040	49.547 ug/l	98
56) Ethyl methacrylate	10.871	69	169686	54.624 ug/l	99
57) 1,3-Dichloropropane	11.159	76	175459	50.562 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	264081	235.930 ug/l	99
59) 2-Hexanone	11.194	43	501507	257.751 ug/l	99
60) Dibromochloromethane	11.359	129	119533	52.899 ug/l #	10
61) 1,2-Dibromoethane	11.465	107	101248	50.281 ug/l	100
64) Tetrachloroethene	11.100	164	85484	48.327 ug/l	98
65) Chlorobenzene	11.888	112	290168	49.084 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	104718	51.096 ug/l	99
67) Ethyl Benzene	11.965	91	539737	51.395 ug/l	99
68) m/p-Xylenes	12.071	106	401299	102.926 ug/l	99
69) o-Xylene	12.394	106	196721	52.119 ug/l	98
70) Styrene	12.412	104	330888	53.417 ug/l	99
71) Bromoform	12.576	173	74017	53.596 ug/l #	99
73) Isopropylbenzene	12.694	105	519478	52.691 ug/l	100
74) N-amyl acetate	12.494	43	221603	52.682 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	139525	48.166 ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	120040m	46.684 ug/l	
77) Bromobenzene	12.976	156	114527	48.259 ug/l	98
78) n-propylbenzene	13.035	91	606410	52.864 ug/l	99
79) 2-Chlorotoluene	13.123	91	368645	50.391 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	435677	52.415 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	52353	53.325 ug/l	97
82) 4-Chlorotoluene	13.223	91	375734	51.180 ug/l	99
83) tert-Butylbenzene	13.435	119	384034	52.809 ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	443899	53.164 ug/l	100
85) sec-Butylbenzene	13.617	105	520441	53.962 ug/l	100
86) p-Isopropyltoluene	13.729	119	439355	54.344 ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	221915	49.548 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	221827	48.914 ug/l	99
89) n-Butylbenzene	14.053	91	382538	52.700 ug/l	100
90) Hexachloroethane	14.329	117	81825	50.348 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	215156	49.777 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30218	52.330 ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	118780	51.209 ug/l	98
94) Hexachlorobutadiene	15.500	225	47681	48.405 ug/l	99
95) Naphthalene	15.635	128	384390	54.471 ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	114047	51.447 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083743.D
Acq On : 10 Sep 2024 09:32
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:54:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

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

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083743.D
Acq On : 10 Sep 2024 09:32
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 11 01:54:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
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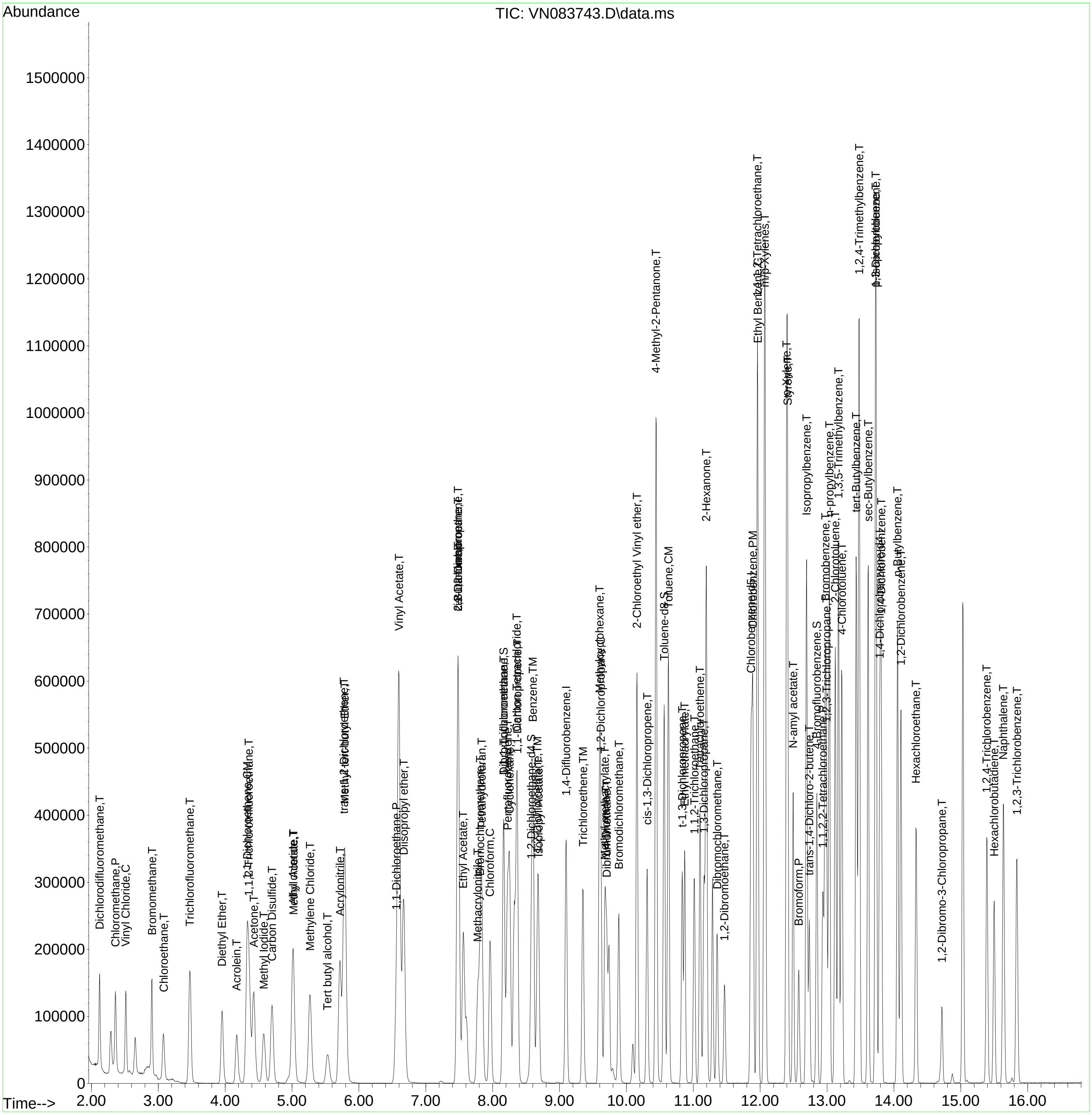
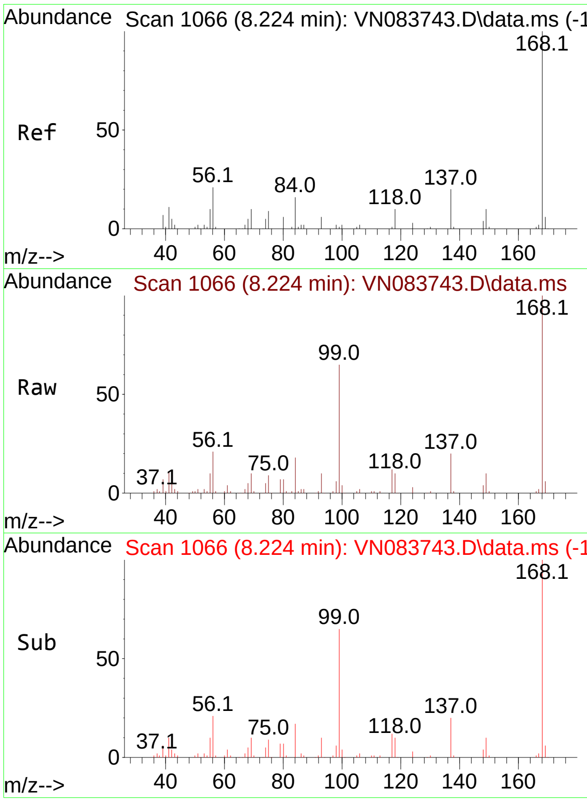
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

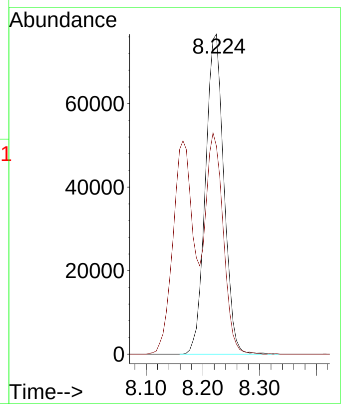
Tgt Ion:168 Resp: 17268

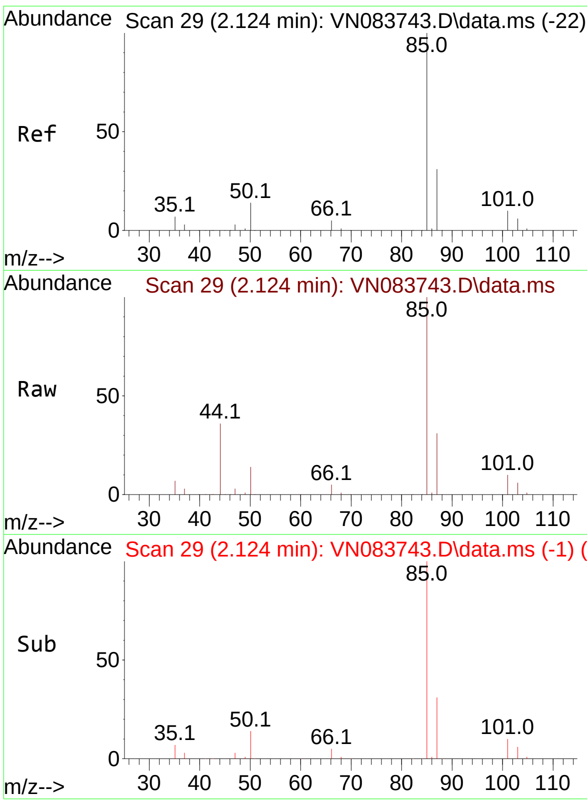
Ion	Ratio	Lower	Upper
168	100		
99	65.1	54.2	81.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

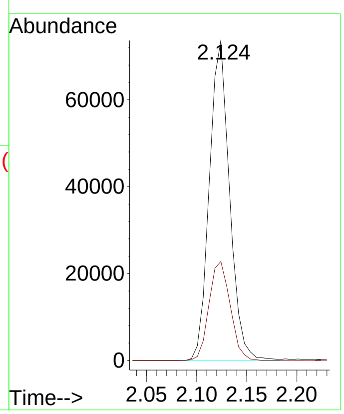




#2
Dichlorodifluoromethane
Concen: 51.728 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 85 Resp: 103740

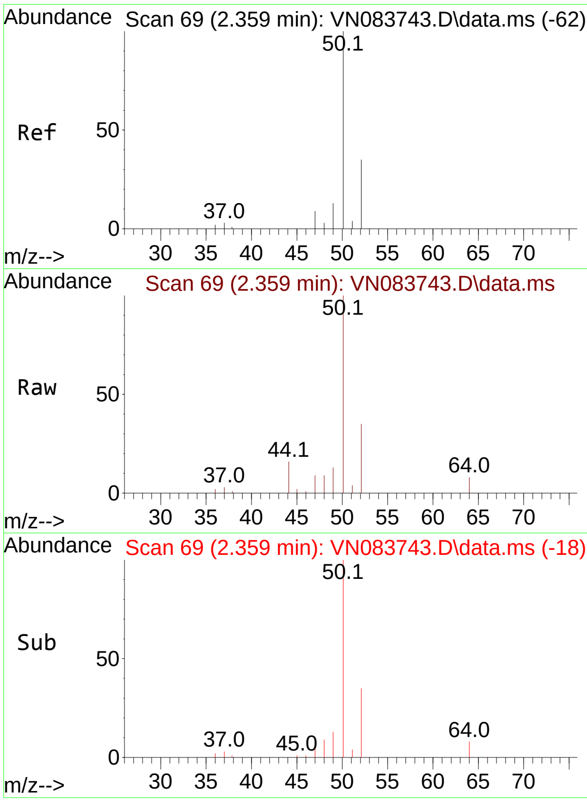
Ion	Ratio	Lower	Upper
85	100		
87	31.0	15.7	47.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

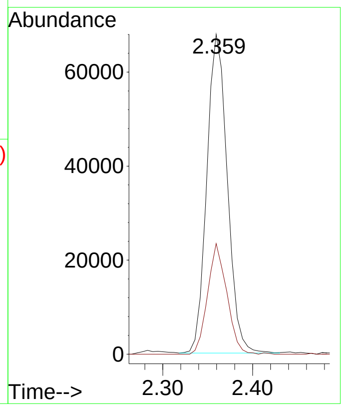
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

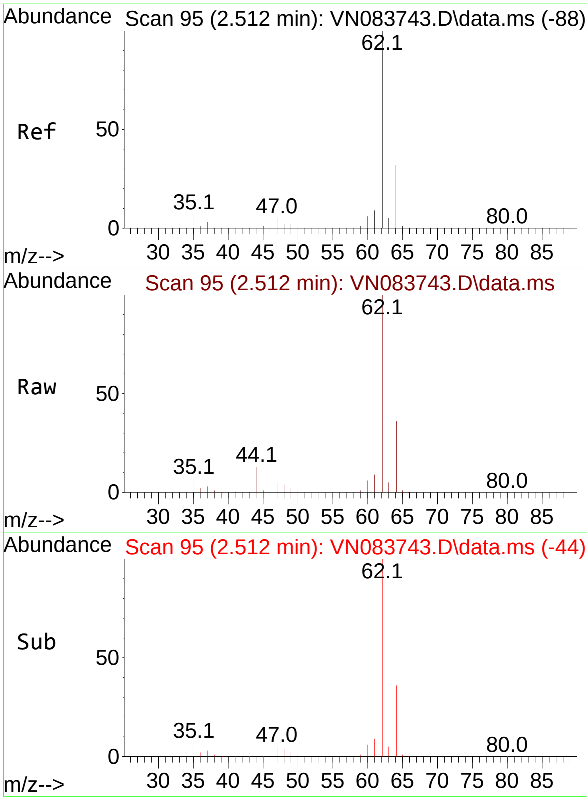


#3
Chloromethane
Concen: 52.642 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 50 Resp: 107608

Ion	Ratio	Lower	Upper
50	100		
52	34.7	27.2	40.8

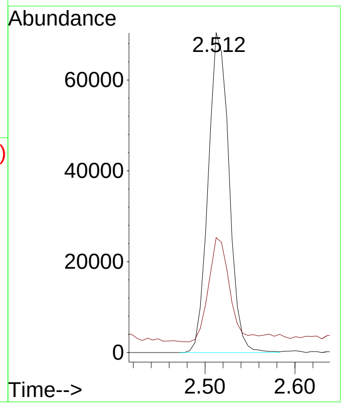




#4
Vinyl Chloride
Concen: 51.571 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 62 Resp: 113364

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.7	37.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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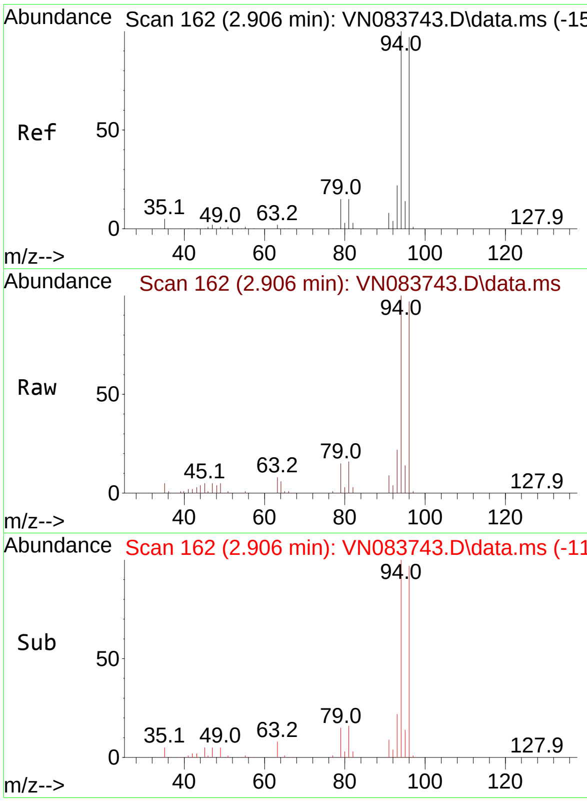
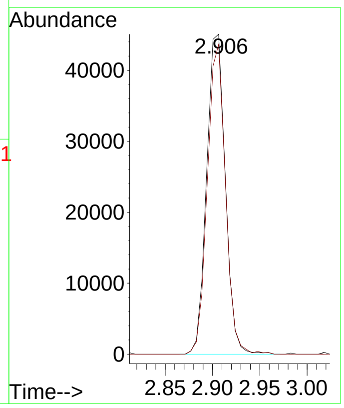
Supervised By :Semsettin Yesilyurt 09/11/2024

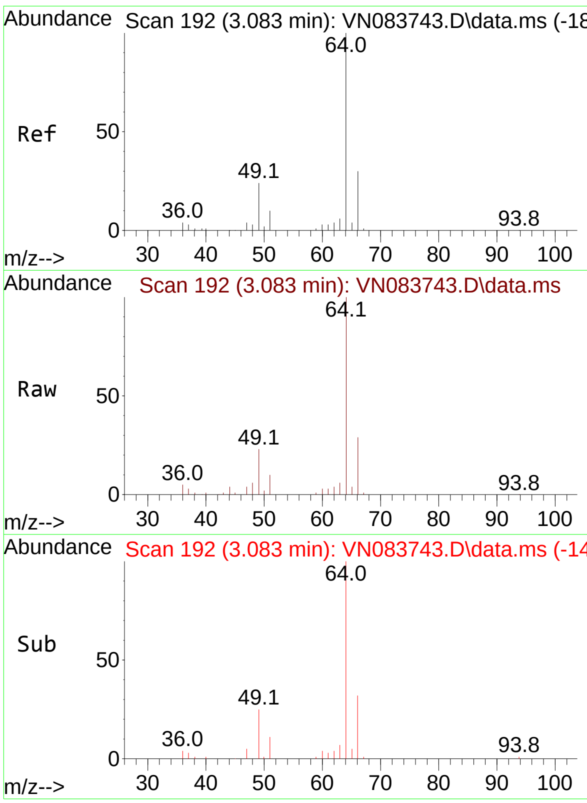


#5
Bromomethane
Concen: 49.070 ug/l
RT: 2.906 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 94 Resp: 6193

Ion	Ratio	Lower	Upper
94	100		
96	96.8	76.0	114.0

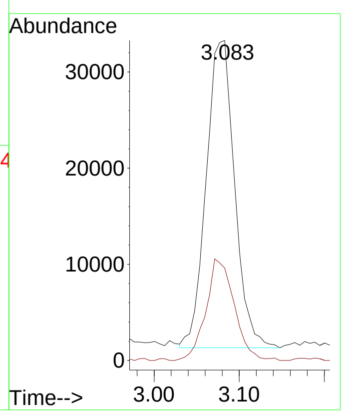


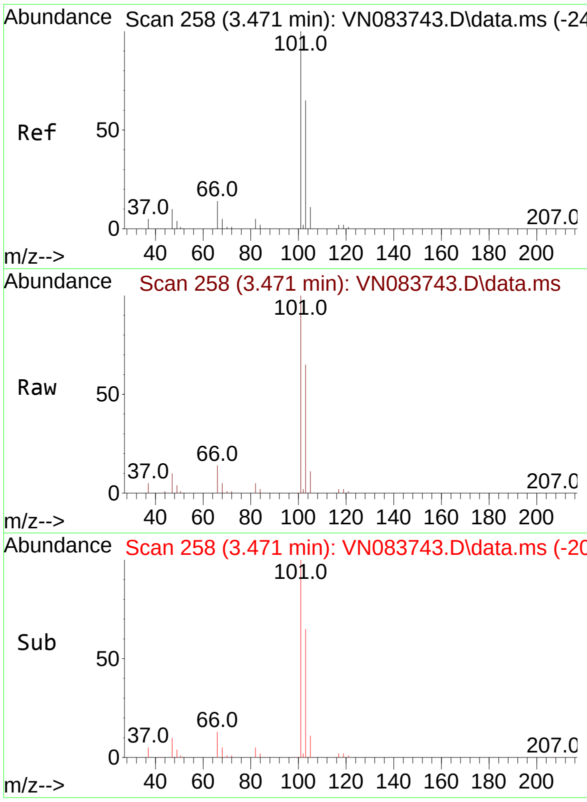


#6
Chloroethane
Concen: 48.814 ug/l
RT: 3.083 min Scan# 192
Delta R.T. -0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 64 Resp: 74441

Ion	Ratio	Lower	Upper
64	100		
66	30.1	23.9	35.9





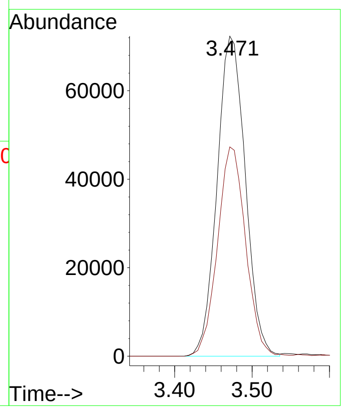
#7
Trichlorofluoromethane
Concen: 49.276 ug/l
RT: 3.471 min Scan# 2!
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

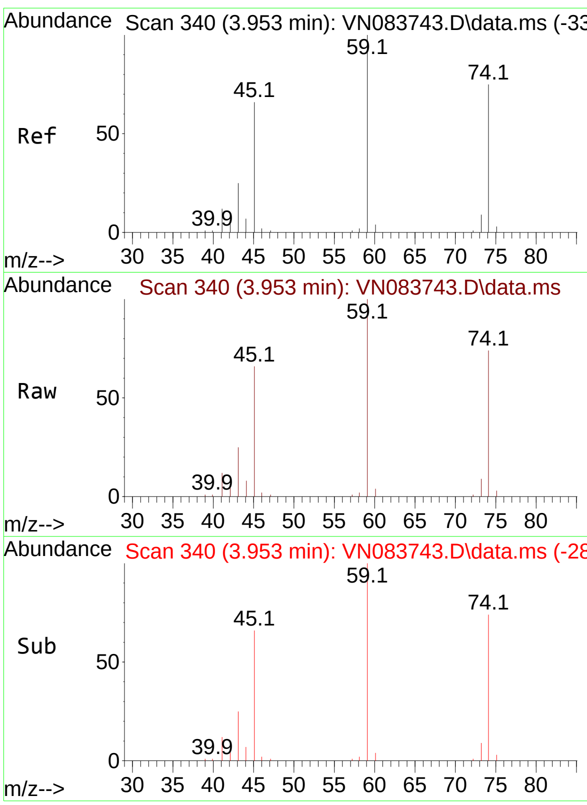
Tgt Ion:101 Resp: 18386

Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.4	77.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

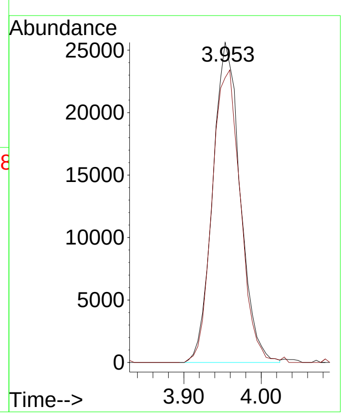


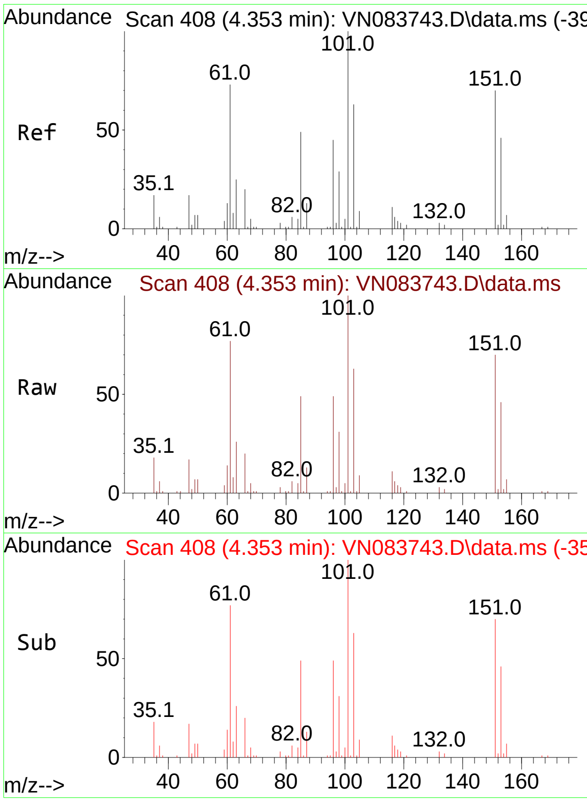


#8
Diethyl Ether
Concen: 50.670 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 74 Resp: 63376

Ion	Ratio	Lower	Upper
74	100		
45	94.3	46.7	140.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.143 ug/l
RT: 4.353 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 10114

Ion	Ratio	Lower	Upper
101	100		
85	48.5	36.2	54.4
151	71.0	57.7	86.5

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Reviewed By :John Carlone 09/11/2024
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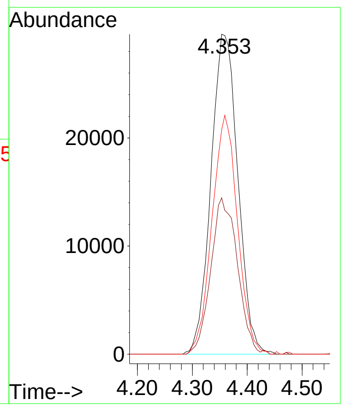
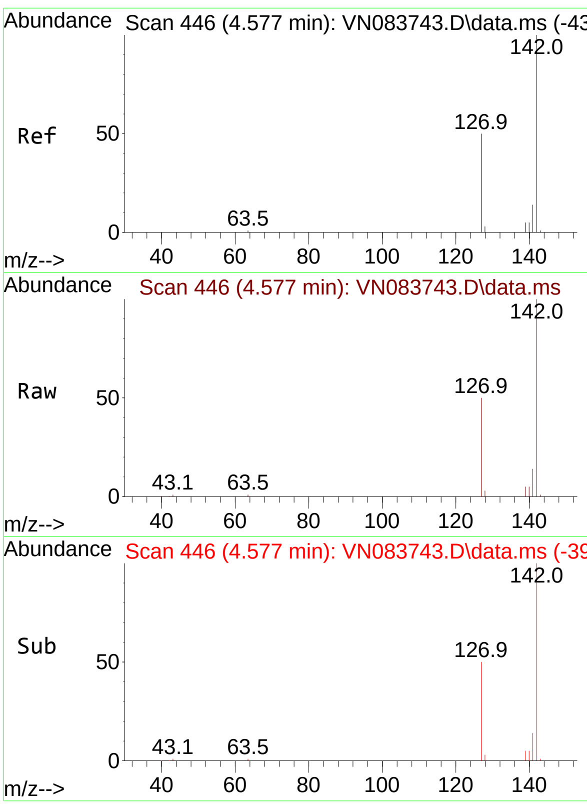
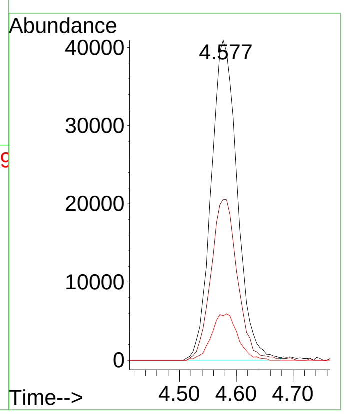




#10
Methyl Iodide
Concen: 52.103 ug/l
RT: 4.577 min Scan# 446
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:142 Resp: 131056

Ion	Ratio	Lower	Upper
142	100		
127	50.3	37.5	56.3
141	13.9	11.0	16.4



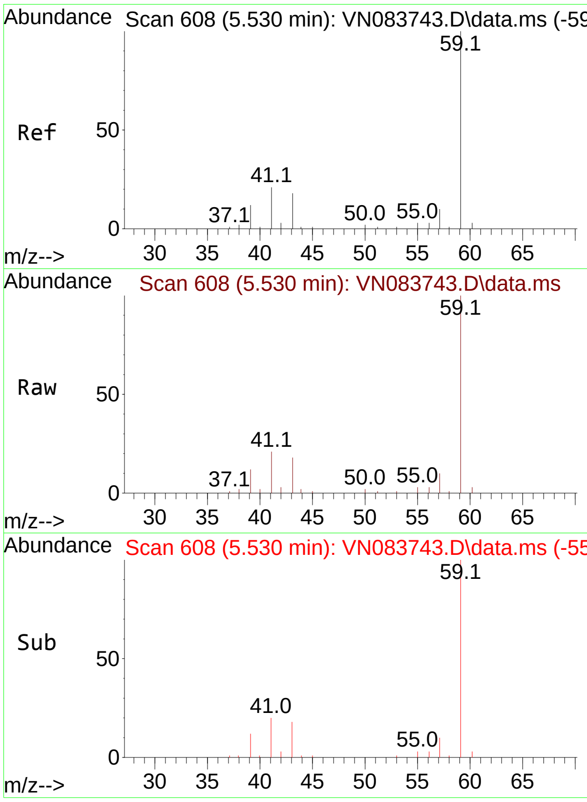
ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

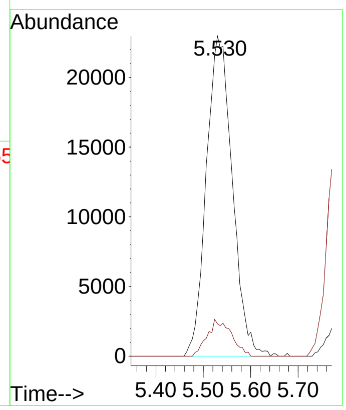
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

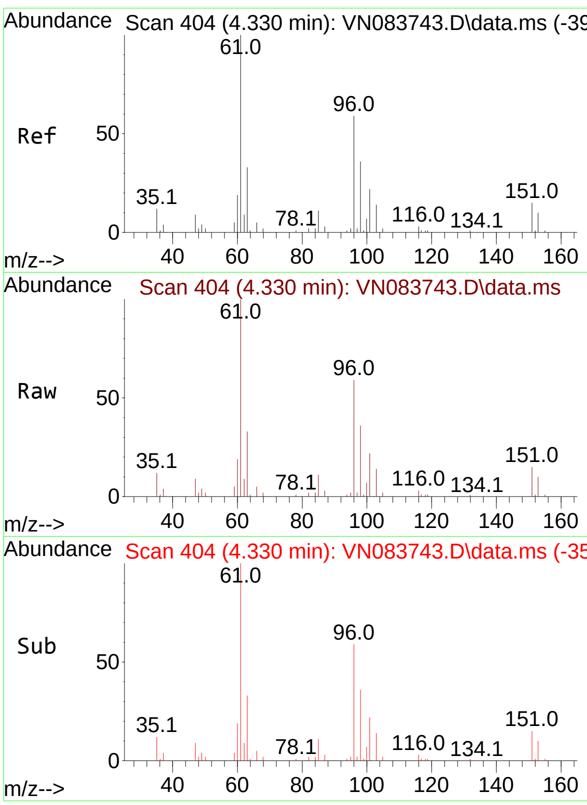


#11
Tert butyl alcohol
Concen: 251.078 ug/l
RT: 5.530 min Scan# 60
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 59 Resp: 8754

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1

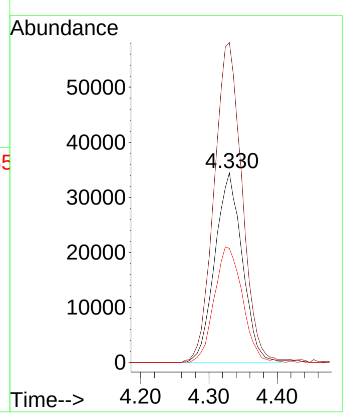


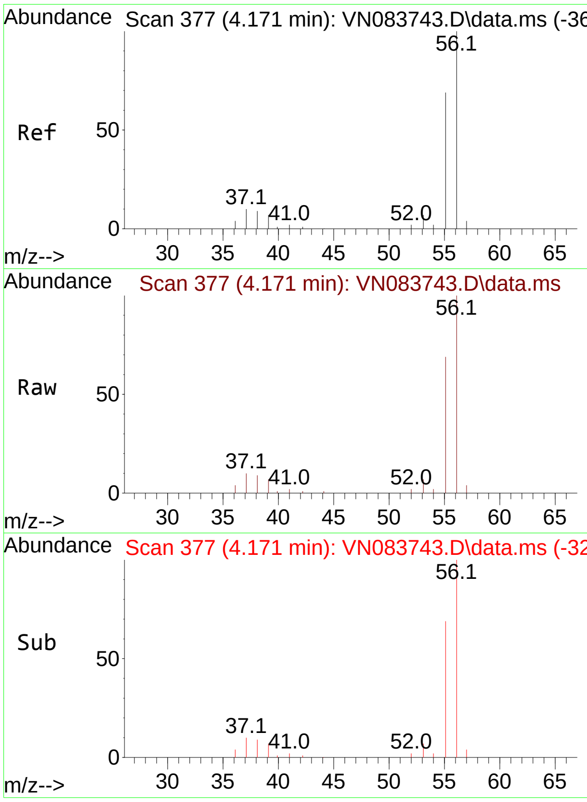


#12
1,1-Dichloroethene
Concen: 51.654 ug/l
RT: 4.330 min Scan# 404
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 96 Resp: 96478

Ion	Ratio	Lower	Upper
96	100		
61	168.8	143.4	215.0
98	60.1	52.7	79.1

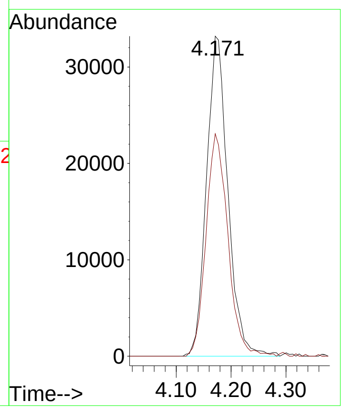




#13
Acrolein
Concen: 261.217 ug/l
RT: 4.171 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 56 Resp: 8986

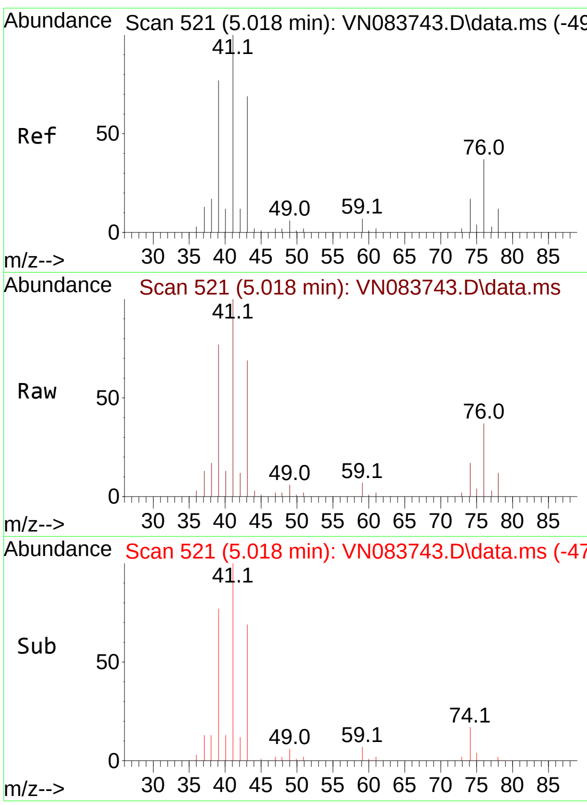
Ion	Ratio	Lower	Upper
56	100		
55	71.2	58.2	87.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

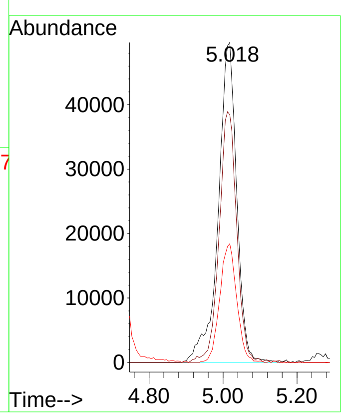
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

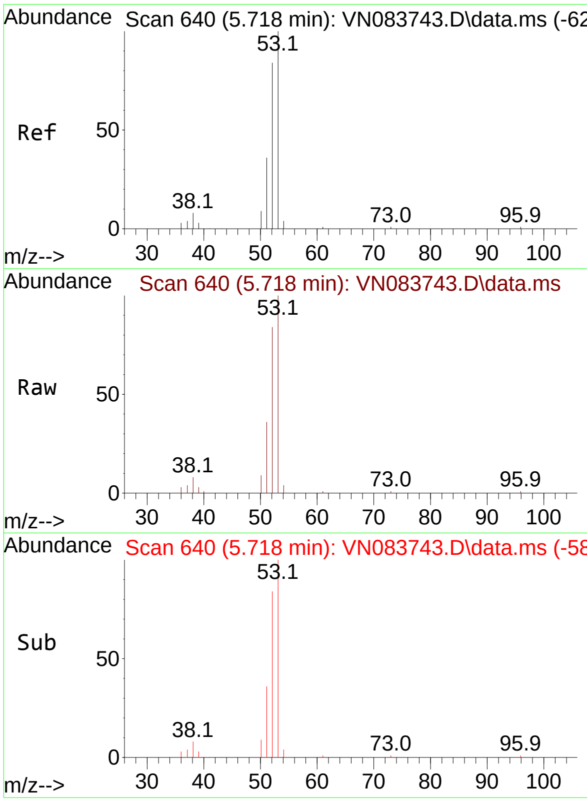


#14
Allyl chloride
Concen: 51.834 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 41 Resp: 172508

Ion	Ratio	Lower	Upper
41	100		
39	74.7	59.3	88.9
76	34.1	27.7	41.5





#15
Acrylonitrile
Concen: 250.783 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

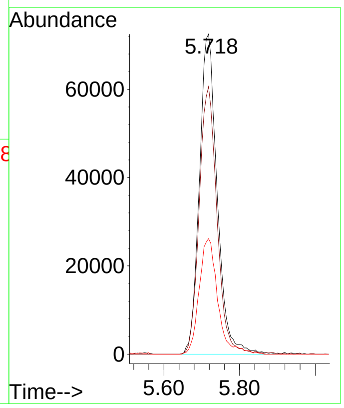
Tgt Ion: 53 Resp: 23780

Ion	Ratio	Lower	Upper
53	100		
52	83.2	66.1	99.1
51	37.8	29.6	44.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



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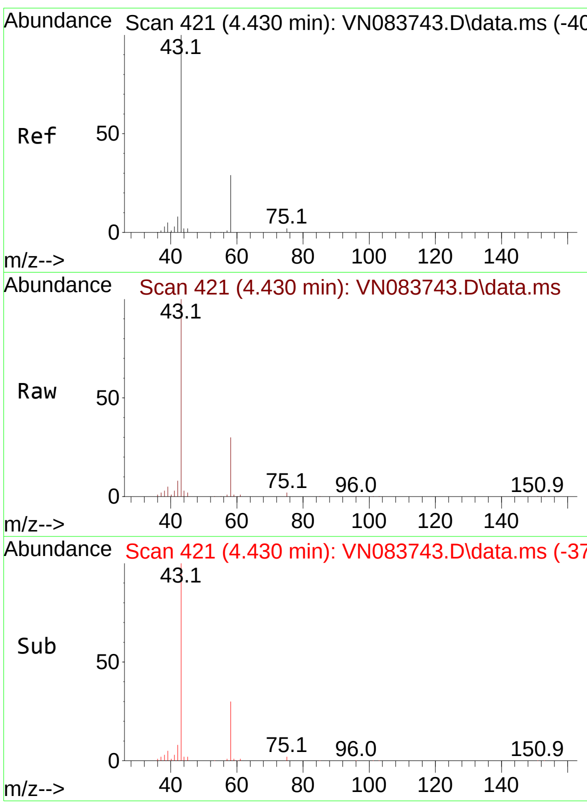
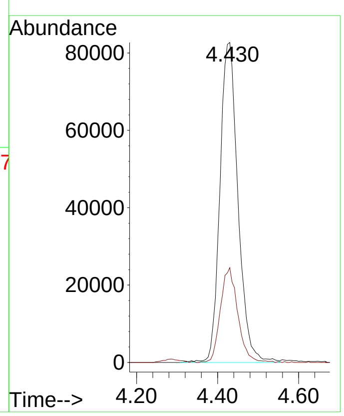


#16
Acetone
Concen: 245.978 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 43 Resp: 256758

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.7	35.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
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Reviewed By :John Carlone 09/11/2024
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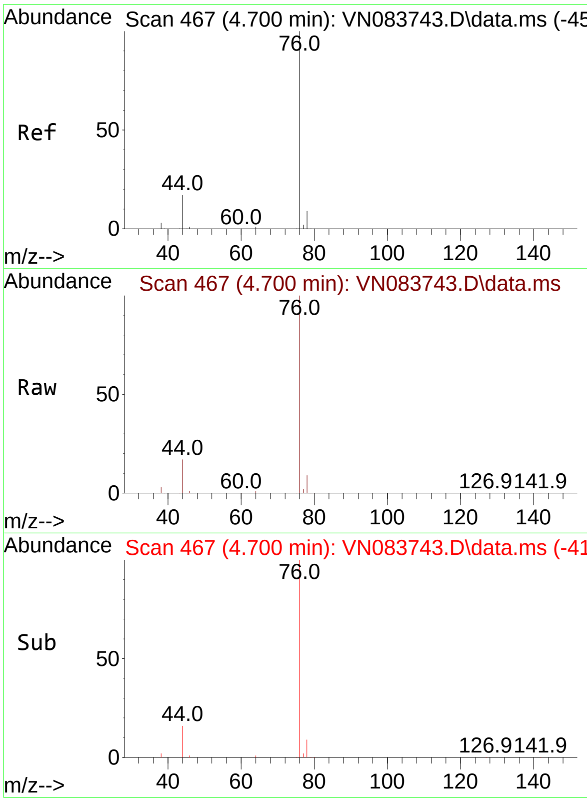
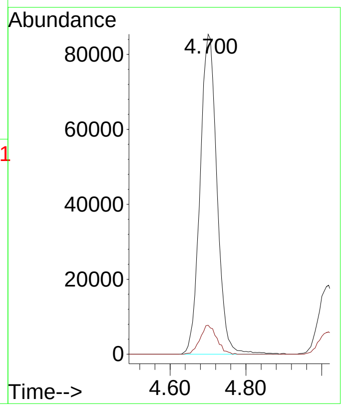
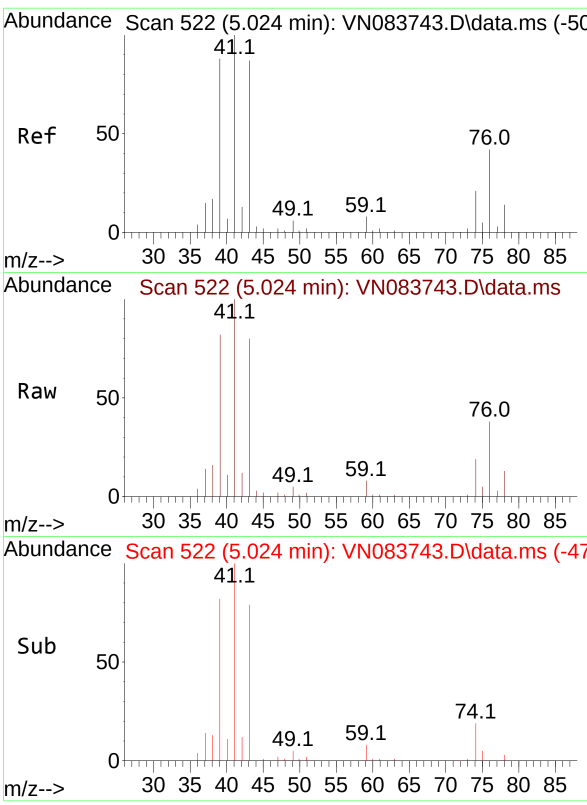


#17
Carbon Disulfide
Concen: 50.571 ug/l
RT: 4.700 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 76 Resp: 264211

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.1	10.7

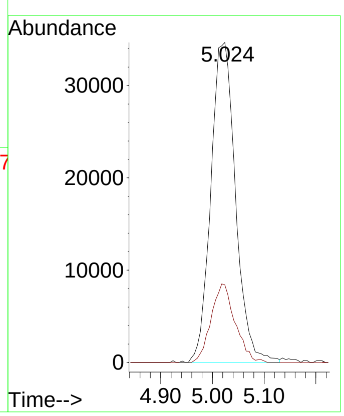


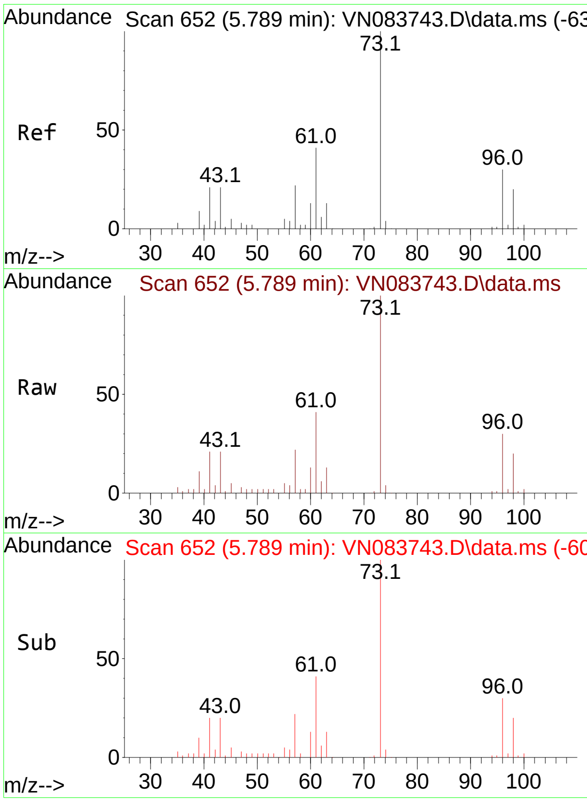


#18
Methyl Acetate
Concen: 53.068 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 43 Resp: 115167

Ion	Ratio	Lower	Upper
43	100		
74	23.9	19.0	28.4





#19
Methyl tert-butyl Ether
Concen: 51.202 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 73 Resp: 34606

Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.0	25.6

Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

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Reviewed By :John Carlone 09/11/2024
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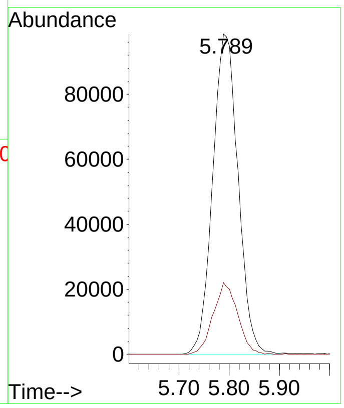
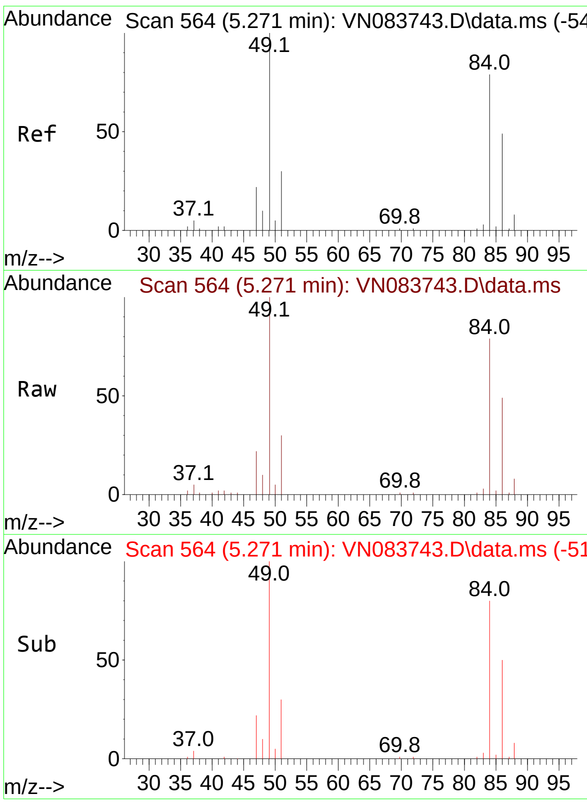
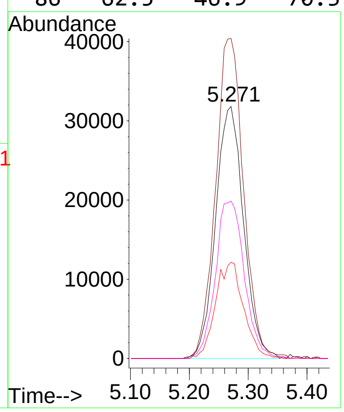




#20
Methylene Chloride
Concen: 49.214 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 84 Resp: 105124

Ion	Ratio	Lower	Upper
84	100		
49	127.0	93.4	140.0
51	38.2	29.2	43.8
86	62.5	46.9	70.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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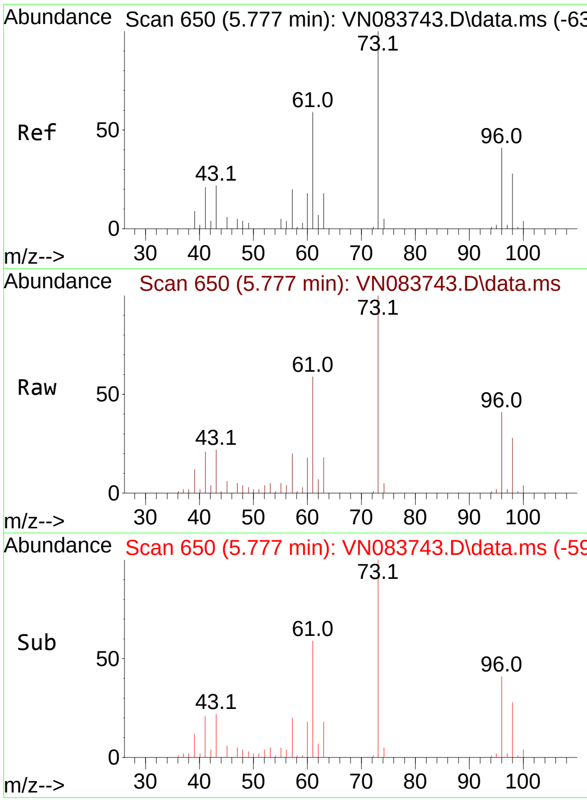
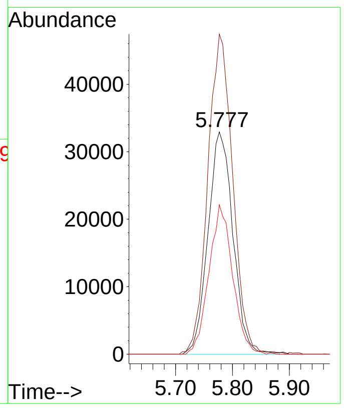
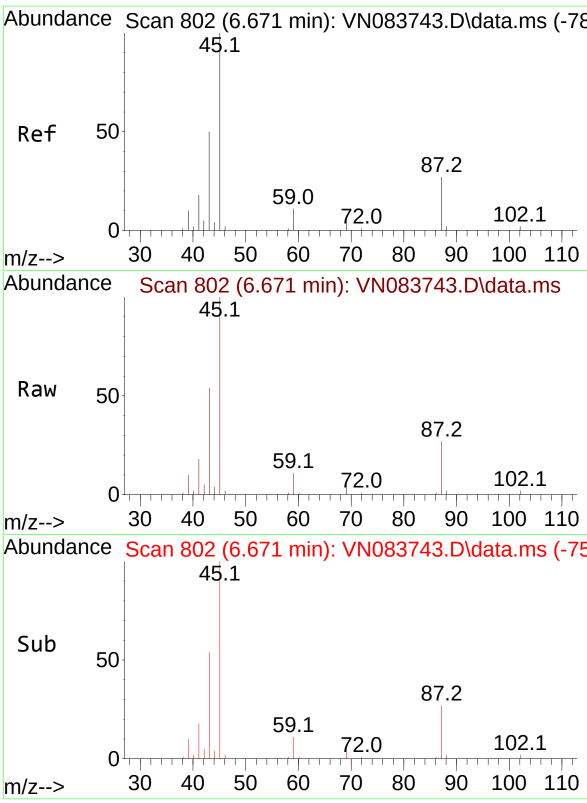


#21
trans-1,2-Dichloroethene
Concen: 50.098 ug/l
RT: 5.777 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 96 Resp: 10028

Ion	Ratio	Lower	Upper
96	100		
61	144.0	106.0	159.0
98	67.2	52.2	78.2

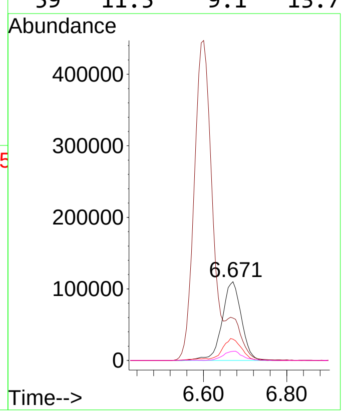




#22
Diisopropyl ether
Concen: 51.771 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 45 Resp: 354685

Ion	Ratio	Lower	Upper
45	100		
43	53.1	43.4	65.0
87	27.0	22.6	33.8
59	11.5	9.1	13.7



Instrument :
MSVOA_N
ClientSampleId :
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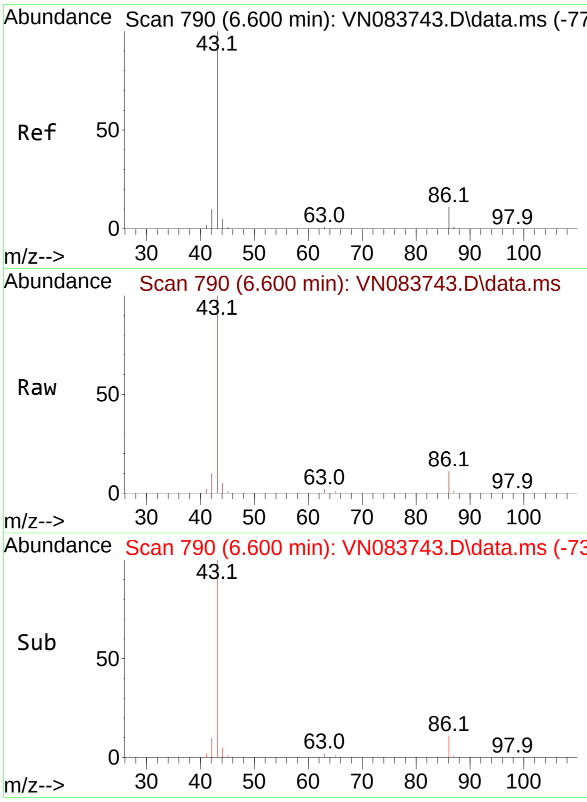
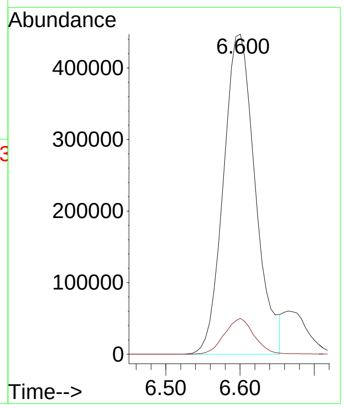
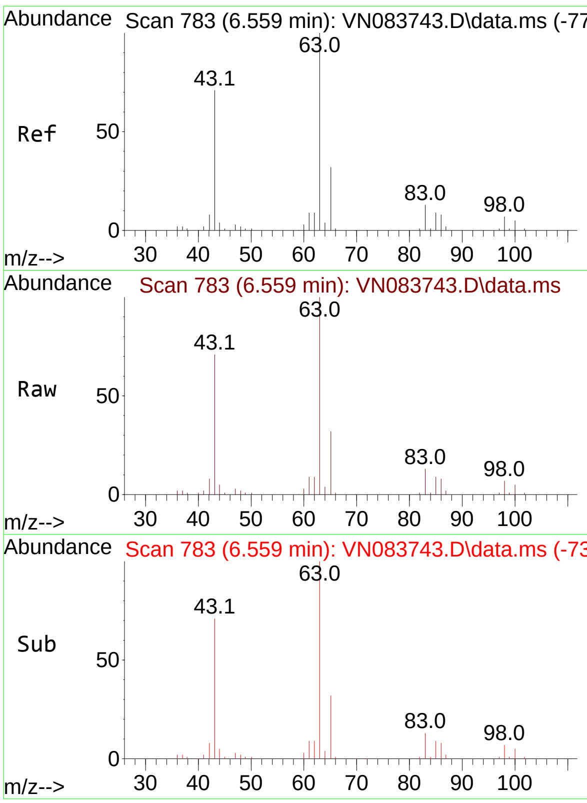
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#23
Vinyl Acetate
Concen:  266.082 ug/l
RT:    6.600 min  Scan# 79
Delta R.T.  0.000 min
Lab File:   VN083743.D
Acq: 10 Sep 2024  09:32

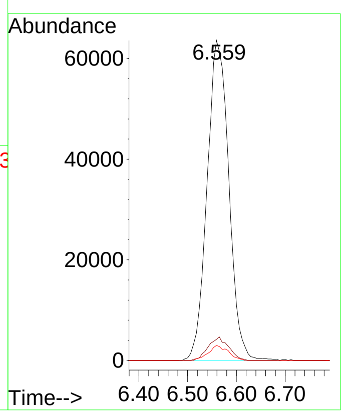
Tgt Ion: 43 Resp: 1334971
Ion  Ratio  Lower  Upper
 43  100
 86   11.2    8.7   13.1
```






```
#24
1,1-Dichloroethane
Concen:   50.099 ug/l
RT:    6.559 min  Scan# 783
Delta R.T.  0.000 min
Lab File:   VN083743.D
Acq: 10 Sep 2024  09:32

Tgt Ion: 63 Resp:  197743
Ion  Ratio  Lower  Upper
 63  100
 98    6.6    3.5   10.4
100    4.7    2.5    7.5
```



Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

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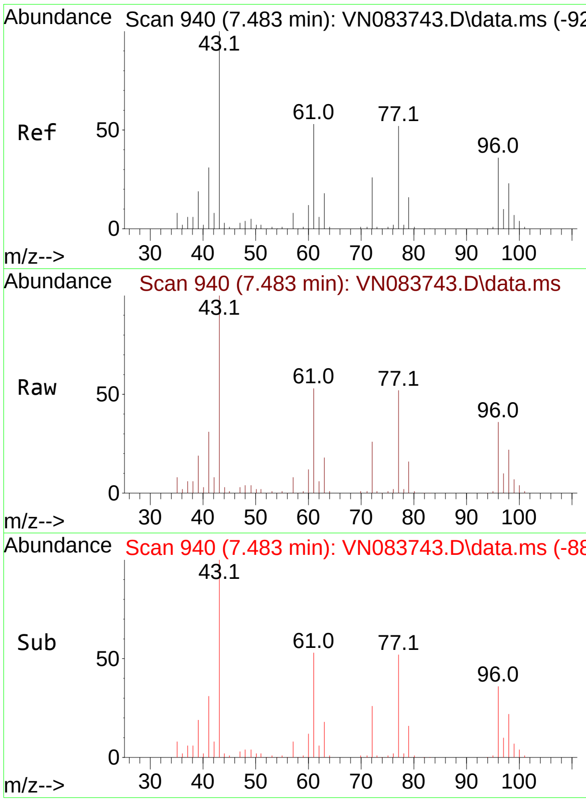
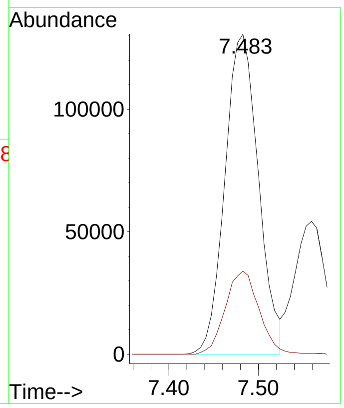
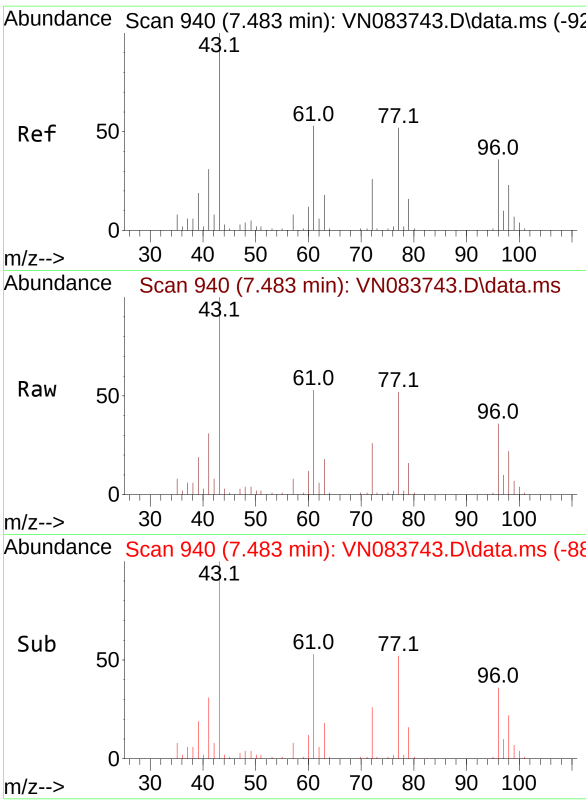


#25
2-Butanone
Concen: 247.428 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 43 Resp: 33945

Ion	Ratio	Lower	Upper
43	100		
72	25.9	20.8	31.2

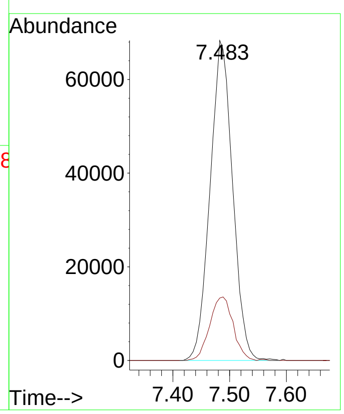




#26
2,2-Dichloropropane
Concen: 51.949 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 77 Resp: 188830

Ion	Ratio	Lower	Upper
77	100		
97	20.6	10.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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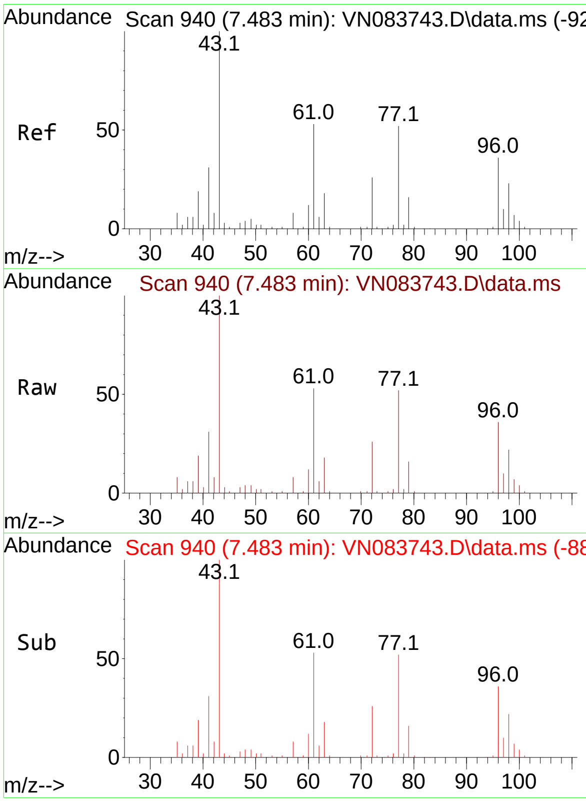
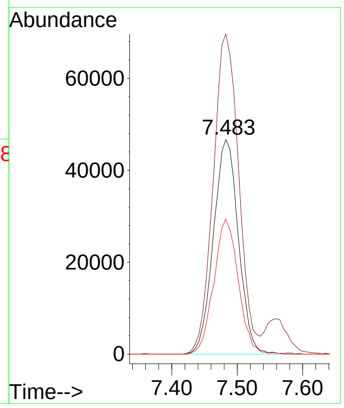
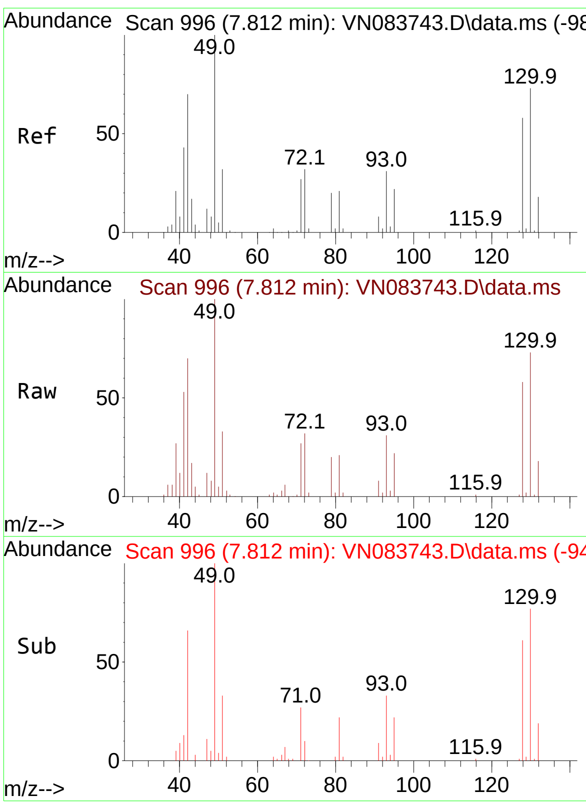


#27
cis-1,2-Dichloroethene
Concen: 52.085 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 96 Resp: 12376

Ion	Ratio	Lower	Upper
96	100		
61	153.1	0.0	306.2
98	61.8	0.0	128.6

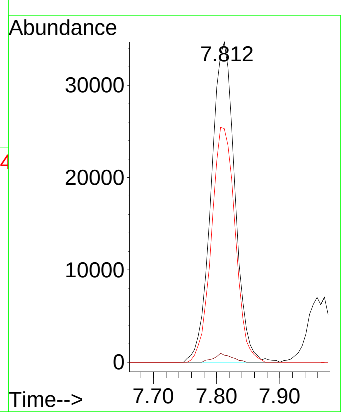




#28
Bromochloromethane
Concen: 54.522 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 49 Resp: 90626

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.4
130	73.2	60.2	90.2



Instrument :
MSVOA_N
ClientSampleId :
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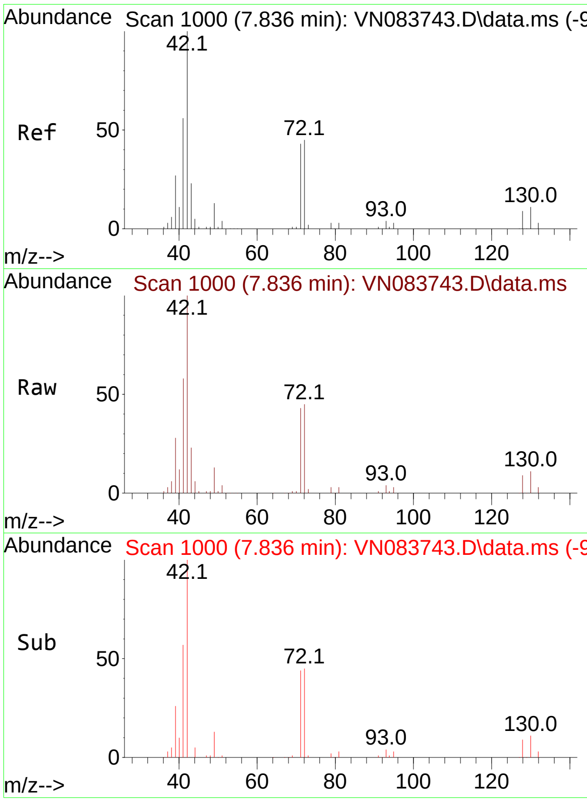
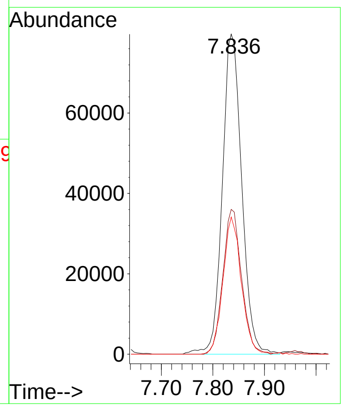
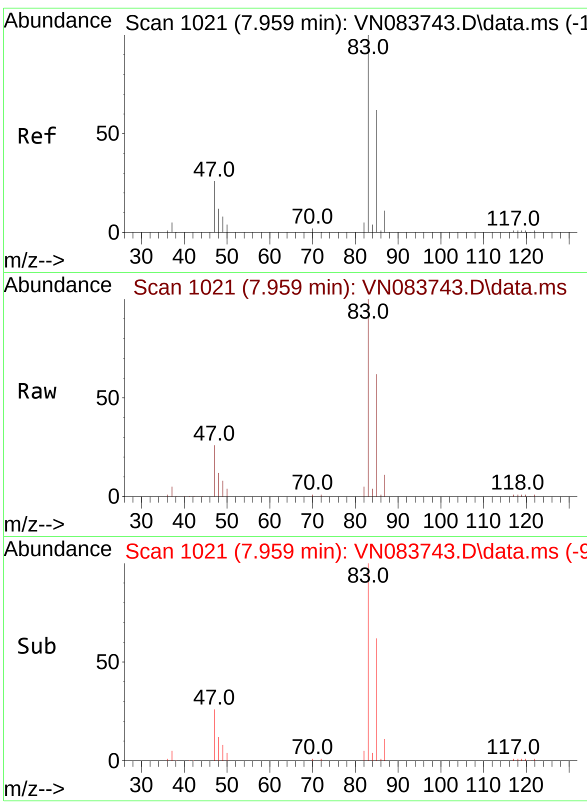



```
#29
Tetrahydrofuran
Concen:  257.049 ug/l
RT:   7.836 min  Scan# 1(
Delta R.T.  0.000 min
Lab File:   VN083743.D
Acq: 10 Sep 2024  09:32

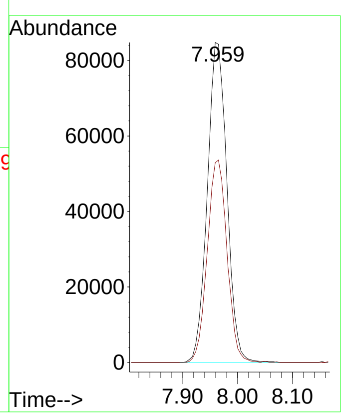
Tgt Ion: 42 Resp:  20852
Ion  Ratio  Lower  Upper
 42  100
 72   43.5   35.9   53.9
 71   40.5   33.9   50.9
```

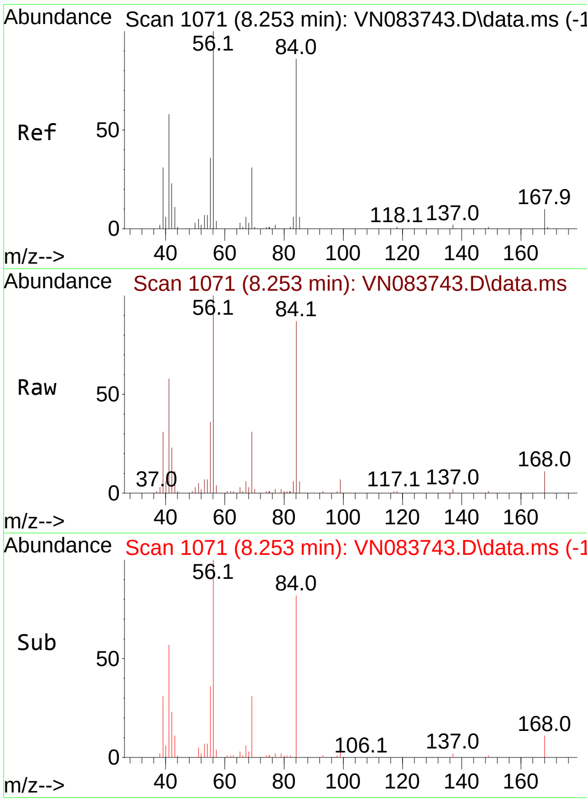





```
#30
Chloroform
Concen:   50.323 ug/l
RT:   7.959 min  Scan# 1021
Delta R.T.  0.000 min
Lab File:   VN083743.D
Acq: 10 Sep 2024  09:32

Tgt Ion: 83 Resp:  210873
Ion  Ratio  Lower  Upper
 83  100
 85   62.5   52.8   79.2
```





#31
Cyclohexane
Concen: 46.653 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 56 Resp: 175569

Ion	Ratio	Lower	Upper
56	100		
69	31.4	26.9	40.3
84	85.6	69.2	103.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED
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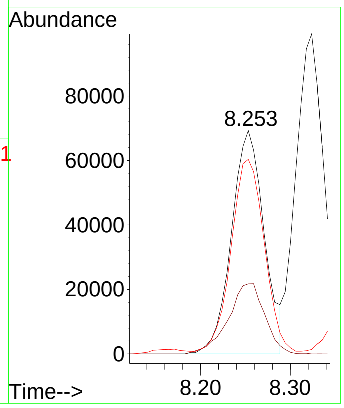
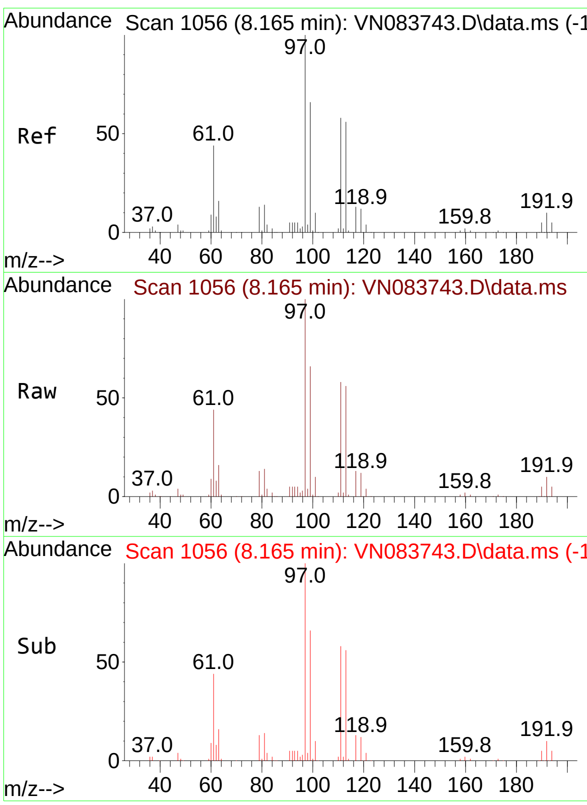
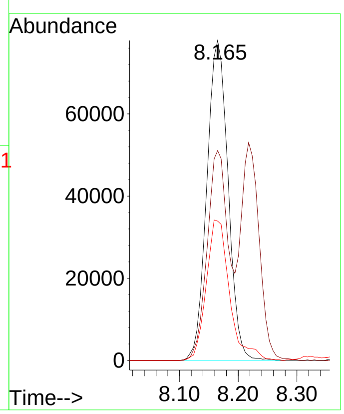




#32
1,1,1-Trichloroethane
Concen: 50.954 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 97 Resp: 196328

Ion	Ratio	Lower	Upper
97	100		
99	65.5	52.3	78.5
61	48.2	38.2	57.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
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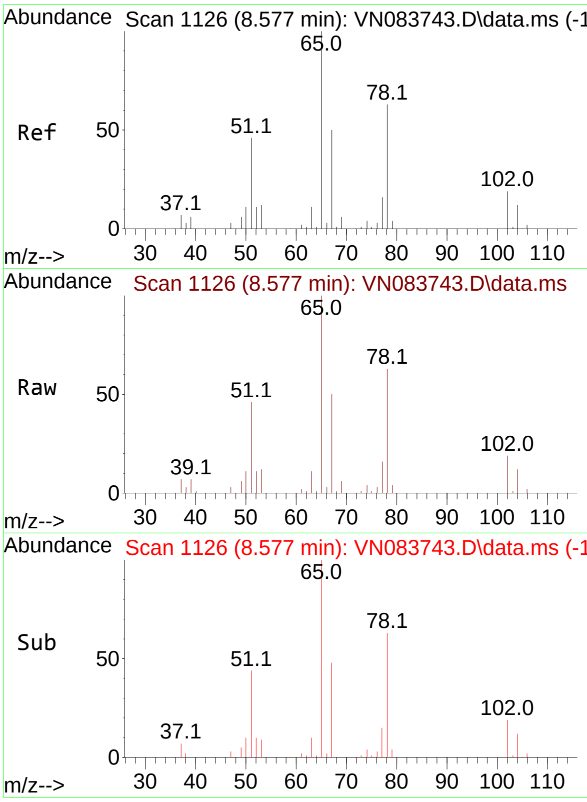
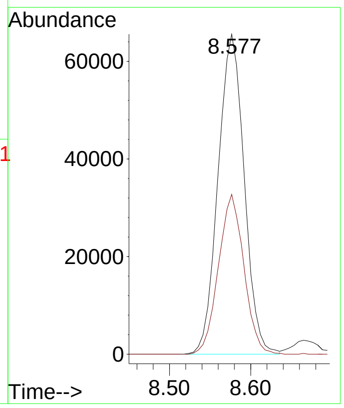
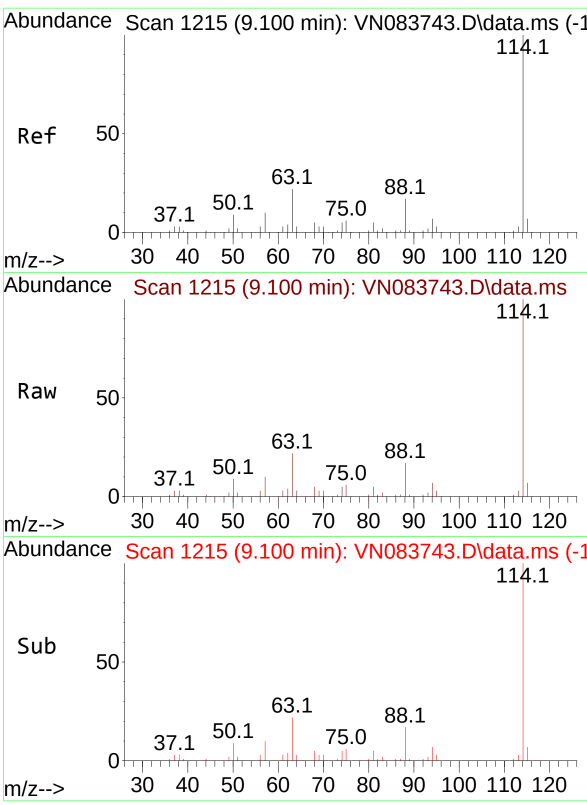


#33
1,2-Dichloroethane-d4
Concen: 56.310 ug/l
RT: 8.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 65 Resp: 14662

Ion	Ratio	Lower	Upper
65	100		
67	48.6	0.0	100.8

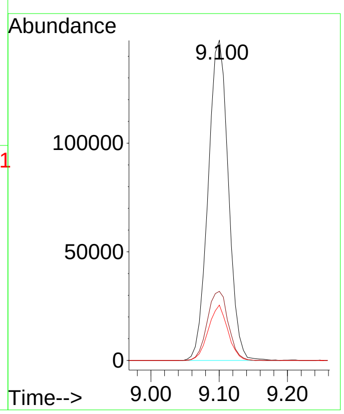




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:114 Resp: 304866

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	43.4
88	17.3	0.0	32.6



Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

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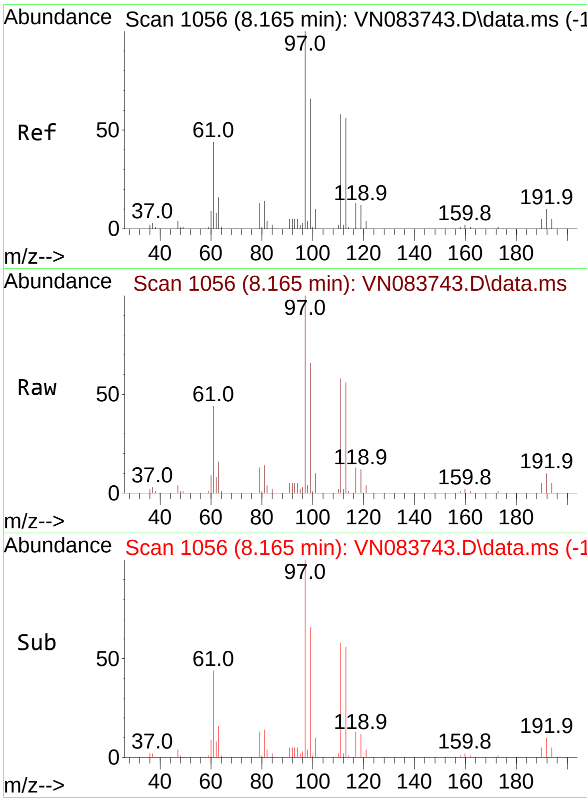
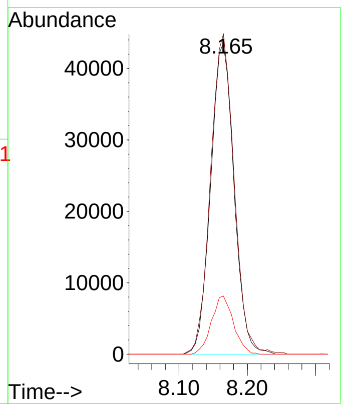
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

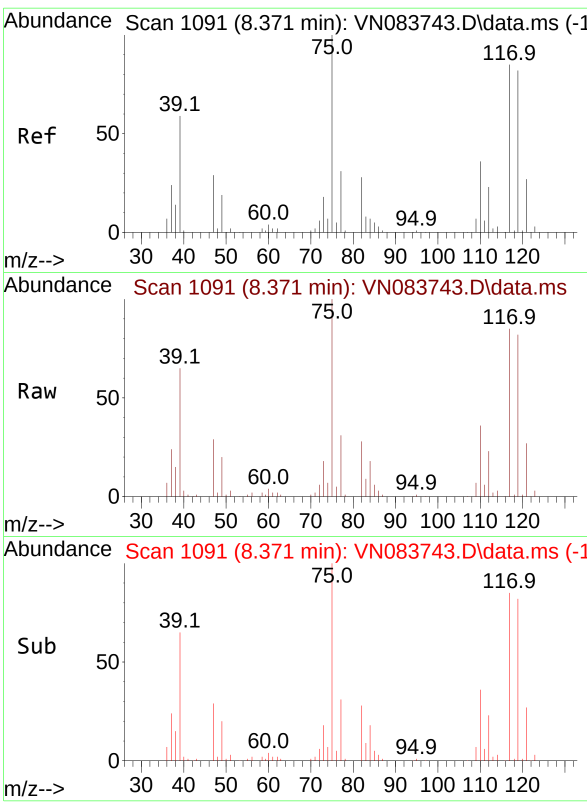


#35
Dibromofluoromethane
Concen: 53.049 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:113 Resp: 10353

Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.6	124.0
192	17.6	14.3	21.5

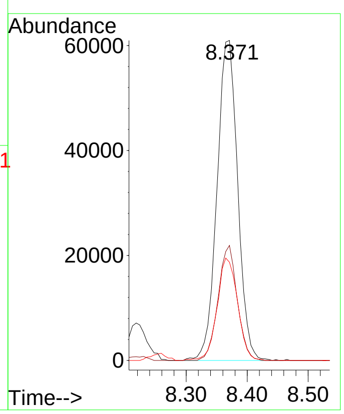


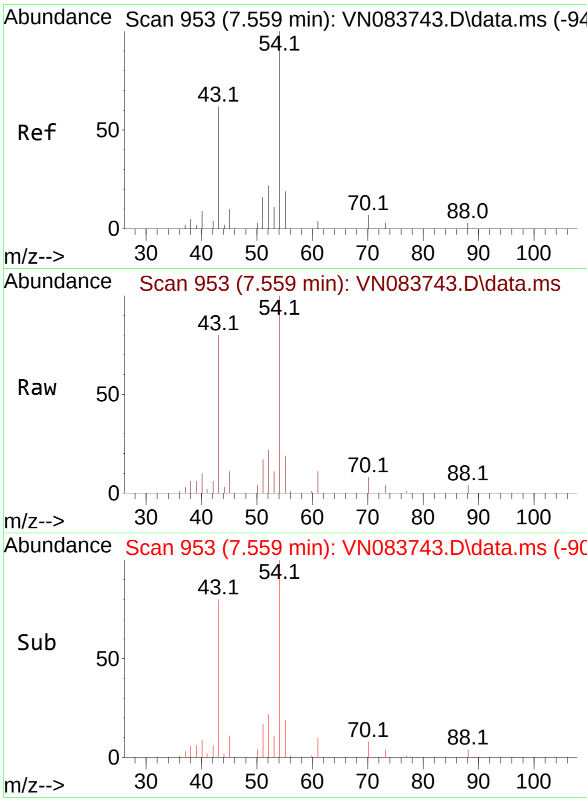


#36
1,1-Dichloropropene
Concen: 48.996 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 75 Resp: 143931

Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.7	50.1
77	31.6	25.2	37.8

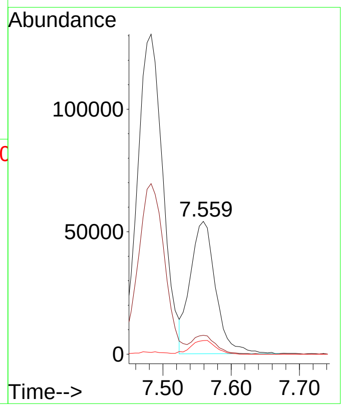




#37
Ethyl Acetate
Concen: 52.402 ug/l
RT: 7.559 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 43 Resp: 13972

Ion	Ratio	Lower	Upper
43	100		
61	13.1	11.1	16.7
70	10.1	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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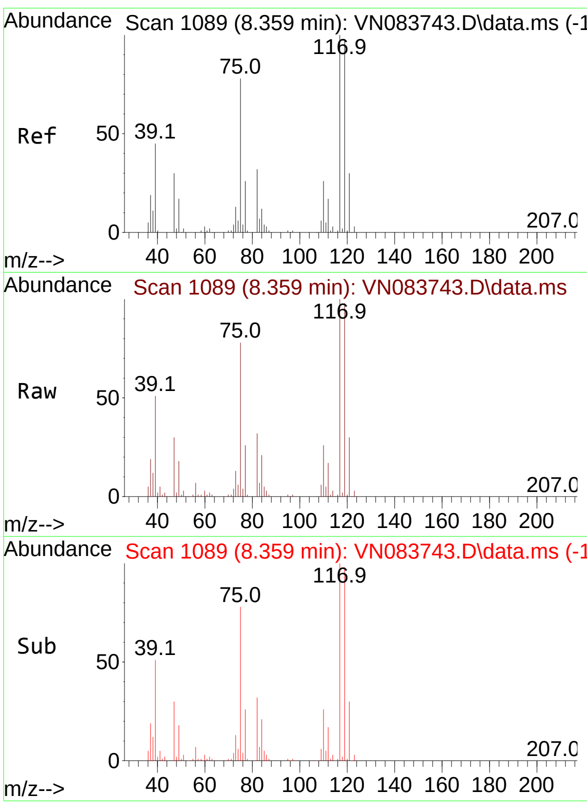
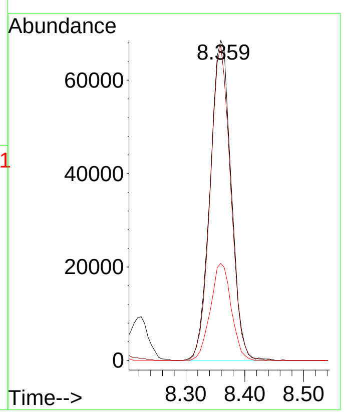
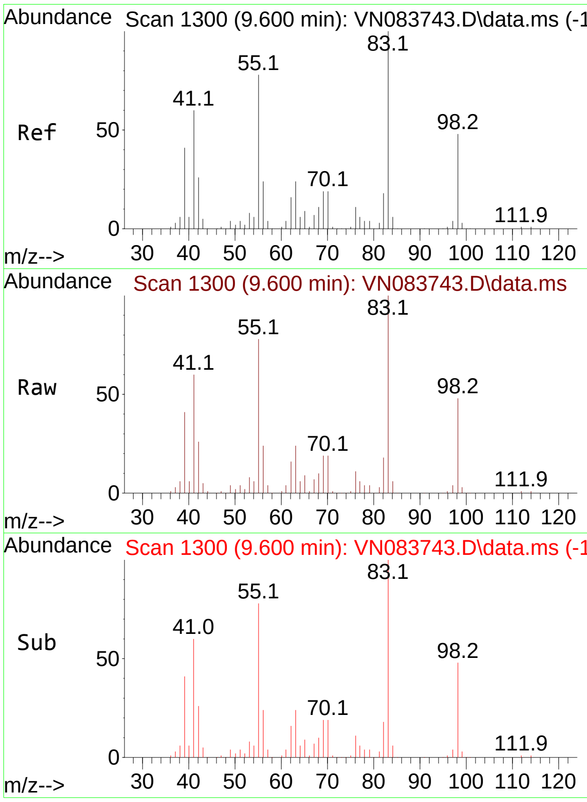


#38
Carbon Tetrachloride
Concen: 51.362 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:117 Resp: 171174

Ion	Ratio	Lower	Upper
117	100		
119	98.4	76.1	114.1
121	30.3	24.1	36.1





#39
Methylcyclohexane
Concen: 52.200 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
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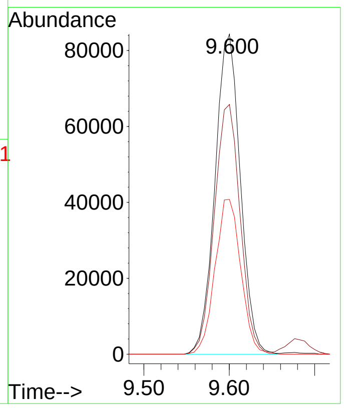
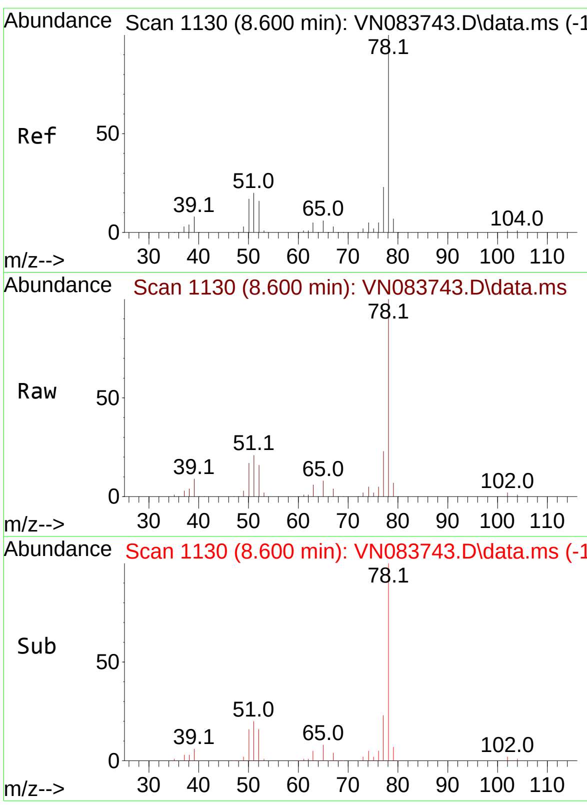
Tgt Ion: 83 Resp: 17454

Ion	Ratio	Lower	Upper
83	100		
55	78.0	62.2	93.4
98	48.4	37.6	56.4

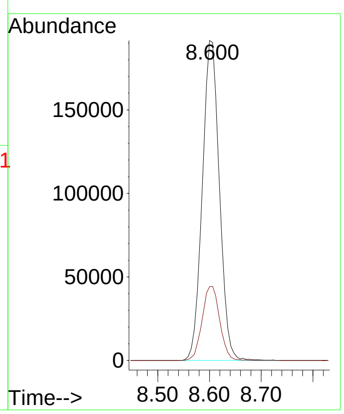


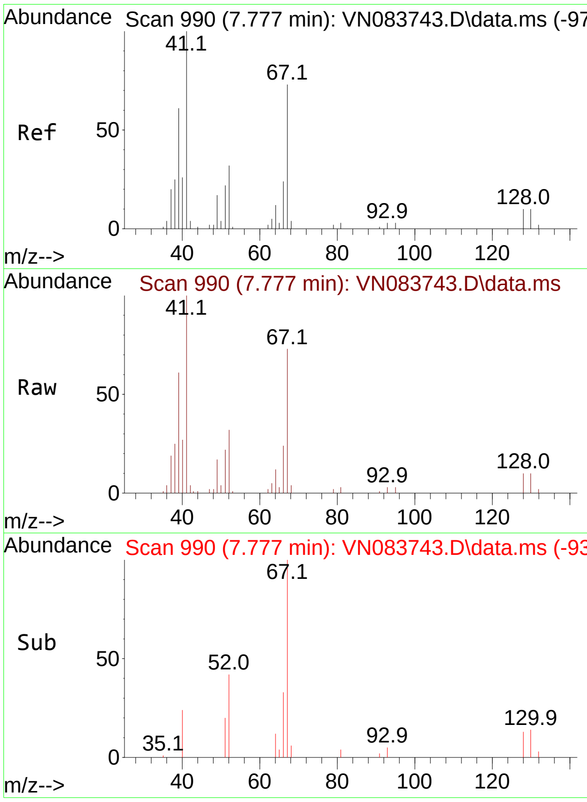


#40
Benzene
Concen: 49.691 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 78 Resp: 439364

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.0	28.6





#41
Methacrylonitrile
Concen: 51.026 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

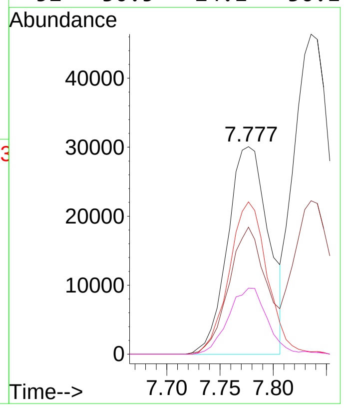
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

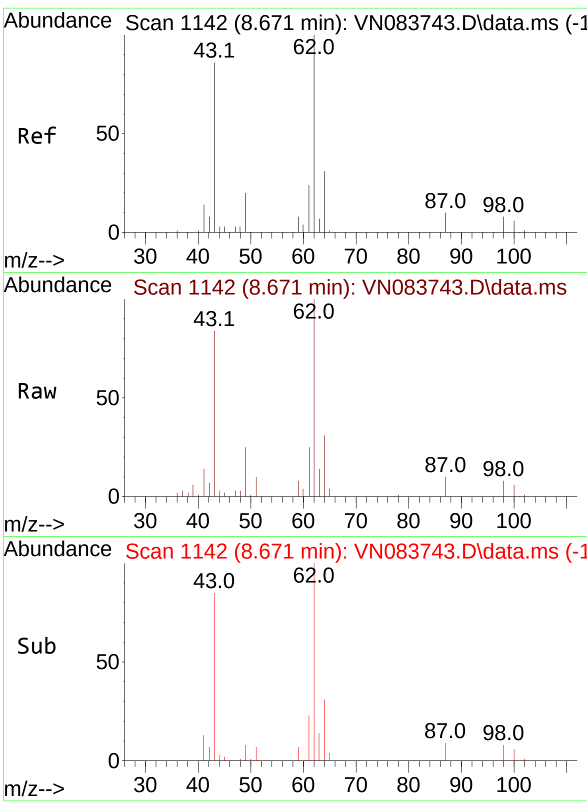
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Tgt Ion: 41 Resp: 8047

Ion	Ratio	Lower	Upper
41	100		
39	56.6	45.4	68.2
67	68.5	55.9	83.9
52	30.5	24.1	36.1

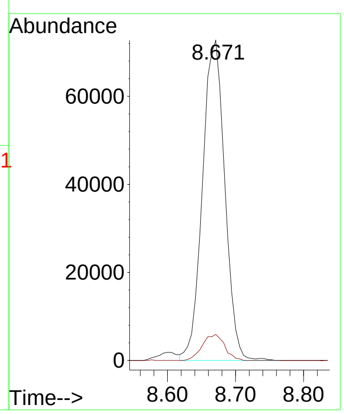


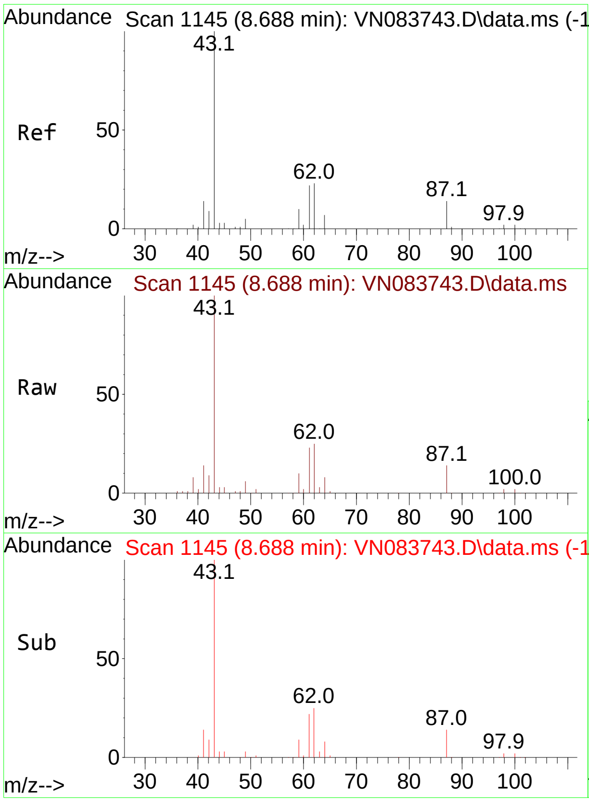


#42
1,2-Dichloroethane
Concen: 50.370 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 62 Resp: 166416

Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	16.6





#43
Isopropyl Acetate
Concen: 50.218 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

Tgt Ion: 43 Resp: 24265

Ion	Ratio	Lower	Upper
43	100		
61	26.2	19.4	29.0
87	13.2	9.8	14.6

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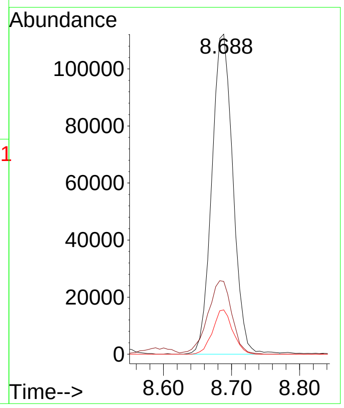
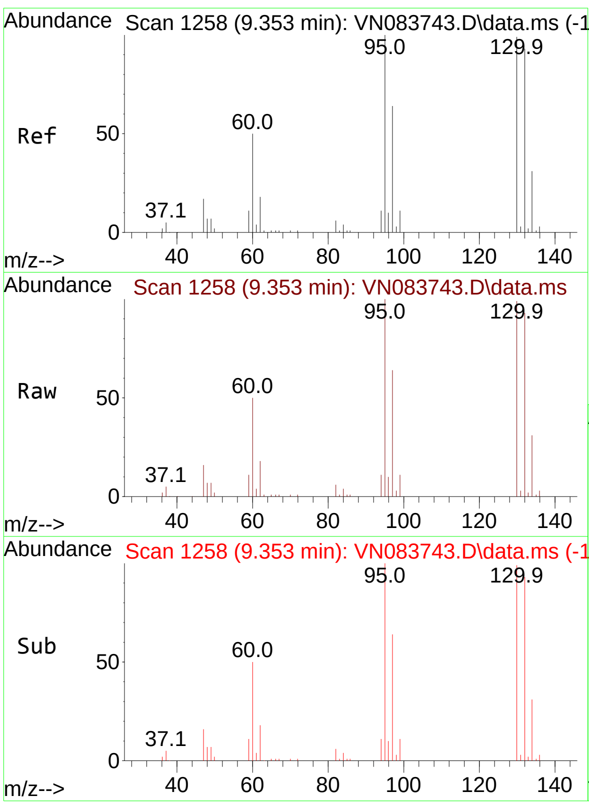
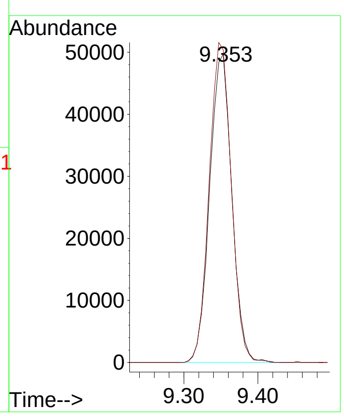




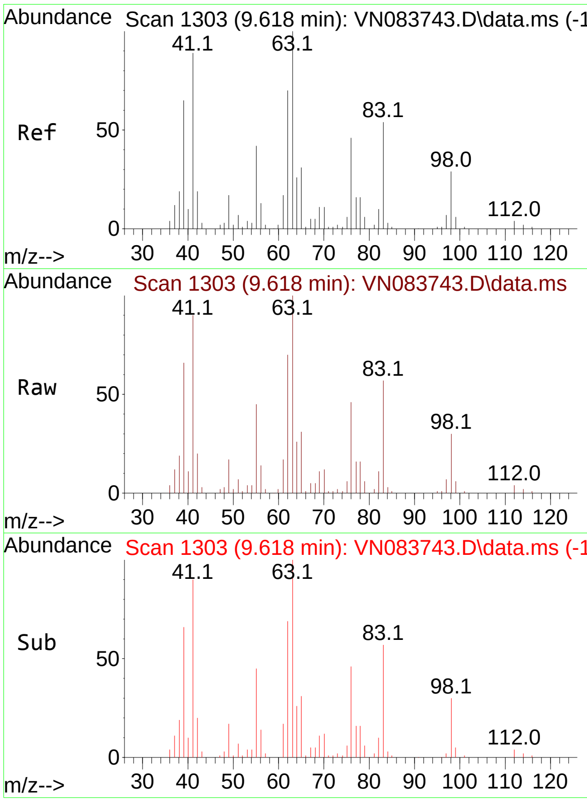
#44
Trichloroethene
Concen: 50.604 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:130 Resp: 103614

Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	200.4



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#45
1,2-Dichloropropane
Concen: 49.798 ug/l
RT: 9.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 63 Resp: 10641

Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.9	38.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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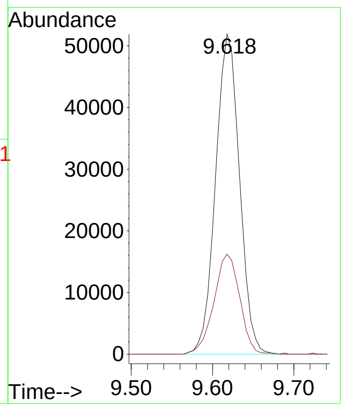
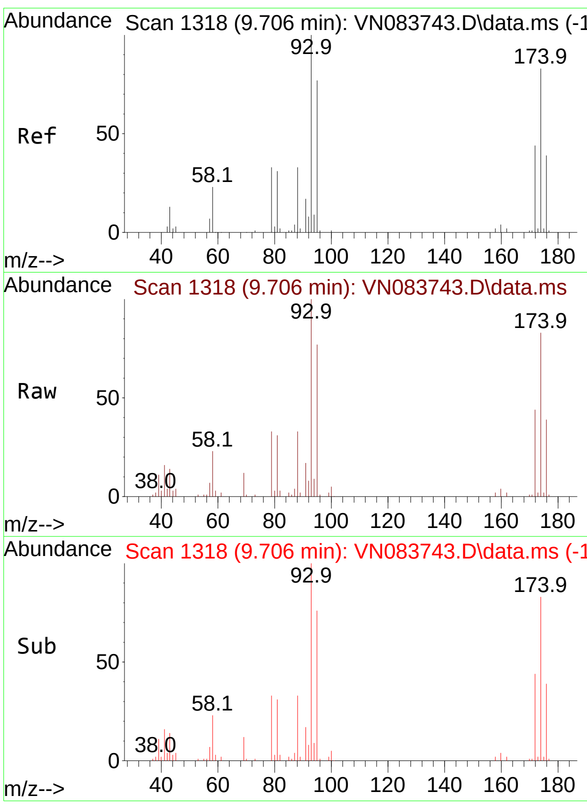
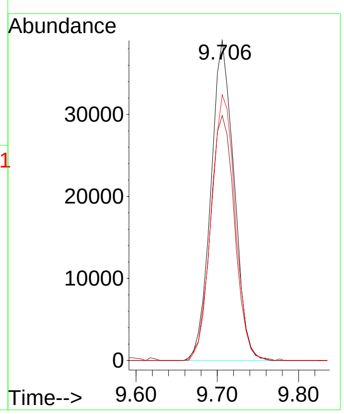




#46
Dibromomethane
Concen: 51.768 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 93 Resp: 77488

Ion	Ratio	Lower	Upper
93	100		
95	80.6	65.3	97.9
174	85.3	71.0	106.4



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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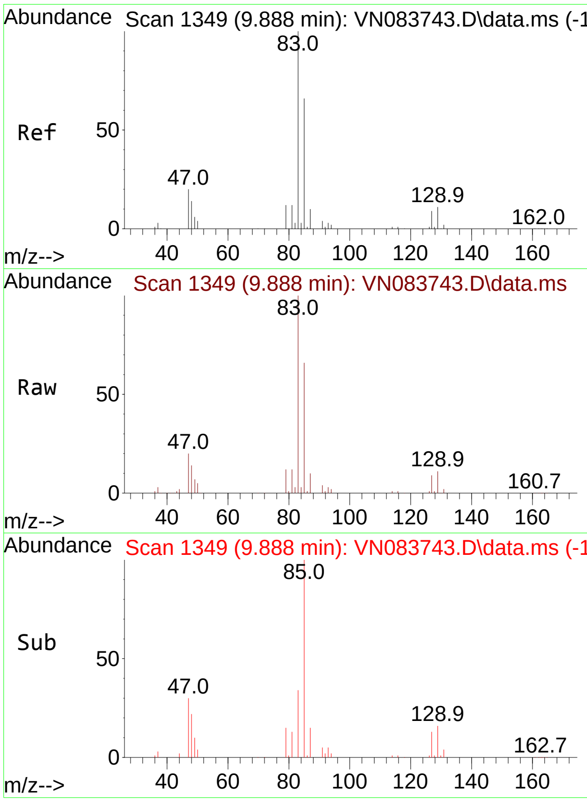
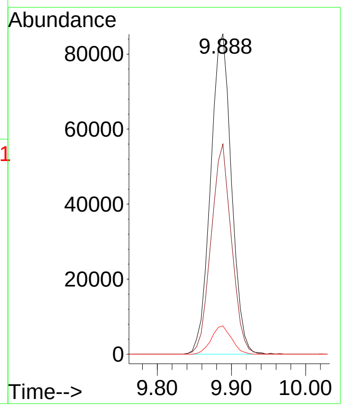
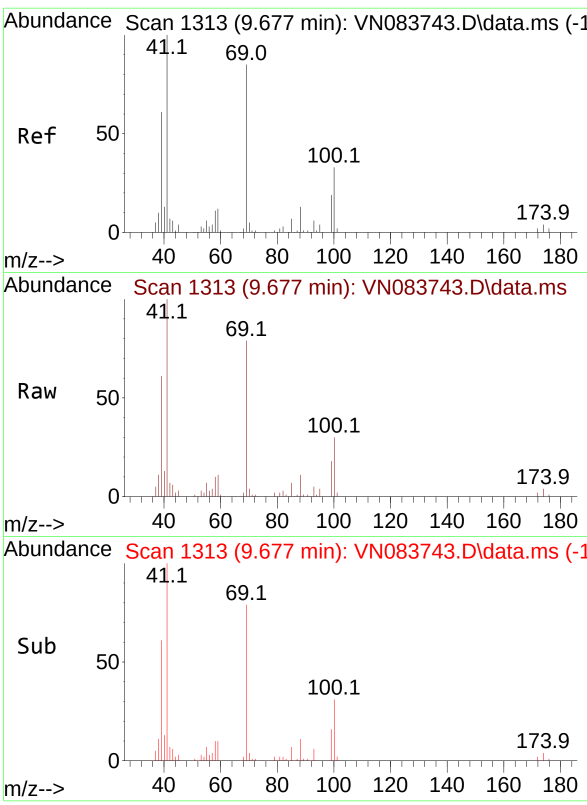


#47
Bromodichloromethane
Concen: 51.674 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 83 Resp: 16739

Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.8	77.8
127	8.9	6.6	9.8

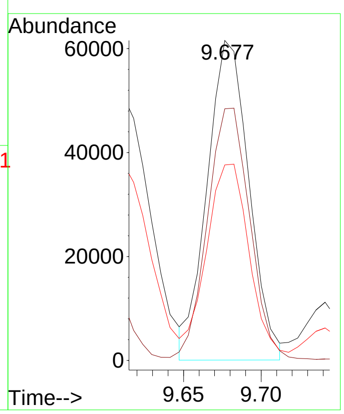


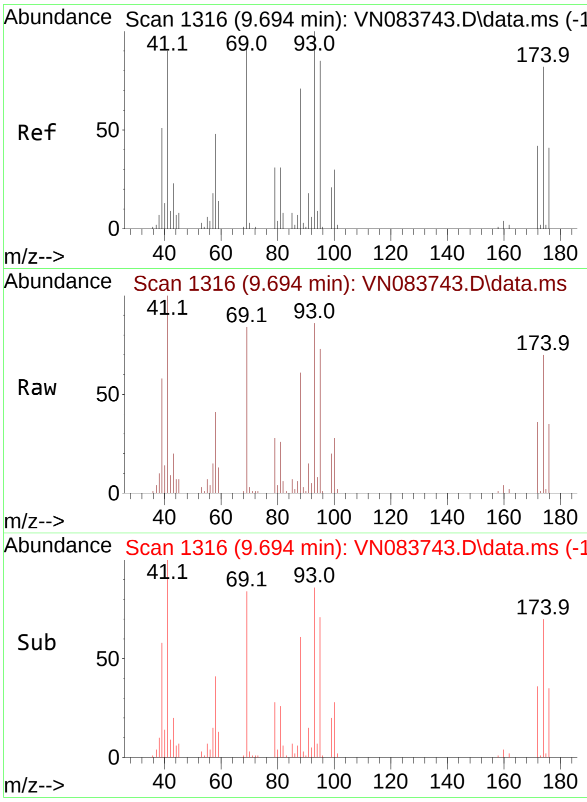


#48
Methyl methacrylate
Concen: 50.305 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 41 Resp: 115324

Ion	Ratio	Lower	Upper
41	100		
69	80.6	64.3	96.5
39	63.7	48.9	73.3

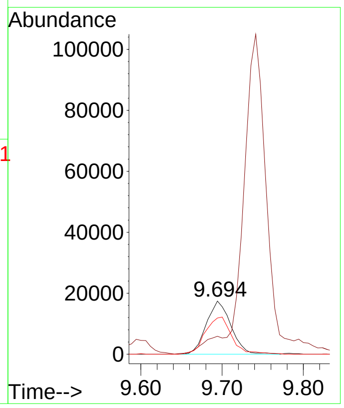




#49
1,4-Dioxane
Concen: 971.017 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 88 Resp: 3662

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	74.9	57.1	85.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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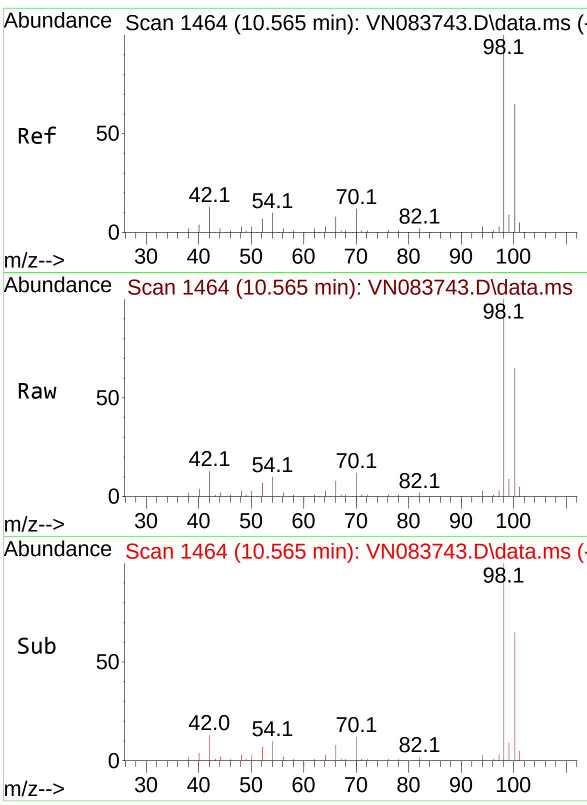
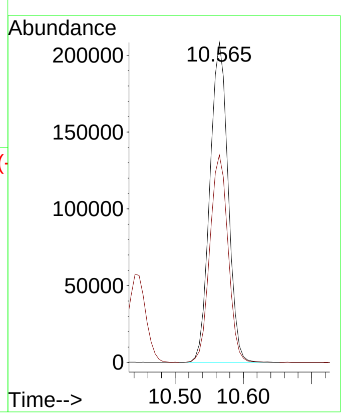


#50
Toluene-d8
Concen: 57.446 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 98 Resp: 387600

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.0	78.0



Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

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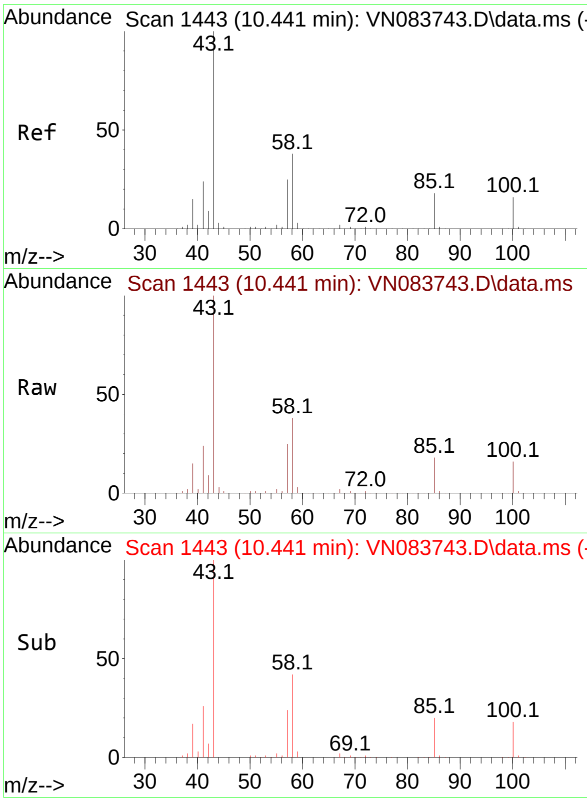
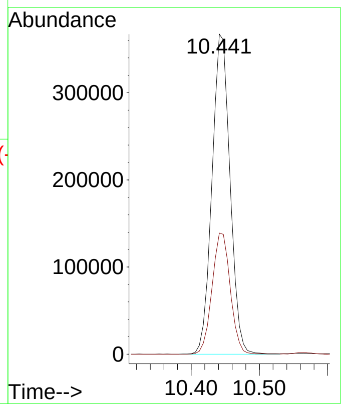
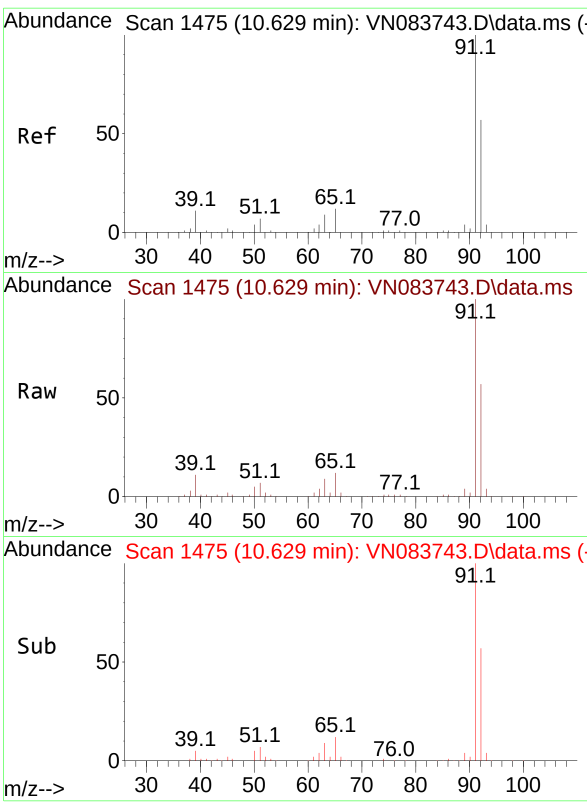


#51
4-Methyl-2-Pentanone
Concen: 256.804 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 43 Resp: 67547

Ion	Ratio	Lower	Upper
43	100		
58	38.2	31.6	47.4

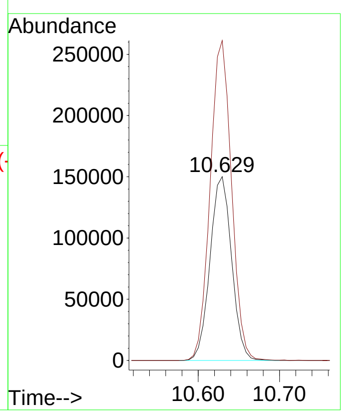




#52
Toluene
Concen: 51.189 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 92 Resp: 276845

Ion	Ratio	Lower	Upper
92	100		
91	172.3	134.7	202.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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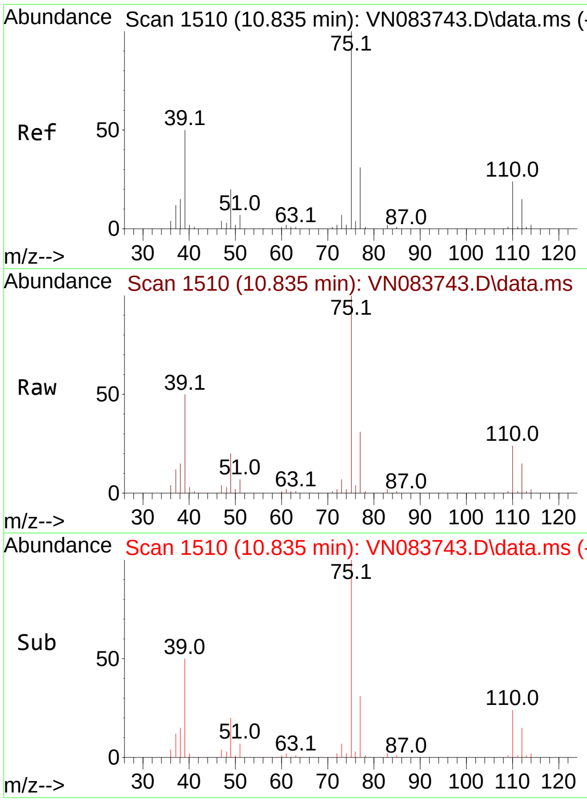
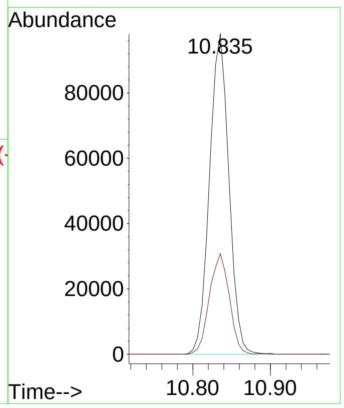
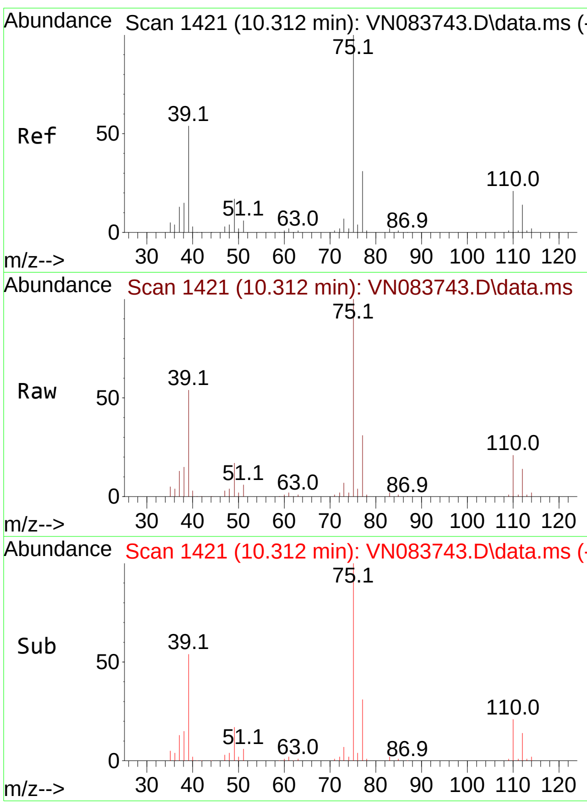


#53
t-1,3-Dichloropropene
Concen: 51.855 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 75 Resp: 17027

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6

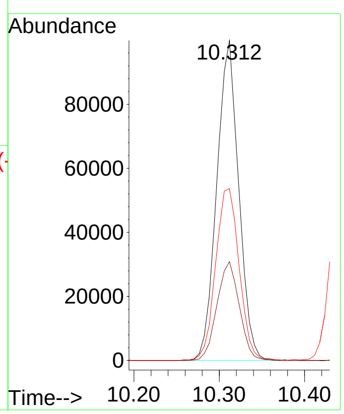




#54
cis-1,3-Dichloropropene
Concen: 51.823 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 75 Resp: 178747

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.0	37.6
39	53.7	42.6	64.0



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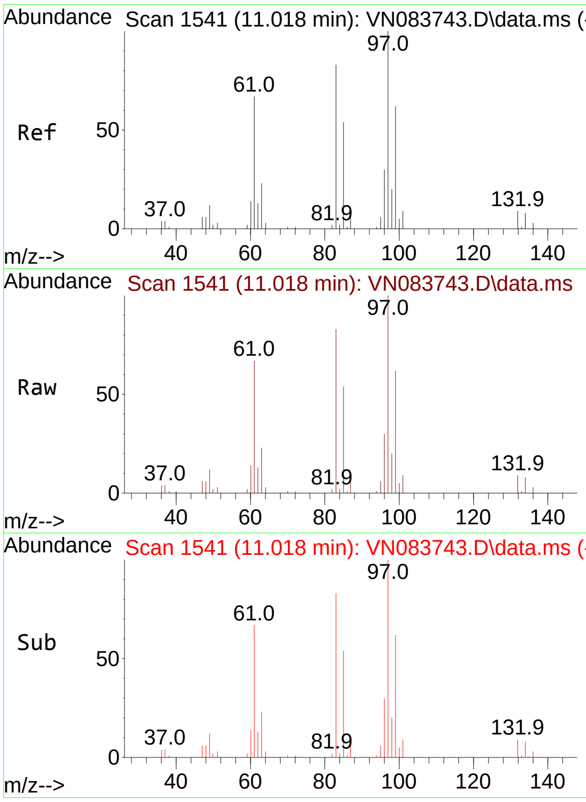

#55
1,1,2-Trichloroethane
Concen: 49.547 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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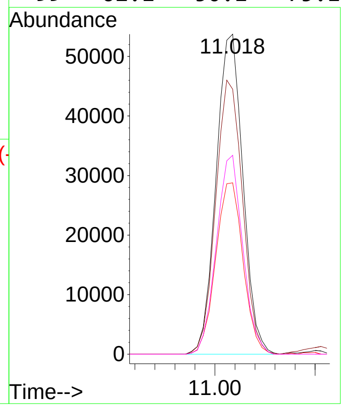
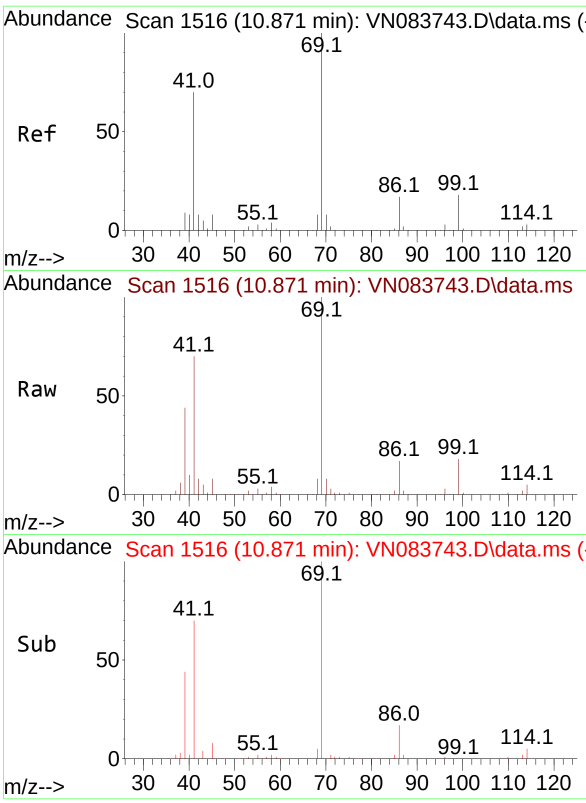
Tgt Ion: 97 Resp: 10004

Ion	Ratio	Lower	Upper
97	100		
83	82.8	67.5	101.3
85	53.5	44.2	66.2
99	62.1	50.1	75.1

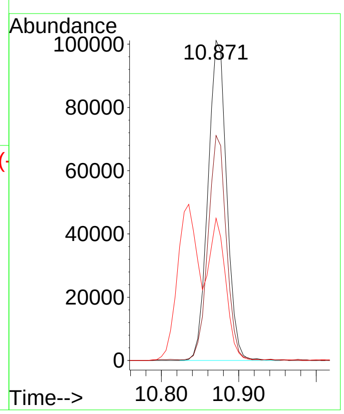




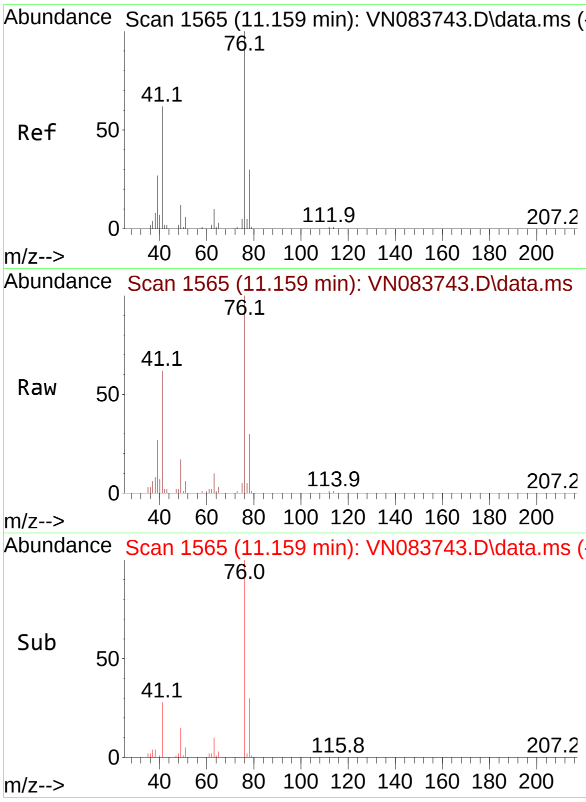
#56
Ethyl methacrylate
Concen: 54.624 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 69 Resp: 169686

Ion	Ratio	Lower	Upper
69	100		
41	68.2	53.9	80.9
39	40.8	32.6	48.8



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#57
1,3-Dichloropropane
Concen: 50.562 ug/l
RT: 11.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 76 Resp: 17545

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.6

Instrument :
MSVOA_N
ClientSampleId :
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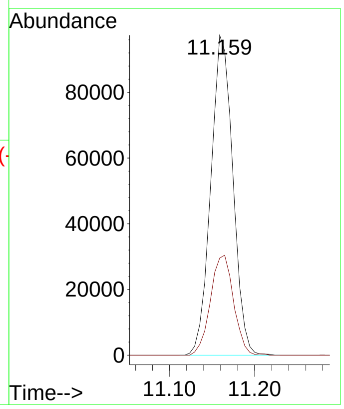
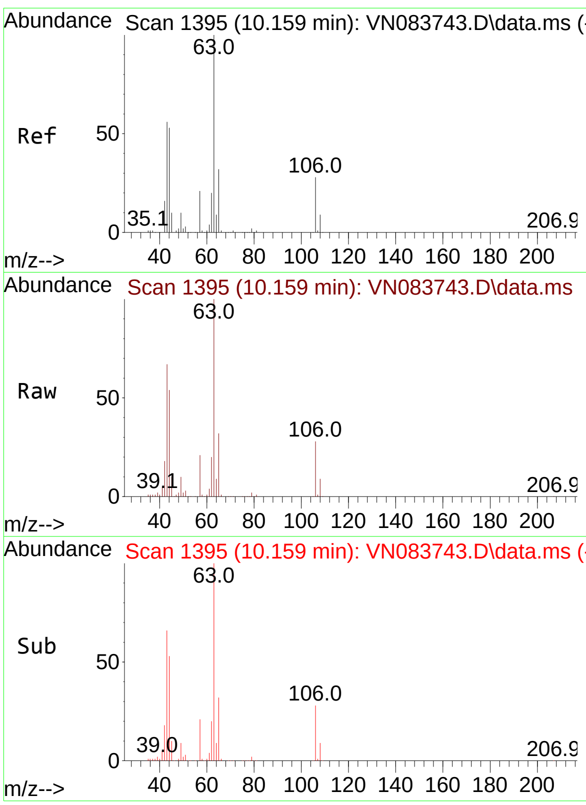
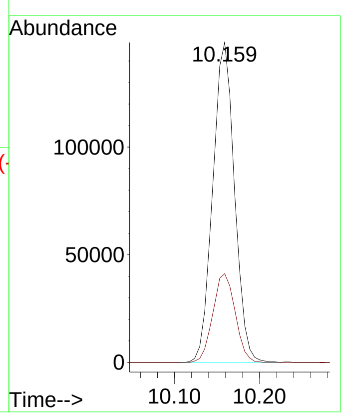


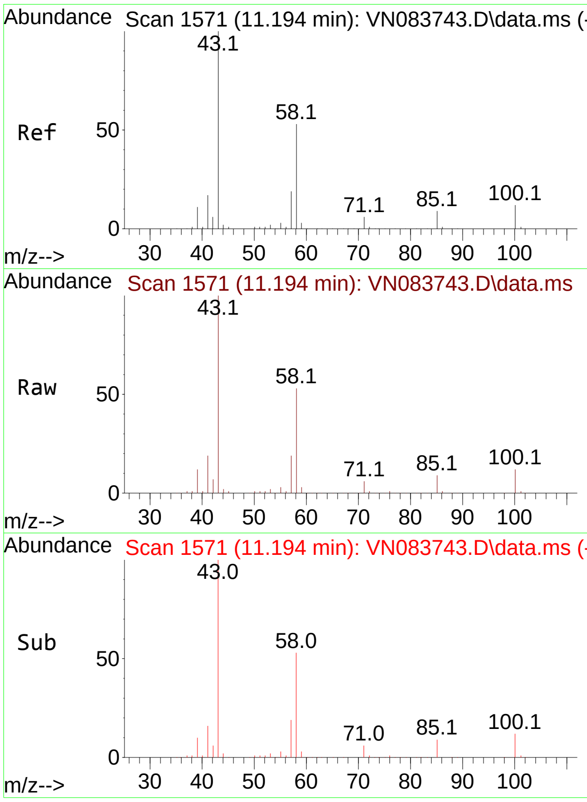


#58
2-Chloroethyl Vinyl ether
Concen: 235.930 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 63 Resp: 264081

Ion	Ratio	Lower	Upper
63	100		
106	28.5	23.3	34.9





#59
2-Hexanone
Concen: 257.751 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 43 Resp: 50150

Ion	Ratio	Lower	Upper
43	100		
58	53.2	27.2	81.5

Instrument :
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VSTDICCC050

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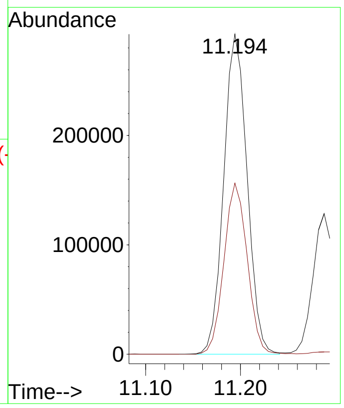

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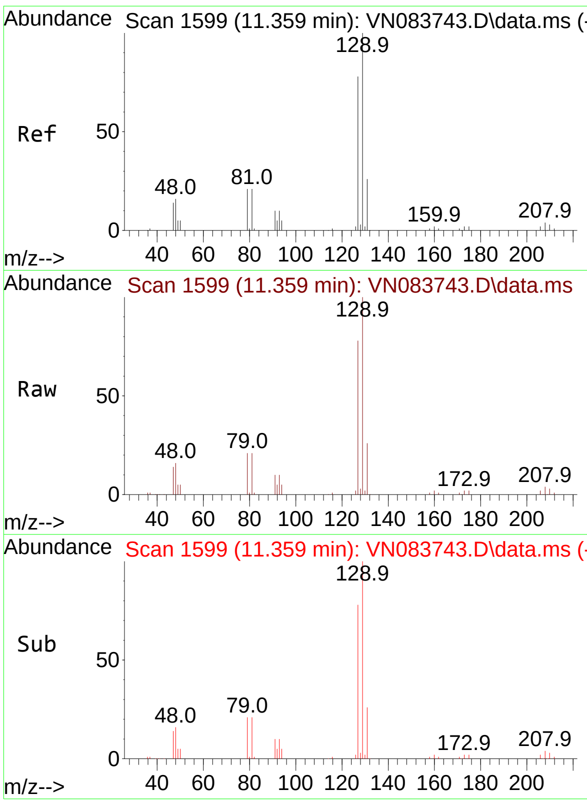
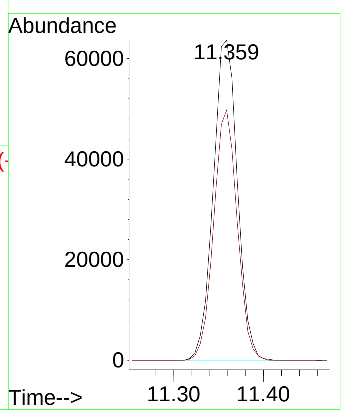
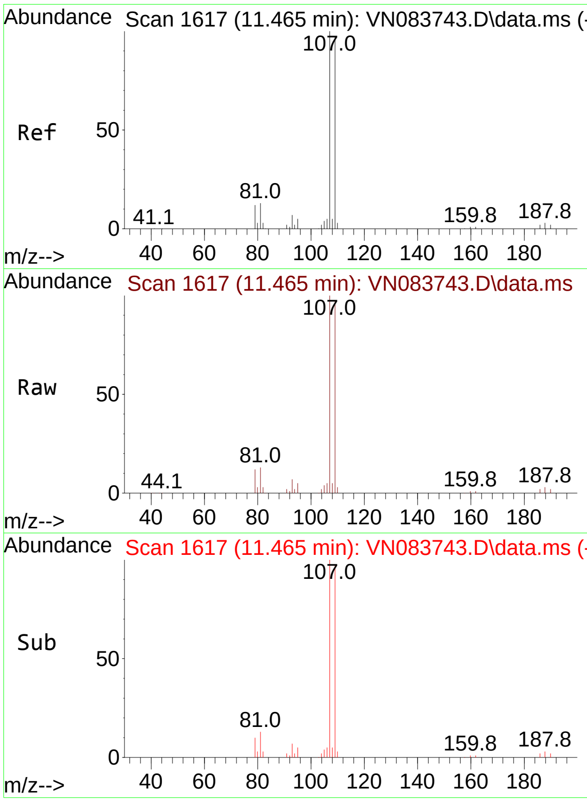


#60
Dibromochloromethane
Concen: 52.899 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:129 Resp: 119533

Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.0	116.9#





#61
1,2-Dibromoethane
Concen: 50.281 ug/l
RT: 11.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:107 Resp: 10124

Ion	Ratio	Lower	Upper
107	100		
109	94.7	75.6	113.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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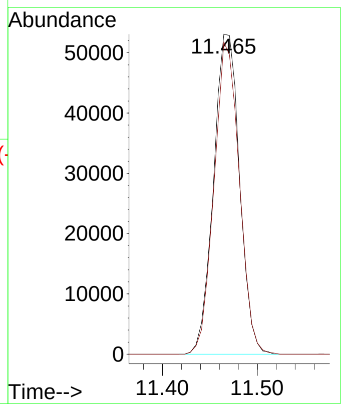
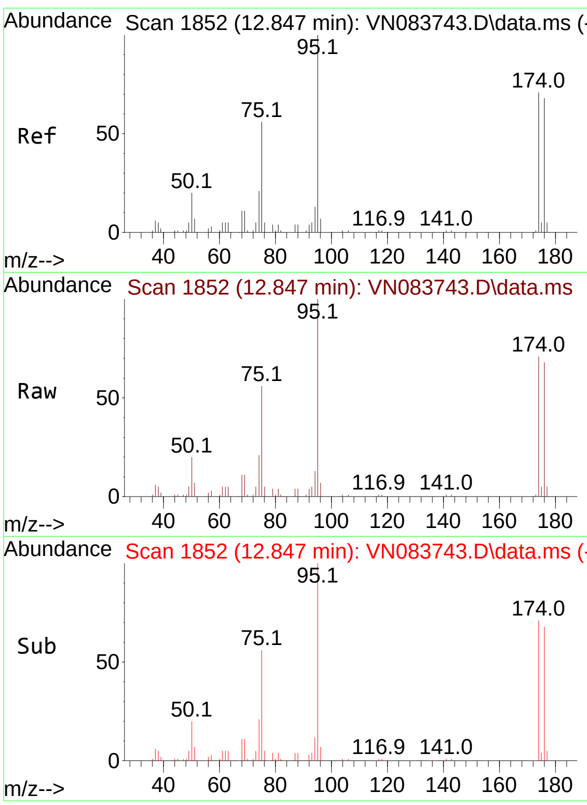
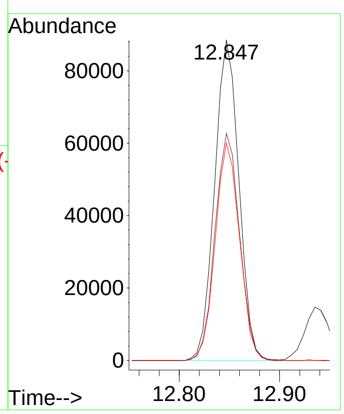




#62
4-Bromofluorobenzene
Concen: 53.401 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 95 Resp: 148654

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	139.8
176	67.9	0.0	131.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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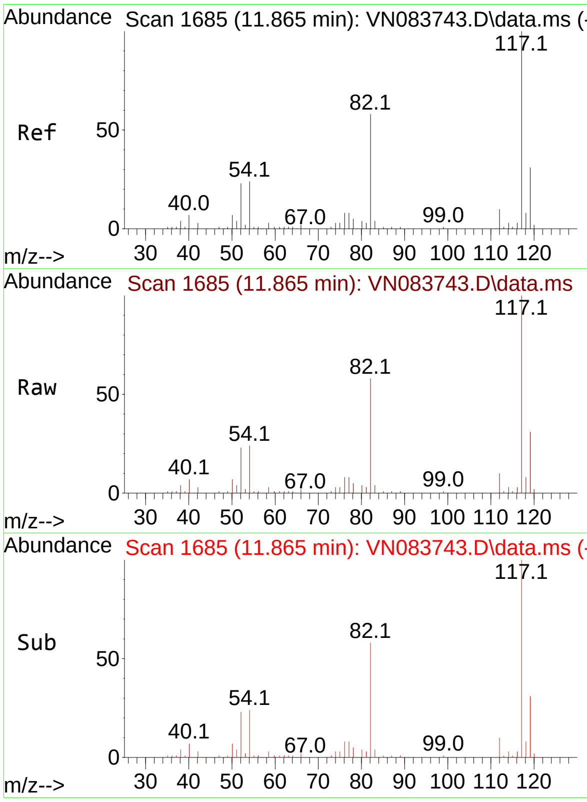
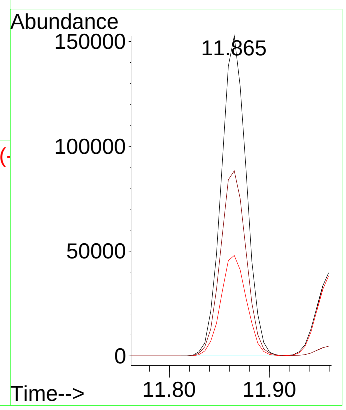
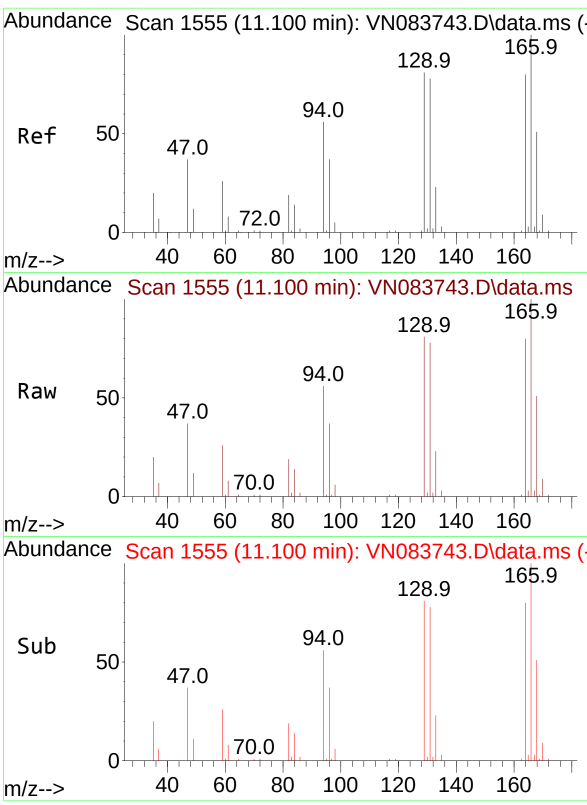


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:117 Resp: 265988

Ion	Ratio	Lower	Upper
117	100		
82	57.9	47.4	71.0
119	31.4	26.3	39.5

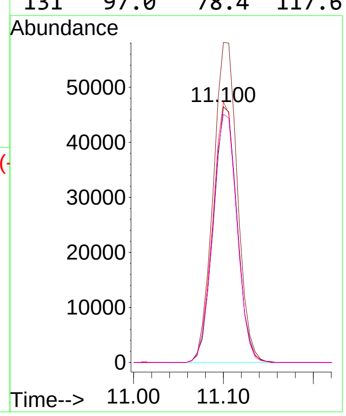




#64
Tetrachloroethene
Concen: 48.327 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:164 Resp: 85484

Ion	Ratio	Lower	Upper
164	100		
166	125.1	103.7	155.5
129	101.8	79.9	119.9
131	97.0	78.4	117.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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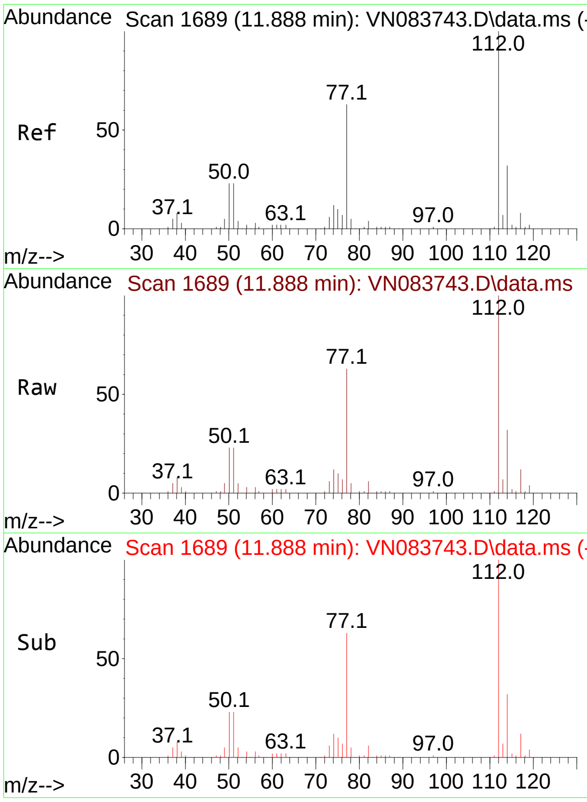
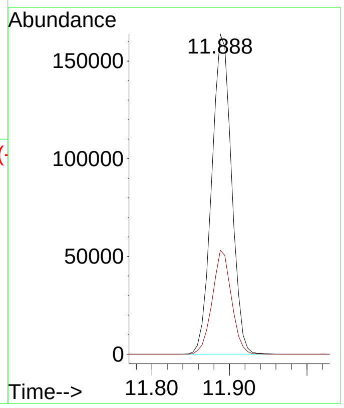
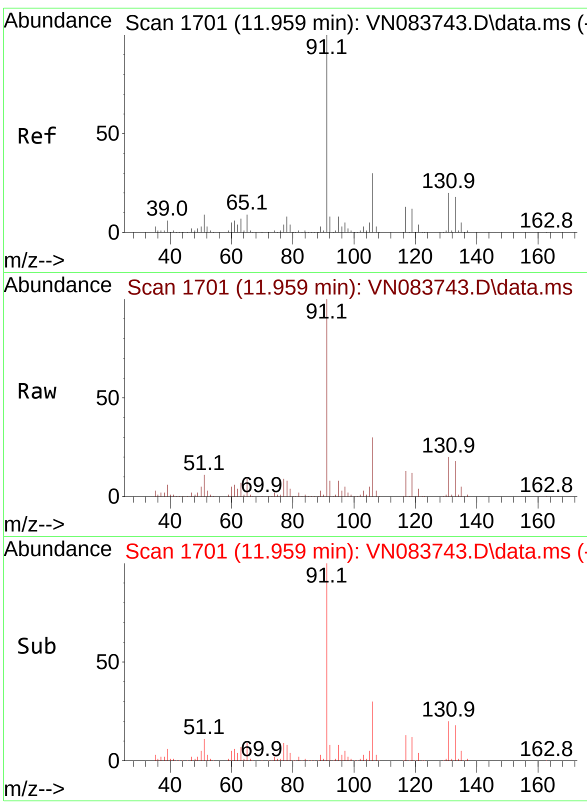
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024




```
#65
Chlorobenzene
Concen:   49.084 ug/l
RT:  11.888 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083743.D
Acq: 10 Sep 2024  09:32

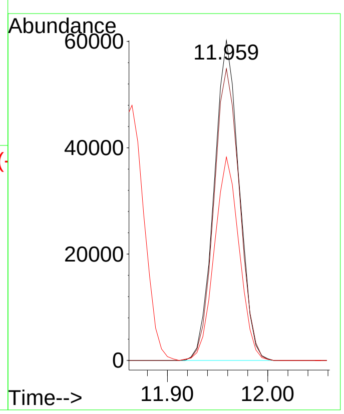
Tgt Ion:112 Resp:  29016
Ion  Ratio  Lower  Upper
112  100
114   32.5   25.7   38.5
```






```
#66
1,1,1,2-Tetrachloroethane
Concen:   51.096 ug/l
RT:  11.959 min  Scan# 1701
Delta R.T.  0.000 min
Lab File:   VN083743.D
Acq: 10 Sep 2024  09:32

Tgt Ion:131 Resp:  104718
Ion  Ratio  Lower  Upper
131  100
133   93.2   47.5  142.6
119   63.0   31.6   94.8
```



Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

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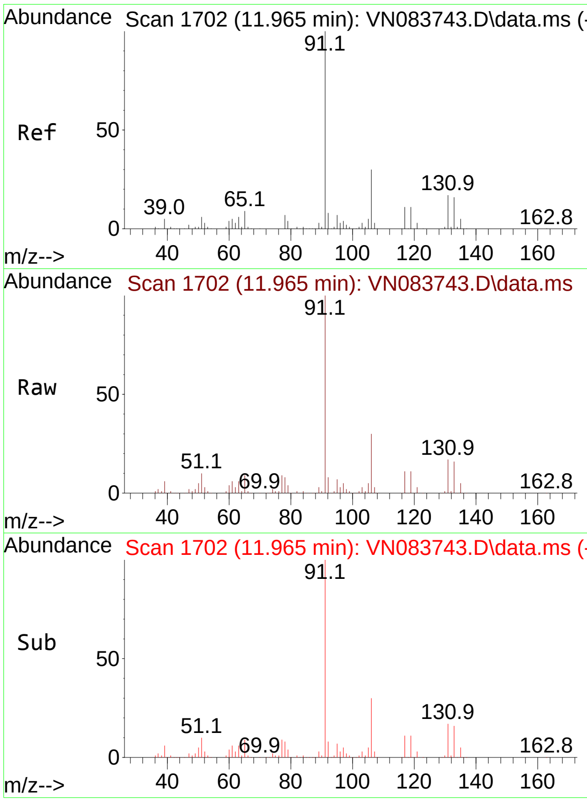
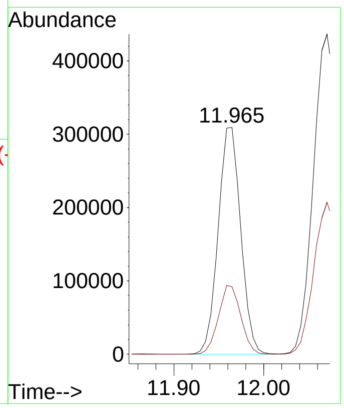
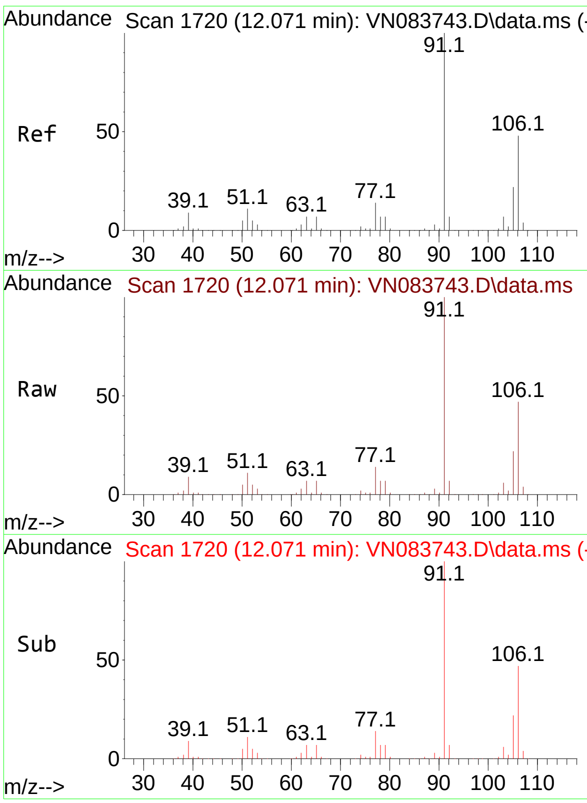



```
#67
Ethyl Benzene
Concen:   51.395 ug/l
RT:  11.965 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083743.D
Acq: 10 Sep 2024  09:32

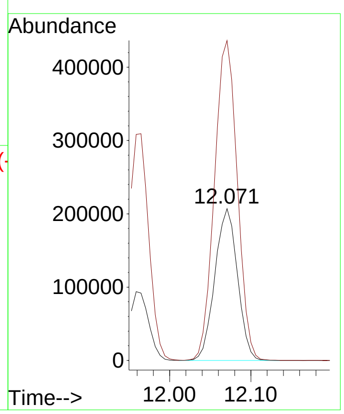
Tgt Ion: 91 Resp:  53973
Ion  Ratio  Lower  Upper
 91  100
106   29.7   24.3   36.5
```






```
#68
m/p-Xylenes
Concen:  102.926 ug/l
RT:  12.071 min  Scan# 1720
Delta R.T.  0.000 min
Lab File:   VN083743.D
Acq: 10 Sep 2024  09:32

Tgt Ion:106 Resp:  401299
Ion  Ratio  Lower  Upper
106  100
 91  212.7  169.2  253.8
```



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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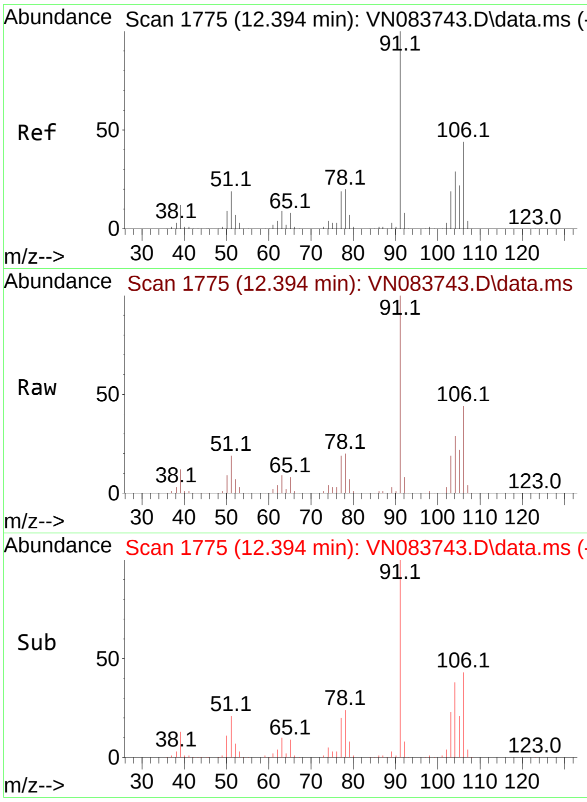
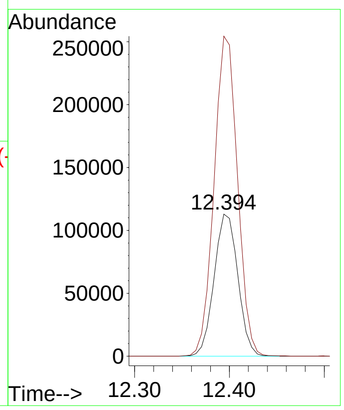
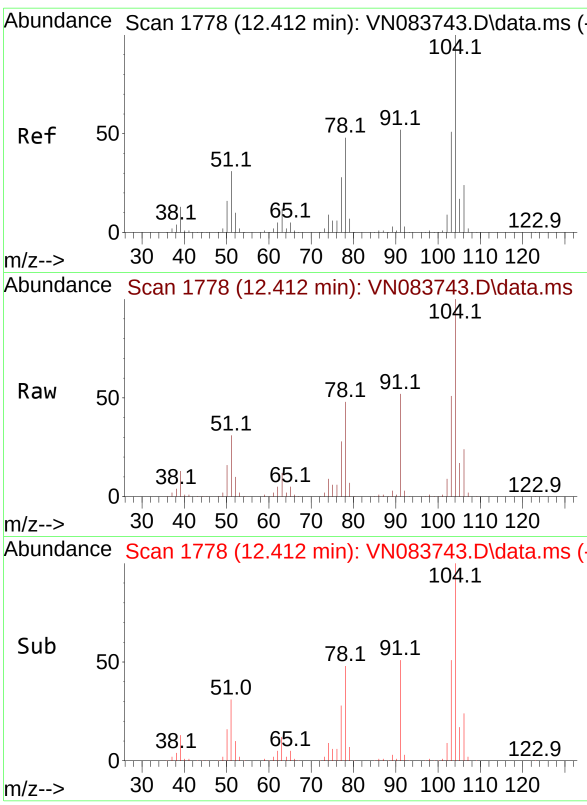


#69
o-Xylene
Concen: 52.119 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:106 Resp: 19672

Ion	Ratio	Lower	Upper
106	100		
91	222.4	112.9	338.6

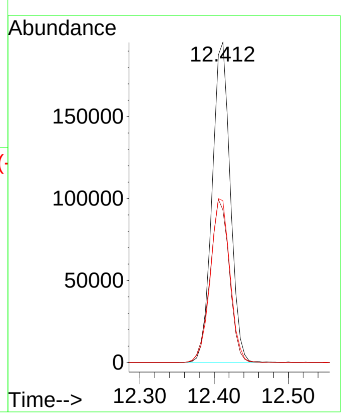




#70
Styrene
Concen: 53.417 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:104 Resp: 330888

Ion	Ratio	Lower	Upper
104	100		
78	54.3	43.3	64.9
103	55.5	43.4	65.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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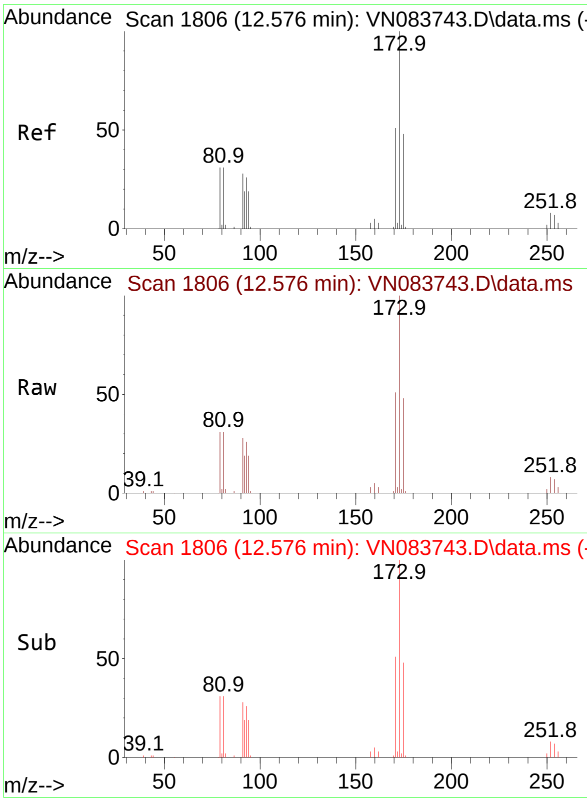
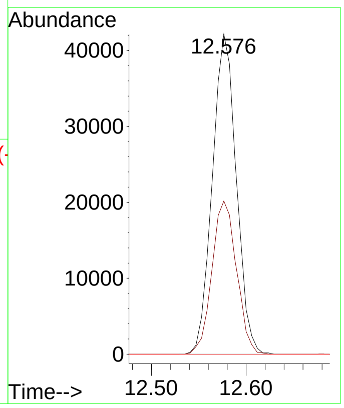
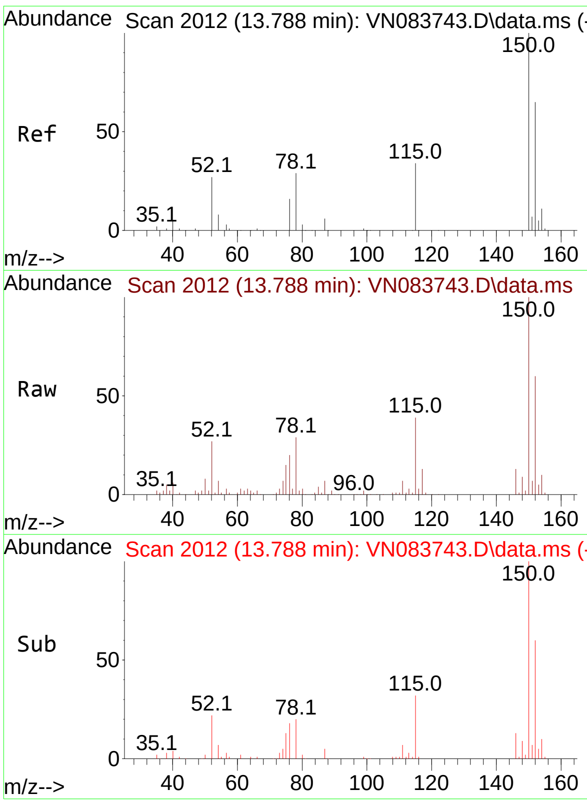


#71
Bromoform
Concen: 53.596 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:173 Resp: 7401

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.1	72.2
254	0.0	0.0	0.0

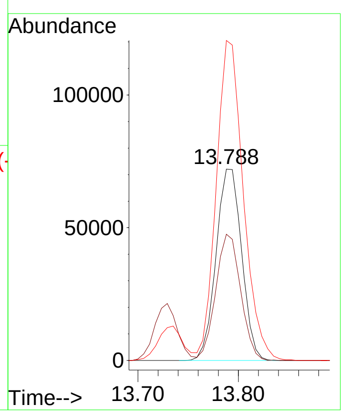


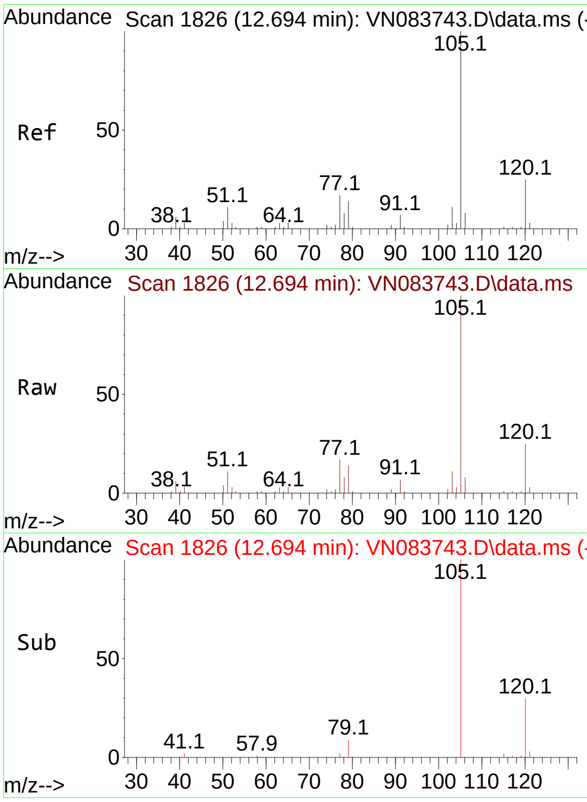


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:152 Resp: 127433

Ion	Ratio	Lower	Upper
152	100		
115	64.2	32.2	96.6
150	176.6	0.0	348.6





#73
Isopropylbenzene
Concen: 52.691 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 519478

Ion	Ratio	Lower	Upper
105	100		
120	25.2	12.6	37.8

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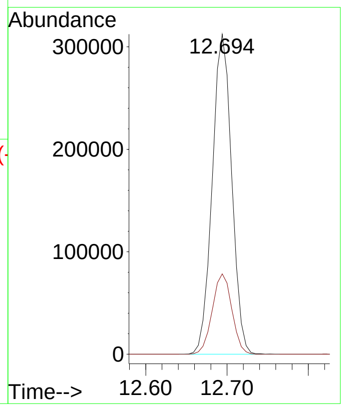
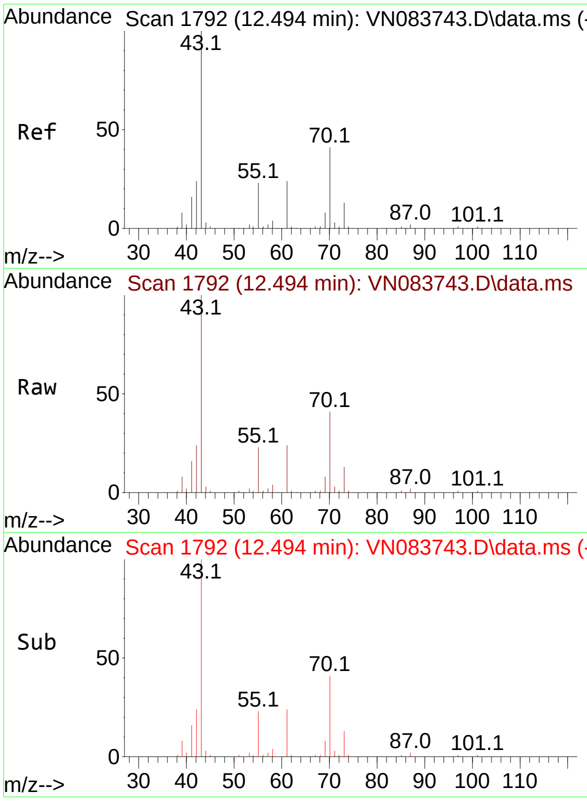
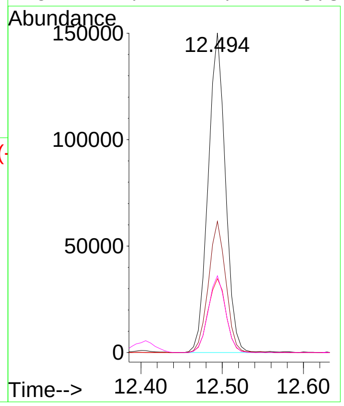


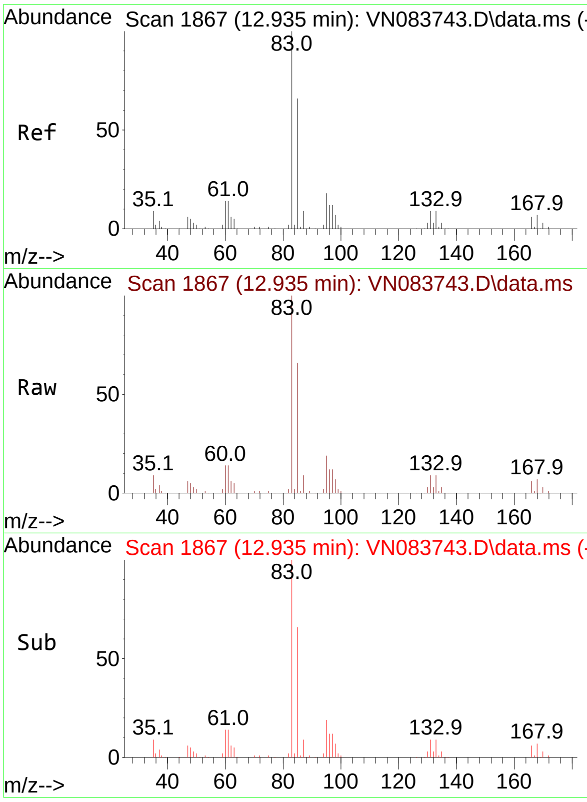


#74
N-amyl acetate
Concen: 52.682 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 43 Resp: 221603

Ion	Ratio	Lower	Upper
43	100		
70	41.2	34.5	51.7
55	24.0	18.6	28.0
61	24.1	19.2	28.8





#75
1,1,2,2-Tetrachloroethane
Concen: 48.166 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 83 Resp: 13952

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.2	15.6
85	65.5	31.9	95.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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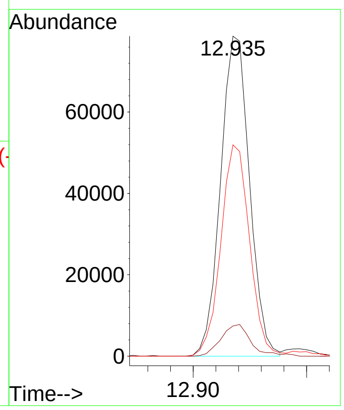
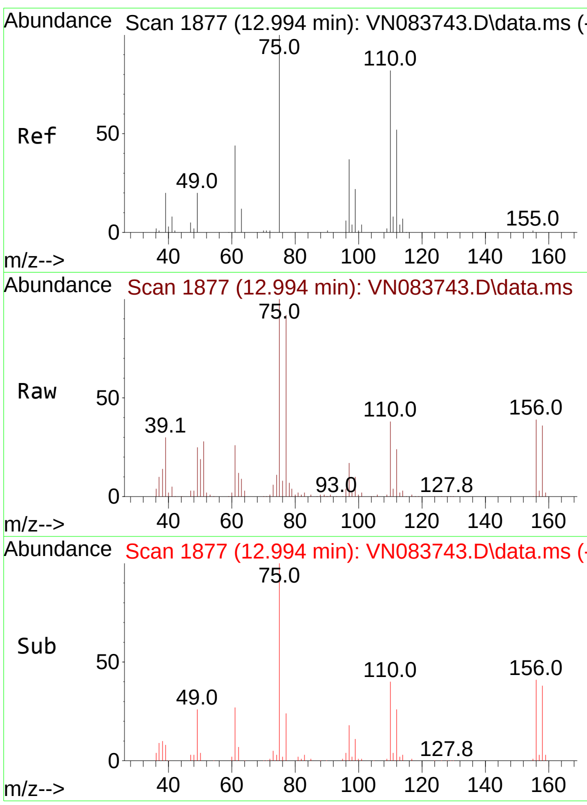


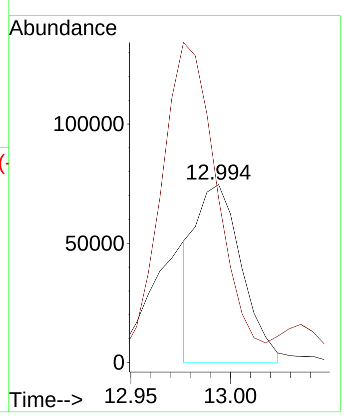
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

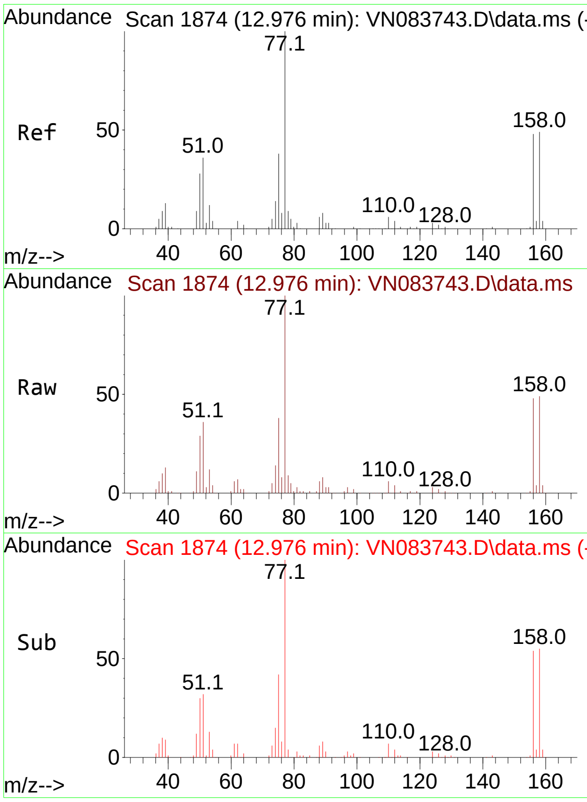


#76
1,2,3-Trichloropropane
Concen: 46.684 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 75 Resp: 120040

Ion	Ratio	Lower	Upper
75	100		
77	221.9	95.2	285.6





#77
Bromobenzene
Concen: 48.259 ug/l
RT: 12.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:156 Resp: 11452

Ion	Ratio	Lower	Upper
156	100		
77	232.6	114.3	343.1
158	97.8	48.9	146.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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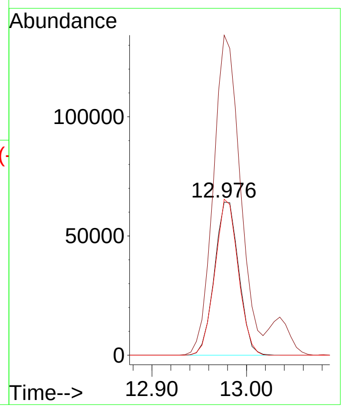

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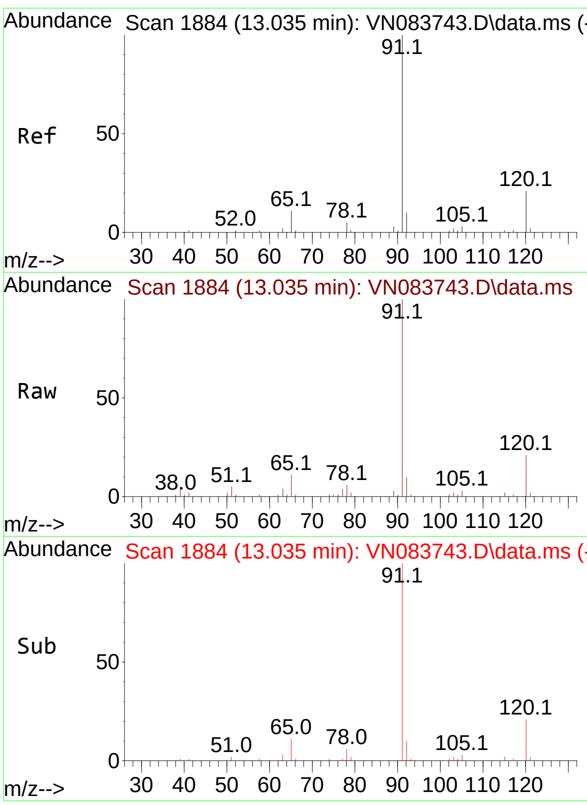
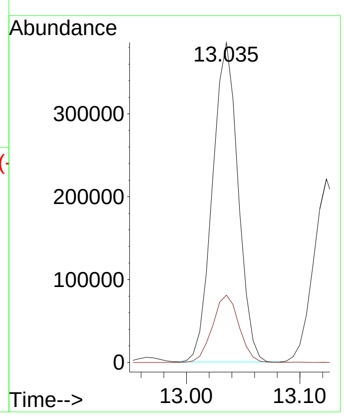


#78
n-propylbenzene
Concen: 52.864 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 91 Resp: 606410

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.0	33.0



Instrument :
MSVOA_N
ClientSampleId :
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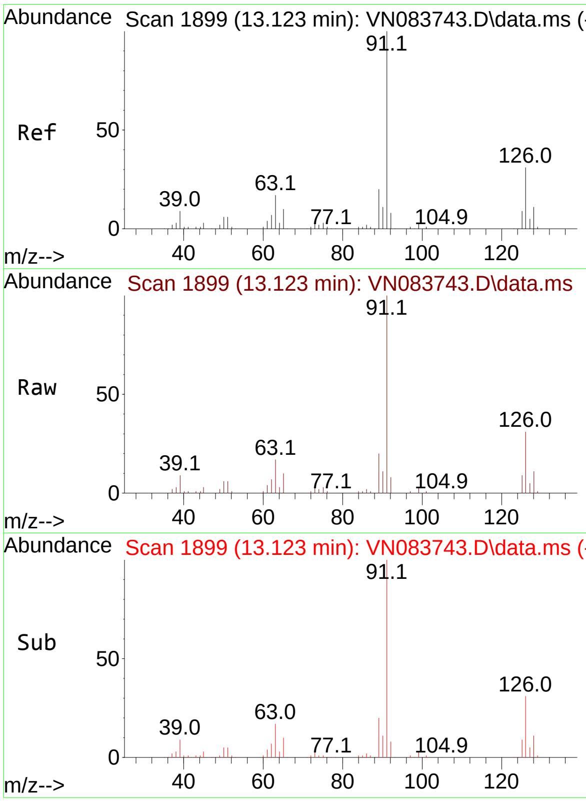
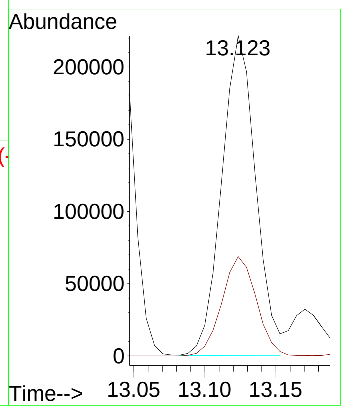
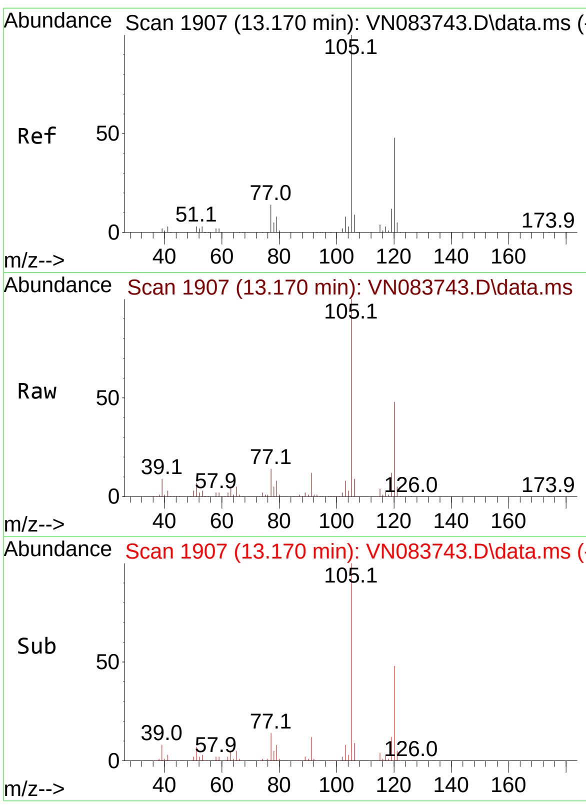


#79
2-Chlorotoluene
Concen: 50.391 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 91 Resp: 36864

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.4	46.2

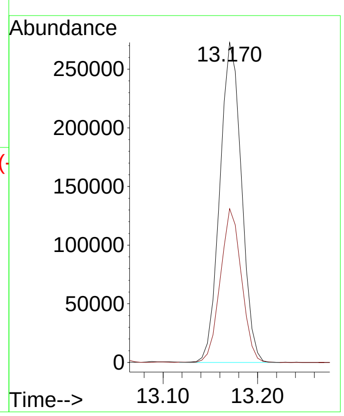


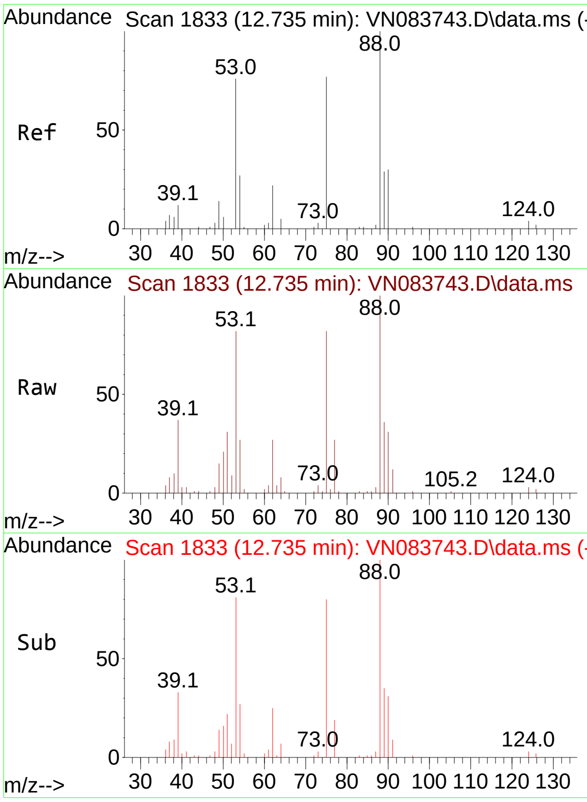


#80
1,3,5-Trimethylbenzene
Concen: 52.415 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:105 Resp: 435677

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.4	70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 53.325 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 75 Resp: 5235

Ion	Ratio	Lower	Upper
75	100		
53	105.7	81.2	121.8
89	44.3	35.7	53.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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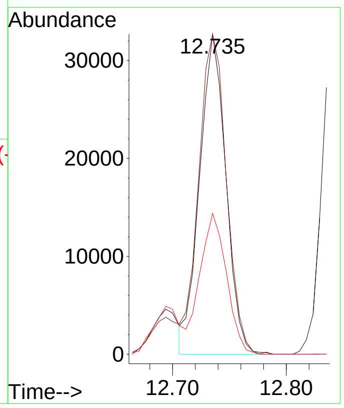
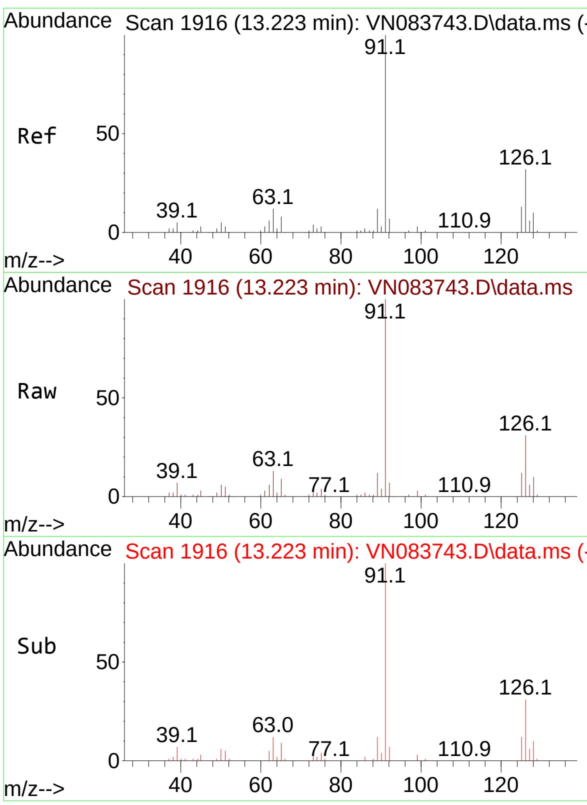
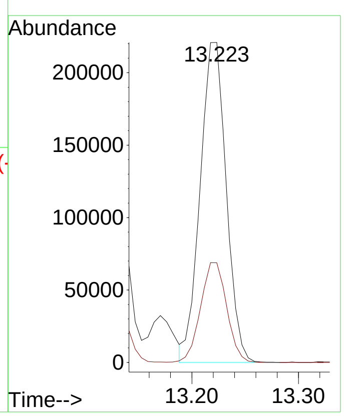




#82
4-Chlorotoluene
Concen: 51.180 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion: 91 Resp: 375734

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.4	46.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
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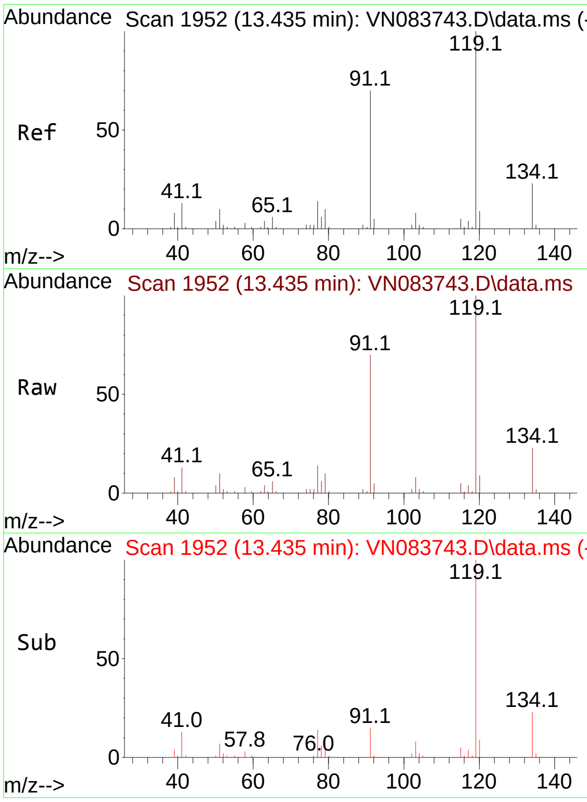
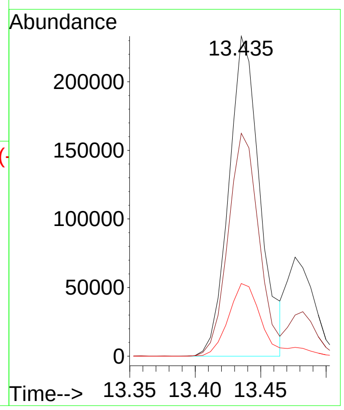
Supervised By :Semsettin Yesilyurt 09/11/2024

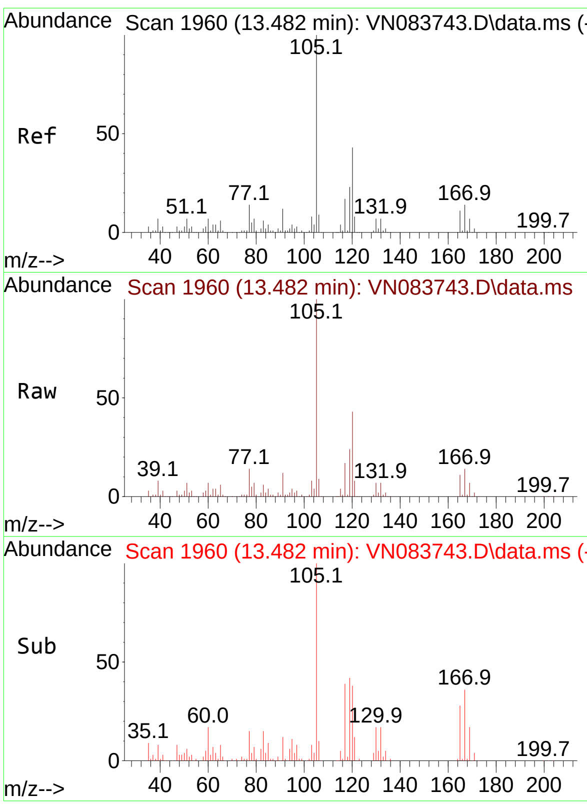


#83
tert-Butylbenzene
Concen: 52.809 ug/l
RT: 13.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:119 Resp: 38403

Ion	Ratio	Lower	Upper
119	100		
91	69.3	34.5	103.6
134	25.5	12.8	38.4

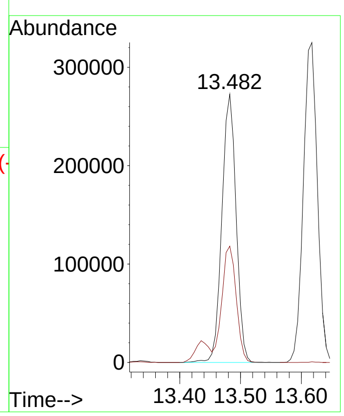




#84
1,2,4-Trimethylbenzene
Concen: 53.164 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:105 Resp: 443899

Ion	Ratio	Lower	Upper
105	100		
120	43.6	21.8	65.4



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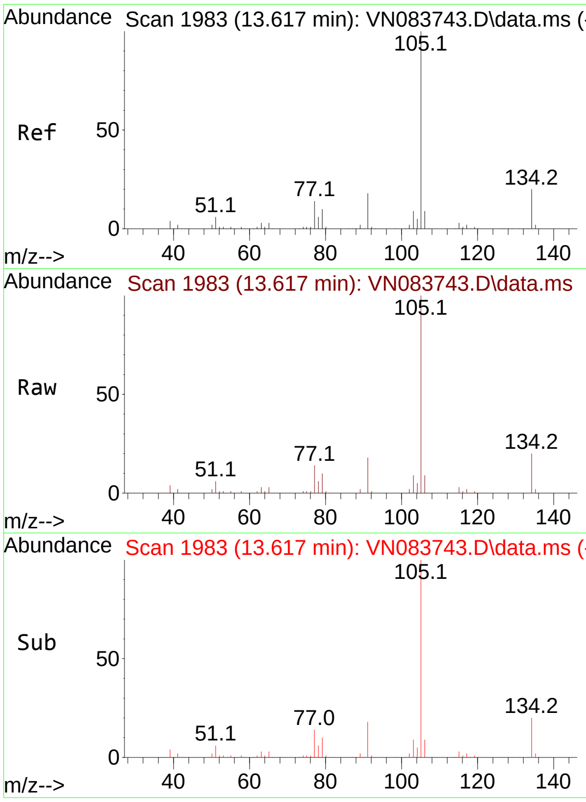


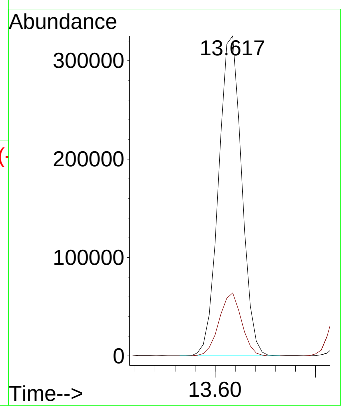

```
#85
sec-Butylbenzene
Concen:   53.962 ug/l
RT:  13.617 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083743.D
Acq: 10 Sep 2024  09:32

Tgt Ion:105 Resp:  52044
Ion  Ratio  Lower  Upper
105  100
134   19.2    9.7   29.1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



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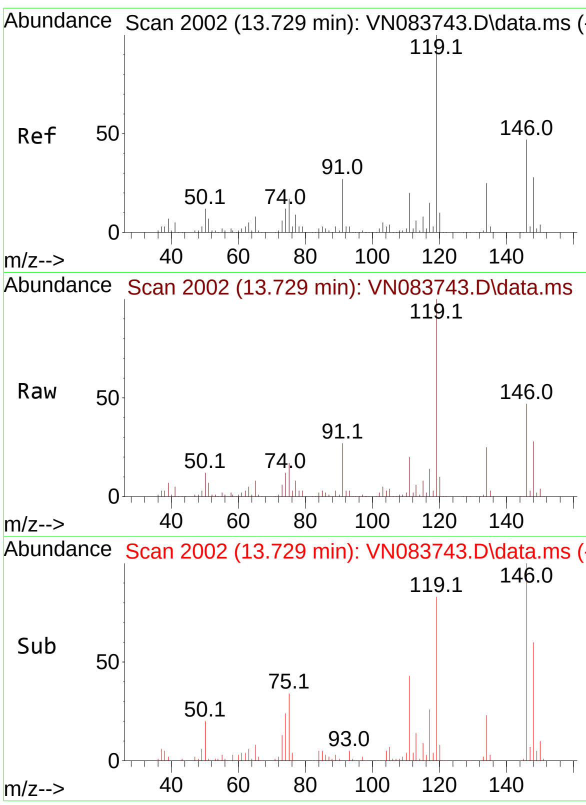
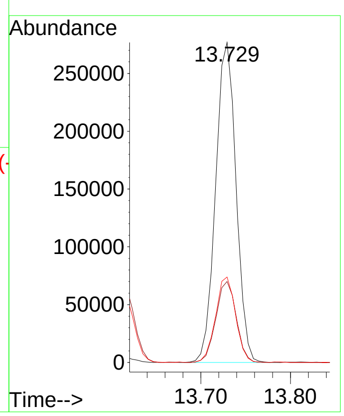



```
#86
p-Isopropyltoluene
Concen:   54.344 ug/l
RT:  13.729 min  Scan# 2002
Delta R.T.  0.000 min
Lab File:   VN083743.D
Acq: 10 Sep 2024  09:32

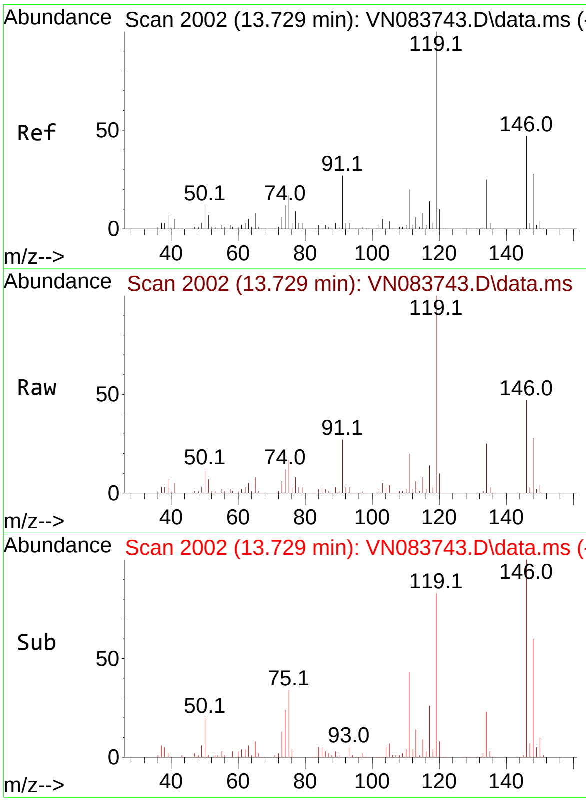
Tgt Ion:119 Resp:  439355
Ion  Ratio  Lower  Upper
119  100
134   25.2   12.8   38.3
 91   26.1   12.9   38.7
```



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

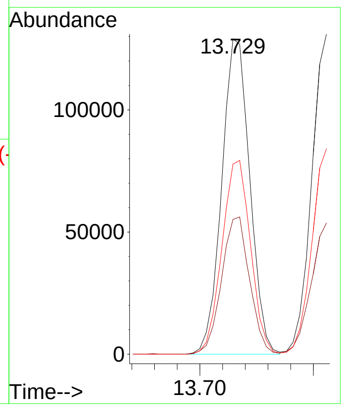
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

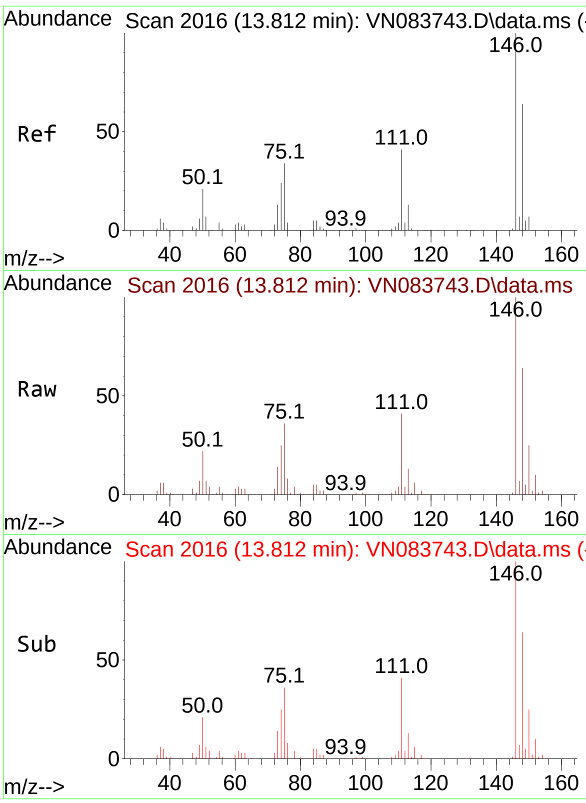


#87
1,3-Dichlorobenzene
Concen: 49.548 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:146 Resp: 22191

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.7	65.1
148	62.7	31.7	95.1

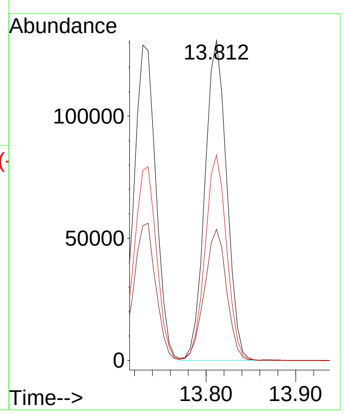




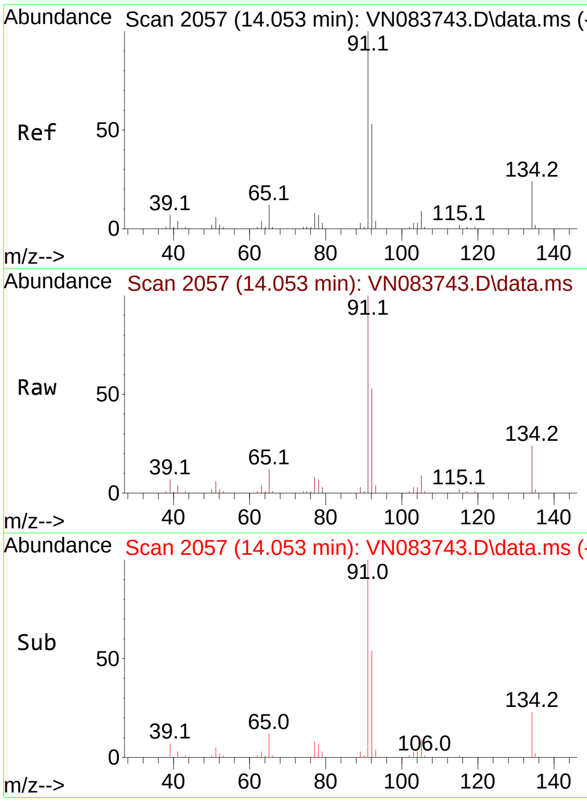
#88
1,4-Dichlorobenzene
Concen: 48.914 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:146 Resp: 221827

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.3	64.0
148	63.5	32.0	96.2



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



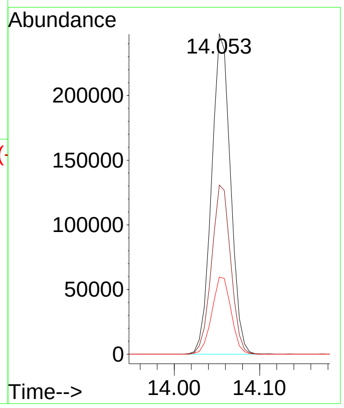
#89
n-Butylbenzene
Concen: 52.700 ug/l
RT: 14.053 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

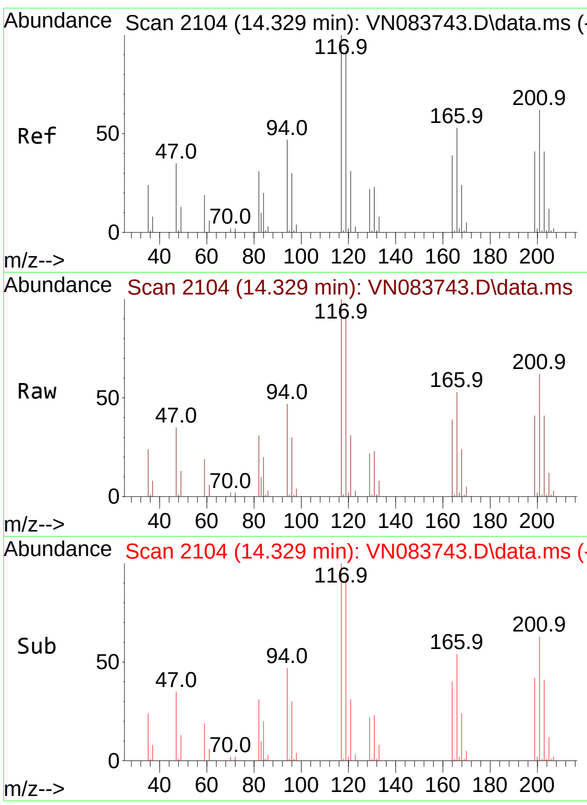
Tgt Ion: 91 Resp: 38253

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.7	80.1
134	24.3	12.2	36.4

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



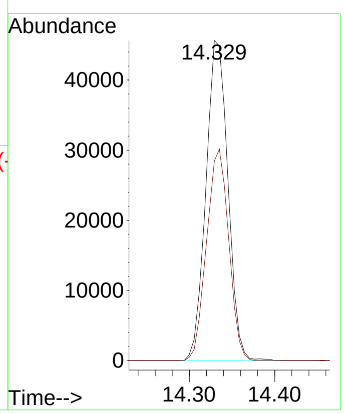
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

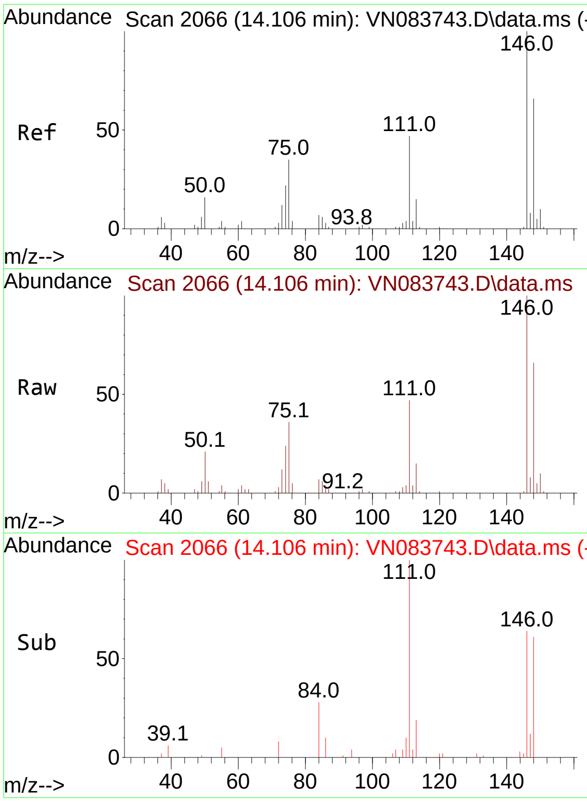


#90
Hexachloroethane
Concen: 50.348 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:117 Resp: 81825

Ion	Ratio	Lower	Upper
117	100		
201	66.4	32.8	98.3





#91
1,2-Dichlorobenzene
Concen: 49.777 ug/l
RT: 14.106 min   Scan# 2(
Delta R.T.   0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024   09:32

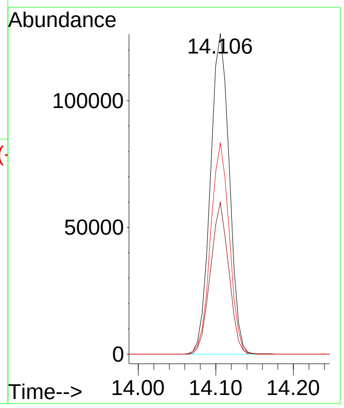
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

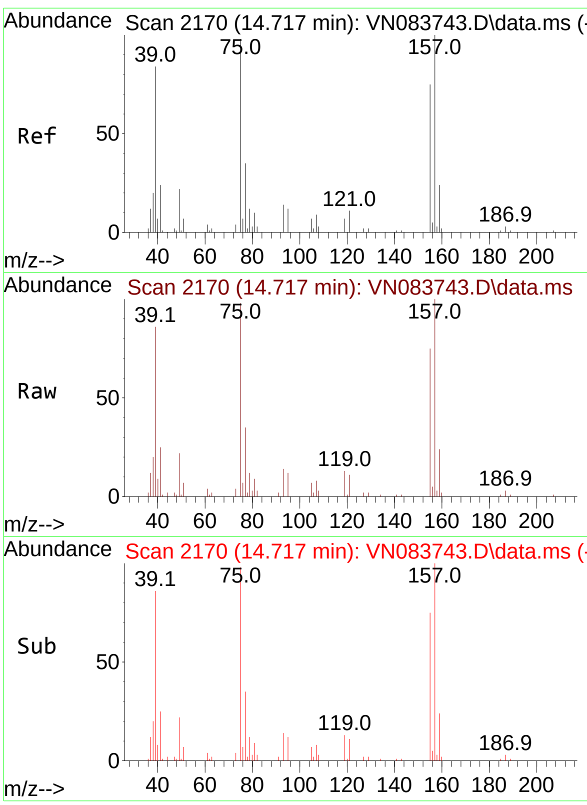
Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Tgt Ion:146 Resp: 21515(

Ion	Ratio	Lower	Upper
146	100		
111	45.6	22.8	68.3
148	65.0	32.1	96.5

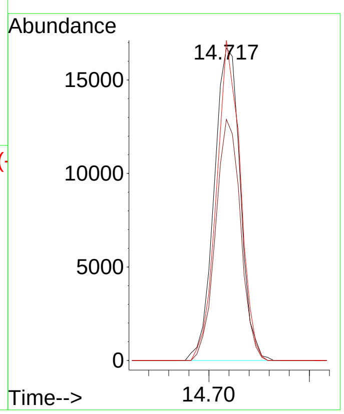


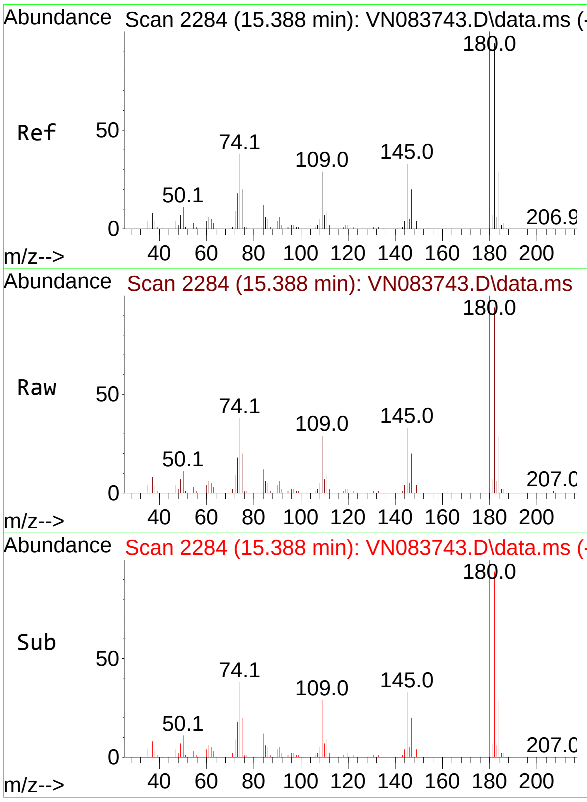


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.330 ug/l
RT: 14.717 min   Scan# 2170
Delta R.T.   0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024   09:32

Tgt Ion: 75 Resp: 30218

Ion	Ratio	Lower	Upper
75	100		
155	73.9	35.9	107.7
157	93.2	47.5	142.5

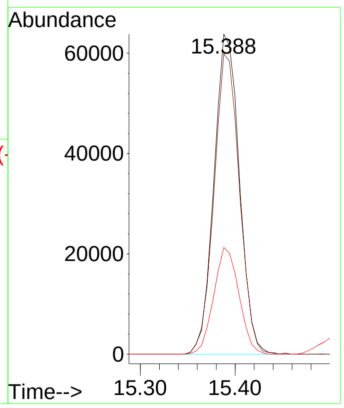




#93
1,2,4-Trichlorobenzene
Concen: 51.209 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:180 Resp: 11878

Ion	Ratio	Lower	Upper
180	100		
182	94.0	48.1	144.3
145	33.1	16.9	50.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

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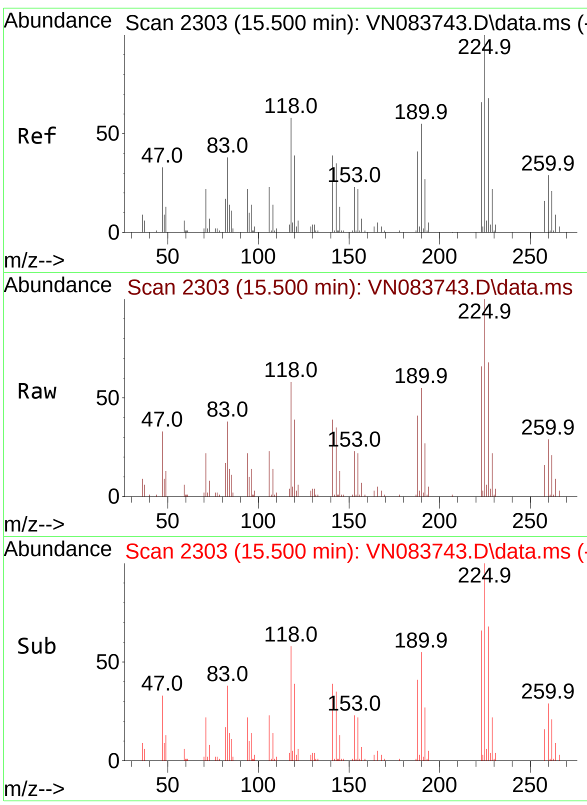
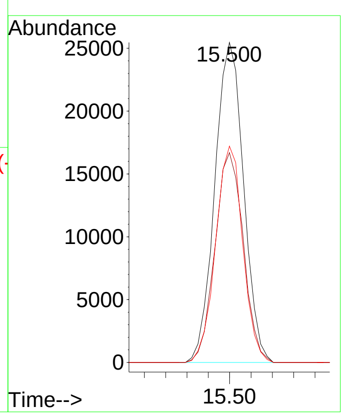


#94
Hexachlorobutadiene
Concen: 48.405 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083743.D
Acq: 10 Sep 2024 09:32

Tgt Ion:225 Resp: 47681

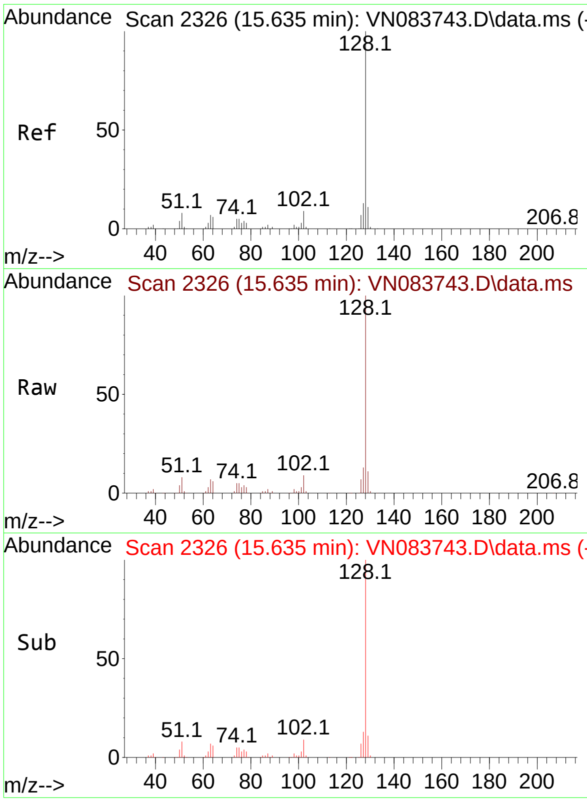
Ion	Ratio	Lower	Upper
225	100		
223	64.6	31.9	95.5
227	63.9	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

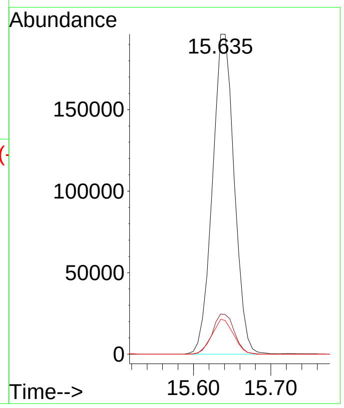
Manual Integrations APPROVED

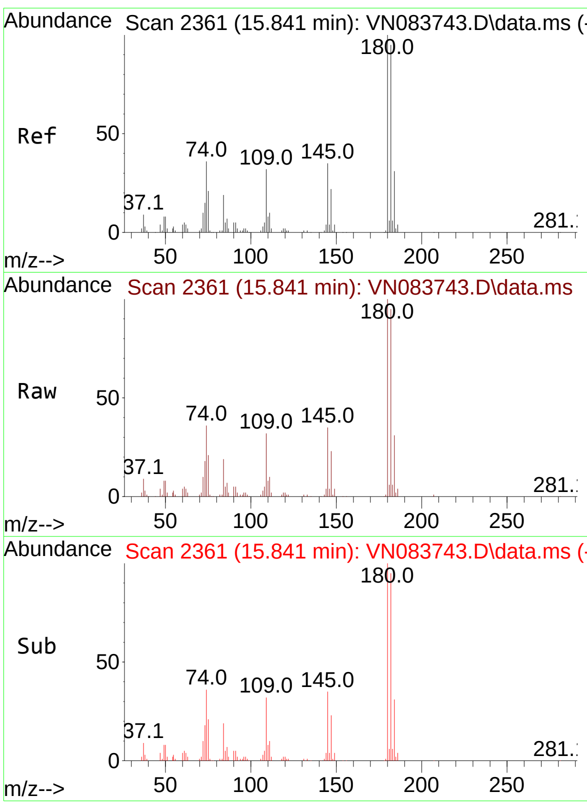
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024




```
#95
Naphthalene
Concen:   54.471 ug/l
RT:  15.635 min   Scan# 2
Delta R.T.   0.000 min
Lab File:    VN083743.D
Acq: 10 Sep 2024   09:32

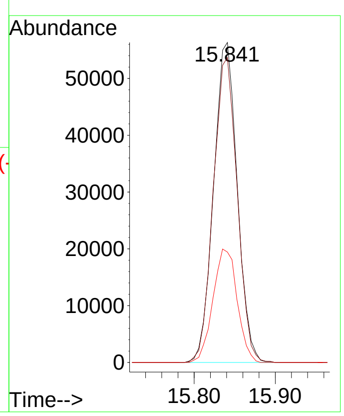
Tgt Ion:128 Resp:  38439
Ion   Ratio   Lower   Upper
128   100
127    12.7    10.2    15.2
129    10.8     8.7    13.1
```






```
#96
1,2,3-Trichlorobenzene
Concen:   51.447 ug/l
RT:  15.841 min   Scan# 2361
Delta R.T.   0.000 min
Lab File:    VN083743.D
Acq: 10 Sep 2024   09:32

Tgt Ion:180 Resp:  114047
Ion   Ratio   Lower   Upper
180   100
182    96.3    47.1   141.4
145    36.4    17.8    53.5
```



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083745.D
Acq On : 10 Sep 2024 10:20
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:55:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	159723	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	280181	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	236954	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	106718	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	27018	11.218	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	22.440%#		
35) Dibromofluoromethane	8.165	113	19074	10.634	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	21.260%#		
50) Toluene-d8	10.565	98	67177	10.833	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	21.660%#		
62) 4-Bromofluorobenzene	12.847	95	25692	10.043	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	20.080%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	17832	9.613	ug/l	99
3) Chloromethane	2.359	50	19771	8.921	ug/l	92
4) Vinyl Chloride	2.518	62	19072	9.380	ug/l	100
5) Bromomethane	2.906	94	10815	9.264	ug/l	93
6) Chloroethane	3.077	64	14313	10.147	ug/l	91
7) Trichlorofluoromethane	3.471	101	30532	8.847	ug/l	99
8) Diethyl Ether	3.947	74	11175	9.660	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	16686	9.122	ug/l	98
10) Methyl Iodide	4.571	142	20736	8.913	ug/l	92
11) Tert butyl alcohol	5.536	59	14238	44.148	ug/l #	85
12) 1,1-Dichloroethene	4.324	96	15206	8.802	ug/l	93
13) Acrolein	4.165	56	16181	50.851	ug/l	95
14) Allyl chloride	5.018	41	28937	9.400	ug/l	97
15) Acrylonitrile	5.718	53	38879	44.329	ug/l	99
16) Acetone	4.430	43	39908	41.335	ug/l	97
17) Carbon Disulfide	4.700	76	43363	8.973	ug/l	98
18) Methyl Acetate	5.030	43	19195	7.983	ug/l	96
19) Methyl tert-butyl Ether	5.794	73	56481	9.035	ug/l	97
20) Methylene Chloride	5.265	84	18112	9.167	ug/l	95
21) trans-1,2-Dichloroethene	5.783	96	16680	9.009	ug/l	96
22) Diisopropyl ether	6.677	45	57127	9.015	ug/l	95
23) Vinyl Acetate	6.600	43	200248	43.152	ug/l	99
24) 1,1-Dichloroethane	6.565	63	32397	8.874	ug/l	98
25) 2-Butanone	7.482	43	53716	42.331	ug/l	96
26) 2,2-Dichloropropane	7.482	77	29484	8.770	ug/l	97
27) cis-1,2-Dichloroethene	7.482	96	19822	9.019	ug/l	97
28) Bromochloromethane	7.818	49	15146	9.852	ug/l	97
29) Tetrahydrofuran	7.841	42	33637	44.830	ug/l	97
30) Chloroform	7.965	83	34532	8.910	ug/l	95
31) Cyclohexane	8.253	56	32476	9.330	ug/l	95
32) 1,1,1-Trichloroethane	8.159	97	31603	8.868	ug/l	96
36) 1,1-Dichloropropene	8.371	75	23317	8.637	ug/l	100
37) Ethyl Acetate	7.559	43	22049	8.998	ug/l #	86
38) Carbon Tetrachloride	8.359	117	26621	8.692	ug/l	98
39) Methylcyclohexane	9.594	83	26714	8.693	ug/l	97
40) Benzene	8.606	78	71965	8.856	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083745.D
Acq On : 10 Sep 2024 10:20
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:55:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.782	41	11838	8.168 ug/l	94
42) 1,2-Dichloroethane	8.671	62	27764	9.144 ug/l	98
43) Isopropyl Acetate	8.688	43	38533	8.677 ug/l	95
44) Trichloroethene	9.347	130	16783	8.919 ug/l	93
45) 1,2-Dichloropropane	9.618	63	16998	8.655 ug/l	94
46) Dibromomethane	9.706	93	12363	8.987 ug/l	99
47) Bromodichloromethane	9.888	83	25823	8.674 ug/l	97
48) Methyl methacrylate	9.682	41	18399	8.733 ug/l	98
49) 1,4-Dioxane	9.694	88	6088	175.652 ug/l #	99
51) 4-Methyl-2-Pentanone	10.441	43	106177	43.923 ug/l	96
52) Toluene	10.629	92	43293	8.710 ug/l	94
53) t-1,3-Dichloropropene	10.835	75	26156	8.667 ug/l	93
54) cis-1,3-Dichloropropene	10.306	75	28646	9.037 ug/l	93
55) 1,1,2-Trichloroethane	11.018	97	16191	8.725 ug/l	94
56) Ethyl methacrylate	10.870	69	24616	8.622 ug/l	94
57) 1,3-Dichloropropane	11.159	76	28273	8.865 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	49705	48.319 ug/l	100
59) 2-Hexanone	11.194	43	77251	43.201 ug/l	96
60) Dibromochloromethane	11.359	129	18769	9.038 ug/l	97
61) 1,2-Dibromoethane	11.470	107	15958	8.623 ug/l	99
64) Tetrachloroethene	11.100	164	14312	9.082 ug/l	97
65) Chlorobenzene	11.888	112	46098	8.753 ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.959	131	16565	9.073 ug/l	99
67) Ethyl Benzene	11.965	91	82814	8.852 ug/l	100
68) m/p-Xylenes	12.070	106	61777	17.786 ug/l	100
69) o-Xylene	12.400	106	31015	9.224 ug/l	95
70) Styrene	12.412	104	47767	8.656 ug/l	96
71) Bromoform	12.576	173	10705	8.701 ug/l #	99
73) Isopropylbenzene	12.694	105	76751	9.296 ug/l	99
74) N-amyl acetate	12.494	43	31640	8.982 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	22718	9.365 ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	19154m	8.895 ug/l	
77) Bromobenzene	12.982	156	18859	9.489 ug/l	95
78) n-propylbenzene	13.035	91	86960	9.052 ug/l	99
79) 2-Chlorotoluene	13.123	91	57981	9.464 ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	64636	9.286 ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	6799	8.269 ug/l	85
82) 4-Chlorotoluene	13.223	91	56980	9.268 ug/l	99
83) tert-Butylbenzene	13.435	119	56069	9.207 ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	65280	9.336 ug/l	99
85) sec-Butylbenzene	13.617	105	73381	9.085 ug/l	99
86) p-Isopropyltoluene	13.729	119	60366	8.916 ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	33957	9.053 ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	35292	9.293 ug/l	97
89) n-Butylbenzene	14.053	91	54517	8.968 ug/l	99
90) Hexachloroethane	14.329	117	12655	9.298 ug/l	96
91) 1,2-Dichlorobenzene	14.106	146	32924	9.096 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	4562	9.434 ug/l	95
93) 1,2,4-Trichlorobenzene	15.394	180	18092	9.314 ug/l	98
94) Hexachlorobutadiene	15.500	225	7717	9.355 ug/l	96
95) Naphthalene	15.641	128	55361	9.368 ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	17348	9.345 ug/l	99

ICAL Form

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083745.D
Acq On    : 10 Sep 2024  10:20
Operator  : JC\MD
Sample    : VSTDICC010
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Sep 11 01:55:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title  : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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

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

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083745.D
Acq On : 10 Sep 2024 10:20
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 01:55:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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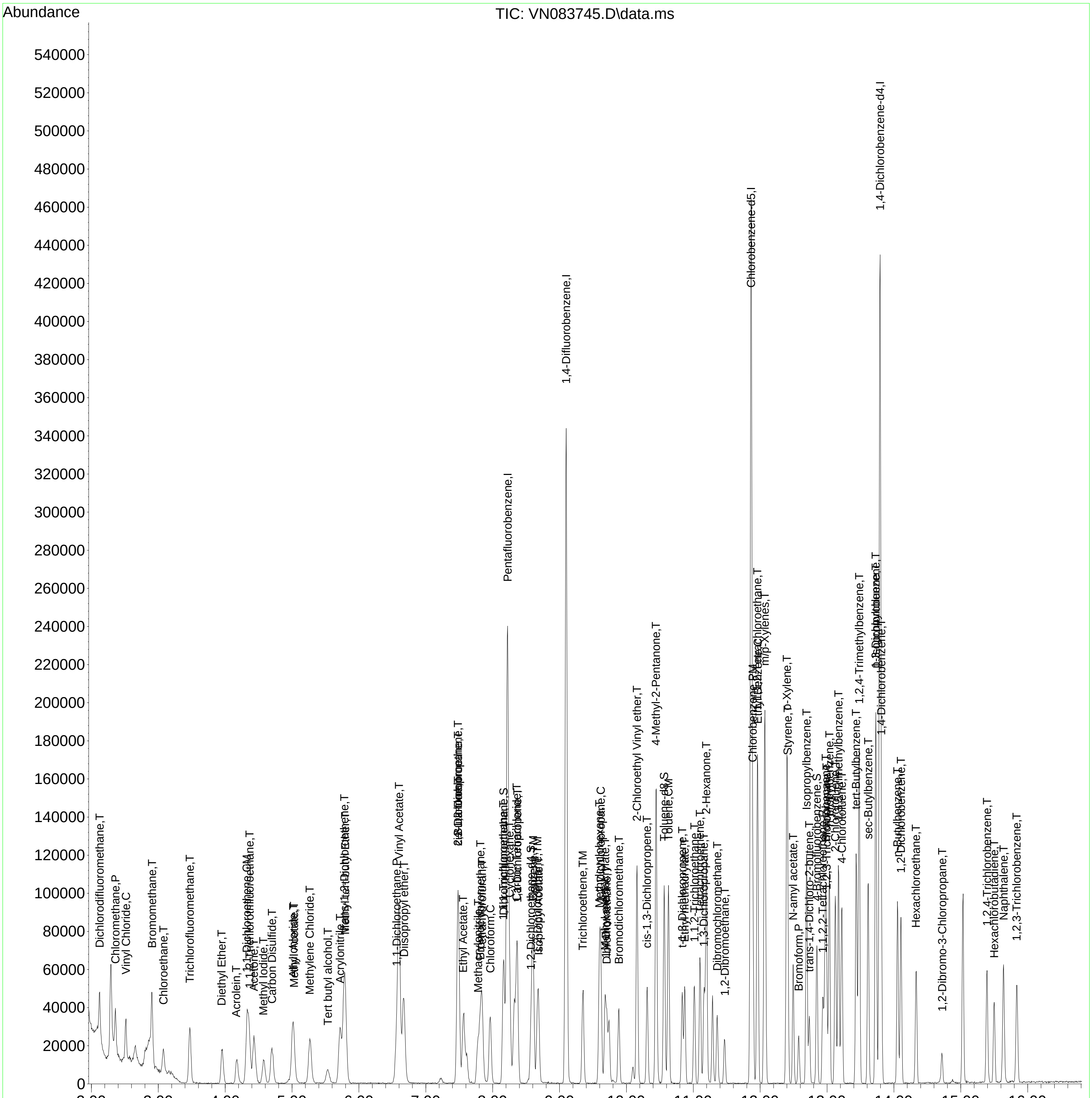

Instrument : MSVOA_N
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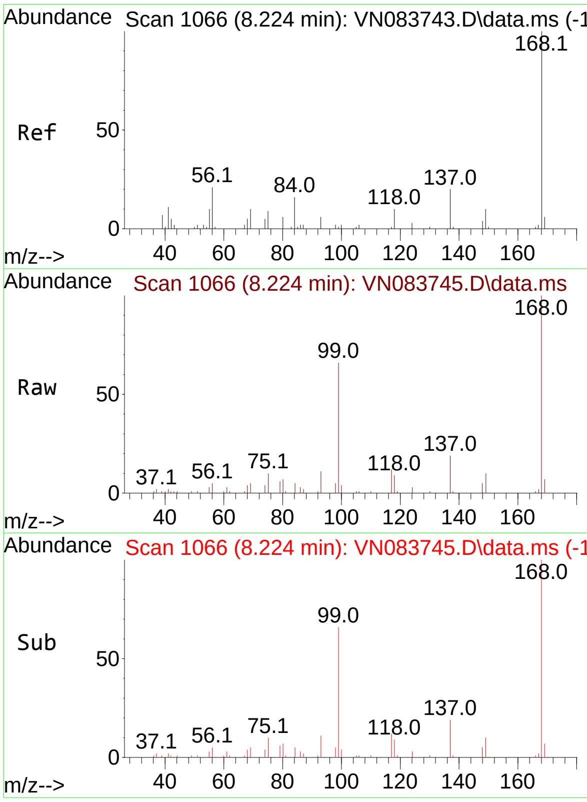
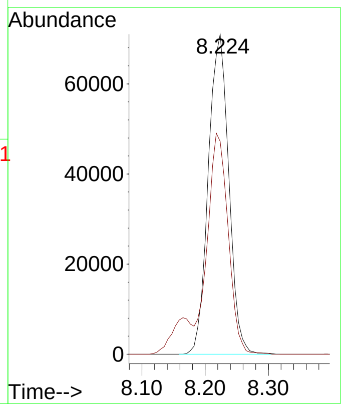
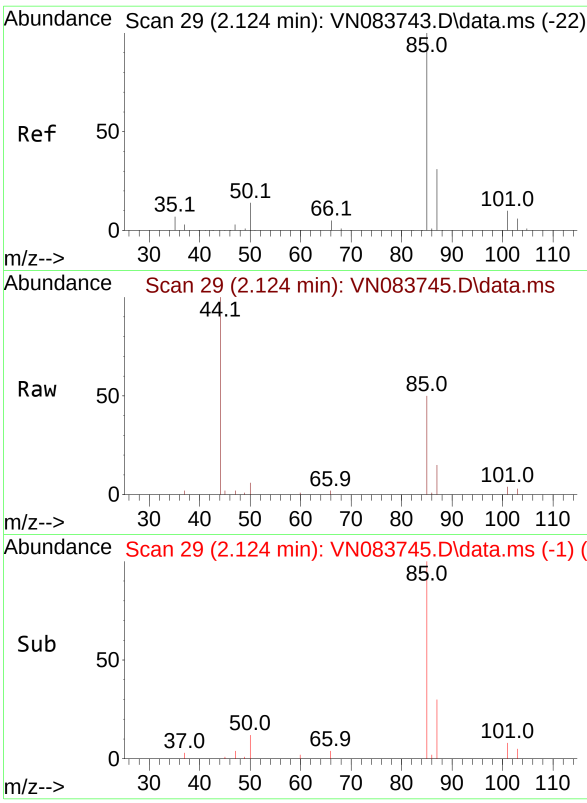



```
#1
Pentafluorobenzene
Concen:   50.000 ug/l
RT:   8.224 min  Scan# 10
Delta R.T.  -0.000 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

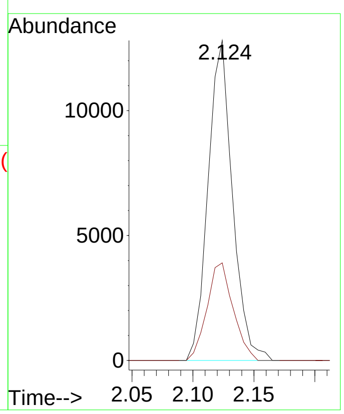
Tgt Ion:168 Resp:  159721
Ion  Ratio  Lower  Upper
168  100
 99   66.5   54.2   81.2
```

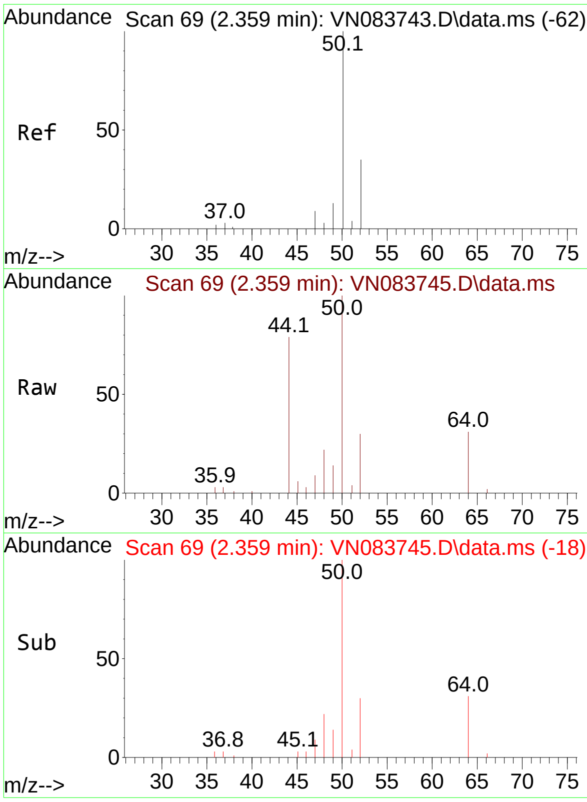





```
#2
Dichlorodifluoromethane
Concen:    9.613 ug/l
RT:   2.124 min  Scan# 29
Delta R.T.  -0.000 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

Tgt Ion: 85 Resp:   17832
Ion  Ratio  Lower  Upper
 85  100
 87   30.5   15.7   47.0
```





#3
Chloromethane
Concen: 8.921 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 50 Resp: 1977

Ion	Ratio	Lower	Upper
50	100		
52	29.6	27.2	40.8

Instrument :
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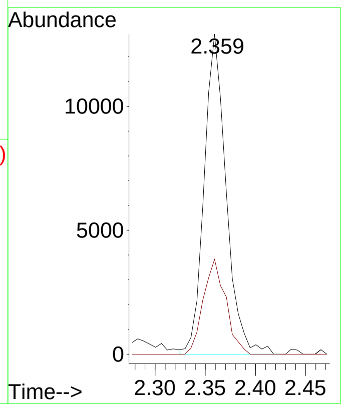
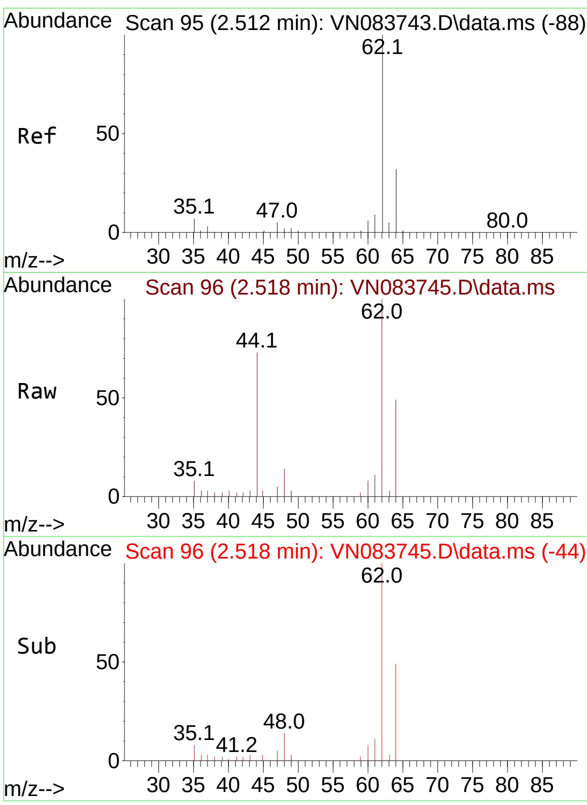
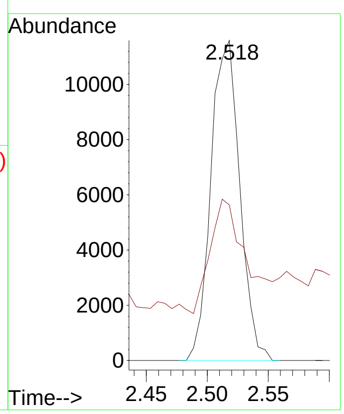




#4
Vinyl Chloride
Concen: 9.380 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 62 Resp: 19072

Ion	Ratio	Lower	Upper
62	100		
64	31.0	24.7	37.1



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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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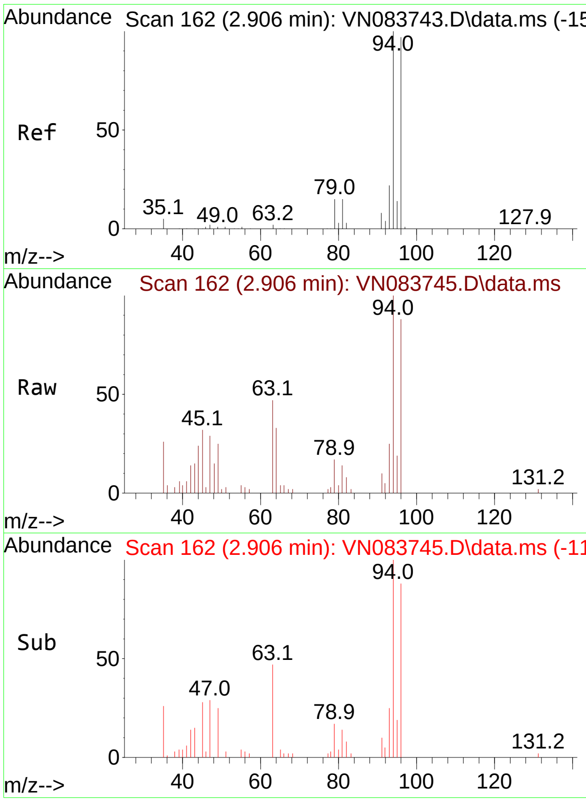
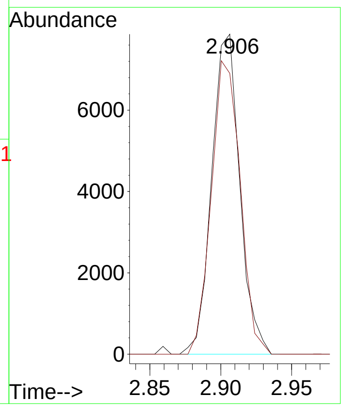
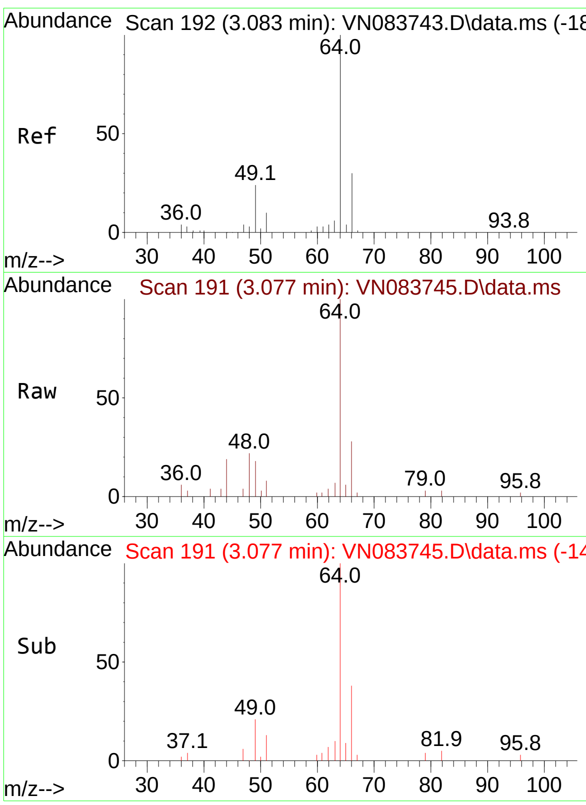


#5
Bromomethane
Concen: 9.264 ug/l
RT: 2.906 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 94 Resp: 1081

Ion	Ratio	Lower	Upper
94	100		
96	87.7	76.0	114.0

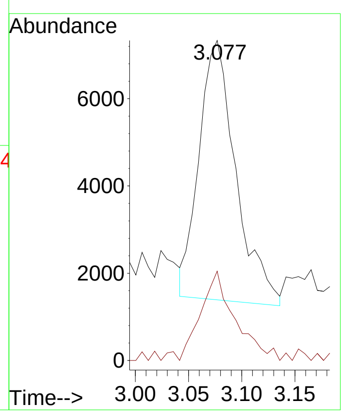


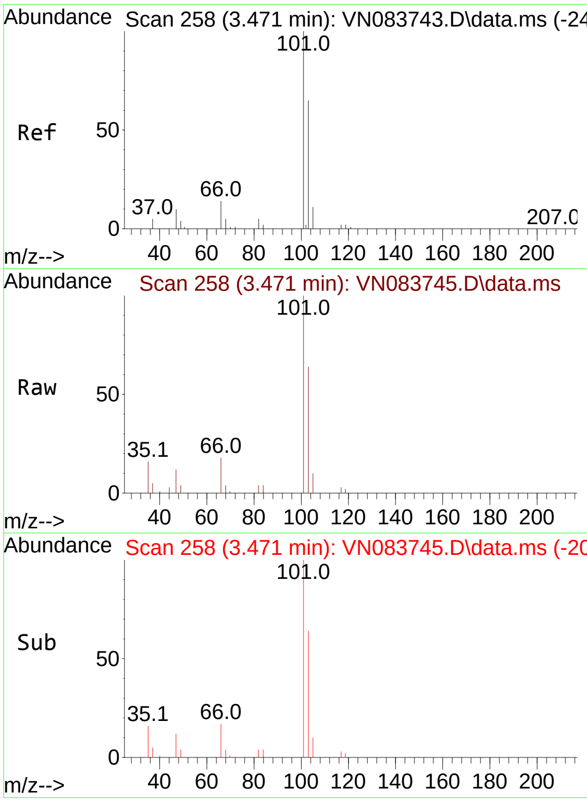


#6
Chloroethane
Concen: 10.147 ug/l
RT: 3.077 min Scan# 191
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 64 Resp: 14313

Ion	Ratio	Lower	Upper
64	100		
66	34.9	23.9	35.9






```
#7
Trichlorofluoromethane
Concen:    8.847 ug/l
RT:   3.471 min  Scan# 2
Delta R.T.  -0.000 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

Tgt Ion:101 Resp:   3053
Ion  Ratio  Lower  Upper
101  100
103   63.7   51.4   77.0
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
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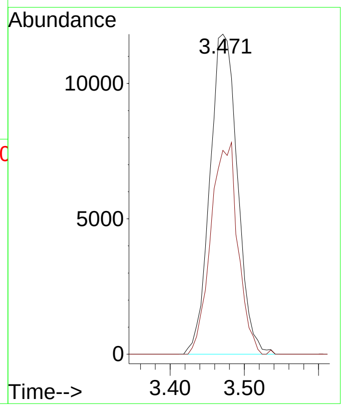
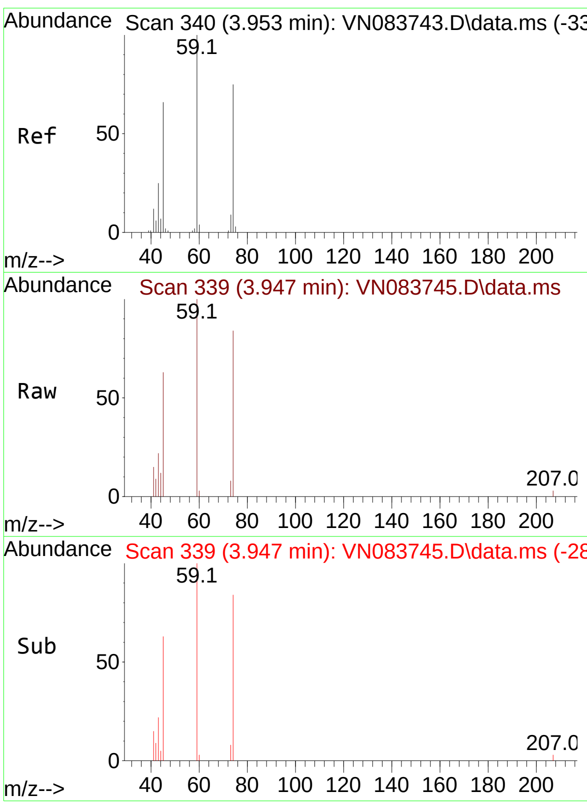
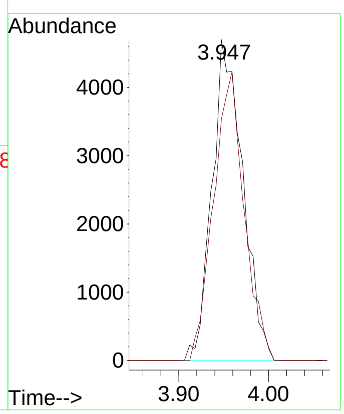





```
#8
Diethyl Ether
Concen:    9.660 ug/l
RT:   3.947 min  Scan# 339
Delta R.T.  -0.006 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

Tgt Ion: 74 Resp:   11175
Ion  Ratio  Lower  Upper
 74  100
 45   89.6   46.7  140.1
```



Instrument :
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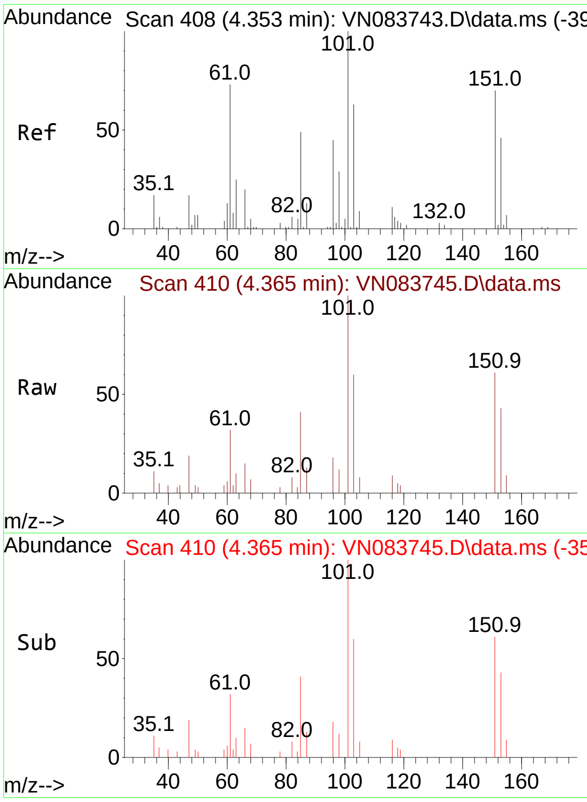
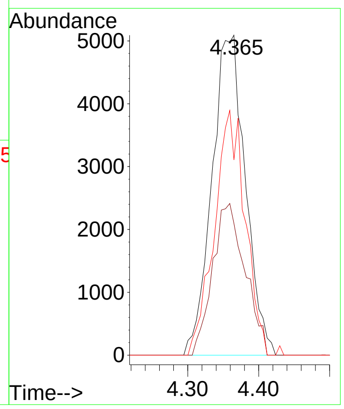
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

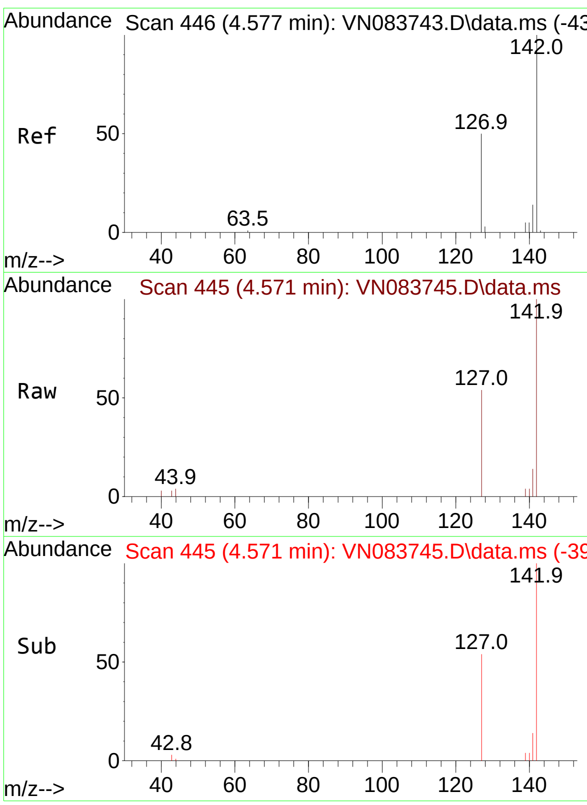


#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.122 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:101 Resp: 1668

Ion	Ratio	Lower	Upper
101	100		
85	46.2	36.2	54.4
151	70.7	57.7	86.5

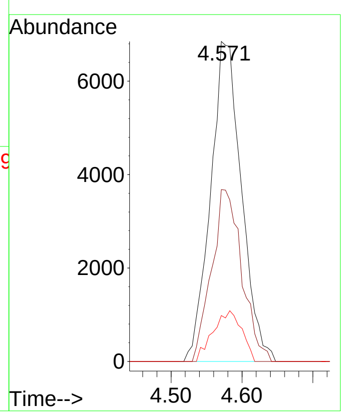


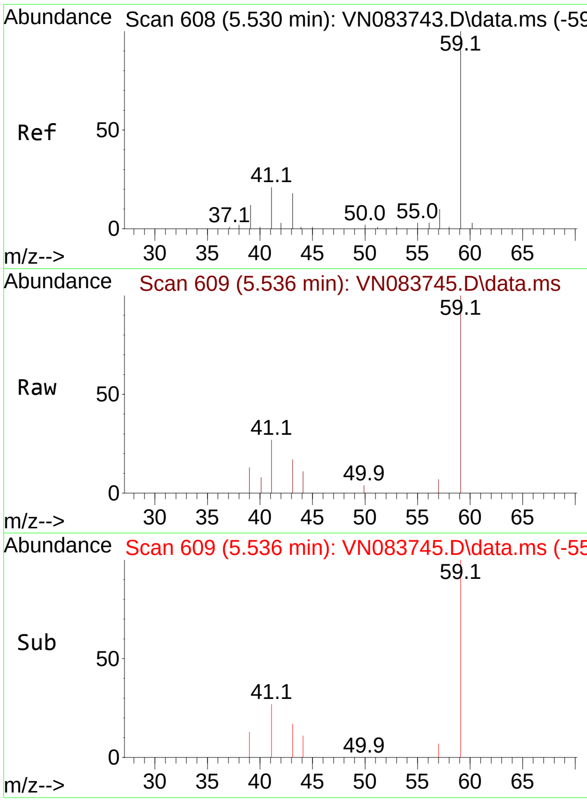


#10
Methyl Iodide
Concen: 8.913 ug/l
RT: 4.571 min Scan# 445
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:142 Resp: 20736

Ion	Ratio	Lower	Upper
142	100		
127	53.7	37.5	56.3
141	14.4	11.0	16.4





#11
Tert butyl alcohol
Concen: 44.148 ug/l
RT: 5.536 min Scan# 60
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 59 Resp: 14238

Ion	Ratio	Lower	Upper
59	100		
57	5.1	8.7	13.1#

Instrument :
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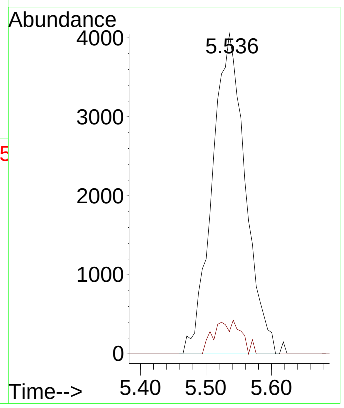
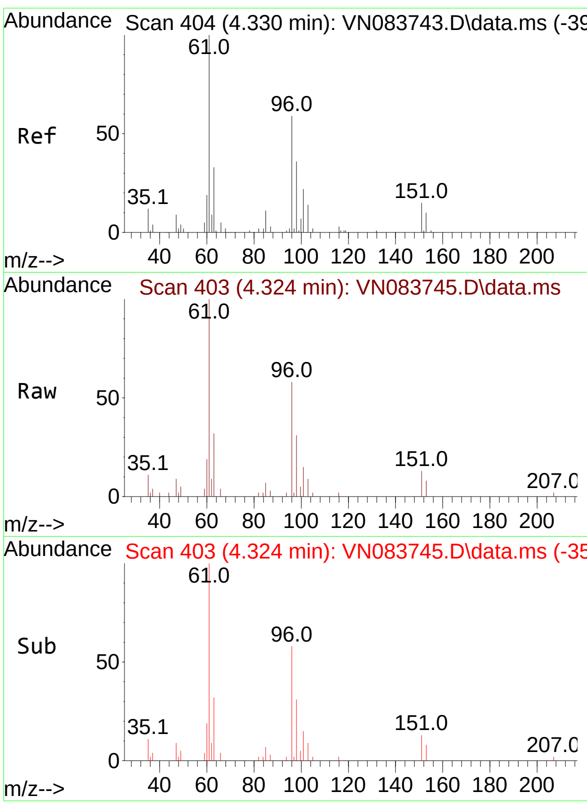
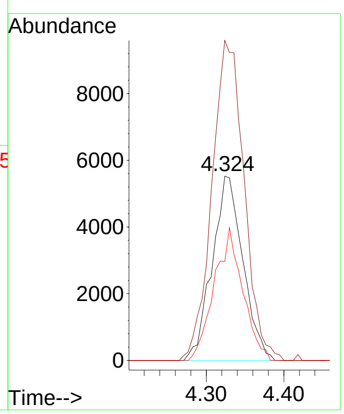


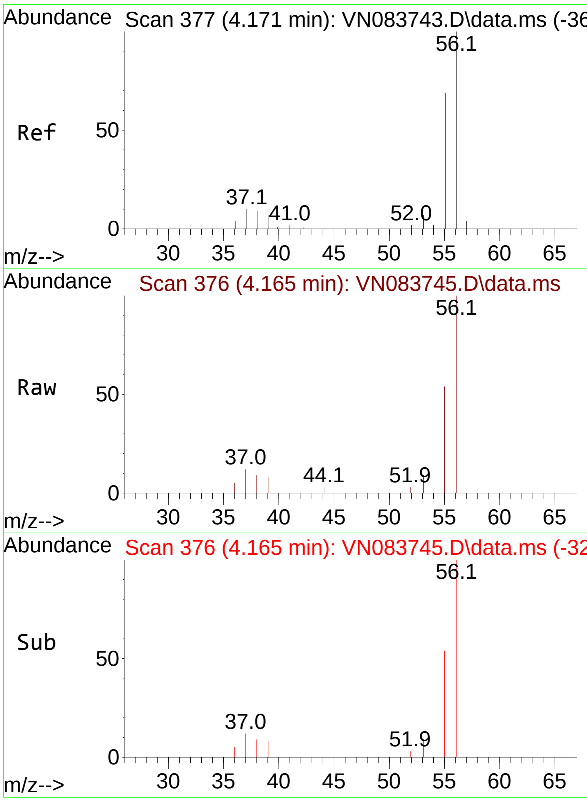


#12
1,1-Dichloroethene
Concen: 8.802 ug/l
RT: 4.324 min Scan# 403
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 96 Resp: 15206

Ion	Ratio	Lower	Upper
96	100		
61	173.5	143.4	215.0
98	53.7	52.7	79.1

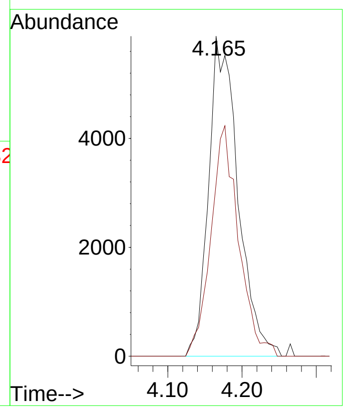




#13
Acrolein
Concen: 50.851 ug/l
RT: 4.165 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 56 Resp: 1618

Ion	Ratio	Lower	Upper
56	100		
55	68.2	58.2	87.2



Instrument :
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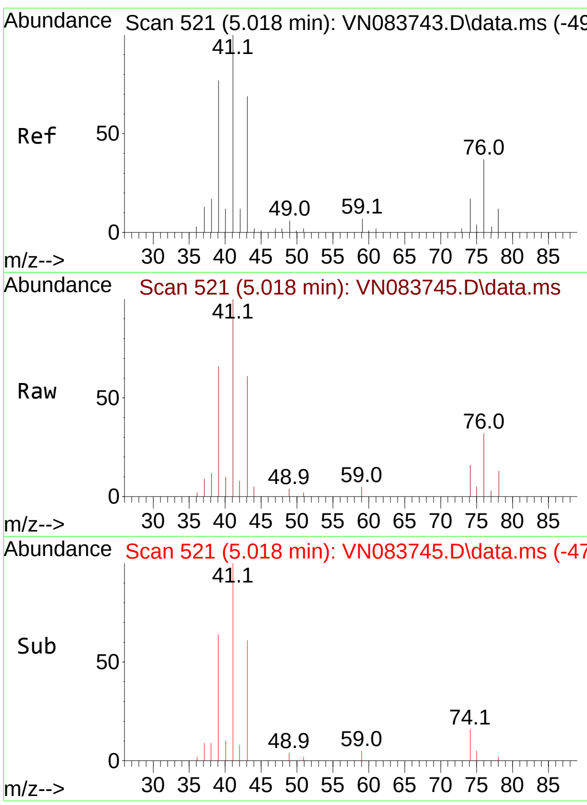
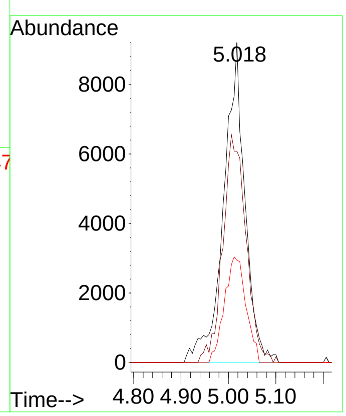


#14
Allyl chloride
Concen: 9.400 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 41 Resp: 28937

Ion	Ratio	Lower	Upper
41	100		
39	76.9	59.3	88.9
76	33.2	27.7	41.5



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument : MSVOA_N
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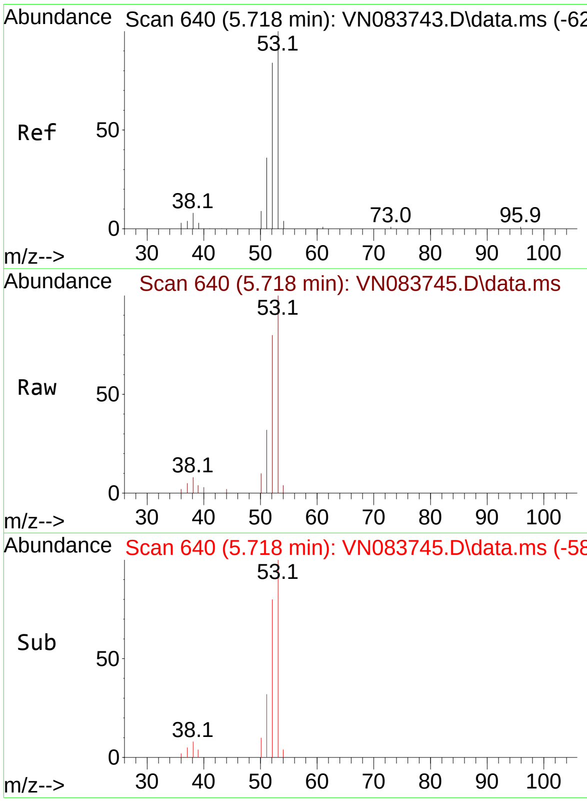
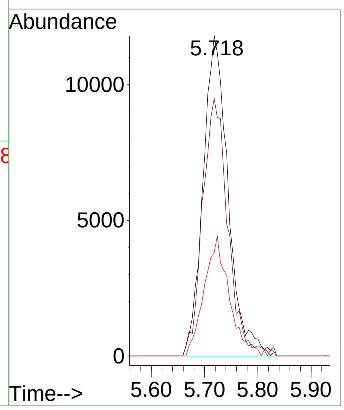
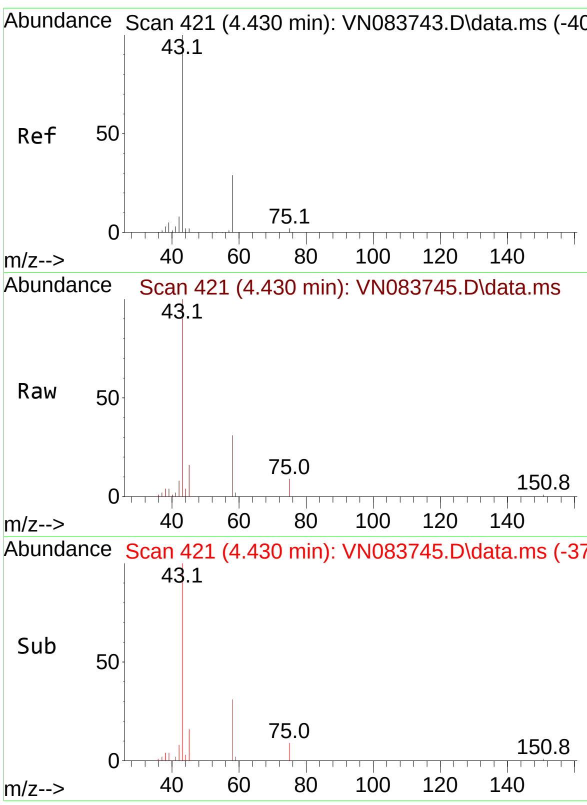



```
#15
Acrylonitrile
Concen:   44.329 ug/l
RT:   5.718 min  Scan# 64
Delta R.T.   -0.000 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

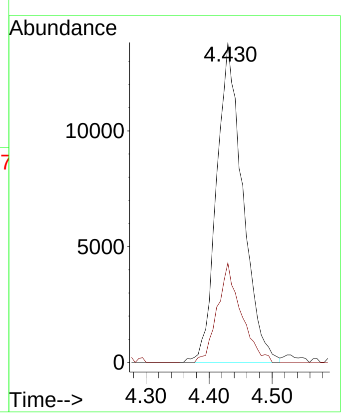
Tgt Ion: 53 Resp:   38879
Ion  Ratio  Lower  Upper
 53  100
 52   80.7   66.1   99.1
 51   37.1   29.6   44.4
```






```
#16
Acetone
Concen:   41.335 ug/l
RT:   4.430 min  Scan# 421
Delta R.T.   -0.000 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

Tgt Ion: 43 Resp:   39908
Ion  Ratio  Lower  Upper
 43  100
 58   31.1   23.7   35.5
```



ICAL Form

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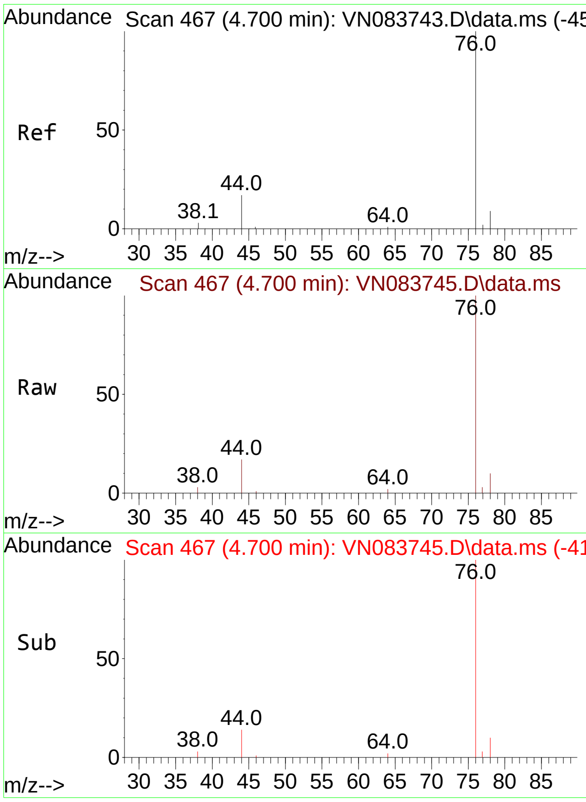
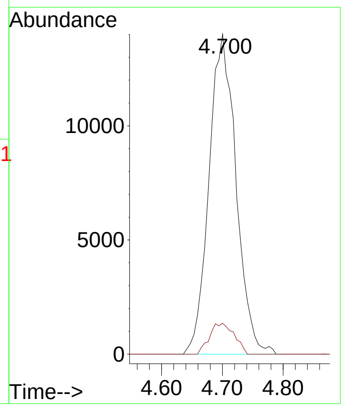
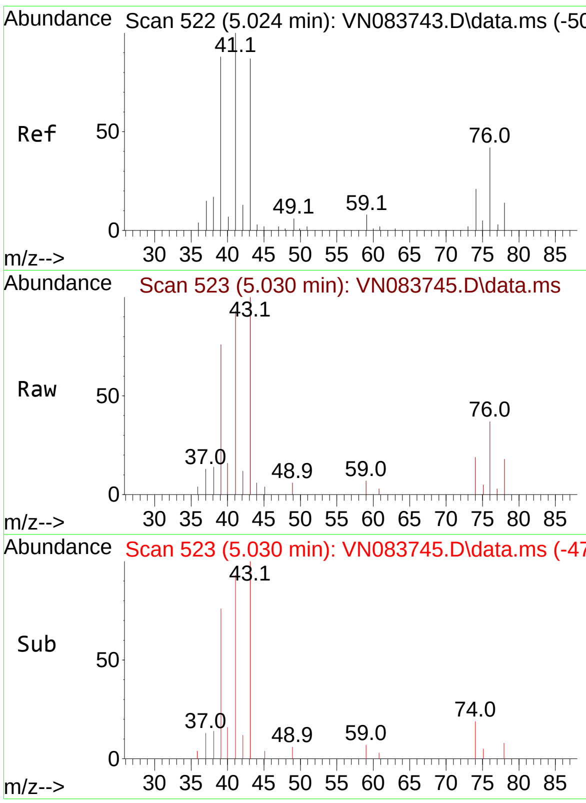
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#17
Carbon Disulfide
Concen:     8.973 ug/l
RT:    4.700 min   Scan# 4
Delta R.T.   -0.000 min
Lab File:    VN083745.D
Acq: 10 Sep 2024  10:20

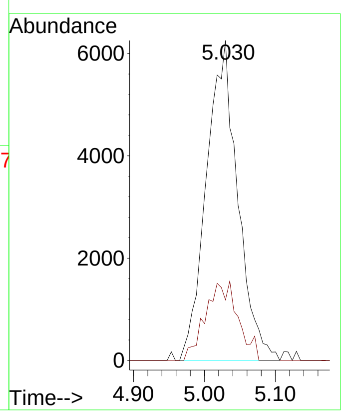
Tgt Ion: 76 Resp:    4336
Ion   Ratio   Lower   Upper
 76   100
 78     9.7     7.1    10.7
```

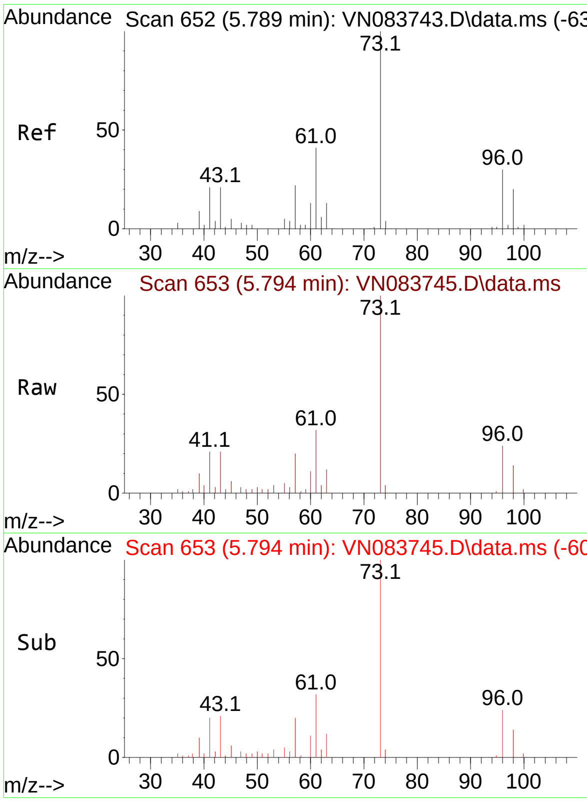





```
#18
Methyl Acetate
Concen:     7.983 ug/l
RT:    5.030 min   Scan# 523
Delta R.T.   0.006 min
Lab File:    VN083745.D
Acq: 10 Sep 2024  10:20

Tgt Ion: 43 Resp:    19195
Ion   Ratio   Lower   Upper
 43   100
 74    25.6    19.0    28.4
```





#19
Methyl tert-butyl Ether
Concen: 9.035 ug/l
RT: 5.794 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 73 Resp: 5648

Ion	Ratio	Lower	Upper
73	100		
57	19.9	17.0	25.6

Instrument :
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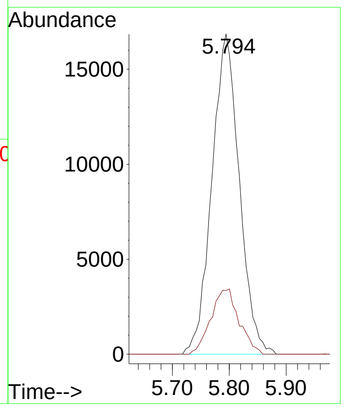
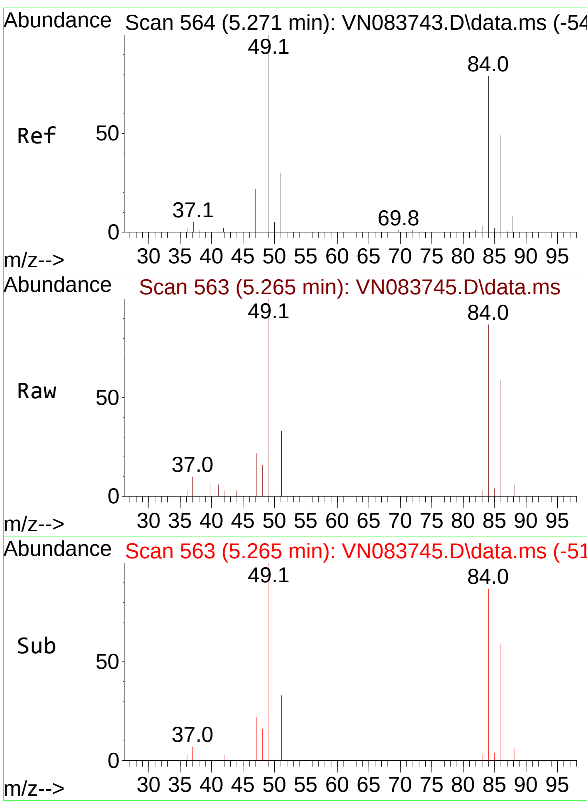
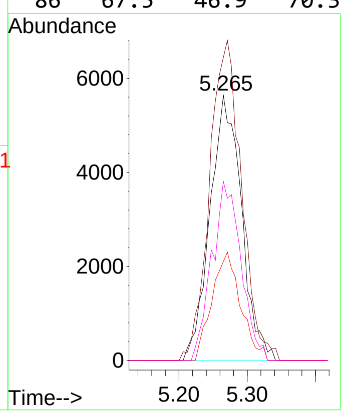




#20
Methylene Chloride
Concen: 9.167 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 84 Resp: 18112

Ion	Ratio	Lower	Upper
84	100		
49	114.3	93.4	140.0
51	37.3	29.2	43.8
86	67.5	46.9	70.3



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
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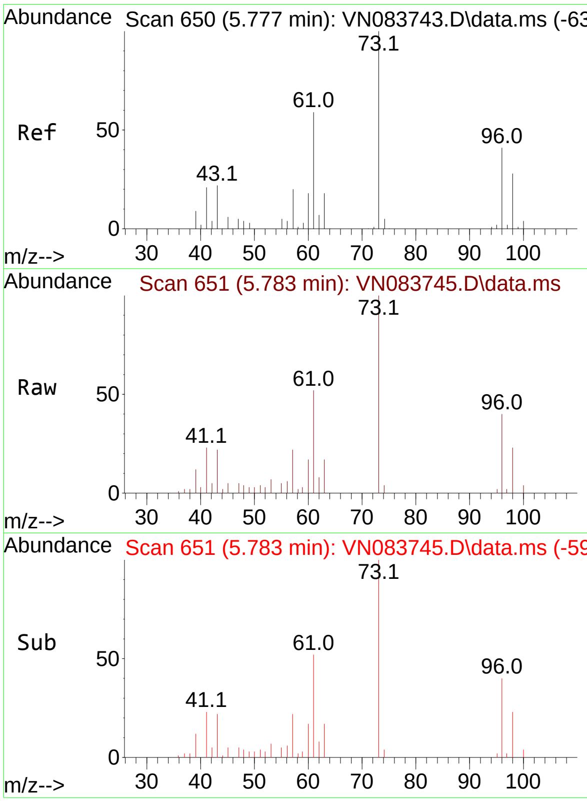
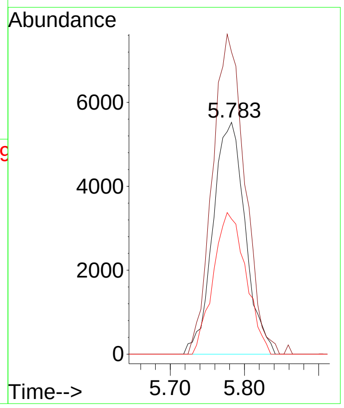
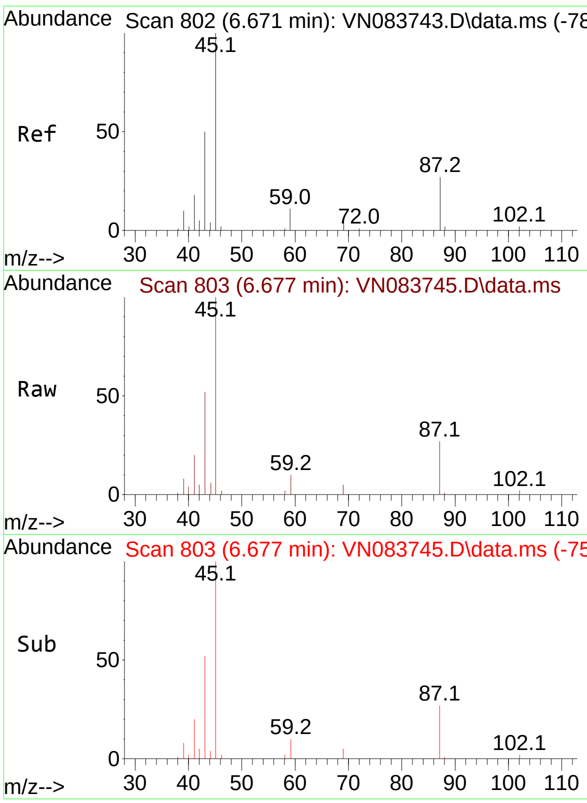


#21
trans-1,2-Dichloroethene
Concen: 9.009 ug/l
RT: 5.783 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 96 Resp: 16680

Ion	Ratio	Lower	Upper
96	100		
61	130.2	106.0	159.0
98	58.3	52.2	78.2

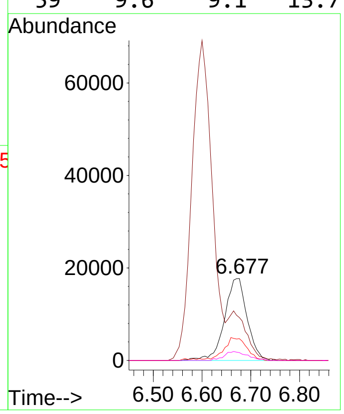


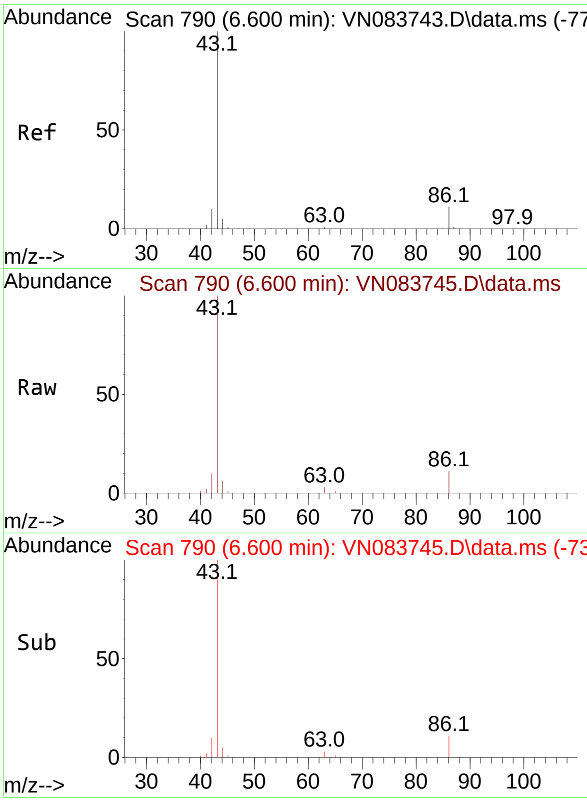


#22
Diisopropyl ether
Concen: 9.015 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 45 Resp: 57127

Ion	Ratio	Lower	Upper
45	100		
43	50.5	43.4	65.0
87	26.6	22.6	33.8
59	9.6	9.1	13.7





#23
Vinyl Acetate
Concen: 43.152 ug/l
RT: 6.600 min   Scan# 7
Delta R.T.   -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024   10:20

Tgt Ion: 43 Resp: 20024

Ion	Ratio	Lower	Upper
43	100		
86	11.5	8.7	13.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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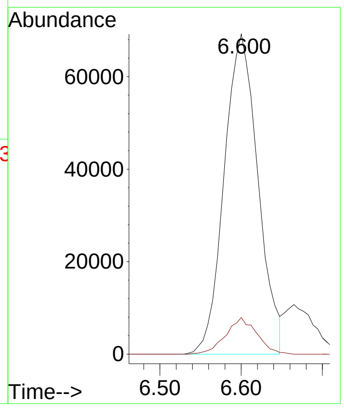
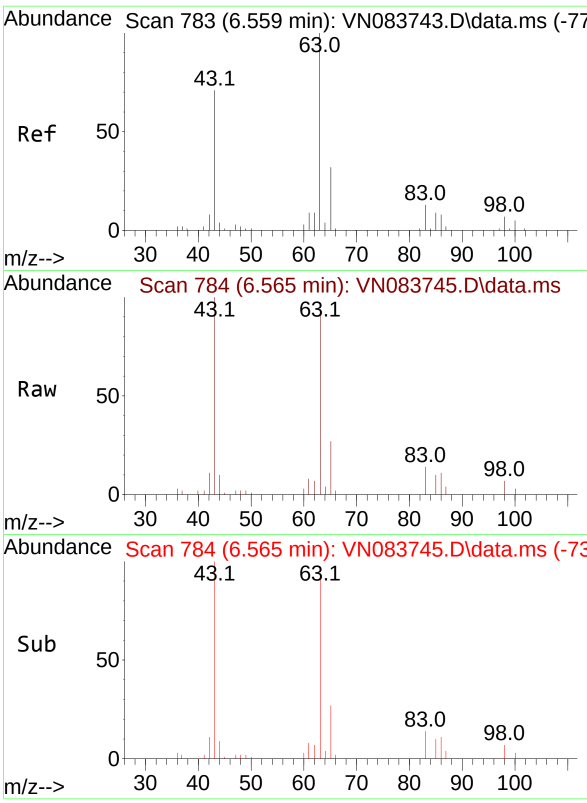
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

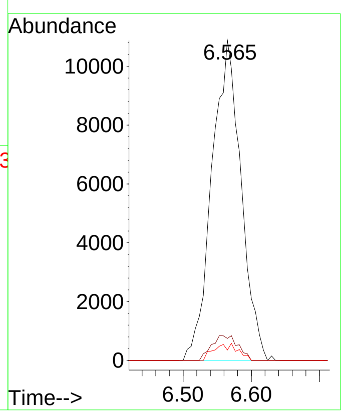




#24
1,1-Dichloroethane
Concen: 8.874 ug/l
RT: 6.565 min   Scan# 784
Delta R.T.   0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024   10:20

Tgt Ion: 63 Resp: 32397

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.4
100	3.2	2.5	7.5



Instrument :
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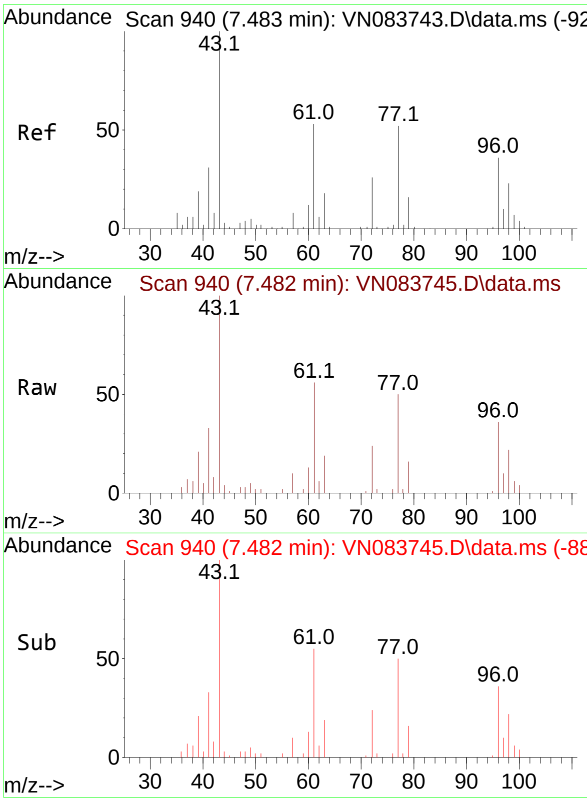
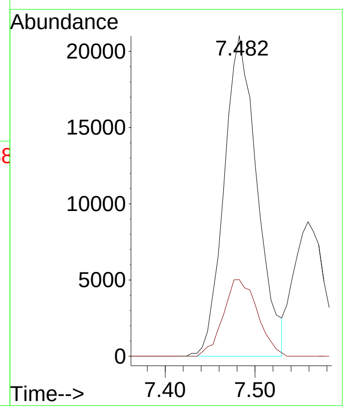
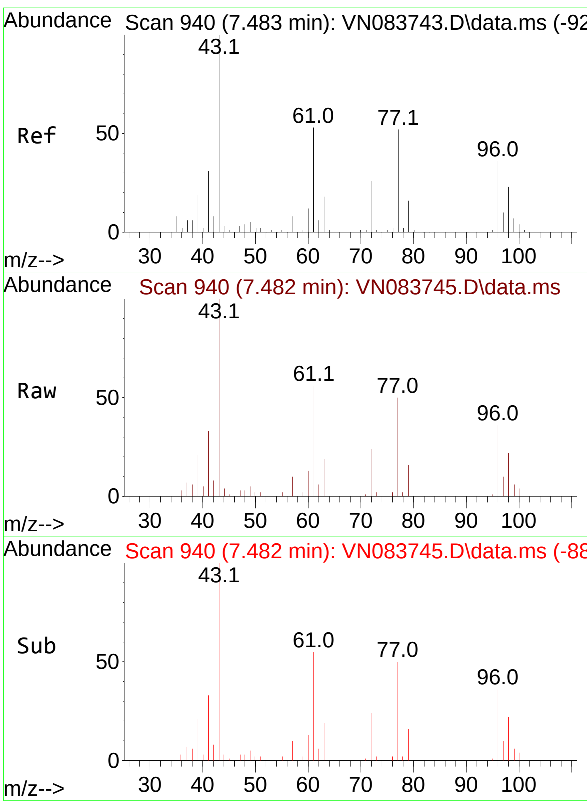



```
#25
2-Butanone
Concen:   42.331 ug/l
RT:   7.482 min   Scan# 94
Delta R.T.   -0.000 min
Lab File:    VN083745.D
Acq: 10 Sep 2024   10:20

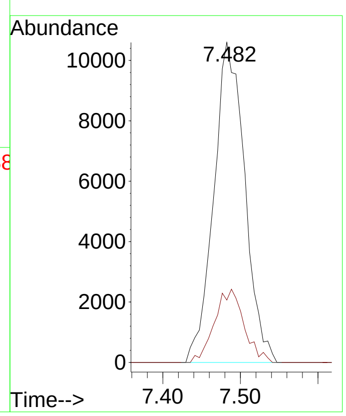
Tgt Ion: 43 Resp:   5371
Ion   Ratio   Lower   Upper
 43   100
 72    23.9    20.8    31.2
```






```
#26
2,2-Dichloropropane
Concen:    8.770 ug/l
RT:   7.482 min   Scan# 940
Delta R.T.   -0.000 min
Lab File:    VN083745.D
Acq: 10 Sep 2024   10:20

Tgt Ion: 77 Resp:   29484
Ion   Ratio   Lower   Upper
 77   100
 97    21.7    10.2    30.4
```



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
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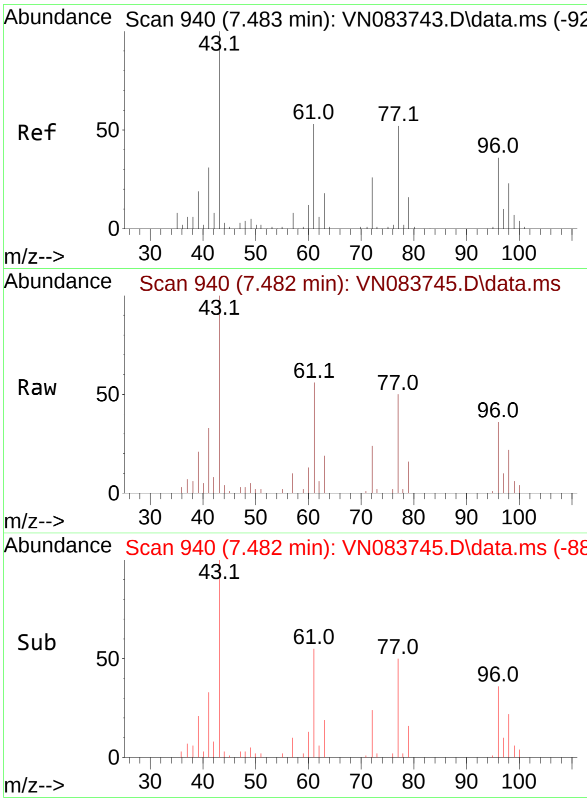
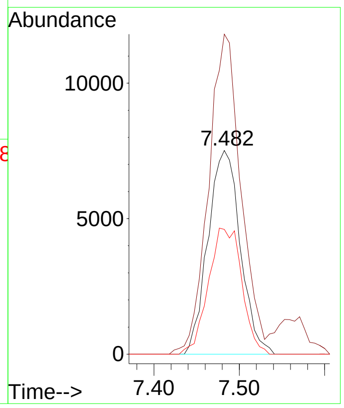
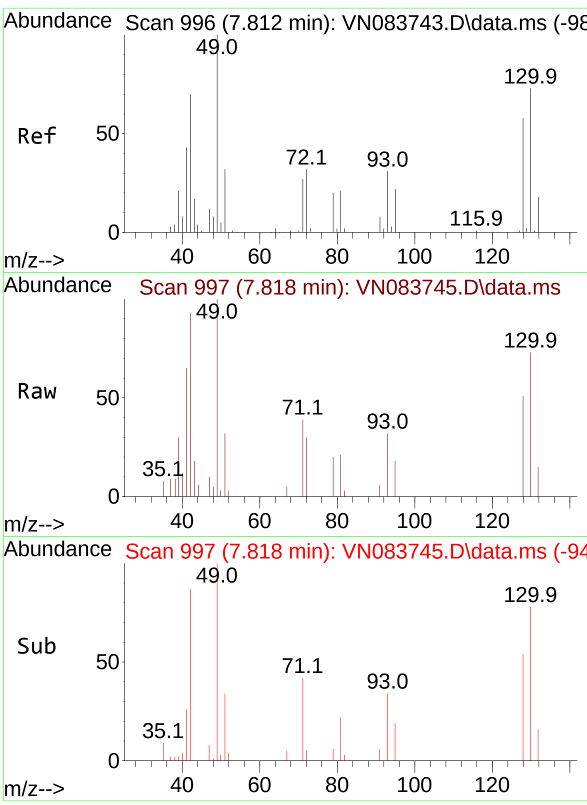
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#27
cis-1,2-Dichloroethene
Concen:    9.019 ug/l
RT:   7.482 min  Scan# 94
Delta R.T.  -0.000 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

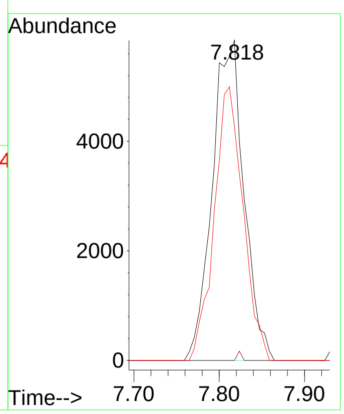
Tgt Ion: 96 Resp:   1982
Ion  Ratio  Lower  Upper
 96  100
 61  157.9    0.0  306.2
 98   64.1    0.0  128.6
```






```
#28
Bromochloromethane
Concen:    9.852 ug/l
RT:   7.818 min  Scan# 997
Delta R.T.  0.006 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

Tgt Ion: 49 Resp:   15146
Ion  Ratio  Lower  Upper
 49  100
129    0.4    0.0    3.4
130   77.7   60.2   90.2
```



Instrument :
MSVOA_N
ClientSampleId :
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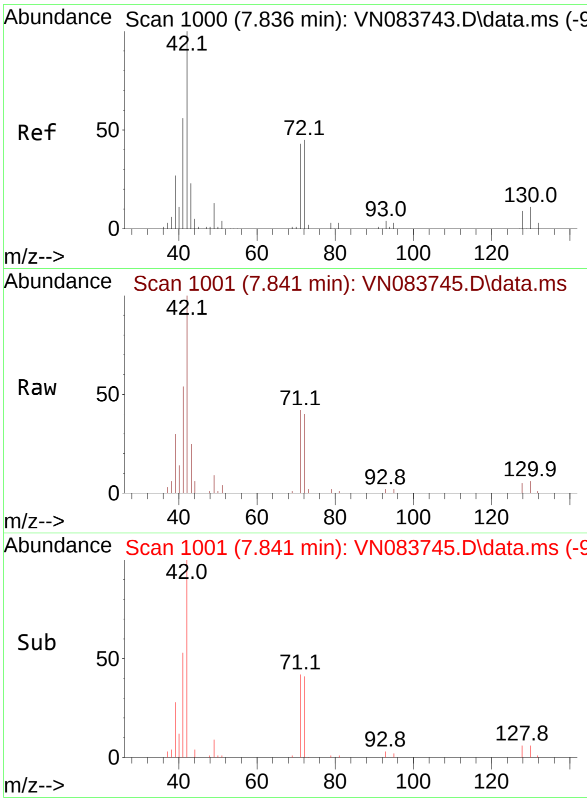
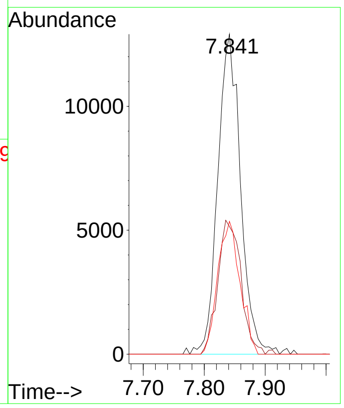
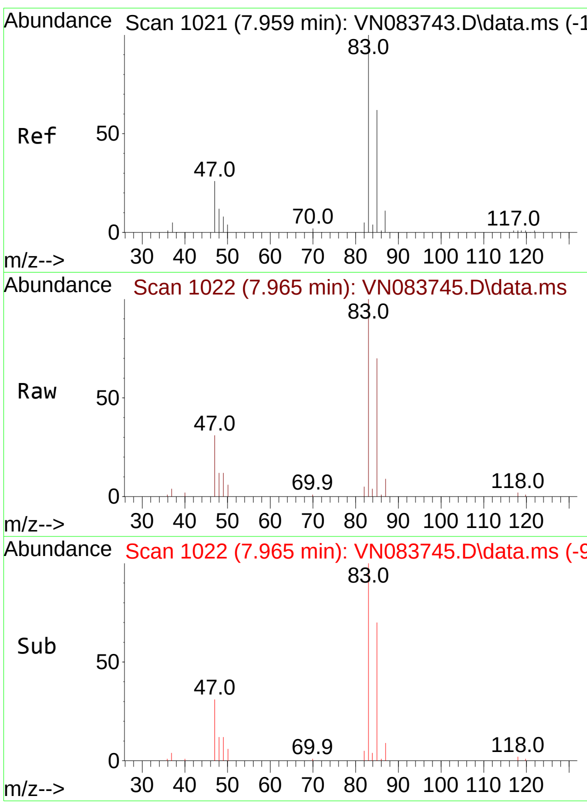


#29
Tetrahydrofuran
Concen: 44.830 ug/l
RT: 7.841 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 42 Resp: 3363

Ion	Ratio	Lower	Upper
42	100		
72	42.5	35.9	53.9
71	40.6	33.9	50.9

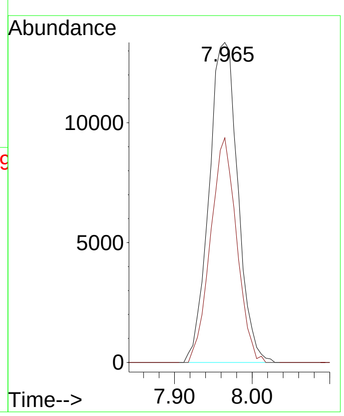


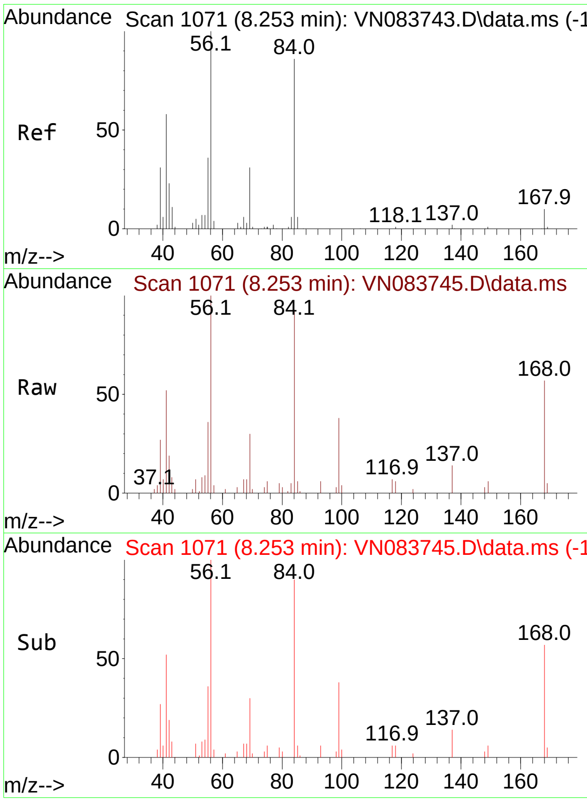


#30
Chloroform
Concen: 8.910 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 83 Resp: 34532

Ion	Ratio	Lower	Upper
83	100		
85	70.2	52.8	79.2

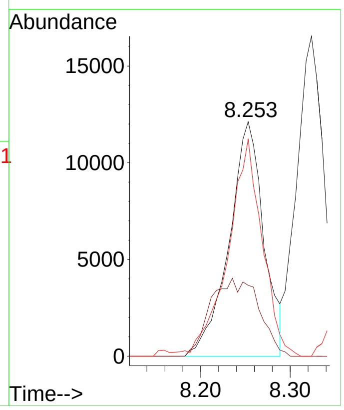




#31
Cyclohexane
Concen: 9.330 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 56 Resp: 3247

Ion	Ratio	Lower	Upper
56	100		
69	30.2	26.9	40.3
84	90.6	69.2	103.8



Instrument :
MSVOA_N
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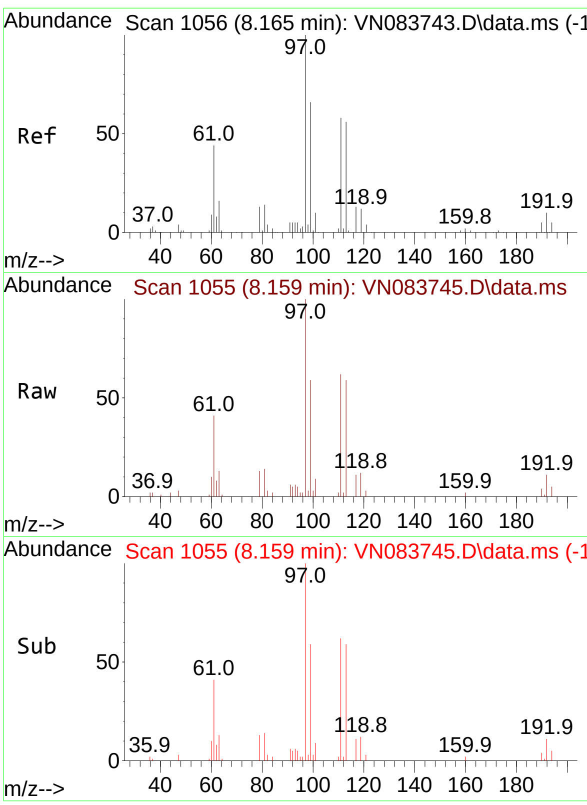
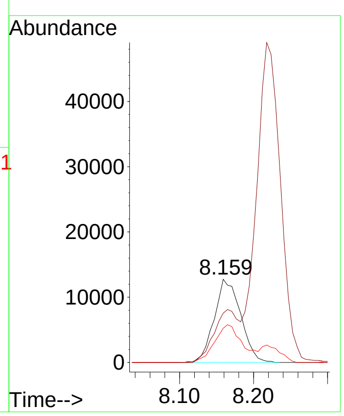
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

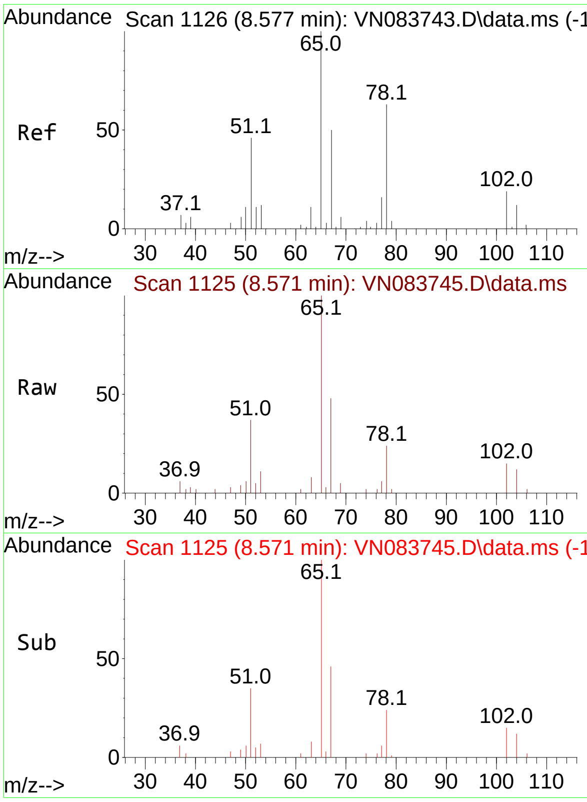


#32
1,1,1-Trichloroethane
Concen: 8.868 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 97 Resp: 31603

Ion	Ratio	Lower	Upper
97	100		
99	60.2	52.3	78.5
61	48.2	38.2	57.2





#33
1,2-Dichloroethane-d4
Concen: 11.218 ug/l
RT: 8.571 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 65 Resp: 27018

Ion	Ratio	Lower	Upper
65	100		
67	48.2	0.0	100.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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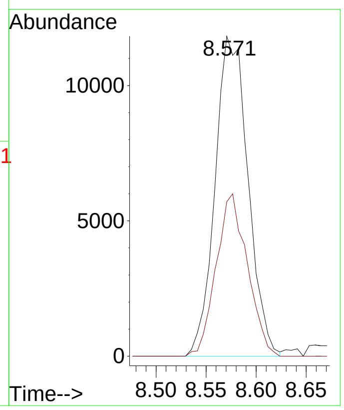
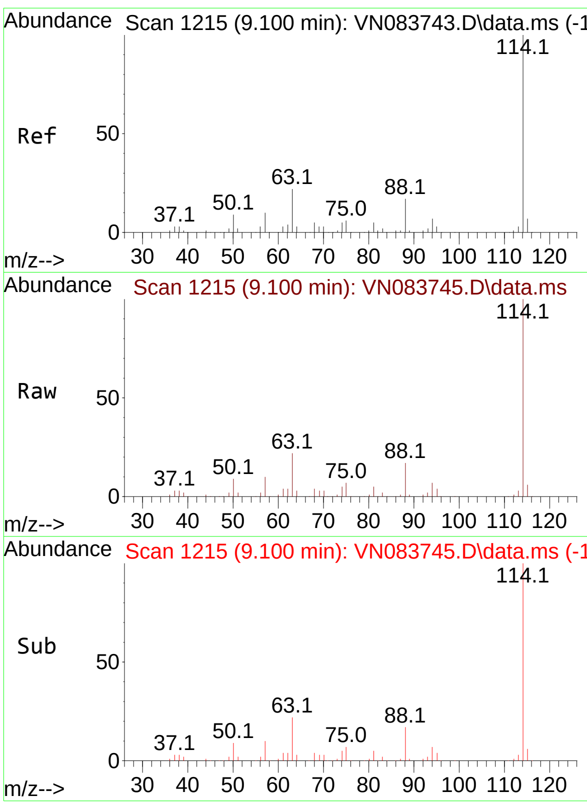


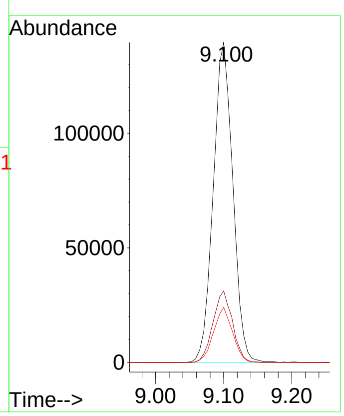
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:114 Resp: 280181

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	43.4
88	17.3	0.0	32.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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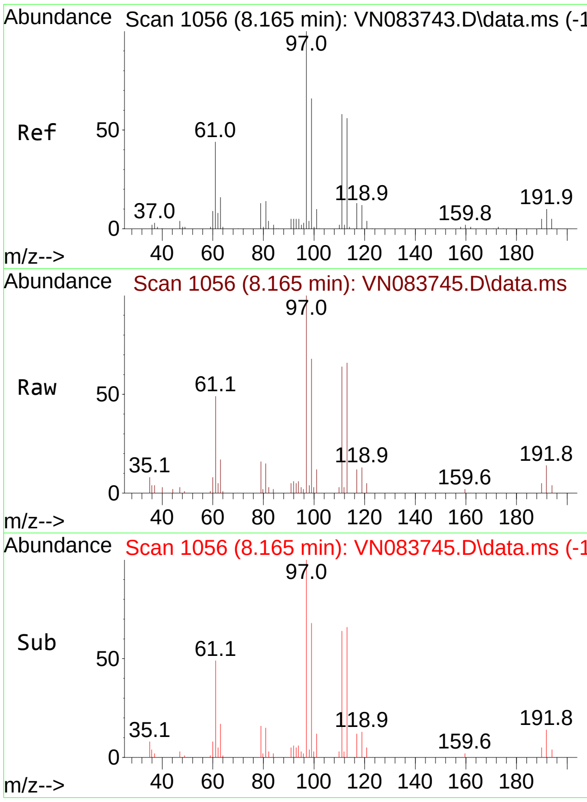
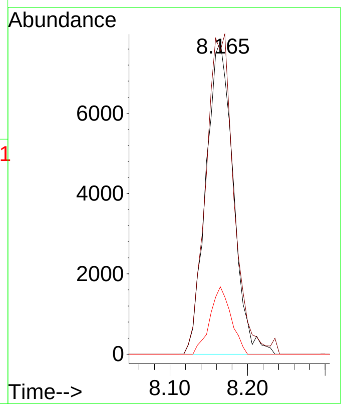
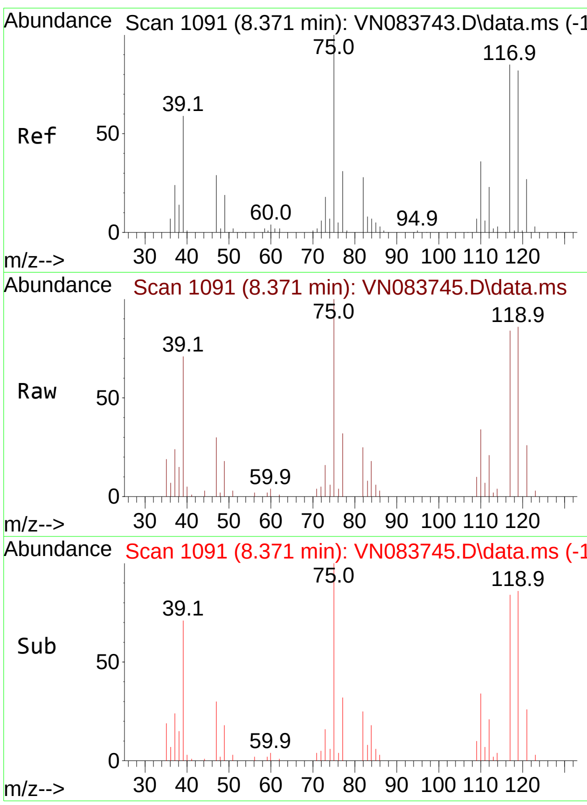


#35
Dibromofluoromethane
Concen: 10.634 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:113 Resp: 1907

Ion	Ratio	Lower	Upper
113	100		
111	105.2	82.6	124.0
192	16.7	14.3	21.5

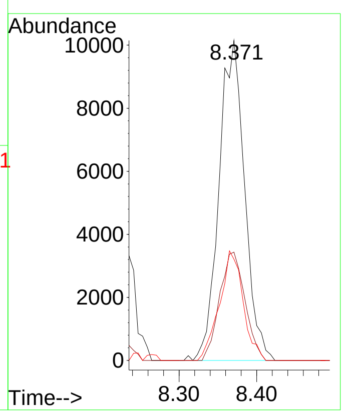




#36
1,1-Dichloropropene
Concen: 8.637 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 75 Resp: 23317

Ion	Ratio	Lower	Upper
75	100		
110	33.5	16.7	50.1
77	31.7	25.2	37.8



Instrument :
MSVOA_N
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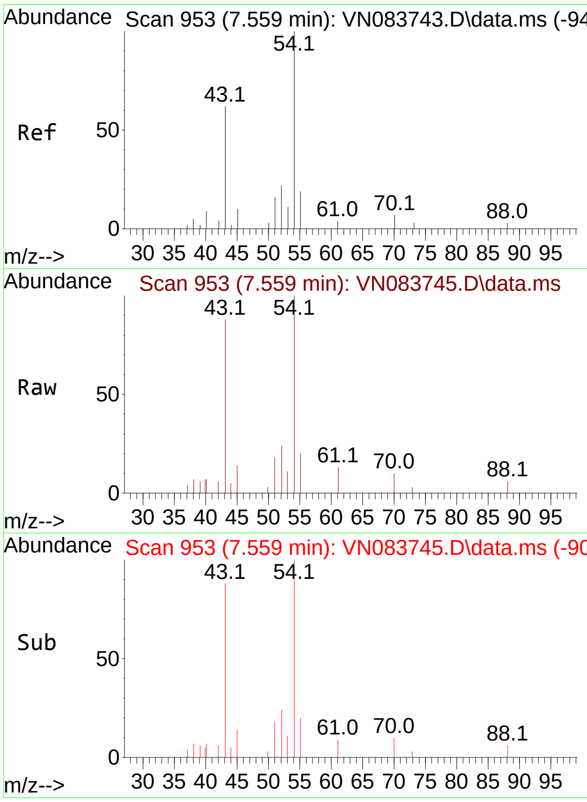
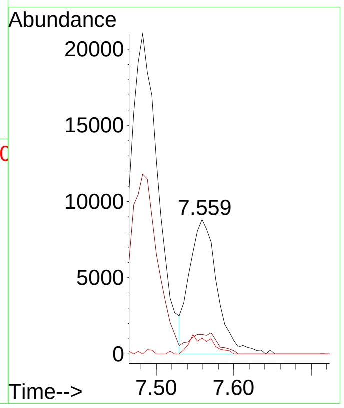
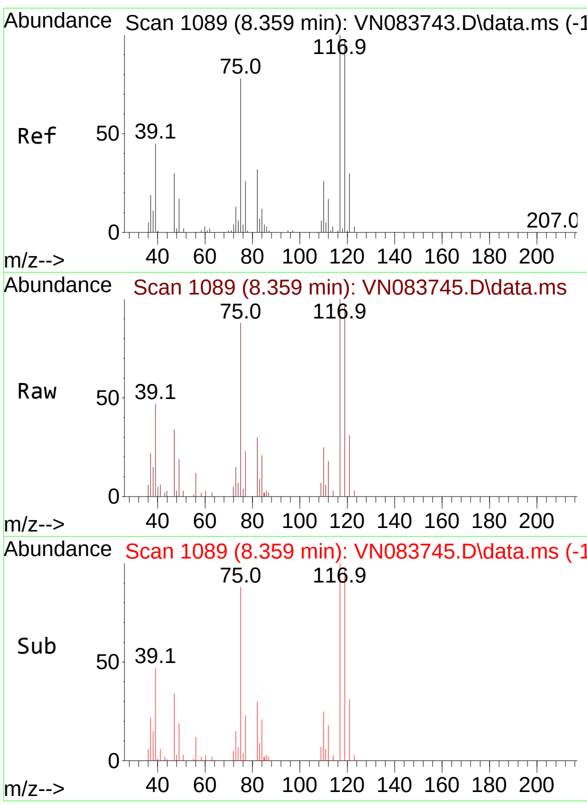


#37
Ethyl Acetate
Concen: 8.998 ug/l
RT: 7.559 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 43 Resp: 2204

Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.1	16.7
70	0.0	8.8	13.2#

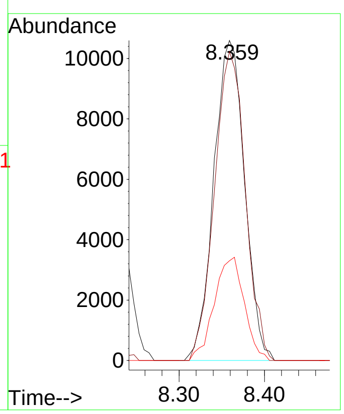


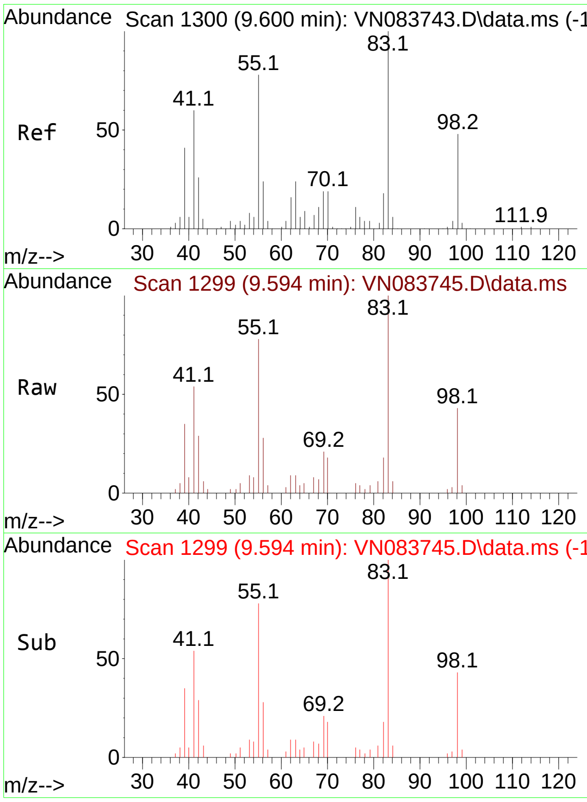


#38
Carbon Tetrachloride
Concen: 8.692 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:117 Resp: 26621

Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.1	114.1
121	31.1	24.1	36.1





#39
Methylcyclohexane
Concen: 8.693 ug/l
RT: 9.594 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 83 Resp: 2671

Ion	Ratio	Lower	Upper
83	100		
55	77.6	62.2	93.4
98	42.5	37.6	56.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
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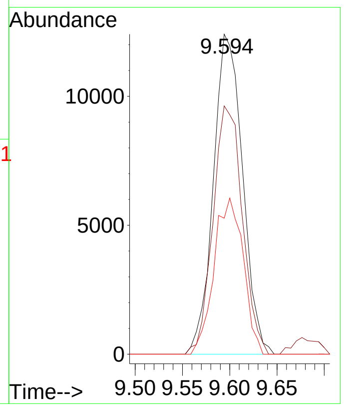

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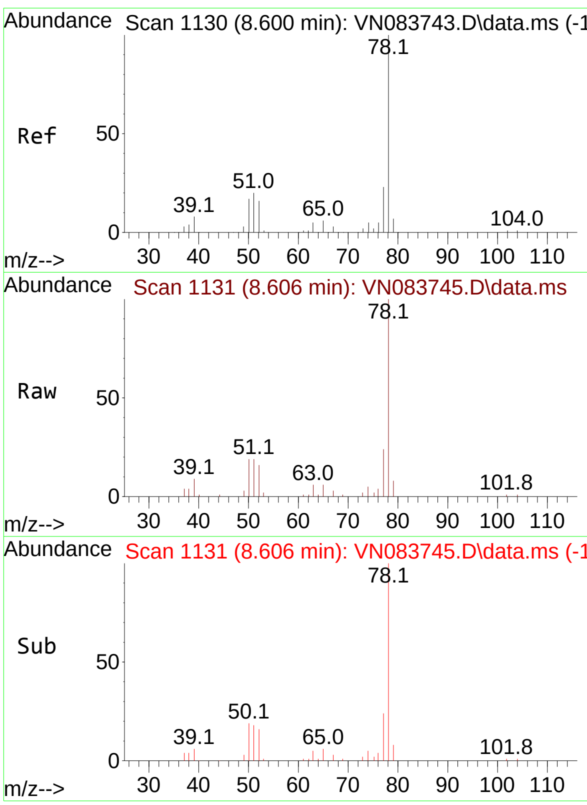
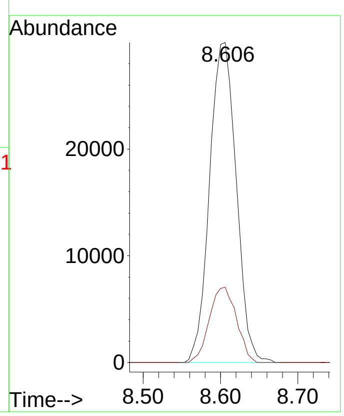


#40
Benzene
Concen: 8.856 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 78 Resp: 71965

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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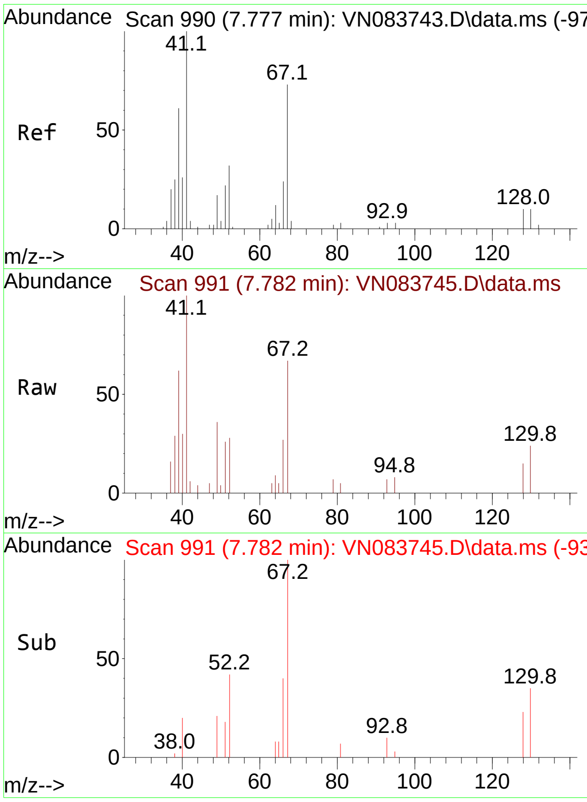
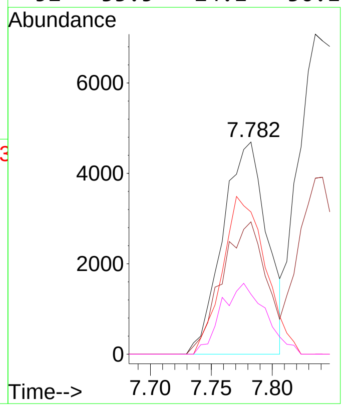
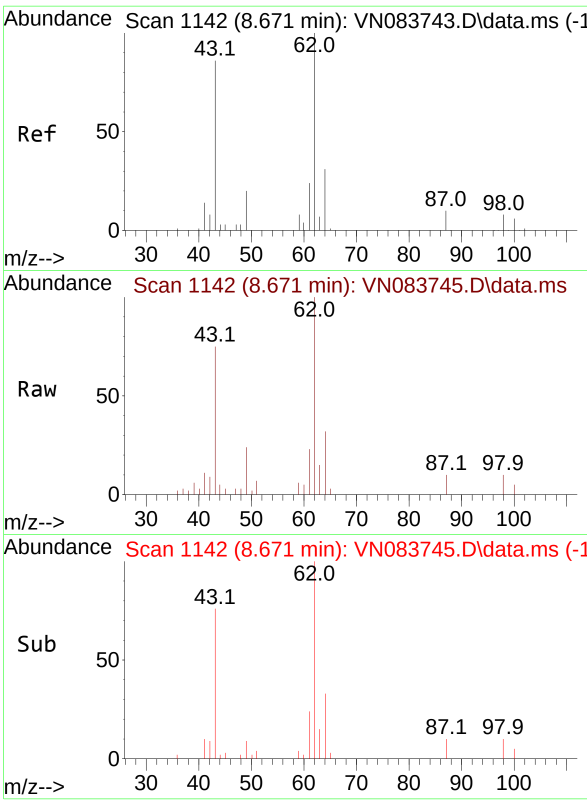


#41
Methacrylonitrile
Concen: 8.168 ug/l
RT: 7.782 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 41 Resp: 1183

Ion	Ratio	Lower	Upper
41	100		
39	62.7	45.4	68.2
67	72.5	55.9	83.9
52	33.5	24.1	36.1

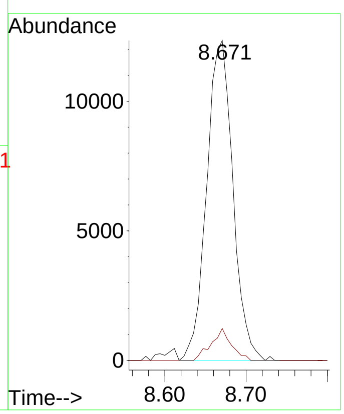


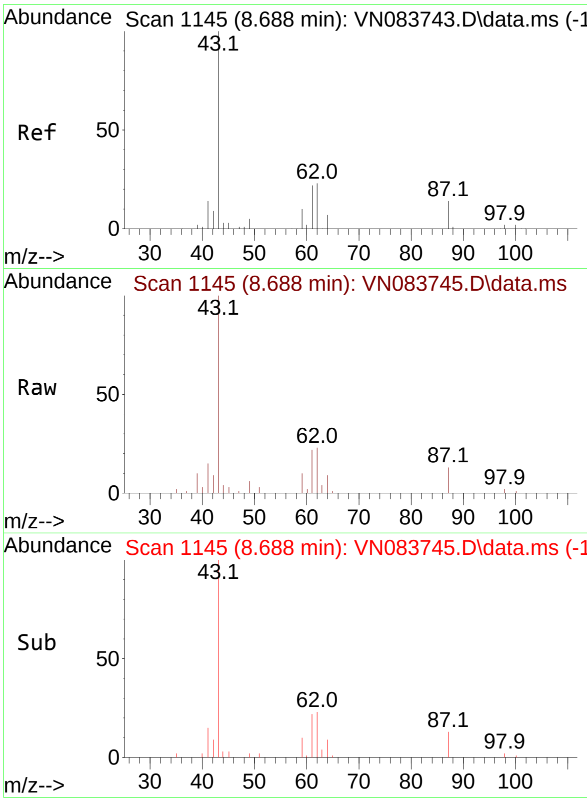


#42
1,2-Dichloroethane
Concen: 9.144 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 62 Resp: 27764

Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	16.6






```
#43
Isopropyl Acetate
Concen:    8.677 ug/l
RT:   8.688 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

Tgt Ion: 43 Resp:   3853
Ion  Ratio  Lower  Upper
 43  100
 61   27.5   19.4   29.0
 87   12.6    9.8   14.6
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
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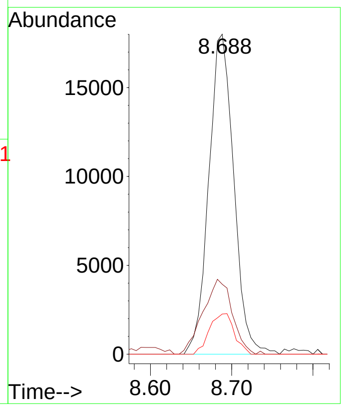
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



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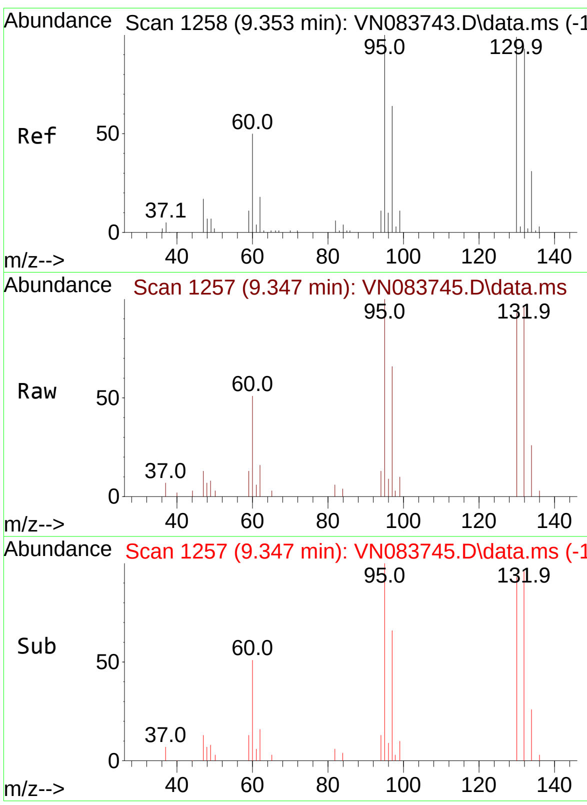
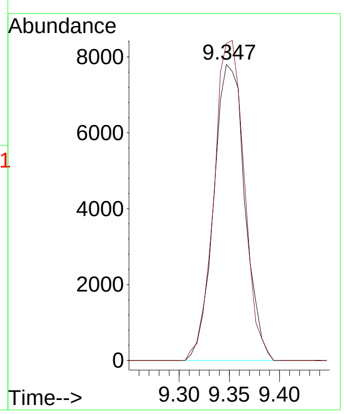
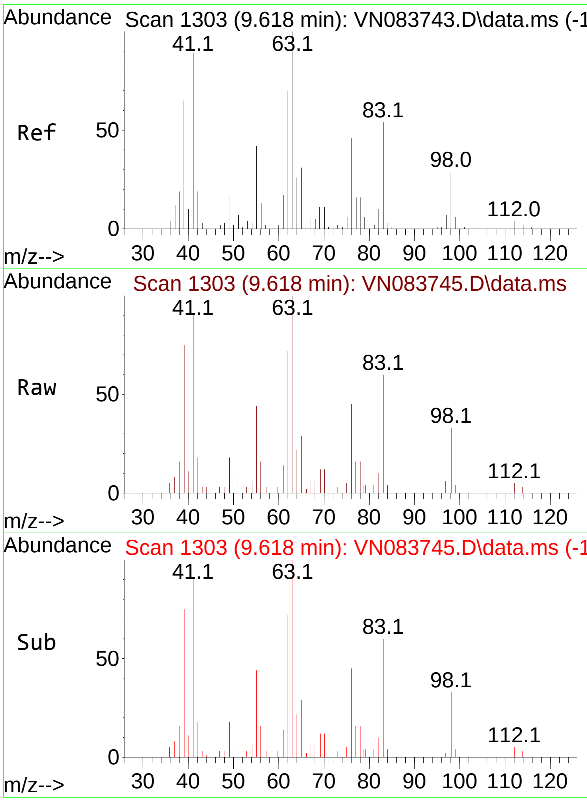



```
#44
Trichloroethene
Concen:    8.919 ug/l
RT:   9.347 min  Scan# 1257
Delta R.T.  -0.006 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

Tgt Ion:130 Resp:   16783
Ion  Ratio  Lower  Upper
130  100
 95  107.1    0.0  200.4
```





#45
1,2-Dichloropropane
Concen: 8.655 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 63 Resp: 1699

Ion	Ratio	Lower	Upper
63	100		
65	28.8	25.9	38.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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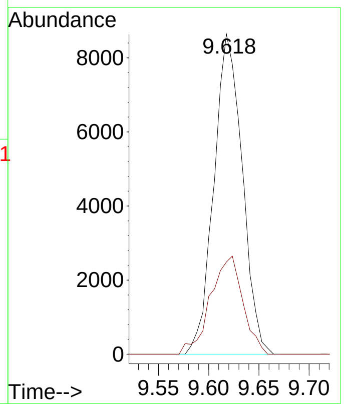
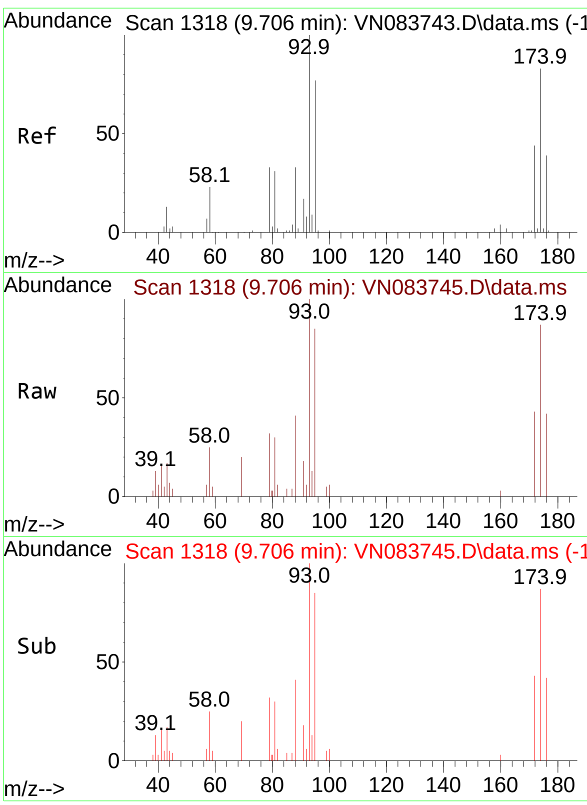
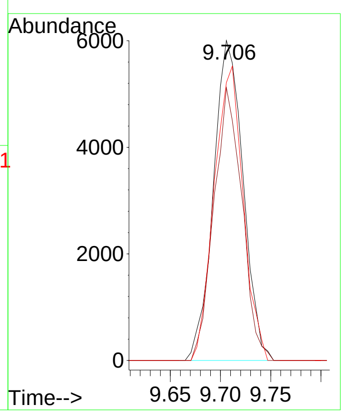


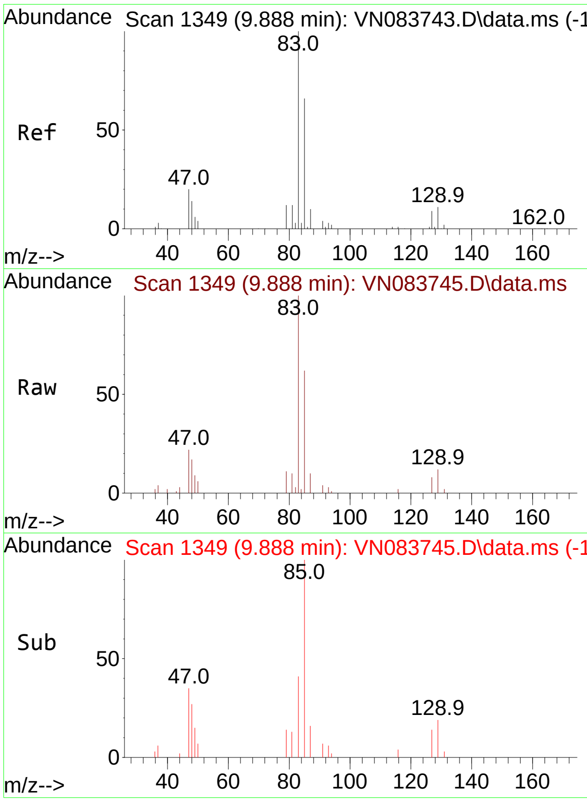


#46
Dibromomethane
Concen: 8.987 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 93 Resp: 12363

Ion	Ratio	Lower	Upper
93	100		
95	80.6	65.3	97.9
174	89.7	71.0	106.4





#47
Bromodichloromethane
Concen: 8.674 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 83 Resp: 2582

Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.8	77.8
127	8.4	6.6	9.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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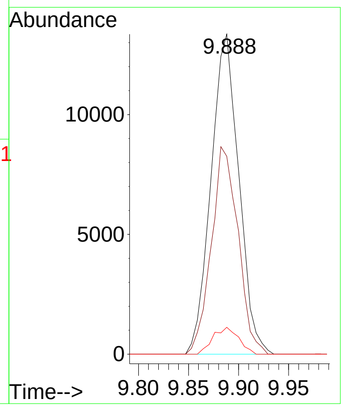
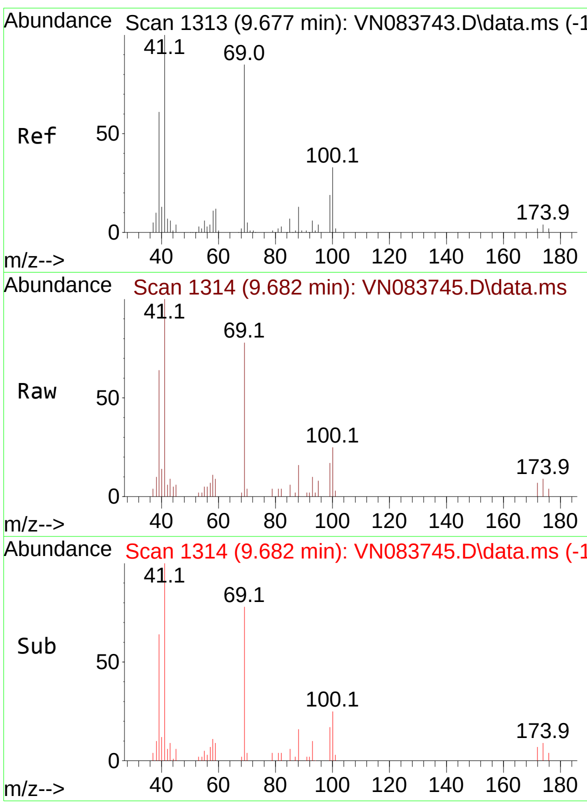


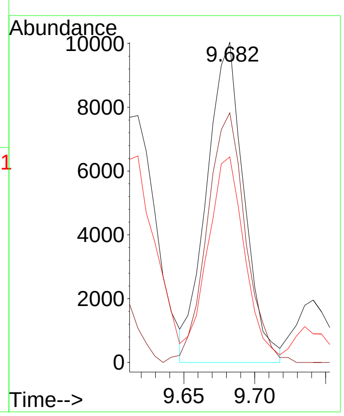
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#48
Methyl methacrylate
Concen: 8.733 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 41 Resp: 18399

Ion	Ratio	Lower	Upper
41	100		
69	80.3	64.3	96.5
39	64.6	48.9	73.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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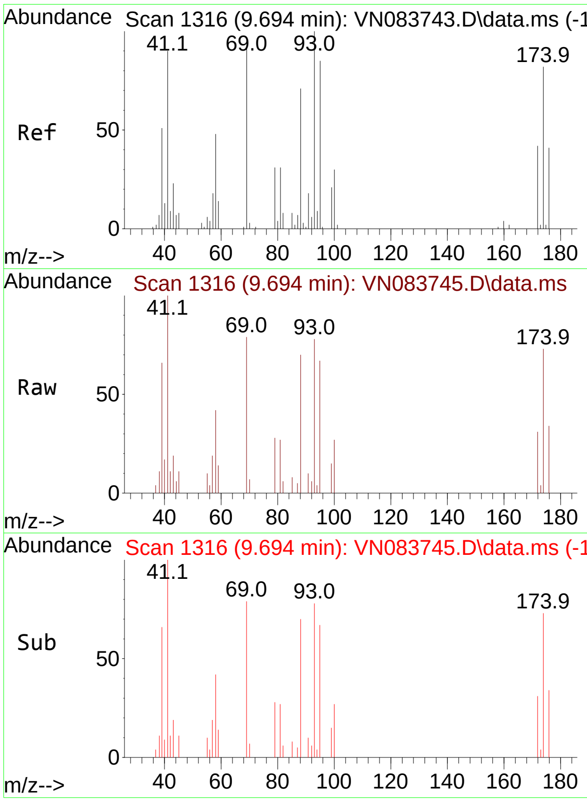
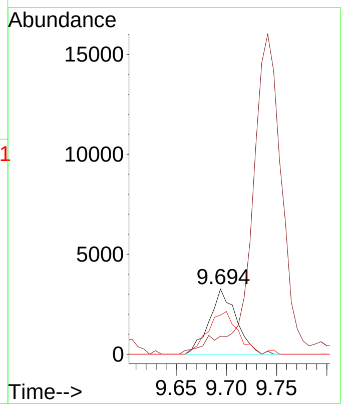
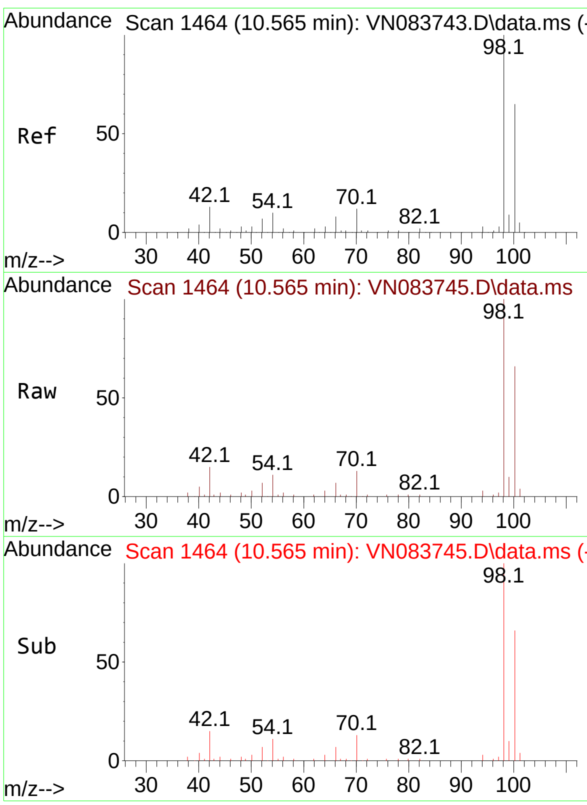


#49
1,4-Dioxane
Concen: 175.652 ug/l
RT: 9.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 88 Resp: 608

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	72.4	57.1	85.7

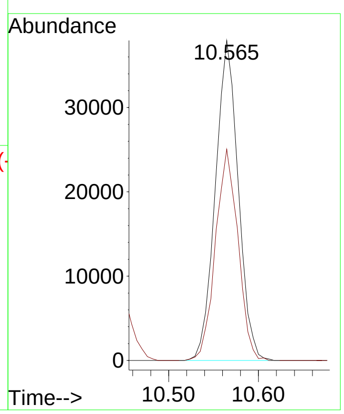


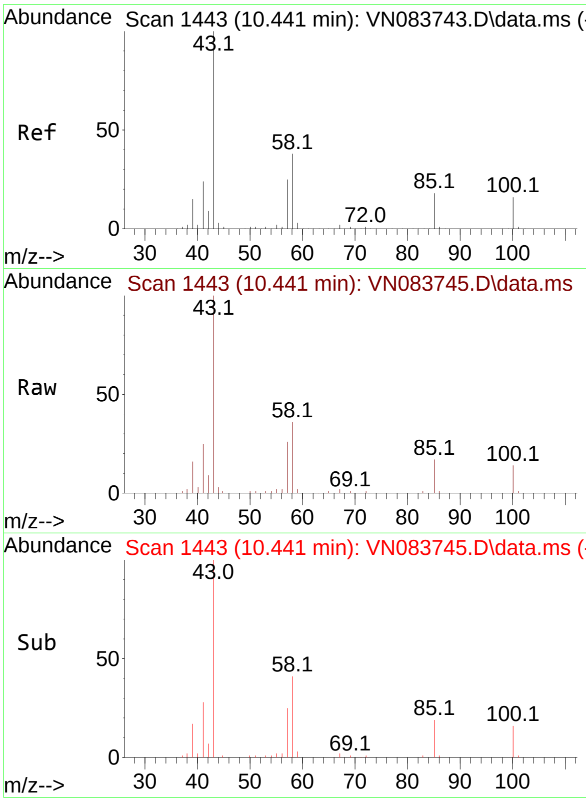


#50
Toluene-d8
Concen: 10.833 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 98 Resp: 67177

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 43.923 ug/l
RT: 10.441 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 43 Resp: 10617

Ion	Ratio	Lower	Upper
43	100		
58	37.0	31.6	47.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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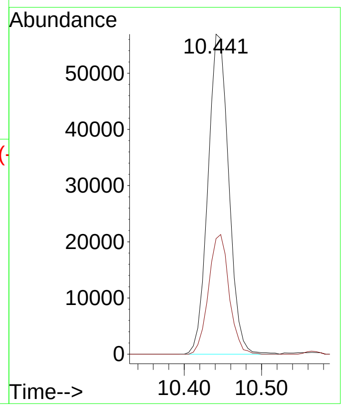
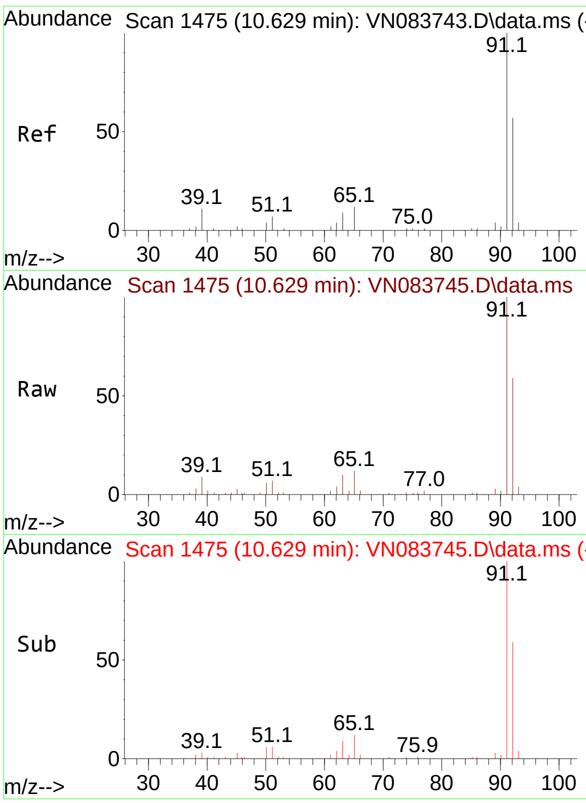
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

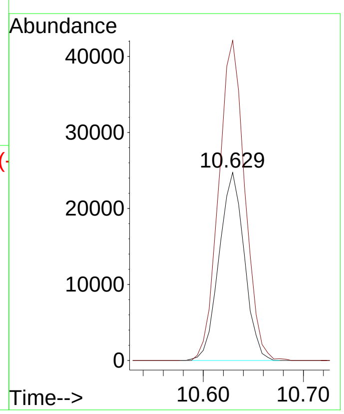




#52
Toluene
Concen: 8.710 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 92 Resp: 43293

Ion	Ratio	Lower	Upper
92	100		
91	176.0	134.7	202.1



Instrument : MSVOA_N
ClientSampleId : VSTDICC010

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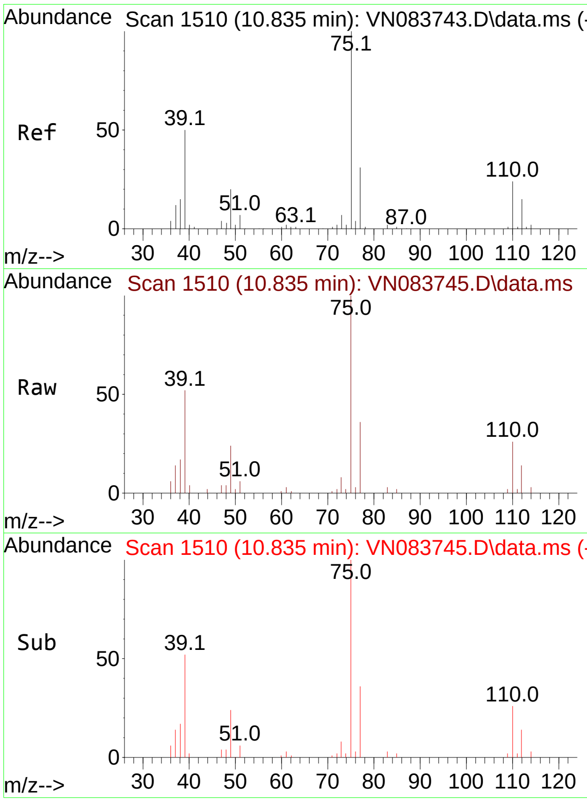
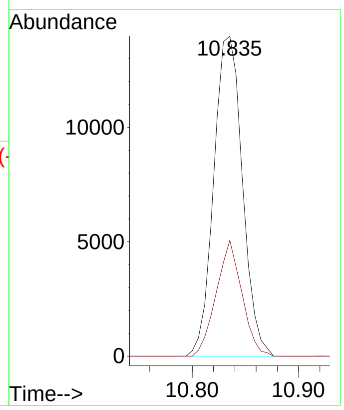
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

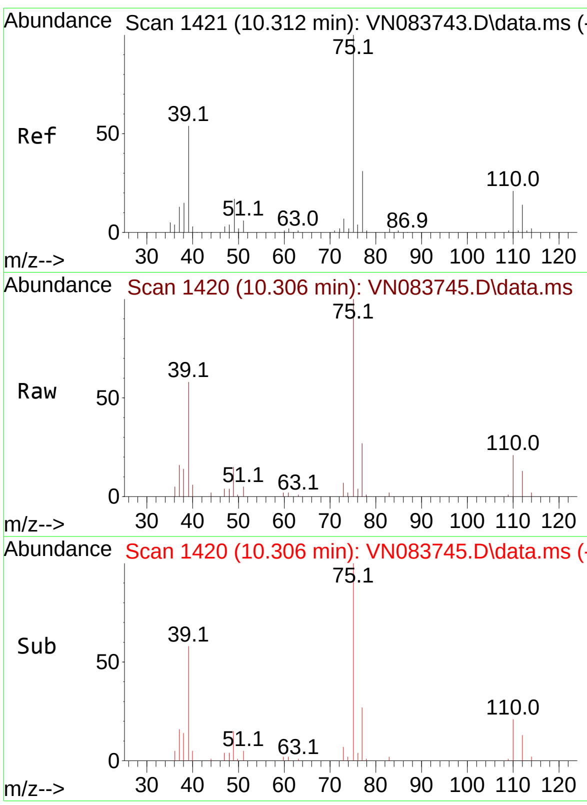


#53
t-1,3-Dichloropropene
Concen: 8.667 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 75 Resp: 2615

Ion	Ratio	Lower	Upper
75	100		
77	36.2	25.8	38.6

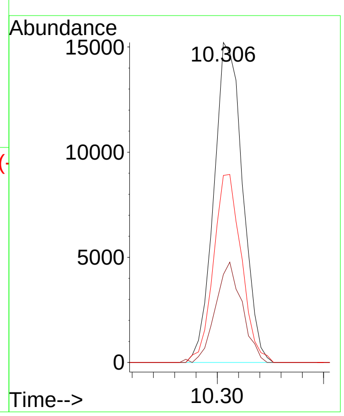


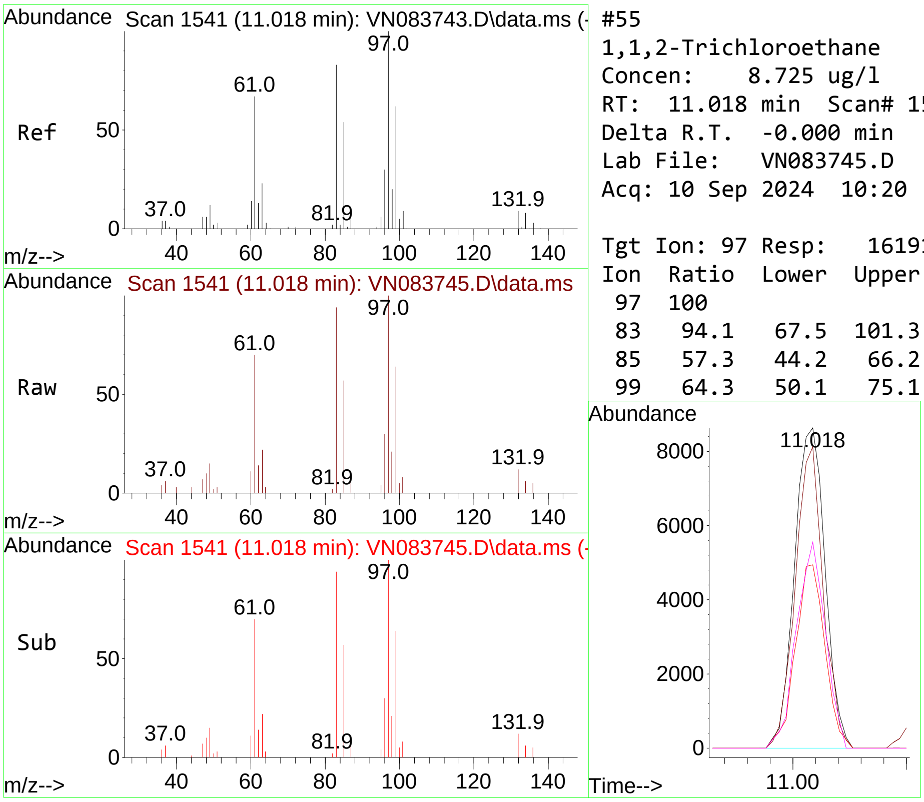


#54
cis-1,3-Dichloropropene
Concen: 9.037 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 75 Resp: 28646

Ion	Ratio	Lower	Upper
75	100		
77	27.5	25.0	37.6
39	58.5	42.6	64.0





#55
1,1,2-Trichloroethane
Concen: 8.725 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 97 Resp: 16191

Ion	Ratio	Lower	Upper
97	100		
83	94.1	67.5	101.3
85	57.3	44.2	66.2
99	64.3	50.1	75.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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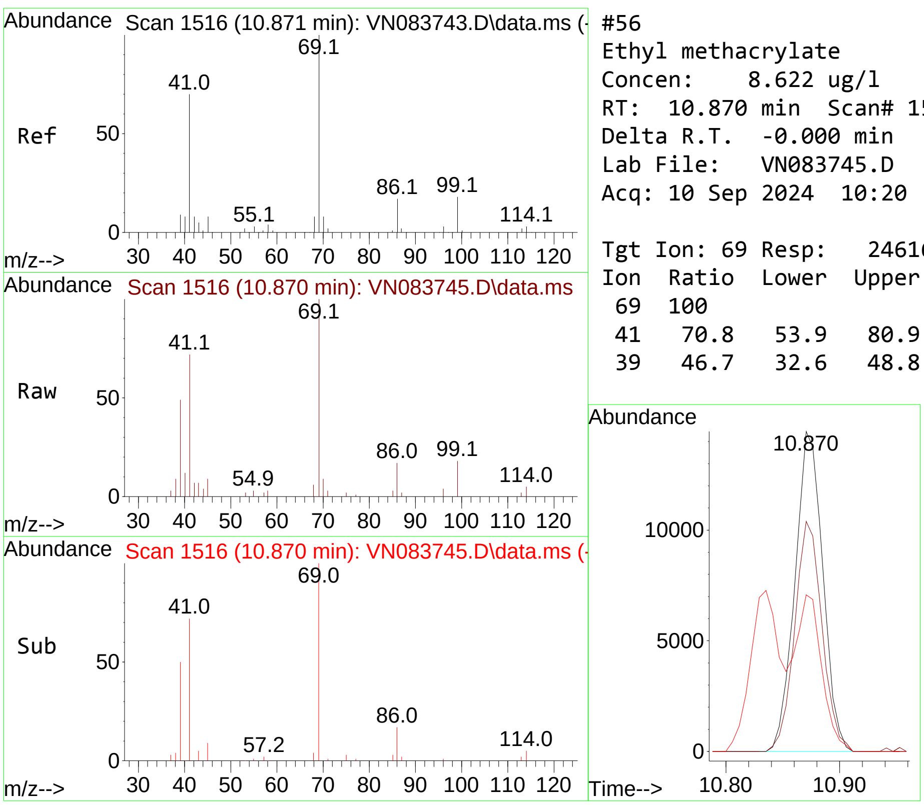

#56
Ethyl methacrylate
Concen: 8.622 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 69 Resp: 24616

Ion	Ratio	Lower	Upper
69	100		
41	70.8	53.9	80.9
39	46.7	32.6	48.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
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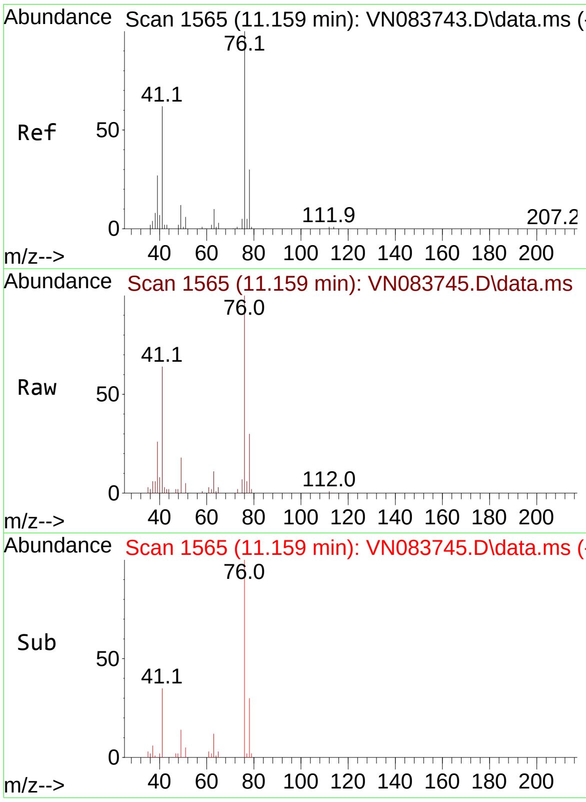
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

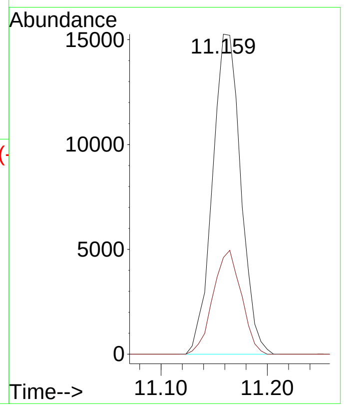
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

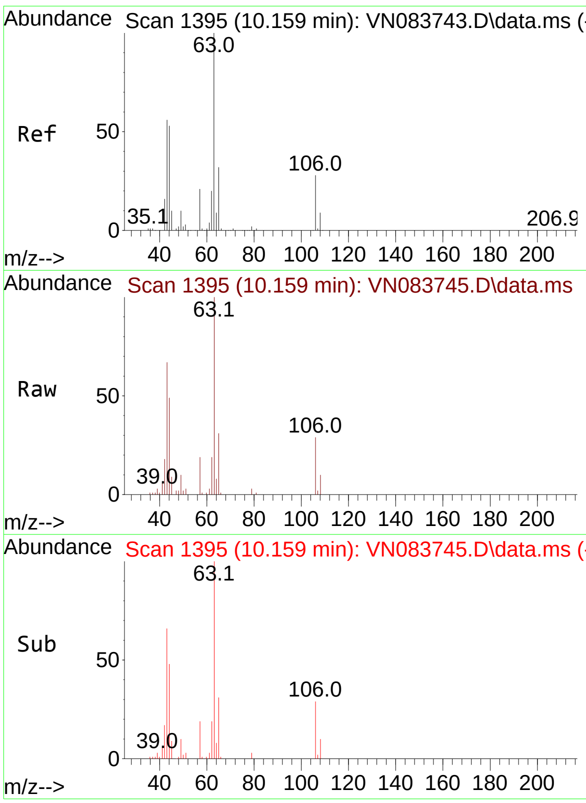


#57
1,3-Dichloropropane
Concen: 8.865 ug/l
RT: 11.159 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 76 Resp: 2827

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.6

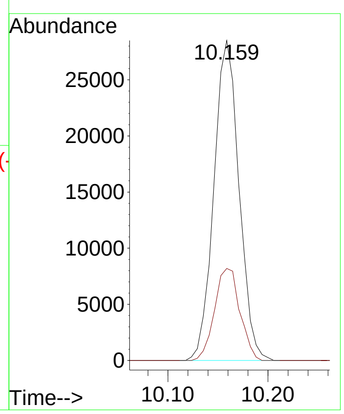


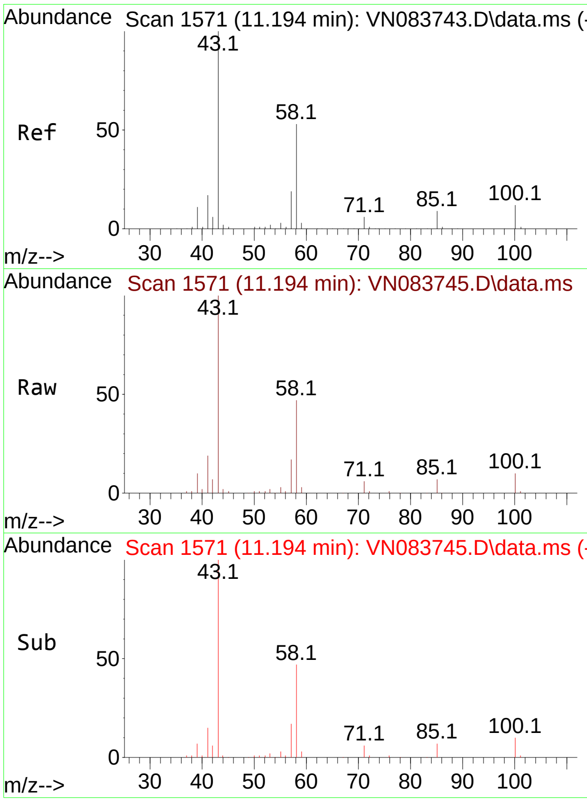


#58
2-Chloroethyl Vinyl ether
Concen: 48.319 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 63 Resp: 49705

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.3	34.9





#59
2-Hexanone
Concen: 43.201 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 43 Resp: 7725

Ion	Ratio	Lower	Upper
43	100		
58	51.5	27.2	81.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
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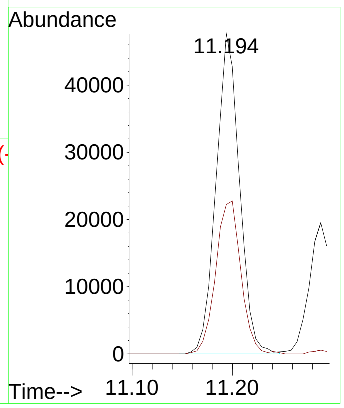
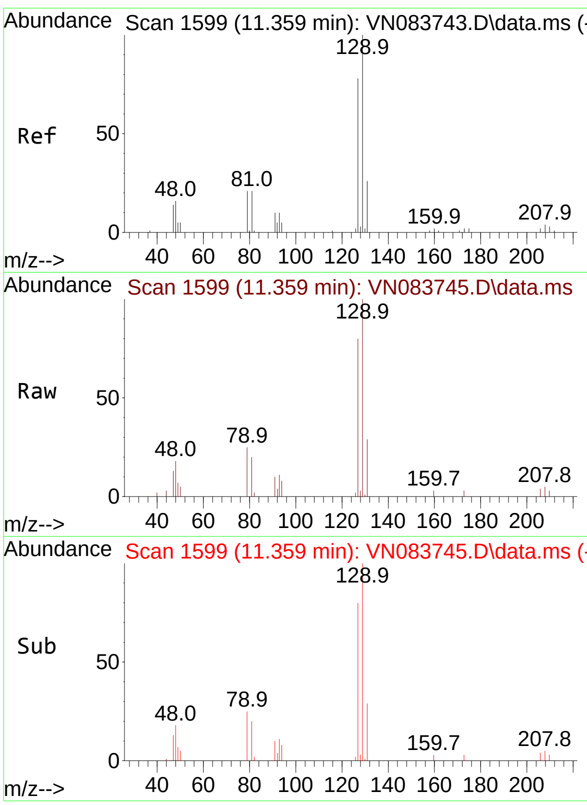
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

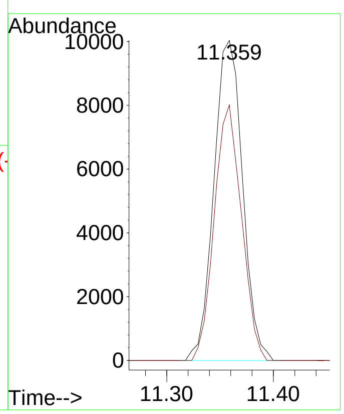


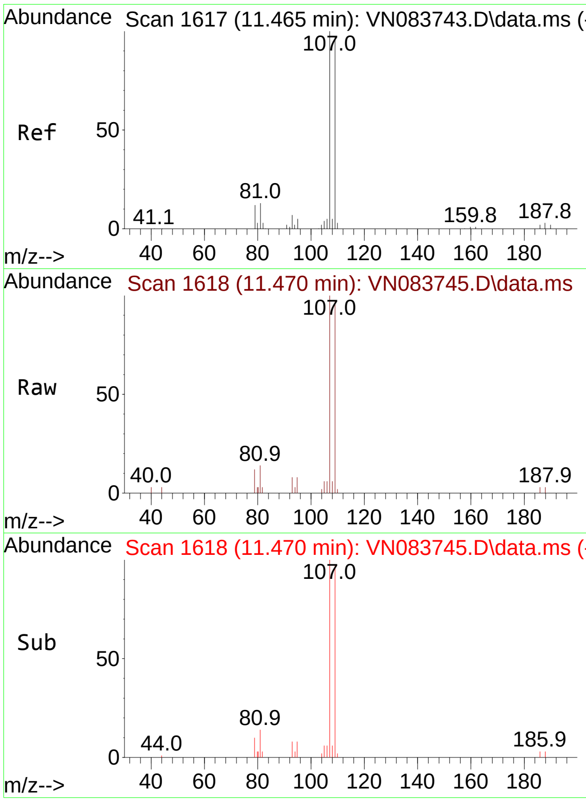


#60
Dibromochloromethane
Concen: 9.038 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:129 Resp: 18769

Ion	Ratio	Lower	Upper
129	100		
127	75.6	39.0	116.9





#61
1,2-Dibromoethane
Concen: 8.623 ug/l
RT: 11.470 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:107 Resp: 1595

Ion	Ratio	Lower	Upper
107	100		
109	95.4	75.6	113.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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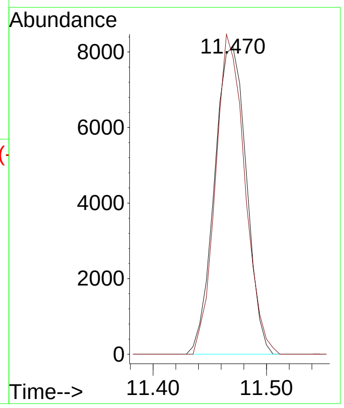
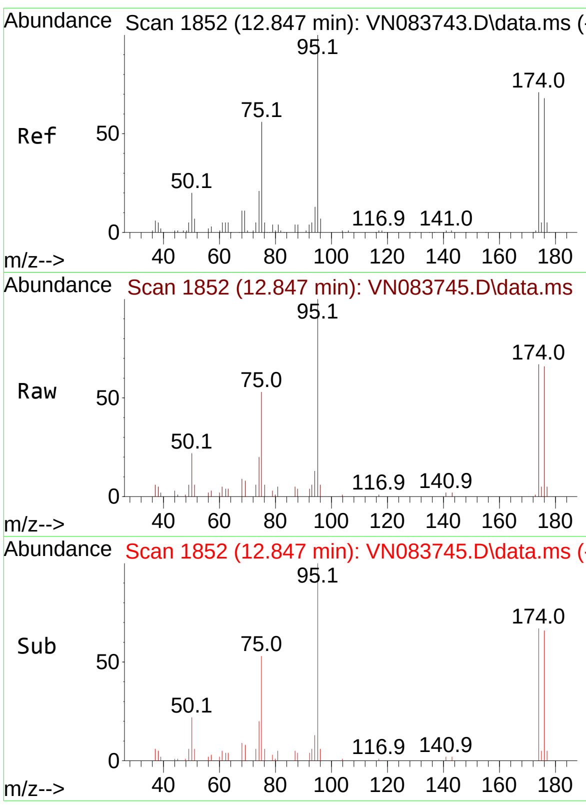
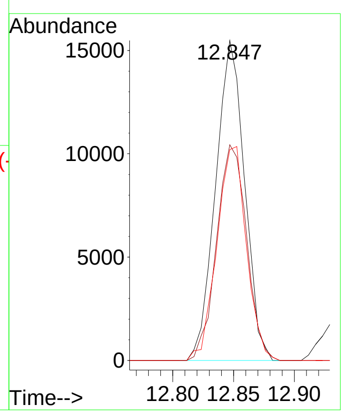


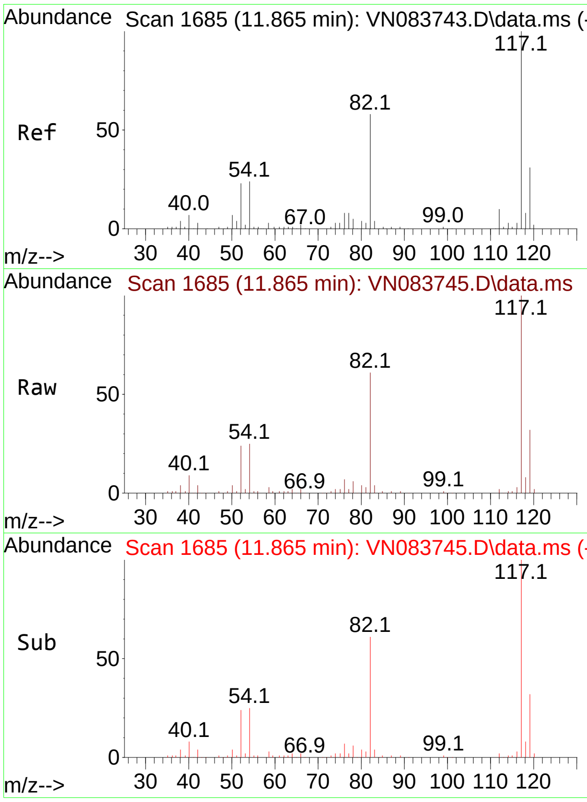


#62
4-Bromofluorobenzene
Concen: 10.043 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 95 Resp: 25692

Ion	Ratio	Lower	Upper
95	100		
174	70.0	0.0	139.8
176	68.2	0.0	131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:117 Resp: 23695

Ion	Ratio	Lower	Upper
117	100		
82	60.7	47.4	71.0
119	31.9	26.3	39.5

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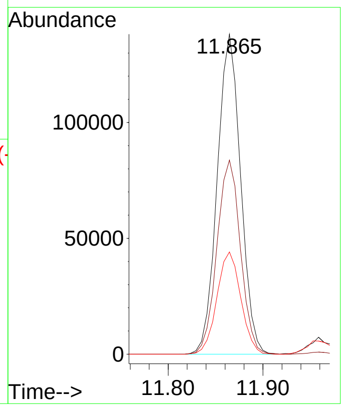
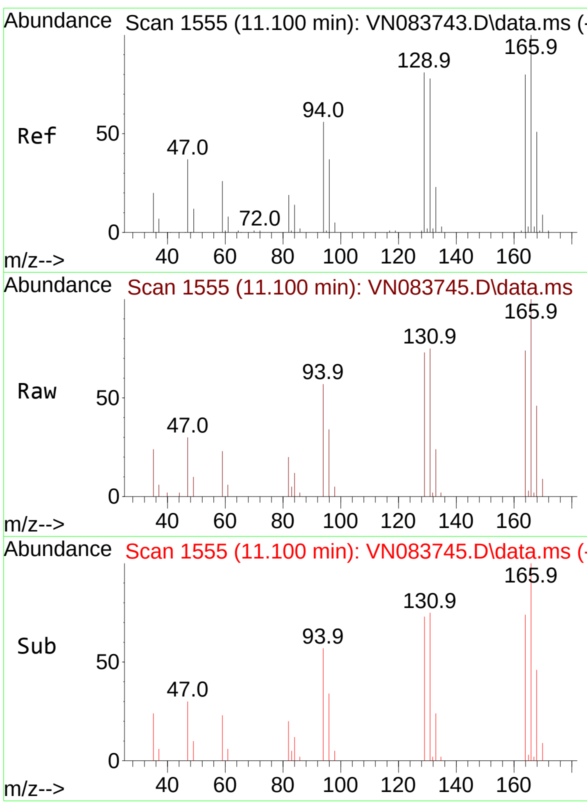
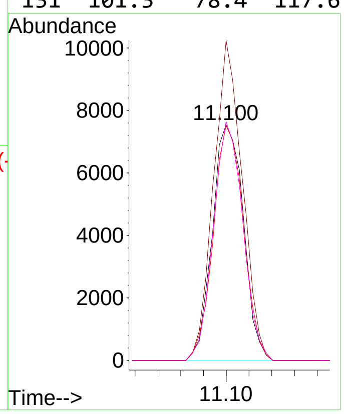




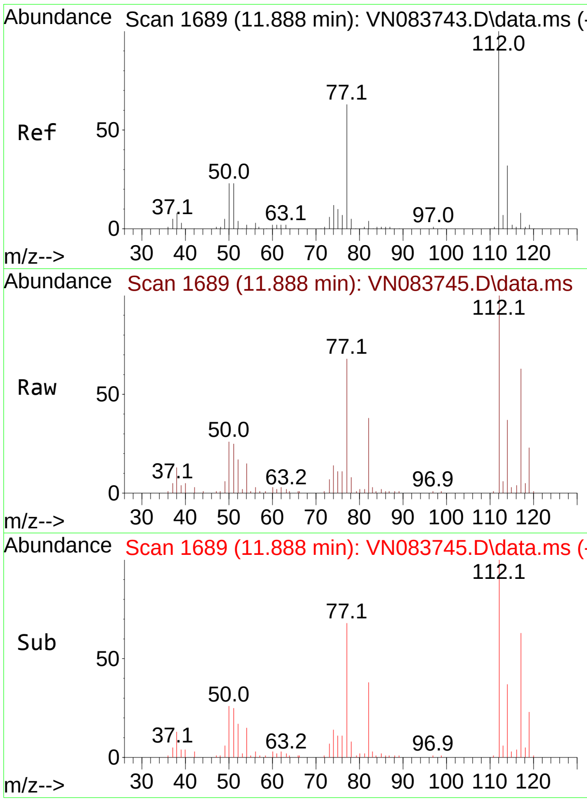
#64
Tetrachloroethene
Concen: 9.082 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:164 Resp: 14312

Ion	Ratio	Lower	Upper
164	100		
166	135.7	103.7	155.5
129	99.6	79.9	119.9
131	101.3	78.4	117.6



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#65
Chlorobenzene
Concen: 8.753 ug/l
RT: 11.888 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:112 Resp: 4609

Ion	Ratio	Lower	Upper
112	100		
114	36.8	25.7	38.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
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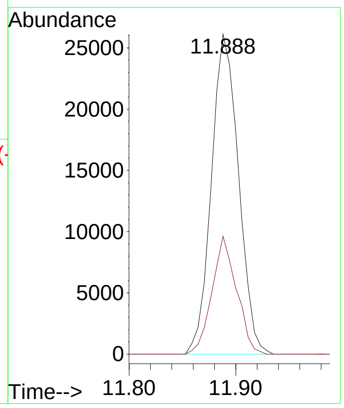
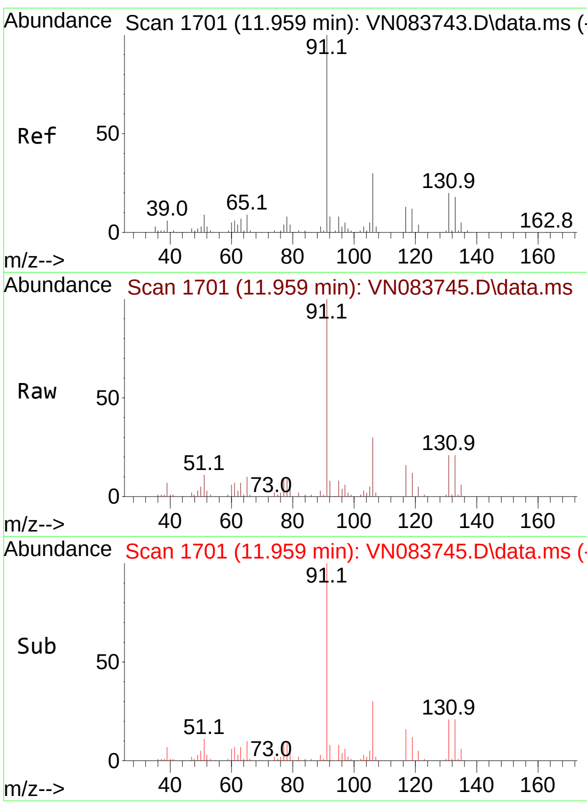
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



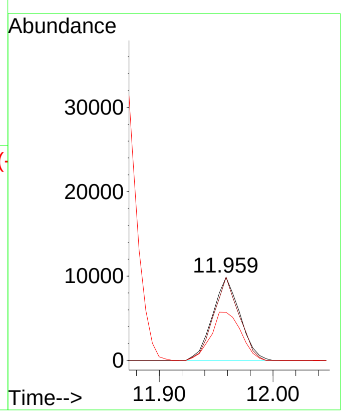
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

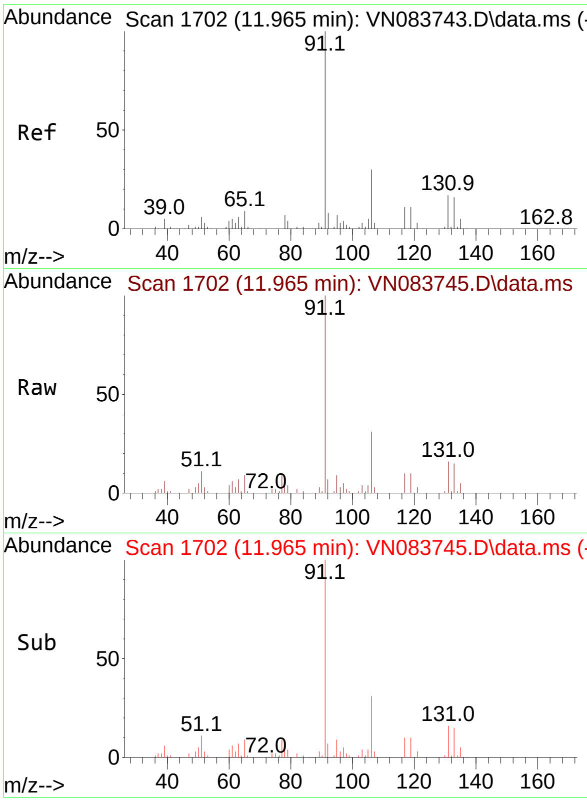


#66
1,1,1,2-Tetrachloroethane
Concen: 9.073 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:131 Resp: 16565

Ion	Ratio	Lower	Upper
131	100		
133	93.2	47.5	142.6
119	63.7	31.6	94.8





#67
Ethyl Benzene
Concen: 8.852 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 91 Resp: 8281

Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.3	36.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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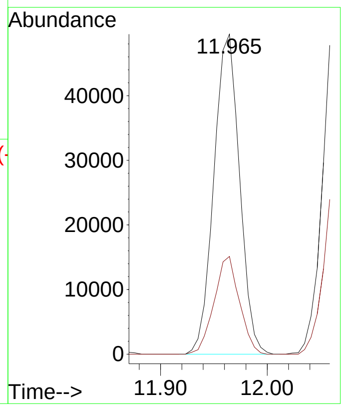
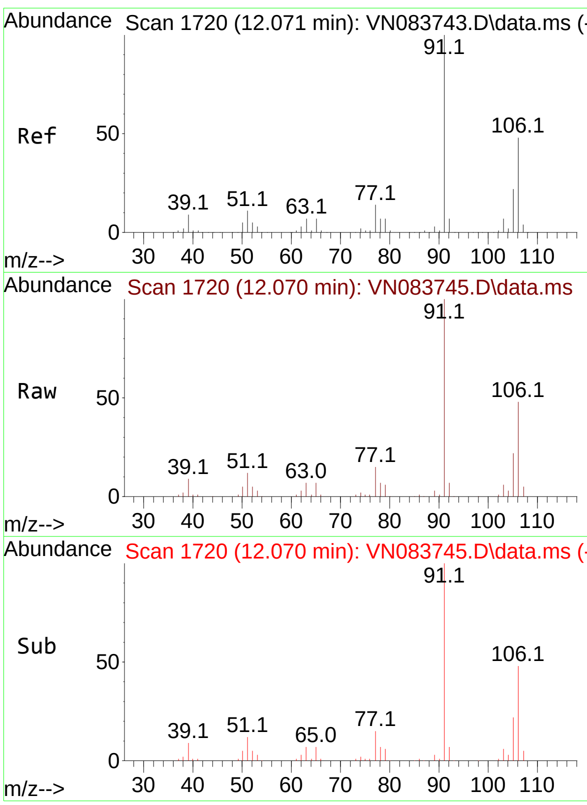


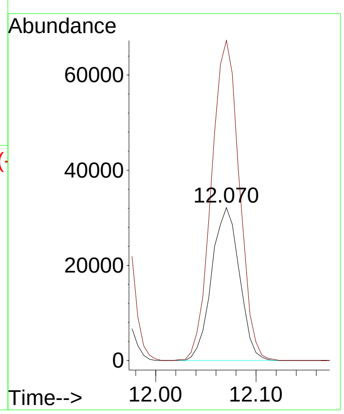
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

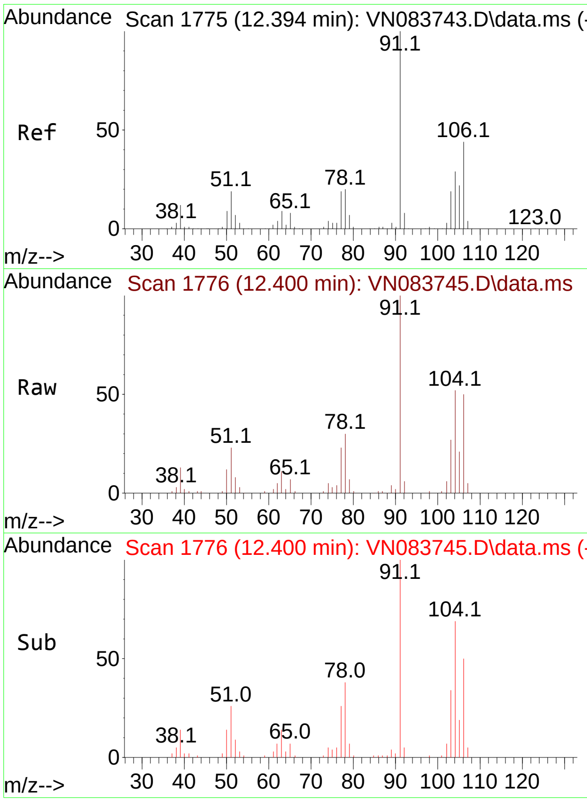


#68
m/p-Xylenes
Concen: 17.786 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:106 Resp: 61777

Ion	Ratio	Lower	Upper
106	100		
91	210.7	169.2	253.8

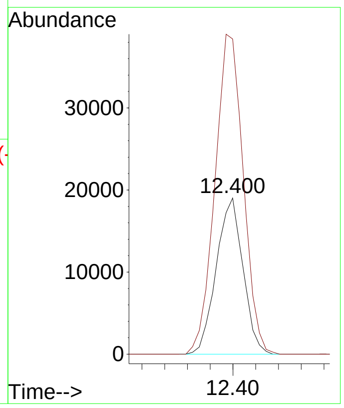




#69
o-Xylene
Concen: 9.224 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:106 Resp: 3101

Ion	Ratio	Lower	Upper
106	100		
91	217.7	112.9	338.6



Instrument :
MSVOA_N
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VSTDICC010

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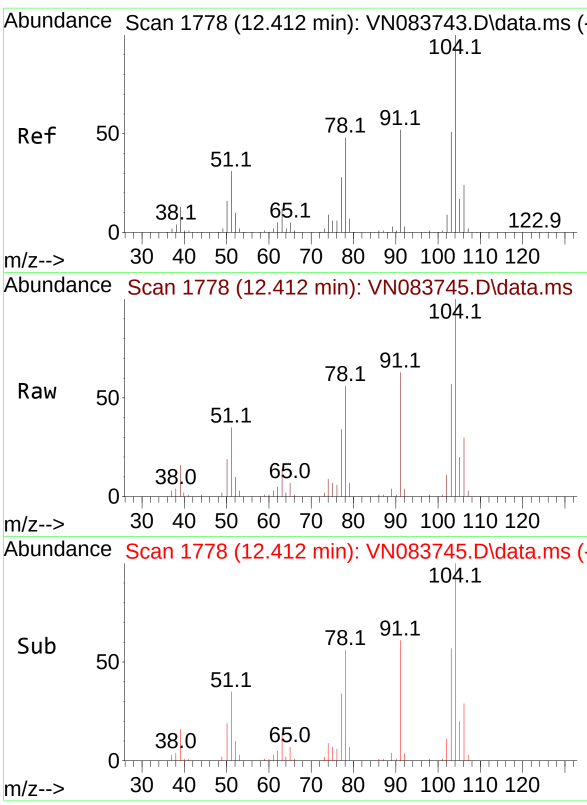
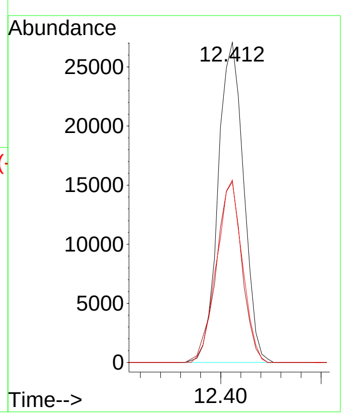
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#70
Styrene
Concen: 8.656 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:104 Resp: 47767

Ion	Ratio	Lower	Upper
104	100		
78	57.2	43.3	64.9
103	57.5	43.4	65.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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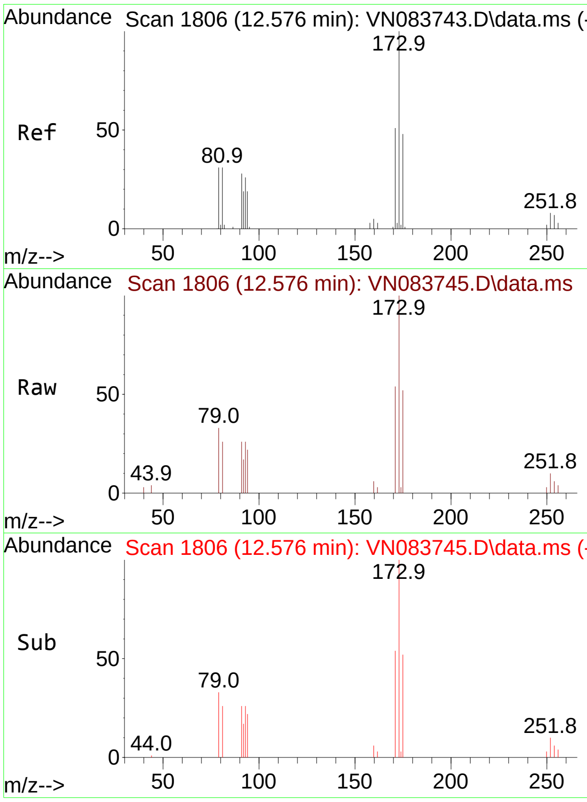
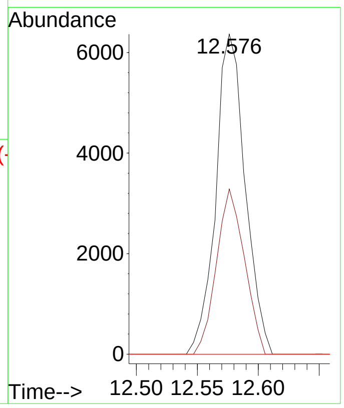
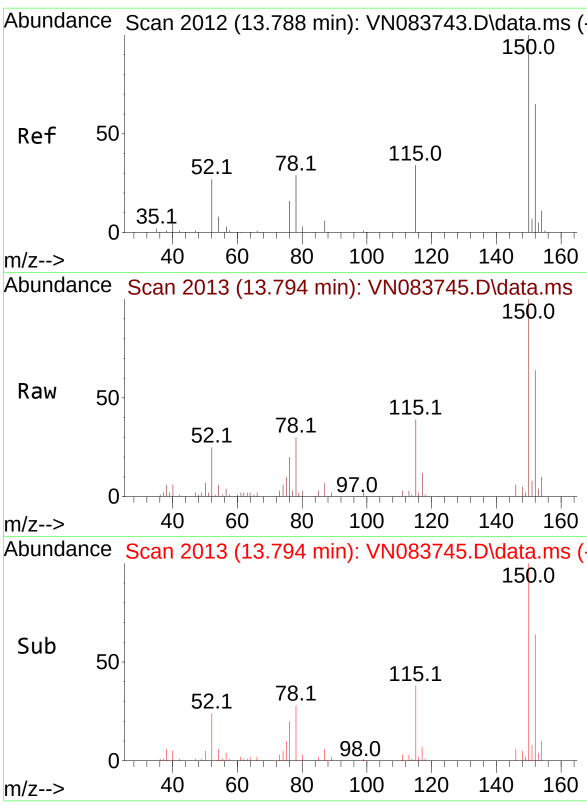
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#71
Bromoform
Concen:    8.701 ug/l
RT:  12.576 min  Scan# 18
Delta R.T.  -0.000 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

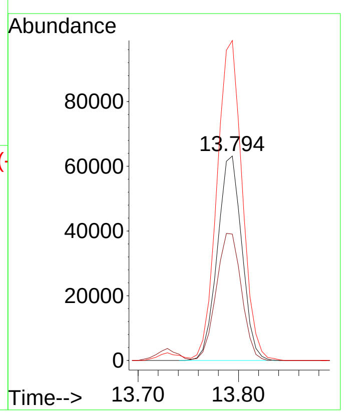
Tgt Ion:173 Resp:   10705
Ion  Ratio   Lower   Upper
173  100
175   49.1    24.1    72.2
254    0.0     0.0     0.0
```






```
#72
1,4-Dichlorobenzene-d4
Concen:   50.000 ug/l
RT:  13.794 min  Scan# 2013
Delta R.T.  0.006 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

Tgt Ion:152 Resp:  106718
Ion  Ratio   Lower   Upper
152  100
115   64.4    32.2    96.6
150  161.3     0.0   348.6
```



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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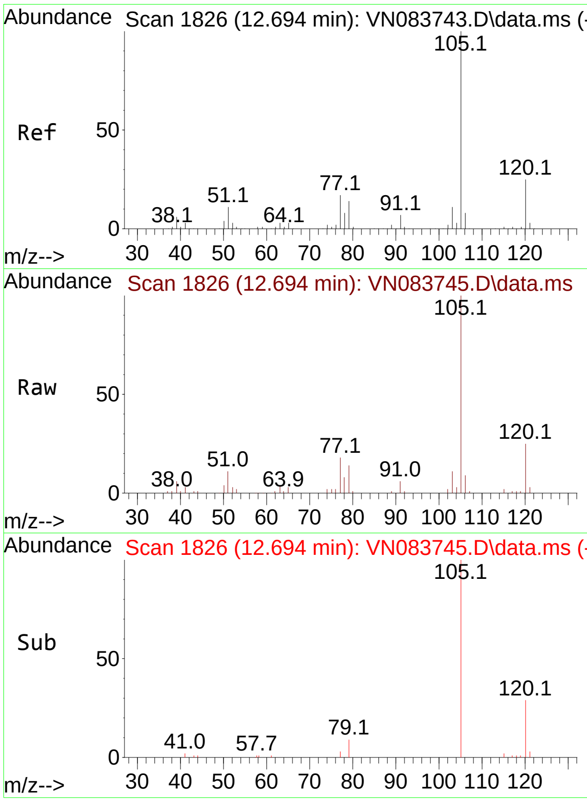
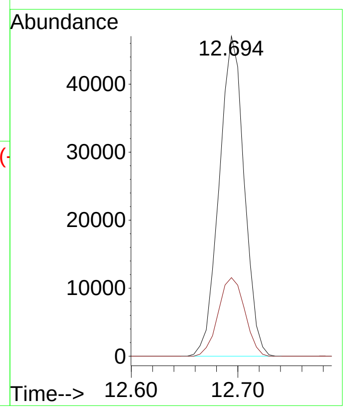
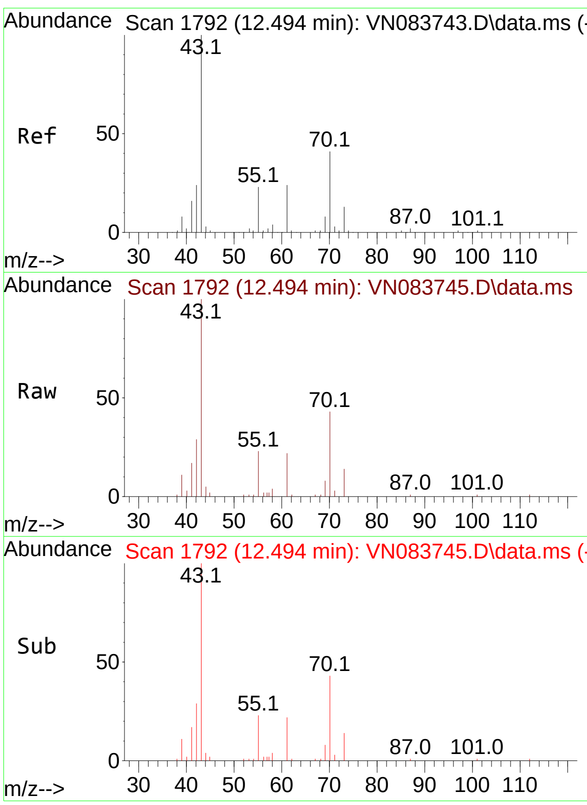


#73
Isopropylbenzene
Concen: 9.296 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:105 Resp: 7675

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.6	37.8

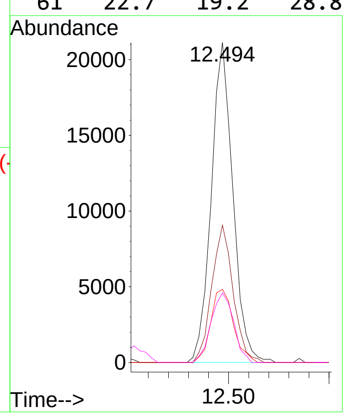


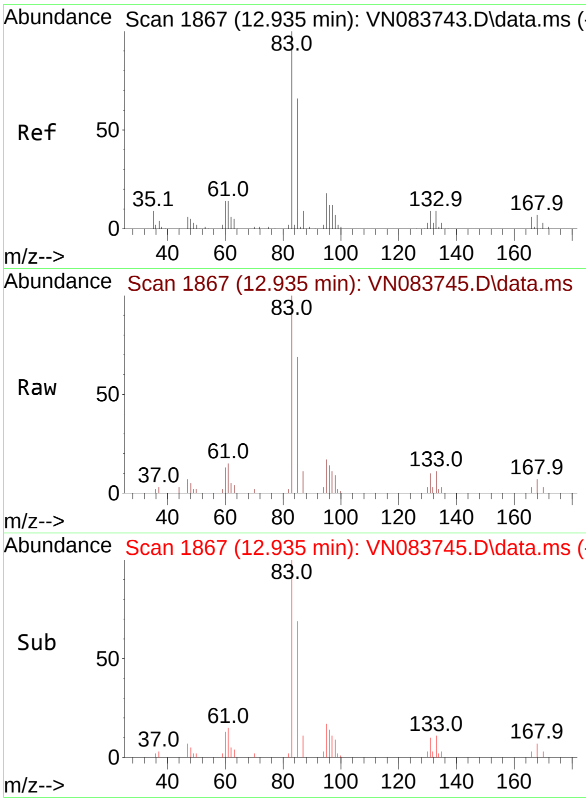


#74
N-amyl acetate
Concen: 8.982 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 43 Resp: 31640

Ion	Ratio	Lower	Upper
43	100		
70	42.3	34.5	51.7
55	24.0	18.6	28.0
61	22.7	19.2	28.8

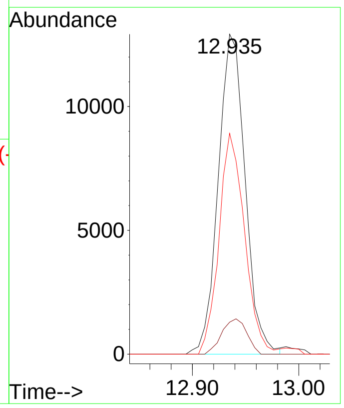




#75
1,1,2,2-Tetrachloroethane
Concen: 9.365 ug/l
RT: 12.935 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 83 Resp: 22718

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.2	15.6
85	65.5	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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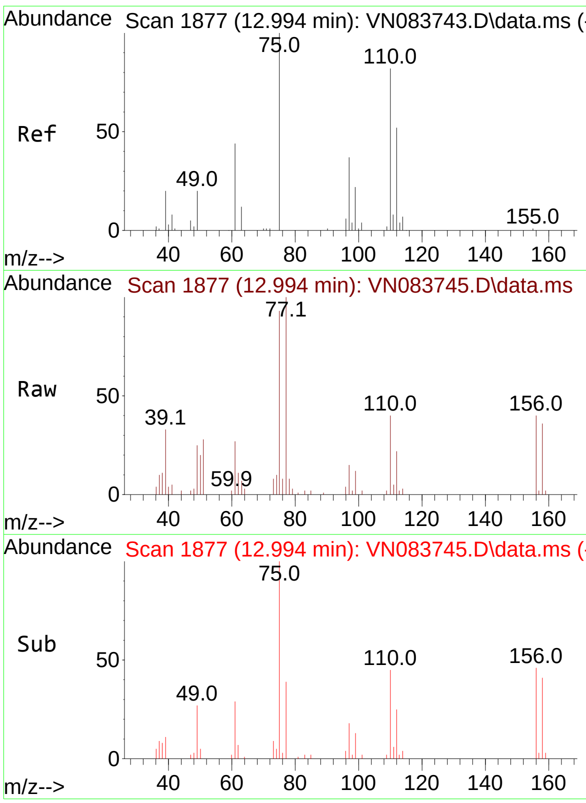
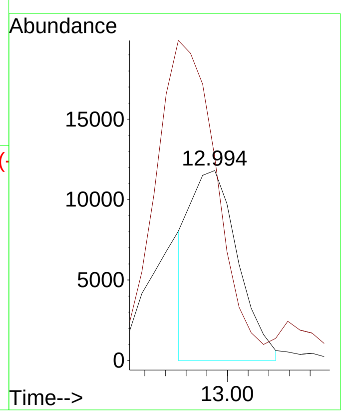
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

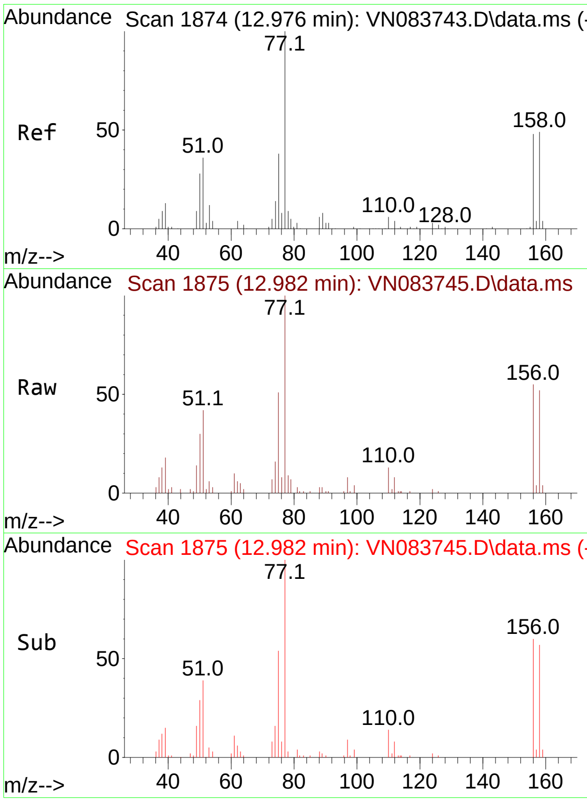


#76
1,2,3-Trichloropropane
Concen: 8.895 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 75 Resp: 19154

Ion	Ratio	Lower	Upper
75	100		
77	216.5	95.2	285.6

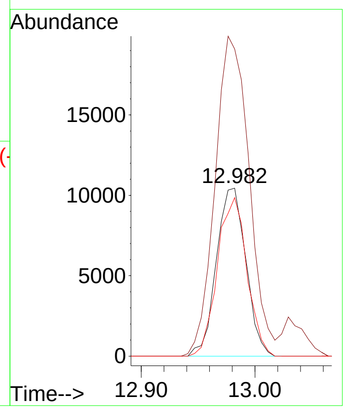




#77
Bromobenzene
Concen: 9.489 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:156 Resp: 1885

Ion	Ratio	Lower	Upper
156	100		
77	219.9	114.3	343.1
158	94.4	48.9	146.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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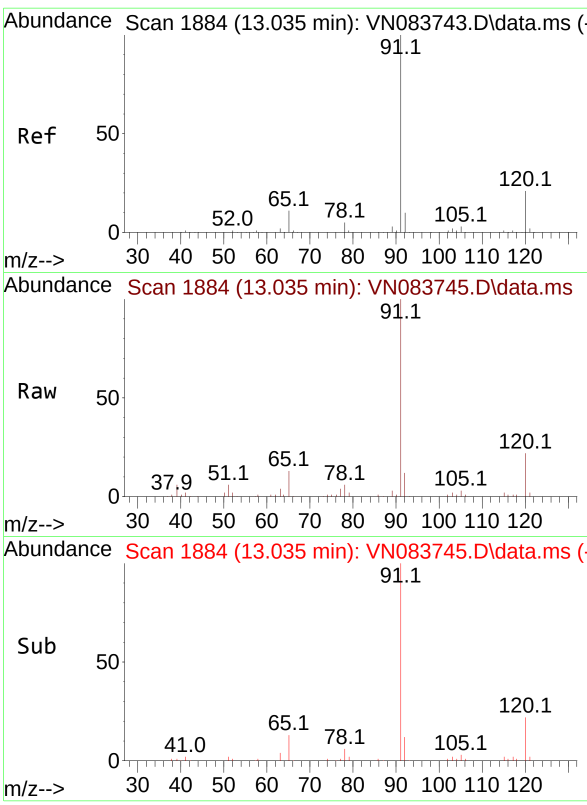
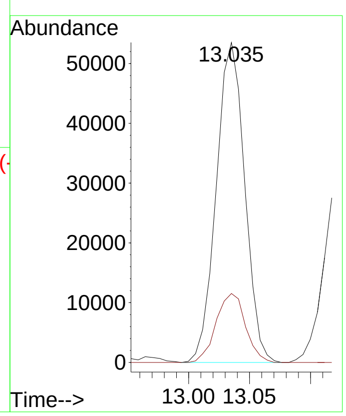
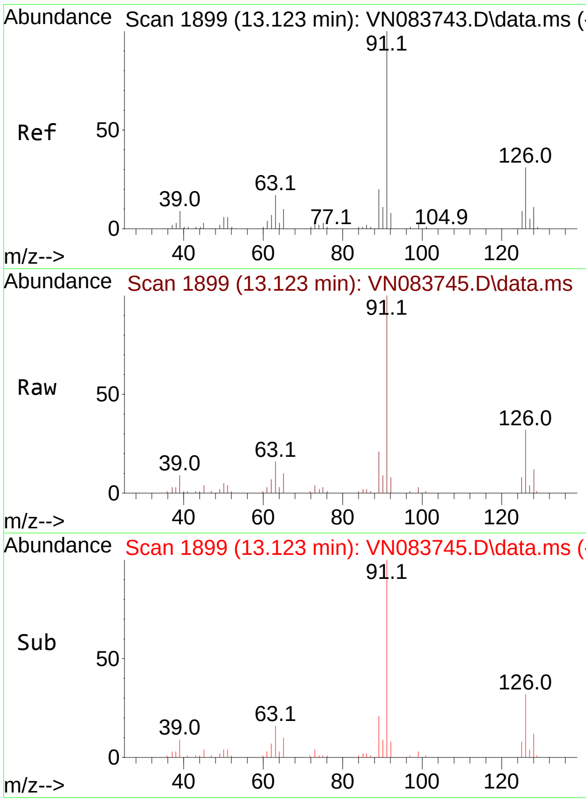


#78
n-propylbenzene
Concen: 9.052 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 91 Resp: 86960

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0





#79
2-Chlorotoluene
Concen: 9.464 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 91 Resp: 5798

Ion	Ratio	Lower	Upper
91	100		
126	30.6	15.4	46.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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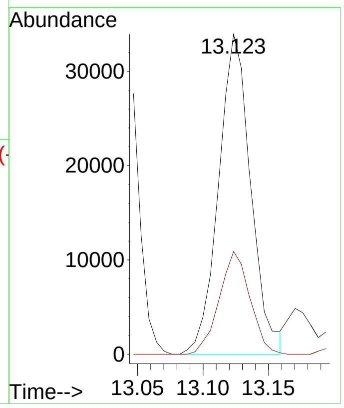
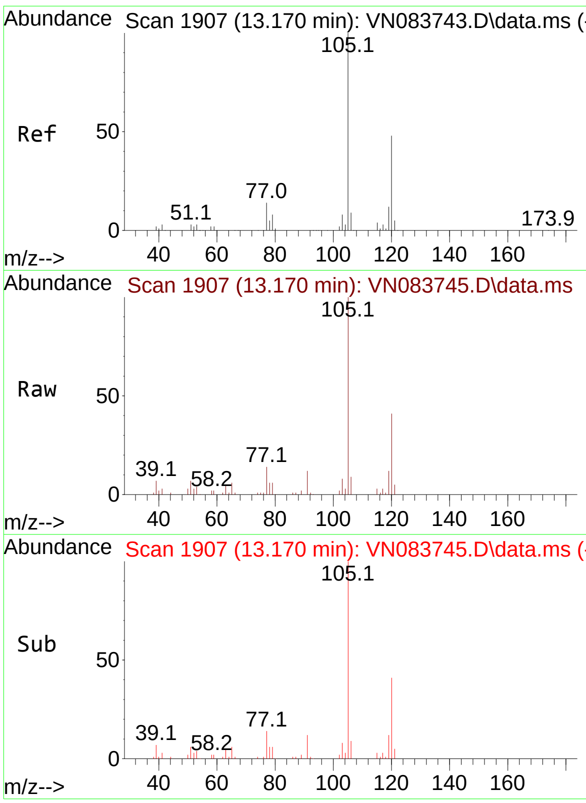
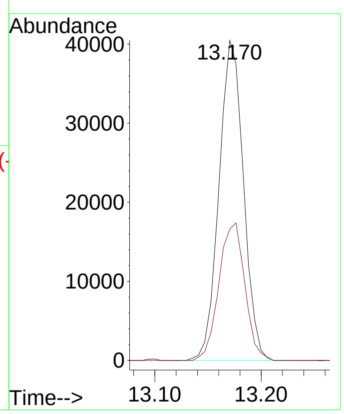




#80
1,3,5-Trimethylbenzene
Concen: 9.286 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:105 Resp: 64636

Ion	Ratio	Lower	Upper
105	100		
120	45.5	23.4	70.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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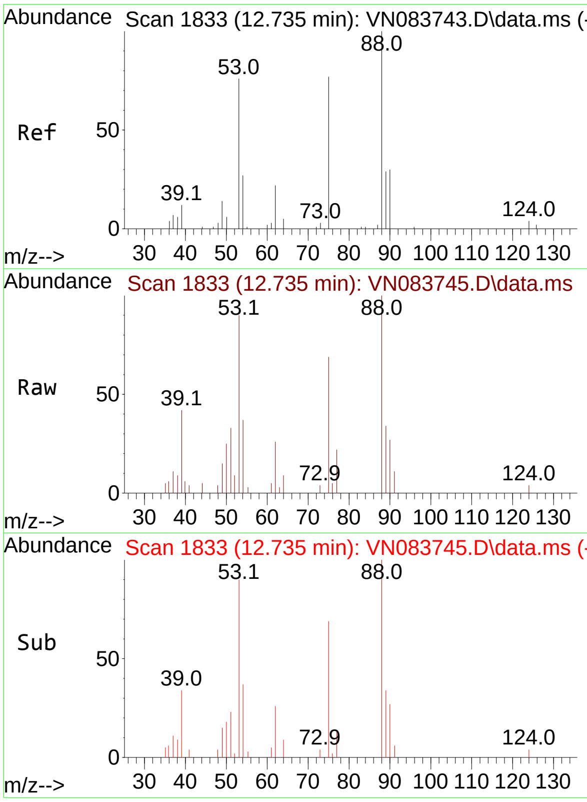
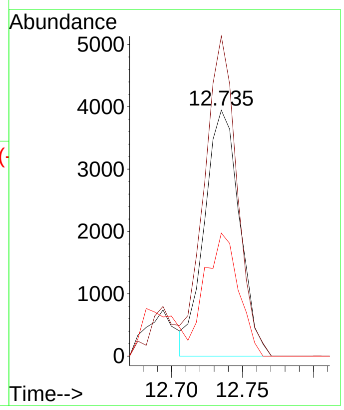
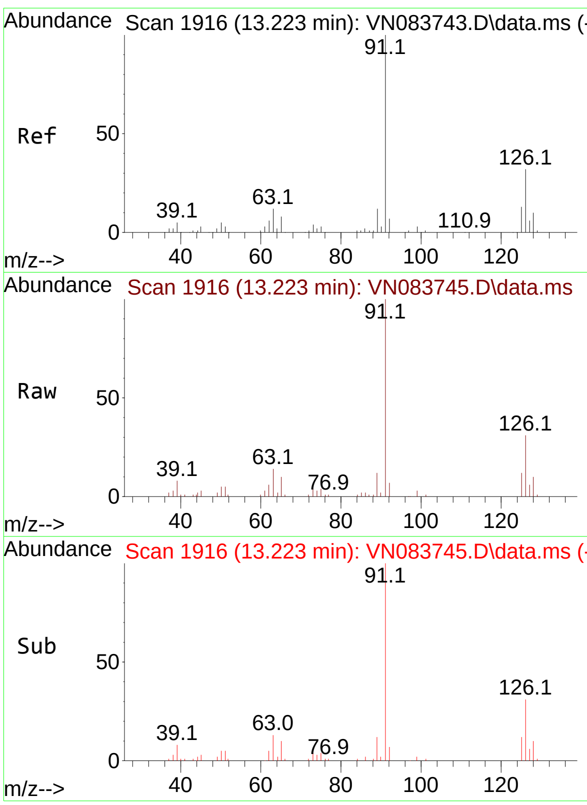


#81
trans-1,4-Dichloro-2-butene
Concen: 8.269 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 75 Resp: 679

Ion	Ratio	Lower	Upper
75	100		
53	121.1	81.2	121.8
89	47.4	35.7	53.5

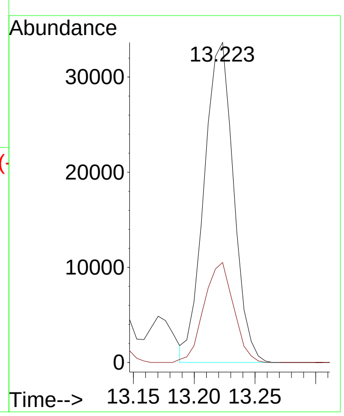


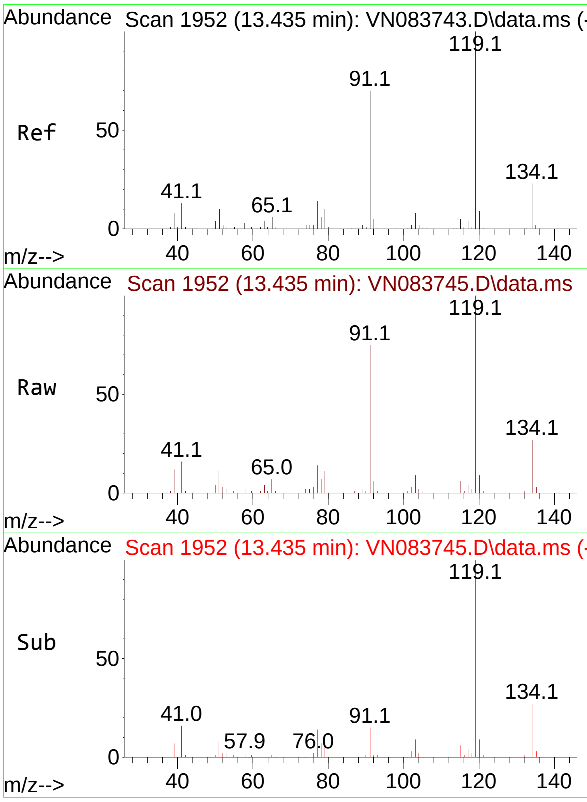


#82
4-Chlorotoluene
Concen: 9.268 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 91 Resp: 56980

Ion	Ratio	Lower	Upper
91	100		
126	31.2	15.4	46.2





#83
tert-Butylbenzene
Concen: 9.207 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:119 Resp: 5606

Ion	Ratio	Lower	Upper
119	100		
91	70.8	34.5	103.6
134	27.7	12.8	38.4

Instrument : MSVOA_N
ClientSampleId : VSTDICC010

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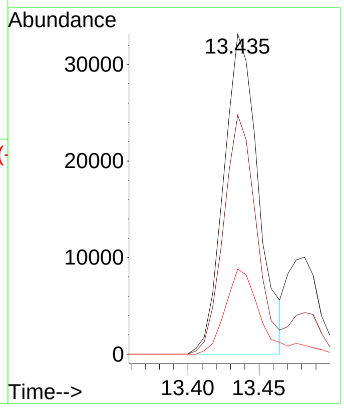
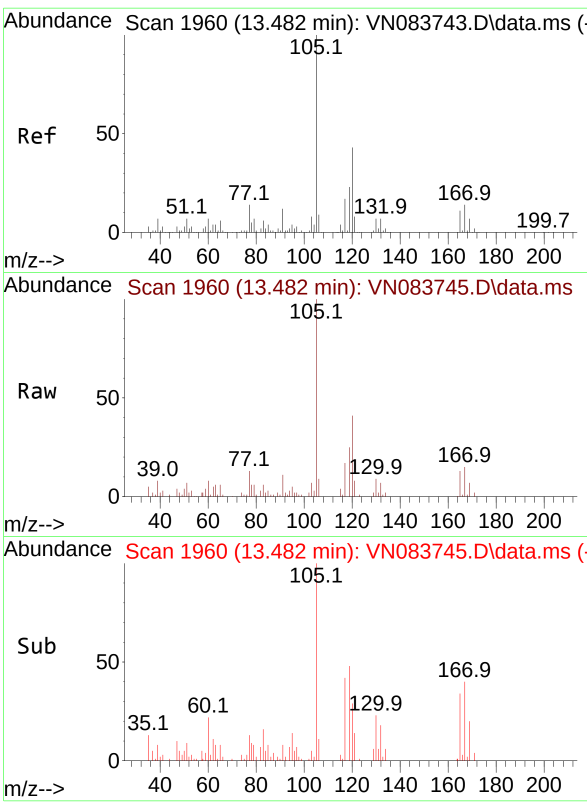
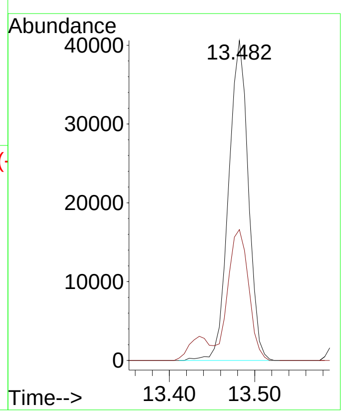




#84
1,2,4-Trimethylbenzene
Concen: 9.336 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:105 Resp: 65280

Ion	Ratio	Lower	Upper
105	100		
120	42.7	21.8	65.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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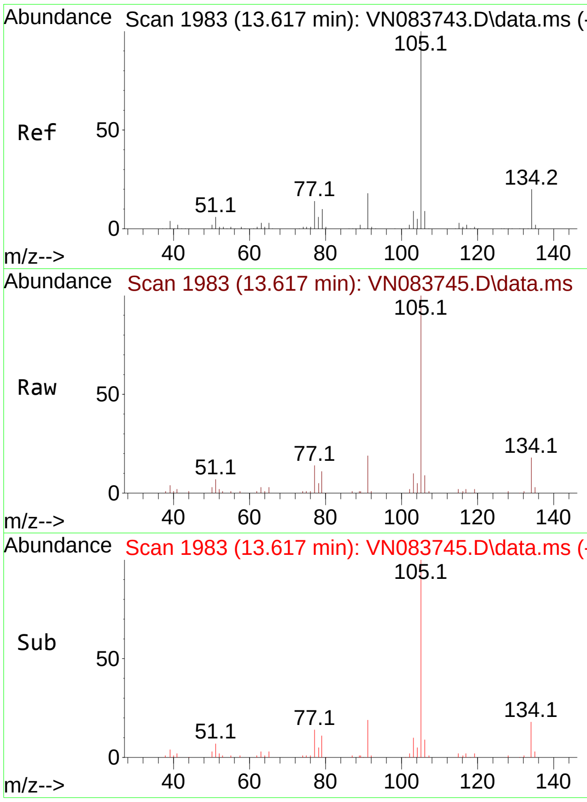
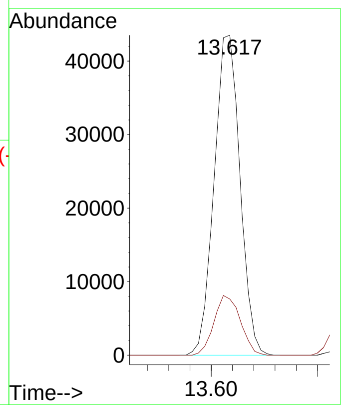
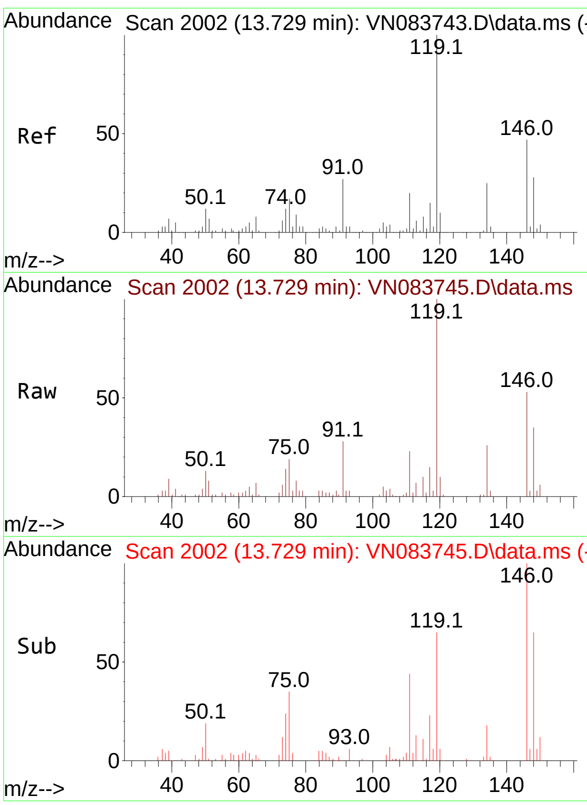



```
#85
sec-Butylbenzene
Concen:    9.085 ug/l
RT:  13.617 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

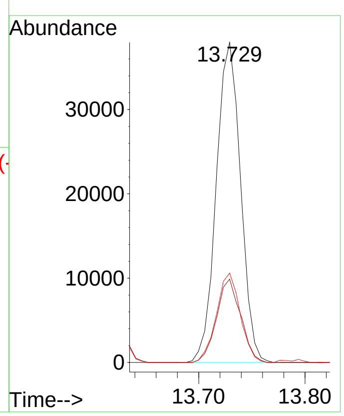
Tgt Ion:105 Resp:   7338
Ion  Ratio  Lower  Upper
105  100
134   19.0    9.7   29.1
```






```
#86
p-Isopropyltoluene
Concen:    8.916 ug/l
RT:  13.729 min  Scan# 2002
Delta R.T.  -0.000 min
Lab File:   VN083745.D
Acq: 10 Sep 2024  10:20

Tgt Ion:119 Resp:   60366
Ion  Ratio  Lower  Upper
119  100
134   25.8   12.8   38.3
 91   27.3   12.9   38.7
```



Instrument : MSVOA_N
ClientSampleId : VSTDICC010

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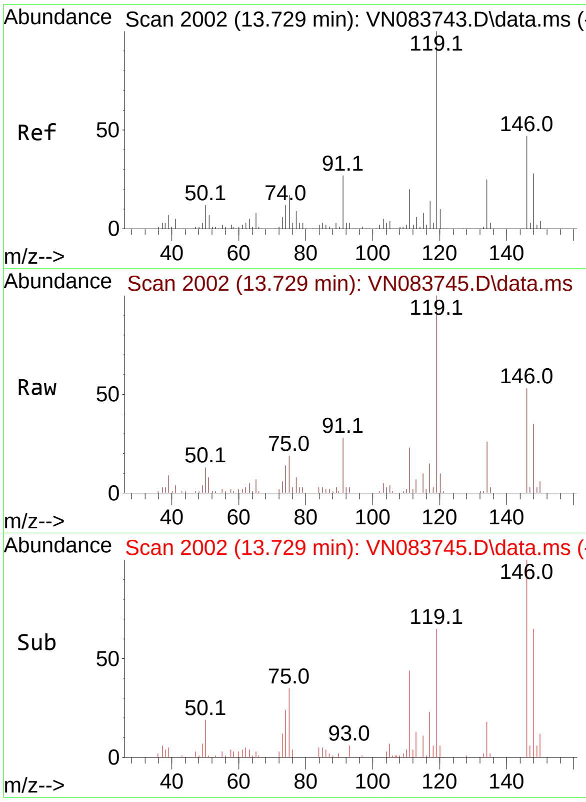
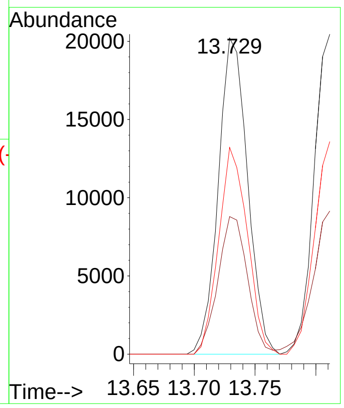
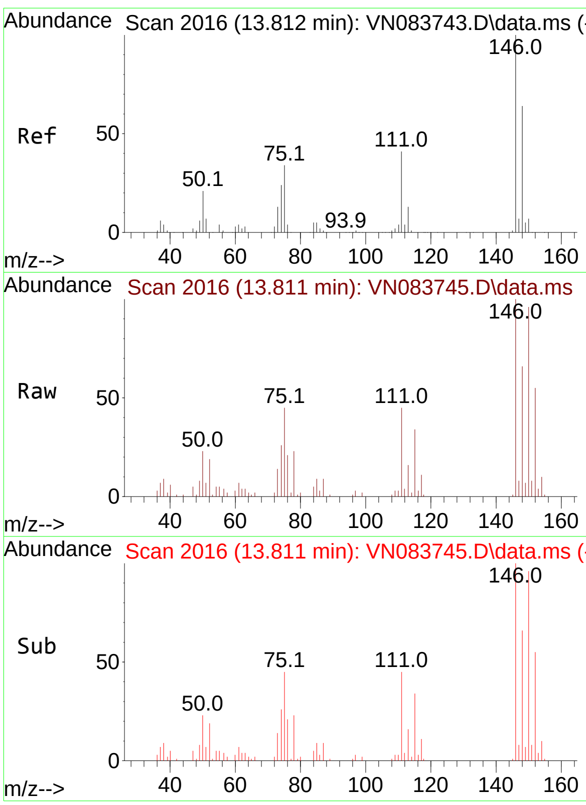


#87
1,3-Dichlorobenzene
Concen: 9.053 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:146 Resp: 3395

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.7	65.1
148	64.3	31.7	95.1

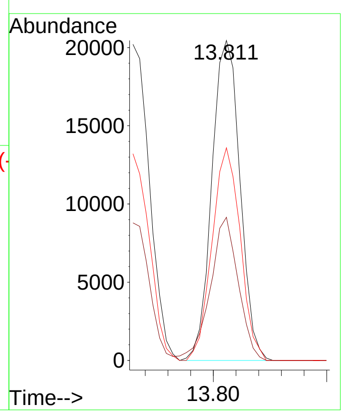


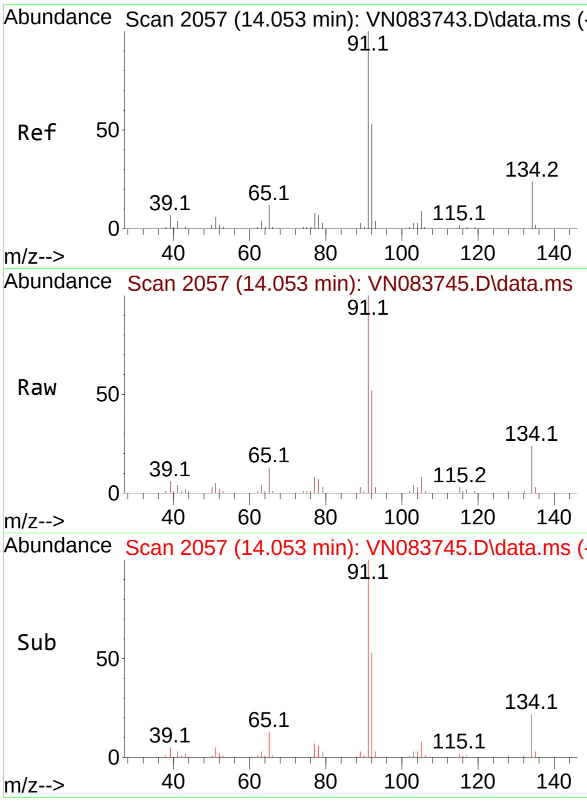


#88
1,4-Dichlorobenzene
Concen: 9.293 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:146 Resp: 35292

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.3	64.0
148	66.7	32.0	96.2





#89
n-Butylbenzene
Concen: 8.968 ug/l
RT: 14.053 min   Scan# 20
Delta R.T.   -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024   10:20

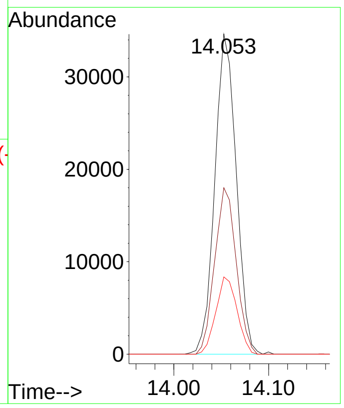
Tgt Ion: 91 Resp: 5451

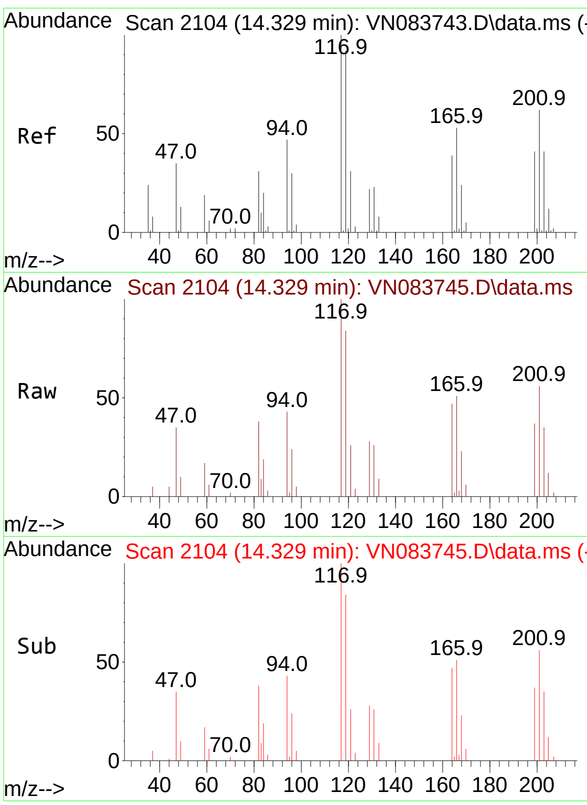
Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.7	80.1
134	23.8	12.2	36.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone   09/11/2024
Supervised By :Semsettin Yesilyurt   09/11/2024

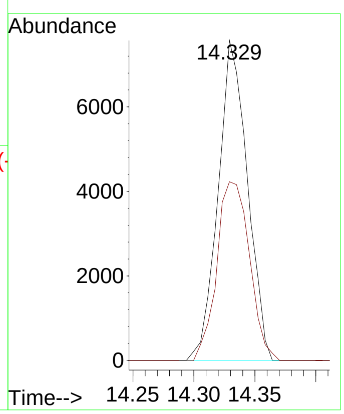


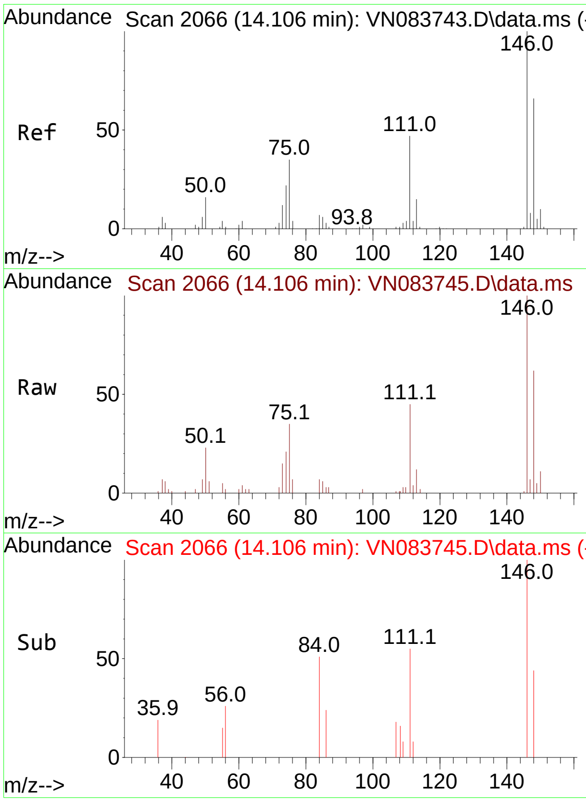


#90
Hexachloroethane
Concen: 9.298 ug/l
RT: 14.329 min   Scan# 2104
Delta R.T.   -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024   10:20

Tgt Ion:117 Resp: 12655

Ion	Ratio	Lower	Upper
117	100		
201	62.4	32.8	98.3

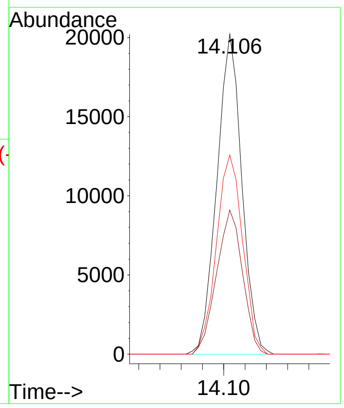




#91
1,2-Dichlorobenzene
Concen: 9.096 ug/l
RT: 14.106 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

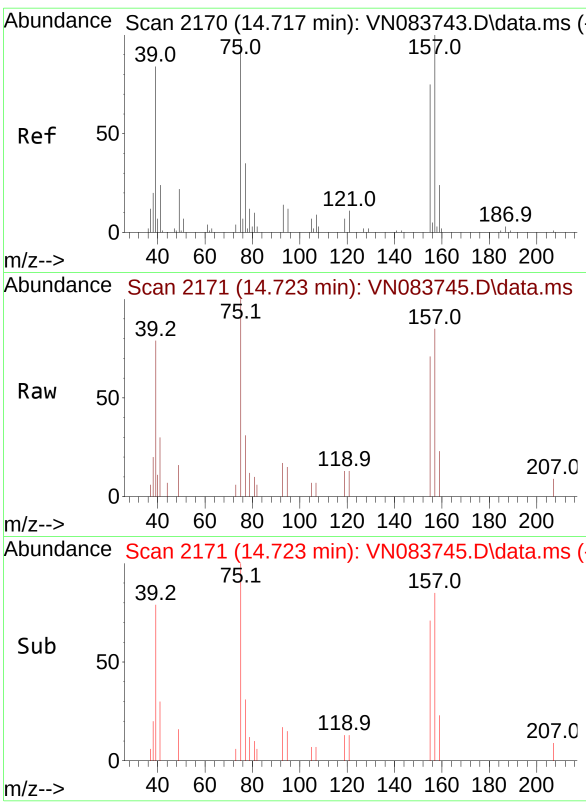
Tgt Ion:146 Resp: 3292

Ion	Ratio	Lower	Upper
146	100		
111	47.0	22.8	68.3
148	65.5	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

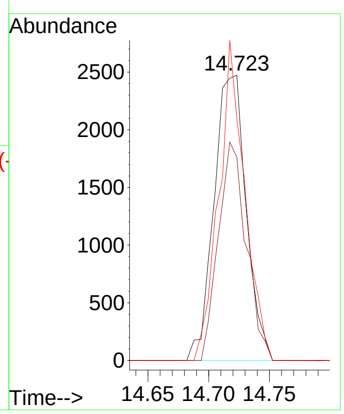
Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

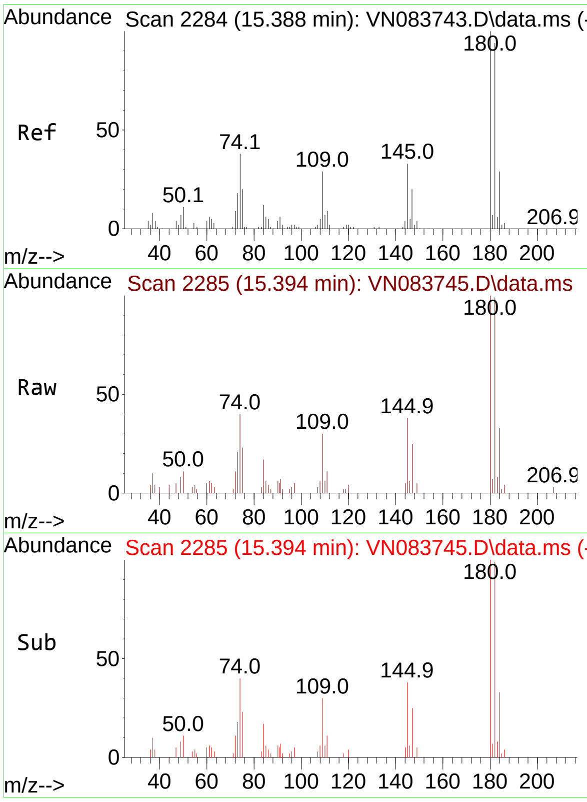


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.434 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion: 75 Resp: 4562

Ion	Ratio	Lower	Upper
75	100		
155	66.5	35.9	107.7
157	90.3	47.5	142.5

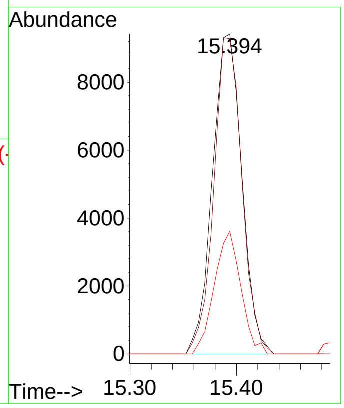




#93
1,2,4-Trichlorobenzene
Concen: 9.314 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:180 Resp: 1809

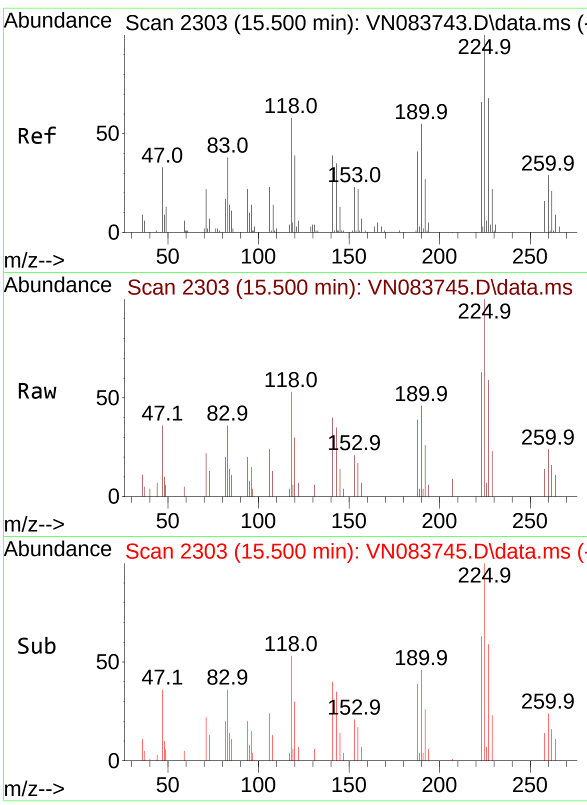
Ion	Ratio	Lower	Upper
180	100		
182	94.4	48.1	144.3
145	34.6	16.9	50.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

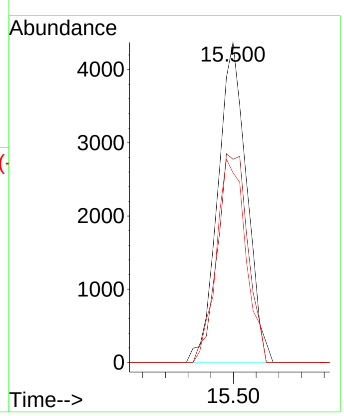
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

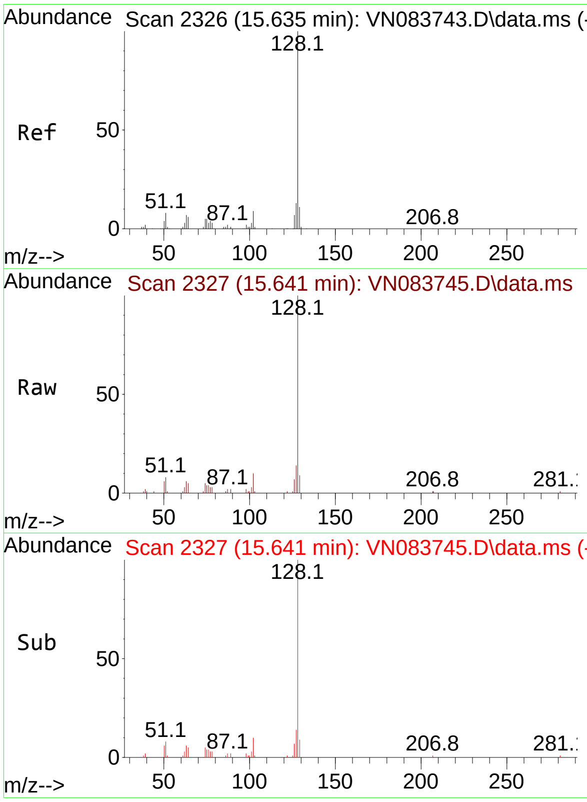


#94
Hexachlorobutadiene
Concen: 9.355 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:225 Resp: 7717

Ion	Ratio	Lower	Upper
225	100		
223	69.3	31.9	95.5
227	64.7	32.0	96.2

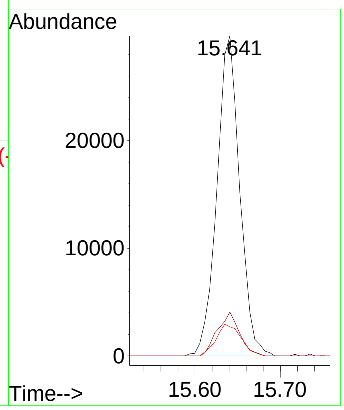




#95
Naphthalene
Concen: 9.368 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

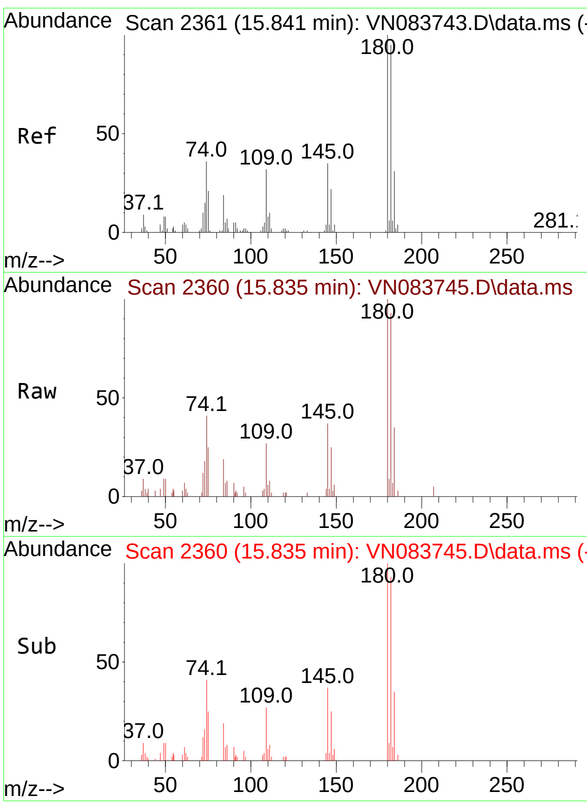
Tgt Ion:128 Resp: 5536

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.2
129	10.8	8.7	13.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

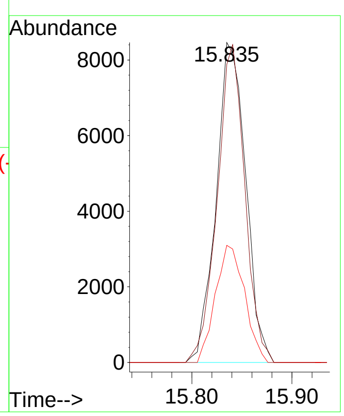
Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#96
1,2,3-Trichlorobenzene
Concen: 9.345 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN083745.D
Acq: 10 Sep 2024 10:20

Tgt Ion:180 Resp: 17348

Ion	Ratio	Lower	Upper
180	100		
182	93.0	47.1	141.4
145	36.1	17.8	53.5



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083746.D
Acq On : 10 Sep 2024 10:44
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:56:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.224	168	160063	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	280097	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	235735	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	107014	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.571	65	9581	3.970 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	7.940%#	
35) Dibromofluoromethane	8.159	113	7953	4.435 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	8.880%#	
50) Toluene-d8	10.565	98	21320	3.439 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	6.880%#	
62) 4-Bromofluorobenzene	12.847	95	10808	4.226 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	8.460%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.124	85	8818	4.744 ug/l	92
3) Chloromethane	2.359	50	10519	3.837 ug/l	99
4) Vinyl Chloride	2.518	62	9914	4.866 ug/l	97
5) Bromomethane	2.900	94	6285	5.372 ug/l #	76
6) Chloroethane	3.059	64	7426	5.254 ug/l	99
7) Trichlorofluoromethane	3.465	101	17145	4.957 ug/l	100
8) Diethyl Ether	3.953	74	5929	5.114 ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.347	101	9276	5.060 ug/l	99
10) Methyl Iodide	4.577	142	11474	4.921 ug/l	92
11) Tert butyl alcohol	5.536	59	8809m	27.256 ug/l	
12) 1,1-Dichloroethene	4.324	96	8914	5.149 ug/l #	78
13) Acrolein	4.177	56	8866	27.803 ug/l	100
14) Allyl chloride	5.012	41	14620	4.739 ug/l	95
15) Acrylonitrile	5.718	53	22170	25.224 ug/l	97
16) Acetone	4.436	43	22641	23.401 ug/l	97
17) Carbon Disulfide	4.694	76	23486	4.850 ug/l #	90
18) Methyl Acetate	5.030	43	12028	4.269 ug/l #	52
19) Methyl tert-butyl Ether	5.794	73	30995	4.948 ug/l	96
20) Methylene Chloride	5.271	84	9932	5.016 ug/l	97
21) trans-1,2-Dichloroethene	5.771	96	9883	5.327 ug/l	89
22) Diisopropyl ether	6.671	45	31379	4.941 ug/l #	94
23) Vinyl Acetate	6.600	43	111530	23.983 ug/l	96
24) 1,1-Dichloroethane	6.559	63	18651	5.098 ug/l	97
25) 2-Butanone	7.488	43	30455	23.949 ug/l	98
26) 2,2-Dichloropropane	7.482	77	15899	4.719 ug/l	98
27) cis-1,2-Dichloroethene	7.482	96	10345	4.697 ug/l	93
28) Bromochloromethane	7.812	49	8604	5.585 ug/l #	93
29) Tetrahydrofuran	7.835	42	18481	24.578 ug/l	97
30) Chloroform	7.965	83	19593	5.044 ug/l #	82
31) Cyclohexane	8.253	56	19910	5.708 ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	18099	5.068 ug/l #	88
36) 1,1-Dichloropropene	8.371	75	13233	4.903 ug/l	99
37) Ethyl Acetate	7.559	43	12012	4.903 ug/l	97
38) Carbon Tetrachloride	8.359	117	15245	4.979 ug/l	98
39) Methylcyclohexane	9.600	83	14125	4.598 ug/l	87
40) Benzene	8.600	78	38828	4.780 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083746.D
Acq On : 10 Sep 2024 10:44
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 01:56:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.782	41	6706	4.628 ug/l		93
42) 1,2-Dichloroethane	8.665	62	14954	4.926 ug/l		98
43) Isopropyl Acetate	8.688	43	21656	4.878 ug/l		98
44) Trichloroethene	9.353	130	8567	4.554 ug/l		97
45) 1,2-Dichloropropane	9.623	63	9662	4.921 ug/l		95
46) Dibromomethane	9.706	93	6877	5.001 ug/l		99
47) Bromodichloromethane	9.888	83	14350	4.821 ug/l		98
48) Methyl methacrylate	9.682	41	10187	4.837 ug/l		97
49) 1,4-Dioxane	9.700	88	3281	94.692 ug/l	#	96
51) 4-Methyl-2-Pentanone	10.447	43	58309	24.128 ug/l		98
52) Toluene	10.629	92	24590	4.949 ug/l		95
53) t-1,3-Dichloropropene	10.835	75	14280	4.733 ug/l		98
54) cis-1,3-Dichloropropene	10.306	75	14921	4.709 ug/l		94
55) 1,1,2-Trichloroethane	11.018	97	9040	4.873 ug/l		97
56) Ethyl methacrylate	10.870	69	13310	4.664 ug/l		97
57) 1,3-Dichloropropane	11.165	76	16337	5.124 ug/l		96
58) 2-Chloroethyl Vinyl ether	10.159	63	24698	24.016 ug/l		99
59) 2-Hexanone	11.194	43	43752	24.475 ug/l		95
60) Dibromochloromethane	11.353	129	9573	4.611 ug/l		99
61) 1,2-Dibromoethane	11.470	107	8641	4.671 ug/l		98
64) Tetrachloroethene	11.100	164	8021	5.116 ug/l		85
65) Chlorobenzene	11.888	112	26054	4.973 ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.959	131	8646	4.760 ug/l		94
67) Ethyl Benzene	11.965	91	44539	4.785 ug/l		97
68) m/p-Xylenes	12.070	106	32437	9.387 ug/l		99
69) o-Xylene	12.400	106	15741	4.706 ug/l		96
70) Styrene	12.412	104	25276	4.604 ug/l		96
71) Bromoform	12.576	173	6062	4.953 ug/l	#	98
73) Isopropylbenzene	12.694	105	40756	4.923 ug/l		95
74) N-amyl acetate	12.494	43	17318	4.903 ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	12643	5.197 ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	11052m	5.118 ug/l		
77) Bromobenzene	12.976	156	10137	5.087 ug/l		97
78) n-propylbenzene	13.035	91	46229	4.799 ug/l		100
79) 2-Chlorotoluene	13.123	91	30899	5.030 ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	33407	4.786 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	4486	5.441 ug/l		92
82) 4-Chlorotoluene	13.217	91	31603	5.126 ug/l		99
83) tert-Butylbenzene	13.435	119	29174	4.777 ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	34076	4.860 ug/l		97
85) sec-Butylbenzene	13.617	105	39964	4.934 ug/l		97
86) p-Isopropyltoluene	13.729	119	33478	4.931 ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	19101	5.079 ug/l		96
88) 1,4-Dichlorobenzene	13.811	146	19522	5.126 ug/l		96
89) n-Butylbenzene	14.053	91	28757	4.718 ug/l		99
90) Hexachloroethane	14.335	117	6701	4.910 ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	18983	5.230 ug/l		95
92) 1,2-Dibromo-3-Chloropr...	14.723	75	2490	5.135 ug/l		91
93) 1,2,4-Trichlorobenzene	15.394	180	9707	4.983 ug/l		98
94) Hexachlorobutadiene	15.500	225	3988	4.821 ug/l		93
95) Naphthalene	15.641	128	29769	5.023 ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	9363	5.030 ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083746.D
Acq On : 10 Sep 2024 10:44
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:56:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

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

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

ICAL Form

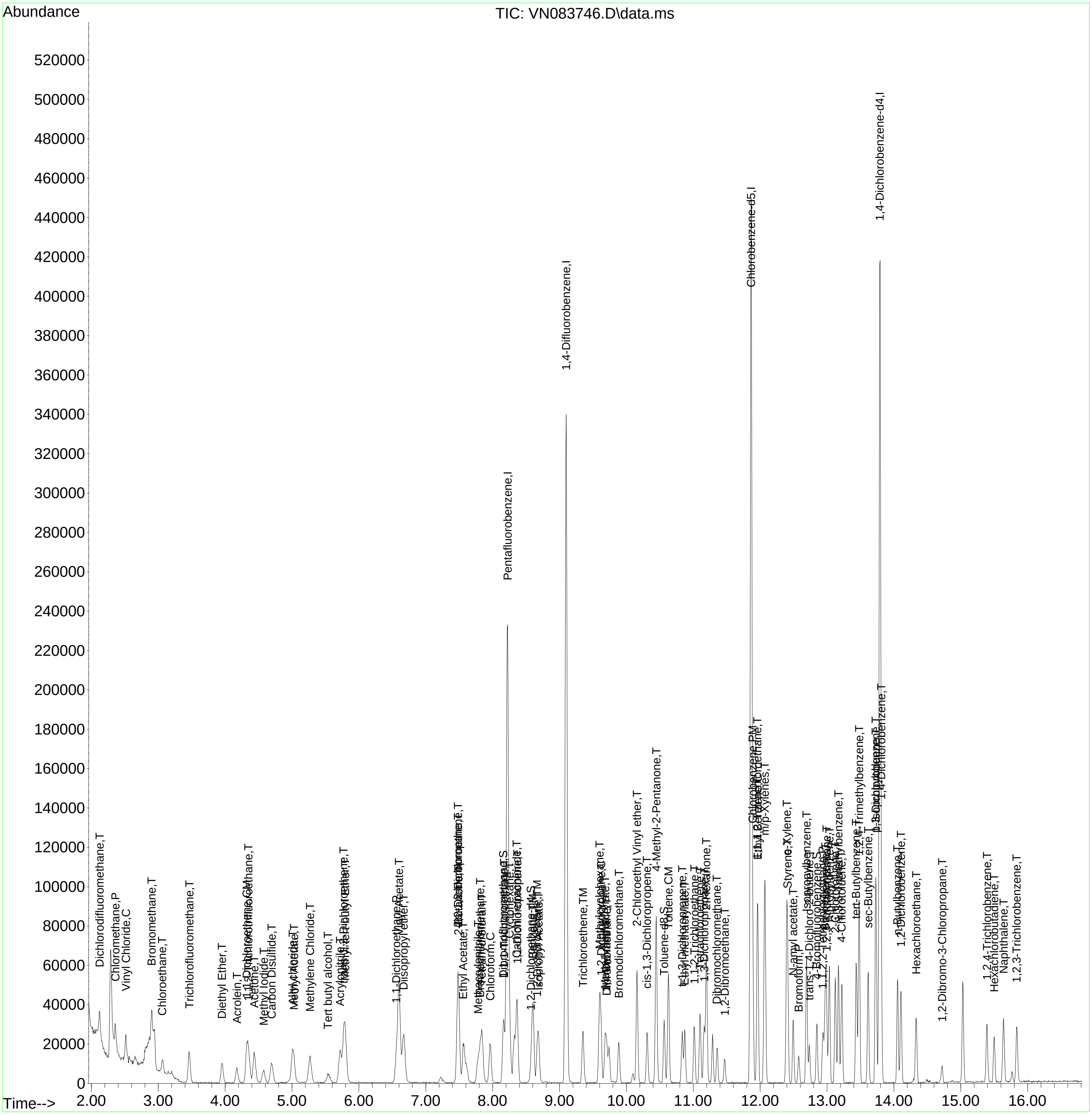
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083746.D
Acq On : 10 Sep 2024 10:44
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 01:56:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

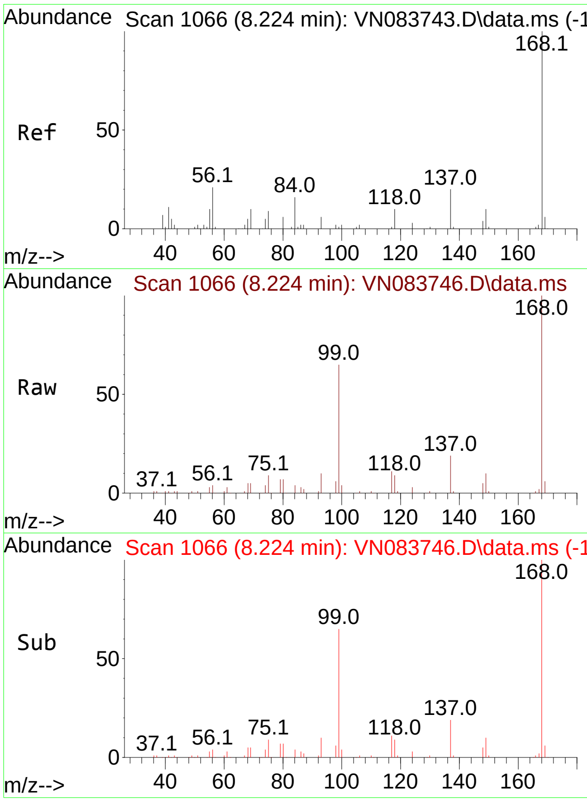
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

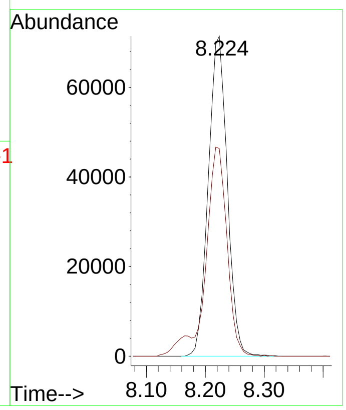
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

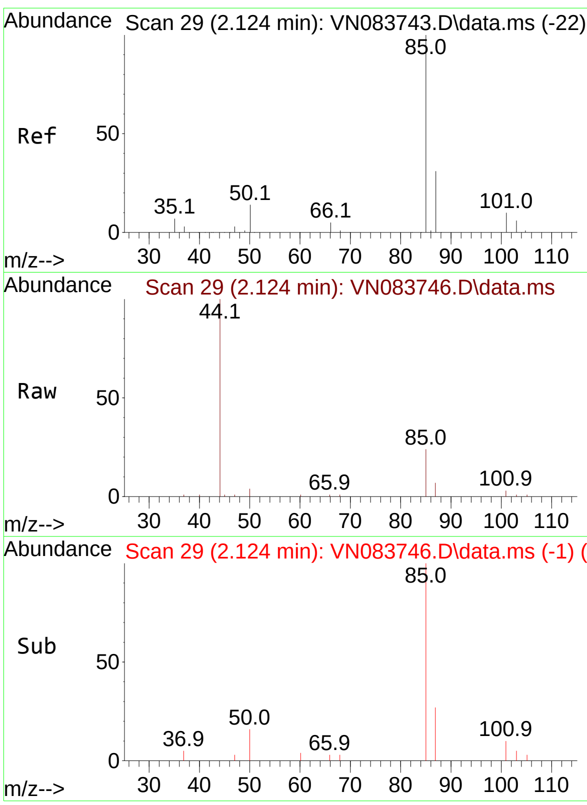


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:168 Resp: 160063

Ion	Ratio	Lower	Upper
168	100		
99	64.9	54.2	81.2

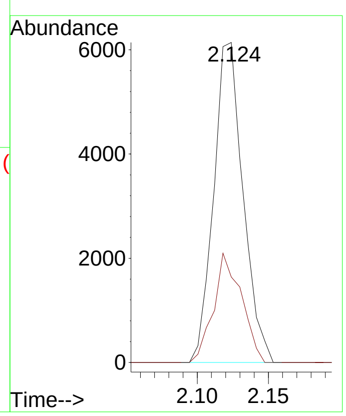


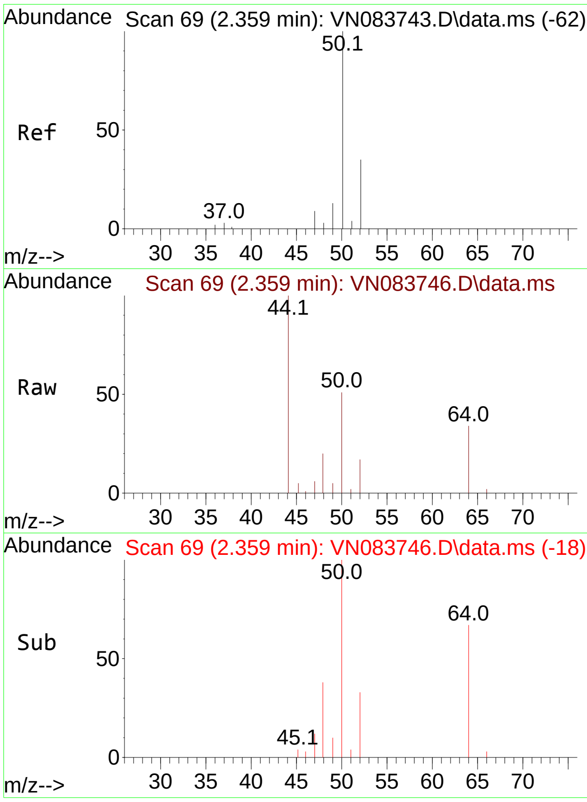


#2
Dichlorodifluoromethane
Concen: 4.744 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 85 Resp: 8818

Ion	Ratio	Lower	Upper
85	100		
87	26.7	15.7	47.0





#3
Chloromethane
Concen: 3.837 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 50 Resp: 1051

Ion	Ratio	Lower	Upper
50	100		
52	33.1	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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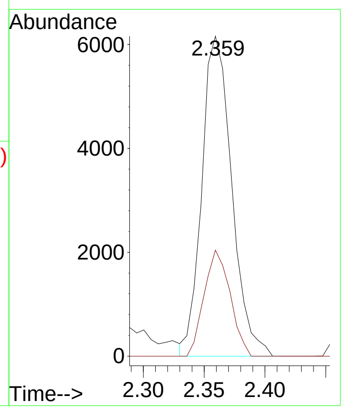
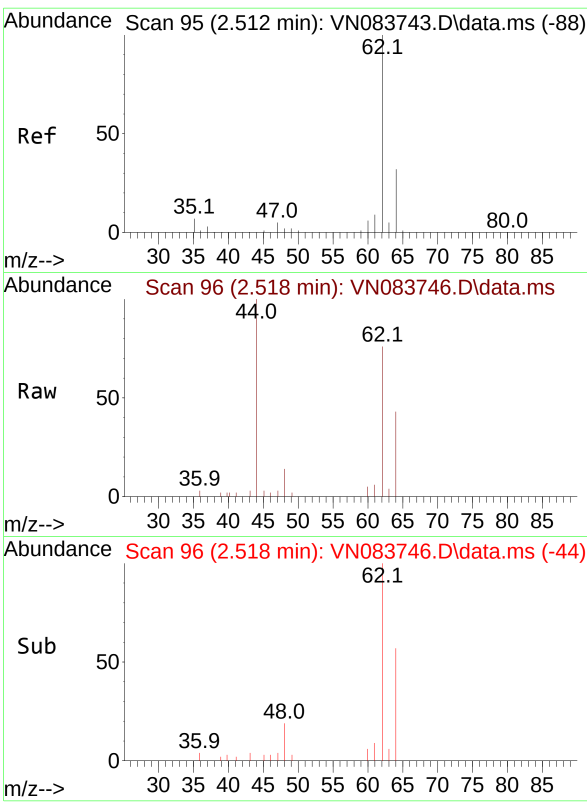


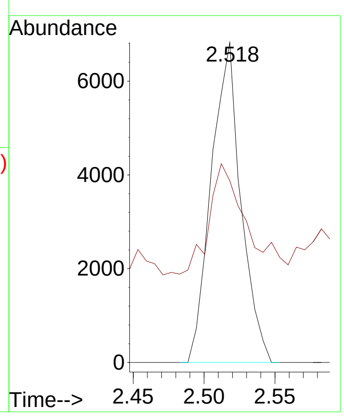
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#4
Vinyl Chloride
Concen: 4.866 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 62 Resp: 9914

Ion	Ratio	Lower	Upper
62	100		
64	29.2	24.7	37.1



Instrument :
MSVOA_N
ClientSampleId :
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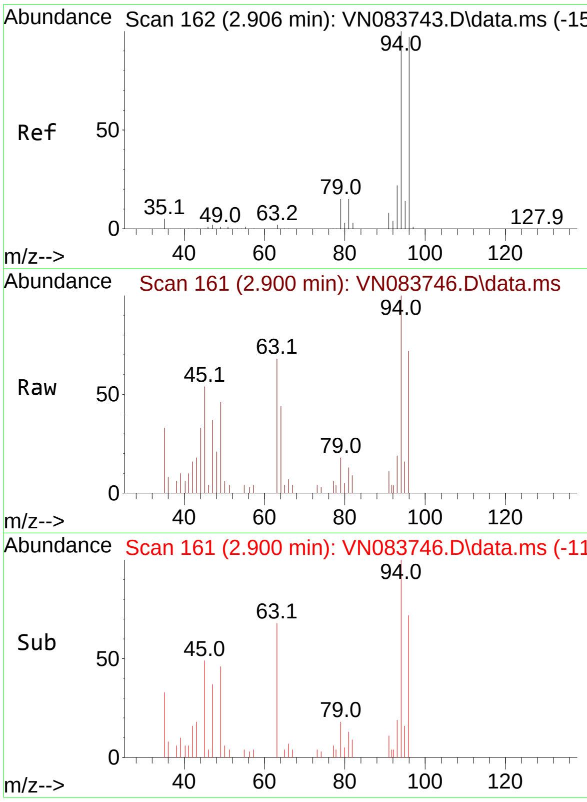
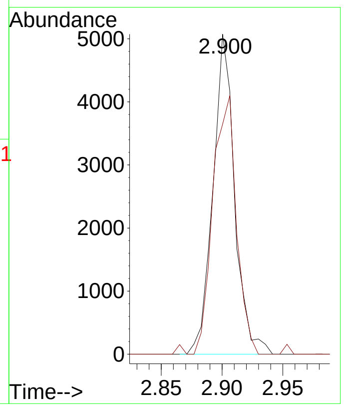
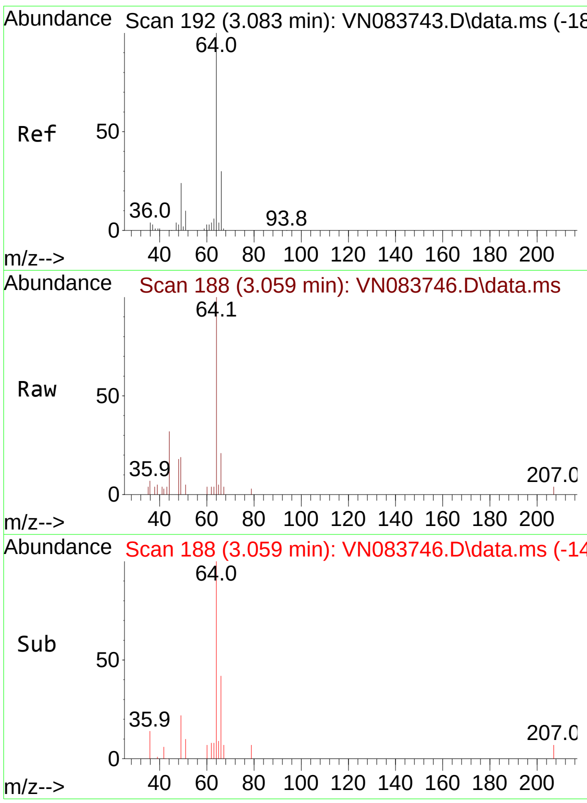
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#5
Bromomethane
Concen:    5.372 ug/l
RT:   2.900 min  Scan# 1(
Delta R.T.  -0.006 min
Lab File:   VN083746.D
Acq: 10 Sep 2024  10:44

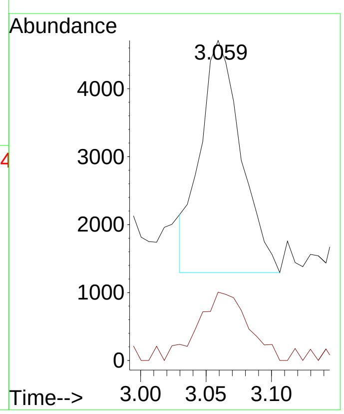
Tgt Ion: 94 Resp:    628
Ion  Ratio  Lower  Upper
 94  100
 96   71.9   76.0  114.0#
```

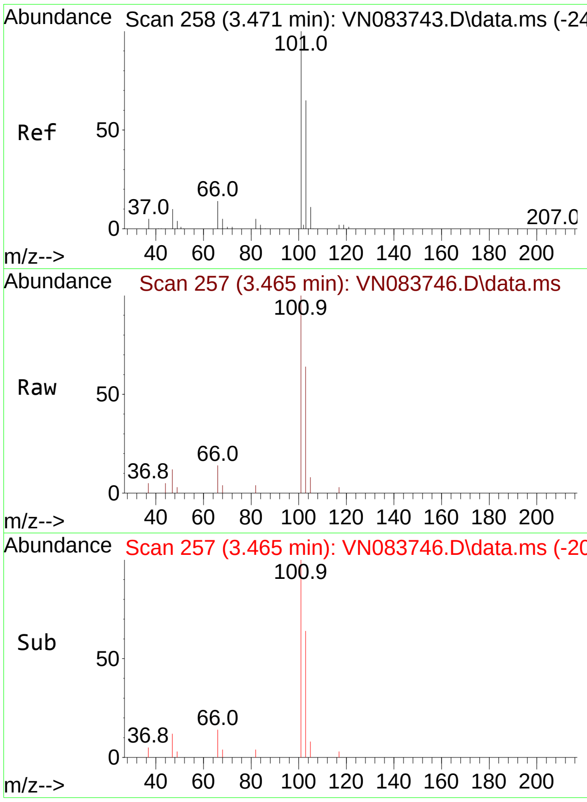





```
#6
Chloroethane
Concen:    5.254 ug/l
RT:   3.059 min  Scan# 188
Delta R.T.  -0.024 min
Lab File:   VN083746.D
Acq: 10 Sep 2024  10:44

Tgt Ion: 64 Resp:    7426
Ion  Ratio  Lower  Upper
 64  100
 66   29.4   23.9   35.9
```





#7
Trichlorofluoromethane
Concen: 4.957 ug/l
RT: 3.465 min Scan# 2!
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:101 Resp: 1714!

Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.4	77.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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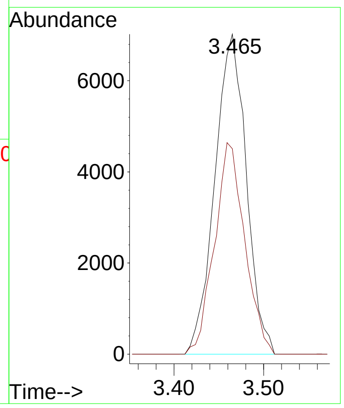

1
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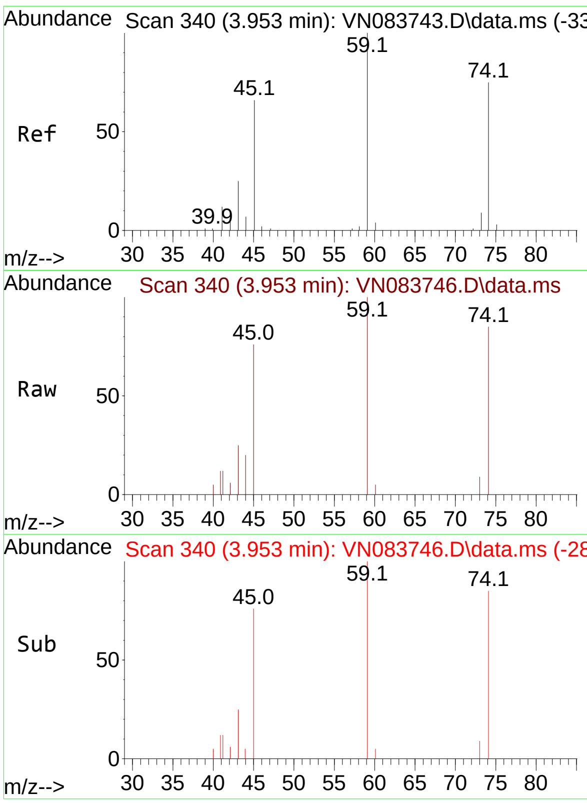
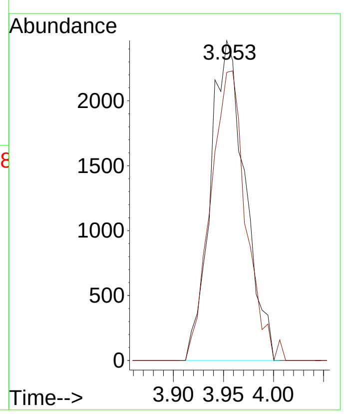
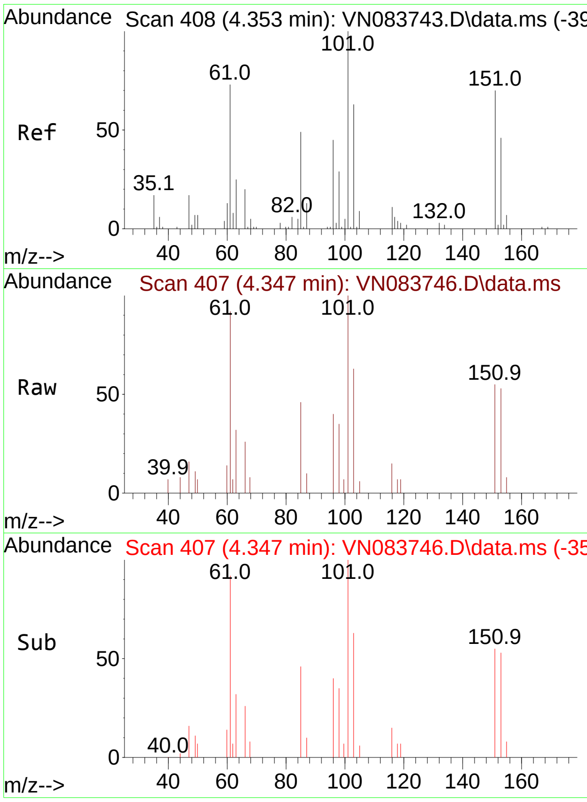


#8
Diethyl Ether
Concen: 5.114 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 74 Resp: 5929

Ion	Ratio	Lower	Upper
74	100		
45	92.0	46.7	140.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.060 ug/l
RT: 4.347 min Scan# 40
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:101 Resp: 927

Ion	Ratio	Lower	Upper
101	100		
85	46.4	36.2	54.4
151	71.0	57.7	86.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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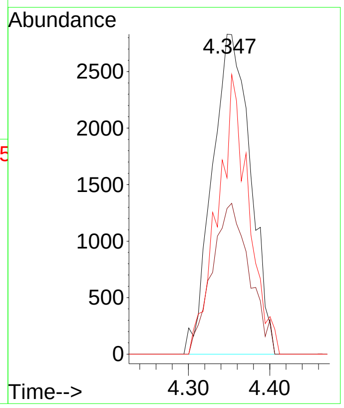
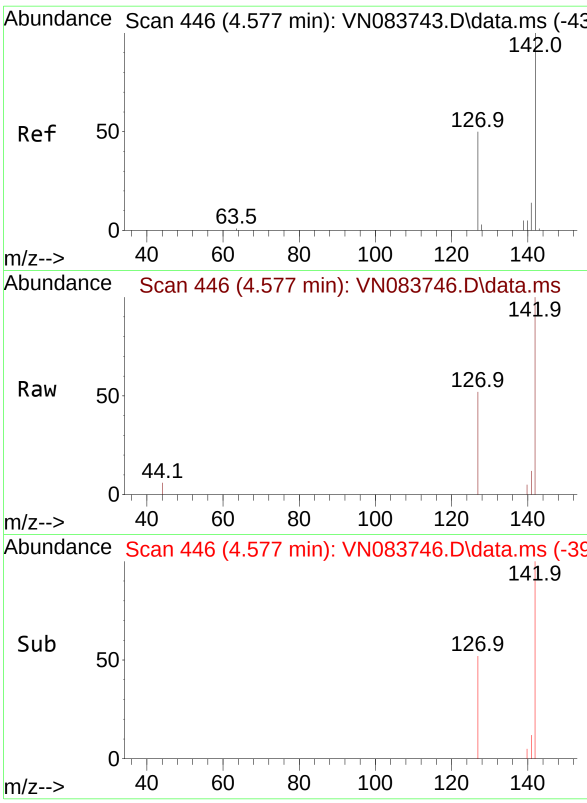
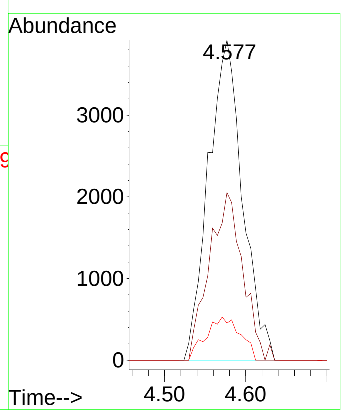




#10
Methyl Iodide
Concen: 4.921 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:142 Resp: 11474

Ion	Ratio	Lower	Upper
142	100		
127	52.4	37.5	56.3
141	11.6	11.0	16.4



Instrument :
MSVOA_N
ClientSampleId :
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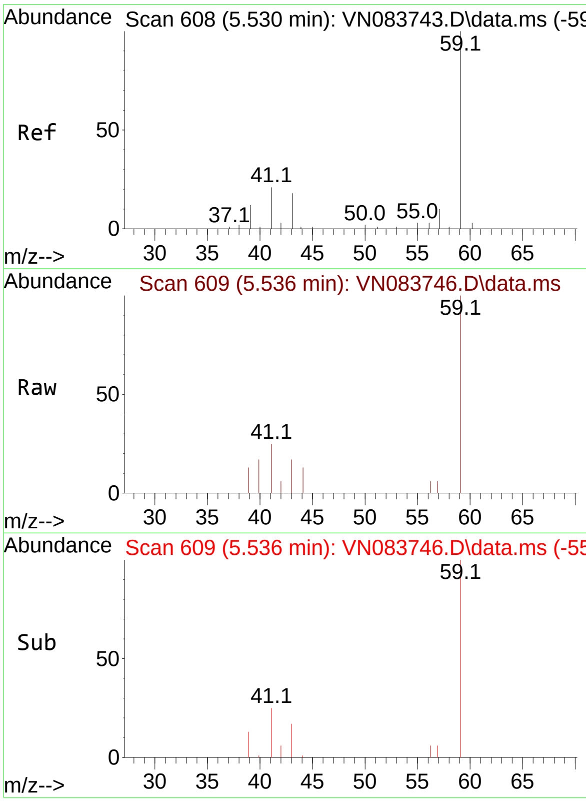
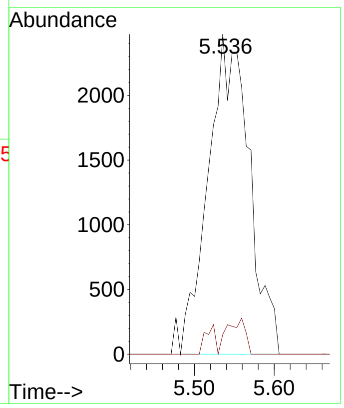
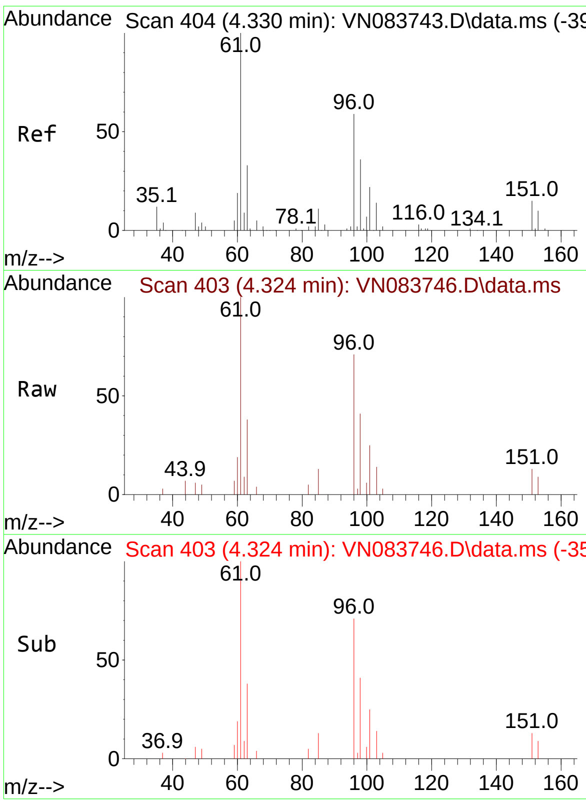


#11
Tert butyl alcohol
Concen: 27.256 ug/l m
RT: 5.536 min Scan# 6(
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 59 Resp: 880(

Ion	Ratio	Lower	Upper
59	100		
57	2.2	8.7	13.1#

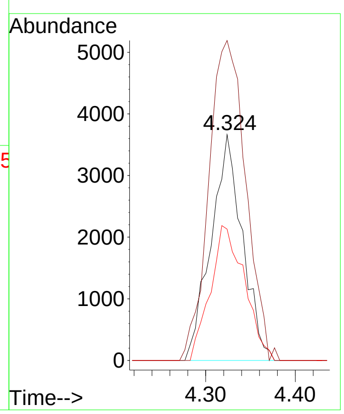


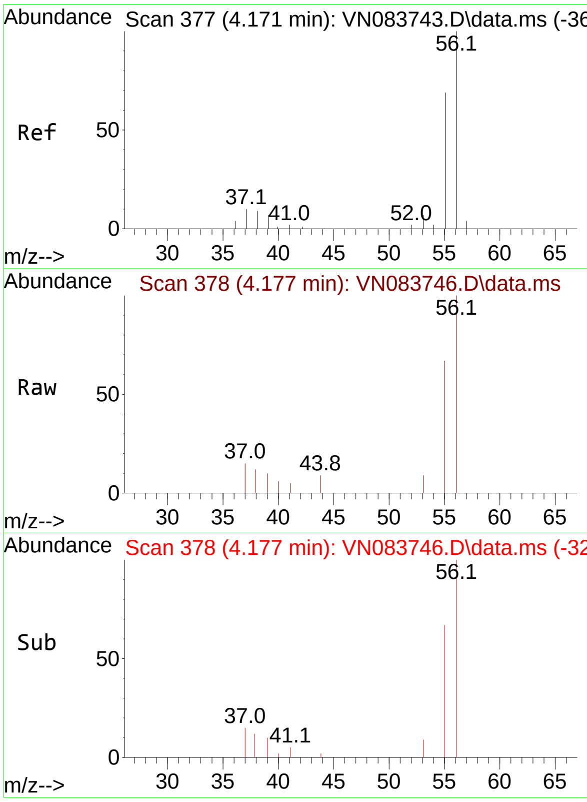


#12
1,1-Dichloroethene
Concen: 5.149 ug/l
RT: 4.324 min Scan# 403
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 96 Resp: 8914

Ion	Ratio	Lower	Upper
96	100		
61	141.8	143.4	215.0#
98	58.2	52.7	79.1





#13
Acrolein
Concen: 27.803 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 56 Resp: 886

Ion	Ratio	Lower	Upper
56	100		
55	72.4	58.2	87.2

Instrument :
MSVOA_N
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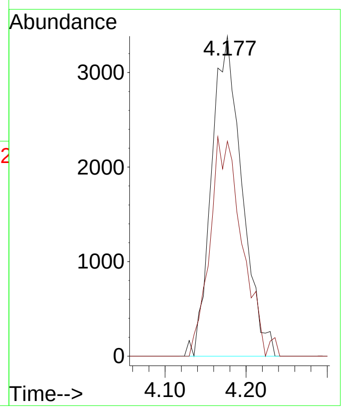
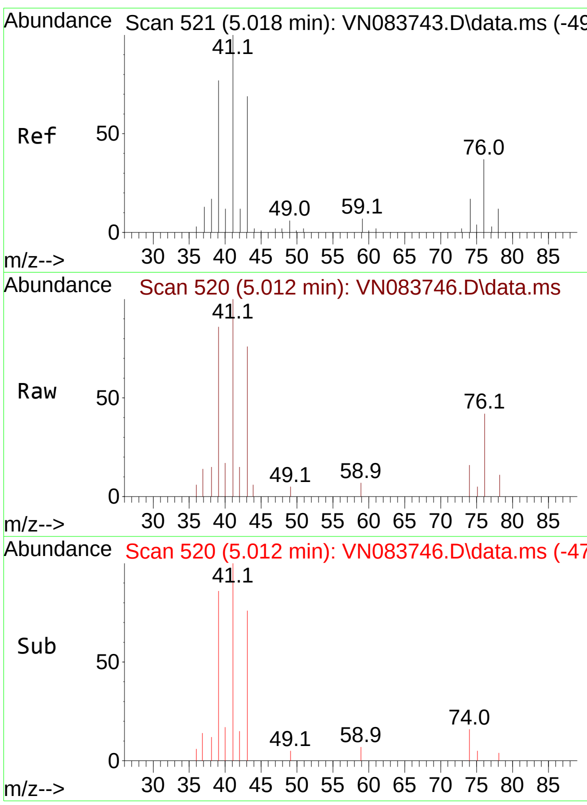
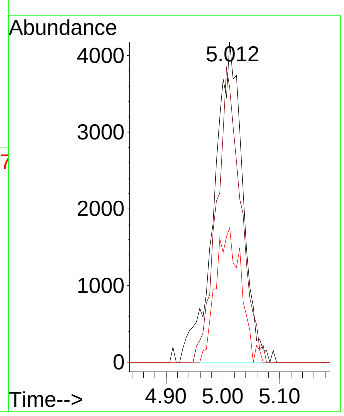


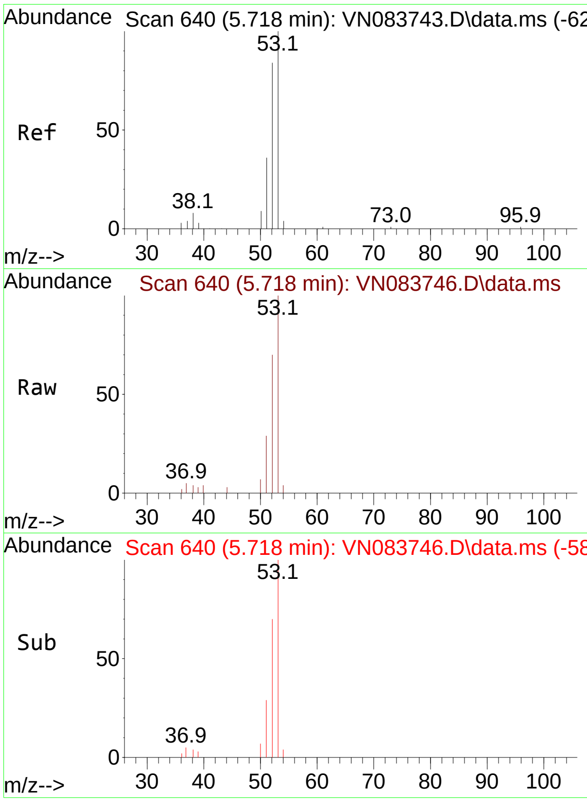


#14
Allyl chloride
Concen: 4.739 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 41 Resp: 14620

Ion	Ratio	Lower	Upper
41	100		
39	78.1	59.3	88.9
76	37.2	27.7	41.5





#15
Acrylonitrile
Concen: 25.224 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 53 Resp: 2217

Ion	Ratio	Lower	Upper
53	100		
52	79.6	66.1	99.1
51	35.5	29.6	44.4

Instrument :
MSVOA_N
ClientSampleId :
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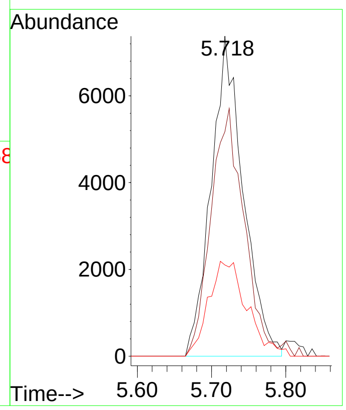
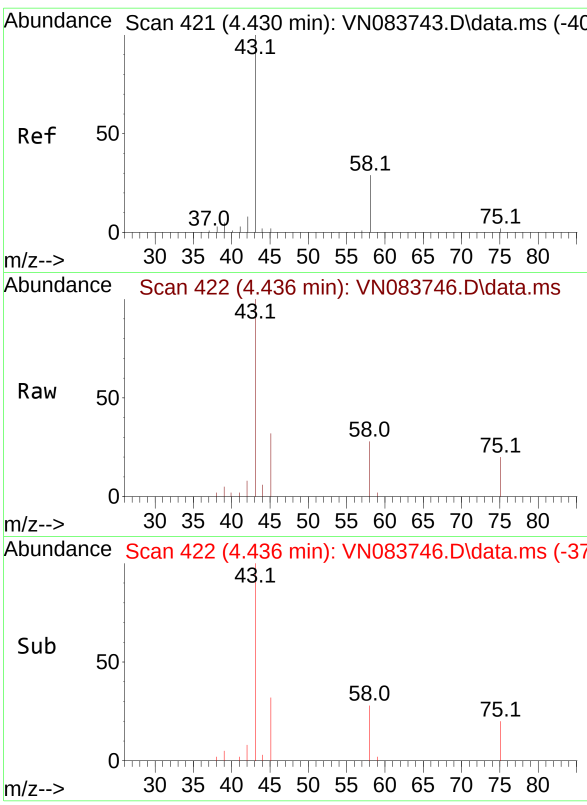
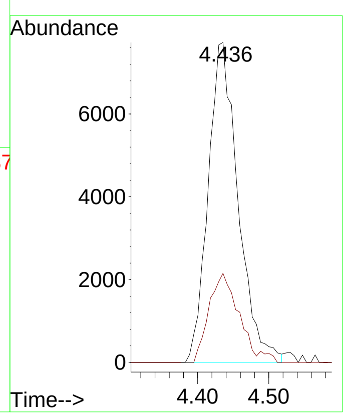


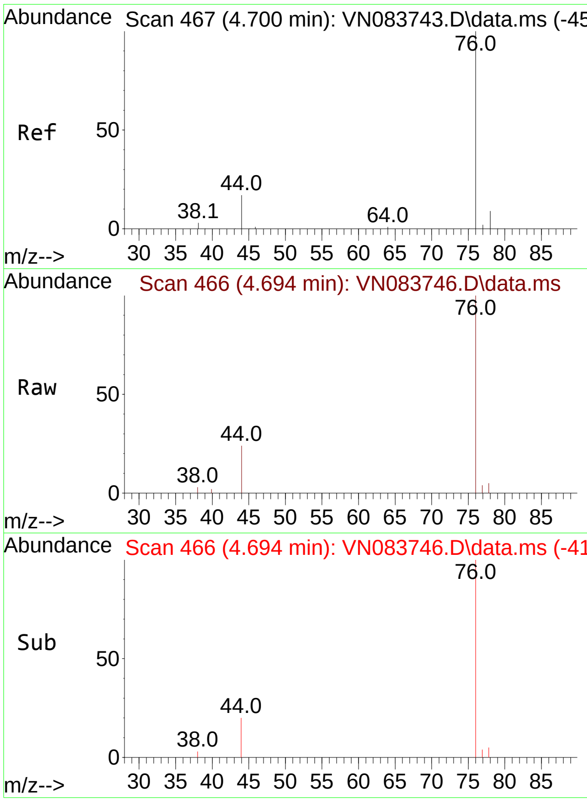


#16
Acetone
Concen: 23.401 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 43 Resp: 22641

Ion	Ratio	Lower	Upper
43	100		
58	27.9	23.7	35.5





#17
Carbon Disulfide
Concen: 4.850 ug/l
RT: 4.694 min Scan# 4
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 76 Resp: 2348

Ion	Ratio	Lower	Upper
76	100		
78	5.4	7.1	10.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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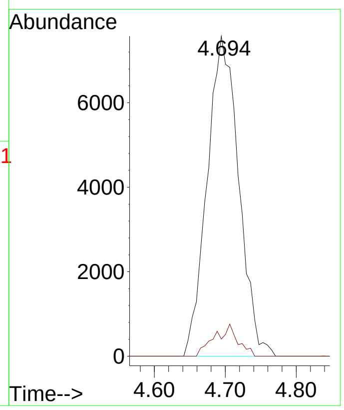
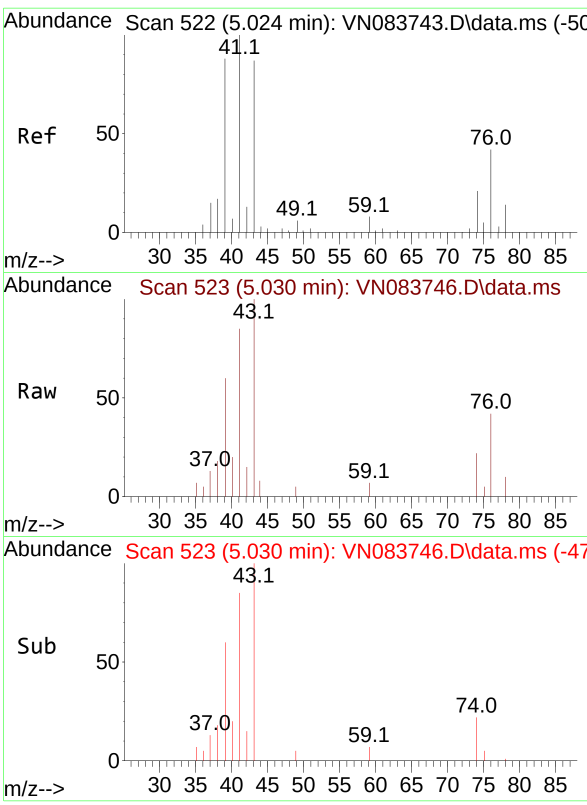
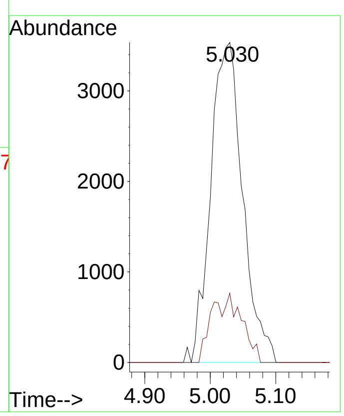




#18
Methyl Acetate
Concen: 4.269 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 43 Resp: 12028

Ion	Ratio	Lower	Upper
43	100		
74	0.0	19.0	28.4#



Instrument :
MSVOA_N
ClientSampleId :
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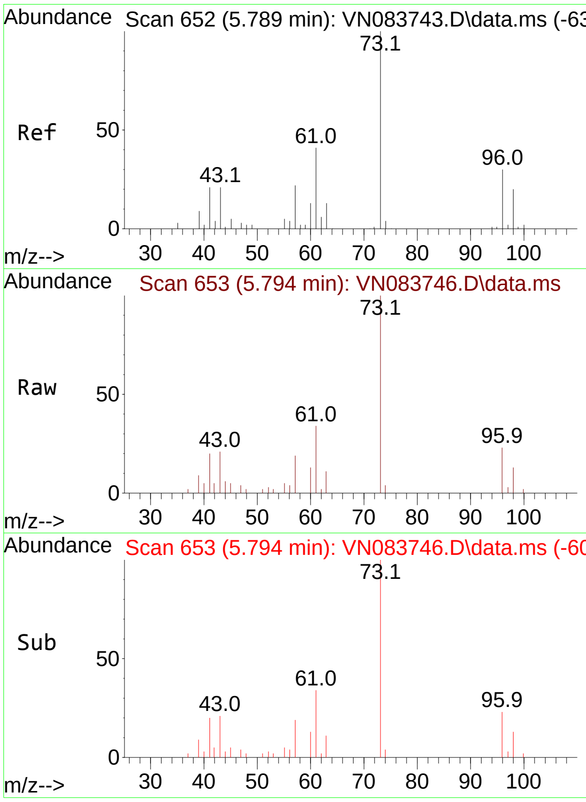
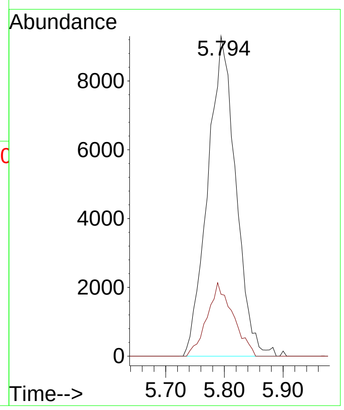
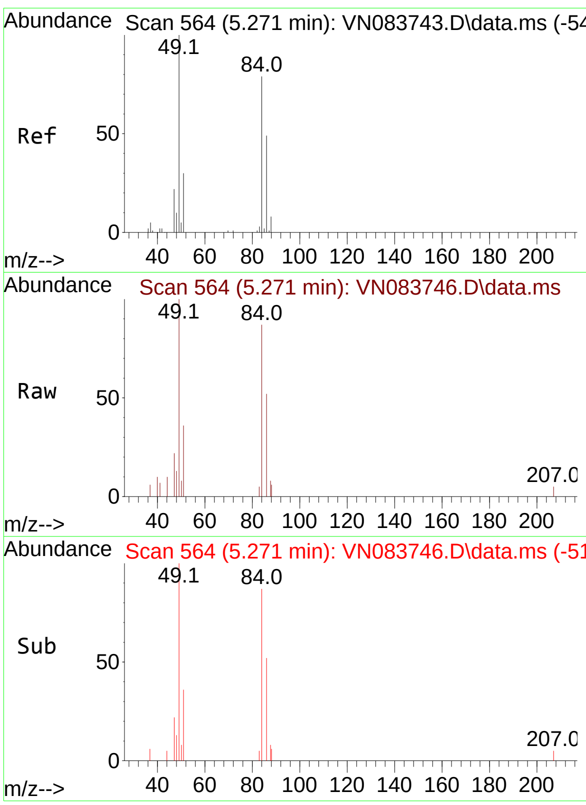



```
#19
Methyl tert-butyl Ether
Concen:    4.948 ug/l
RT:   5.794 min  Scan# 65
Delta R.T.  0.006 min
Lab File:   VN083746.D
Acq: 10 Sep 2024  10:44

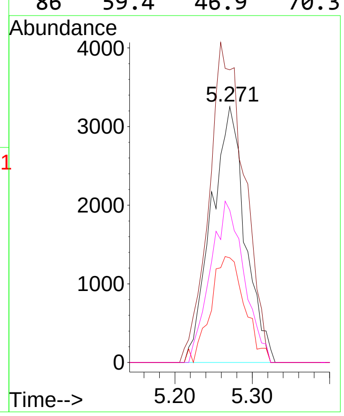
Tgt Ion: 73 Resp:   30995
Ion  Ratio  Lower  Upper
 73  100
 57   19.4   17.0   25.6
```

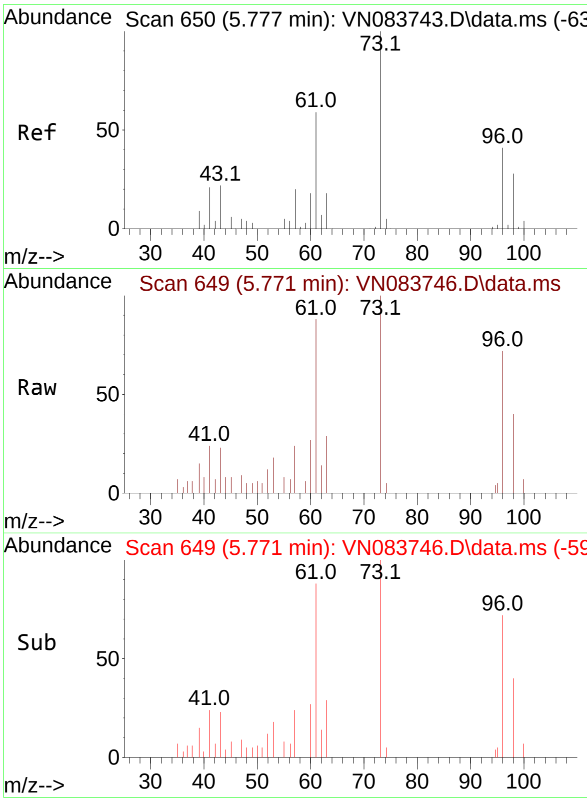





```
#20
Methylene Chloride
Concen:    5.016 ug/l
RT:   5.271 min  Scan# 564
Delta R.T.  -0.000 min
Lab File:   VN083746.D
Acq: 10 Sep 2024  10:44

Tgt Ion: 84 Resp:    9932
Ion  Ratio  Lower  Upper
 84  100
 49  114.3   93.4  140.0
 51   40.9   29.2   43.8
 86   59.4   46.9   70.3
```





#21
trans-1,2-Dichloroethene
Concen: 5.327 ug/l
RT: 5.771 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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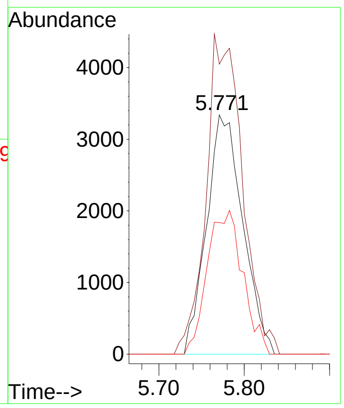
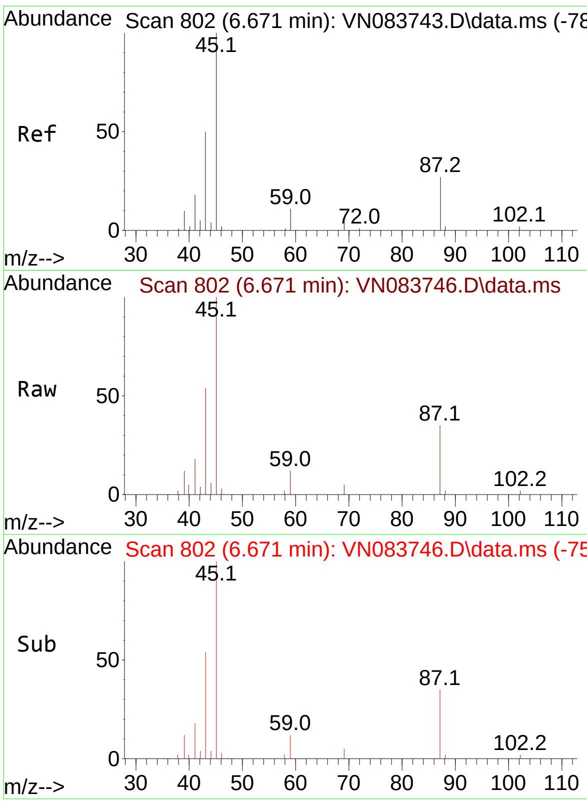
Supervised By :Semsettin Yesilyurt 09/11/2024

Tgt Ion: 96 Resp: 988

Ion	Ratio	Lower	Upper
96	100		
61	121.3	106.0	159.0
98	55.0	52.2	78.2

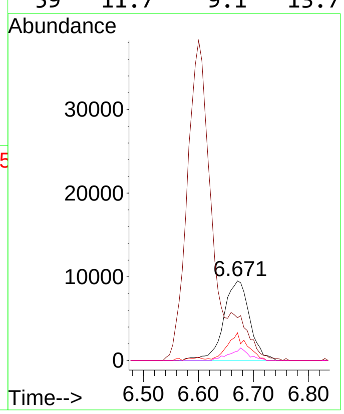




#22
Diisopropyl ether
Concen: 4.941 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 45 Resp: 31379

Ion	Ratio	Lower	Upper
45	100		
43	51.9	43.4	65.0
87	34.7	22.6	33.8#
59	11.7	9.1	13.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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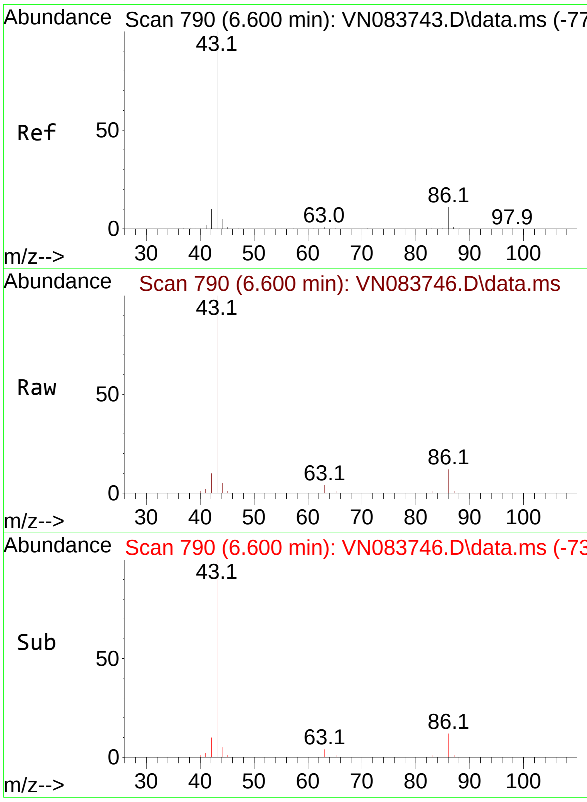
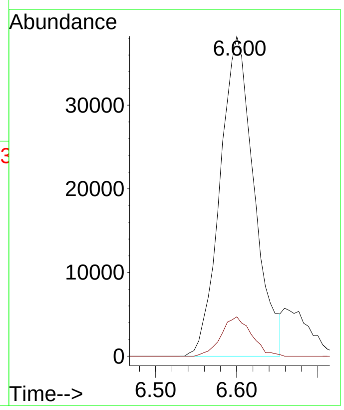
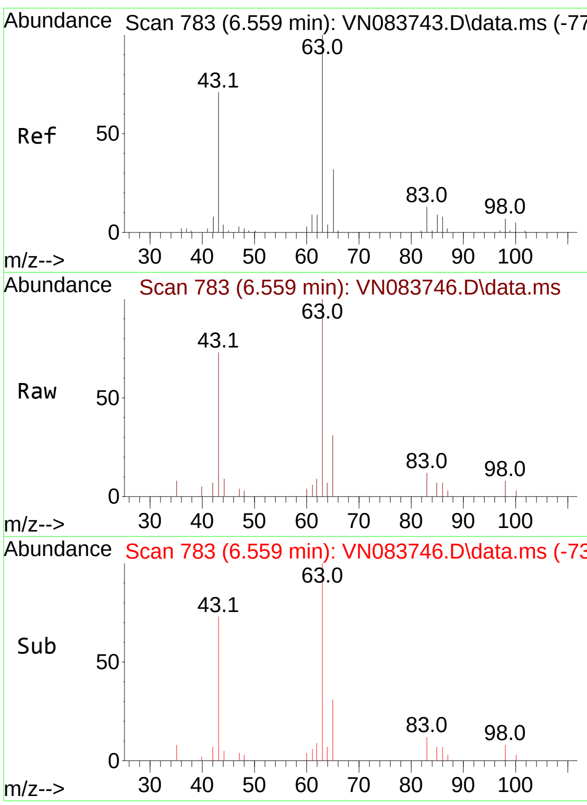



```
#23
Vinyl Acetate
Concen:   23.983 ug/l
RT:   6.600 min   Scan# 79
Delta R.T.   -0.000 min
Lab File:    VN083746.D
Acq: 10 Sep 2024   10:44

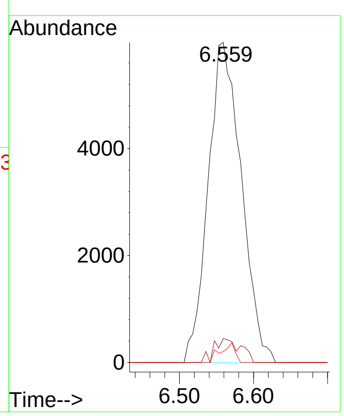
Tgt Ion: 43 Resp:   11153
Ion   Ratio   Lower   Upper
 43   100
 86    12.3     8.7    13.1
```






```
#24
1,1-Dichloroethane
Concen:    5.098 ug/l
RT:   6.559 min   Scan# 783
Delta R.T.   -0.000 min
Lab File:    VN083746.D
Acq: 10 Sep 2024   10:44

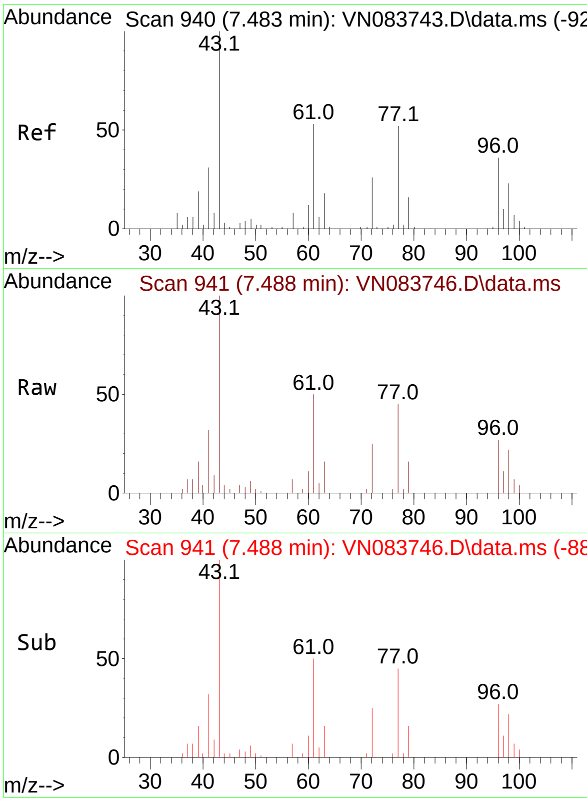
Tgt Ion: 63 Resp:    18651
Ion   Ratio   Lower   Upper
 63   100
 98     7.5     3.5    10.4
100     3.4     2.5     7.5
```



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

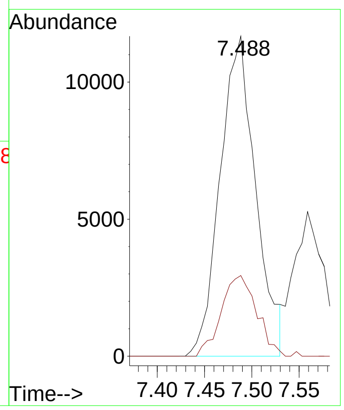
Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

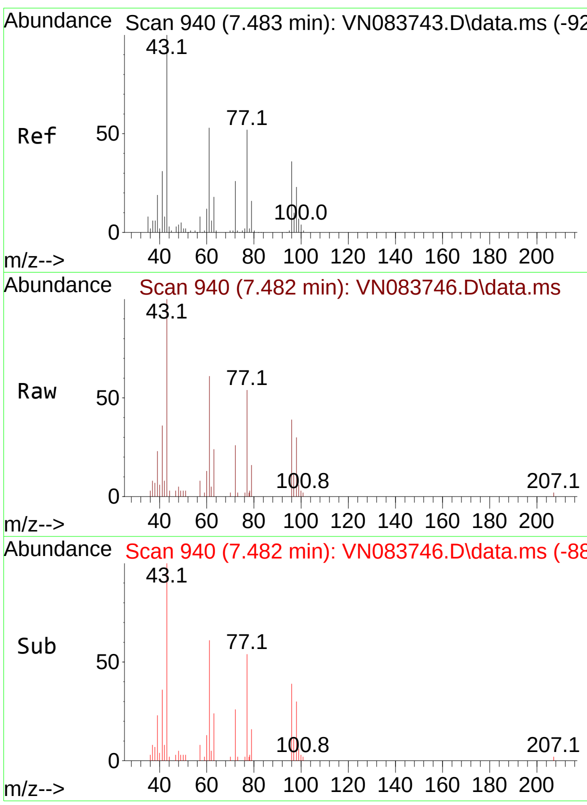
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#25
2-Butanone
Concen:   23.949 ug/l
RT:   7.488 min   Scan# 94
Delta R.T.   0.006 min
Lab File:    VN083746.D
Acq: 10 Sep 2024   10:44

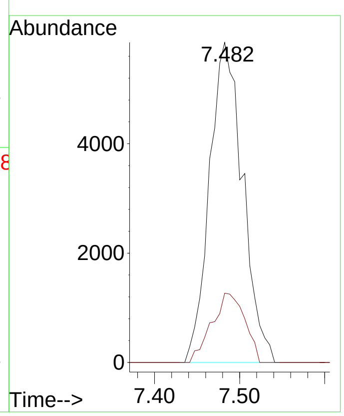
Tgt Ion: 43 Resp:   3045
Ion   Ratio   Lower   Upper
 43   100
 72    25.2    20.8    31.2
```

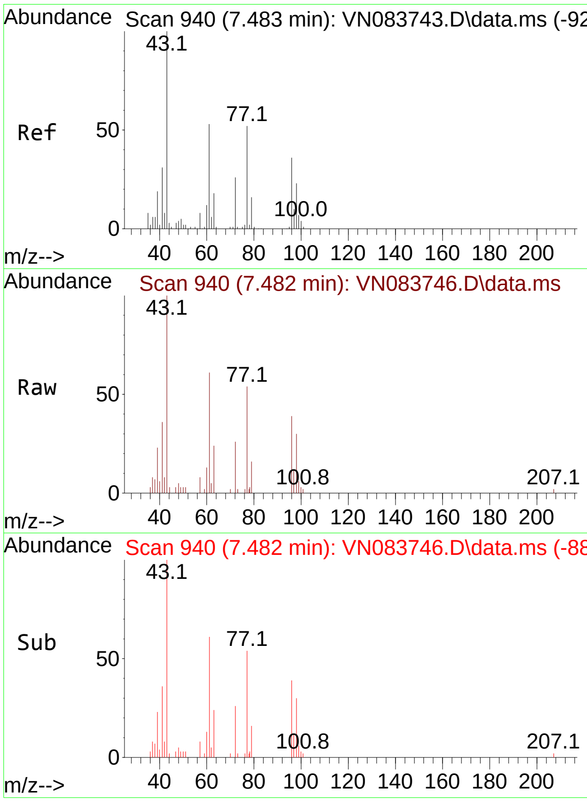





```
#26
2,2-Dichloropropane
Concen:    4.719 ug/l
RT:   7.482 min   Scan# 940
Delta R.T.   -0.000 min
Lab File:    VN083746.D
Acq: 10 Sep 2024   10:44

Tgt Ion: 77 Resp:   15899
Ion   Ratio   Lower   Upper
 77   100
 97    21.4    10.2    30.4
```





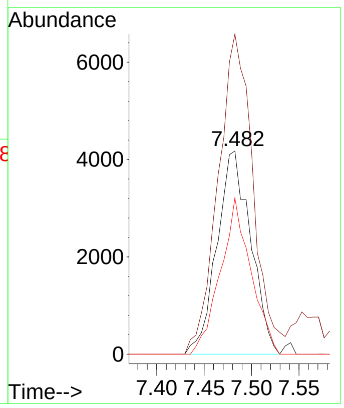
#27
cis-1,2-Dichloroethene
Concen: 4.697 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

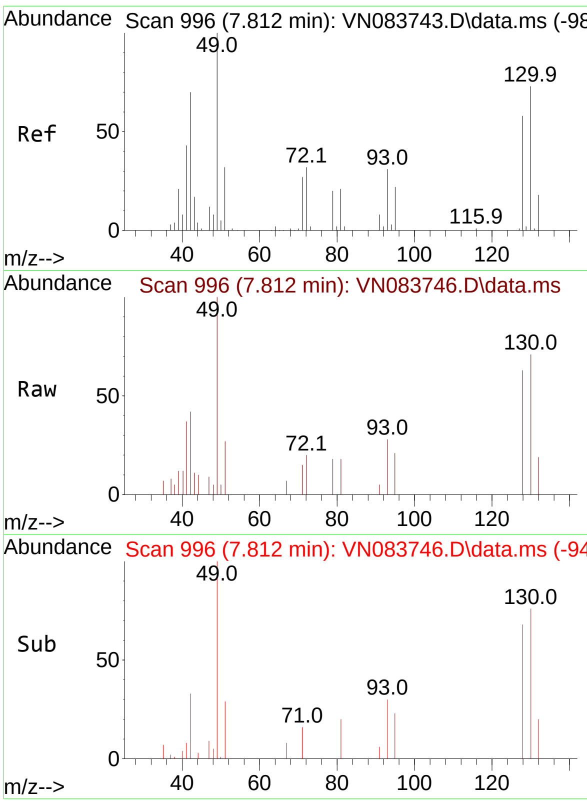
Tgt Ion: 96 Resp: 10345

Ion	Ratio	Lower	Upper
96	100		
61	162.9	0.0	306.2
98	69.6	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

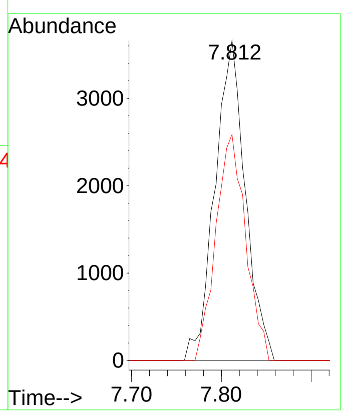


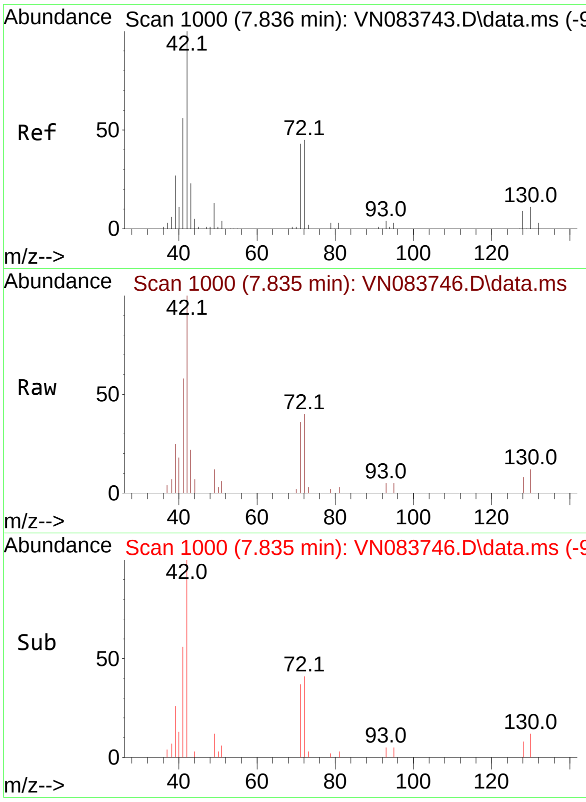


#28
Bromochloromethane
Concen: 5.585 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 49 Resp: 8604

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	69.3	60.2	90.2





#29
Tetrahydrofuran
Concen: 24.578 ug/l
RT: 7.835 min   Scan# 10
Delta R.T.   -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024   10:44

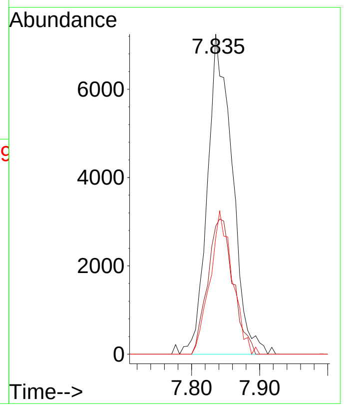
Tgt Ion: 42 Resp: 1848

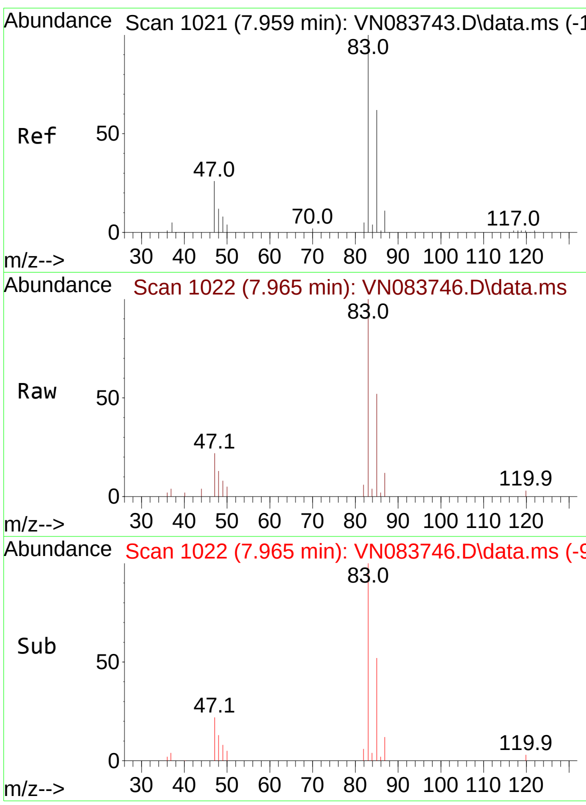
Ion	Ratio	Lower	Upper
42	100		
72	43.2	35.9	53.9
71	40.5	33.9	50.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone   09/11/2024
Supervised By :Semsettin Yesilyurt   09/11/2024

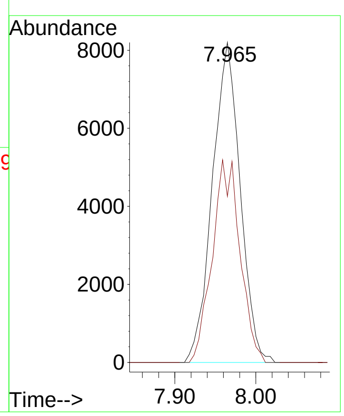




#30
Chloroform
Concen: 5.044 ug/l
RT: 7.965 min   Scan# 1022
Delta R.T.   0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024   10:44

Tgt Ion: 83 Resp: 19593

Ion	Ratio	Lower	Upper
83	100		
85	51.9	52.8	79.2#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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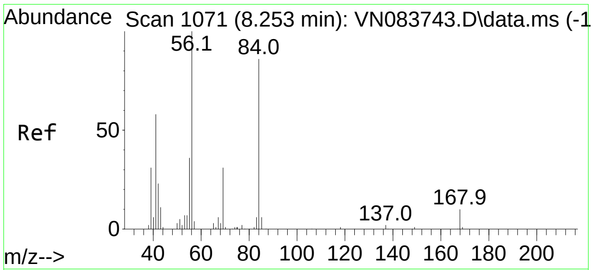
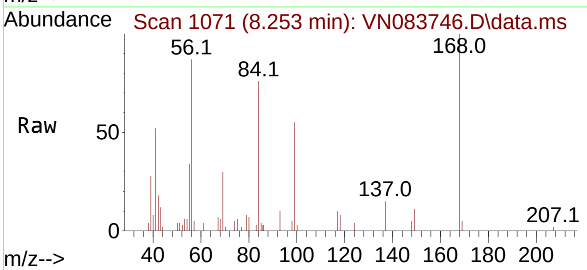
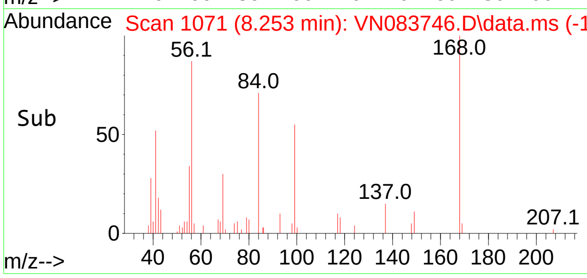


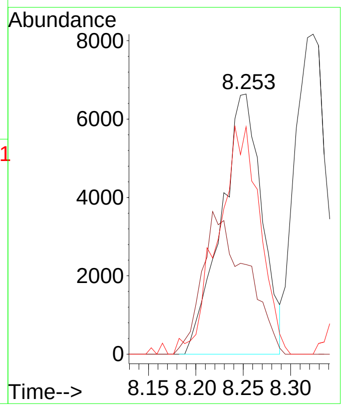


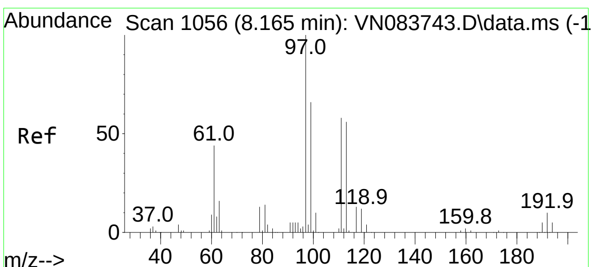


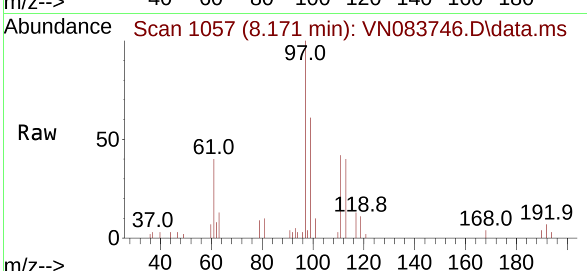
#31
Cyclohexane
Concen: 5.708 ug/l
RT: 8.253 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

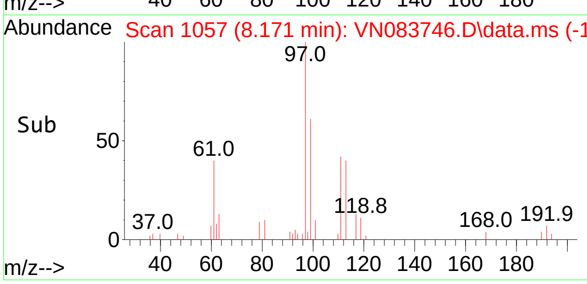
Tgt Ion: 56 Resp: 1991(

Ion	Ratio	Lower	Upper
56	100		
69	32.1	26.9	40.3
84	81.3	69.2	103.8





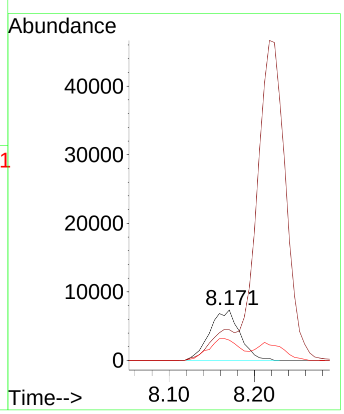


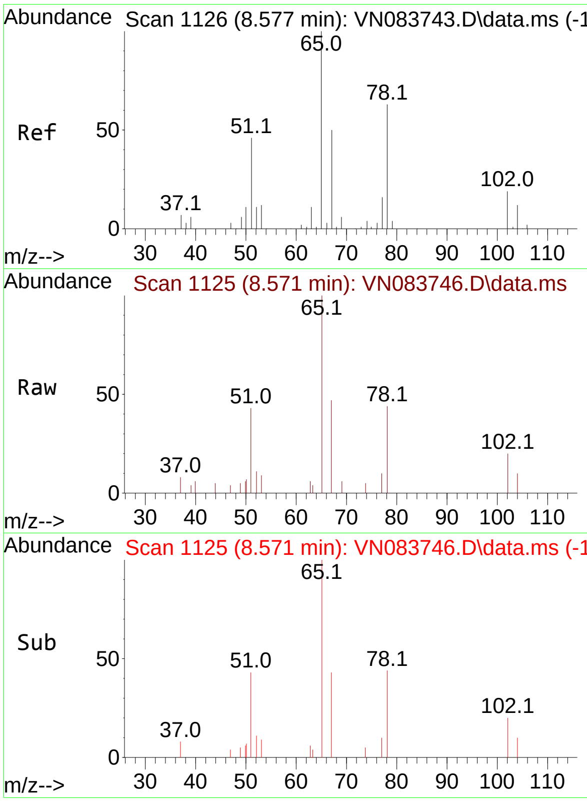


#32
1,1,1-Trichloroethane
Concen: 5.068 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 97 Resp: 18099

Ion	Ratio	Lower	Upper
97	100		
99	51.1	52.3	78.5#
61	45.5	38.2	57.2





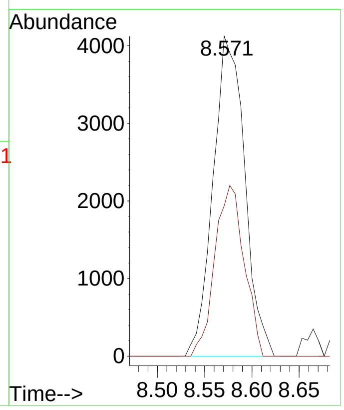
#33
1,2-Dichloroethane-d4
Concen: 3.970 ug/l
RT: 8.571 min   Scan# 1
Delta R.T.   -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024   10:44

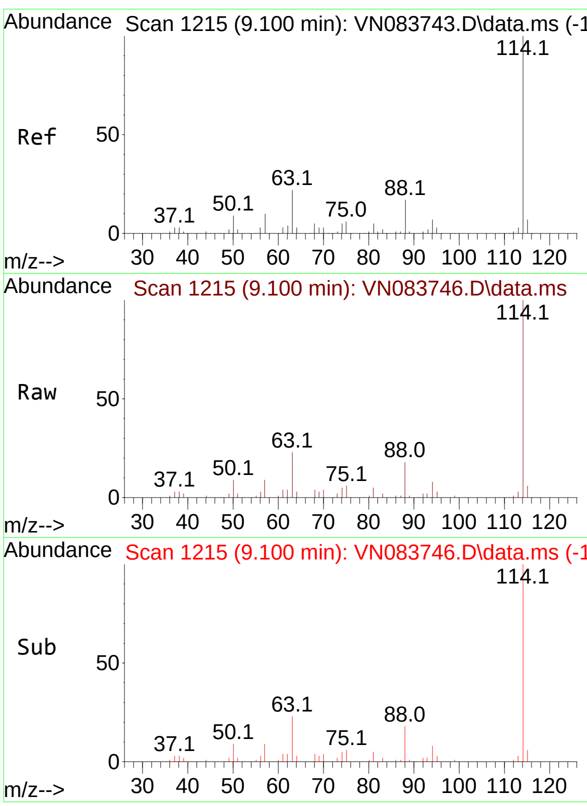
Tgt Ion: 65 Resp: 958

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	100.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone   09/11/2024
Supervised By :Semsettin Yesilyurt   09/11/2024

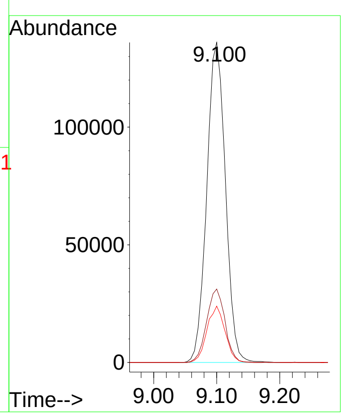




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min   Scan# 1215
Delta R.T.   -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024   10:44

Tgt Ion:114 Resp: 280097

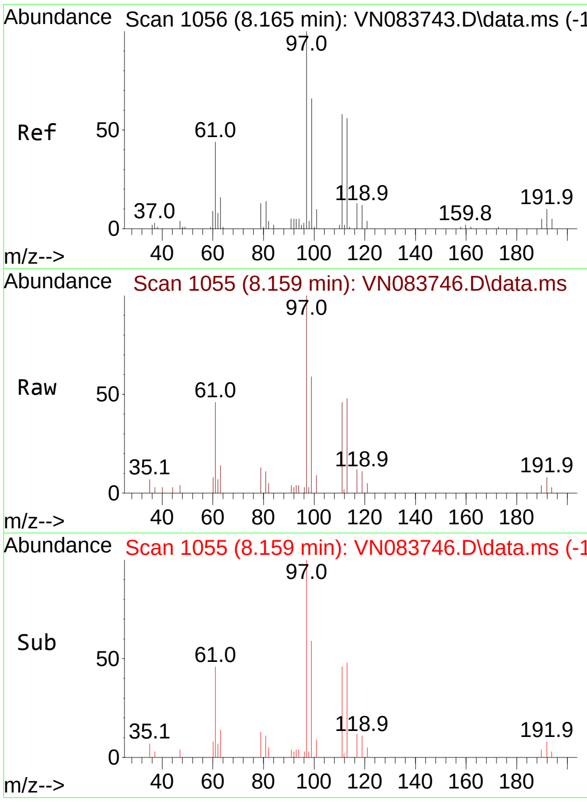
Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	43.4
88	17.6	0.0	32.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

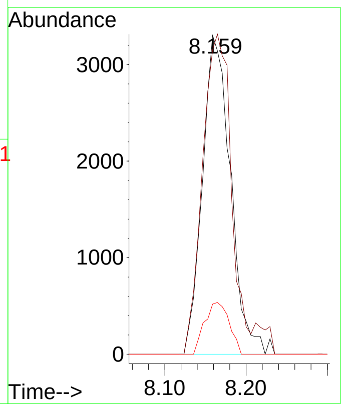
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

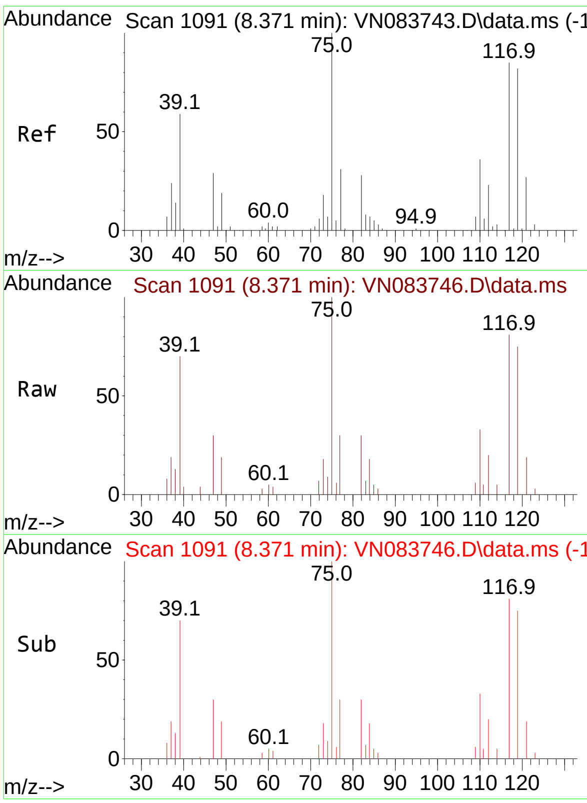


#35
Dibromofluoromethane
Concen: 4.435 ug/l
RT: 8.159 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:113 Resp: 795

Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.6	124.0
192	14.2	14.3	21.5#

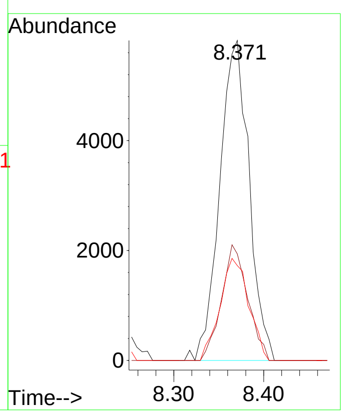


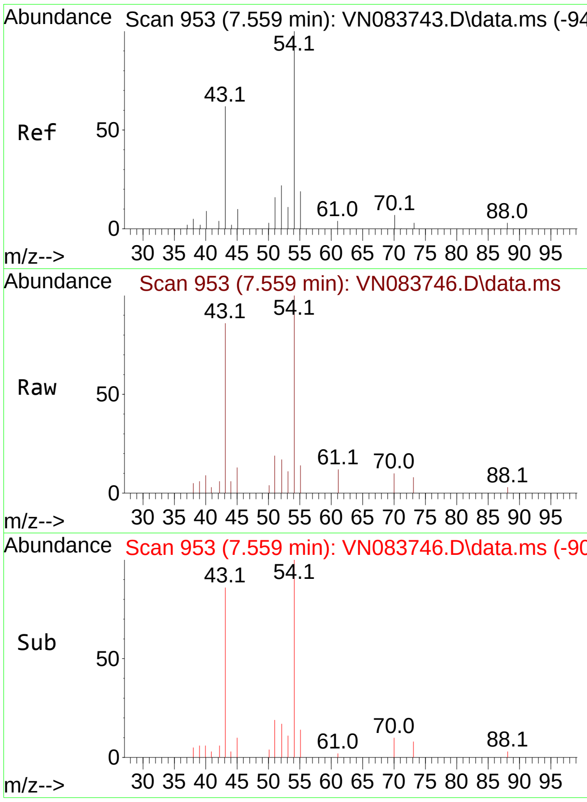


#36
1,1-Dichloropropene
Concen: 4.903 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 75 Resp: 13233

Ion	Ratio	Lower	Upper
75	100		
110	32.3	16.7	50.1
77	31.2	25.2	37.8

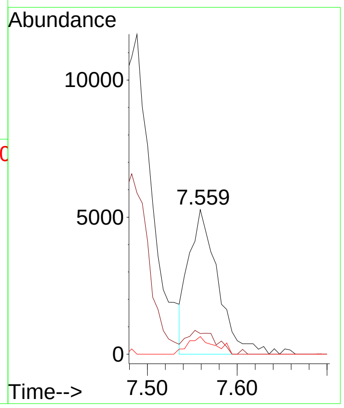




#37
Ethyl Acetate
Concen: 4.903 ug/l
RT: 7.559 min   Scan# 9
Delta R.T.   -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024   10:44

Tgt Ion: 43 Resp: 1201

Ion	Ratio	Lower	Upper
43	100		
61	16.0	11.1	16.7
70	10.9	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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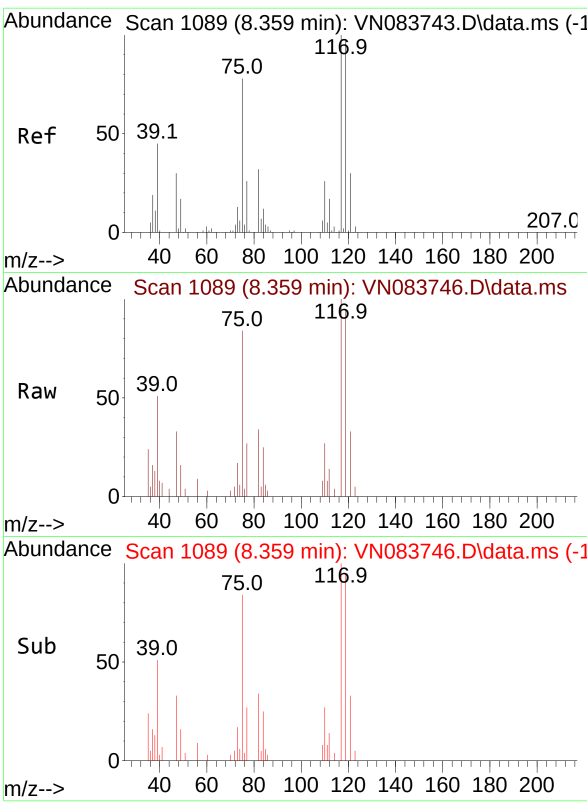
Reviewed By :John Carlone   09/11/2024
Supervised By :Semsettin Yesilyurt   09/11/2024

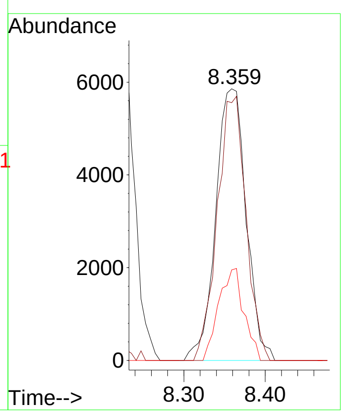
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#38
Carbon Tetrachloride
Concen: 4.979 ug/l
RT: 8.359 min   Scan# 1089
Delta R.T.   -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024   10:44

Tgt Ion:117 Resp: 15245

Ion	Ratio	Lower	Upper
117	100		
119	94.9	76.1	114.1
121	33.3	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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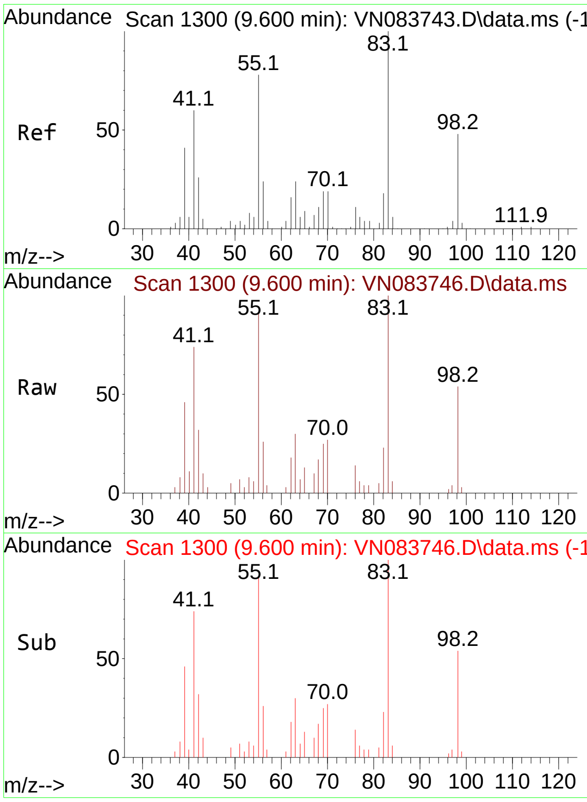
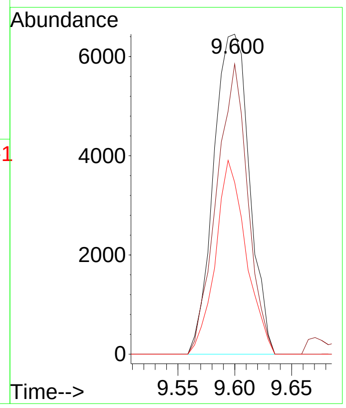
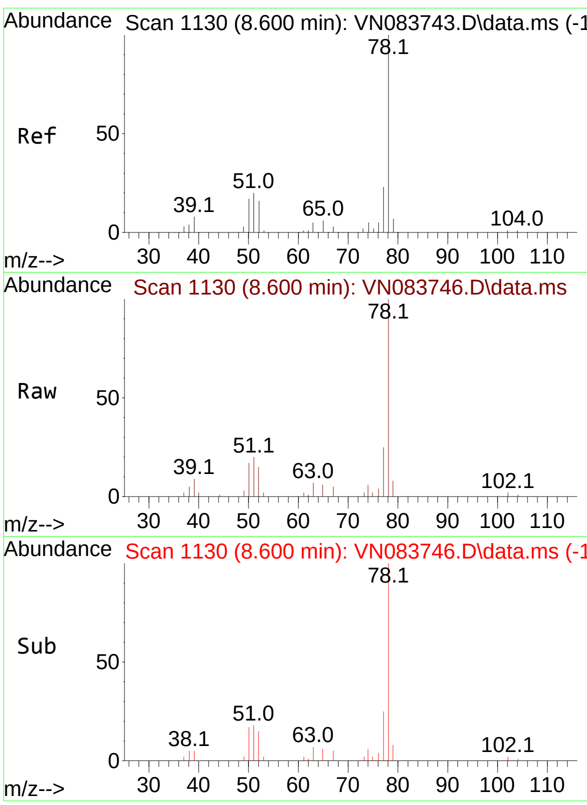


#39
Methylcyclohexane
Concen: 4.598 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 83 Resp: 1412

Ion	Ratio	Lower	Upper
83	100		
55	90.7	62.2	93.4
98	53.7	37.6	56.4

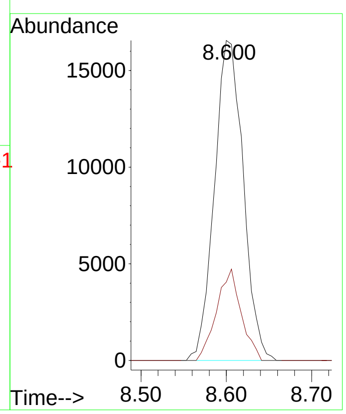




#40
Benzene
Concen: 4.780 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 78 Resp: 38828

Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.0	28.6



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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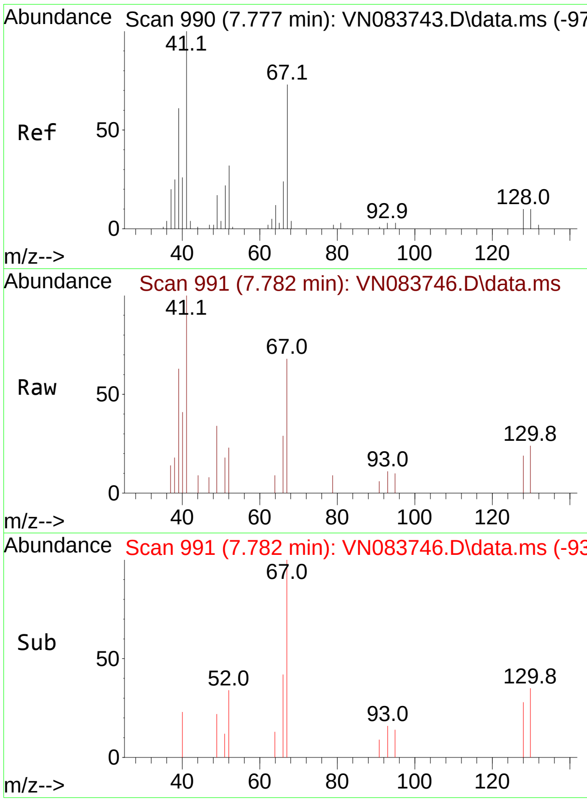
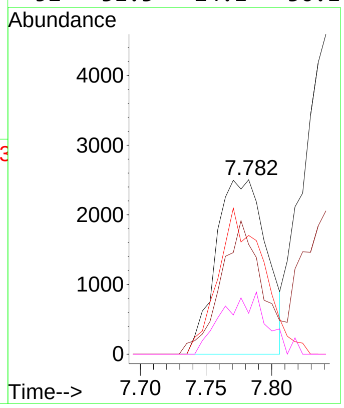
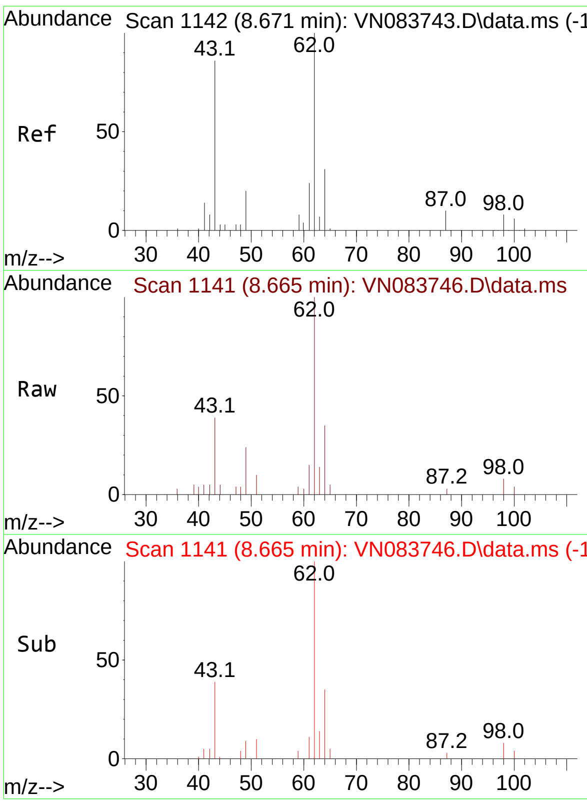


#41
Methacrylonitrile
Concen: 4.628 ug/l
RT: 7.782 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 41 Resp: 670

Ion	Ratio	Lower	Upper
41	100		
39	64.1	45.4	68.2
67	75.3	55.9	83.9
52	31.3	24.1	36.1

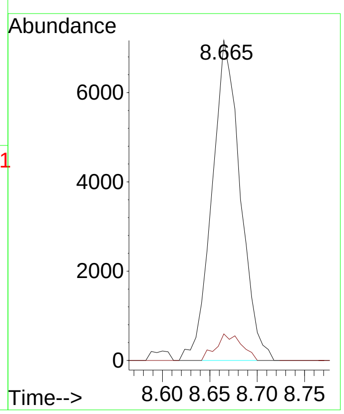




#42
1,2-Dichloroethane
Concen: 4.926 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 62 Resp: 14954

Ion	Ratio	Lower	Upper
62	100		
98	7.5	0.0	16.6



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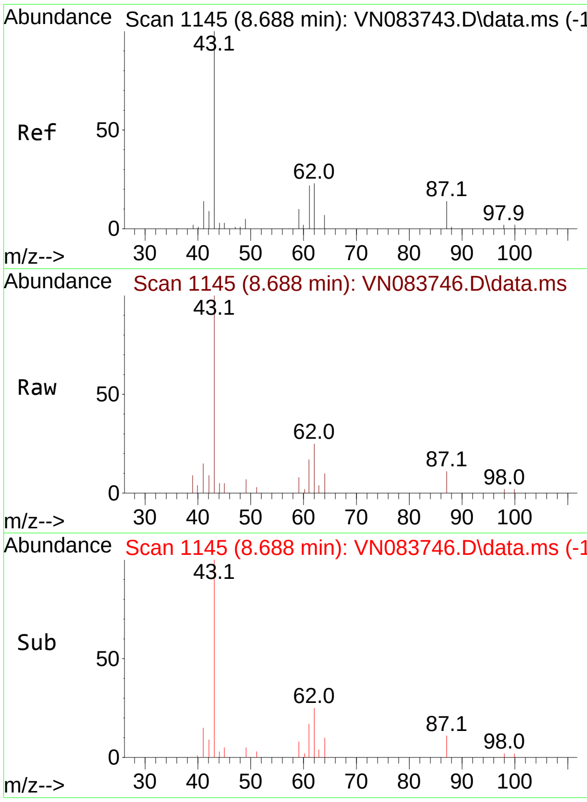
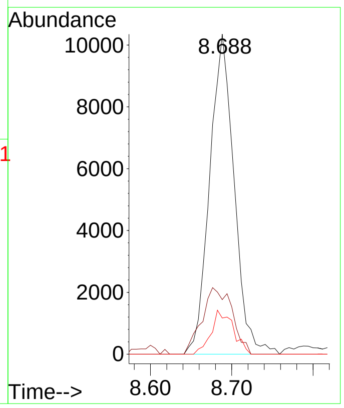


#43
Isopropyl Acetate
Concen: 4.878 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 43 Resp: 21656

Ion	Ratio	Lower	Upper
43	100		
61	25.7	19.4	29.0
87	12.4	9.8	14.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
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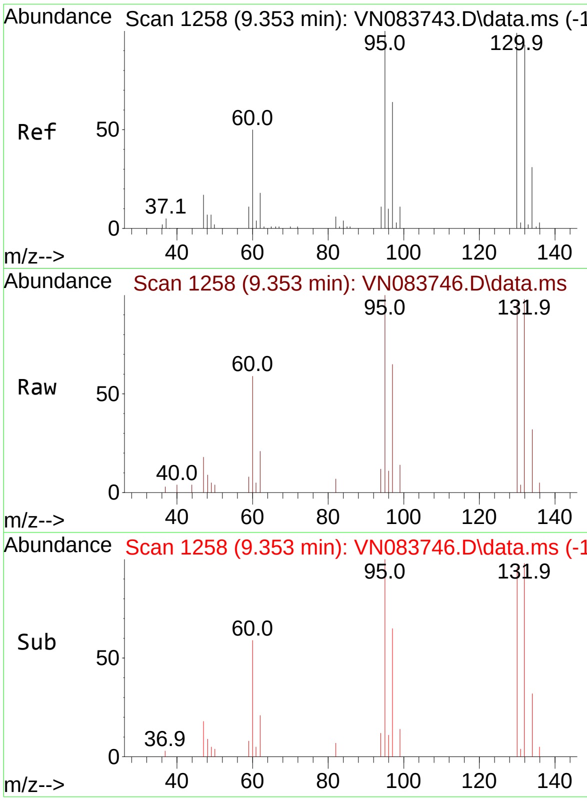
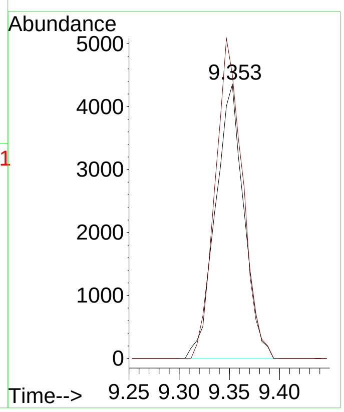
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

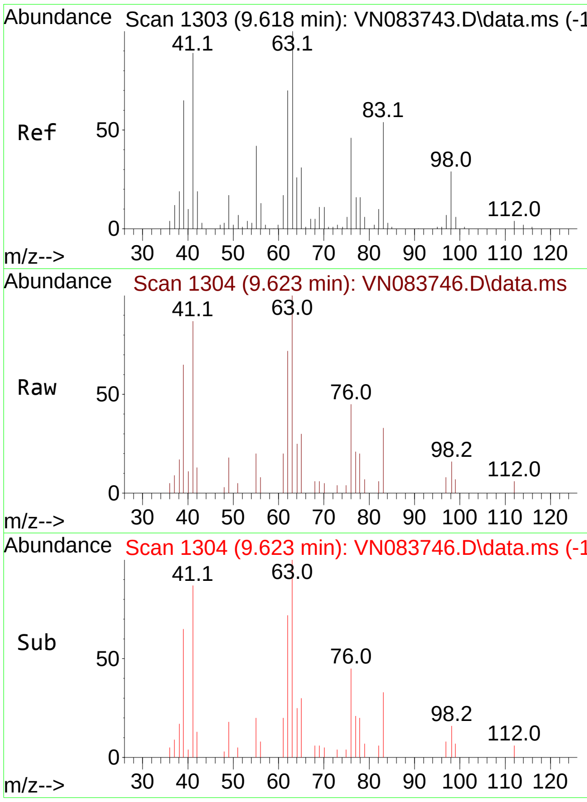


#44
Trichloroethene
Concen: 4.554 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:130 Resp: 8567

Ion	Ratio	Lower	Upper
130	100		
95	103.7	0.0	200.4

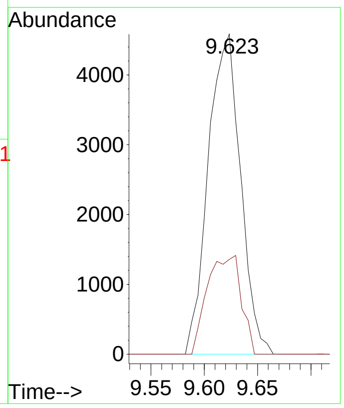




#45
1,2-Dichloropropane
Concen: 4.921 ug/l
RT: 9.623 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 63 Resp: 966

Ion	Ratio	Lower	Upper
63	100		
65	29.6	25.9	38.9



Instrument :
MSVOA_N
ClientSampleId :
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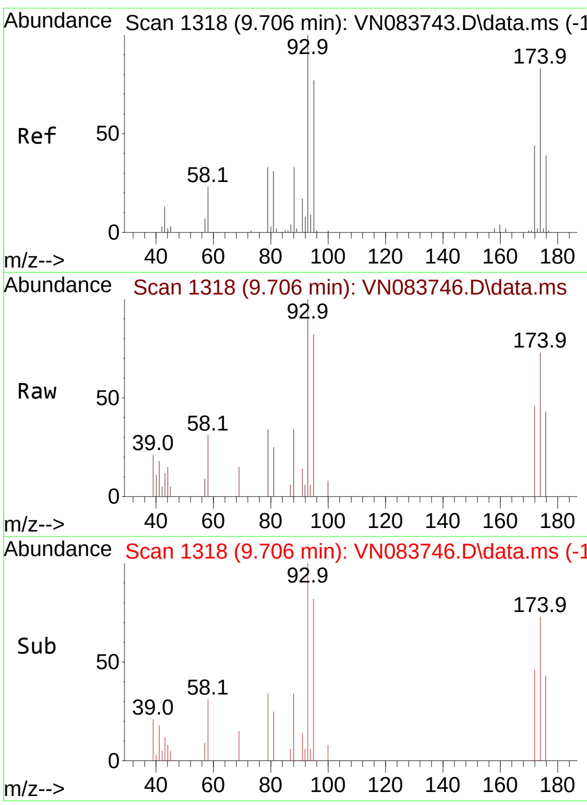
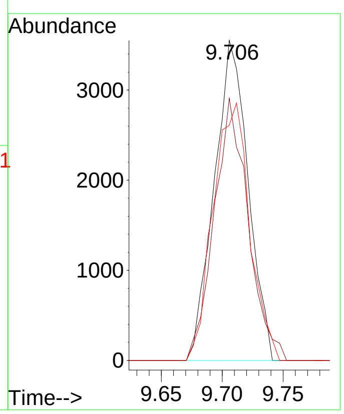
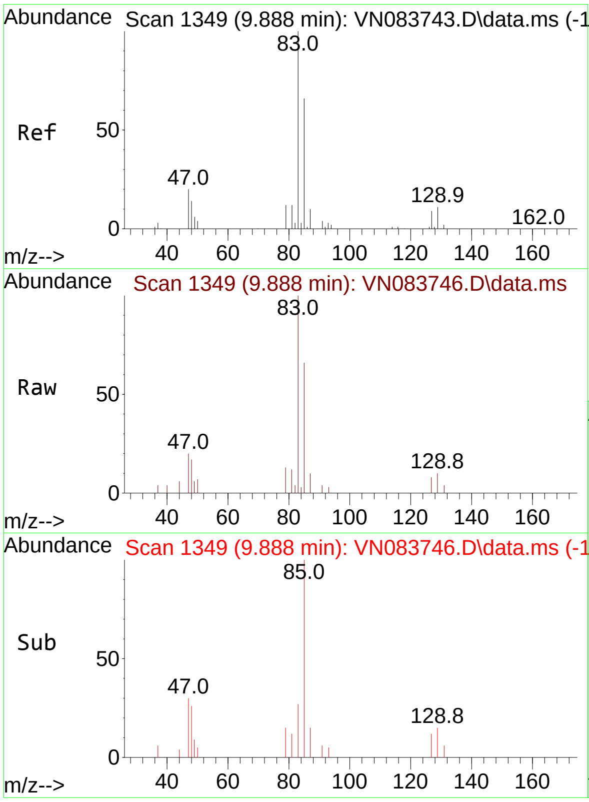


#46
Dibromomethane
Concen: 5.001 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 93 Resp: 6877

Ion	Ratio	Lower	Upper
93	100		
95	81.7	65.3	97.9
174	86.7	71.0	106.4

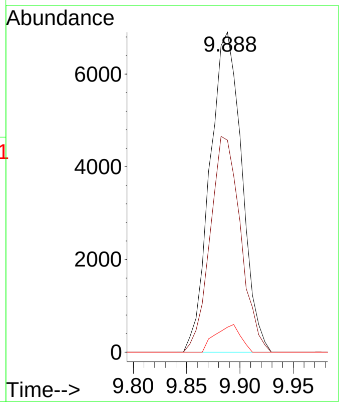




#47
Bromodichloromethane
Concen: 4.821 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 83 Resp: 1435

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.8	77.8
127	7.8	6.6	9.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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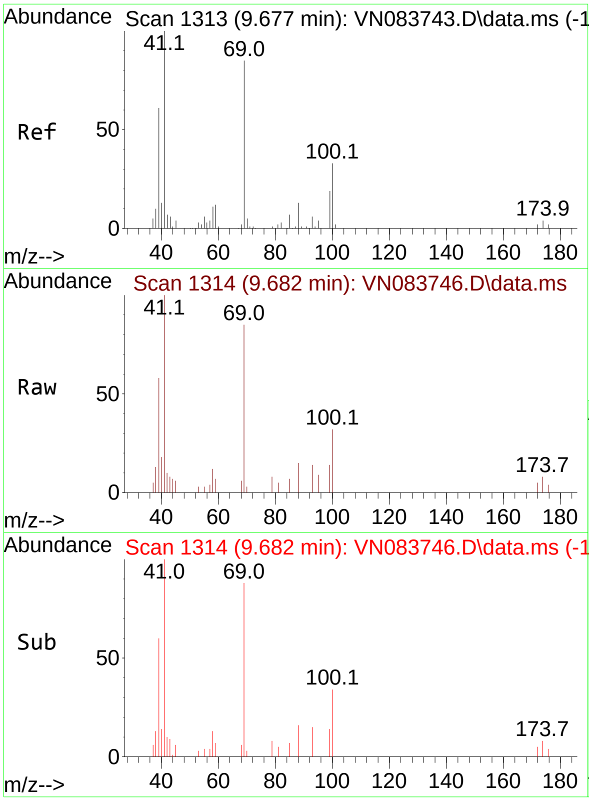
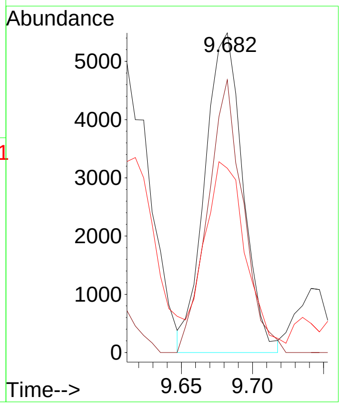
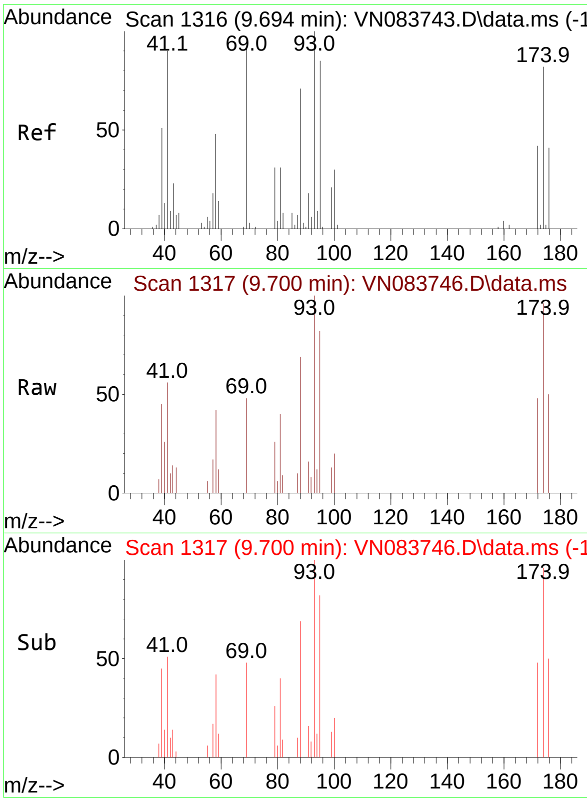


#48
Methyl methacrylate
Concen: 4.837 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 41 Resp: 10187

Ion	Ratio	Lower	Upper
41	100		
69	79.8	64.3	96.5
39	65.6	48.9	73.3





#49
1,4-Dioxane
Concen: 94.692 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 328

Ion	Ratio	Lower	Upper
88	100		
43	29.6	0.0	0.0
58	75.0	57.1	85.7

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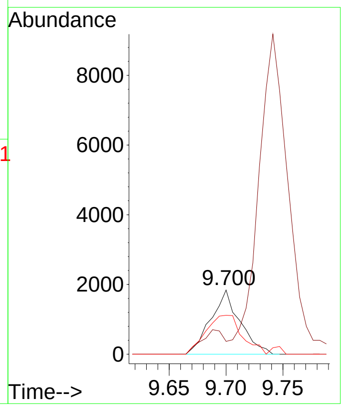
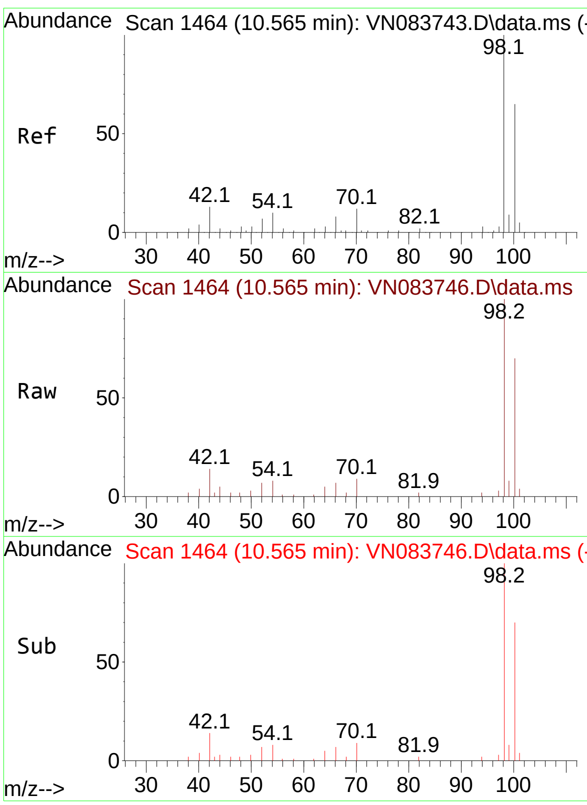
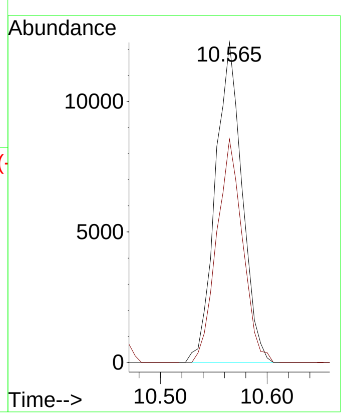


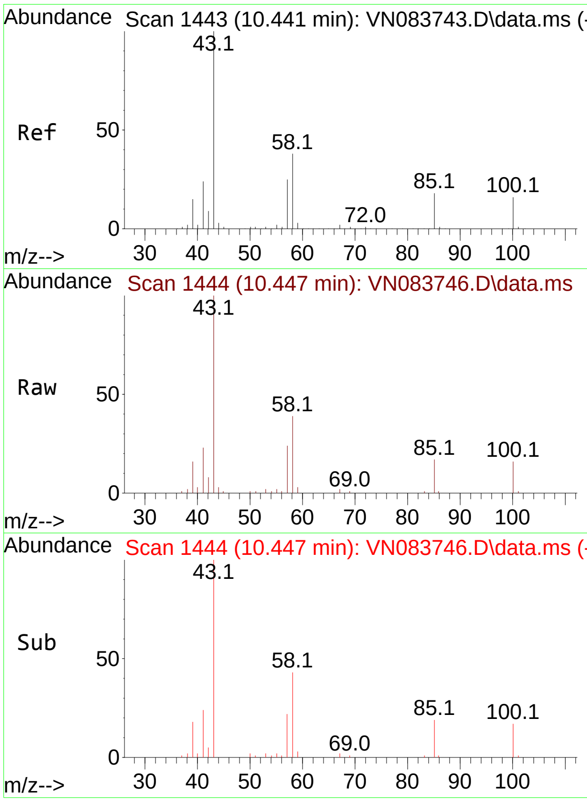


#50
Toluene-d8
Concen: 3.439 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 98 Resp: 21320

Ion	Ratio	Lower	Upper
98	100		
100	68.0	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 24.128 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 43 Resp: 58309

Ion	Ratio	Lower	Upper
43	100		
58	38.3	31.6	47.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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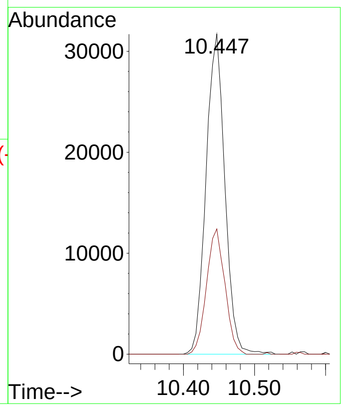

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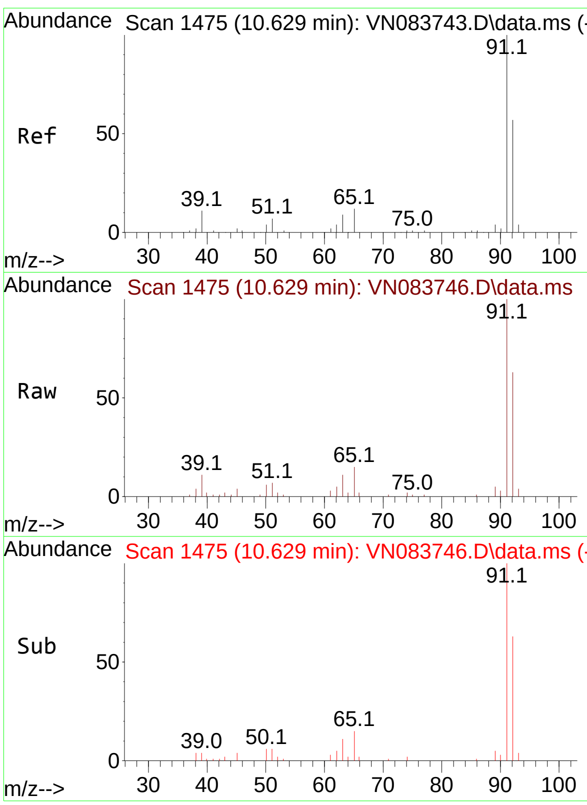
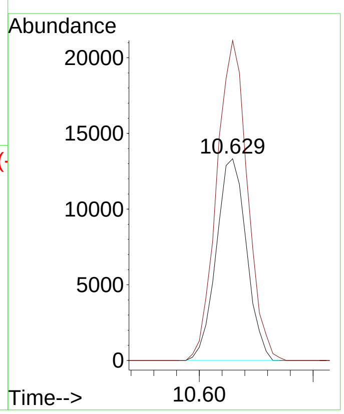


#52
Toluene
Concen: 4.949 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 92 Resp: 24590

Ion	Ratio	Lower	Upper
92	100		
91	161.8	134.7	202.1



Instrument :
MSVOA_N
ClientSampleId :
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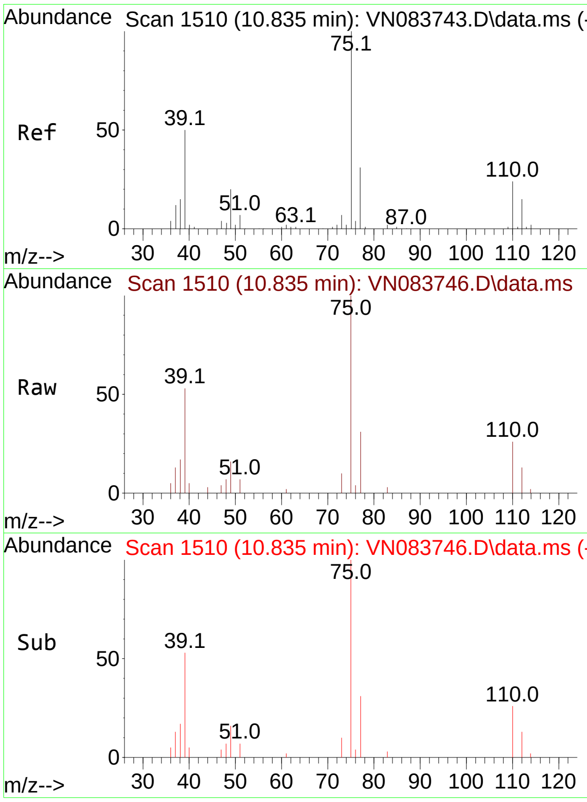
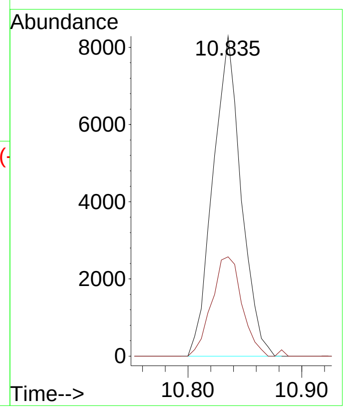
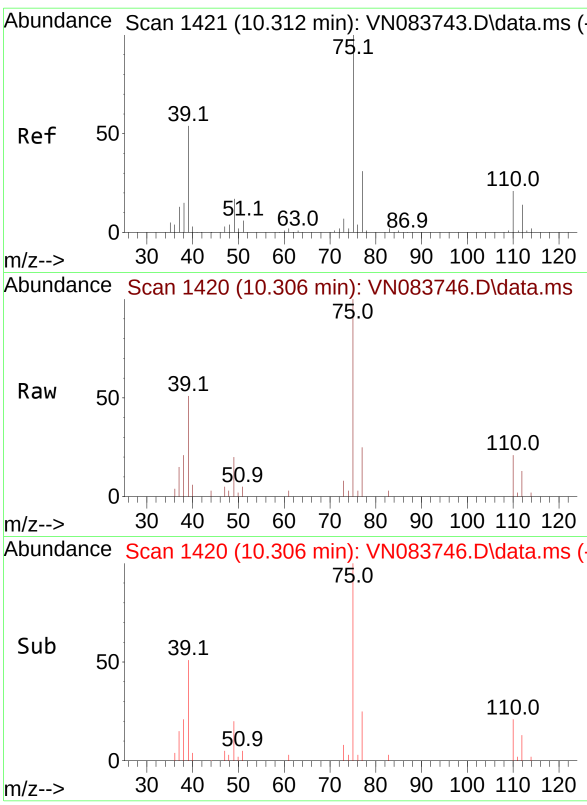


#53
t-1,3-Dichloropropene
Concen: 4.733 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 75 Resp: 1428

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.8	38.6

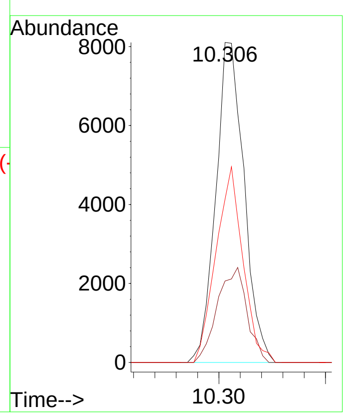




#54
cis-1,3-Dichloropropene
Concen: 4.709 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 75 Resp: 14921

Ion	Ratio	Lower	Upper
75	100		
77	25.4	25.0	37.6
39	51.0	42.6	64.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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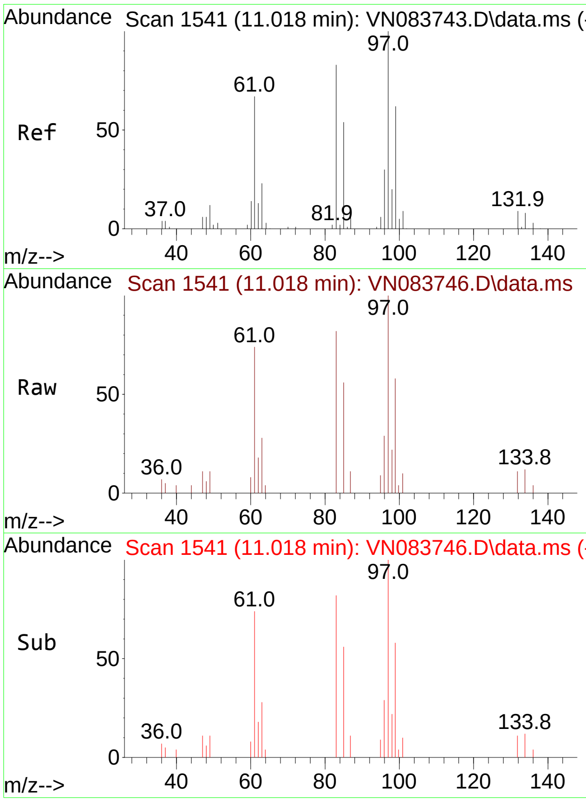
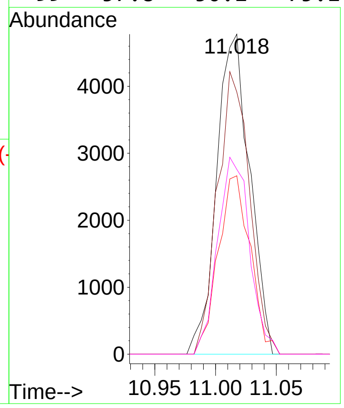
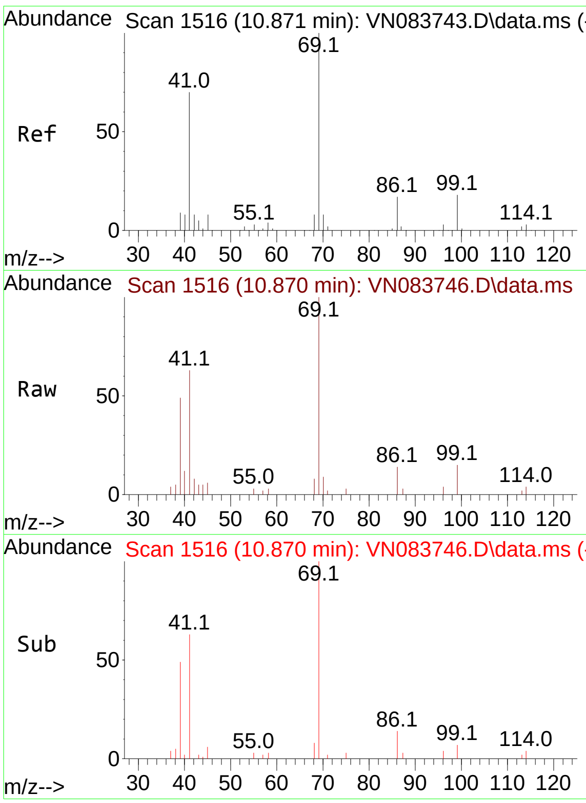


#55
1,1,2-Trichloroethane
Concen: 4.873 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 97 Resp: 9040

Ion	Ratio	Lower	Upper
97	100		
83	81.9	67.5	101.3
85	55.8	44.2	66.2
99	57.8	50.1	75.1

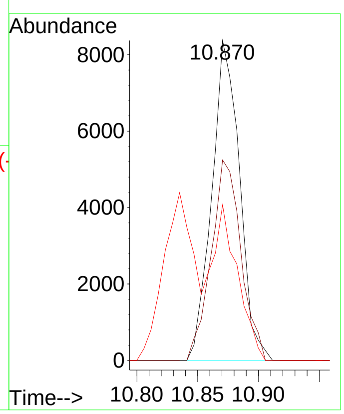




#56
Ethyl methacrylate
Concen: 4.664 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 69 Resp: 13310

Ion	Ratio	Lower	Upper
69	100		
41	67.4	53.9	80.9
39	45.8	32.6	48.8



Instrument : MSVOA_N
ClientSampleId : VSTDICC005

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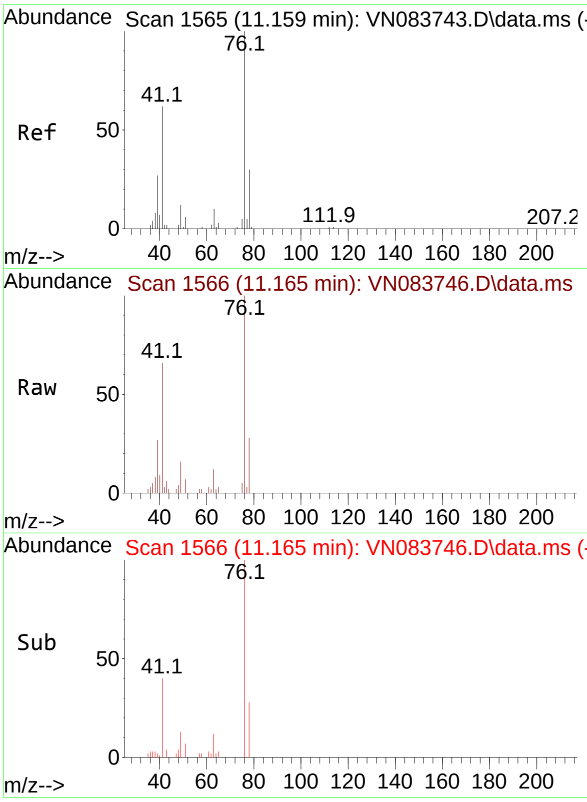
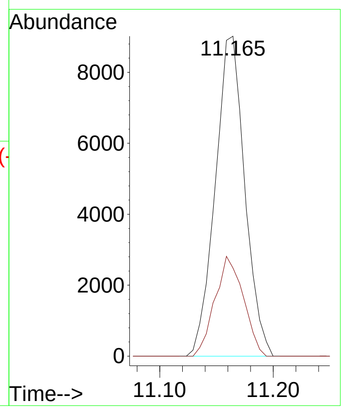
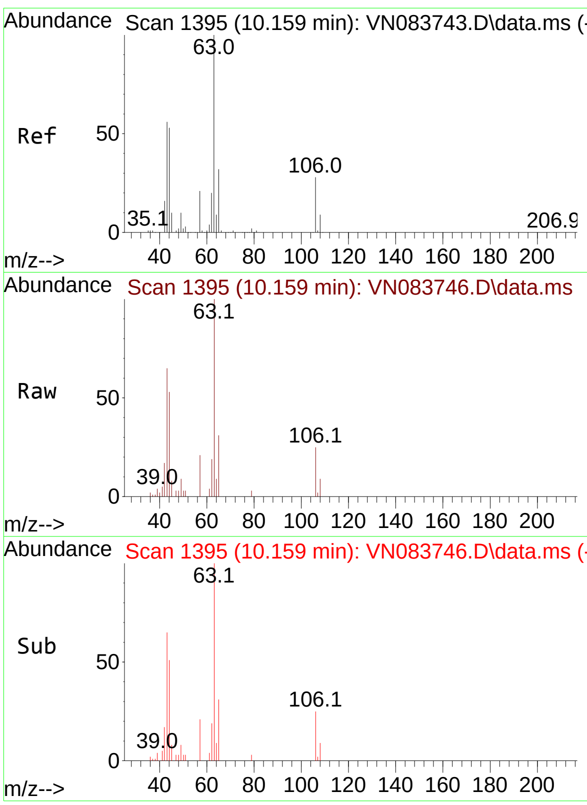


#57
1,3-Dichloropropane
Concen: 5.124 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 76 Resp: 1633

Ion	Ratio	Lower	Upper
76	100		
78	30.0	25.8	38.6

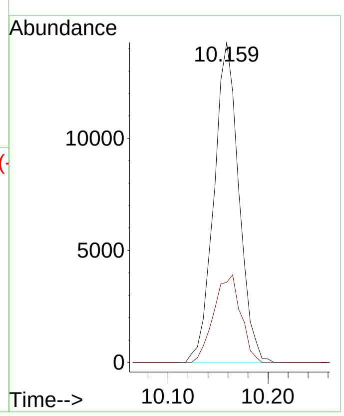




#58
2-Chloroethyl Vinyl ether
Concen: 24.016 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 63 Resp: 24698

Ion	Ratio	Lower	Upper
63	100		
106	29.6	23.3	34.9



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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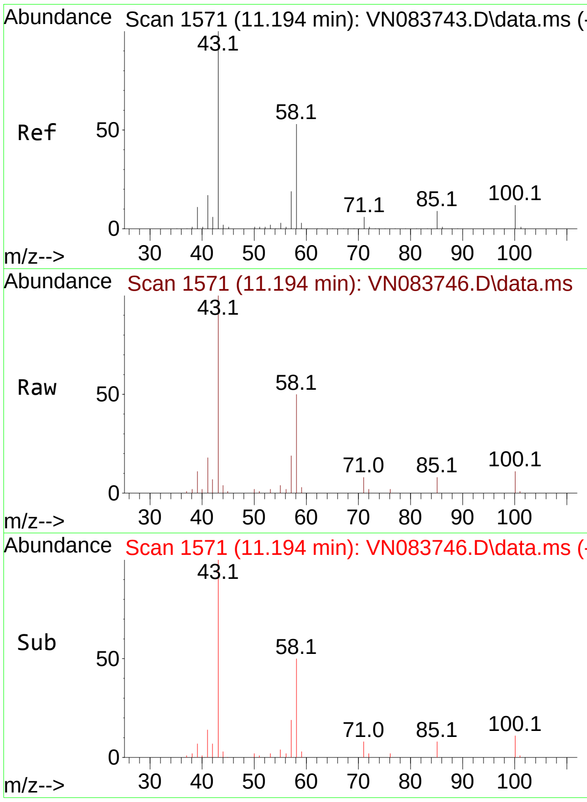
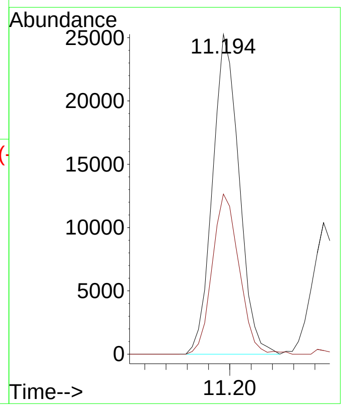
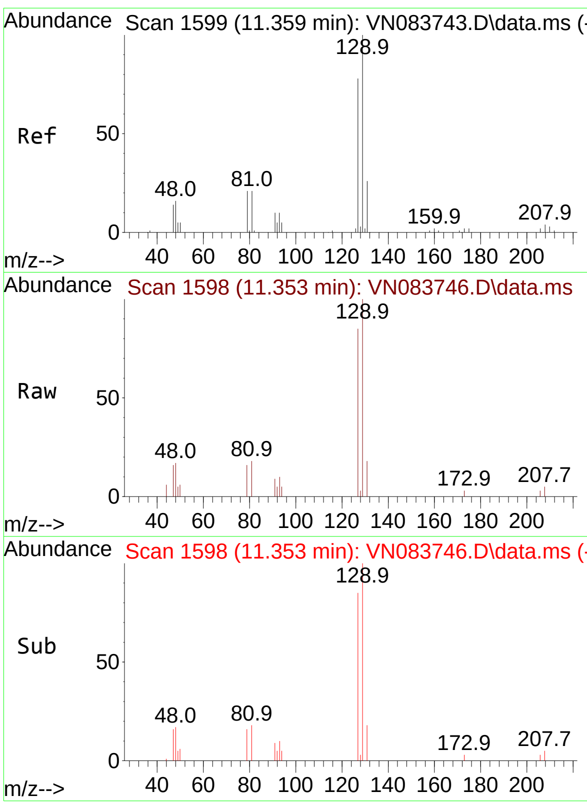


#59
2-Hexanone
Concen: 24.475 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 43 Resp: 4375

Ion	Ratio	Lower	Upper
43	100		
58	50.7	27.2	81.5

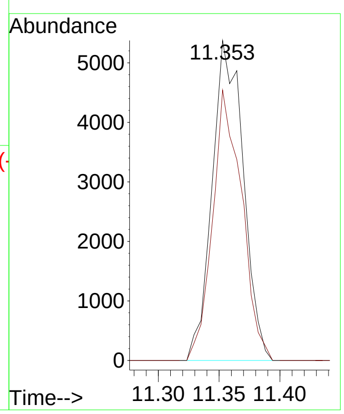


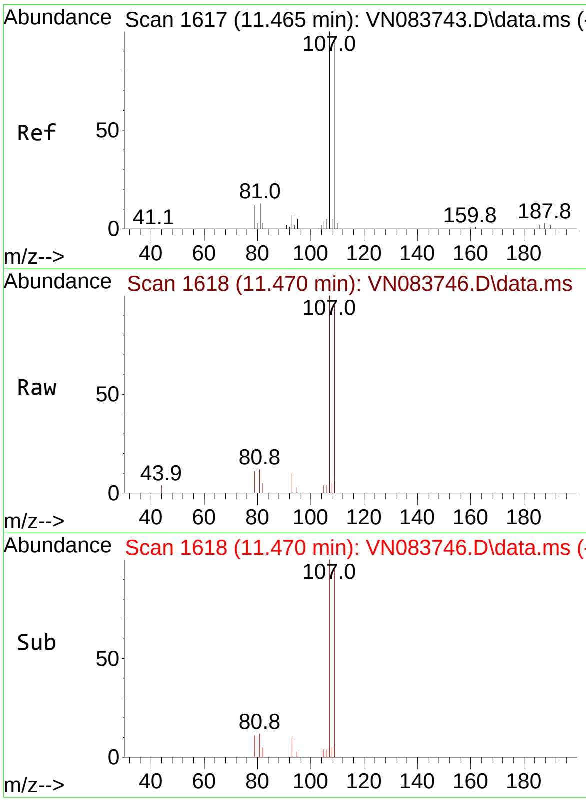


#60
Dibromochloromethane
Concen: 4.611 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:129 Resp: 9573

Ion	Ratio	Lower	Upper
129	100		
127	79.2	39.0	116.9

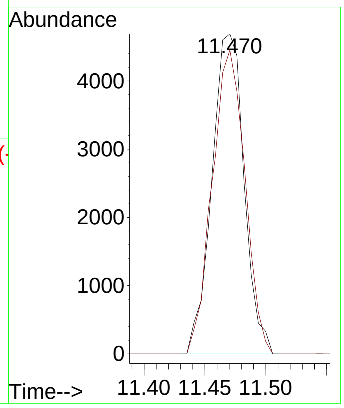




#61
1,2-Dibromoethane
Concen: 4.671 ug/l
RT: 11.470 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:107 Resp: 864

Ion	Ratio	Lower	Upper
107	100		
109	96.6	75.6	113.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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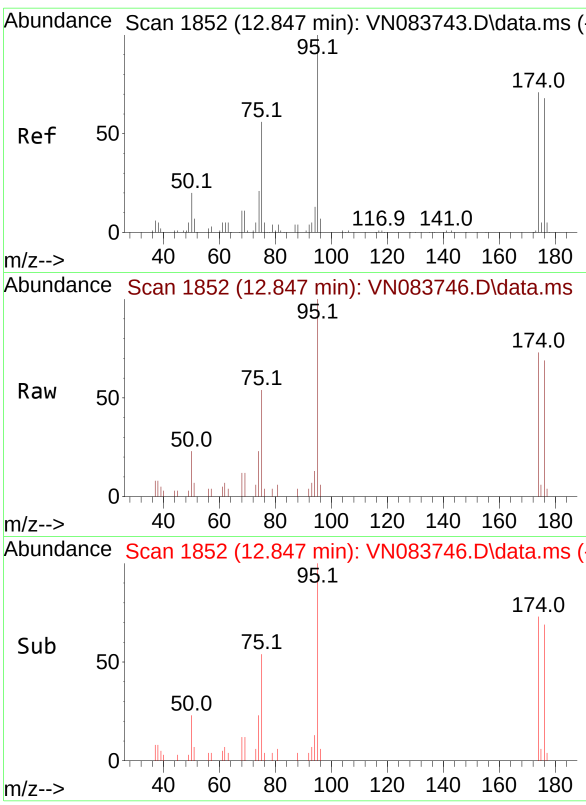
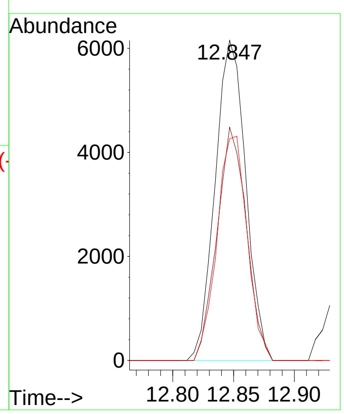
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

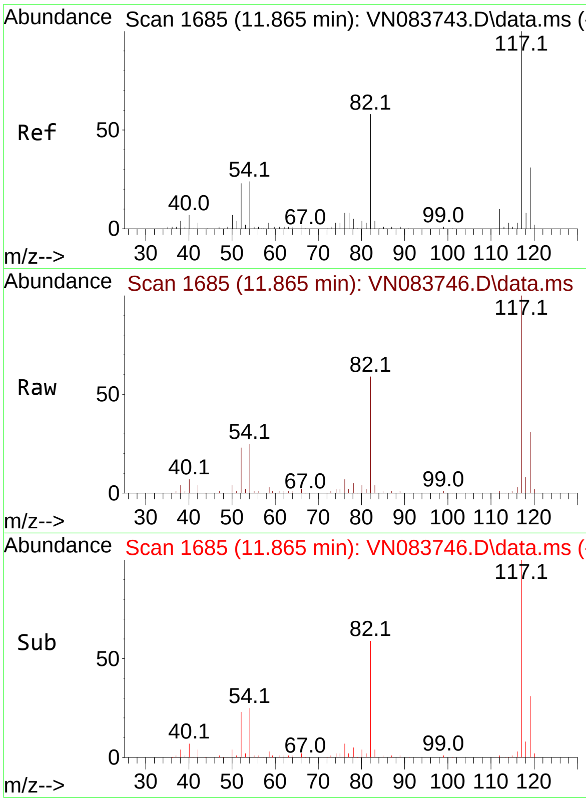


#62
4-Bromofluorobenzene
Concen: 4.226 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 95 Resp: 10808

Ion	Ratio	Lower	Upper
95	100		
174	69.9	0.0	139.8
176	69.4	0.0	131.4

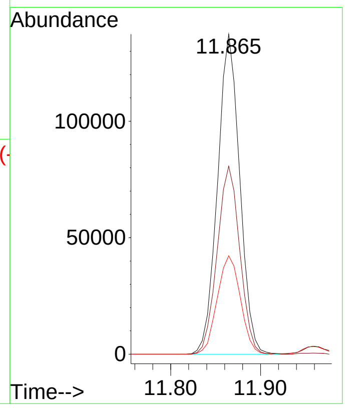




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:117 Resp: 23573

Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.4	71.0
119	30.7	26.3	39.5



Instrument : MSVOA_N
ClientSampleId : VSTDICC005

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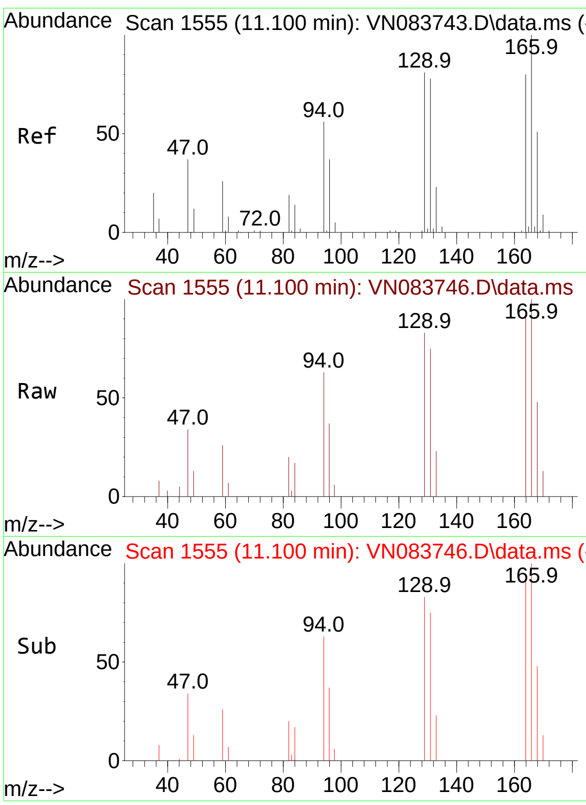
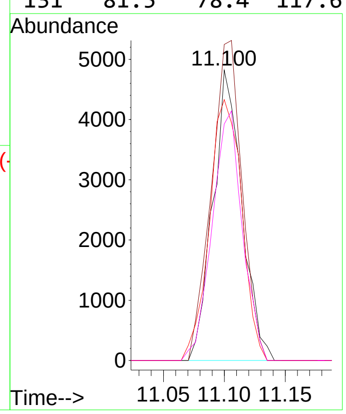


#64
Tetrachloroethene
Concen: 5.116 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:164 Resp: 8021

Ion	Ratio	Lower	Upper
164	100		
166	108.8	103.7	155.5
129	89.8	79.9	119.9
131	81.5	78.4	117.6



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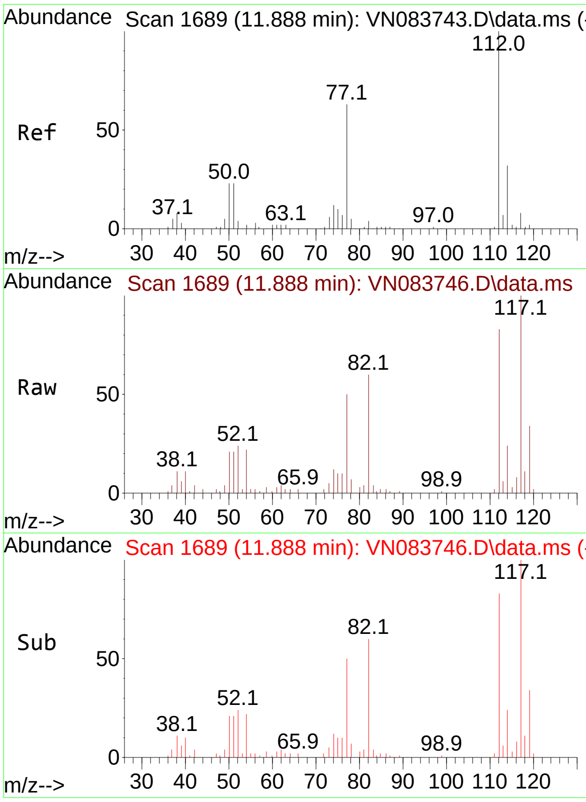

#65
Chlorobenzene
Concen: 4.973 ug/l
RT: 11.888 min   Scan# 1(
Delta R.T.   -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024   10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 2605

Ion	Ratio	Lower	Upper
112	100		
114	29.4	25.7	38.5

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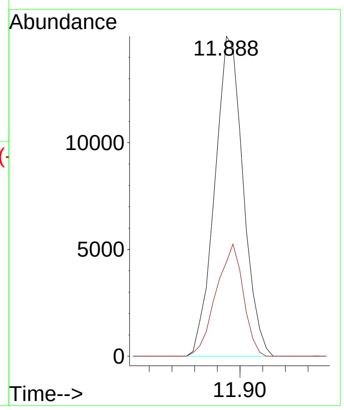

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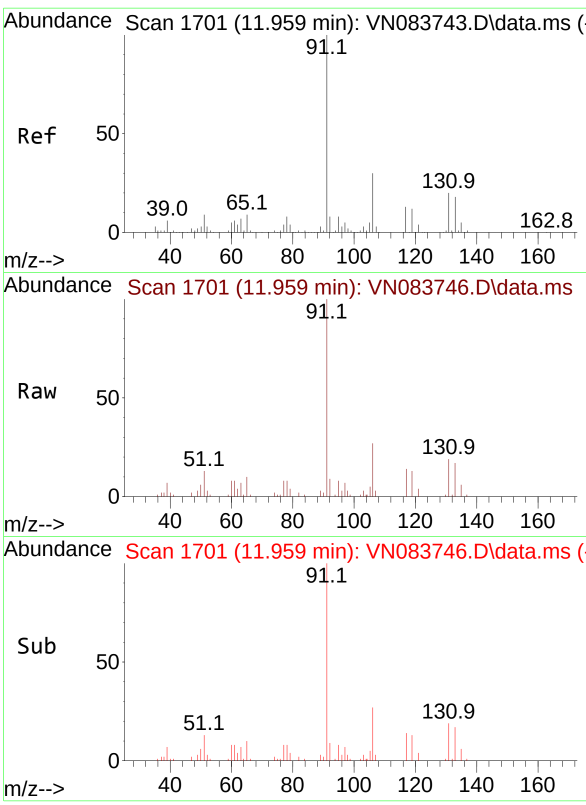
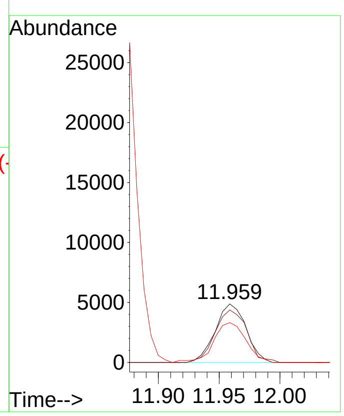
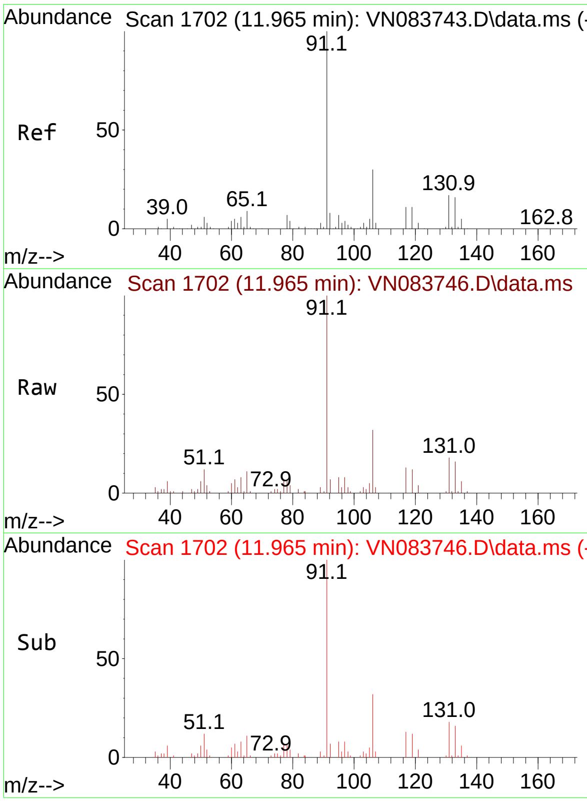


#66
1,1,1,2-Tetrachloroethane
Concen: 4.760 ug/l
RT: 11.959 min   Scan# 1701
Delta R.T.   -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024   10:44

Tgt Ion:131 Resp: 8646

Ion	Ratio	Lower	Upper
131	100		
133	92.2	47.5	142.6
119	70.7	31.6	94.8





#67
Ethyl Benzene
Concen: 4.785 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 91 Resp: 4453

Ion	Ratio	Lower	Upper
91	100		
106	31.8	24.3	36.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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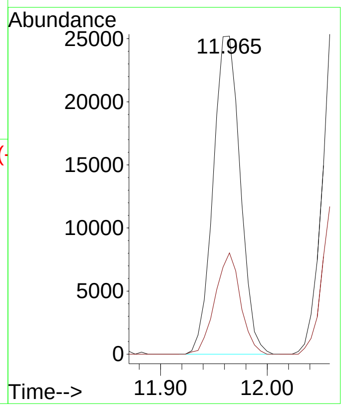
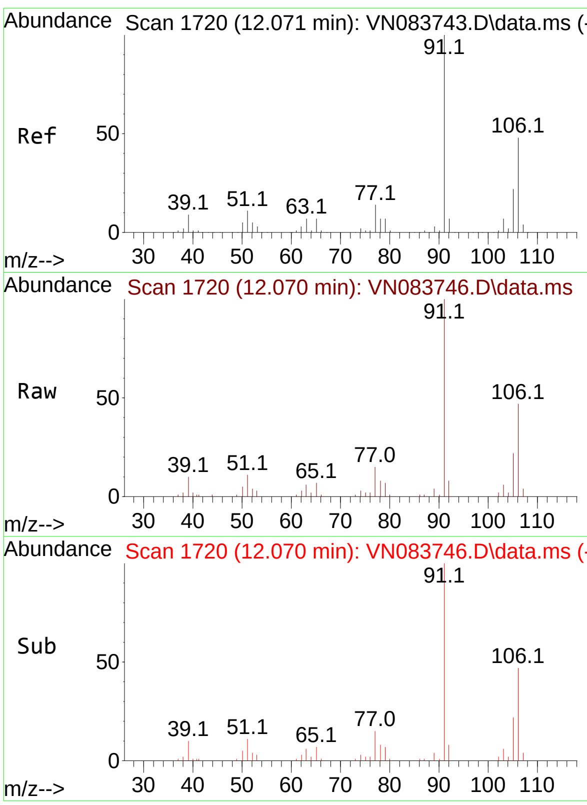
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

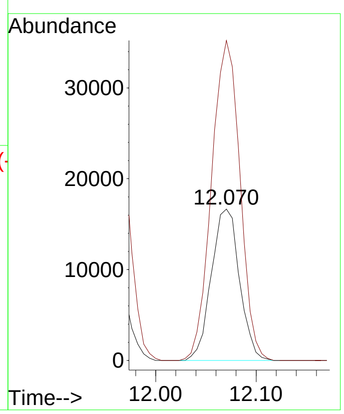


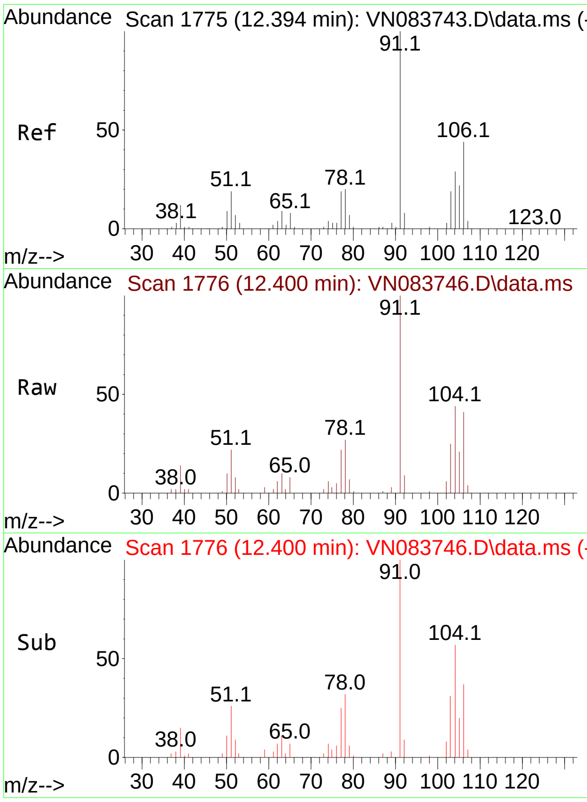


#68
m/p-Xylenes
Concen: 9.387 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:106 Resp: 32437

Ion	Ratio	Lower	Upper
106	100		
91	213.6	169.2	253.8





#69
o-Xylene
Concen: 4.706 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:106 Resp: 1574

Ion	Ratio	Lower	Upper
106	100		
91	232.9	112.9	338.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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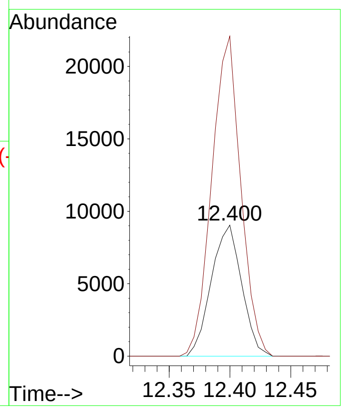
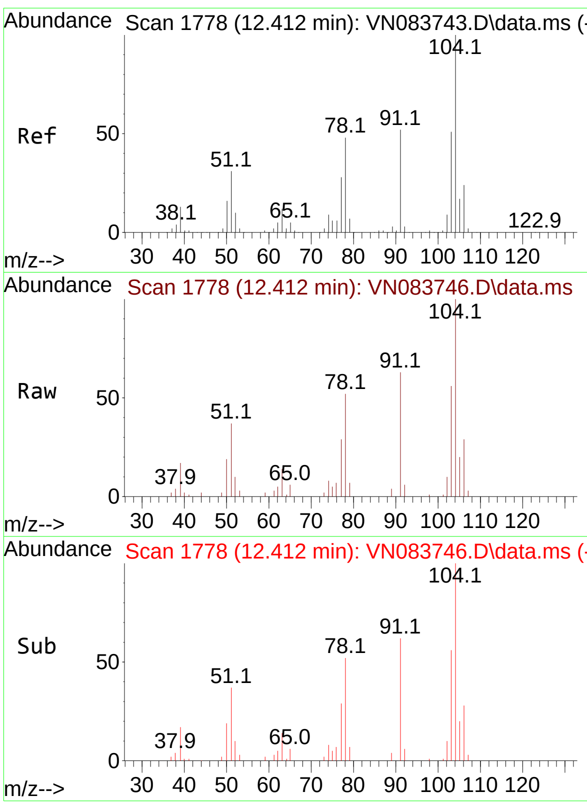
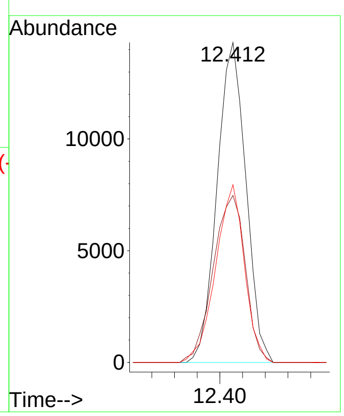


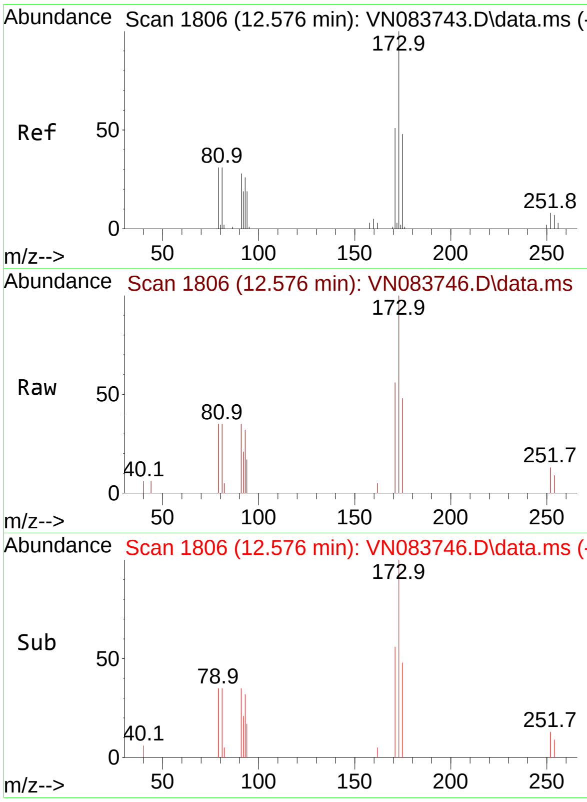


#70
Styrene
Concen: 4.604 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:104 Resp: 25276

Ion	Ratio	Lower	Upper
104	100		
78	58.2	43.3	64.9
103	55.5	43.4	65.2

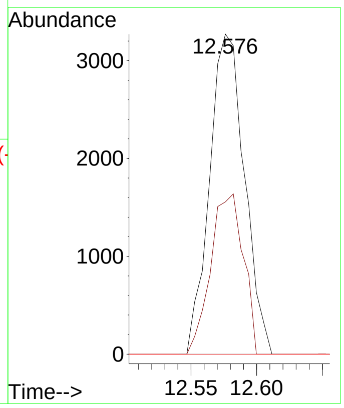




#71
Bromoform
Concen: 4.953 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:173 Resp: 606

Ion	Ratio	Lower	Upper
173	100		
175	46.8	24.1	72.2
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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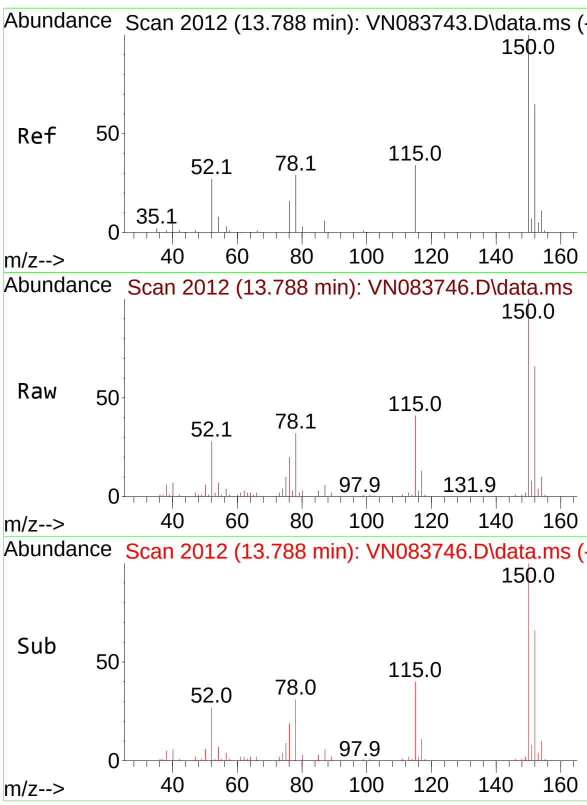
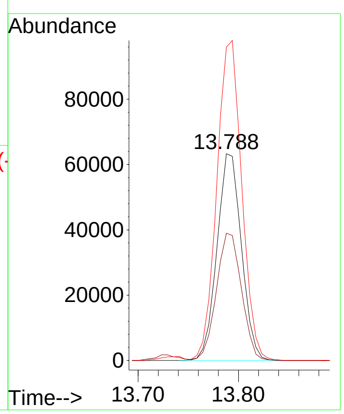
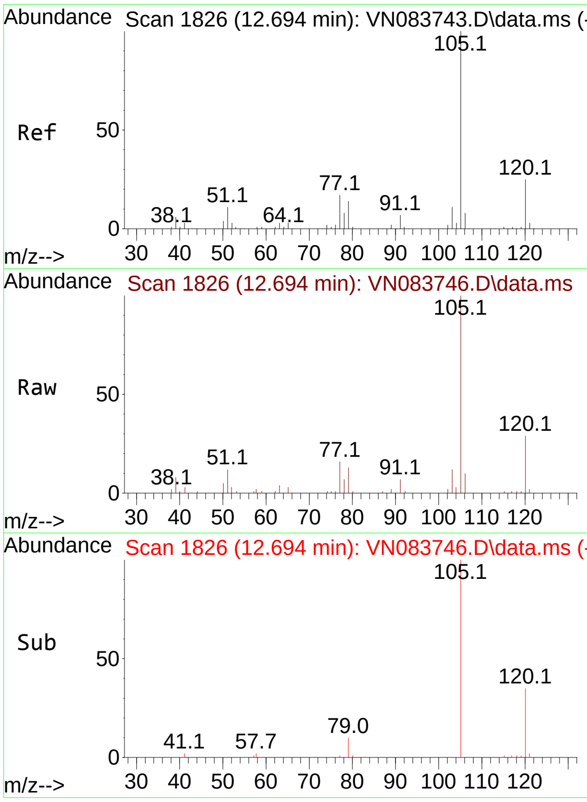


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:152 Resp: 107014

Ion	Ratio	Lower	Upper
152	100		
115	63.2	32.2	96.6
150	158.1	0.0	348.6





#73
Isopropylbenzene
Concen: 4.923 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 4075

Ion	Ratio	Lower	Upper
105	100		
120	27.8	12.6	37.8

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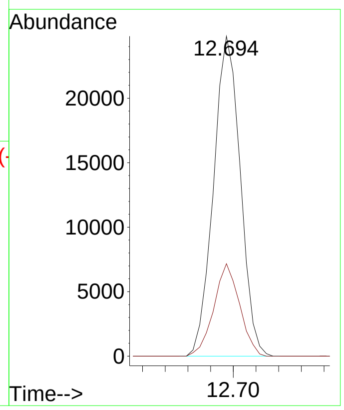

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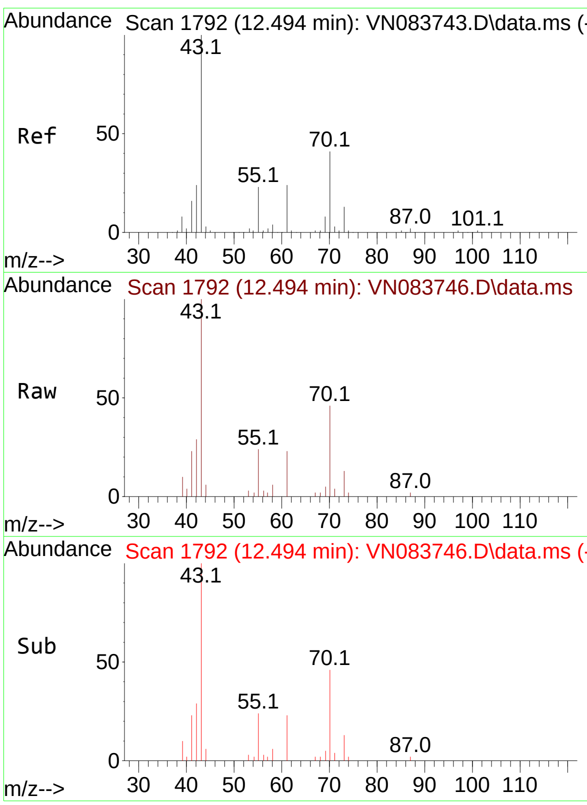
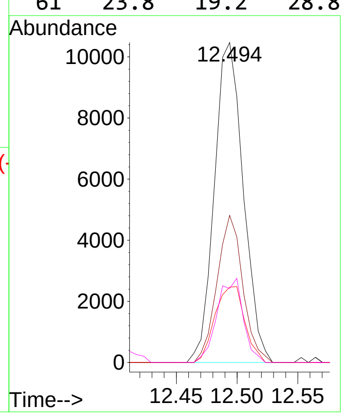
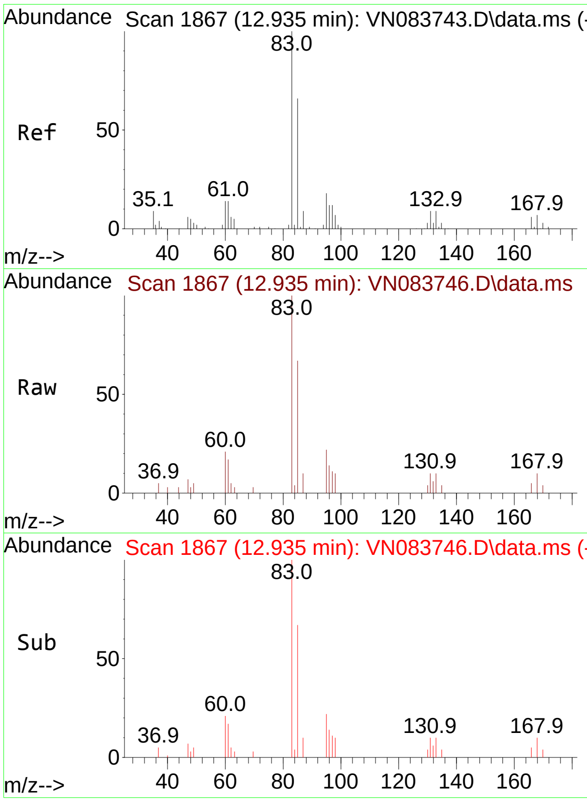


#74
N-amyl acetate
Concen: 4.903 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 43 Resp: 17318

Ion	Ratio	Lower	Upper
43	100		
70	41.1	34.5	51.7
55	24.5	18.6	28.0
61	23.8	19.2	28.8





#75
1,1,2,2-Tetrachloroethane
Concen: 5.197 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 83 Resp: 1264

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.2	15.6
85	65.0	31.9	95.9

Instrument : MSVOA_N
ClientSampleId : VSTDICC005

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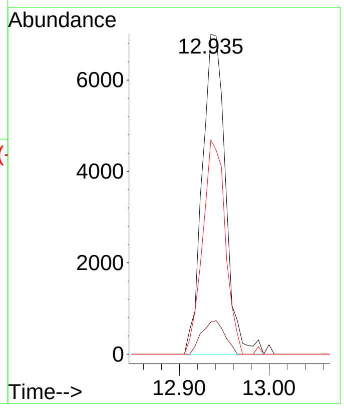
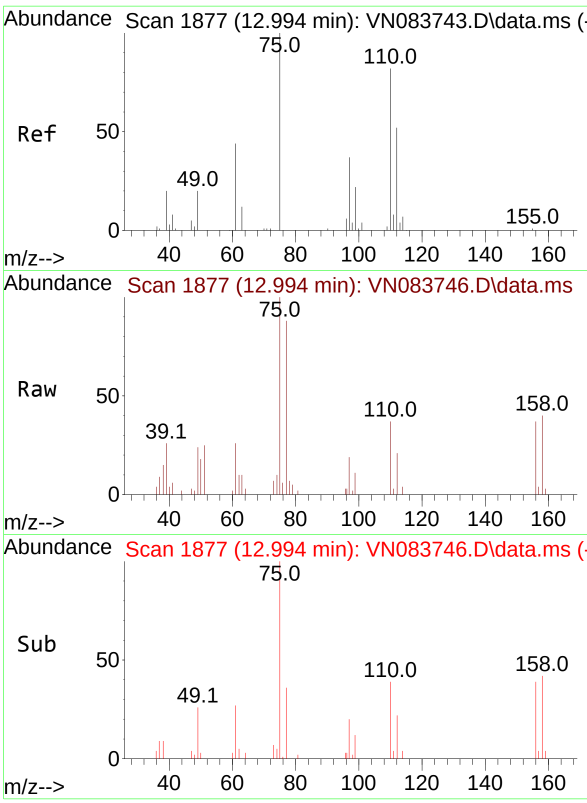
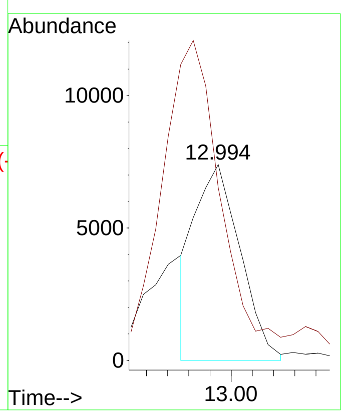


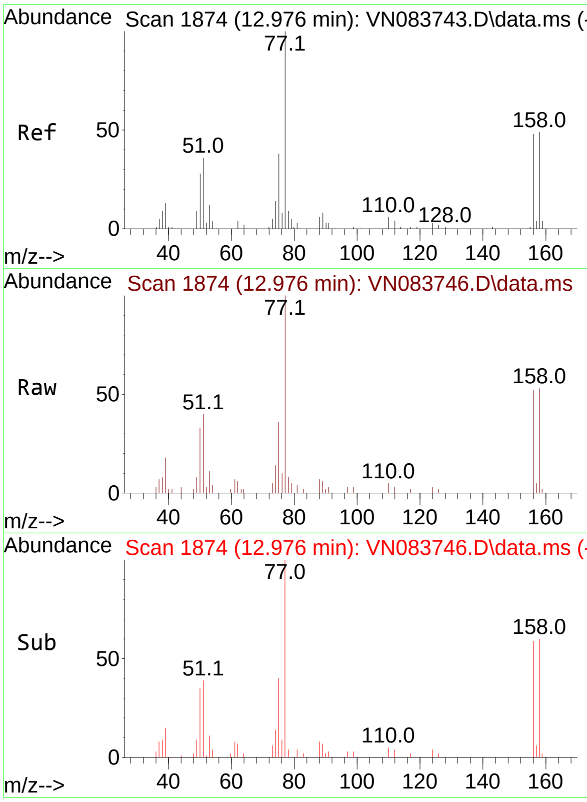


#76
1,2,3-Trichloropropane
Concen: 5.118 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 75 Resp: 11052

Ion	Ratio	Lower	Upper
75	100		
77	215.3	95.2	285.6





#77
Bromobenzene
Concen: 5.087 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:156 Resp: 1013

Ion	Ratio	Lower	Upper
156	100		
77	234.7	114.3	343.1
158	99.0	48.9	146.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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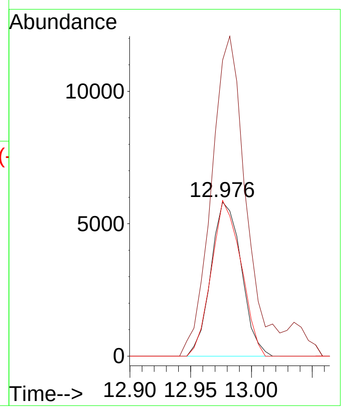
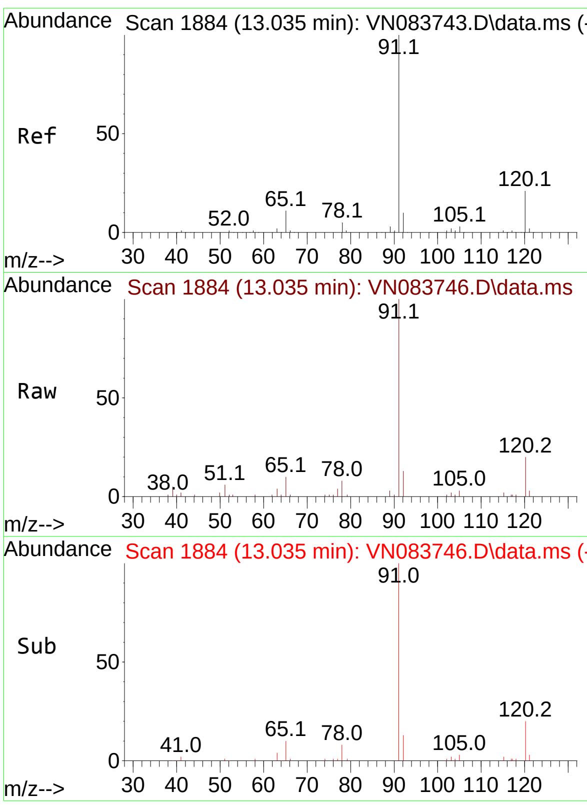
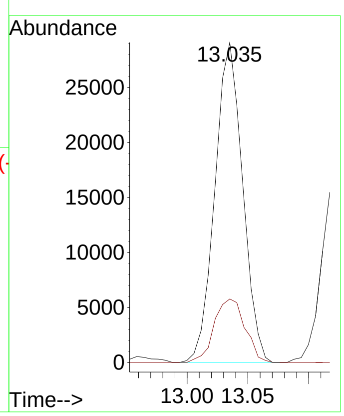


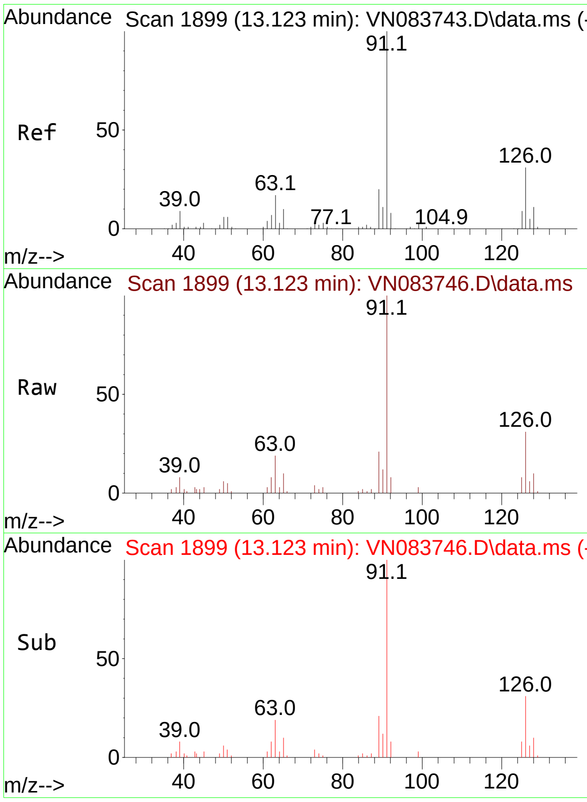


#78
n-propylbenzene
Concen: 4.799 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 91 Resp: 46229

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.0	33.0





#79
2-Chlorotoluene
Concen: 5.030 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 91 Resp: 30899

Ion	Ratio	Lower	Upper
91	100		
126	30.1	15.4	46.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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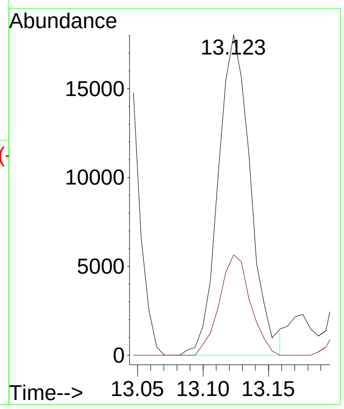
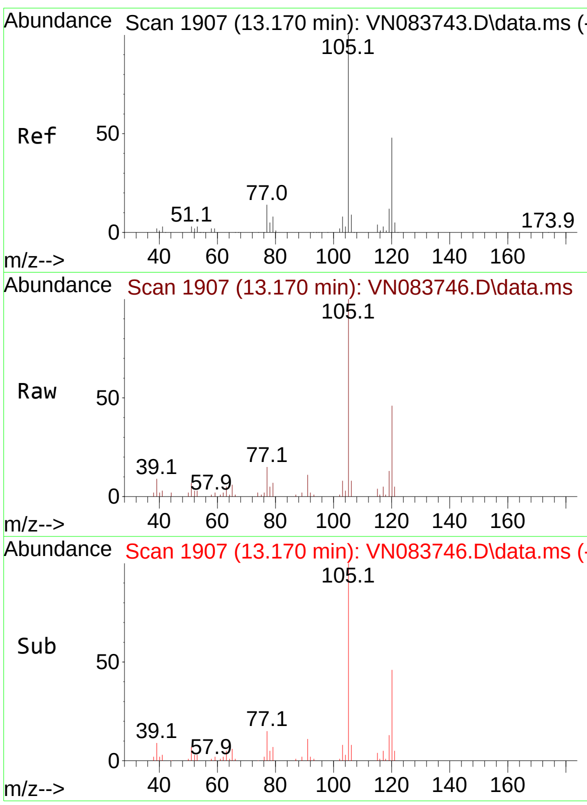
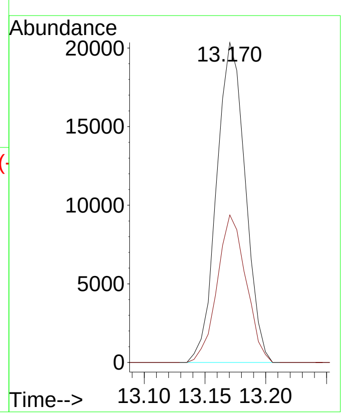


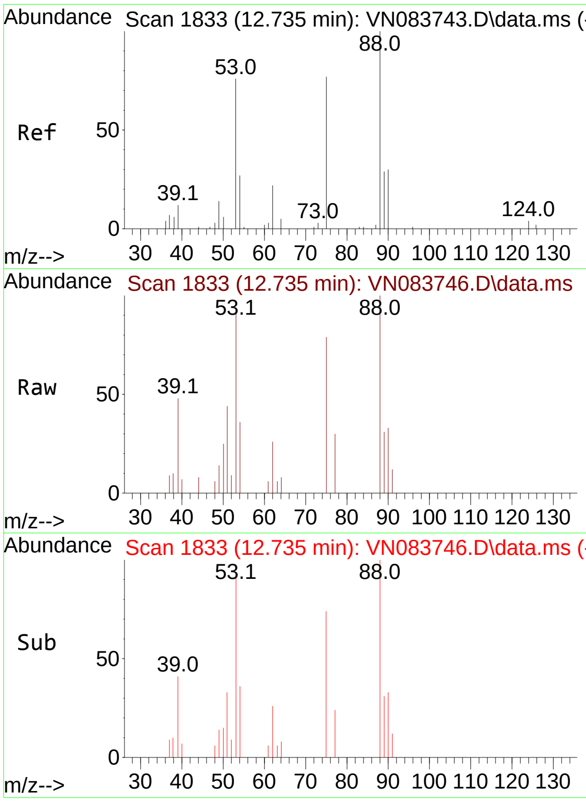


#80
1,3,5-Trimethylbenzene
Concen: 4.786 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:105 Resp: 33407

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.4	70.3





#81
trans-1,4-Dichloro-2-butene
Concen: 5.441 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 75 Resp: 448

Ion	Ratio	Lower	Upper
75	100		
53	108.5	81.2	121.8
89	38.2	35.7	53.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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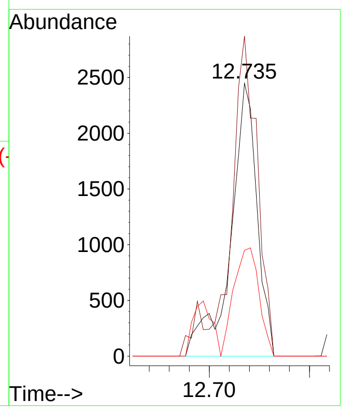
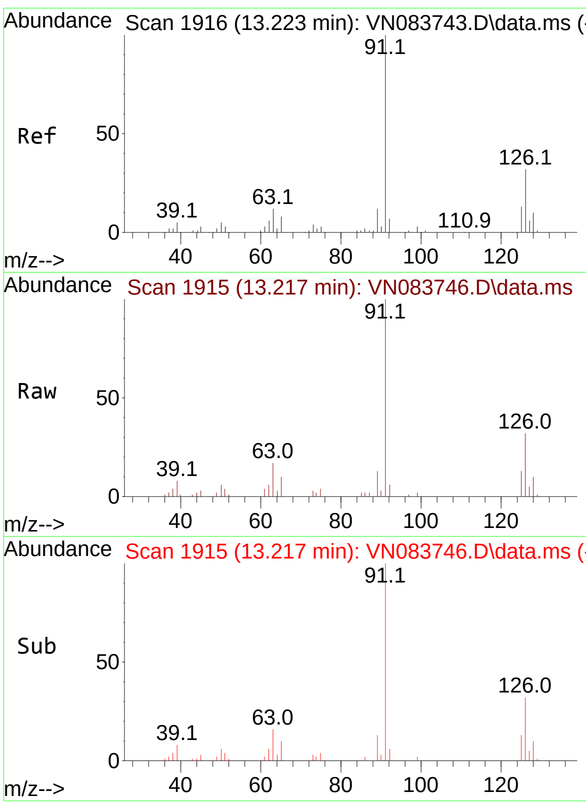
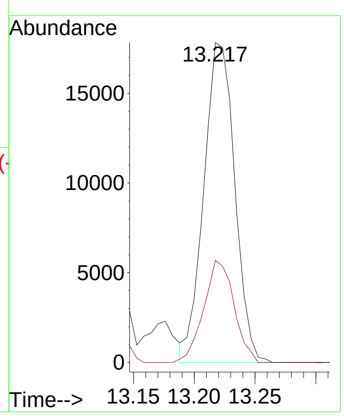


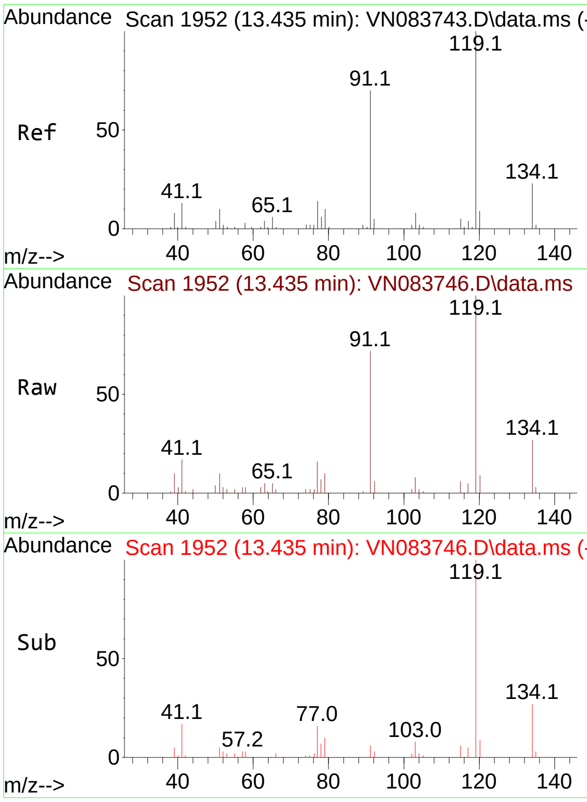


#82
4-Chlorotoluene
Concen: 5.126 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 91 Resp: 31603

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.4	46.2

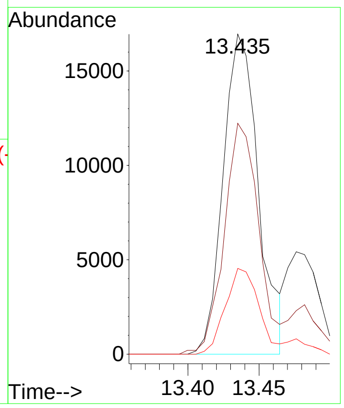




#83
tert-Butylbenzene
Concen: 4.777 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:119 Resp: 2917

Ion	Ratio	Lower	Upper
119	100		
91	70.7	34.5	103.6
134	25.5	12.8	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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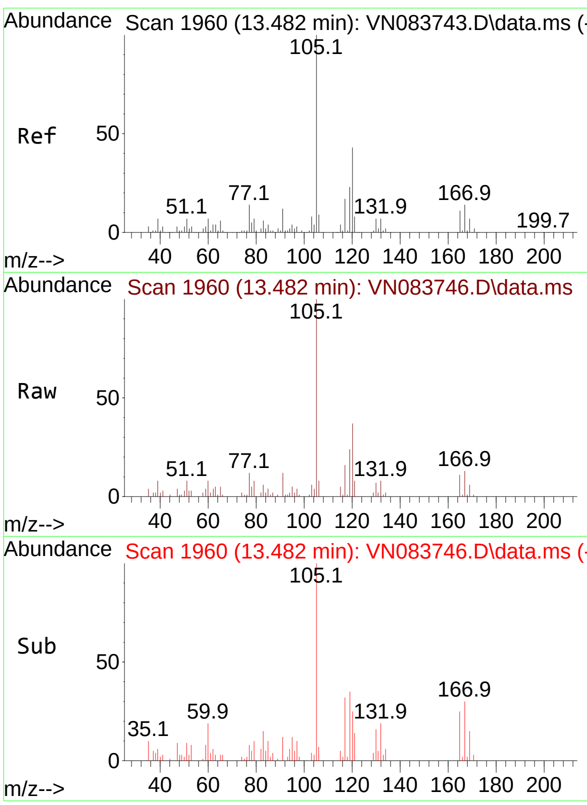
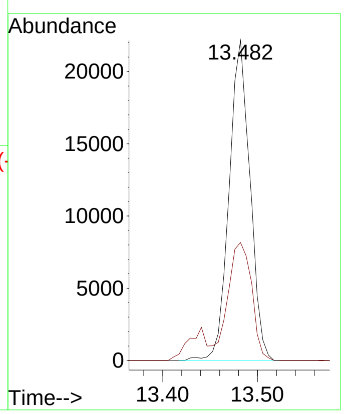
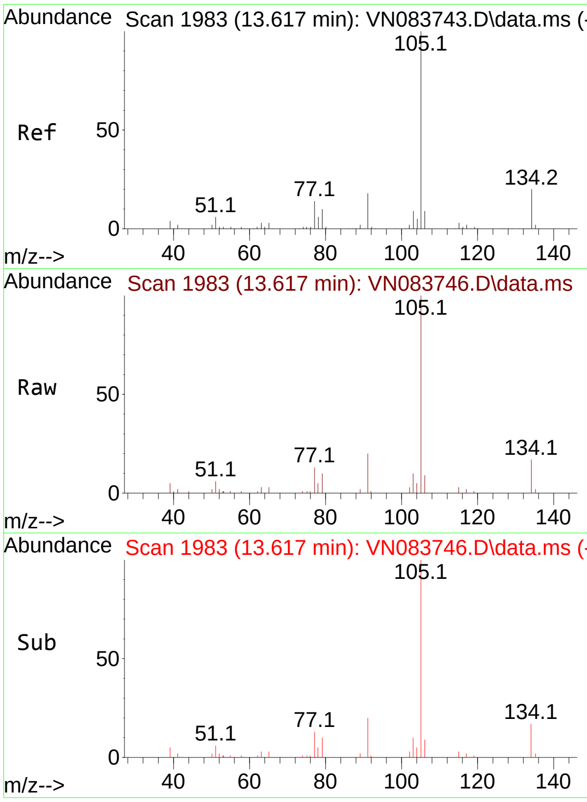


#84
1,2,4-Trimethylbenzene
Concen: 4.860 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:105 Resp: 34076

Ion	Ratio	Lower	Upper
105	100		
120	41.6	21.8	65.4





#85
sec-Butylbenzene
Concen: 4.934 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 3996

Ion	Ratio	Lower	Upper
105	100		
134	18.0	9.7	29.1

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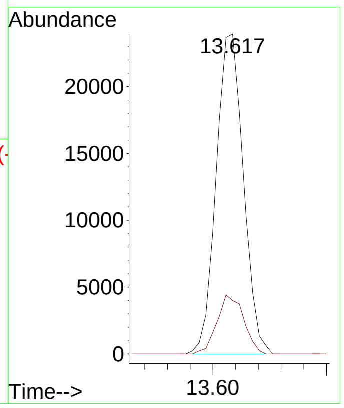

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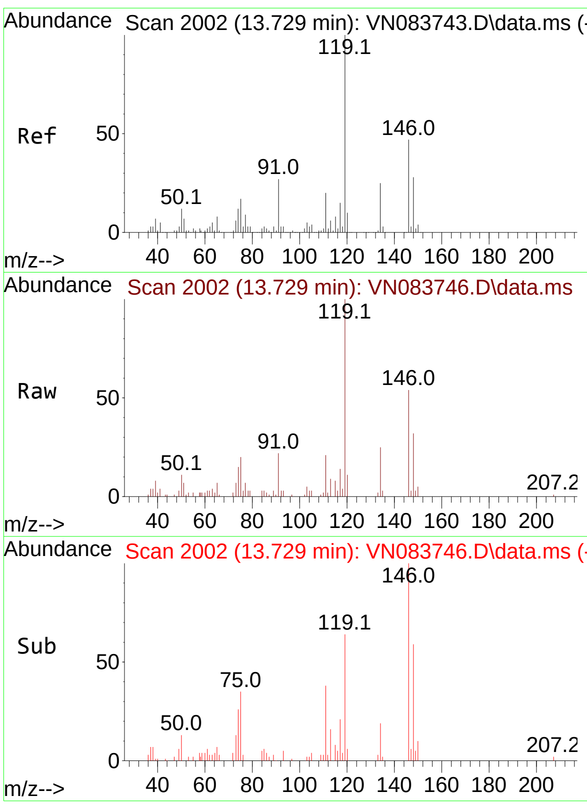
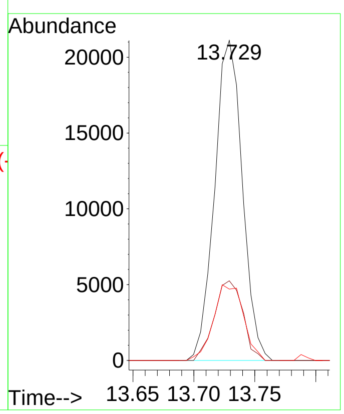
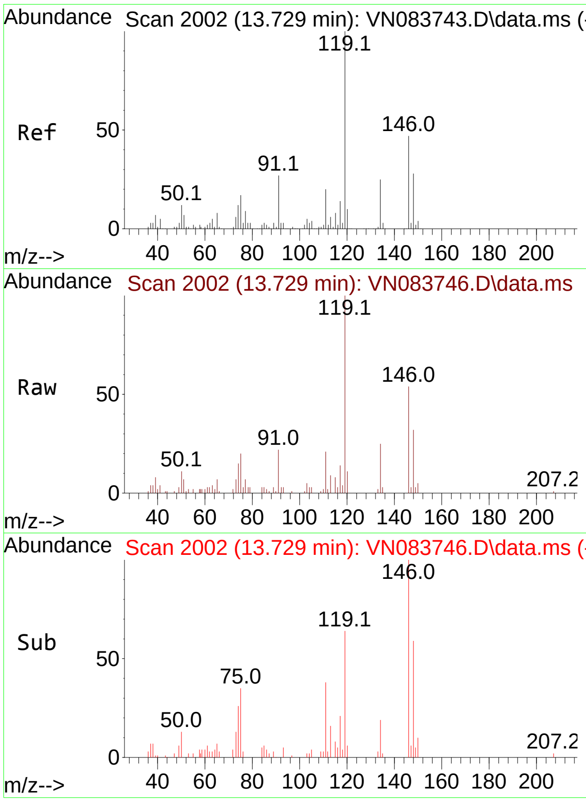


#86
p-Isopropyltoluene
Concen: 4.931 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:119 Resp: 33478

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.3
91	25.6	12.9	38.7

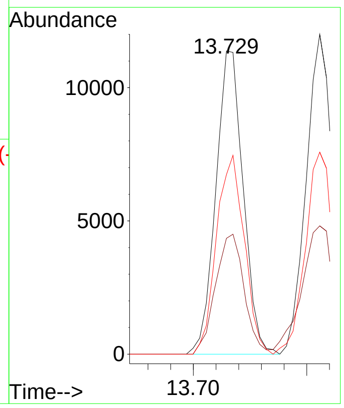




#87
1,3-Dichlorobenzene
Concen: 5.079 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:146 Resp: 1910

Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.7	65.1
148	66.8	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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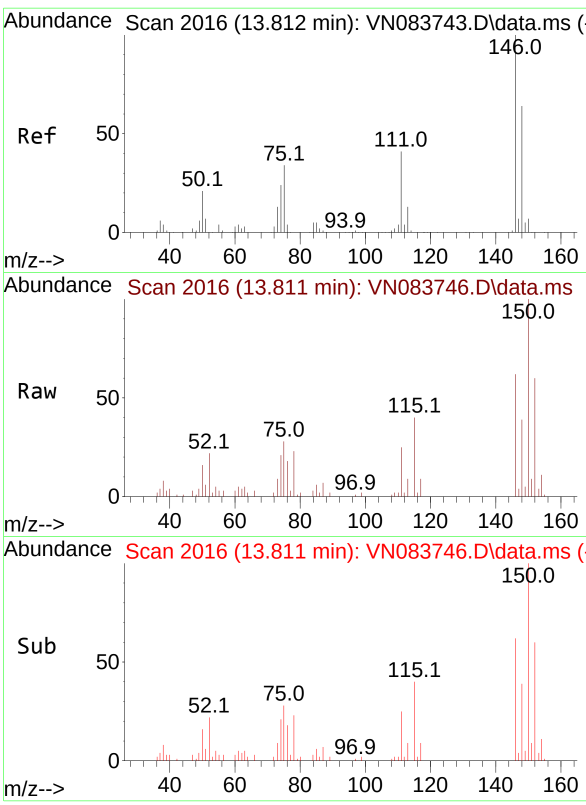
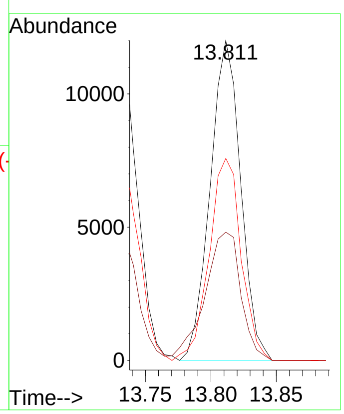


#88
1,4-Dichlorobenzene
Concen: 5.126 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:146 Resp: 19522

Ion	Ratio	Lower	Upper
146	100		
111	47.4	21.3	64.0
148	65.9	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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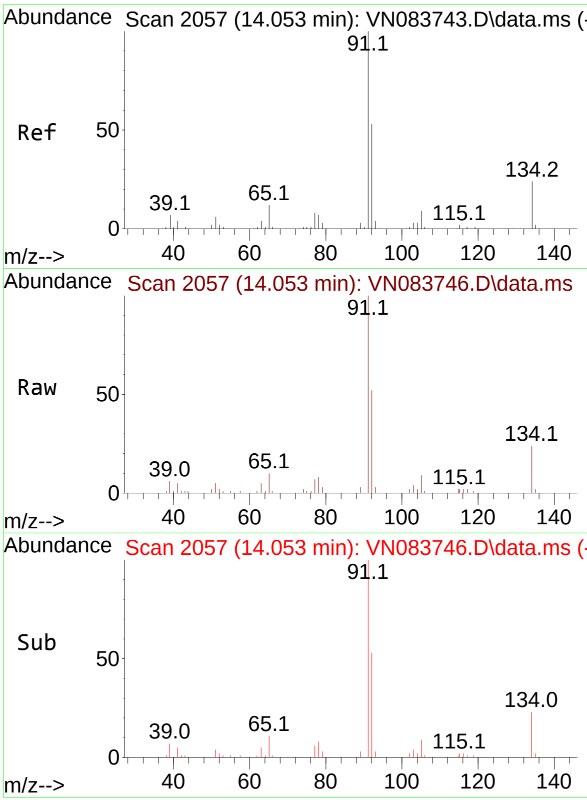
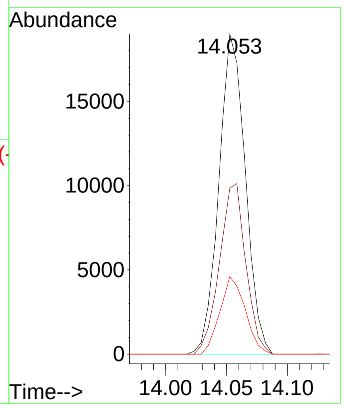
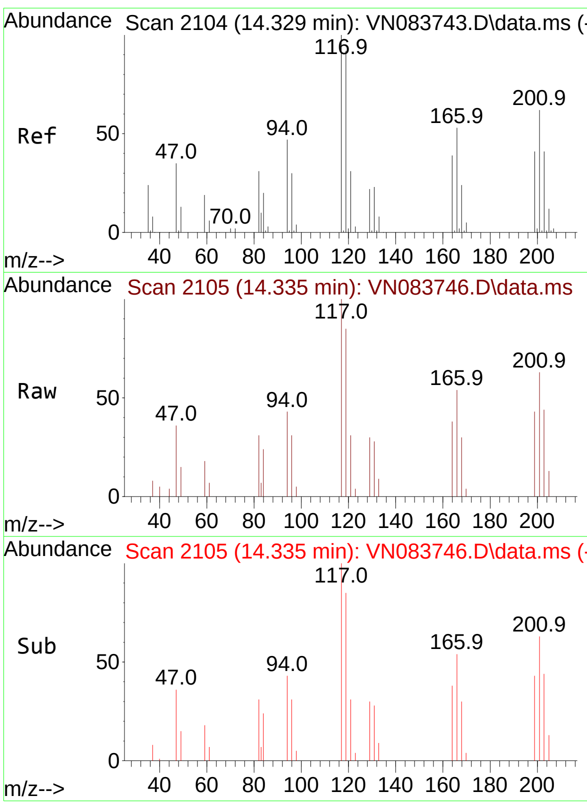



```
#89
n-Butylbenzene
Concen:    4.718 ug/l
RT:  14.053 min  Scan# 2(
Delta R.T.  -0.000 min
Lab File:   VN083746.D
Acq: 10 Sep 2024  10:44

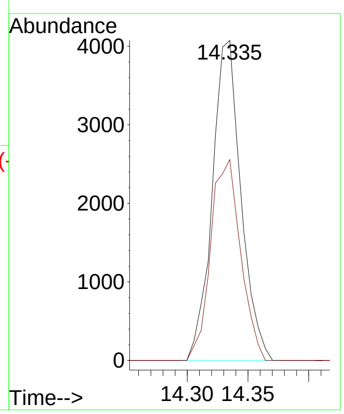
Tgt Ion: 91 Resp:   2875
Ion  Ratio  Lower  Upper
 91  100
 92   53.2   26.7   80.1
134   23.3   12.2   36.4
```






```
#90
Hexachloroethane
Concen:    4.910 ug/l
RT:  14.335 min  Scan# 2105
Delta R.T.  0.006 min
Lab File:   VN083746.D
Acq: 10 Sep 2024  10:44

Tgt Ion:117 Resp:    6701
Ion  Ratio  Lower  Upper
117  100
201   65.4   32.8   98.3
```

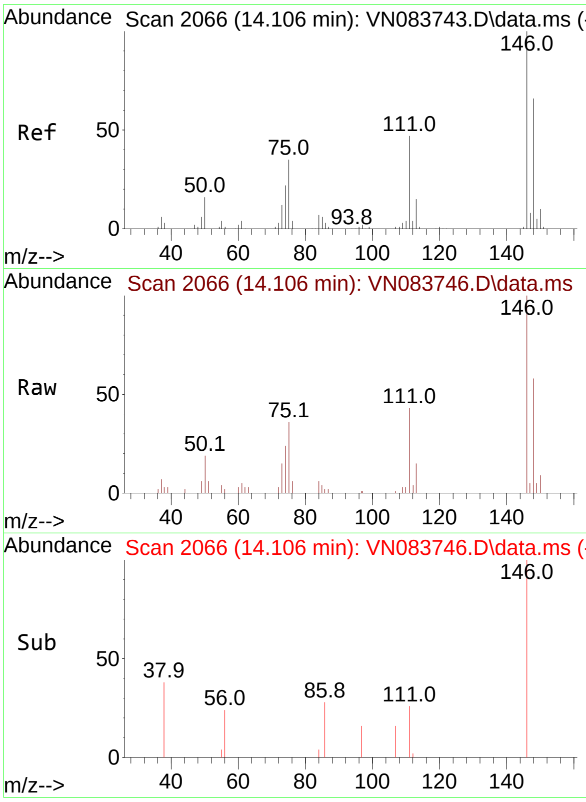


Instrument : MSVOA_N
ClientSampleId : VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

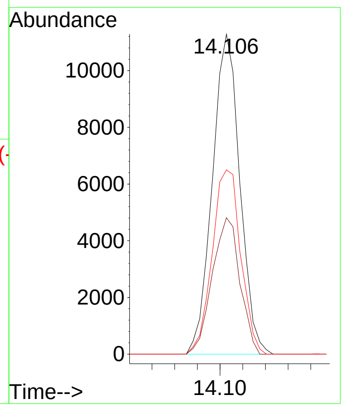
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

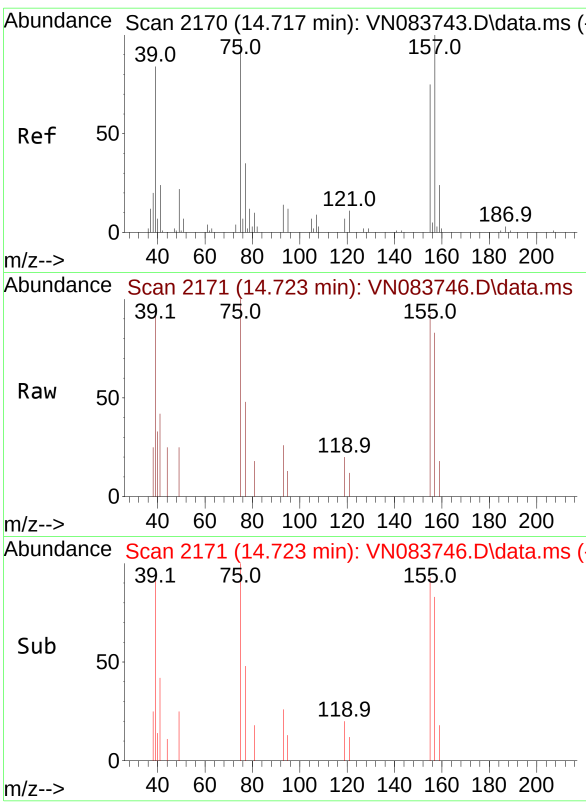


#91
1,2-Dichlorobenzene
Concen: 5.230 ug/l
RT: 14.106 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:146 Resp: 1898

Ion	Ratio	Lower	Upper
146	100		
111	43.1	22.8	68.3
148	60.0	32.1	96.5

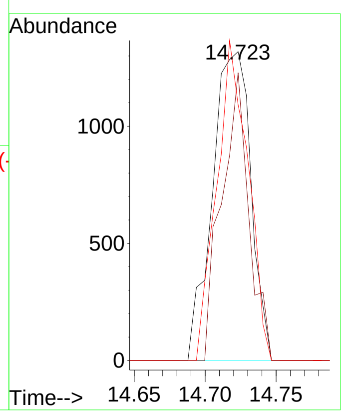




#92
1,2-Dibromo-3-Chloropropane
Concen: 5.135 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion: 75 Resp: 2490

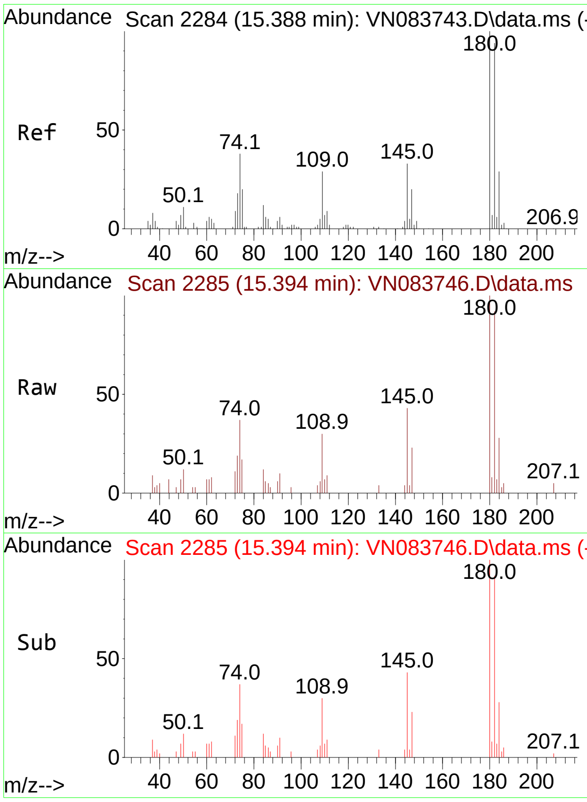
Ion	Ratio	Lower	Upper
75	100		
155	66.1	35.9	107.7
157	84.5	47.5	142.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

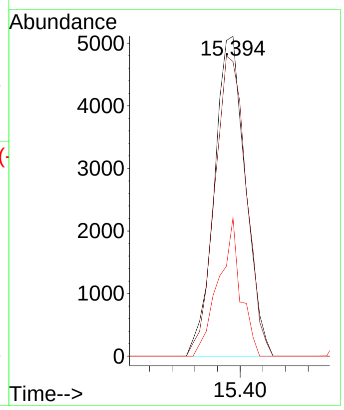
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

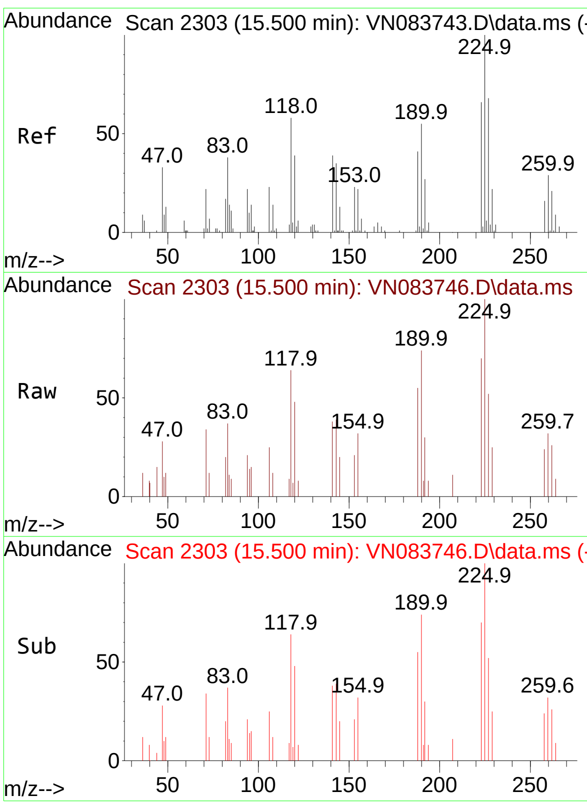


#93
1,2,4-Trichlorobenzene
Concen: 4.983 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:180 Resp: 970

Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.1	144.3
145	30.9	16.9	50.7

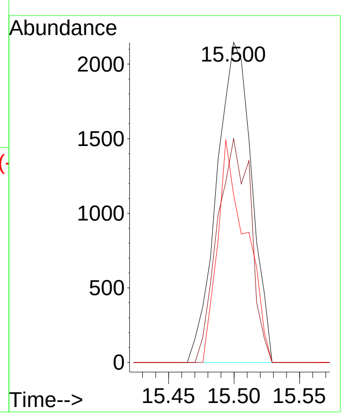




#94
Hexachlorobutadiene
Concen: 4.821 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

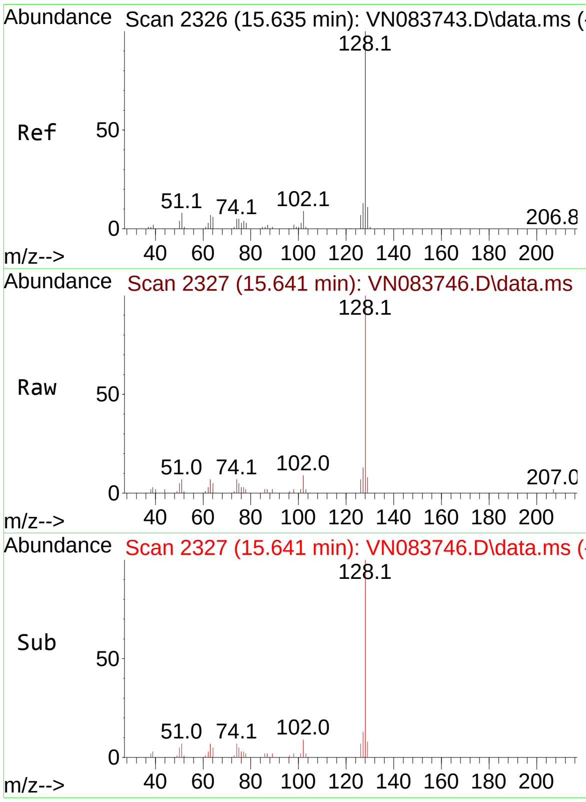
Tgt Ion:225 Resp: 3988

Ion	Ratio	Lower	Upper
225	100		
223	66.5	31.9	95.5
227	56.7	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

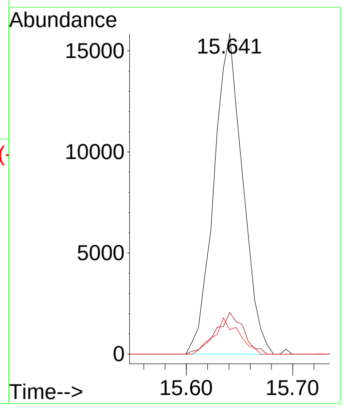
Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

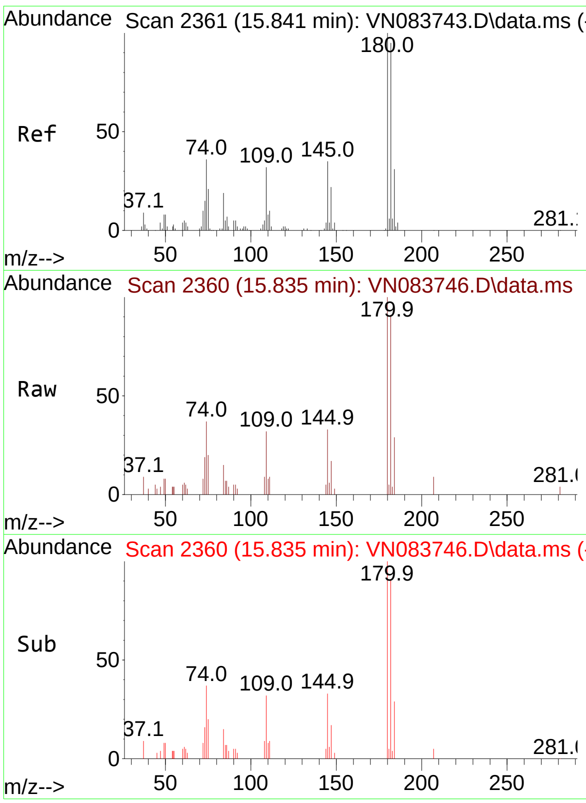


#95
Naphthalene
Concen: 5.023 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:128 Resp: 2976

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	10.0	8.7	13.1

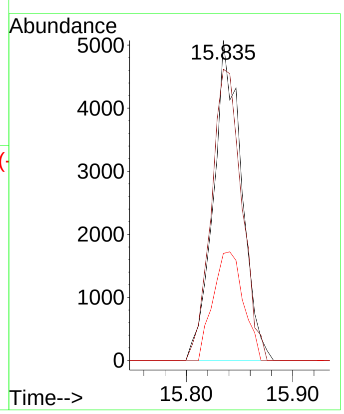




#96
1,2,3-Trichlorobenzene
Concen: 5.030 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN083746.D
Acq: 10 Sep 2024 10:44

Tgt Ion:180 Resp: 9363

Ion	Ratio	Lower	Upper
180	100		
182	98.5	47.1	141.4
145	36.5	17.8	53.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083747.D
Acq On : 10 Sep 2024 11:32
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 02:17:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:15:43 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.224	168	149471	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	268939	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	219654	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	91880	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000 ug/l	
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#	
35) Dibromofluoromethane	0.000	113	0d	0.000 ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#	
50) Toluene-d8	0.000	98	0d	0.000 ug/l	
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#	
62) 4-Bromofluorobenzene	0.000	95	0d	0.000 ug/l	
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.124	85	1767	1.018 ug/l	96
3) Chloromethane	2.359	50	3237m	1.531 ug/l	
4) Vinyl Chloride	2.512	62	1982	1.042 ug/l #	44
6) Chloroethane	3.065	64	1404m	1.064 ug/l	
7) Trichlorofluoromethane	3.471	101	3488	1.080 ug/l	96
8) Diethyl Ether	3.953	74	959	0.886 ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.348	101	1583	0.925 ug/l #	65
12) 1,1-Dichloroethene	4.318	96	1527	0.945 ug/l	93
14) Allyl chloride	5.012	41	2756	0.957 ug/l #	80
15) Acrylonitrile	5.724	53	4223	5.145 ug/l	98
16) Acetone	4.436	43	4474	4.952 ug/l	95
17) Carbon Disulfide	4.700	76	5090	1.126 ug/l #	75
18) Methyl Acetate	5.036	43	3089m	1.407 ug/l	
19) Methyl tert-butyl Ether	5.794	73	5672	0.970 ug/l #	83
20) Methylene Chloride	5.277	84	1922	1.040 ug/l #	75
21) trans-1,2-Dichloroethene	5.765	96	1745	1.007 ug/l #	67
22) Diisopropyl ether	6.665	45	5555	0.937 ug/l #	92
23) Vinyl Acetate	6.600	43	19588	4.511 ug/l #	90
24) 1,1-Dichloroethane	6.565	63	3493	1.022 ug/l #	82
25) 2-Butanone	7.489	43	6127	5.160 ug/l #	57
26) 2,2-Dichloropropane	7.489	77	2982	0.948 ug/l	94
27) cis-1,2-Dichloroethene	7.477	96	2052	0.998 ug/l	92
28) Bromochloromethane	7.806	49	1257	0.874 ug/l #	90
29) Tetrahydrofuran	7.853	42	3436	4.893 ug/l	99
30) Chloroform	7.959	83	3528	0.973 ug/l	91
32) 1,1,1-Trichloroethane	8.159	97	3233	0.969 ug/l #	52
36) 1,1-Dichloropropene	8.371	75	2706	1.044 ug/l	85
37) Ethyl Acetate	7.547	43	2070	0.880 ug/l #	88
38) Carbon Tetrachloride	8.365	117	2768	0.942 ug/l #	76
39) Methylcyclohexane	9.606	83	2729	0.925 ug/l #	84
40) Benzene	8.594	78	7797	1.000 ug/l #	90
41) Methacrylonitrile	7.765	41	1496m	1.075 ug/l	
42) 1,2-Dichloroethane	8.671	62	2671	0.916 ug/l	83
43) Isopropyl Acetate	8.683	43	4202	0.986 ug/l #	98
44) Trichloroethene	9.347	130	1904	1.054 ug/l	99
45) 1,2-Dichloropropane	9.630	63	1824	0.968 ug/l #	83

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083747.D
Acq On : 10 Sep 2024 11:32
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 02:17:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:15:43 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Dibromomethane	9.712	93	1144	0.866 ug/l	95
47) Bromodichloromethane	9.888	83	2654	0.929 ug/l #	88
48) Methyl methacrylate	9.688	41	1957	0.968 ug/l	98
49) 1,4-Dioxane	9.700	88	754	22.664 ug/l #	60
51) 4-Methyl-2-Pentanone	10.447	43	10889	4.693 ug/l	98
52) Toluene	10.624	92	4412	0.925 ug/l	98
53) t-1,3-Dichloropropene	10.835	75	2794	0.965 ug/l	91
54) cis-1,3-Dichloropropene	10.312	75	2742	0.901 ug/l	90
55) 1,1,2-Trichloroethane	11.024	97	1858	1.043 ug/l #	65
56) Ethyl methacrylate	10.871	69	2275	0.830 ug/l	96
57) 1,3-Dichloropropane	11.165	76	2755	0.900 ug/l	93
58) 2-Chloroethyl Vinyl ether	10.159	63	3831	3.880 ug/l	98
59) 2-Hexanone	11.194	43	7463	4.348 ug/l	95
60) Dibromochloromethane	11.353	129	1813	0.910 ug/l	92
61) 1,2-Dibromoethane	11.471	107	1838	1.035 ug/l	88
64) Tetrachloroethene	11.106	164	1497	1.025 ug/l	86
65) Chlorobenzene	11.888	112	5253	1.076 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.953	131	1672	0.988 ug/l #	65
67) Ethyl Benzene	11.965	91	8403	0.969 ug/l	91
68) m/p-Xylenes	12.076	106	6267	1.946 ug/l	95
69) o-Xylene	12.394	106	2885	0.926 ug/l	98
70) Styrene	12.412	104	4834	0.945 ug/l	99
71) Bromoform	12.576	173	981	0.860 ug/l #	92
73) Isopropylbenzene	12.694	105	6908	0.972 ug/l	99
74) N-amyl acetate	12.494	43	3100	1.022 ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.935	83	2386	1.142 ug/l	84
76) 1,2,3-Trichloropropane	12.988	75	2066m	1.114 ug/l	
77) Bromobenzene	12.982	156	1996	1.167 ug/l	97
78) n-propylbenzene	13.035	91	8379	1.013 ug/l	98
79) 2-Chlorotoluene	13.123	91	5437	1.031 ug/l	95
80) 1,3,5-Trimethylbenzene	13.170	105	6080	1.015 ug/l	96
82) 4-Chlorotoluene	13.218	91	5495	1.038 ug/l	92
83) tert-Butylbenzene	13.435	119	5311	1.013 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	5912	0.982 ug/l	94
85) sec-Butylbenzene	13.618	105	6408	0.922 ug/l	93
86) p-Isopropyltoluene	13.729	119	5592	0.959 ug/l	95
87) 1,3-Dichlorobenzene	13.729	146	3851	1.193 ug/l	98
88) 1,4-Dichlorobenzene	13.818	146	3958m	1.210 ug/l	
89) n-Butylbenzene	14.053	91	5621	1.074 ug/l	93
90) Hexachloroethane	14.335	117	1285	1.097 ug/l	81
91) 1,2-Dichlorobenzene	14.106	146	3418	1.097 ug/l	90
92) 1,2-Dibromo-3-Chloropr...	14.717	75	404	0.970 ug/l #	66
93) 1,2,4-Trichlorobenzene	15.394	180	1907	1.140 ug/l	90
94) Hexachlorobutadiene	15.500	225	848	1.194 ug/l #	47
95) Naphthalene	15.641	128	5160	1.014 ug/l	97
96) 1,2,3-Trichlorobenzene	15.841	180	1803	1.128 ug/l	92

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

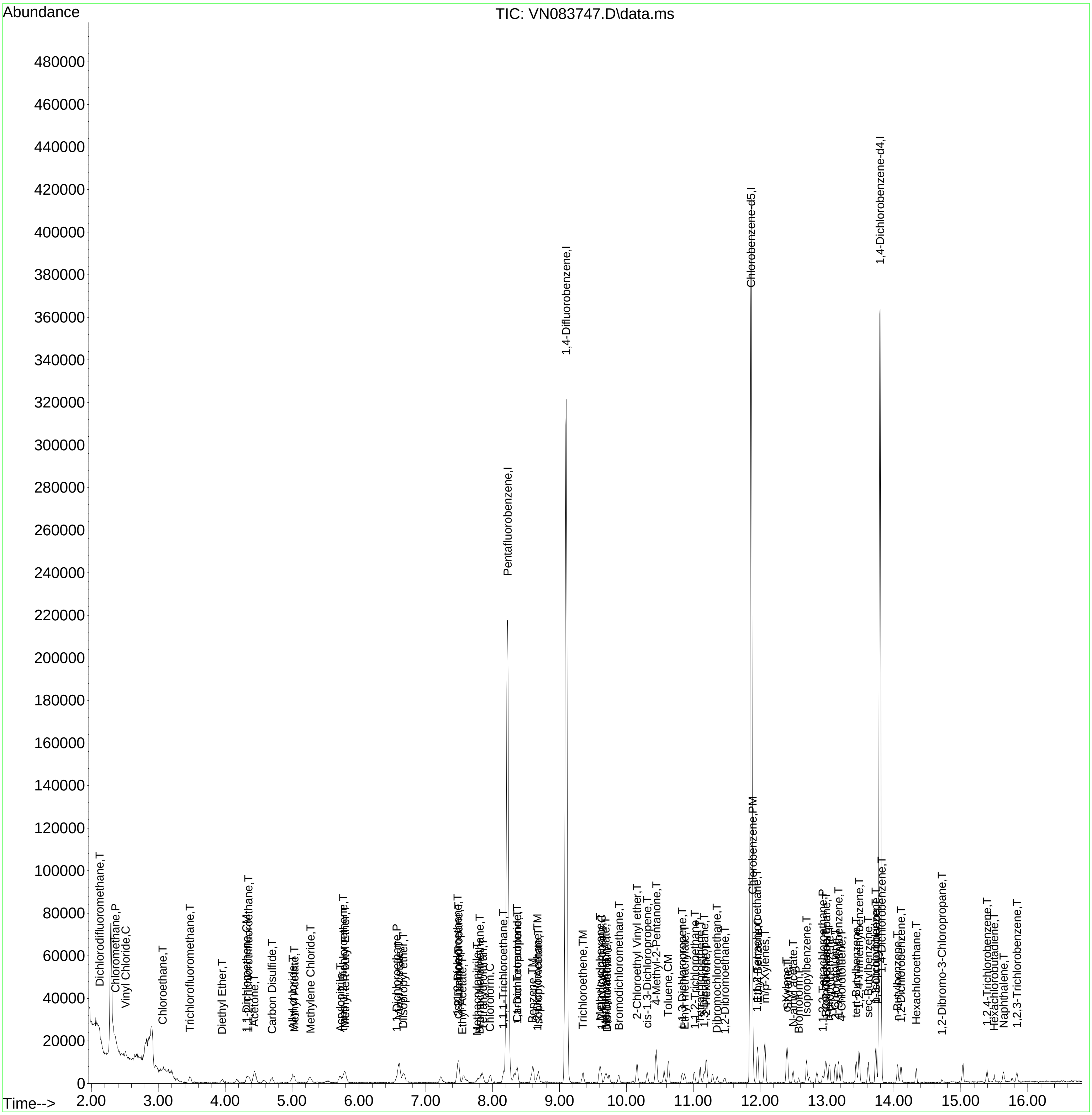
ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083747.D
Acq On   : 10 Sep 2024 11:32
Operator : JC\MD
Sample   : VSTDICC001
Misc   : 5.0mL/MSVOA_N/WATER
ALS Vial : 8   Sample Multiplier: 1

Quant Time: Sep 11 02:17:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:15:43 2024
Response via : Initial Calibration

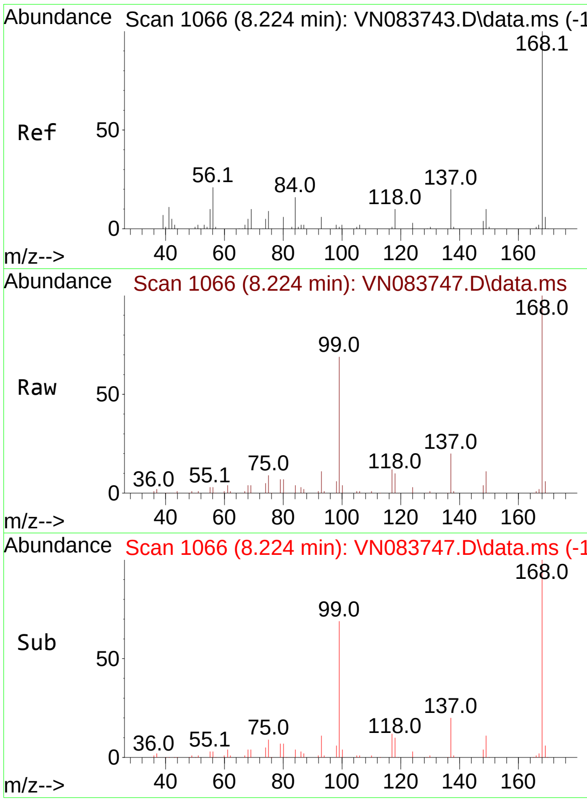
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED
Reviewed By :John Carlone   09/11/2024
Supervised By :Semsettin Yesilyurt   09/11/2024



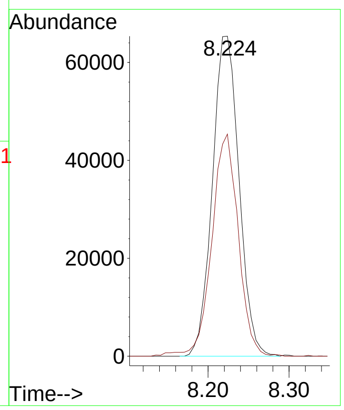
Instrument : MSVOA_N
ClientSampleId : VSTDICC001

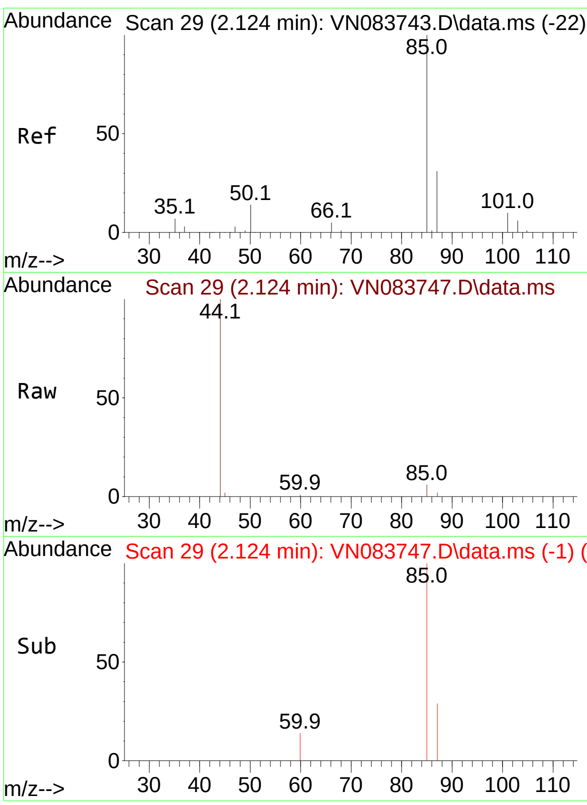
Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024




```
#1
Pentafluorobenzene
Concen:   50.000 ug/l
RT:   8.224 min  Scan# 1(
Delta R.T.  -0.000 min
Lab File:   VN083747.D
Acq: 10 Sep 2024  11:32

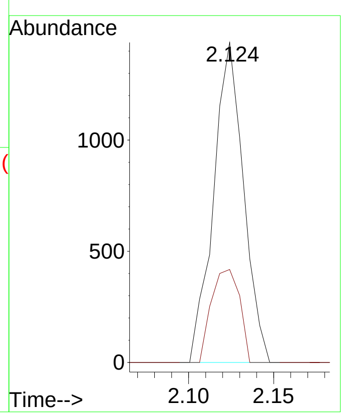
Tgt Ion:168 Resp:  149471
Ion  Ratio  Lower  Upper
168  100
 99   69.0   54.2   81.2
```






```
#2
Dichlorodifluoromethane
Concen:    1.018 ug/l
RT:   2.124 min  Scan# 29
Delta R.T.  0.000 min
Lab File:   VN083747.D
Acq: 10 Sep 2024  11:32

Tgt Ion: 85 Resp:    1767
Ion  Ratio  Lower  Upper
 85  100
 87   29.0   15.7   47.0
```

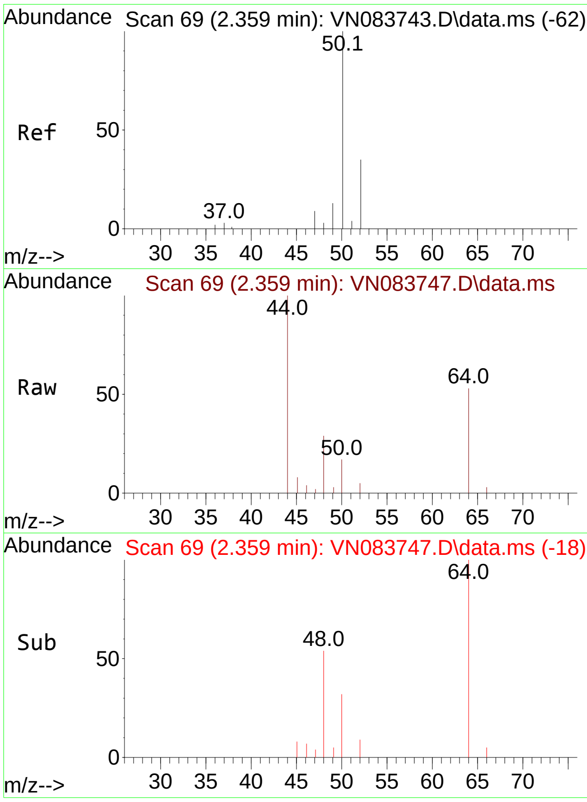


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

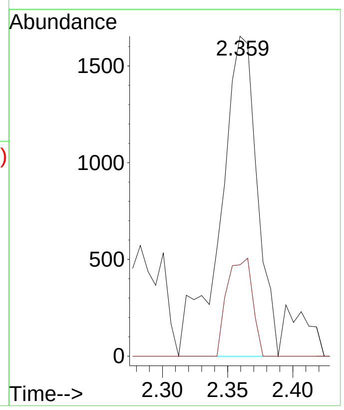
Manual Integrations APPROVED

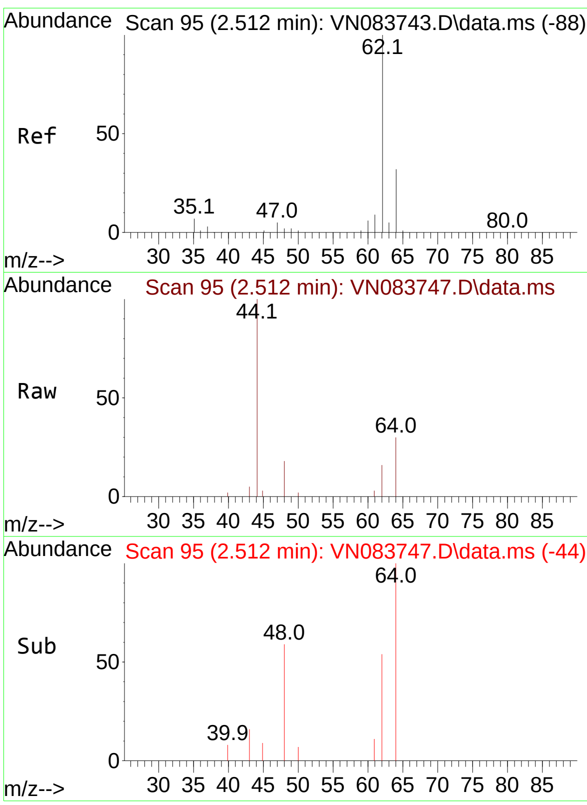
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024




```
#3
Chloromethane
Concen:    1.531 ug/l m
RT:   2.359 min  Scan# 6
Delta R.T.  0.000 min
Lab File:   VN083747.D
Acq: 10 Sep 2024  11:32

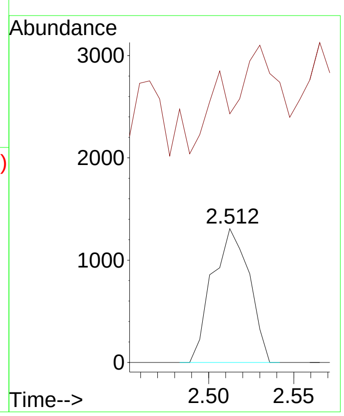
Tgt Ion: 50 Resp:    323
Ion  Ratio  Lower  Upper
 50  100
 52   28.5   27.2   40.8
```



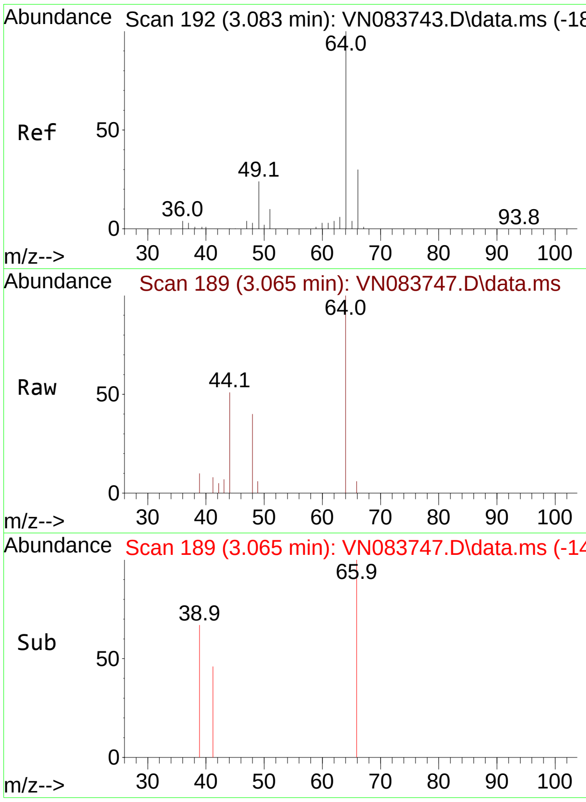



```
#4
Vinyl Chloride
Concen:    1.042 ug/l
RT:   2.512 min  Scan# 95
Delta R.T.  0.000 min
Lab File:   VN083747.D
Acq: 10 Sep 2024  11:32

Tgt Ion: 62 Resp:    1982
Ion  Ratio  Lower  Upper
 62  100
 64    0.0   24.7   37.1#
```



ICAL Form



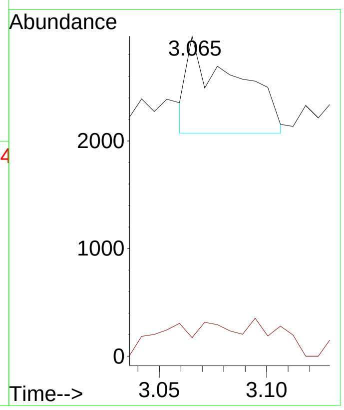
#6
Chloroethane
Concen: 1.064 ug/l m
RT: 3.065 min Scan# 18
Delta R.T. -0.018 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 64 Resp: 1404

Ion	Ratio	Lower	Upper
64	100		
66	5.8	23.9	35.9#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



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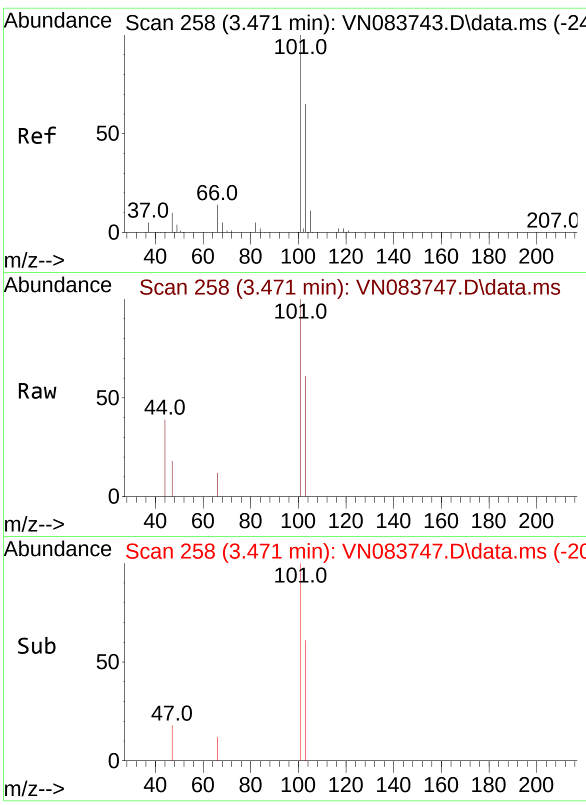
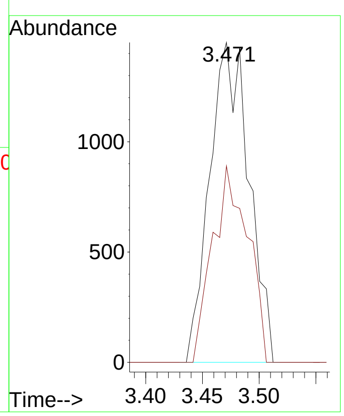


#7
Trichlorofluoromethane
Concen: 1.080 ug/l
RT: 3.471 min Scan# 258
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:101 Resp: 3488

Ion	Ratio	Lower	Upper
101	100		
103	61.4	51.4	77.0



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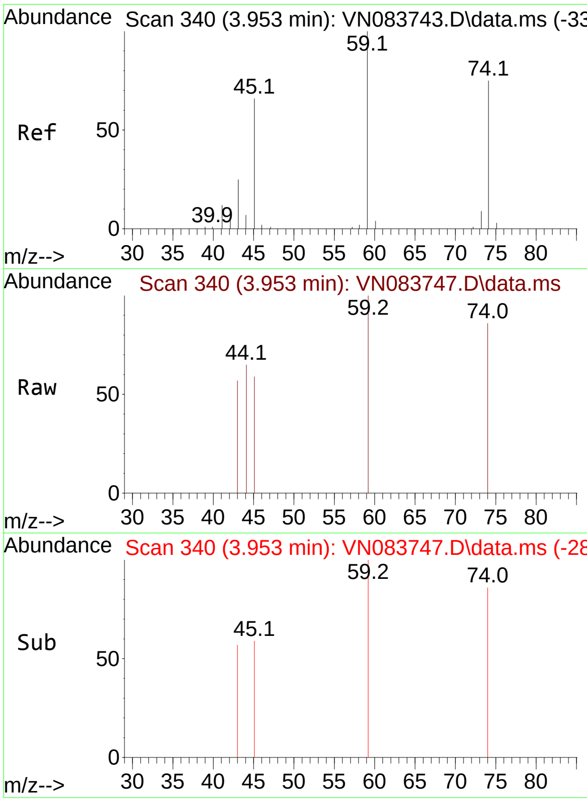
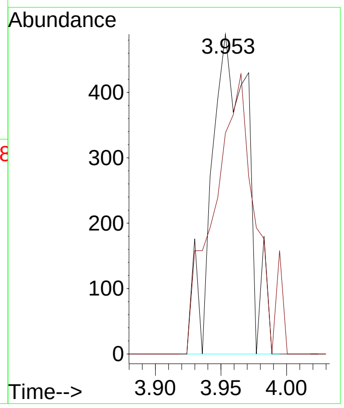
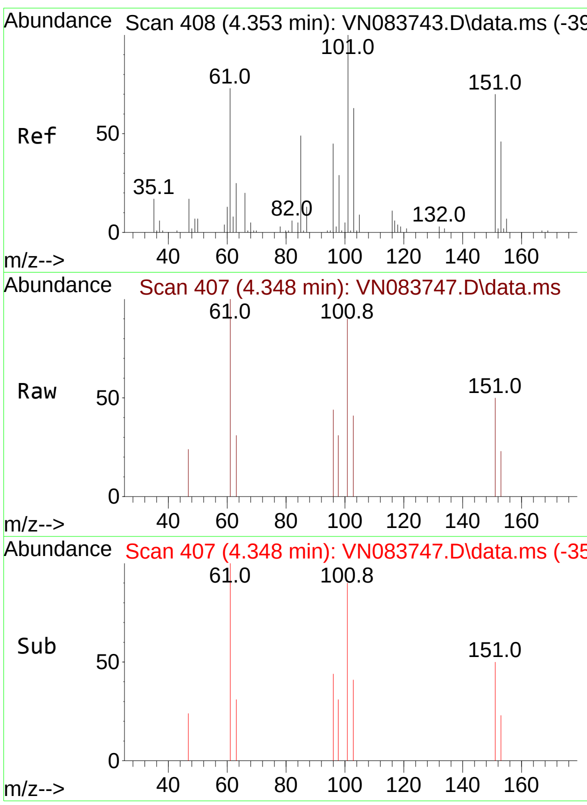


#8
Diethyl Ether
Concen: 0.886 ug/l
RT: 3.953 min Scan# 34
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 74 Resp: 95

Ion	Ratio	Lower	Upper
74	100		
45	98.6	46.7	140.1

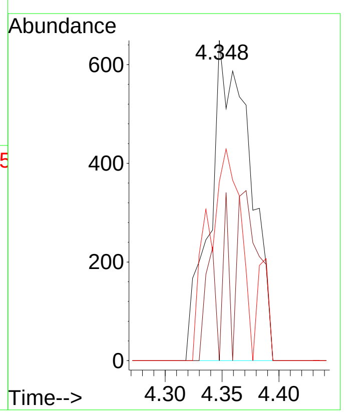


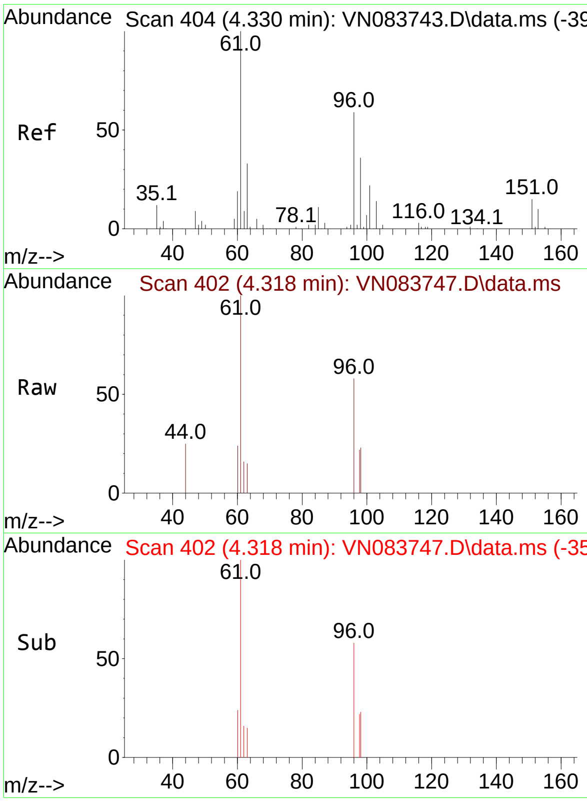


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.925 ug/l
RT: 4.348 min Scan# 407
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:101 Resp: 1583

Ion	Ratio	Lower	Upper
101	100		
85	9.0	36.2	54.4#
151	53.9	57.7	86.5#





#12
1,1-Dichloroethene
Concen: 0.945 ug/l
RT: 4.318 min Scan# 40
Delta R.T. -0.012 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Instrument :
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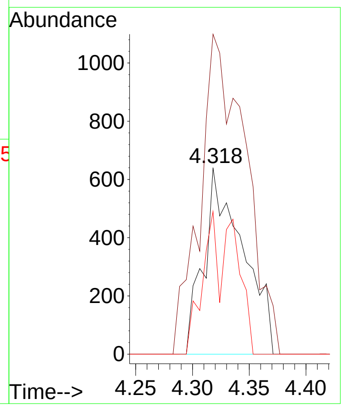
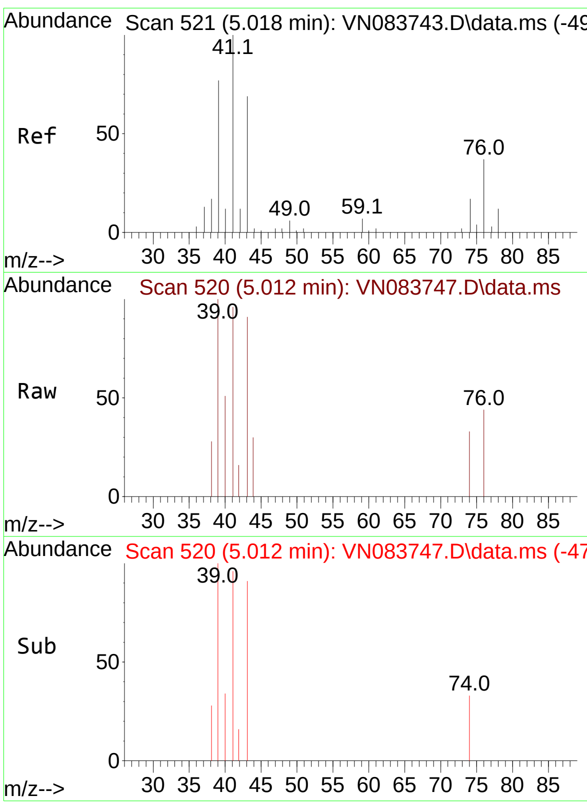
Tgt Ion: 96 Resp: 152

Ion	Ratio	Lower	Upper
96	100		
61	171.7	143.4	215.0
98	76.6	52.7	79.1

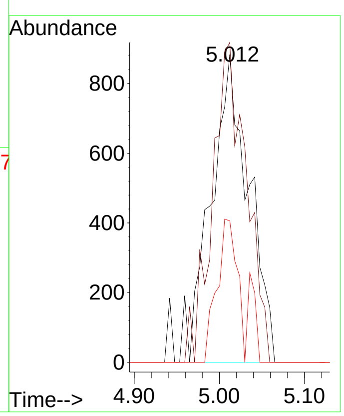




#14
Allyl chloride
Concen: 0.957 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 41 Resp: 2756

Ion	Ratio	Lower	Upper
41	100		
39	92.7	59.3	88.9#
76	24.6	27.7	41.5#



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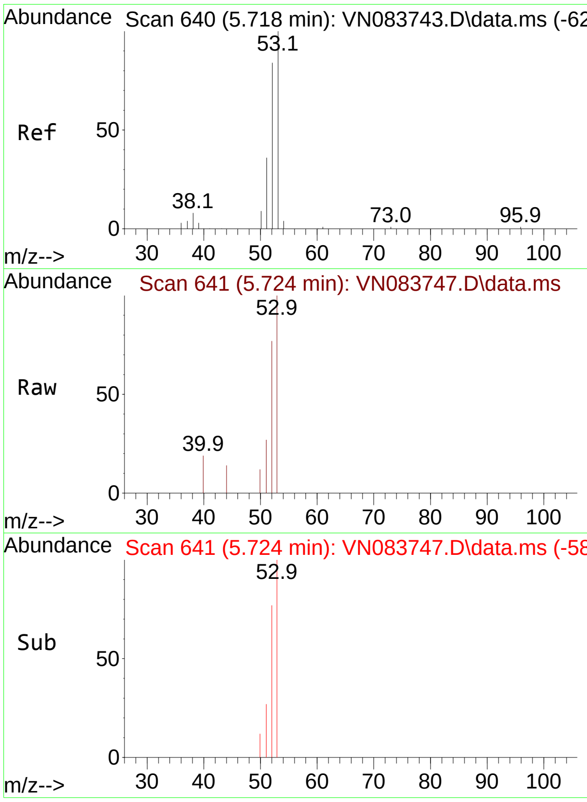
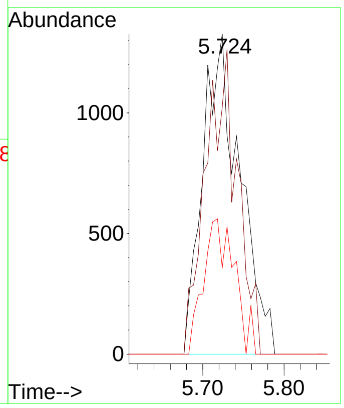
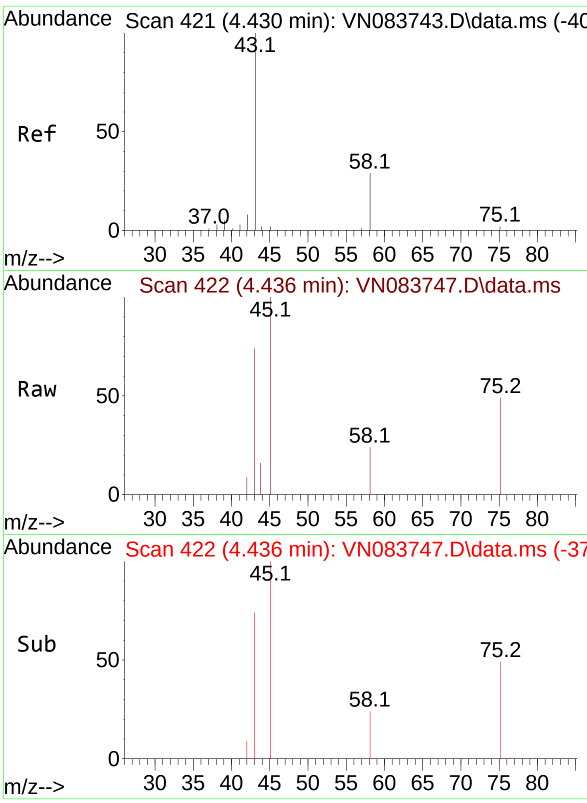


#15
Acrylonitrile
Concen: 5.145 ug/l
RT: 5.724 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 53 Resp: 422

Ion	Ratio	Lower	Upper
53	100		
52	81.6	66.1	99.1
51	35.4	29.6	44.4

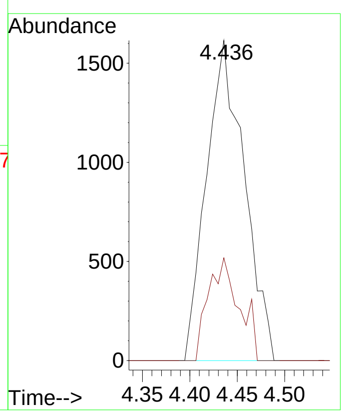




#16
Acetone
Concen: 4.952 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 43 Resp: 4474

Ion	Ratio	Lower	Upper
43	100		
58	32.1	23.7	35.5



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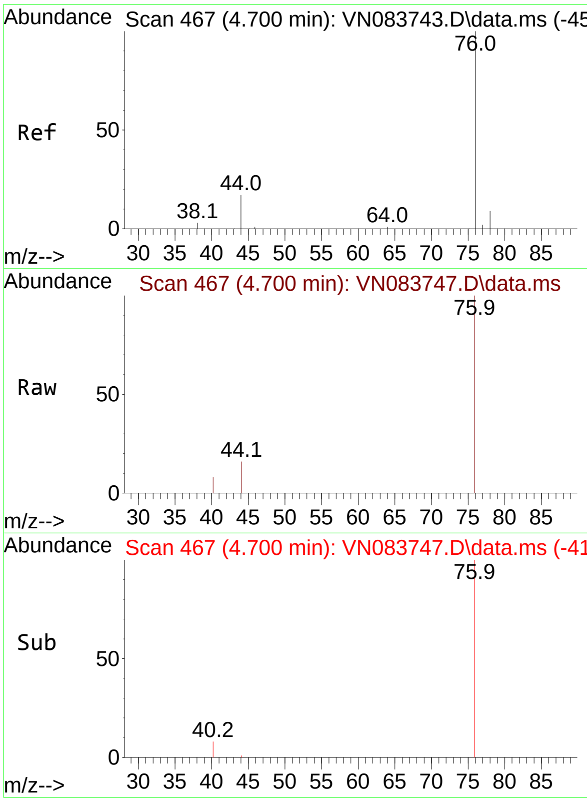

#17
Carbon Disulfide
Concen: 1.126 ug/l
RT: 4.700 min   Scan# 4
Delta R.T.   0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024   11:32

Tgt Ion: 76 Resp: 509

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.1	10.7

Instrument :
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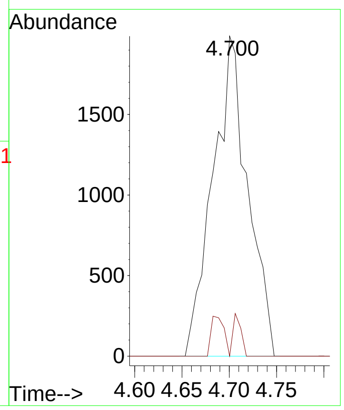
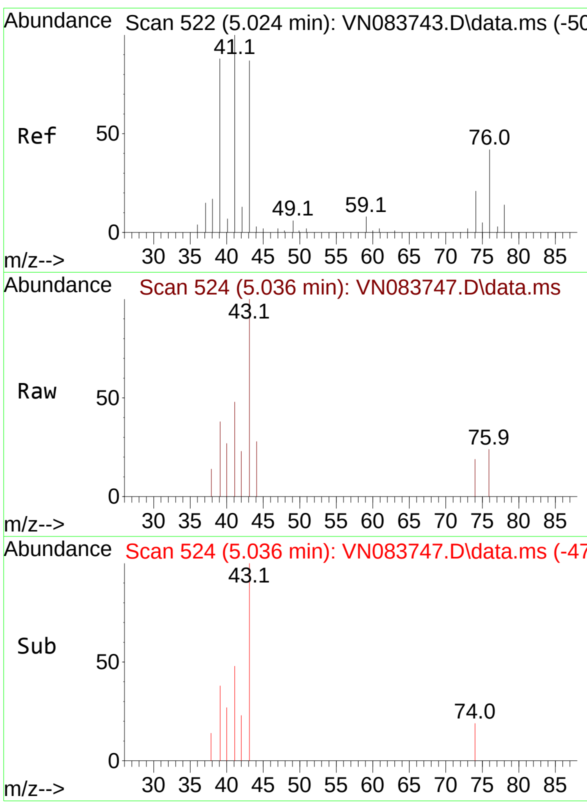
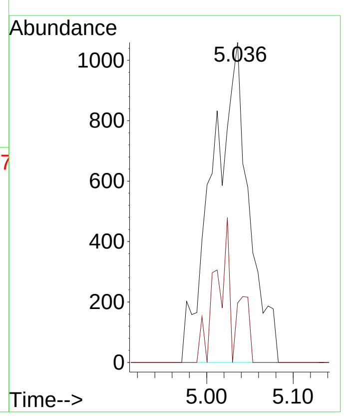




#18
Methyl Acetate
Concen: 1.407 ug/l m
RT: 5.036 min   Scan# 524
Delta R.T.   0.012 min
Lab File: VN083747.D
Acq: 10 Sep 2024   11:32

Tgt Ion: 43 Resp: 3089

Ion	Ratio	Lower	Upper
43	100		
74	16.2	19.0	28.4#



ICAL Form

Instrument :
MSVOA_N
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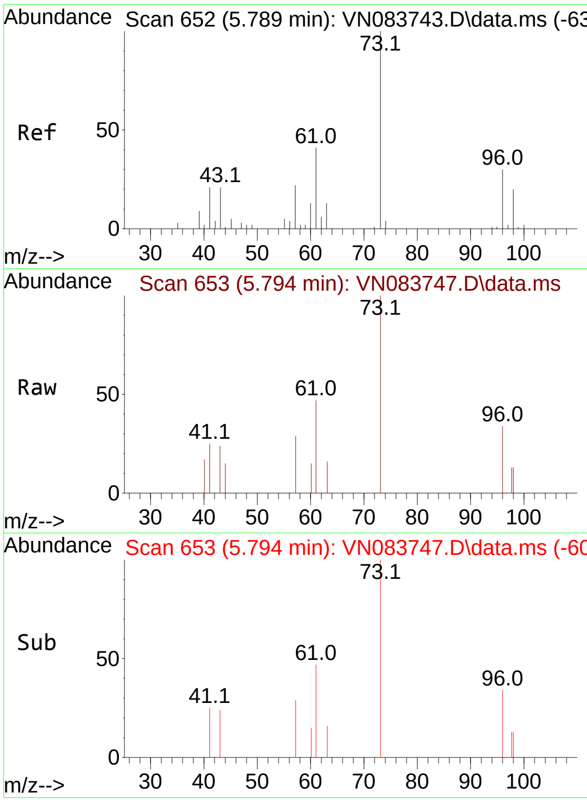
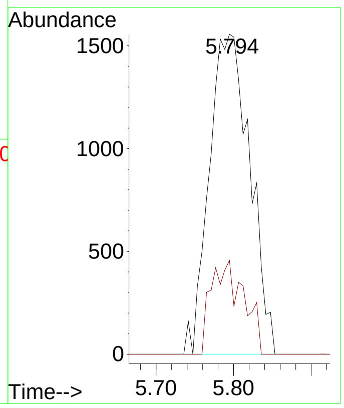
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

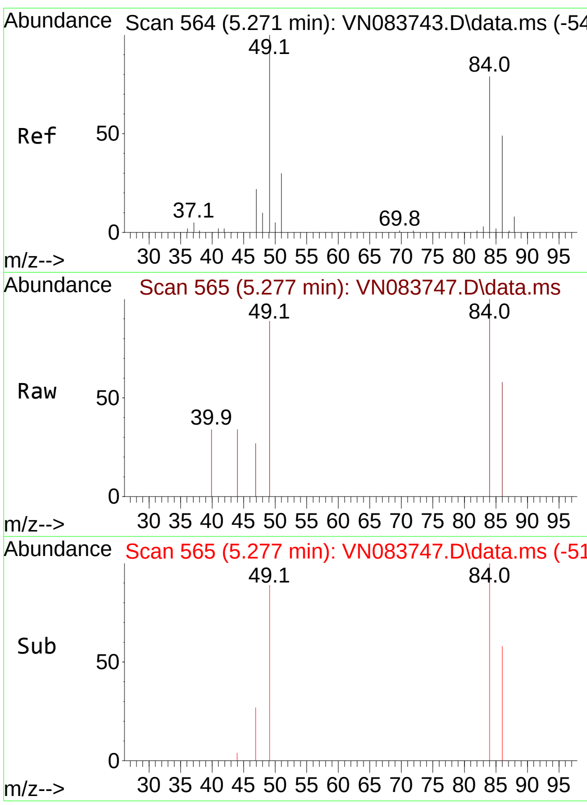


#19
Methyl tert-butyl Ether
Concen: 0.970 ug/l
RT: 5.794 min Scan# 6!
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 73 Resp: 567

Ion	Ratio	Lower	Upper
73	100		
57	29.3	17.0	25.6#

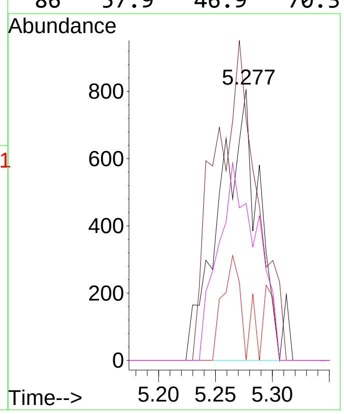




#20
Methylene Chloride
Concen: 1.040 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 84 Resp: 1922

Ion	Ratio	Lower	Upper
84	100		
49	89.0	93.4	140.0#
51	0.0	29.2	43.8#
86	57.9	46.9	70.3



Instrument :
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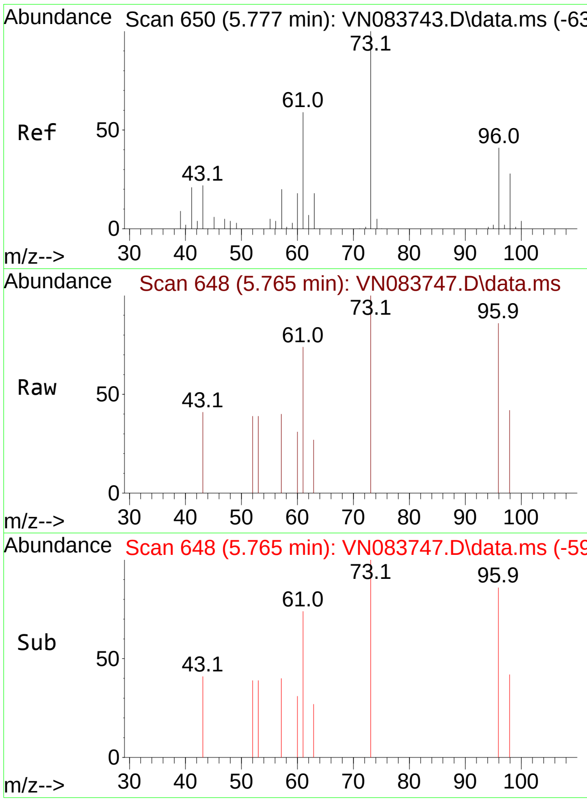
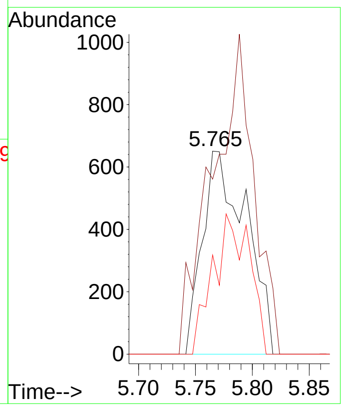
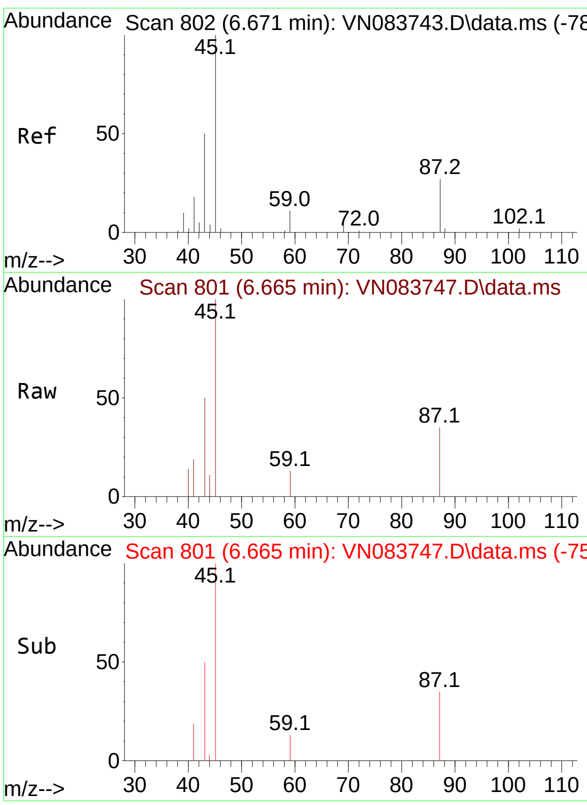



```
#21
trans-1,2-Dichloroethene
Concen:     1.007 ug/l
RT:    5.765 min   Scan# 64
Delta R.T.   -0.012 min
Lab File:    VN083747.D
Acq: 10 Sep 2024   11:32

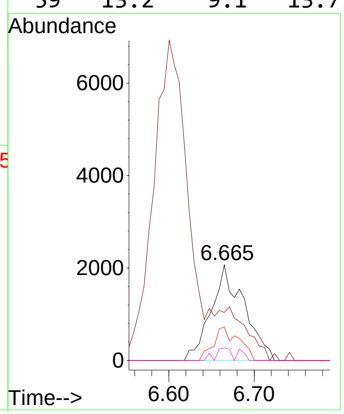
Tgt Ion: 96 Resp:    174
Ion   Ratio   Lower   Upper
 96   100
 61    86.2   106.0   159.0#
 98    48.8    52.2    78.2#
```

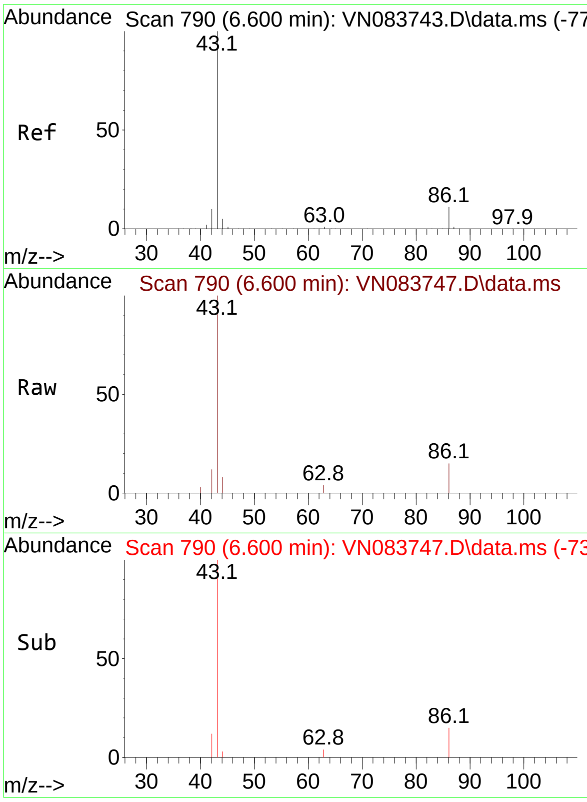





```
#22
Diisopropyl ether
Concen:     0.937 ug/l
RT:    6.665 min   Scan# 801
Delta R.T.   -0.006 min
Lab File:    VN083747.D
Acq: 10 Sep 2024   11:32

Tgt Ion: 45 Resp:    5555
Ion   Ratio   Lower   Upper
 45   100
 43    50.3    43.4    65.0
 87    35.1    22.6    33.8#
 59    13.2     9.1    13.7
```





#23
Vinyl Acetate
Concen: 4.511 ug/l
RT: 6.600 min   Scan# 7
Delta R.T.   0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024   11:32

Tgt Ion: 43 Resp: 1958

Ion	Ratio	Lower	Upper
43	100		
86	14.5	8.7	13.1#

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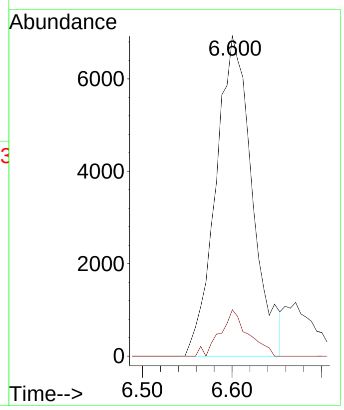
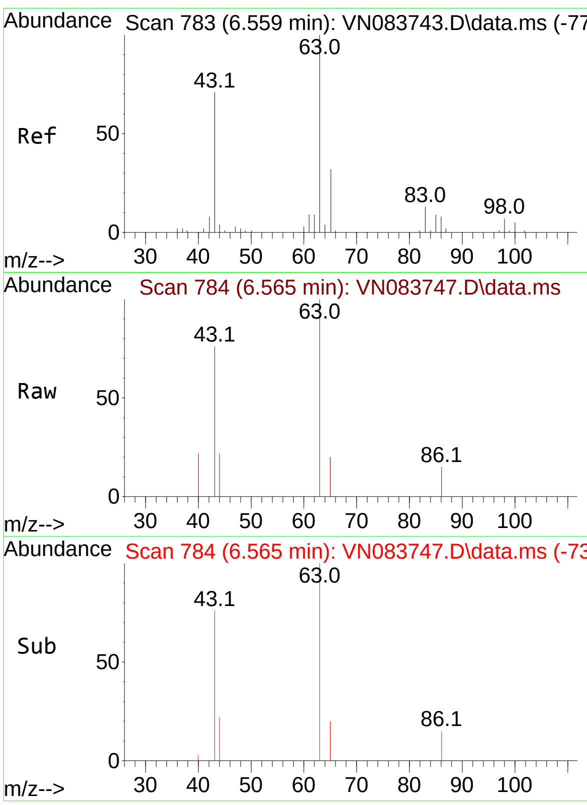
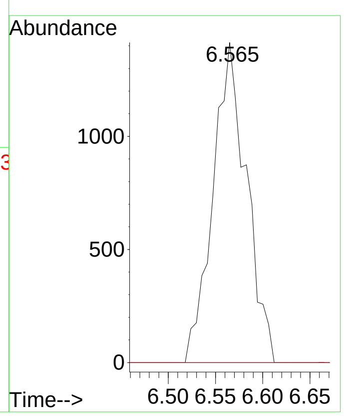




#24
1,1-Dichloroethane
Concen: 1.022 ug/l
RT: 6.565 min   Scan# 784
Delta R.T.   0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024   11:32

Tgt Ion: 63 Resp: 3493

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.5	10.4#
100	0.0	2.5	7.5#



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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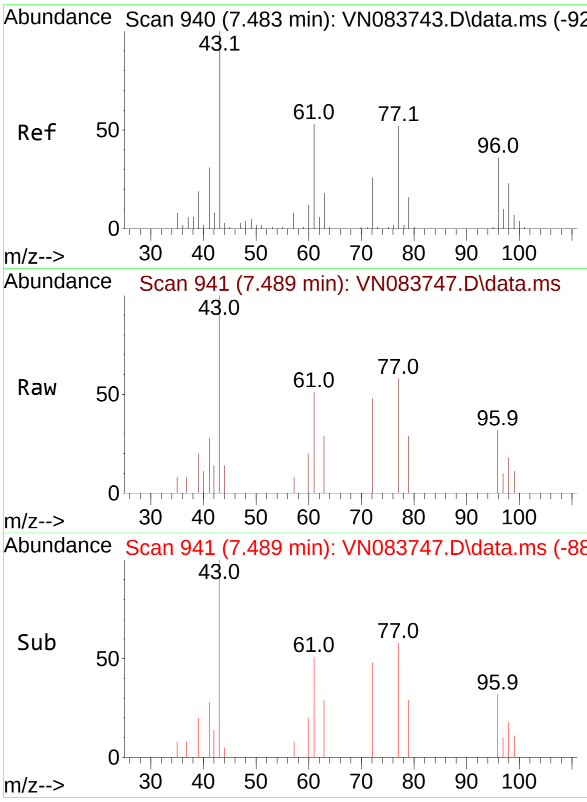
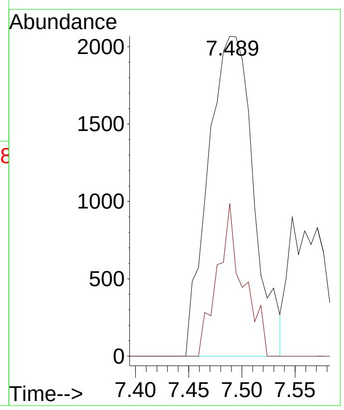
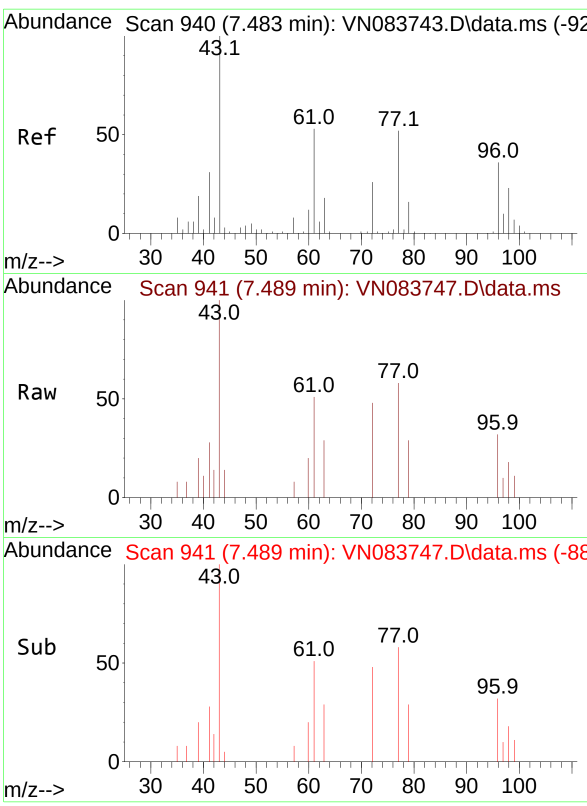


#25
2-Butanone
Concen: 5.160 ug/l
RT: 7.489 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 43 Resp: 612

Ion	Ratio	Lower	Upper
43	100		
72	47.7	20.8	31.2

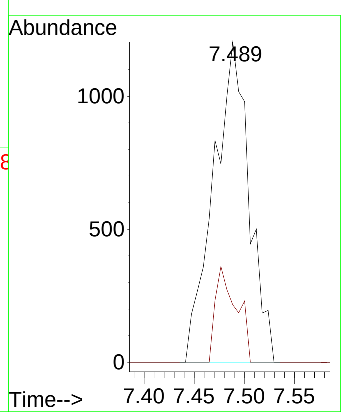




#26
2,2-Dichloropropane
Concen: 0.948 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 77 Resp: 2982

Ion	Ratio	Lower	Upper
77	100		
97	17.7	10.2	30.4



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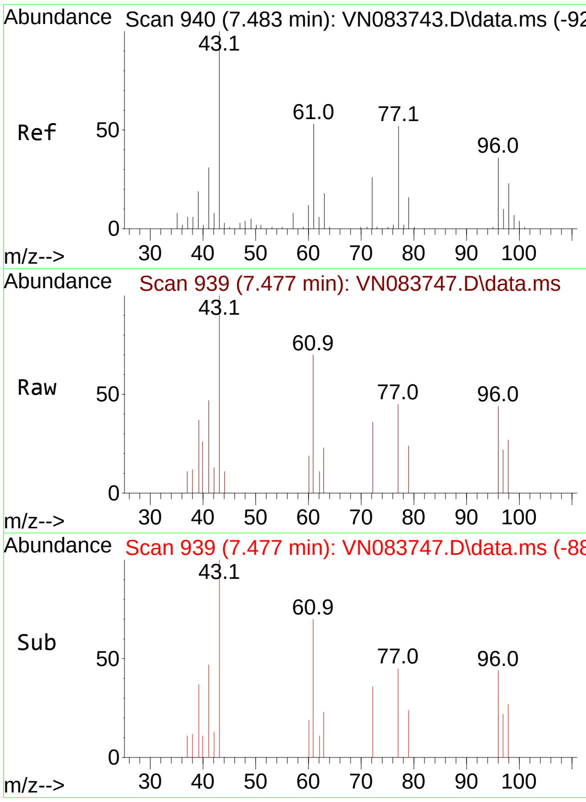
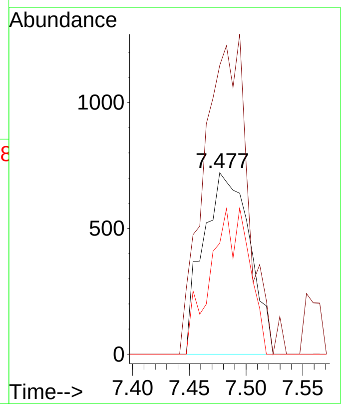
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

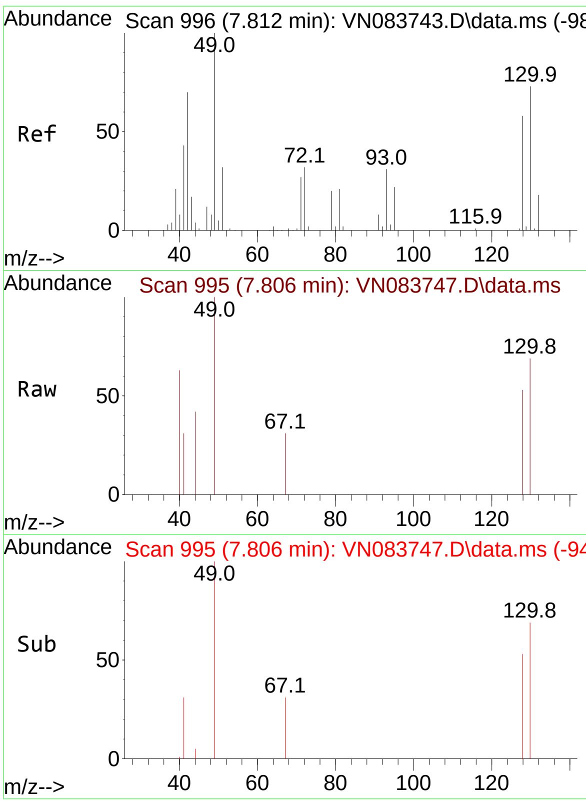


#27
cis-1,2-Dichloroethene
Concen: 0.998 ug/l
RT: 7.477 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 96 Resp: 205

Ion	Ratio	Lower	Upper
96	100		
61	165.5	0.0	306.2
98	67.2	0.0	128.6

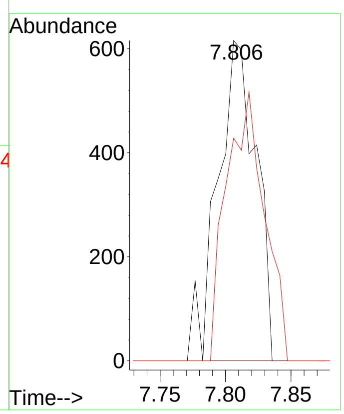




#28
Bromochloromethane
Concen: 0.874 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 49 Resp: 1257

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	83.5	60.2	90.2



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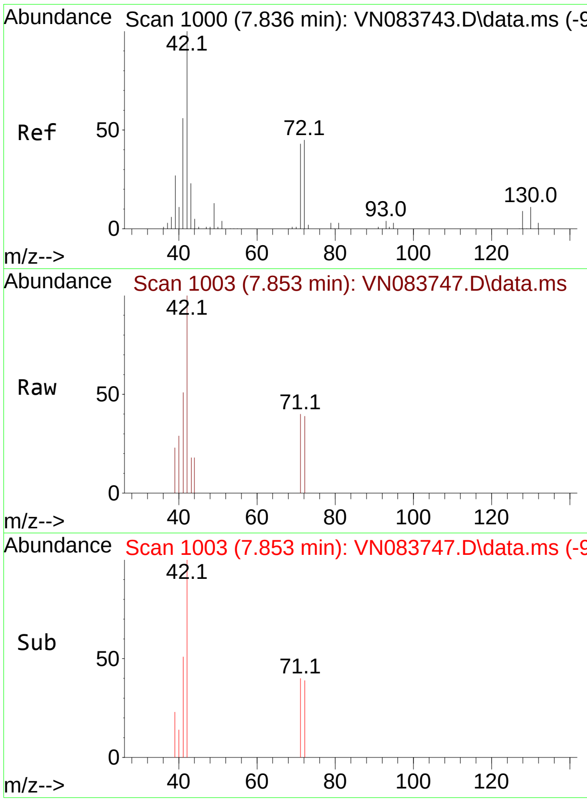
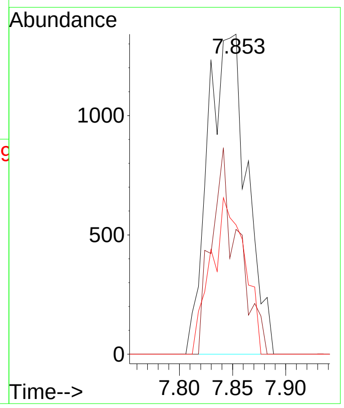
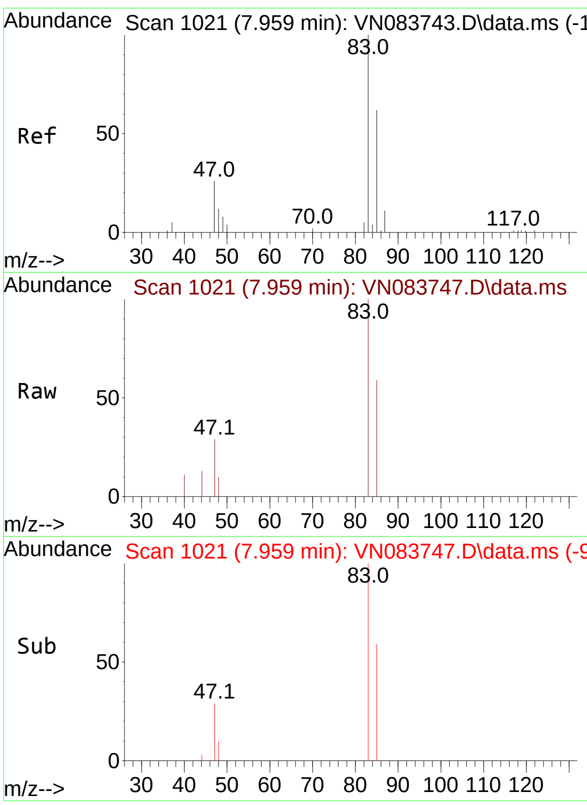


#29
Tetrahydrofuran
Concen: 4.893 ug/l
RT: 7.853 min Scan# 10
Delta R.T. 0.018 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 42 Resp: 343

Ion	Ratio	Lower	Upper
42	100		
72	44.4	35.9	53.9
71	41.6	33.9	50.9

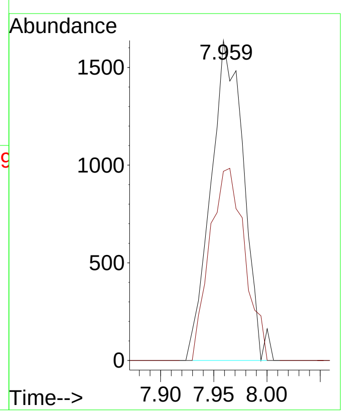


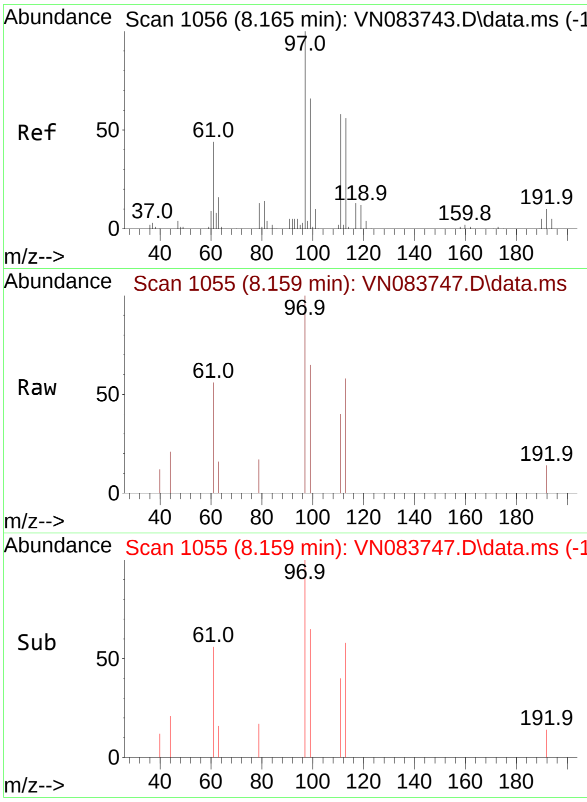


#30
Chloroform
Concen: 0.973 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 83 Resp: 3528

Ion	Ratio	Lower	Upper
83	100		
85	59.1	52.8	79.2





#32
1,1,1-Trichloroethane
Concen: 0.969 ug/l
RT: 8.159 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 97 Resp: 323

Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.3	78.5#
61	47.0	38.2	57.2

Instrument :
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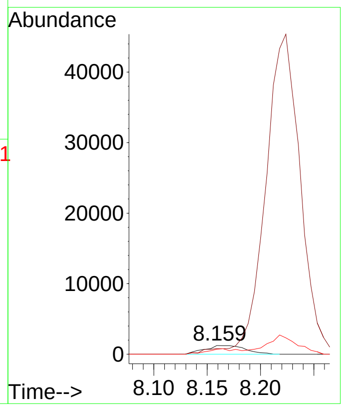
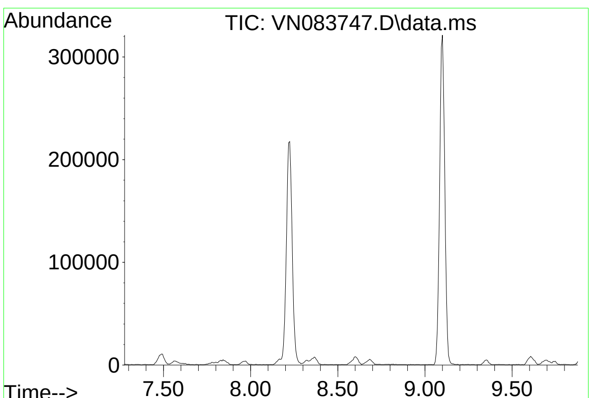
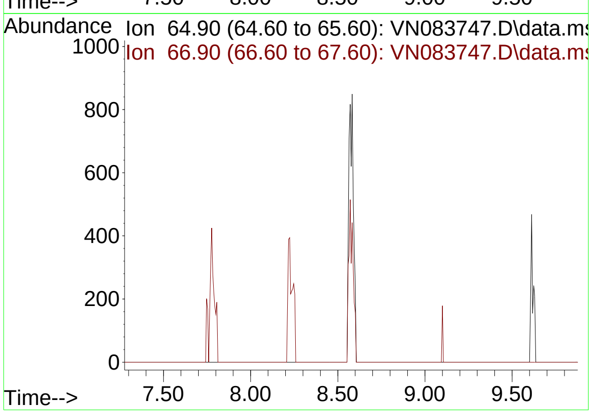
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024





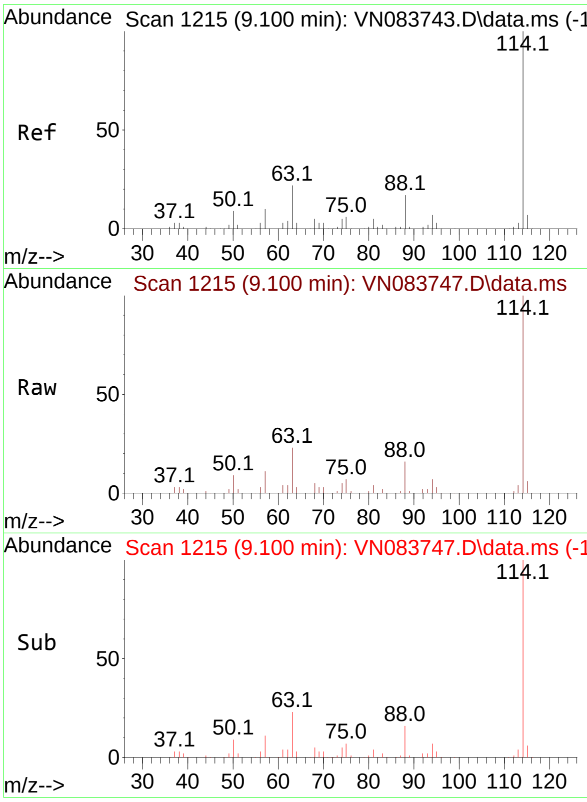


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.58 min

Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	50.4




```
#34
1,4-Difluorobenzene
Concen:   50.000 ug/l
RT:   9.100 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083747.D
Acq: 10 Sep 2024  11:32

Tgt Ion:114 Resp:  268939
Ion  Ratio  Lower  Upper
114  100
 63   23.2    0.0   43.4
 88   16.2    0.0   32.6
```

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MSVOA_N
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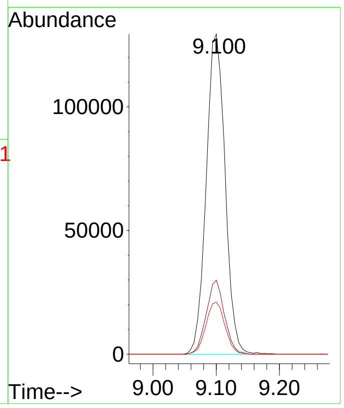
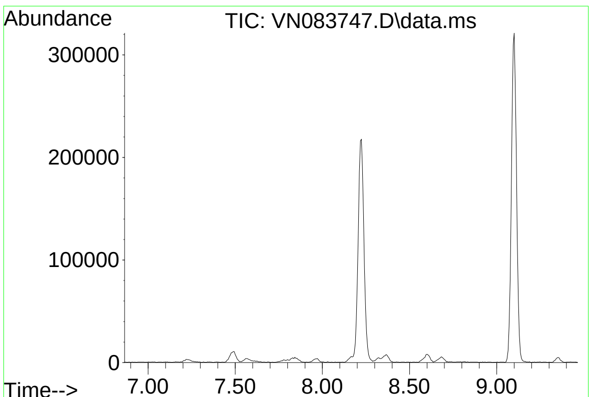
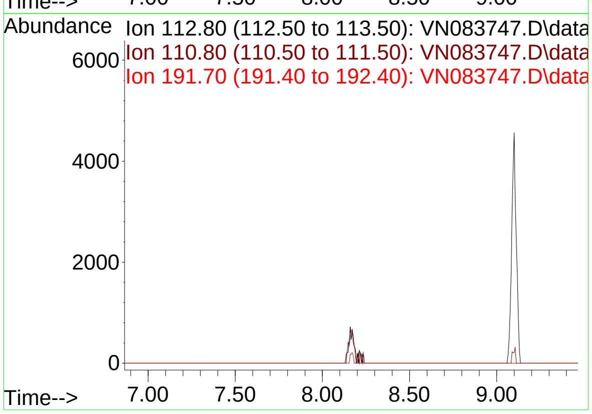


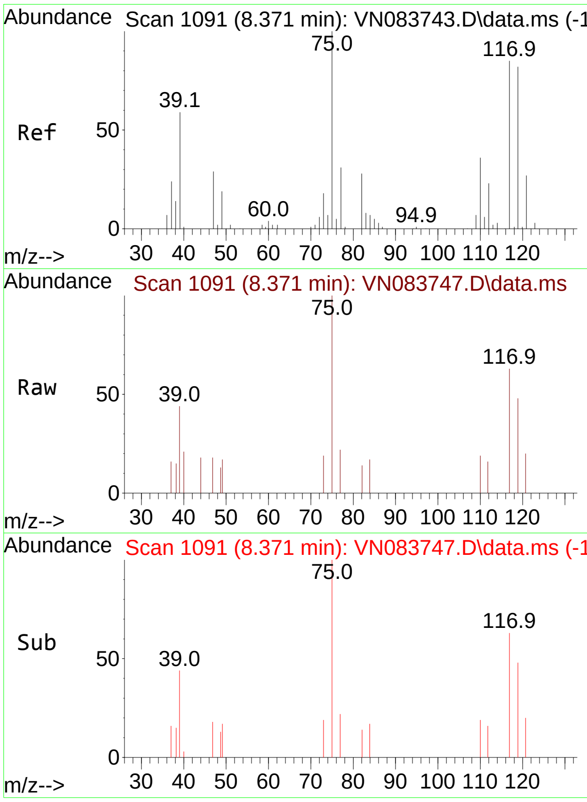





```
#35
Dibromofluoromethane
Concen:    0.000 ug/l
Expected RT: 8.16 min

Lab File:   VN083747.D
Acq: 10 Sep 2024  11:32

Tgt Ion: 113
Sig     Exp Ratio
113      100
111      103.3
192       17.9
```



#36
1,1-Dichloropropene
Concen: 1.044 ug/l
RT: 8.371 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 75 Resp: 270

Ion	Ratio	Lower	Upper
75	100		
110	20.7	16.7	50.1
77	27.2	25.2	37.8

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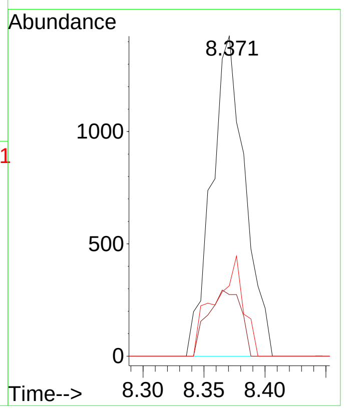
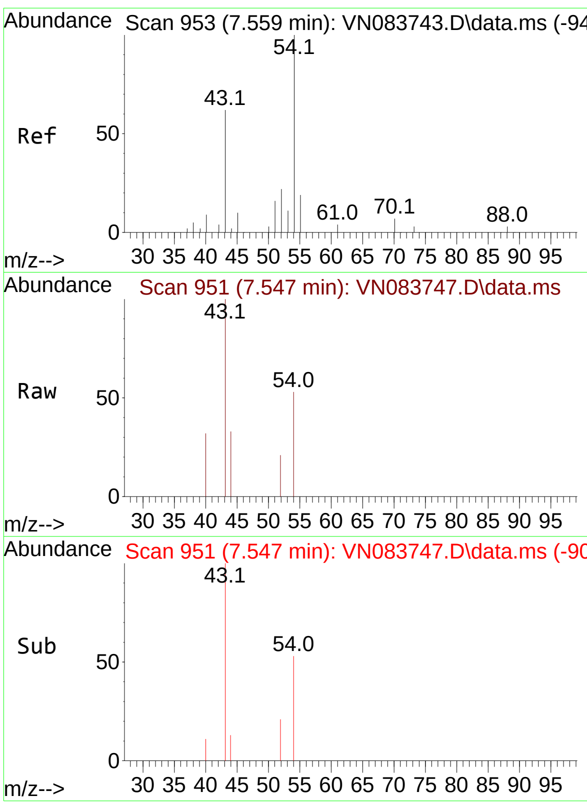
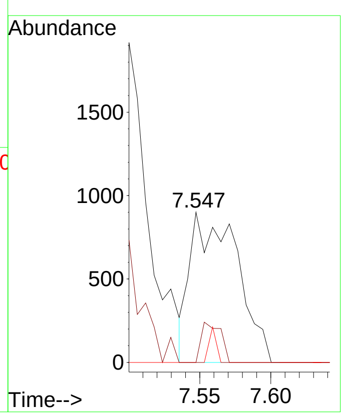




#37
Ethyl Acetate
Concen: 0.880 ug/l
RT: 7.547 min Scan# 951
Delta R.T. -0.012 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 43 Resp: 2070

Ion	Ratio	Lower	Upper
43	100		
61	11.1	11.1	16.7#
70	3.6	8.8	13.2#



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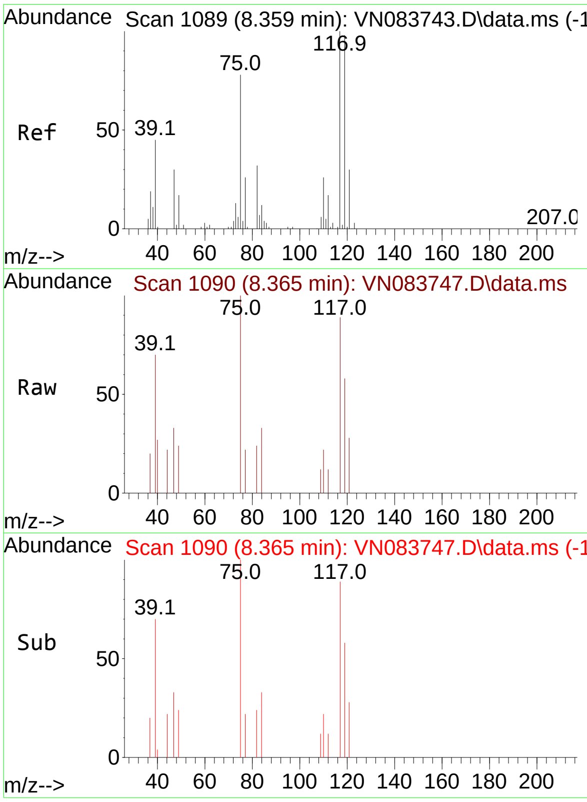

#38
Carbon Tetrachloride
Concen: 0.942 ug/l
RT: 8.365 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:117 Resp: 2768

Ion	Ratio	Lower	Upper
117	100		
119	64.8	76.1	114.1#
121	31.2	24.1	36.1

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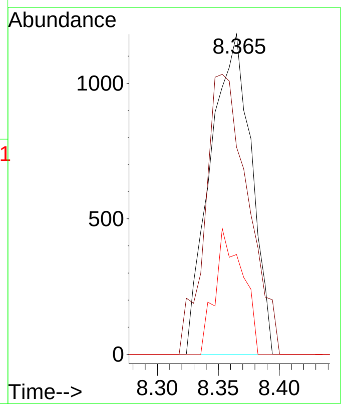
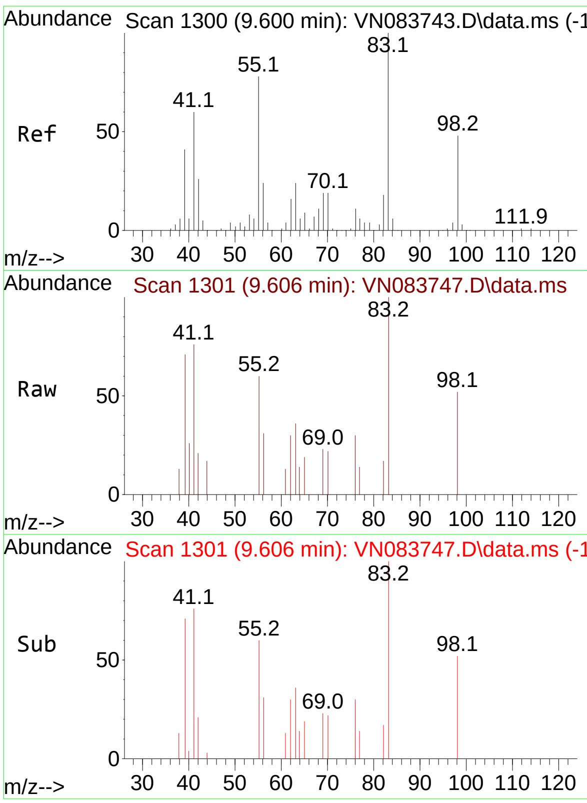
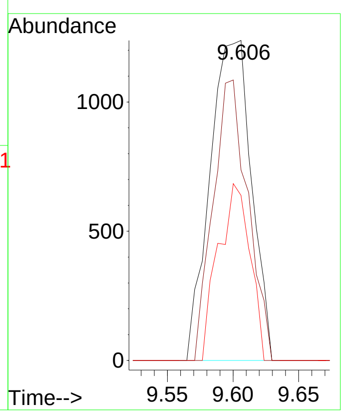




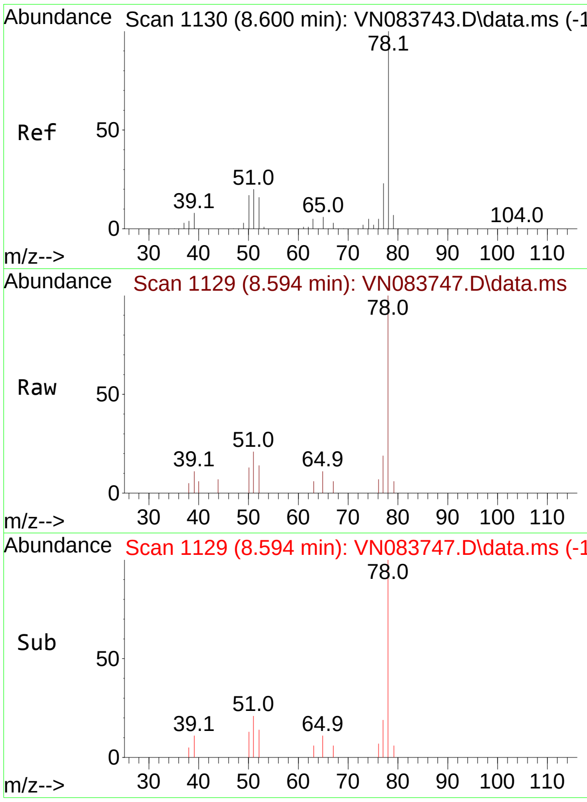
#39
Methylcyclohexane
Concen: 0.925 ug/l
RT: 9.606 min Scan# 1301
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 83 Resp: 2729

Ion	Ratio	Lower	Upper
83	100		
55	59.5	62.2	93.4#
98	51.6	37.6	56.4



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#40
Benzene
Concen: 1.000 ug/l
RT: 8.594 min   Scan# 1
Delta R.T.   -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024   11:32

Tgt Ion: 78 Resp: 779

Ion	Ratio	Lower	Upper
78	100		
77	19.0	19.0	28.6#

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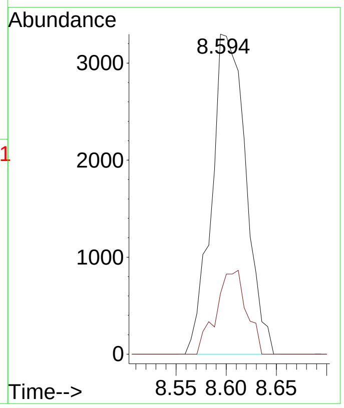

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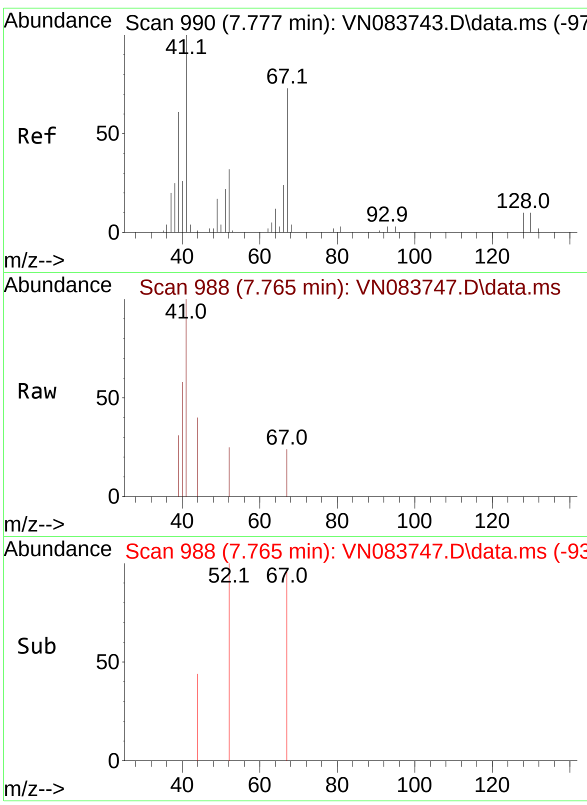
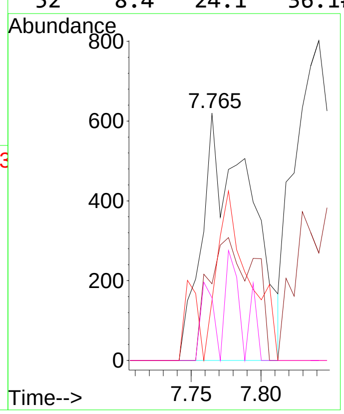


#41
Methacrylonitrile
Concen: 1.075 ug/l m
RT: 7.765 min   Scan# 988
Delta R.T.   -0.012 min
Lab File: VN083747.D
Acq: 10 Sep 2024   11:32

Tgt Ion: 41 Resp: 1496

Ion	Ratio	Lower	Upper
41	100		
39	0.0	45.4	68.2#
67	8.7	55.9	83.9#
52	8.4	24.1	36.1#



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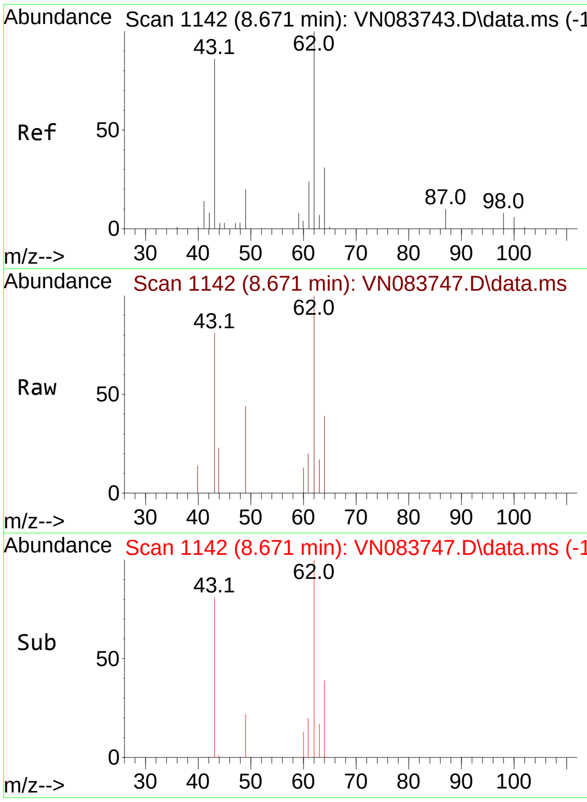
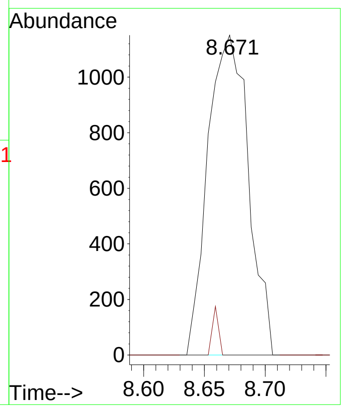
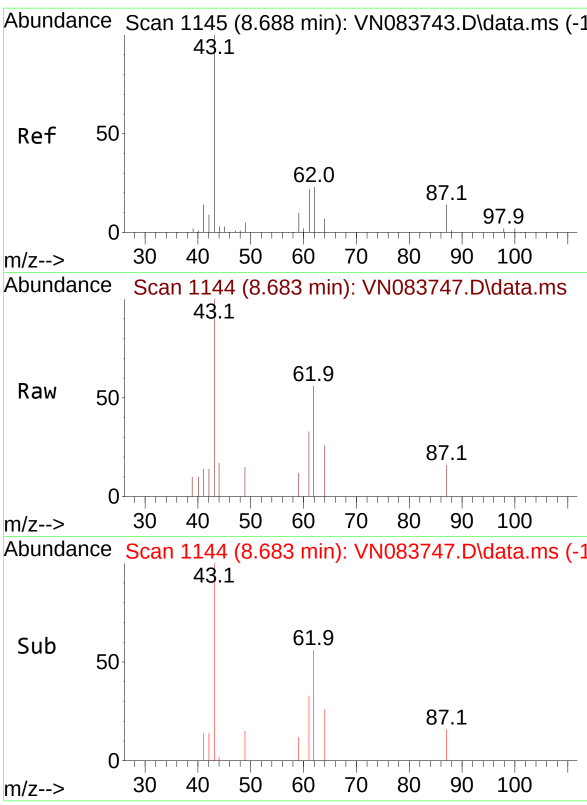


#42
1,2-Dichloroethane
Concen: 0.916 ug/l
RT: 8.671 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 62 Resp: 267

Ion	Ratio	Lower	Upper
62	100		
98	2.3	0.0	16.6

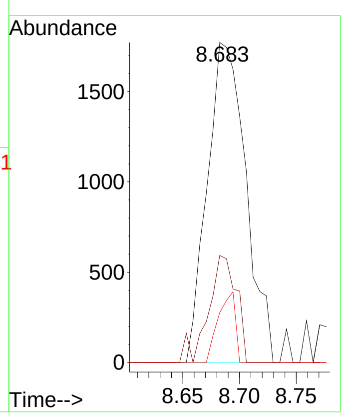


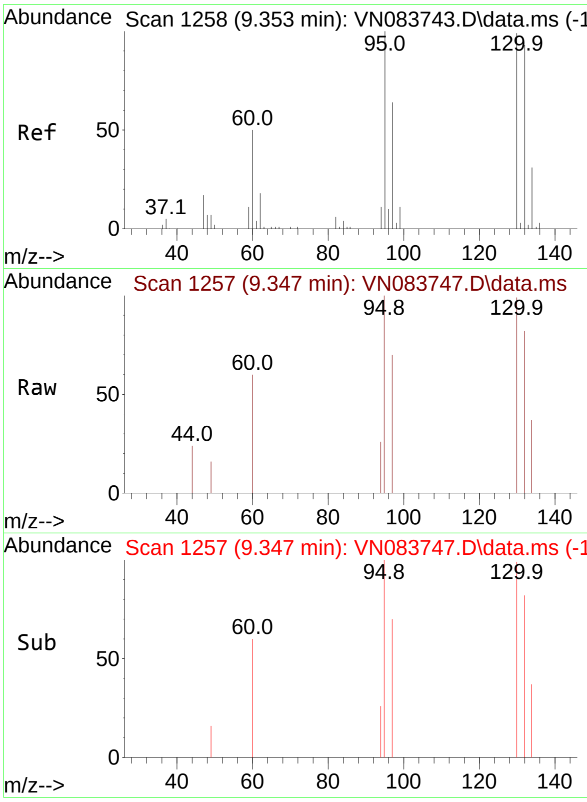


#43
Isopropyl Acetate
Concen: 0.986 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 43 Resp: 4202

Ion	Ratio	Lower	Upper
43	100		
61	24.2	19.4	29.0
87	9.8	9.8	14.6#





#44
Trichloroethene
Concen: 1.054 ug/l
RT: 9.347 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:130 Resp: 1904

Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	200.4

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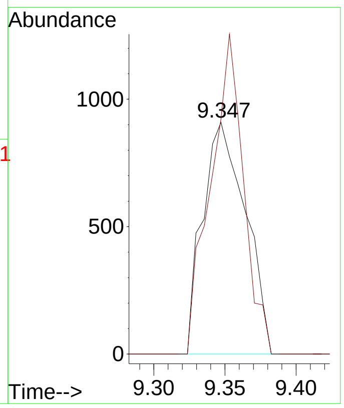
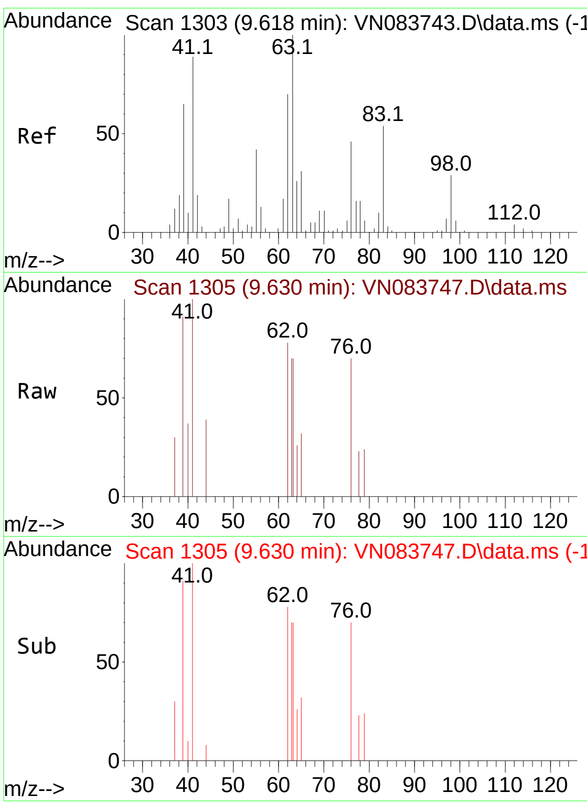
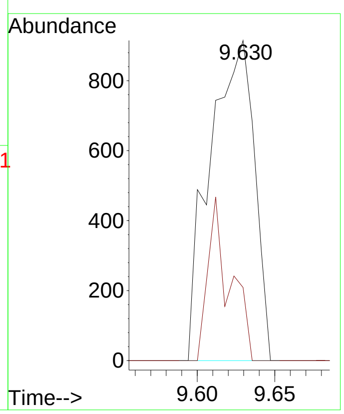


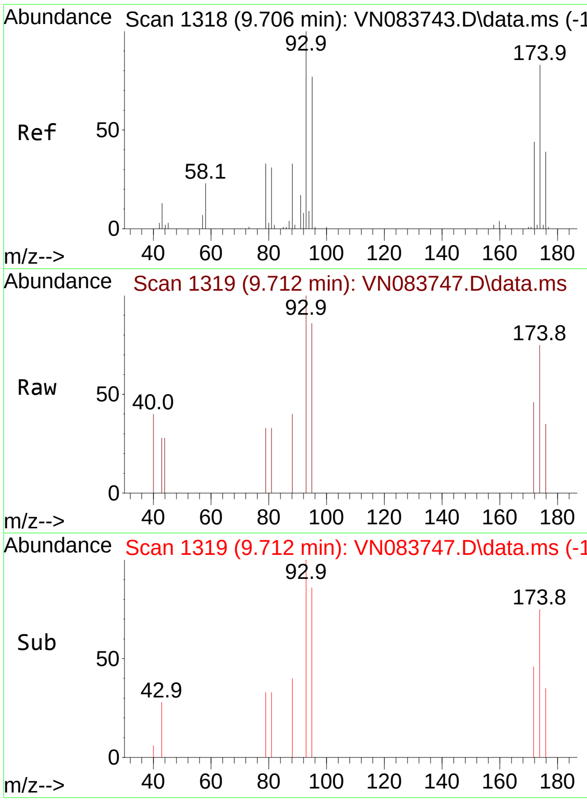


#45
1,2-Dichloropropane
Concen: 0.968 ug/l
RT: 9.630 min Scan# 1305
Delta R.T. 0.012 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 63 Resp: 1824

Ion	Ratio	Lower	Upper
63	100		
65	22.8	25.9	38.9#





#46
Dibromomethane
Concen: 0.866 ug/l
RT: 9.712 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 93 Resp: 114

Ion	Ratio	Lower	Upper
93	100		
95	89.8	65.3	97.9
174	89.0	71.0	106.4

Instrument :
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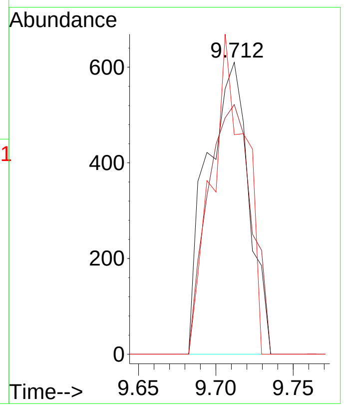
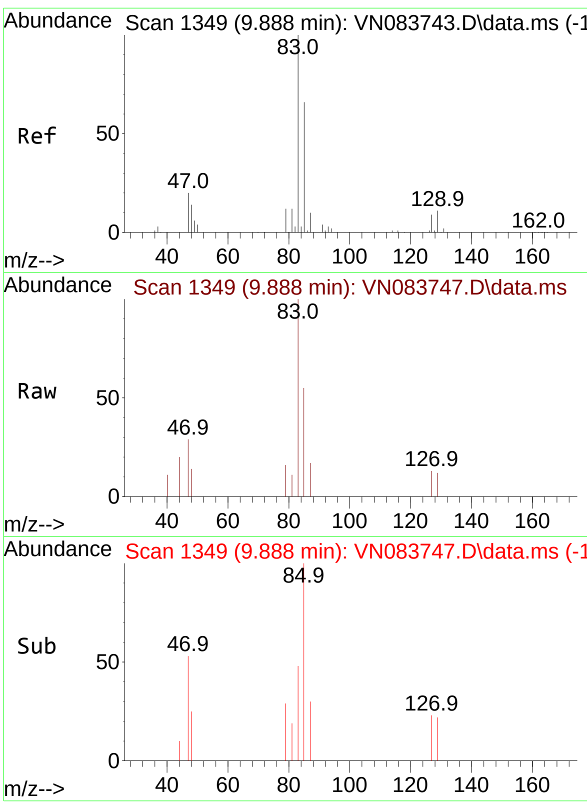
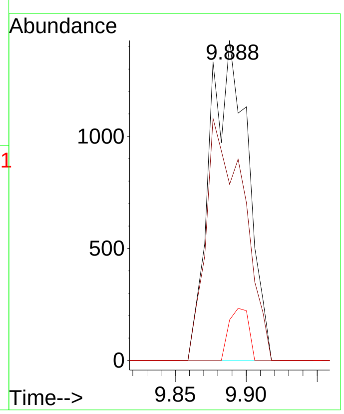




#47
Bromodichloromethane
Concen: 0.929 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 83 Resp: 2654

Ion	Ratio	Lower	Upper
83	100		
85	55.0	51.8	77.8
127	12.7	6.6	9.8#



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Instrument : MSVOA_N
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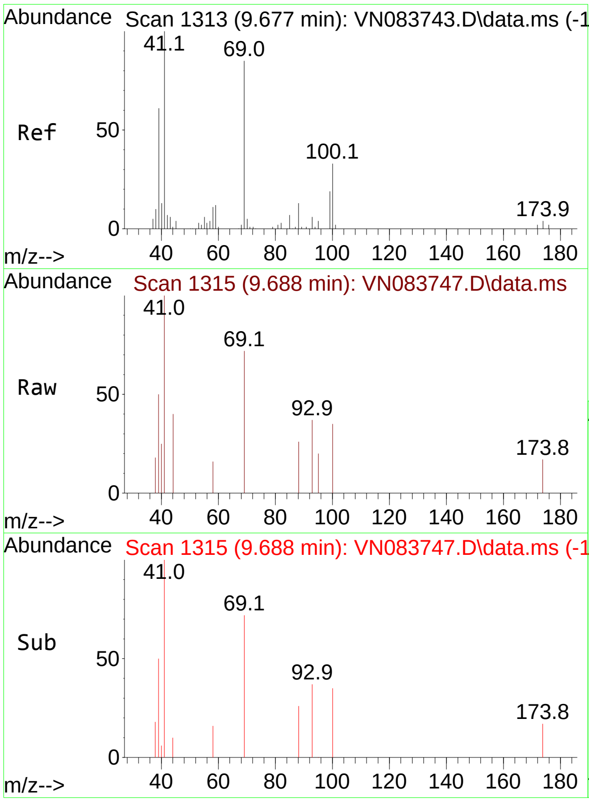
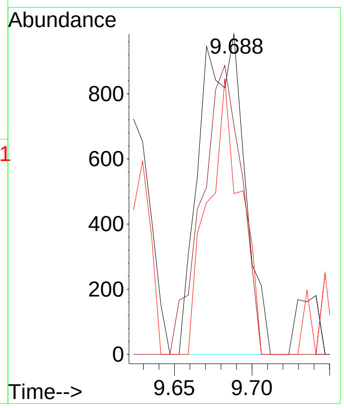
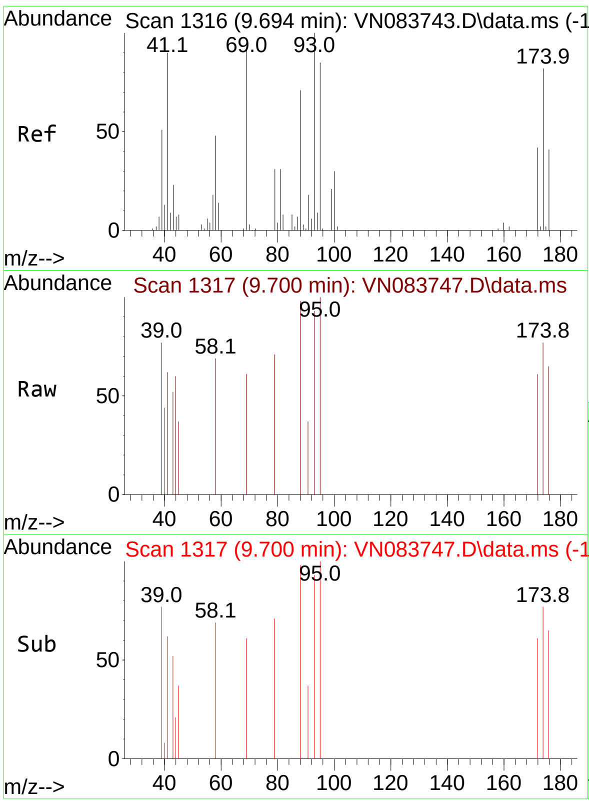



```
#48
Methyl methacrylate
Concen:    0.968 ug/l
RT:    9.688 min   Scan# 1
Delta R.T.   0.012 min
Lab File:    VN083747.D
Acq: 10 Sep 2024   11:32

Tgt Ion: 41 Resp:     195
Ion   Ratio   Lower   Upper
 41   100
 69    81.4    64.3    96.5
 39    63.4    48.9    73.3
```



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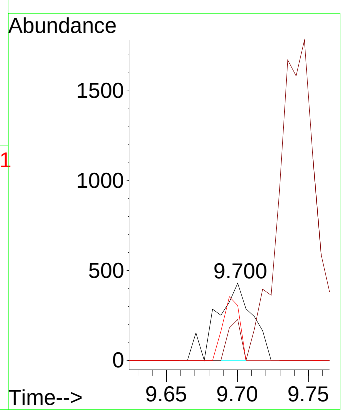
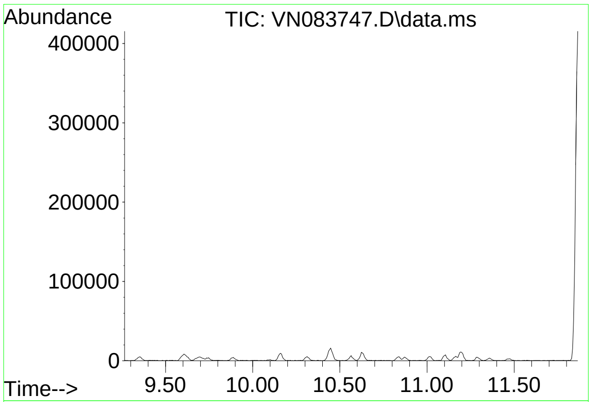
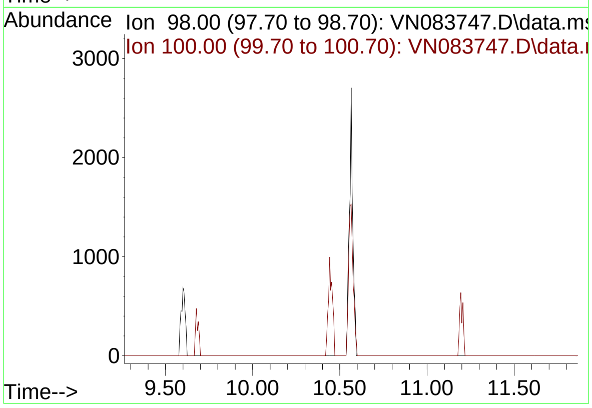
#49
1,4-Dioxane
Concen:   22.664 ug/l
RT:    9.700 min   Scan# 1317
Delta R.T.   0.006 min
Lab File:    VN083747.D
Acq: 10 Sep 2024   11:32

Tgt Ion: 88 Resp:      754
Ion   Ratio   Lower   Upper
 88   100
 43    19.1     0.0     0.0#
 58    38.5    57.1    85.7#
```







#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.56 min

Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	65.0

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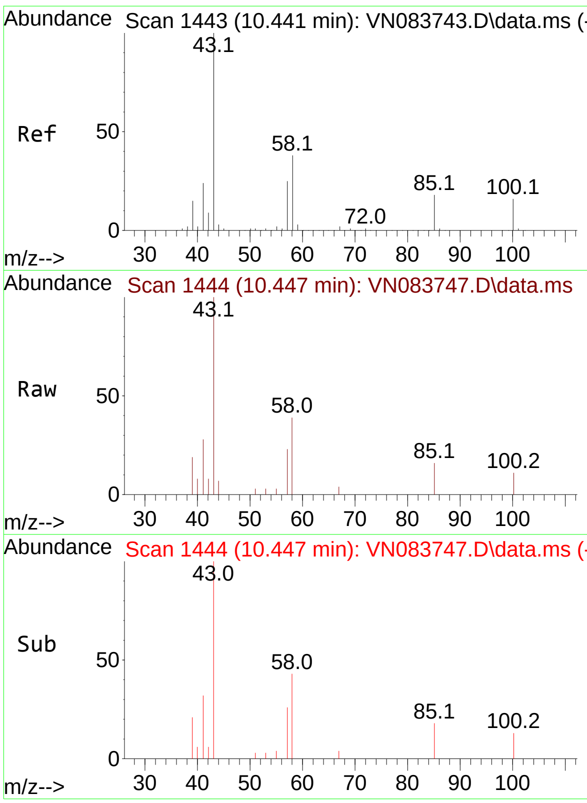
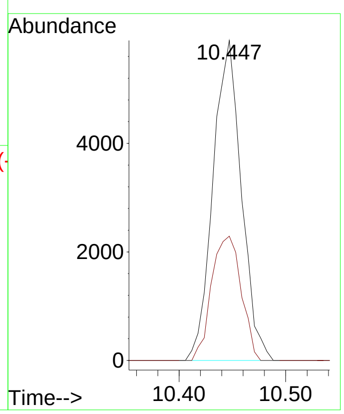


#51
4-Methyl-2-Pentanone
Concen: 4.693 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 43 Resp: 10889

Ion	Ratio	Lower	Upper
43	100		
58	40.7	31.6	47.4



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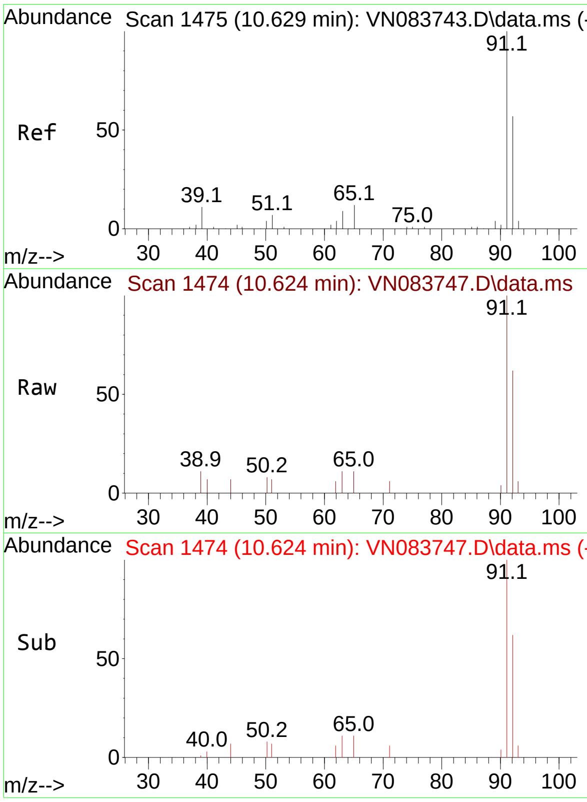
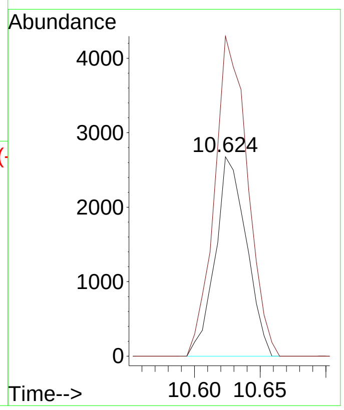
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

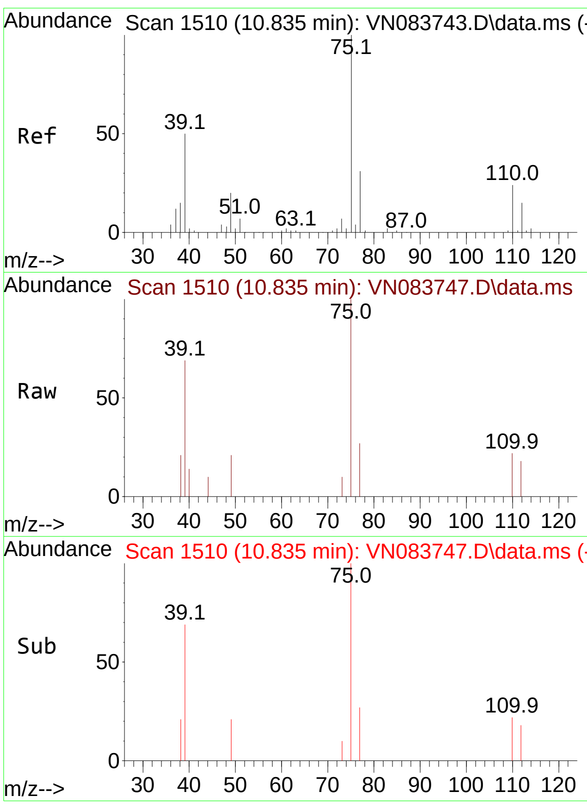


#52
Toluene
Concen: 0.925 ug/l
RT: 10.624 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 92 Resp: 441

Ion	Ratio	Lower	Upper
92	100		
91	170.6	134.7	202.1

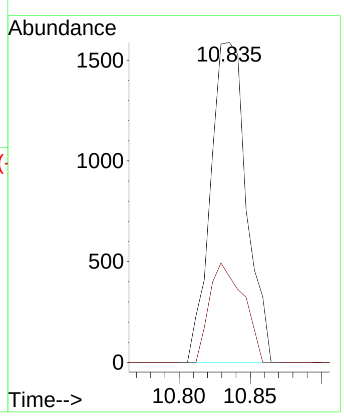




#53
t-1,3-Dichloropropene
Concen: 0.965 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 75 Resp: 2794

Ion	Ratio	Lower	Upper
75	100		
77	26.9	25.8	38.6



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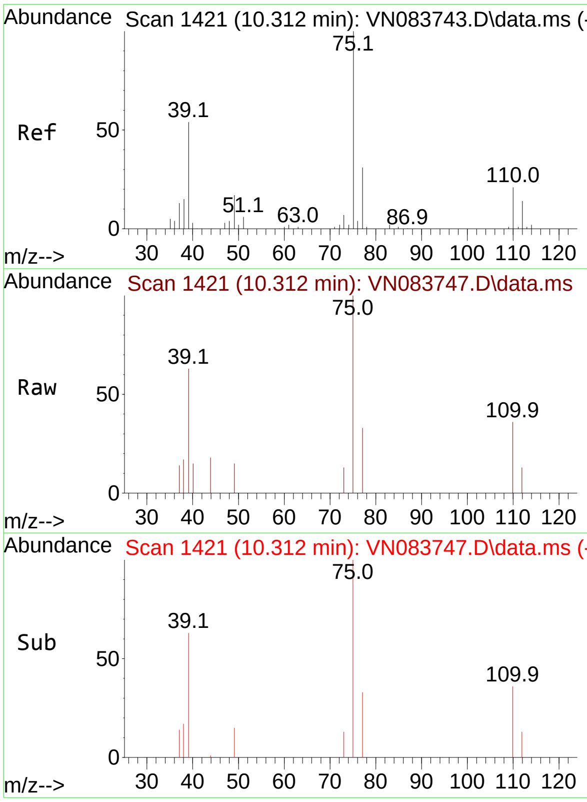
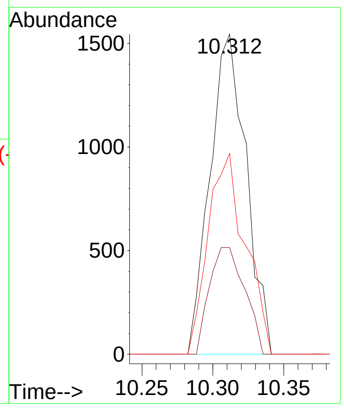
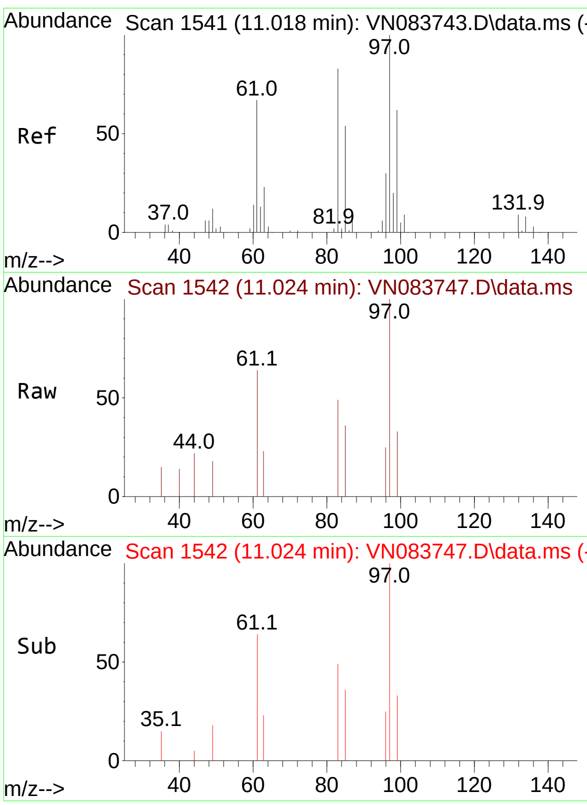


#54
cis-1,3-Dichloropropene
Concen: 0.901 ug/l
RT: 10.312 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 75 Resp: 274

Ion	Ratio	Lower	Upper
75	100		
77	33.3	25.0	37.6
39	62.8	42.6	64.0

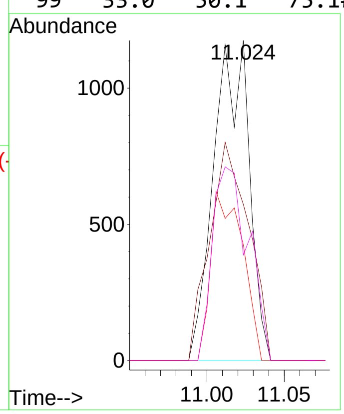




#55
1,1,2-Trichloroethane
Concen: 1.043 ug/l
RT: 11.024 min Scan# 1542
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 97 Resp: 1858

Ion	Ratio	Lower	Upper
97	100		
83	48.8	67.5	101.3#
85	36.1	44.2	66.2#
99	33.0	50.1	75.1#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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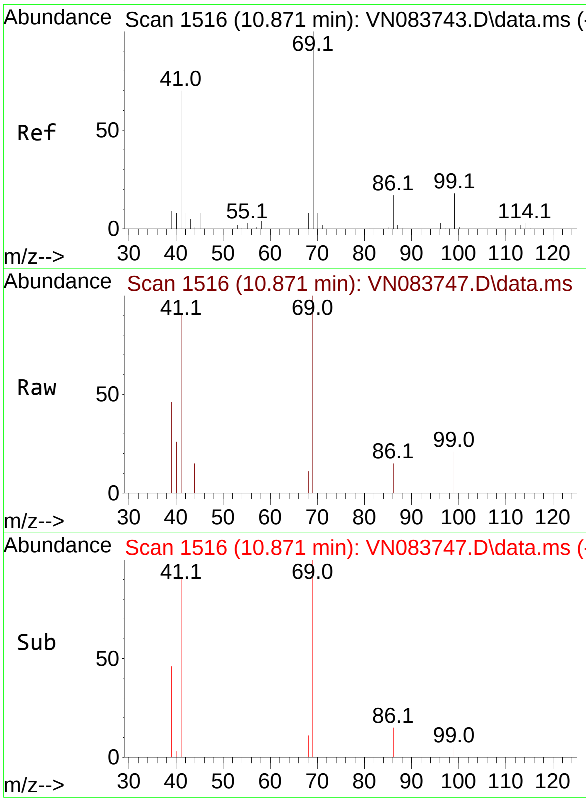
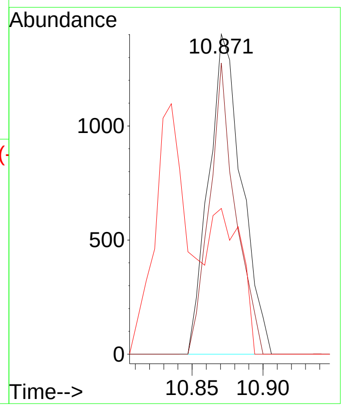
Supervised By :Semsettin Yesilyurt 09/11/2024

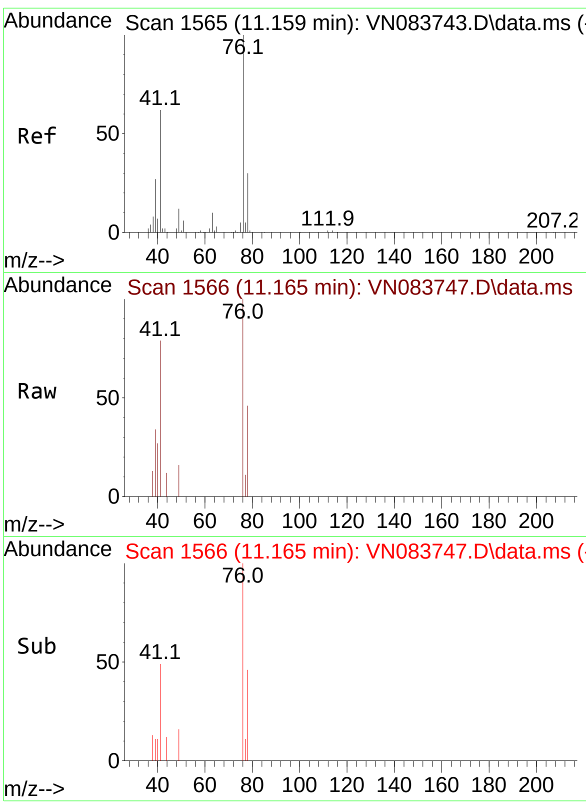


#56
Ethyl methacrylate
Concen: 0.830 ug/l
RT: 10.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 69 Resp: 2275

Ion	Ratio	Lower	Upper
69	100		
41	71.9	53.9	80.9
39	41.8	32.6	48.8

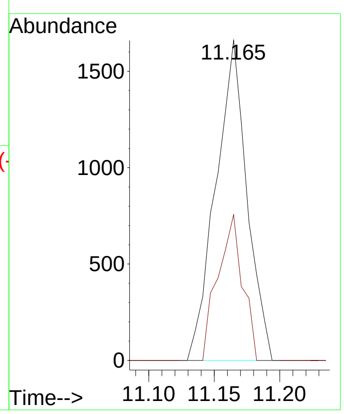


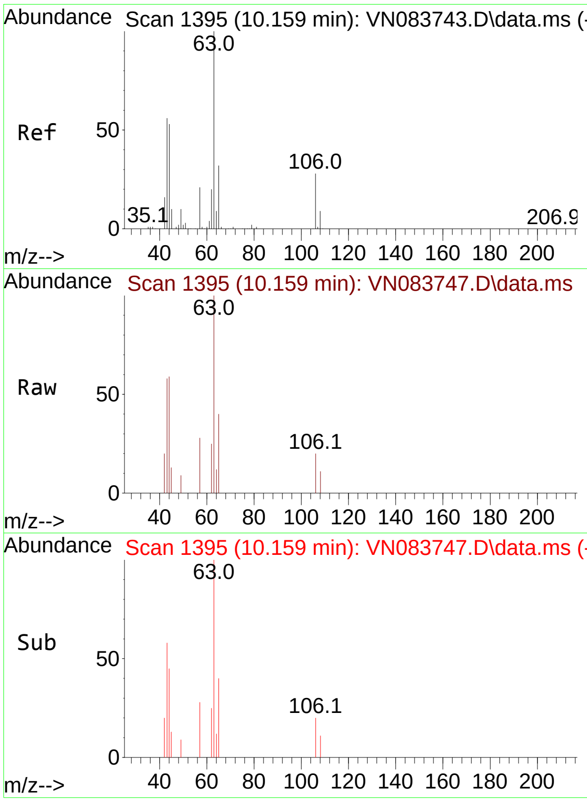


#57
1,3-Dichloropropane
Concen: 0.900 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 76 Resp: 2755

Ion	Ratio	Lower	Upper
76	100		
78	36.2	25.8	38.6





#58
2-Chloroethyl Vinyl ether
Concen: 3.880 ug/l
RT: 10.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 383

Ion	Ratio	Lower	Upper
63	100		
106	28.2	23.3	34.9

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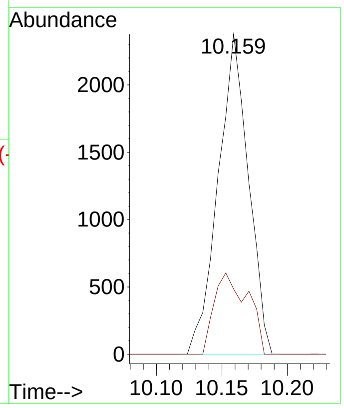

1
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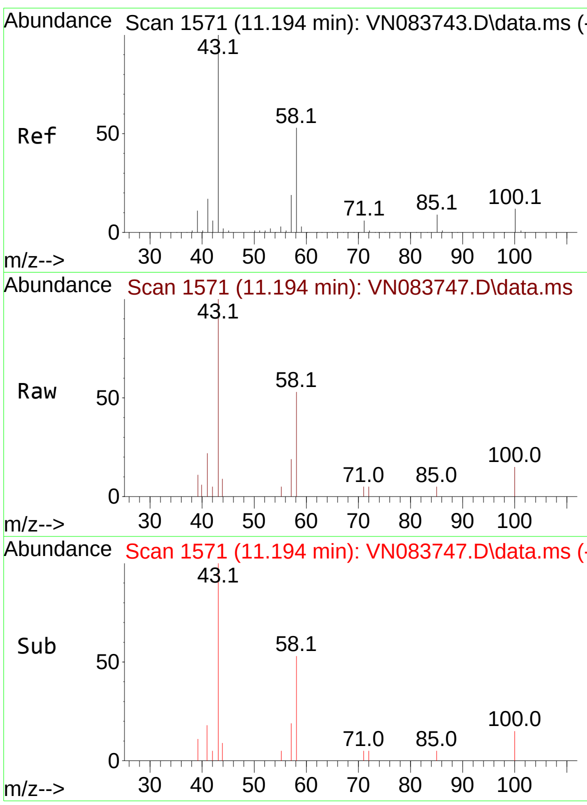
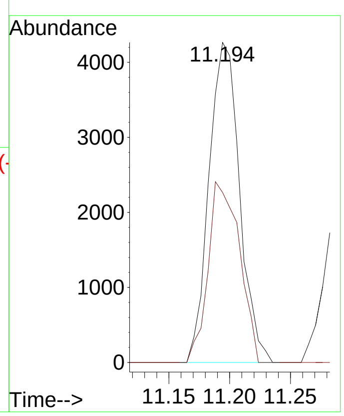


#59
2-Hexanone
Concen: 4.348 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 43 Resp: 7463

Ion	Ratio	Lower	Upper
43	100		
58	57.8	27.2	81.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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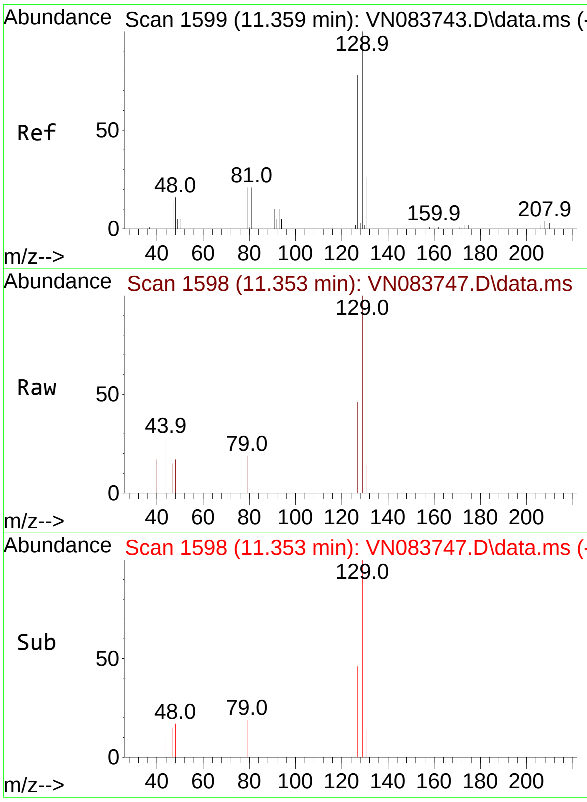
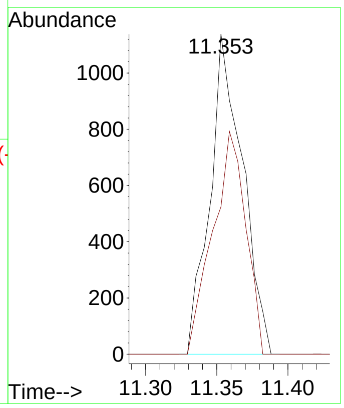
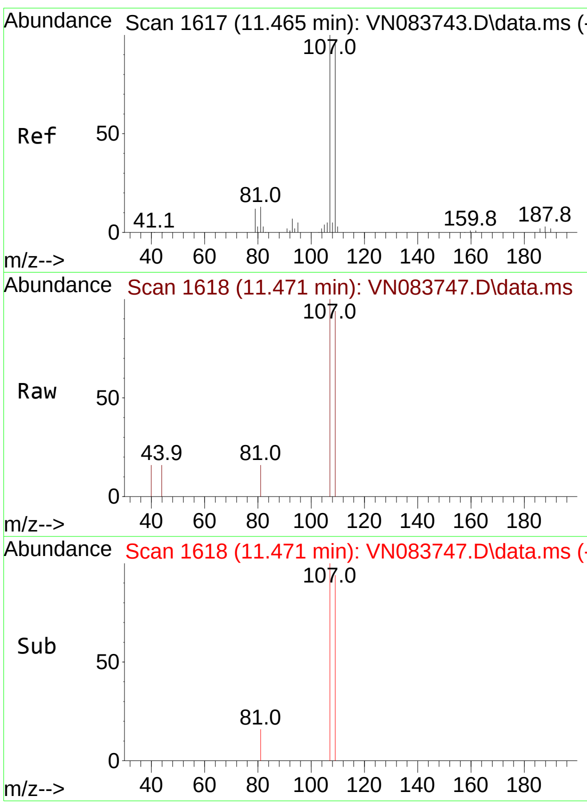


#60
Dibromochloromethane
Concen: 0.910 ug/l
RT: 11.353 min Scan# 1!
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:129 Resp: 181

Ion	Ratio	Lower	Upper
129	100		
127	70.7	39.0	116.9

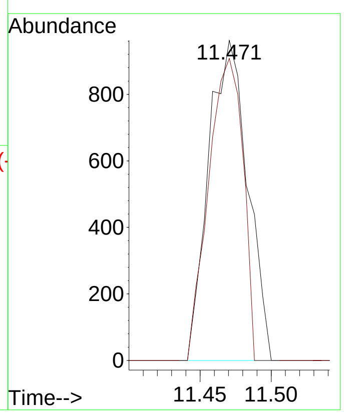


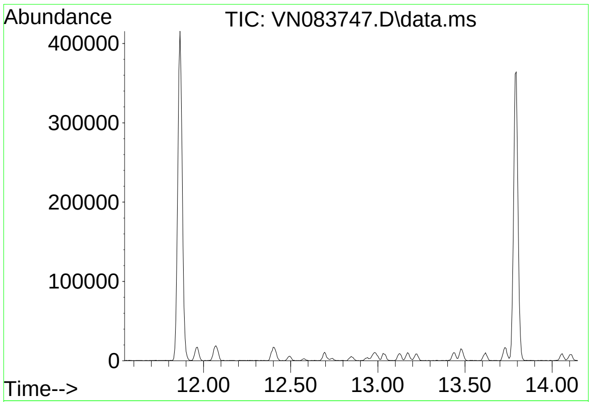


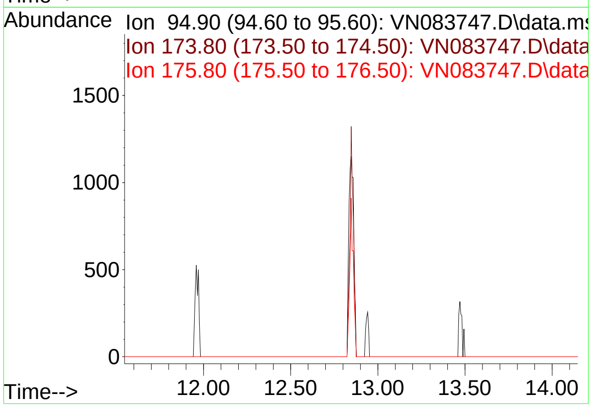
#61
1,2-Dibromoethane
Concen: 1.035 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:107 Resp: 1838

Ion	Ratio	Lower	Upper
107	100		
109	83.2	75.6	113.4







#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.85 min

Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 95

Sig	Exp Ratio
95	100
174	69.9
176	65.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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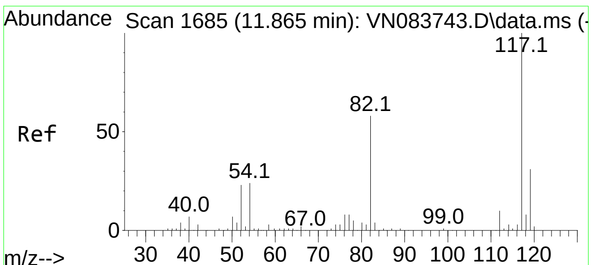
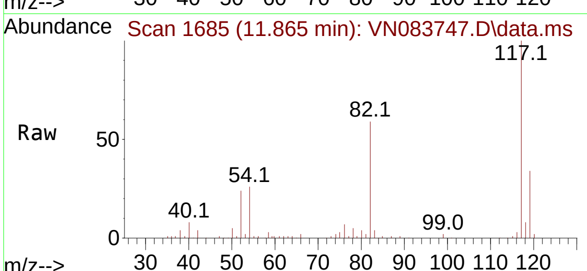
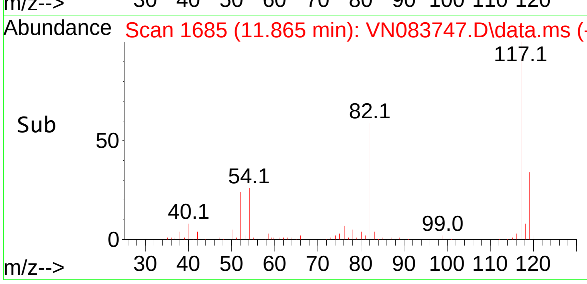


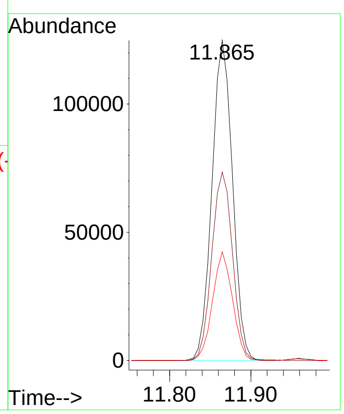




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:117 Resp: 219654

Ion	Ratio	Lower	Upper
117	100		
82	58.8	47.4	71.0
119	34.0	26.3	39.5



Instrument : MSVOA_N
ClientSampleId : VSTDICC001

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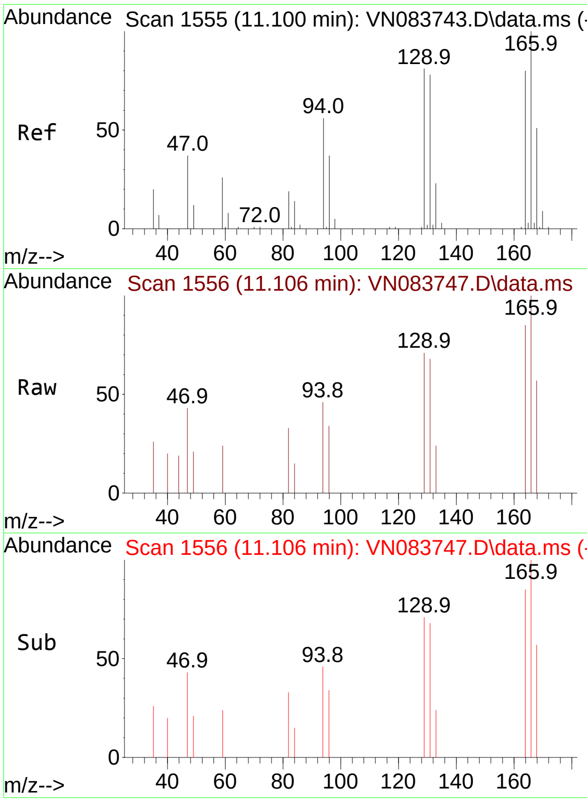
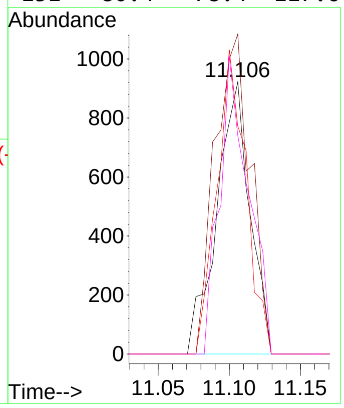
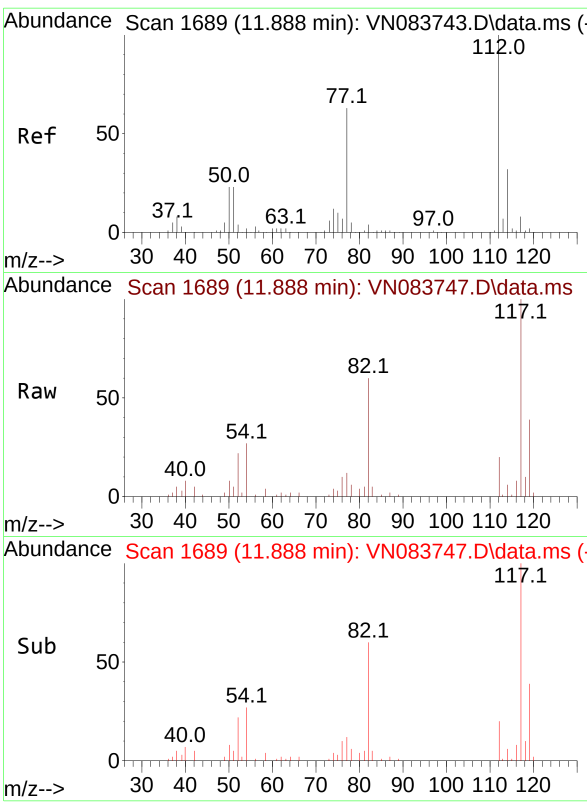


#64
Tetrachloroethene
Concen: 1.025 ug/l
RT: 11.106 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:164 Resp: 149

Ion	Ratio	Lower	Upper
164	100		
166	117.6	103.7	155.5
129	83.7	79.9	119.9
131	80.4	78.4	117.6

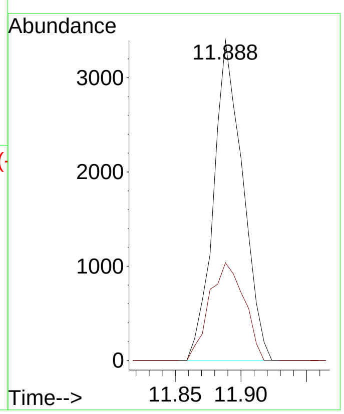


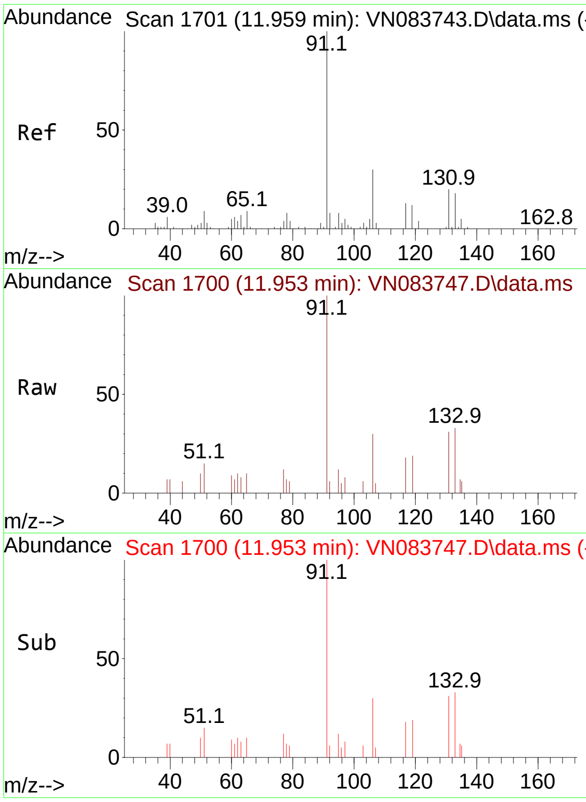


#65
Chlorobenzene
Concen: 1.076 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:112 Resp: 5253

Ion	Ratio	Lower	Upper
112	100		
114	30.5	25.7	38.5





#66
1,1,1,2-Tetrachloroethane
Concen: 0.988 ug/l
RT: 11.953 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:131 Resp: 167

Ion	Ratio	Lower	Upper
131	100		
133	99.6	47.5	142.6
119	0.0	31.6	94.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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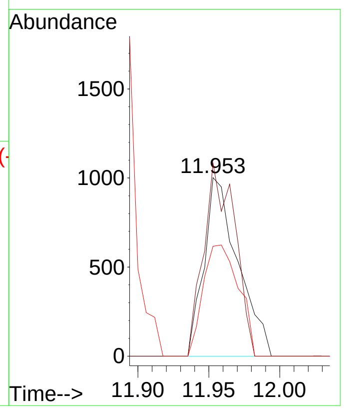
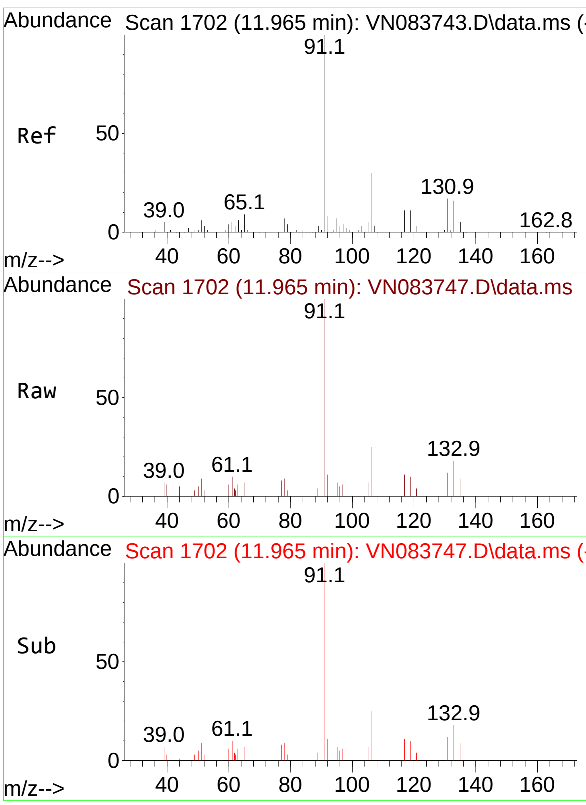
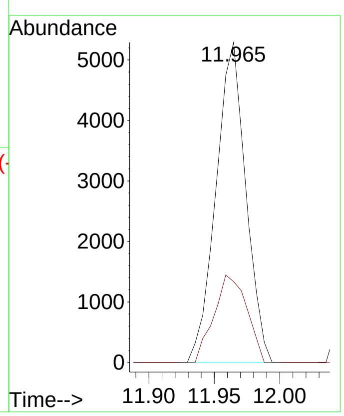


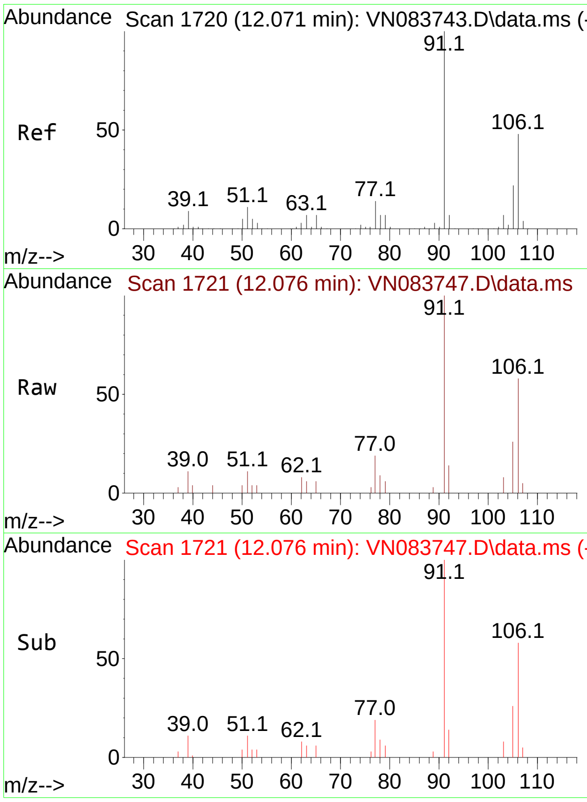


#67
Ethyl Benzene
Concen: 0.969 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 91 Resp: 8403

Ion	Ratio	Lower	Upper
91	100		
106	25.3	24.3	36.5





#68
m/p-Xylenes
Concen: 1.946 ug/l
RT: 12.076 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:106 Resp: 626

Ion	Ratio	Lower	Upper
106	100		
91	203.3	169.2	253.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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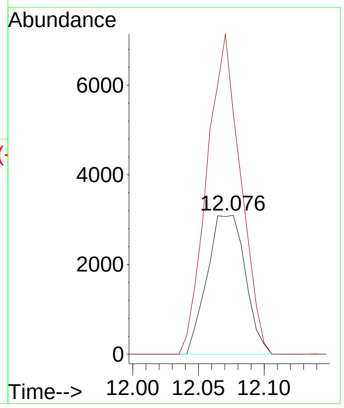
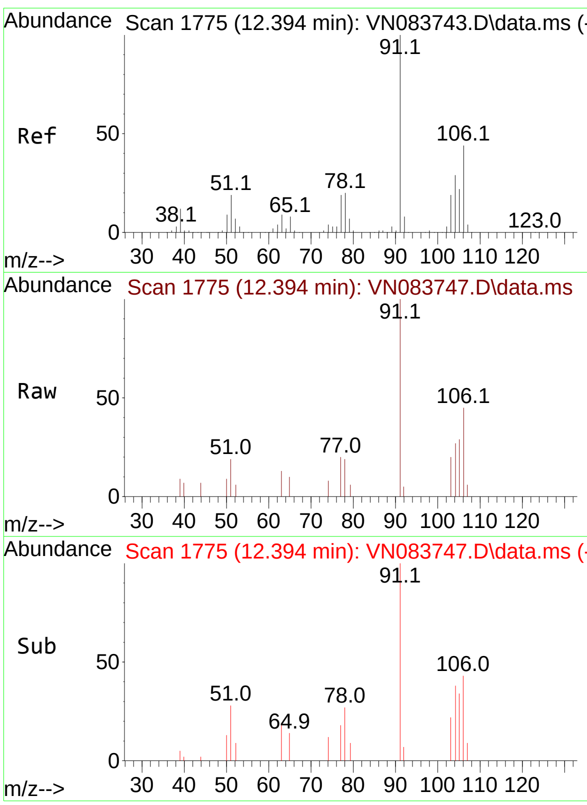


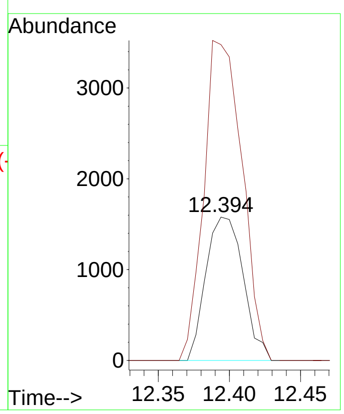
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#69
o-Xylene
Concen: 0.926 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:106 Resp: 2885

Ion	Ratio	Lower	Upper
106	100		
91	228.8	112.9	338.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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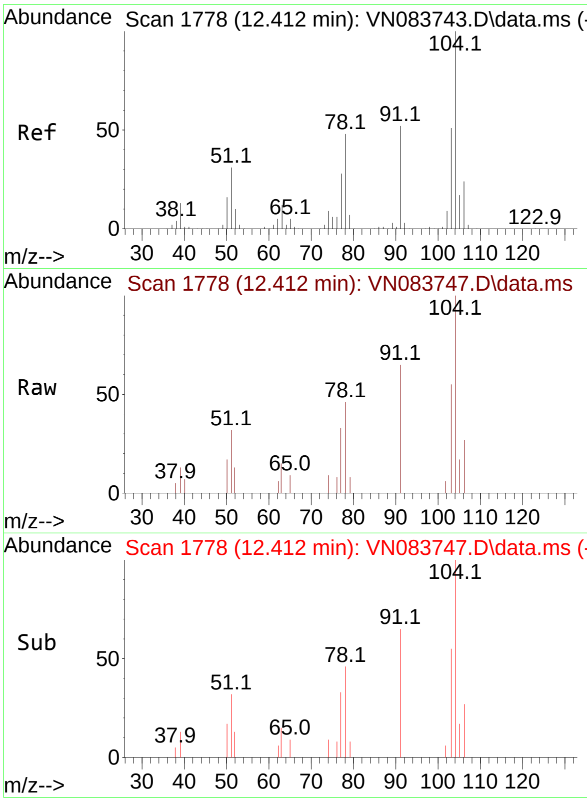
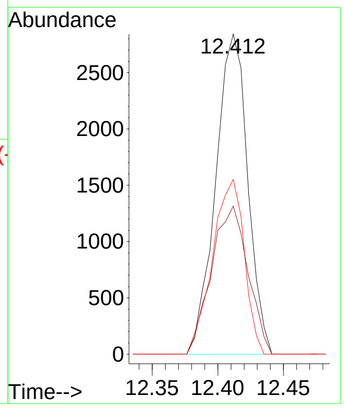
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

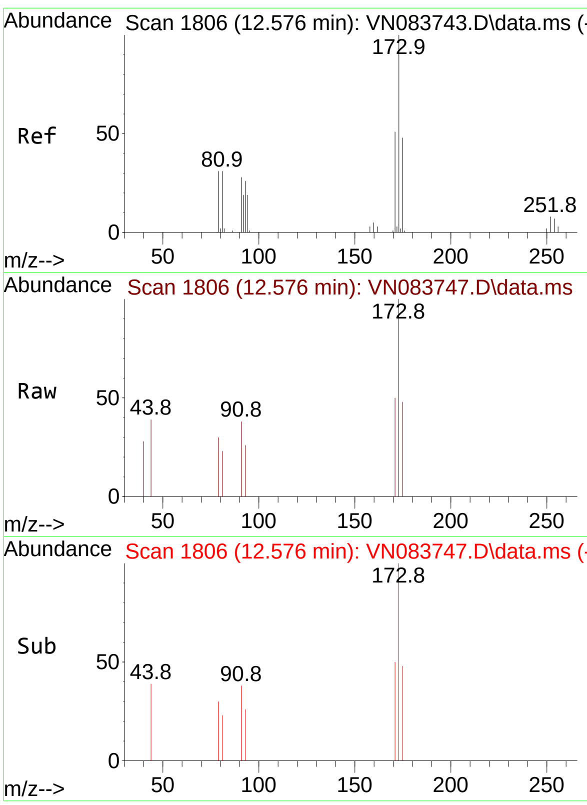


#70
Styrene
Concen: 0.945 ug/l
RT: 12.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:104 Resp: 483

Ion	Ratio	Lower	Upper
104	100		
78	52.6	43.3	64.9
103	53.9	43.4	65.2

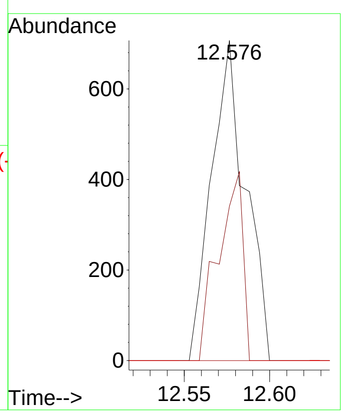




#71
Bromoform
Concen: 0.860 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:173 Resp: 981

Ion	Ratio	Lower	Upper
173	100		
175	42.8	24.1	72.2
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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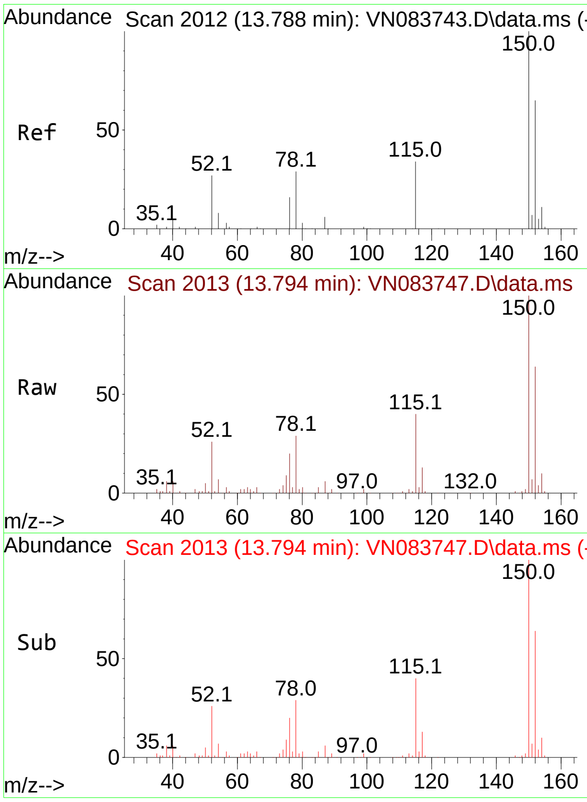
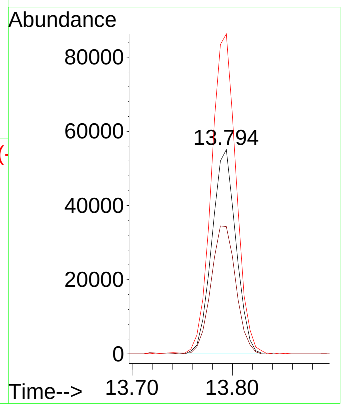
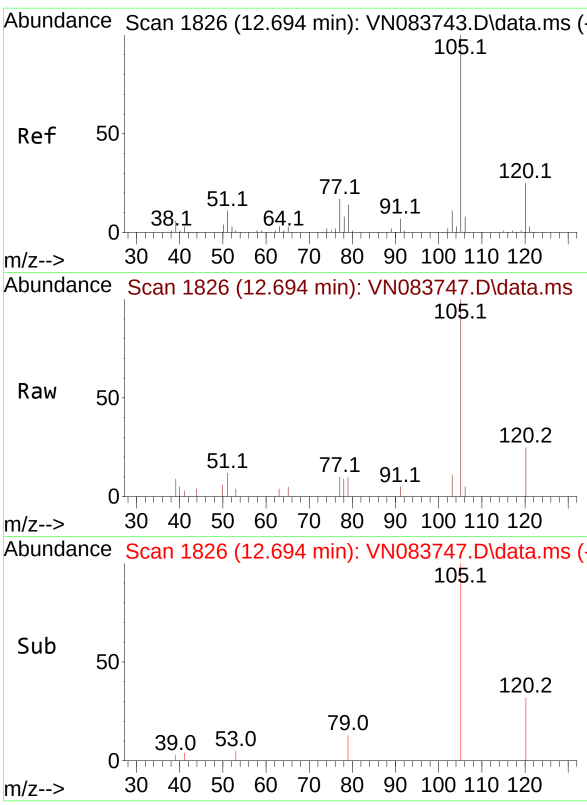


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:152 Resp: 9188

Ion	Ratio	Lower	Upper
152	100		
115	64.7	32.2	96.6
150	160.8	0.0	348.6

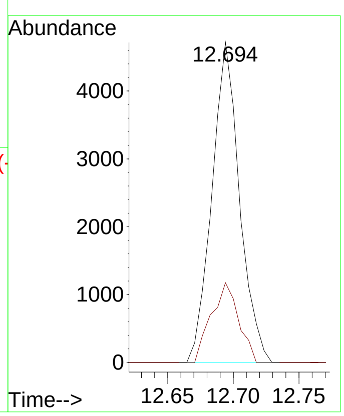




#73
Isopropylbenzene
Concen: 0.972 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:105 Resp: 6908

Ion	Ratio	Lower	Upper
105	100		
120	24.6	12.6	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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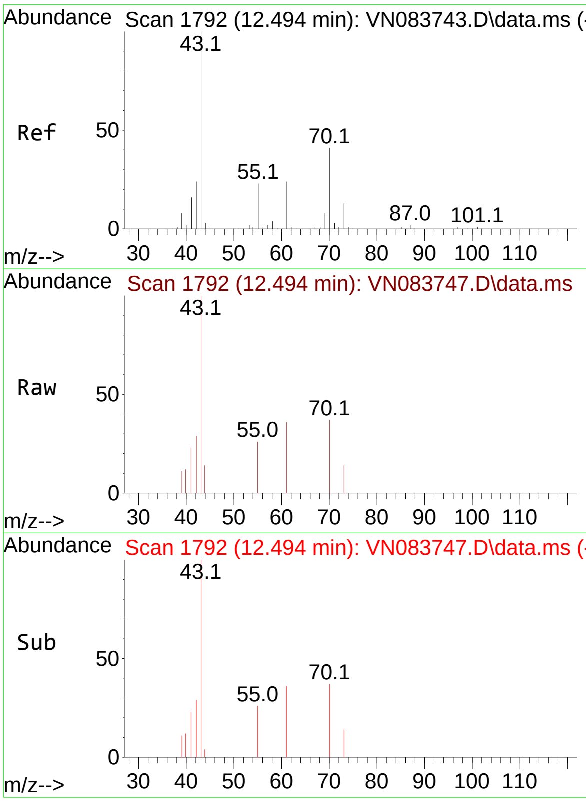
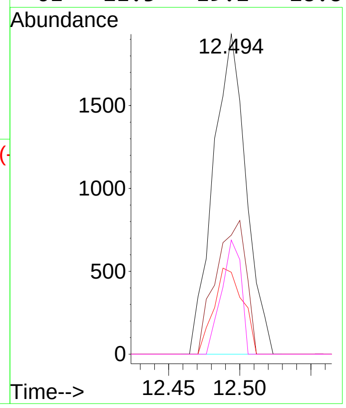
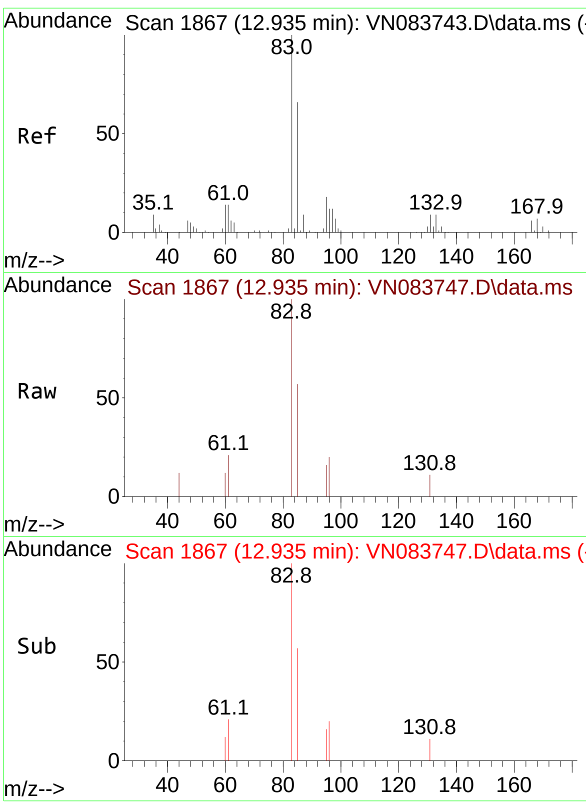


#74
N-amyl acetate
Concen: 1.022 ug/l
RT: 12.494 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 43 Resp: 3100

Ion	Ratio	Lower	Upper
43	100		
70	38.6	34.5	51.7
55	23.6	18.6	28.0
61	21.3	19.2	28.8

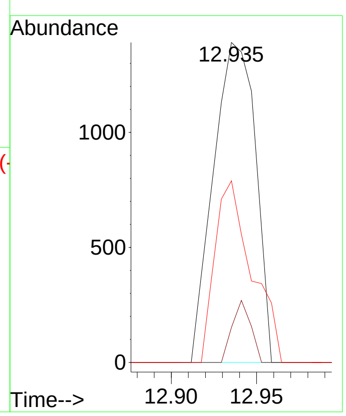


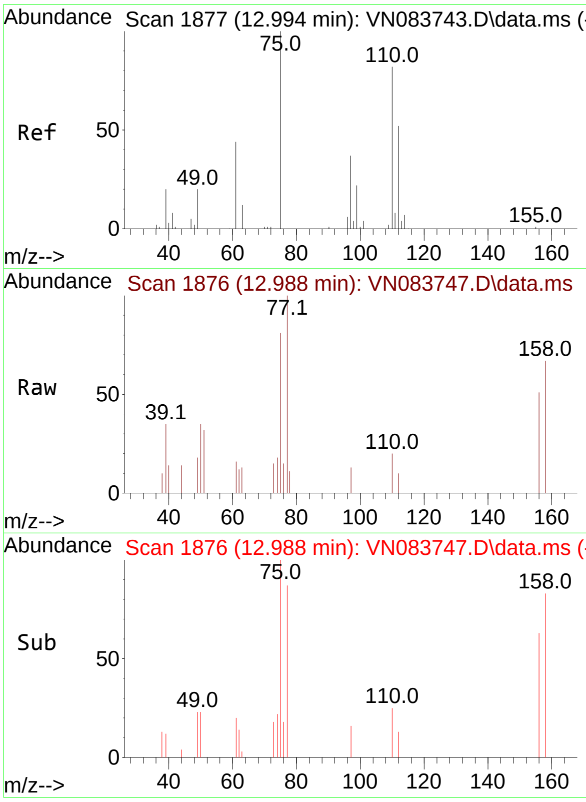


#75
1,1,2,2-Tetrachloroethane
Concen: 1.142 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 83 Resp: 2386

Ion	Ratio	Lower	Upper
83	100		
131	8.5	5.2	15.6
85	49.8	31.9	95.9





#76
1,2,3-Trichloropropane
Concen: 1.114 ug/l m
RT: 12.988 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

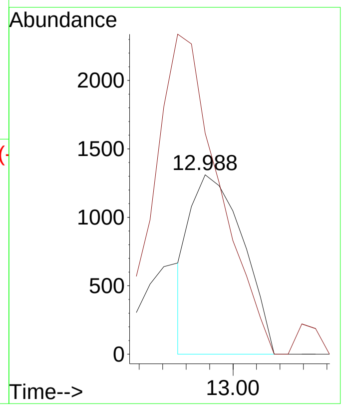
Tgt Ion: 75 Resp: 206

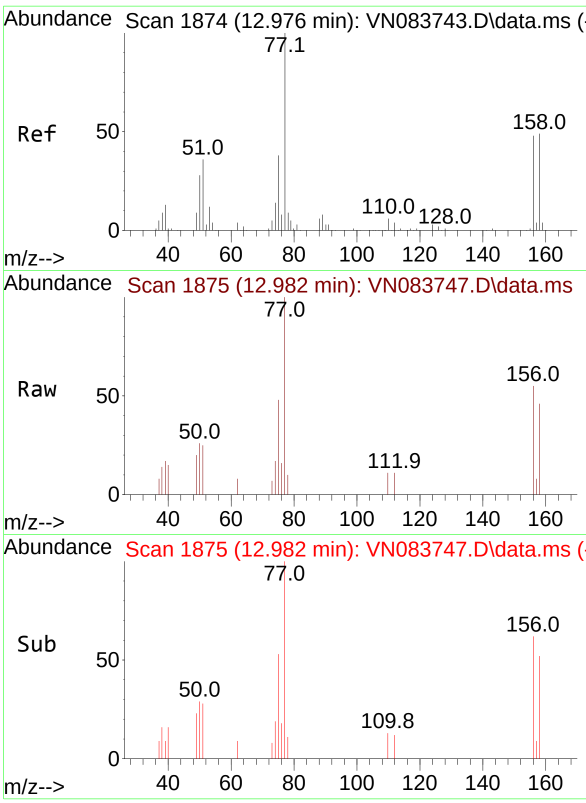
Ion	Ratio	Lower	Upper
75	100		
77	216.7	95.2	285.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone   09/11/2024
Supervised By :Semsettin Yesilyurt   09/11/2024

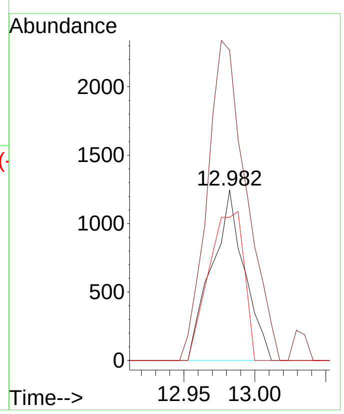


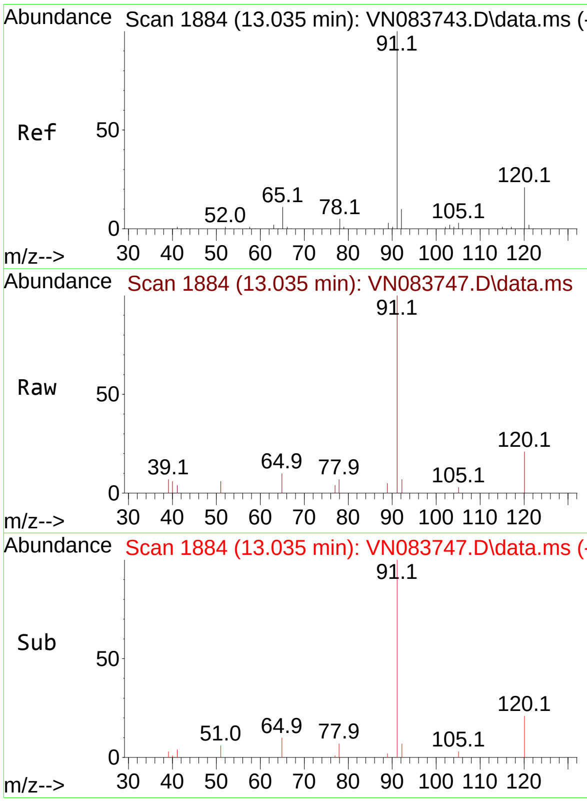


#77
Bromobenzene
Concen: 1.167 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:156 Resp: 1996

Ion	Ratio	Lower	Upper
156	100		
77	224.2	114.3	343.1
158	94.1	48.9	146.7





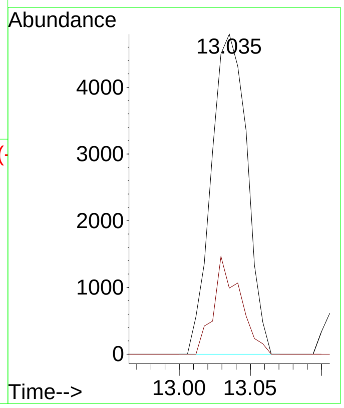
#78
n-propylbenzene
Concen: 1.013 ug/l
RT: 13.035 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

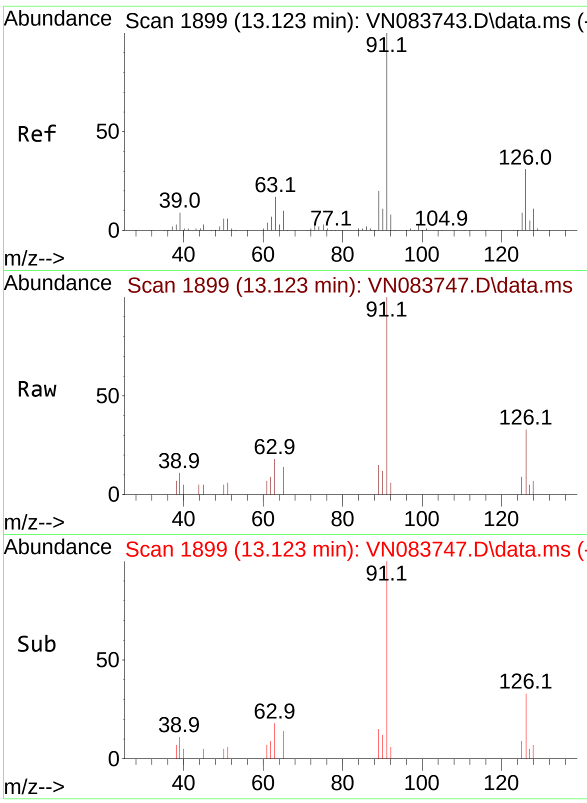
Tgt Ion: 91 Resp: 8379

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.0	33.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

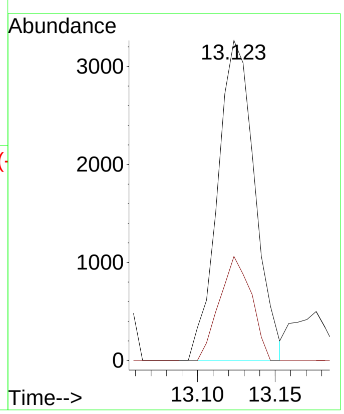




#79
2-Chlorotoluene
Concen: 1.031 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 91 Resp: 5437

Ion	Ratio	Lower	Upper
91	100		
126	27.9	15.4	46.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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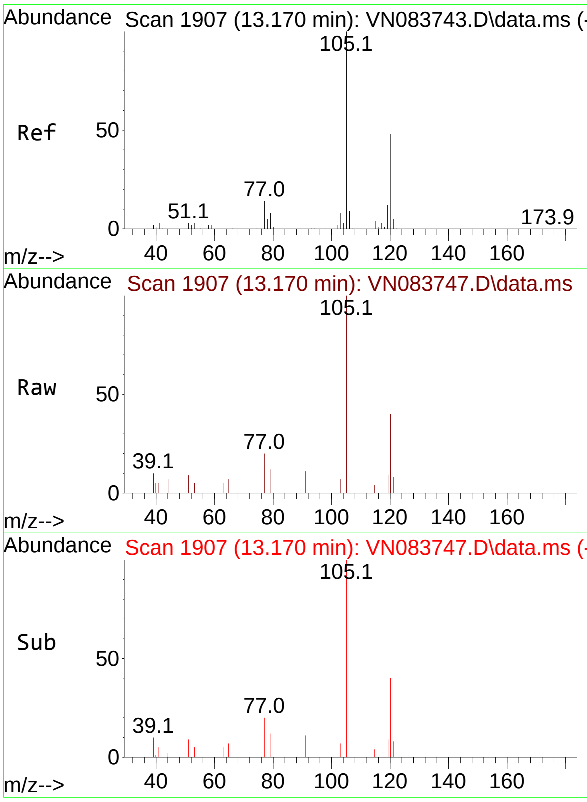
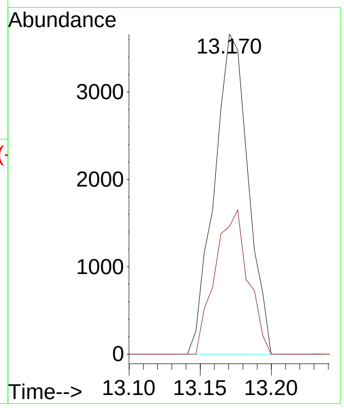
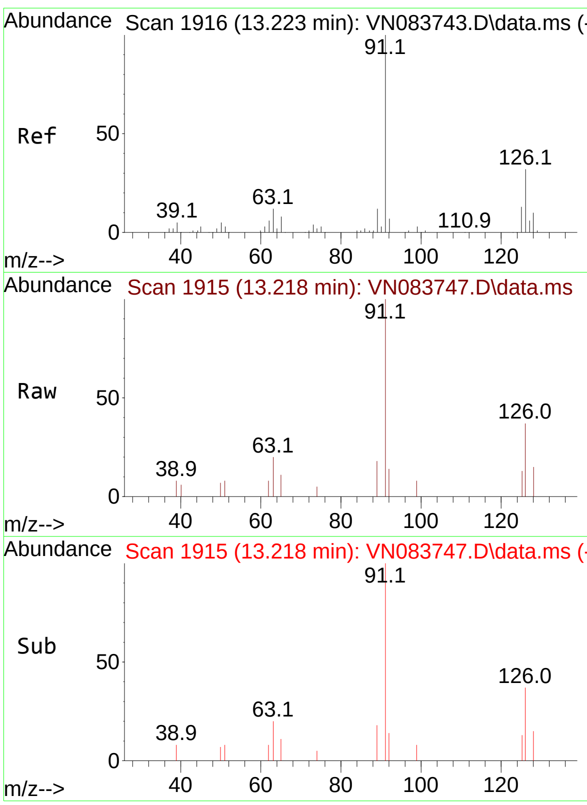


#80
1,3,5-Trimethylbenzene
Concen: 1.015 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:105 Resp: 608

Ion	Ratio	Lower	Upper
105	100		
120	44.0	23.4	70.3

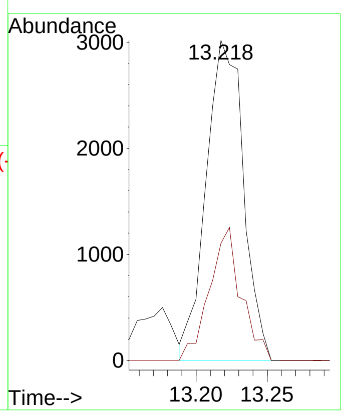




#82
4-Chlorotoluene
Concen: 1.038 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 91 Resp: 5495

Ion	Ratio	Lower	Upper
91	100		
126	35.4	15.4	46.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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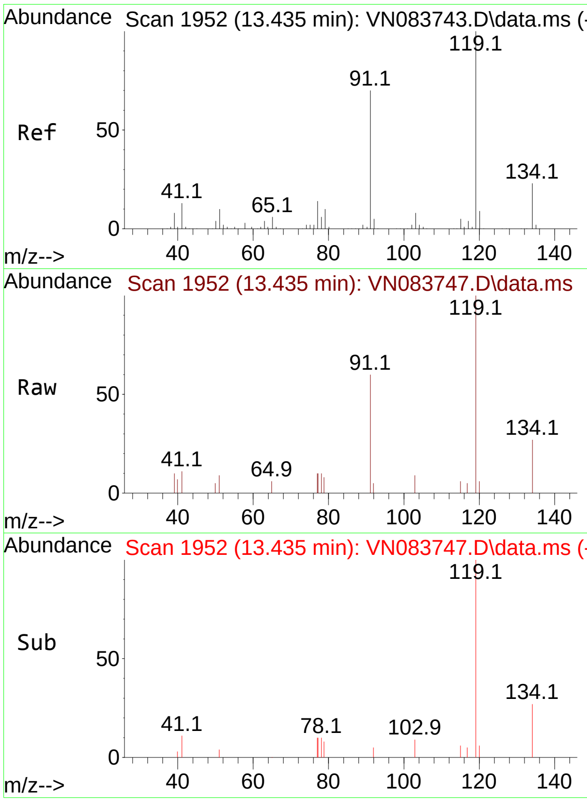
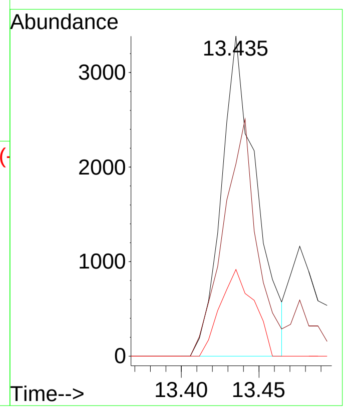
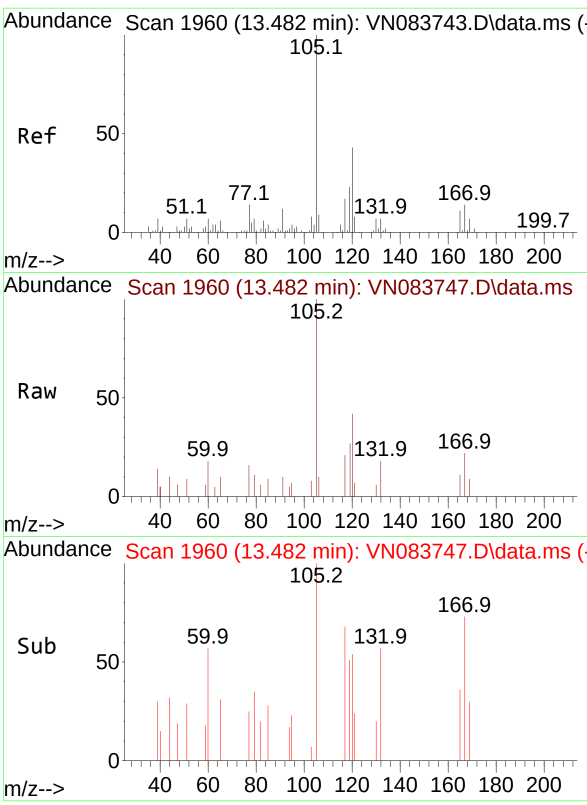


#83
tert-Butylbenzene
Concen: 1.013 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:119 Resp: 531

Ion	Ratio	Lower	Upper
119	100		
91	71.6	34.5	103.6
134	25.9	12.8	38.4

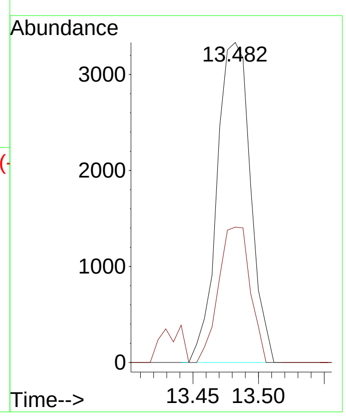




#84
1,2,4-Trimethylbenzene
Concen: 0.982 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:105 Resp: 5912

Ion	Ratio	Lower	Upper
105	100		
120	40.0	21.8	65.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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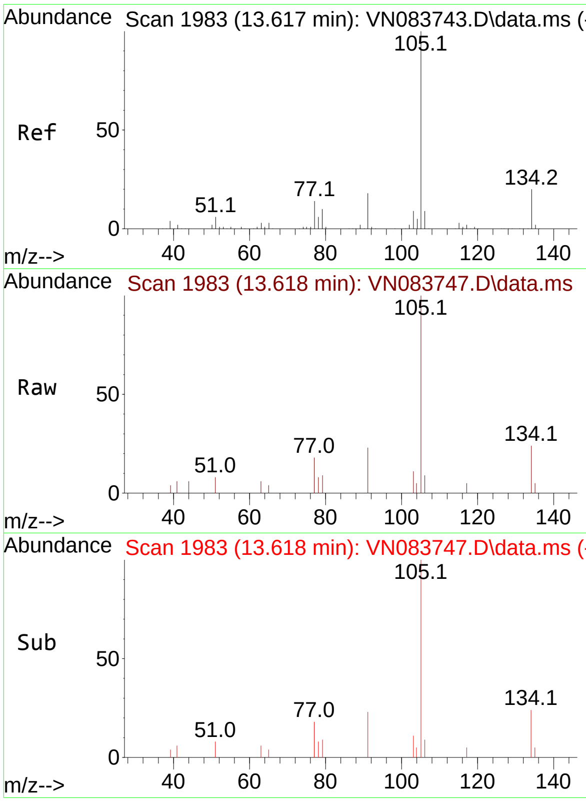
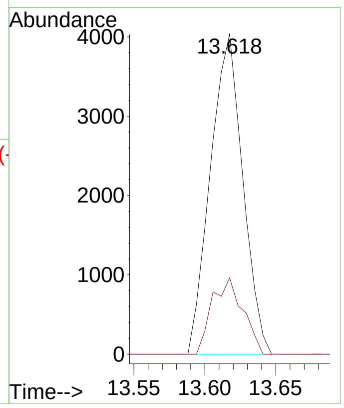
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

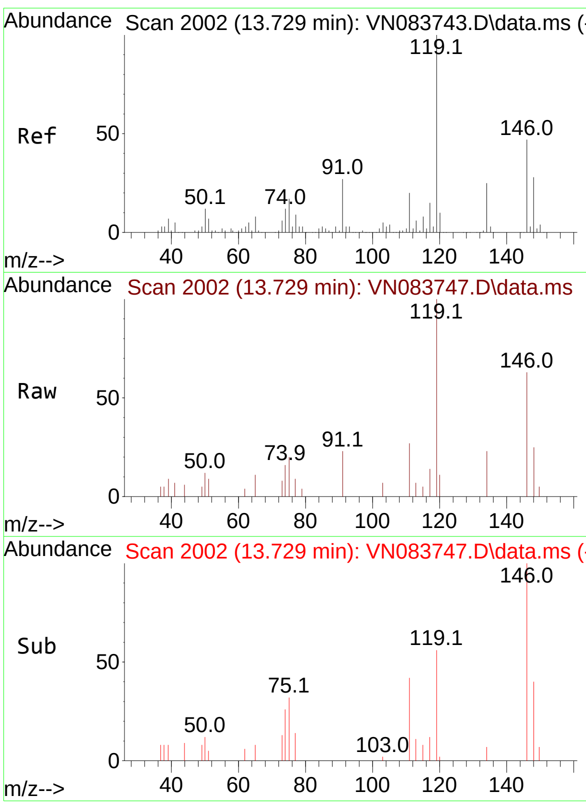


#85
sec-Butylbenzene
Concen: 0.922 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:105 Resp: 640

Ion	Ratio	Lower	Upper
105	100		
134	22.7	9.7	29.1

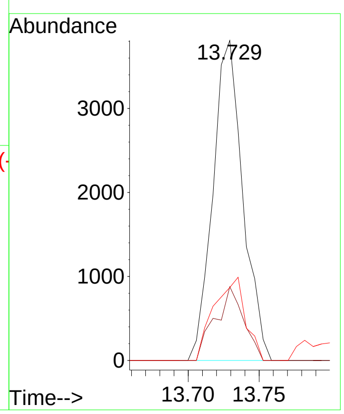




#86
p-Isopropyltoluene
Concen: 0.959 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:119 Resp: 5592

Ion	Ratio	Lower	Upper
119	100		
134	22.0	12.8	38.3
91	27.3	12.9	38.7



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument : MSVOA_N
ClientSampleId : VSTDICC001

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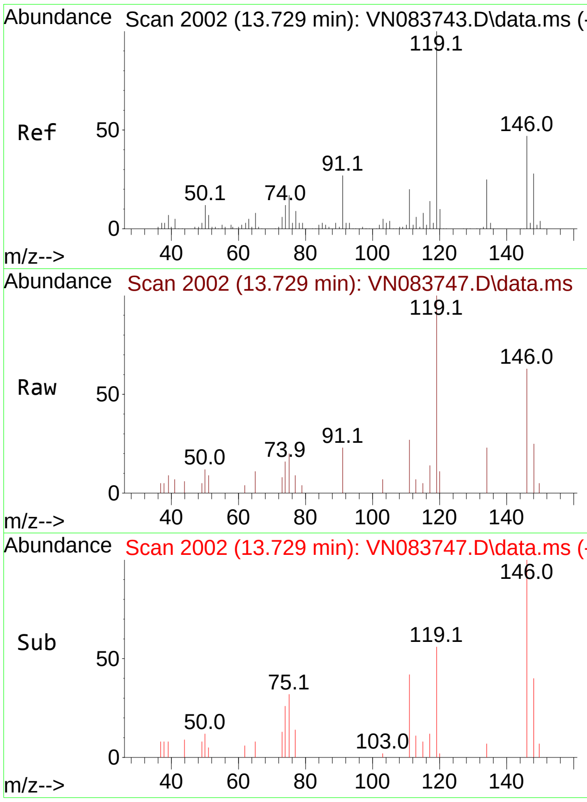
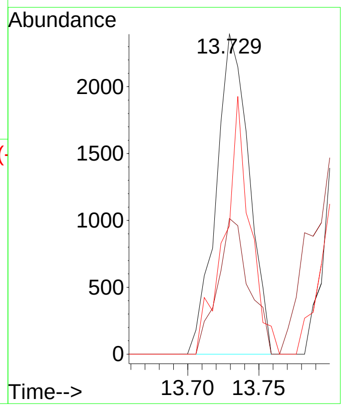
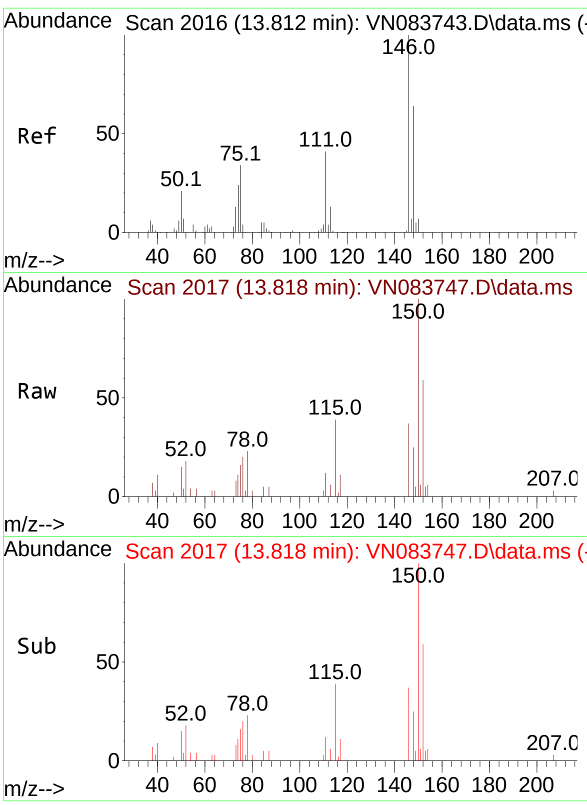


#87
1,3-Dichlorobenzene
Concen: 1.193 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:146 Resp: 385

Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.7	65.1
148	62.5	31.7	95.1

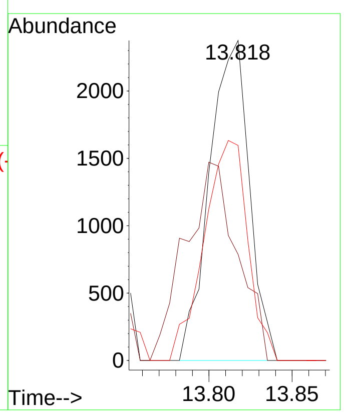


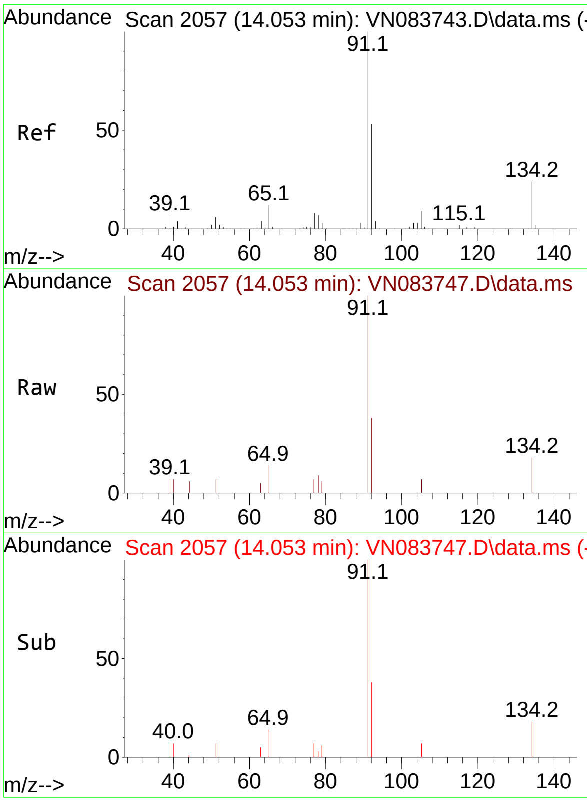


#88
1,4-Dichlorobenzene
Concen: 1.210 ug/l m
RT: 13.818 min Scan# 2017
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:146 Resp: 3958

Ion	Ratio	Lower	Upper
146	100		
111	39.9	21.3	64.0
148	60.8	32.0	96.2

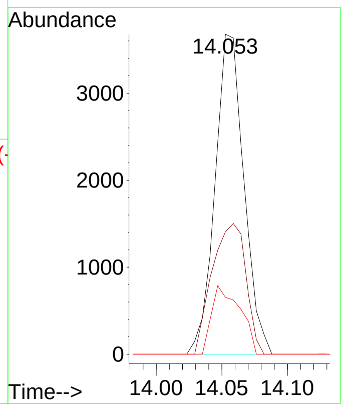




#89
n-Butylbenzene
Concen: 1.074 ug/l
RT: 14.053 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 91 Resp: 562

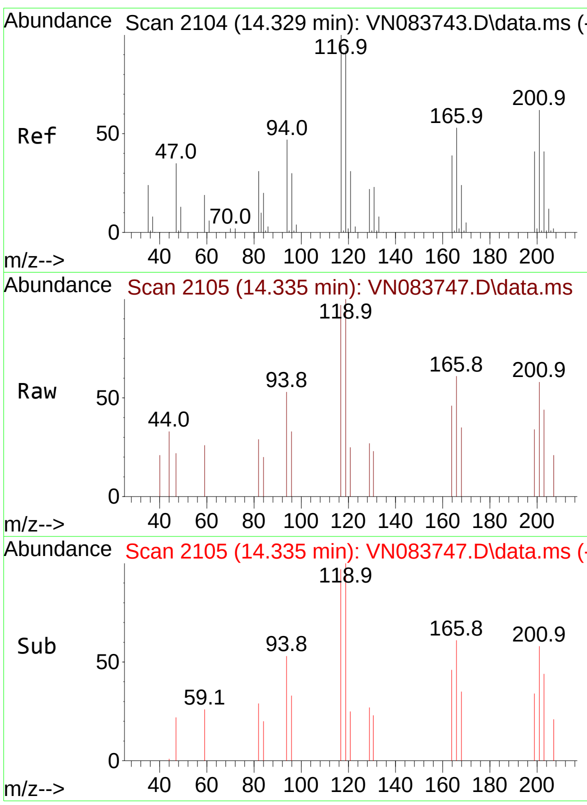
Ion	Ratio	Lower	Upper
91	100		
92	47.9	26.7	80.1
134	21.0	12.2	36.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

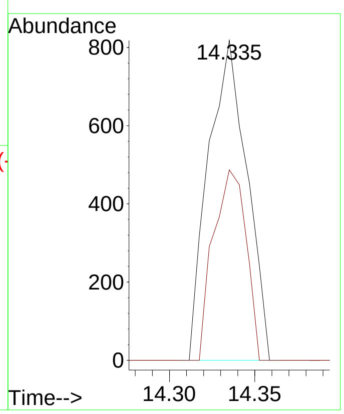
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#90
Hexachloroethane
Concen: 1.097 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:117 Resp: 1285

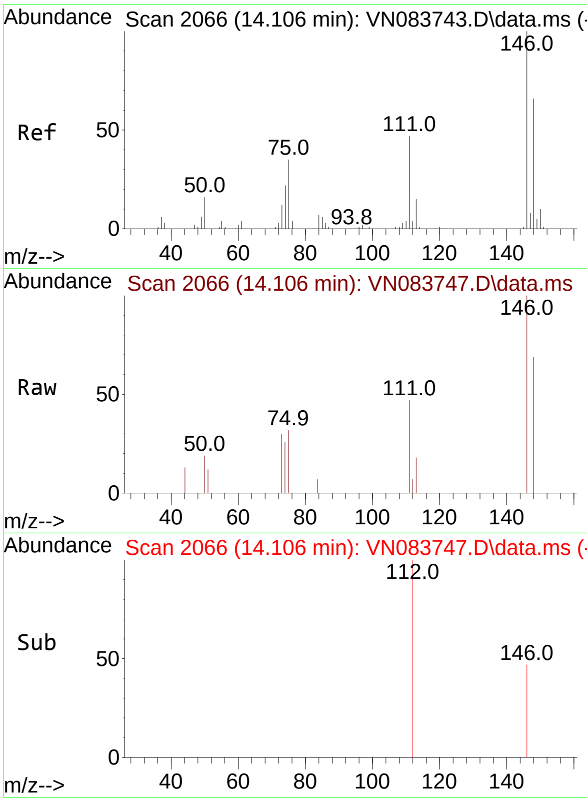
Ion	Ratio	Lower	Upper
117	100		
201	50.6	32.8	98.3



Instrument : MSVOA_N
ClientSampleId : VSTDICC001

Manual Integrations APPROVED

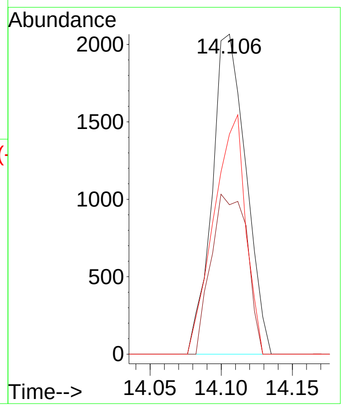
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

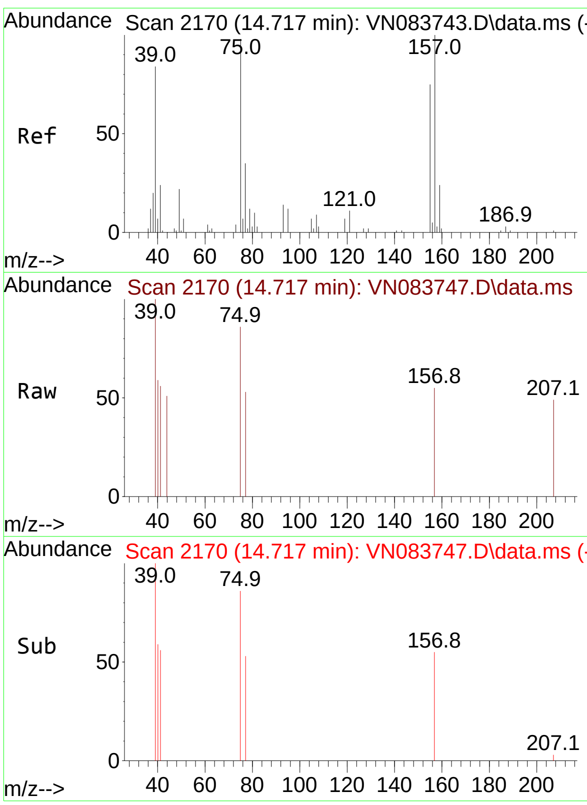


#91
1,2-Dichlorobenzene
Concen: 1.097 ug/l
RT: 14.106 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:146 Resp: 341

Ion	Ratio	Lower	Upper
146	100		
111	53.1	22.8	68.3
148	70.8	32.1	96.5

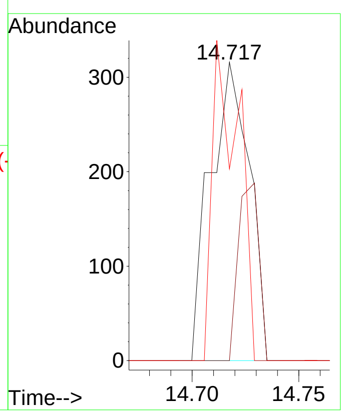




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.970 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion: 75 Resp: 404

Ion	Ratio	Lower	Upper
75	100		
155	31.7	35.9	107.7#
157	72.5	47.5	142.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
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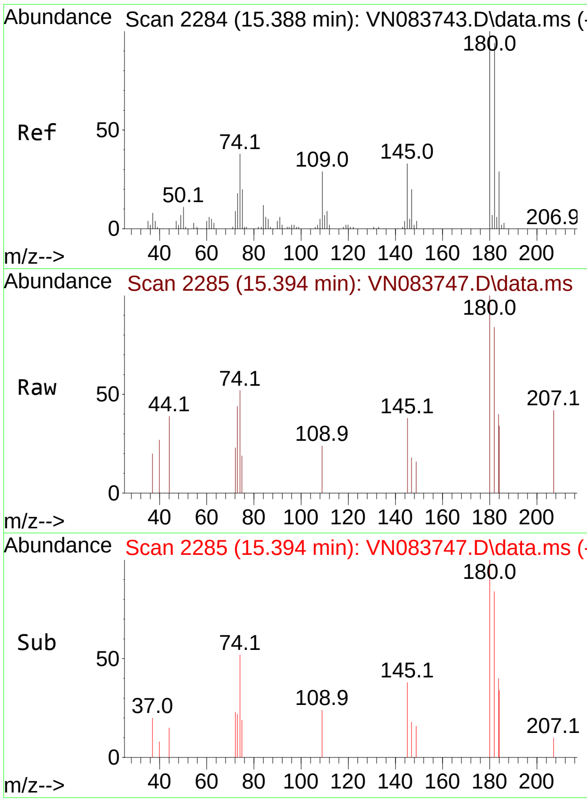
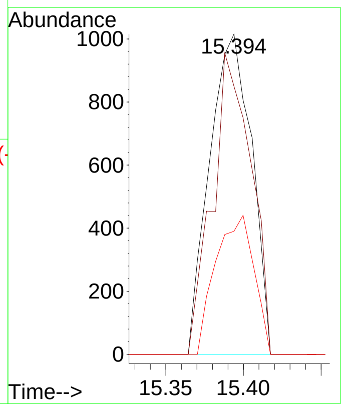
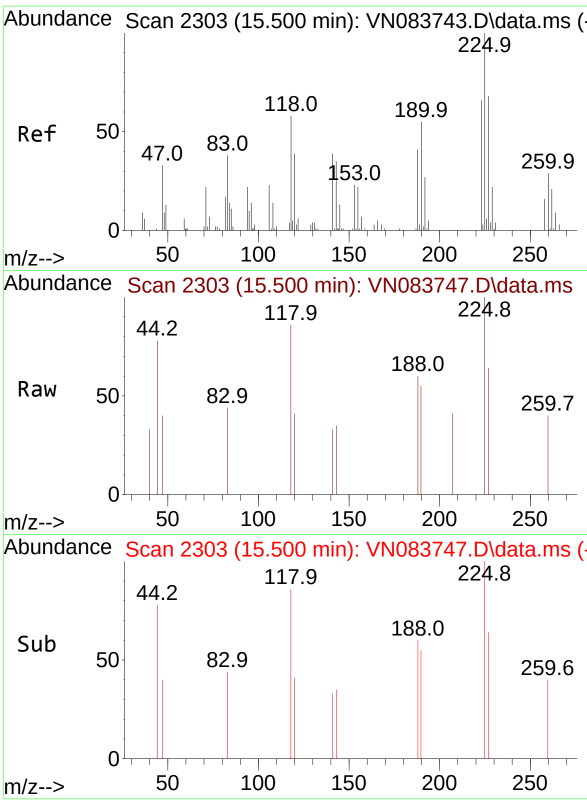


#93
1,2,4-Trichlorobenzene
Concen: 1.140 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:180 Resp: 190

Ion	Ratio	Lower	Upper
180	100		
182	86.8	48.1	144.3
145	39.7	16.9	50.7

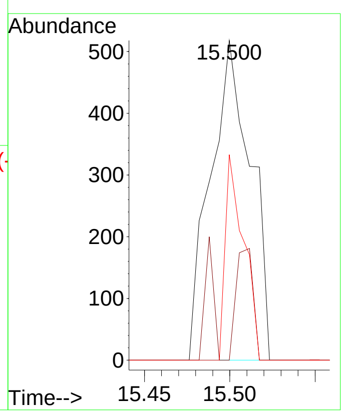




#94
Hexachlorobutadiene
Concen: 1.194 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:225 Resp: 848

Ion	Ratio	Lower	Upper
225	100		
223	14.7	31.9	95.5#
227	29.7	32.0	96.2#



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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Reviewed By :John Carlone 09/11/2024
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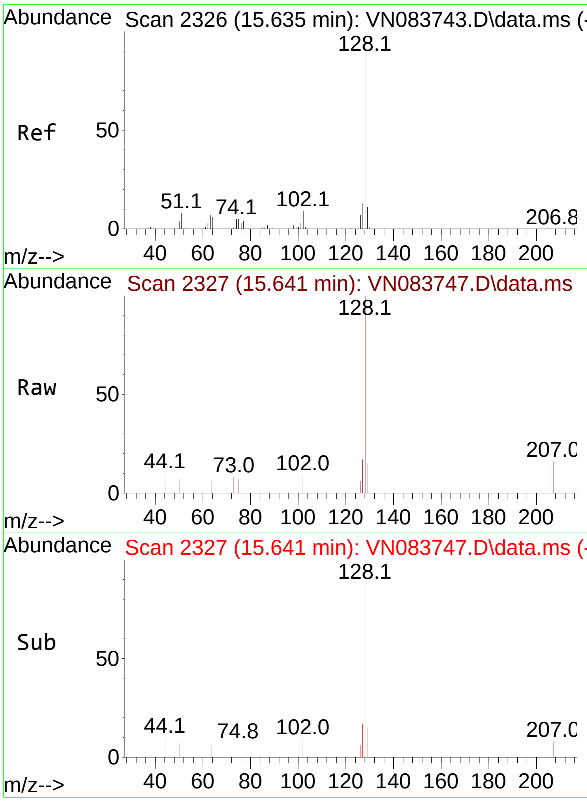
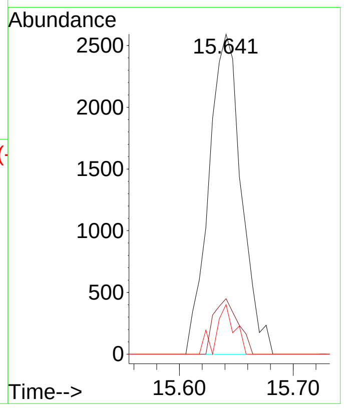
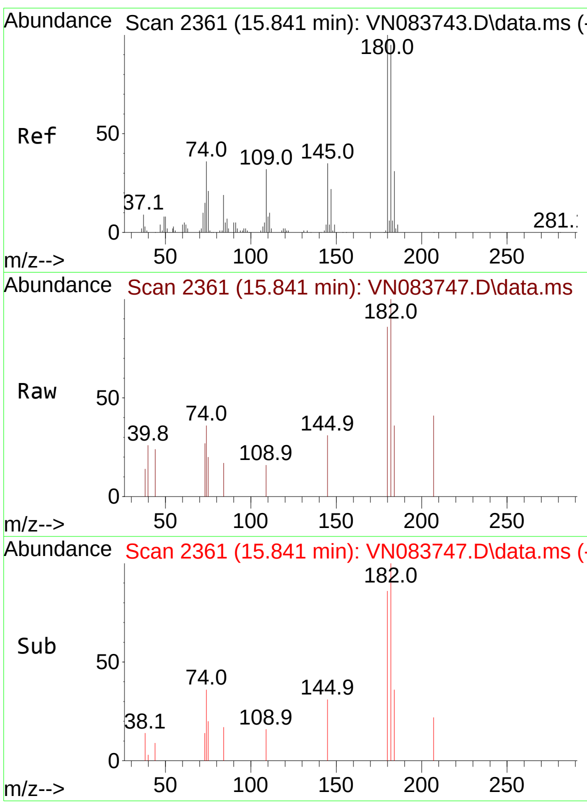


#95
Naphthalene
Concen: 1.014 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:128 Resp: 516

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	8.8	8.7	13.1

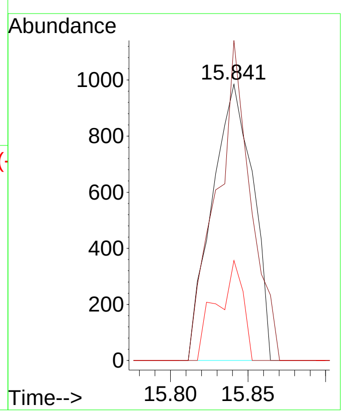




#96
1,2,3-Trichlorobenzene
Concen: 1.128 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083747.D
Acq: 10 Sep 2024 11:32

Tgt Ion:180 Resp: 1803

Ion	Ratio	Lower	Upper
180	100		
182	97.5	47.1	141.4
145	23.3	17.8	53.5



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083749.D
Acq On : 10 Sep 2024 12:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Quant Time: Sep 11 01:58:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	153102	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	259980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	230981	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	120031	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	44799	19.406	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	38.820%#		
35) Dibromofluoromethane	8.159	113	33344	20.034	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	40.060%#		
50) Toluene-d8	10.565	98	117482	20.418	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	40.840%#		
62) 4-Bromofluorobenzene	12.847	95	52334	22.046	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	44.100%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	37820	21.271	ug/l	99
3) Chloromethane	2.359	50	42184	22.207	ug/l	95
4) Vinyl Chloride	2.512	62	42371	21.741	ug/l	93
5) Bromomethane	2.901	94	25120	22.449	ug/l	97
6) Chloroethane	3.071	64	29793	22.035	ug/l	92
7) Trichlorofluoromethane	3.471	101	75588	22.849	ug/l	98
8) Diethyl Ether	3.959	74	25651	23.131	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.353	101	41166	23.477	ug/l	98
10) Methyl Iodide	4.577	142	50200	22.511	ug/l	97
11) Tert butyl alcohol	5.542	59	35218	113.923	ug/l	98
12) 1,1-Dichloroethene	4.330	96	38356	23.162	ug/l	97
13) Acrolein	4.171	56	28707	94.116	ug/l	99
14) Allyl chloride	5.012	41	67821	22.985	ug/l	97
15) Acrylonitrile	5.718	53	96660	114.975	ug/l	100
16) Acetone	4.430	43	121335	131.110	ug/l	94
17) Carbon Disulfide	4.700	76	99836	21.553	ug/l	99
18) Methyl Acetate	5.018	43	45786	22.733	ug/l	98
19) Methyl tert-butyl Ether	5.794	73	139123	23.217	ug/l	97
20) Methylene Chloride	5.265	84	43066	22.740	ug/l	94
21) trans-1,2-Dichloroethene	5.777	96	39218	22.099	ug/l	90
22) Diisopropyl ether	6.665	45	141158	23.239	ug/l	96
23) Vinyl Acetate	6.594	43	528904	118.904	ug/l	99
24) 1,1-Dichloroethane	6.565	63	79312	22.664	ug/l	99
25) 2-Butanone	7.483	43	150475	123.710	ug/l	100
26) 2,2-Dichloropropane	7.483	77	77312	23.990	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	48657	23.096	ug/l	98
28) Bromochloromethane	7.812	49	27780	18.851	ug/l	99
29) Tetrahydrofuran	7.841	42	83865	116.606	ug/l	99
30) Chloroform	7.959	83	87460	23.542	ug/l	90
31) Cyclohexane	8.253	56	73847	22.133	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	79170	23.176	ug/l	93
36) 1,1-Dichloropropene	8.365	75	57819	23.081	ug/l	99
37) Ethyl Acetate	7.559	43	54774	24.088	ug/l	97
38) Carbon Tetrachloride	8.359	117	66860	23.526	ug/l	99
39) Methylcyclohexane	9.600	83	68785	24.123	ug/l	97
40) Benzene	8.600	78	180938	23.997	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083749.D
Acq On : 10 Sep 2024 12:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:58:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	31140	23.154 ug/l	98
42) 1,2-Dichloroethane	8.665	62	68226	24.216 ug/l	99
43) Isopropyl Acetate	8.688	43	97966	23.775 ug/l	98
44) Trichloroethene	9.353	130	40782	23.356 ug/l	96
45) 1,2-Dichloropropane	9.618	63	44560	24.451 ug/l	98
46) Dibromomethane	9.706	93	30954	24.250 ug/l	97
47) Bromodichloromethane	9.882	83	66147	23.945 ug/l #	94
48) Methyl methacrylate	9.677	41	46788	23.933 ug/l	98
49) 1,4-Dioxane	9.694	88	14984	465.914 ug/l #	96
51) 4-Methyl-2-Pentanone	10.441	43	270783	120.721 ug/l	97
52) Toluene	10.629	92	110278	23.911 ug/l	98
53) t-1,3-Dichloropropene	10.835	75	65148	23.266 ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	70696	24.035 ug/l	94
55) 1,1,2-Trichloroethane	11.018	97	40247	23.375 ug/l	96
56) Ethyl methacrylate	10.871	69	65086	24.569 ug/l	96
57) 1,3-Dichloropropane	11.159	76	70916	23.964 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	97384	102.024 ug/l	98
59) 2-Hexanone	11.194	43	210382	126.795 ug/l	98
60) Dibromochloromethane	11.359	129	45716	23.725 ug/l	99
61) 1,2-Dibromoethane	11.471	107	40643	23.669 ug/l	98
64) Tetrachloroethene	11.106	164	34851	22.688 ug/l	93
65) Chlorobenzene	11.888	112	116122	22.620 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	41153	23.124 ug/l	98
67) Ethyl Benzene	11.965	91	210713	23.106 ug/l	97
68) m/p-Xylenes	12.071	106	158230	46.734 ug/l	100
69) o-Xylene	12.400	106	76822	23.438 ug/l	99
70) Styrene	12.412	104	125129	23.262 ug/l	98
71) Bromoform	12.576	173	27805	23.185 ug/l #	99
73) Isopropylbenzene	12.694	105	198534	21.379 ug/l	100
74) N-amyl acetate	12.494	43	83761	21.141 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	55934	20.500 ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	49535m	20.452 ug/l	
77) Bromobenzene	12.982	156	44670	19.984 ug/l	100
78) n-propylbenzene	13.035	91	229309	21.223 ug/l	99
79) 2-Chlorotoluene	13.123	91	147252	21.370 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	167379	21.379 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	18748	20.274 ug/l #	80
82) 4-Chlorotoluene	13.223	91	143958	20.818 ug/l	99
83) tert-Butylbenzene	13.441	119	147261	21.499 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	167470	21.294 ug/l	100
85) sec-Butylbenzene	13.618	105	197117	21.699 ug/l	98
86) p-Isopropyltoluene	13.729	119	160758	21.110 ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	84190	19.957 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	82492	19.311 ug/l	99
89) n-Butylbenzene	14.059	91	140204	20.506 ug/l	99
90) Hexachloroethane	14.335	117	31578	20.629 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	83557	20.523 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.723	75	11364	20.893 ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	42008	19.228 ug/l	98
94) Hexachlorobutadiene	15.500	225	19047	20.528 ug/l	99
95) Naphthalene	15.641	128	128956	19.401 ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	40335	19.317 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083749.D
Acq On : 10 Sep 2024 12:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 01:58:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

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

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ICAL Form

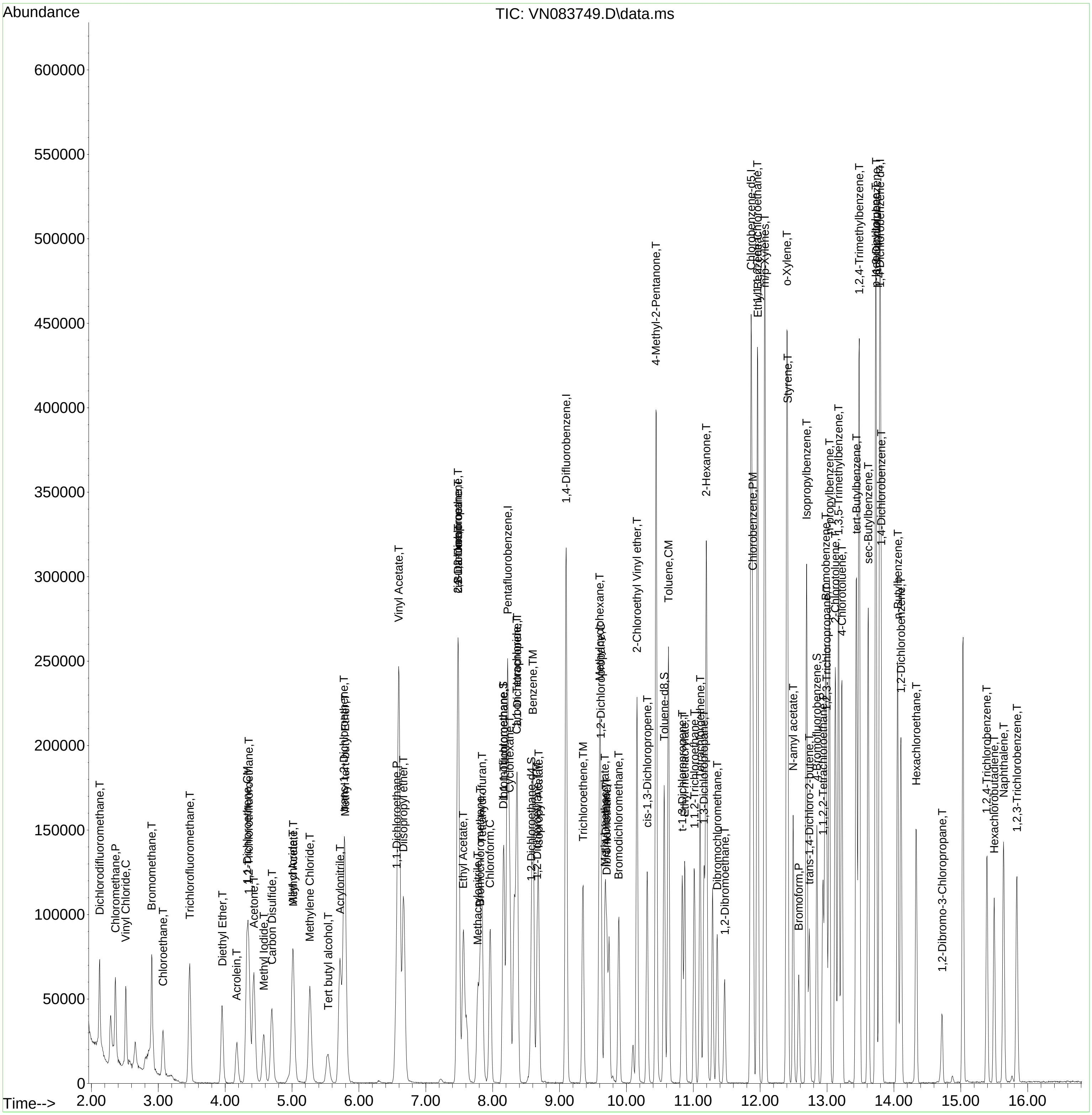
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083749.D
Acq On   : 10 Sep 2024 12:43
Operator : JC\MD
Sample   : VSTDICC020
Misc   : 5.0mL/MSVOA_N/WATER
ALS Vial : 10   Sample Multiplier: 1

Quant Time: Sep 11 01:58:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 01:38:19 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED
Reviewed By :John Carlone   09/11/2024
Supervised By :Semsettin Yesilyurt   09/11/2024

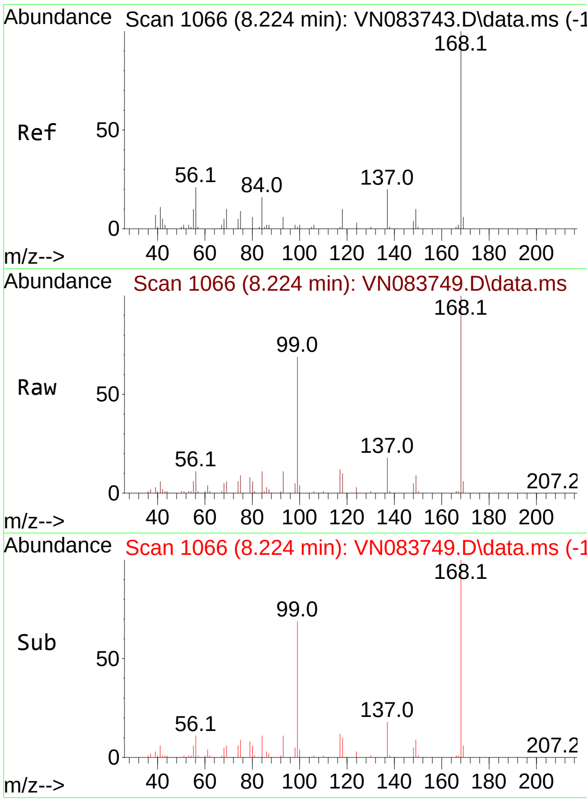
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

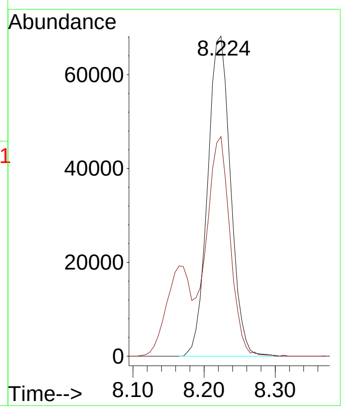
Manual Integrations APPROVED

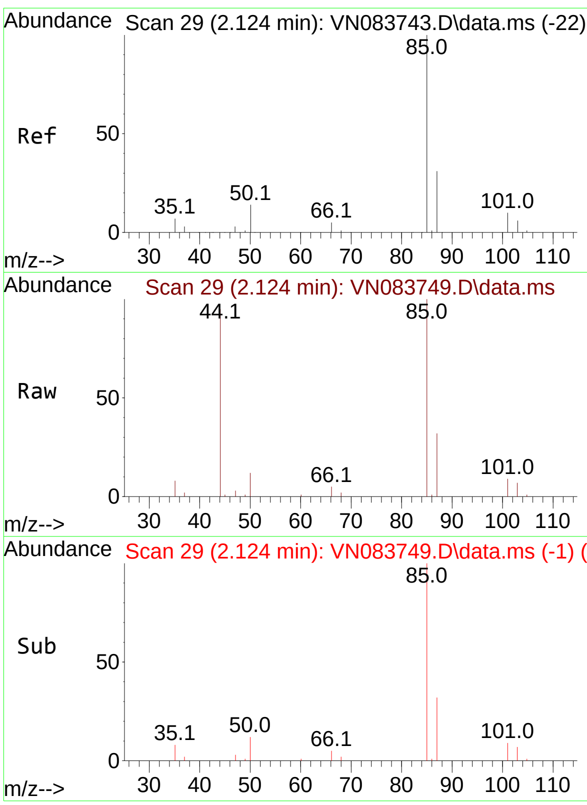
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

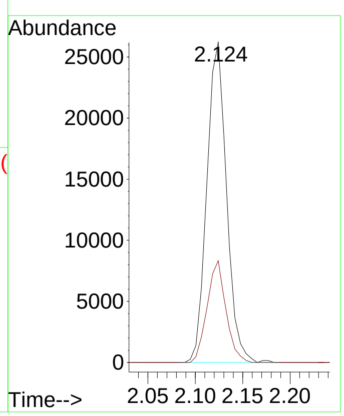
Tgt Ion:168 Resp: 15310
Ion Ratio Lower Upper
168 100
99 68.6 54.2 81.2





#2
Dichlorodifluoromethane
Concen: 21.271 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

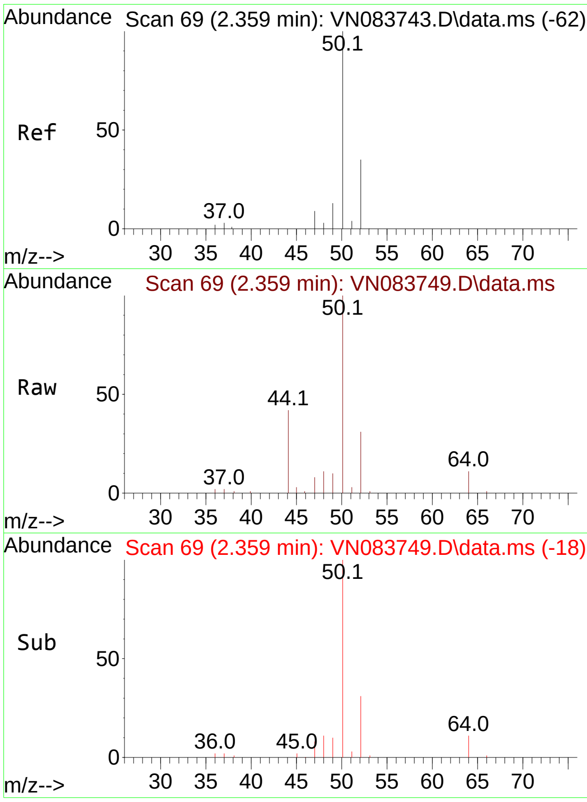
Tgt Ion: 85 Resp: 37820
Ion Ratio Lower Upper
85 100
87 31.8 15.7 47.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

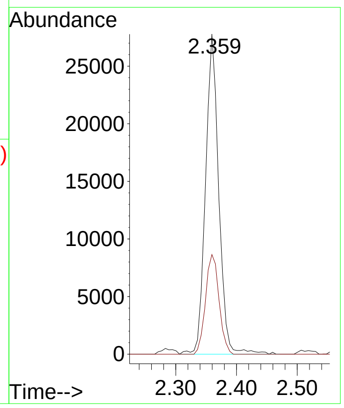
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

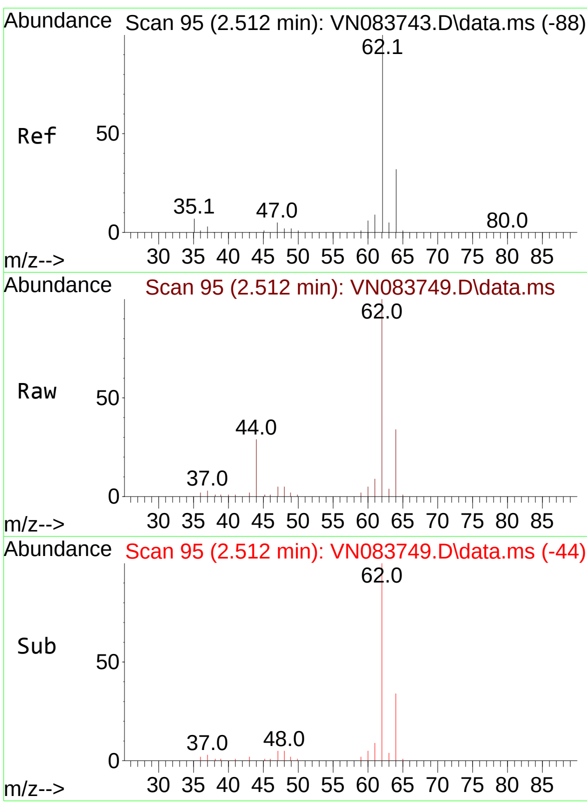


#3
Chloromethane
Concen: 22.207 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 50 Resp: 42184

Ion	Ratio	Lower	Upper
50	100		
52	31.1	27.2	40.8

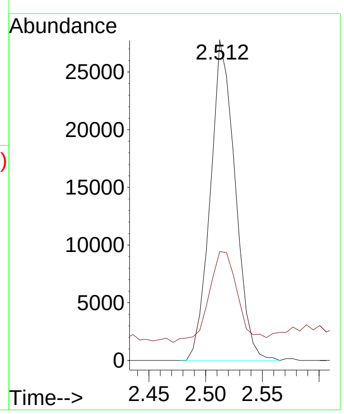


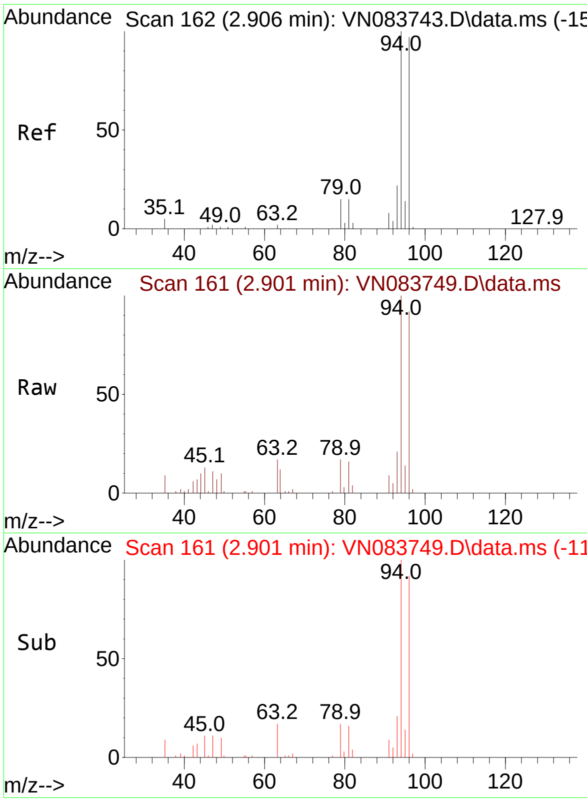


#4
Vinyl Chloride
Concen: 21.741 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 62 Resp: 42371

Ion	Ratio	Lower	Upper
62	100		
64	27.2	24.7	37.1





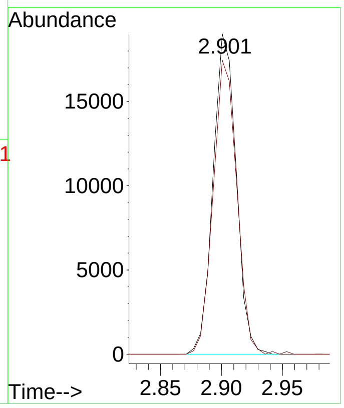
#5
Bromomethane
Concen: 22.449 ug/l
RT: 2.901 min Scan# 161
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

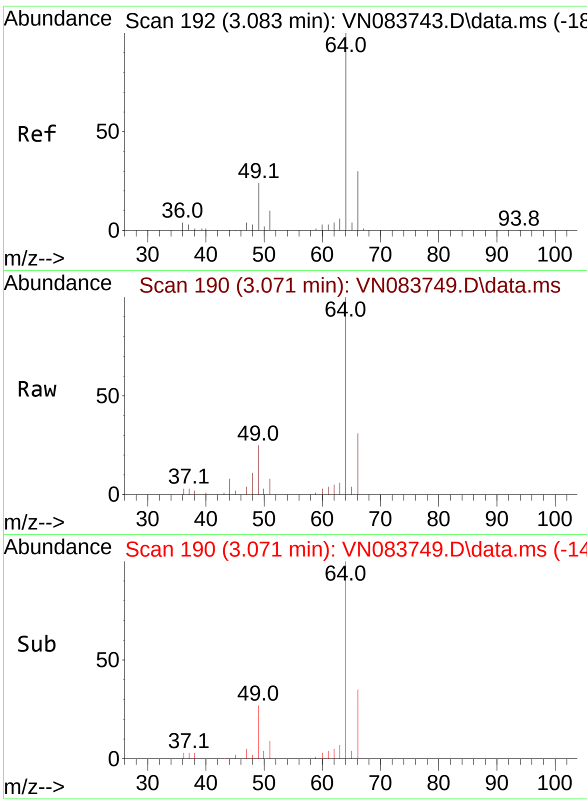
Tgt Ion: 94 Resp: 25120

Ion	Ratio	Lower	Upper
94	100		
96	91.9	76.0	114.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

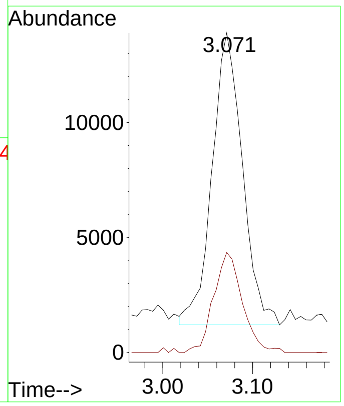


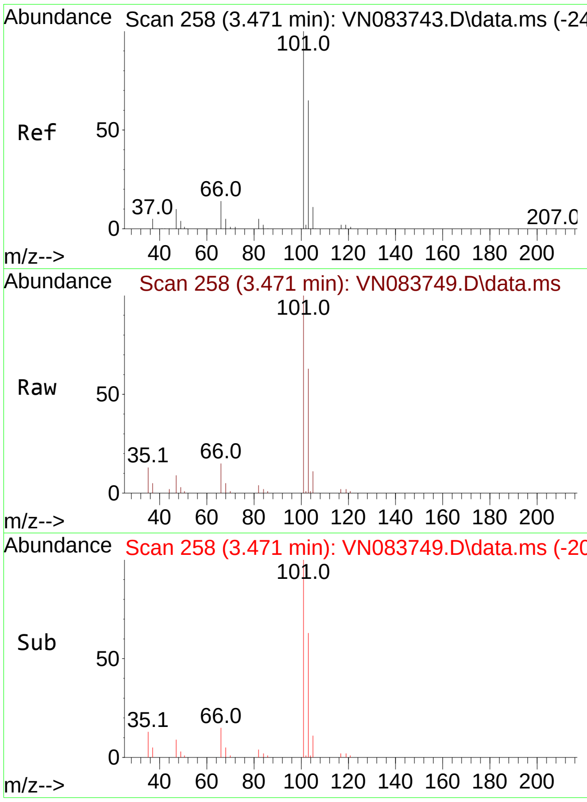


#6
Chloroethane
Concen: 22.035 ug/l
RT: 3.071 min Scan# 190
Delta R.T. -0.012 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 64 Resp: 29793

Ion	Ratio	Lower	Upper
64	100		
66	34.3	23.9	35.9





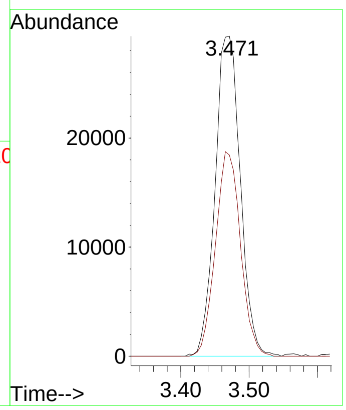
#7
Trichlorofluoromethane
Concen: 22.849 ug/l
RT: 3.471 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

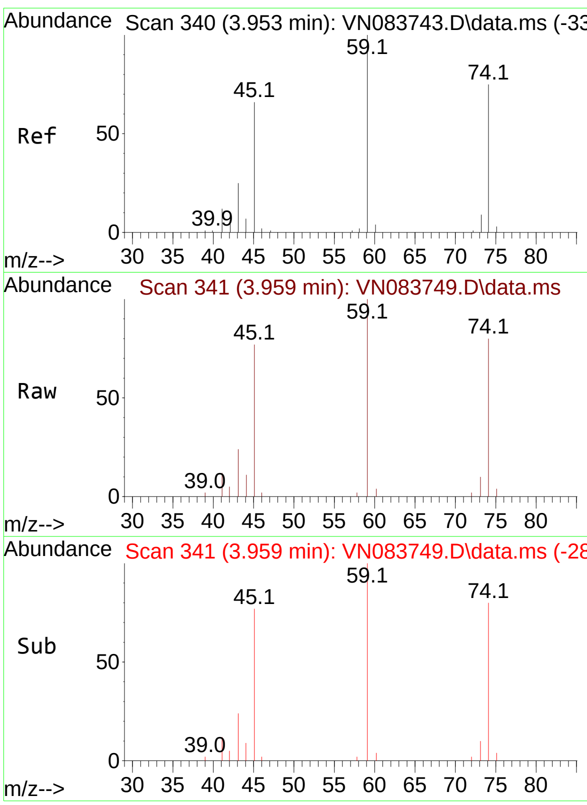
Tgt Ion:101 Resp: 7558

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.4	77.0

Instrument : MSVOA_N
ClientSampleId : VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

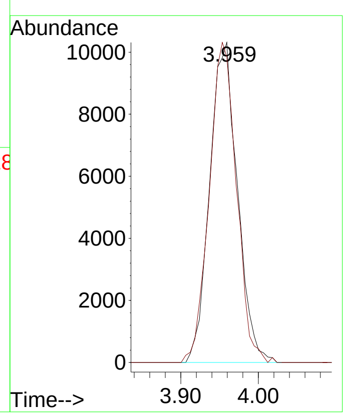


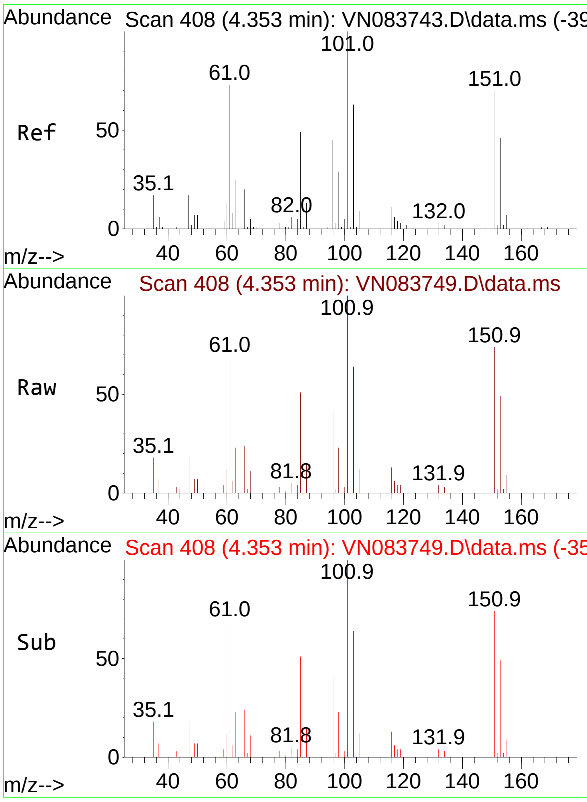


#8
Diethyl Ether
Concen: 23.131 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 74 Resp: 25651

Ion	Ratio	Lower	Upper
74	100		
45	97.8	46.7	140.1

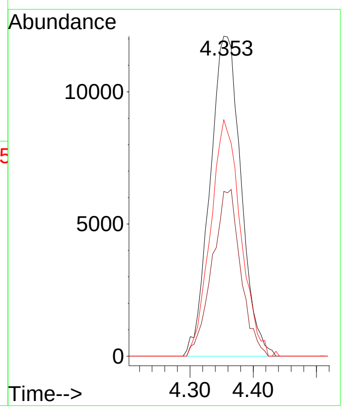




#9
1,1,2-Trichlorotrifluoroethane
Concen: 23.477 ug/l
RT: 4.353 min Scan# 40
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:101 Resp: 4116

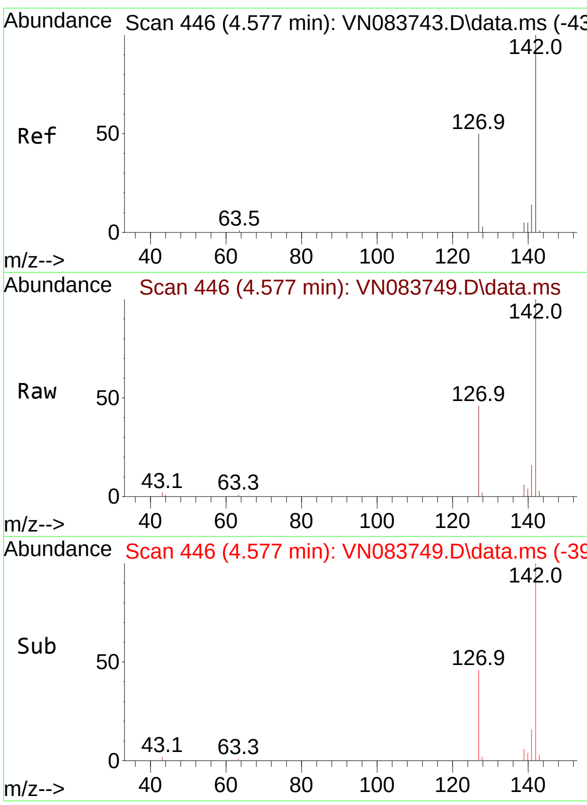
Ion	Ratio	Lower	Upper
101	100		
85	48.3	36.2	54.4
151	71.8	57.7	86.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

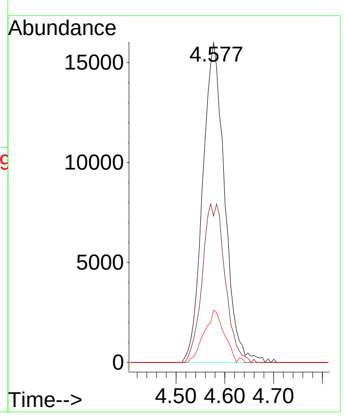
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#10
Methyl Iodide
Concen: 22.511 ug/l
RT: 4.577 min Scan# 446
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:142 Resp: 50200

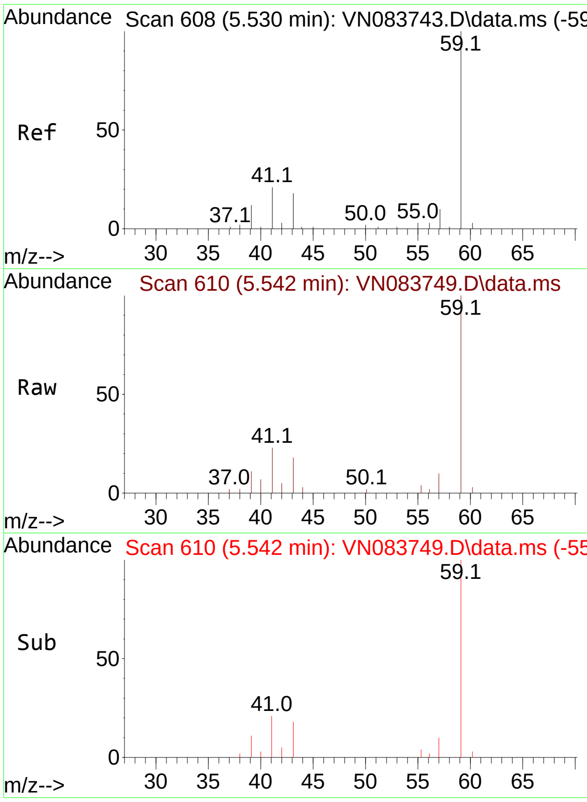
Ion	Ratio	Lower	Upper
142	100		
127	45.8	37.5	56.3
141	16.4	11.0	16.4



Instrument : MSVOA_N
ClientSampleId : VSTDICC020

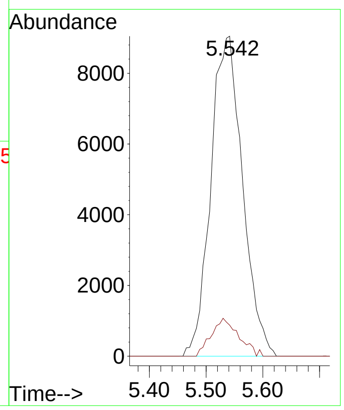
Manual Integrations APPROVED

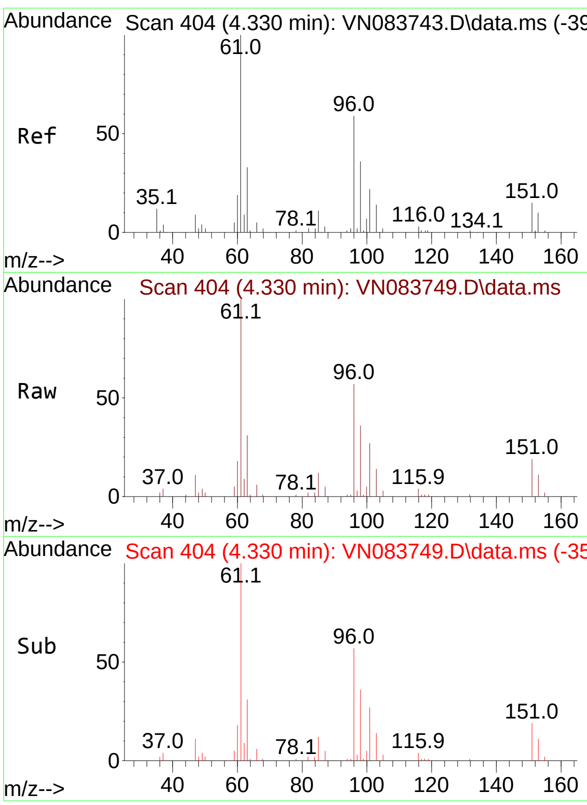
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024




```
#11
Tert butyl alcohol
Concen:  113.923 ug/l
RT:    5.542 min  Scan# 61
Delta R.T.  0.012 min
Lab File:   VN083749.D
Acq: 10 Sep 2024  12:43

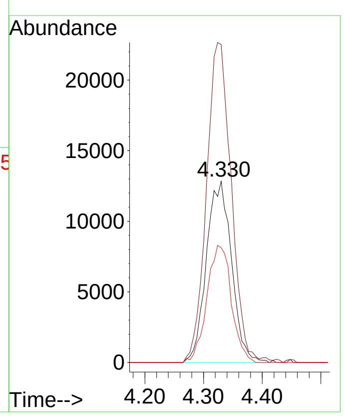
Tgt Ion: 59 Resp:   35218
Ion  Ratio  Lower  Upper
 59  100
 57   10.3    8.7   13.1
```






```
#12
1,1-Dichloroethene
Concen:   23.162 ug/l
RT:    4.330 min  Scan# 404
Delta R.T.  0.000 min
Lab File:   VN083749.D
Acq: 10 Sep 2024  12:43

Tgt Ion: 96 Resp:   38356
Ion  Ratio  Lower  Upper
 96  100
 61  175.6  143.4  215.0
 98   63.4   52.7   79.1
```

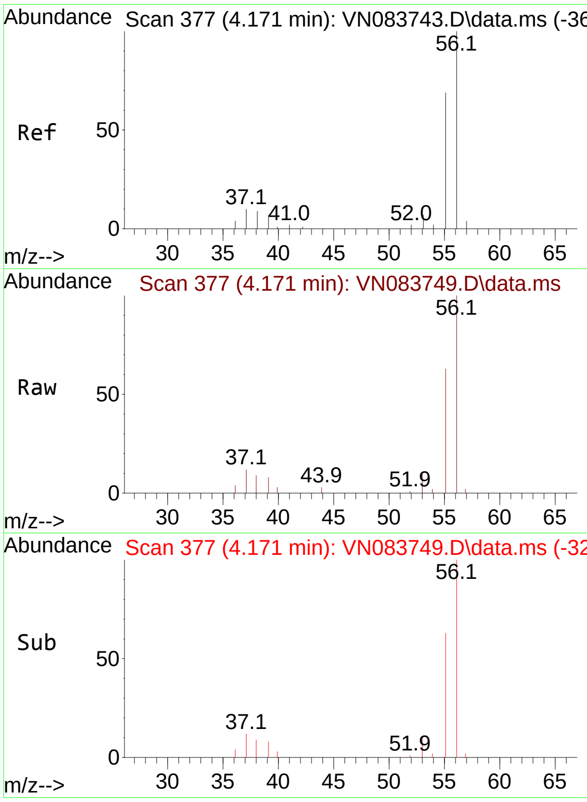


Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

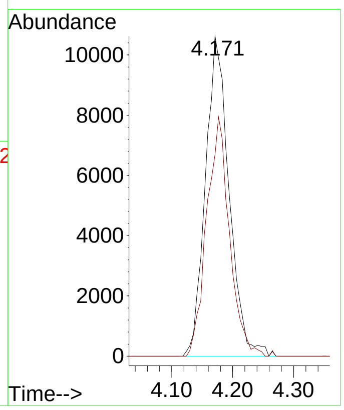
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

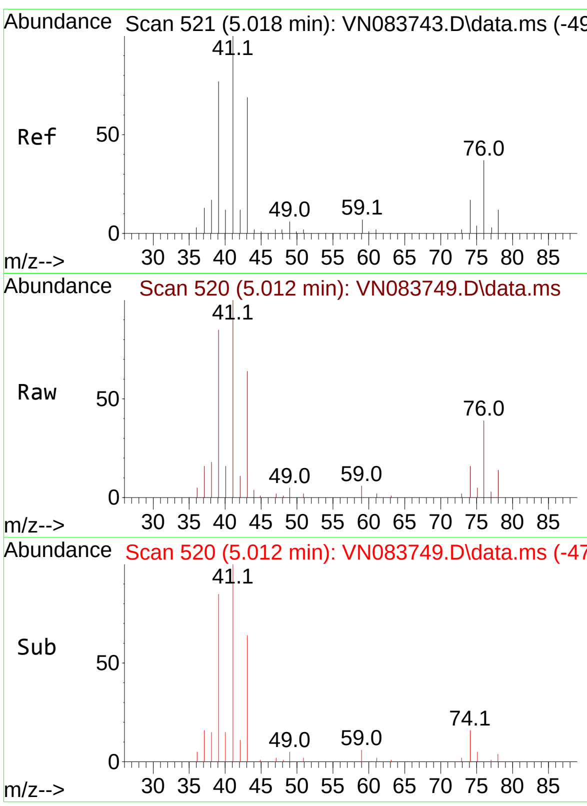


#13
Acrolein
Concen: 94.116 ug/l
RT: 4.171 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 56 Resp: 2870

Ion	Ratio	Lower	Upper
56	100		
55	72.0	58.2	87.2

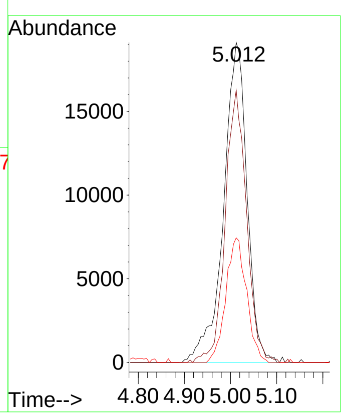




#14
Allyl chloride
Concen: 22.985 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 41 Resp: 67821

Ion	Ratio	Lower	Upper
41	100		
39	77.1	59.3	88.9
76	34.4	27.7	41.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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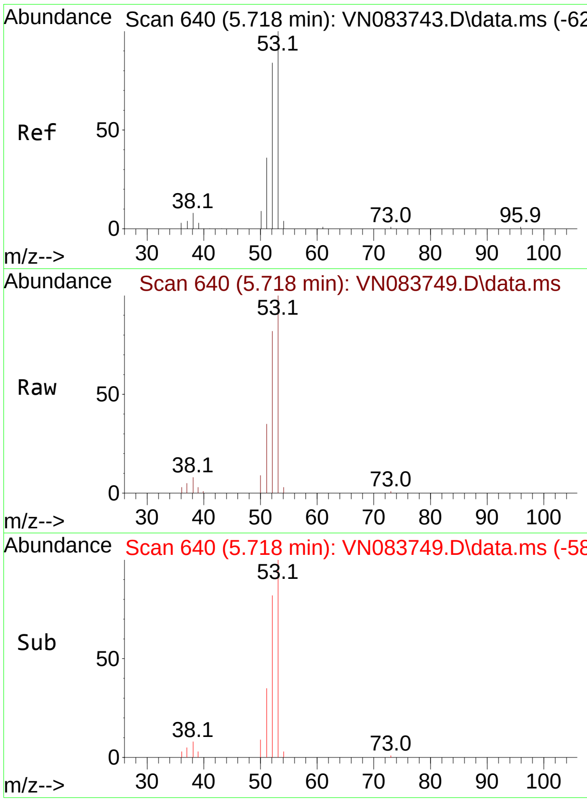
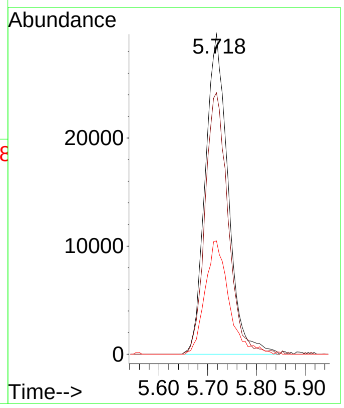
Supervised By :Semsettin Yesilyurt 09/11/2024

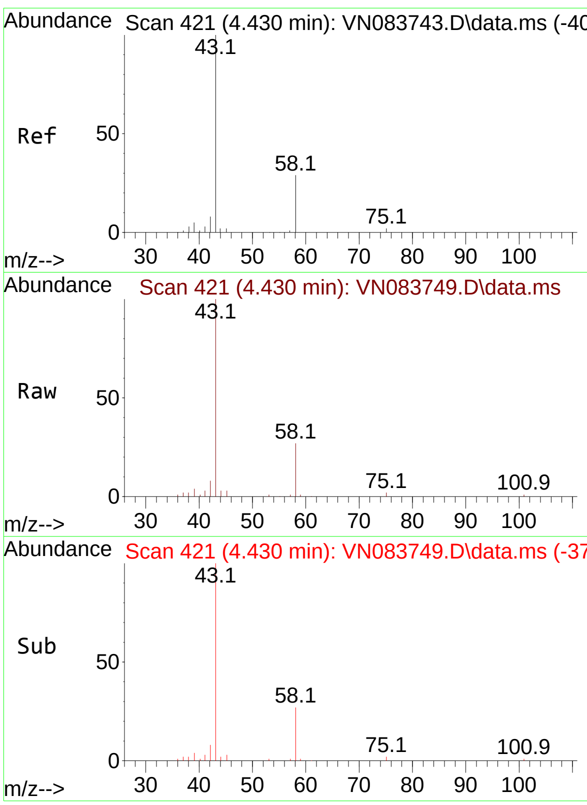


#15
Acrylonitrile
Concen: 114.975 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 53 Resp: 96660

Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.1	99.1
51	36.9	29.6	44.4

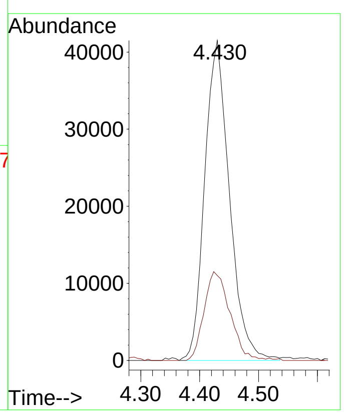




#16
Acetone
Concen: 131.110 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 43 Resp: 121335

Ion	Ratio	Lower	Upper
43	100		
58	26.5	23.7	35.5



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
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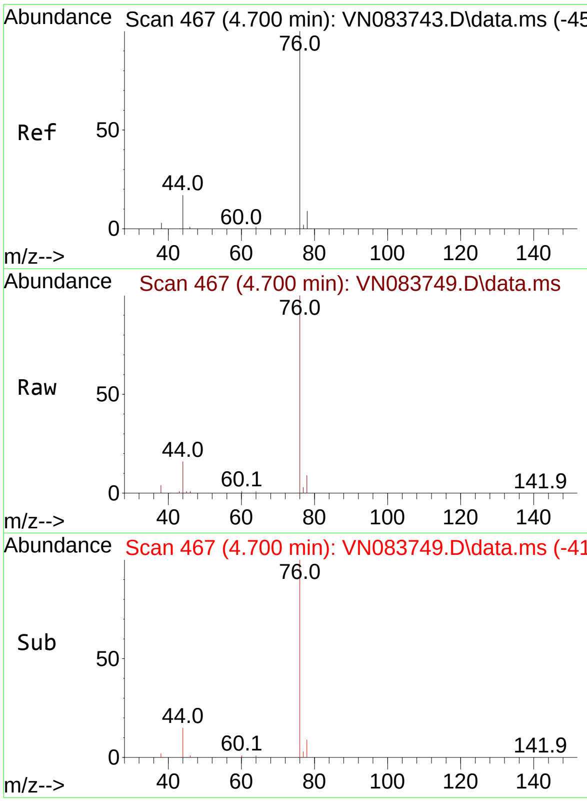
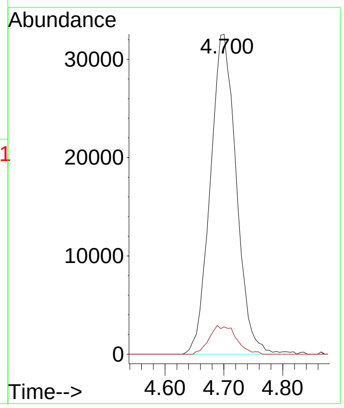
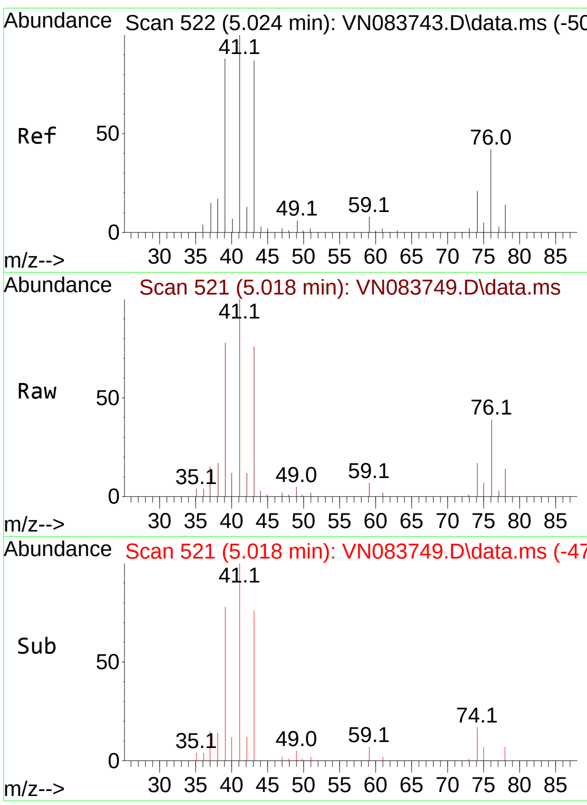


#17
Carbon Disulfide
Concen: 21.553 ug/l
RT: 4.700 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 76 Resp: 99836

Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.1	10.7

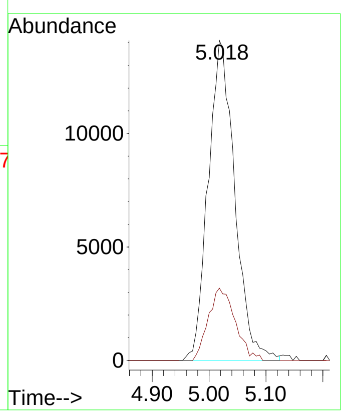




#18
Methyl Acetate
Concen: 22.733 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 43 Resp: 45786

Ion	Ratio	Lower	Upper
43	100		
74	22.9	19.0	28.4



Instrument : MSVOA_N
ClientSampleId : VSTDICC020

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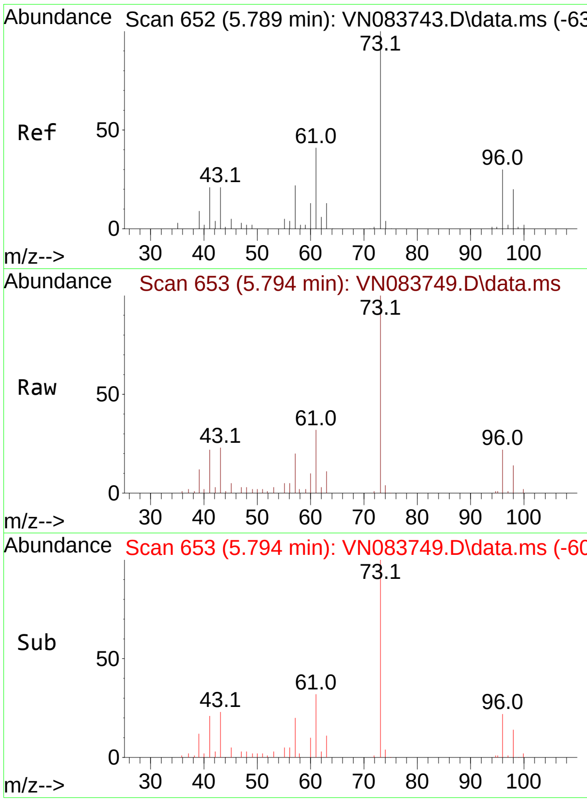
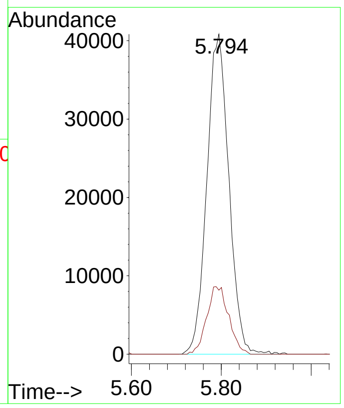
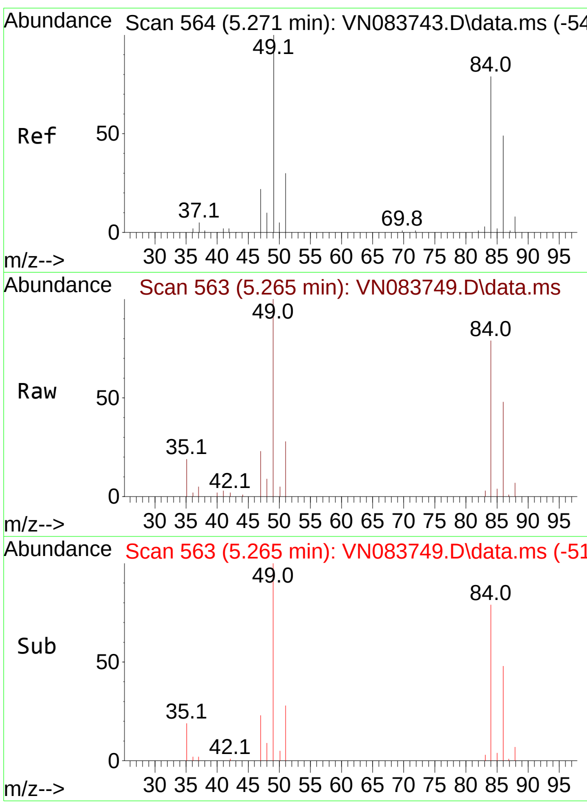



```
#19
Methyl tert-butyl Ether
Concen:   23.217 ug/l
RT:   5.794 min   Scan# 6
Delta R.T.   0.006 min
Lab File:    VN083749.D
Acq: 10 Sep 2024   12:43

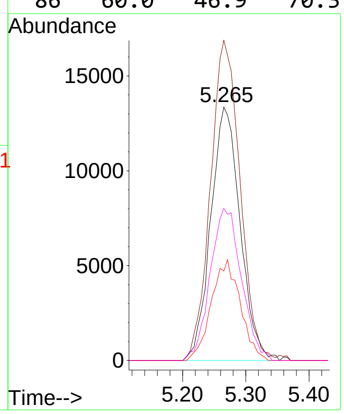
Tgt Ion: 73 Resp:   13912
Ion   Ratio   Lower   Upper
 73   100
 57    20.0    17.0    25.6
```






```
#20
Methylene Chloride
Concen:   22.740 ug/l
RT:   5.265 min   Scan# 563
Delta R.T.   -0.006 min
Lab File:    VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion: 84 Resp:    43066
Ion   Ratio   Lower   Upper
 84   100
 49   126.3    93.4   140.0
 51    35.3    29.2    43.8
 86    60.0    46.9    70.3
```



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
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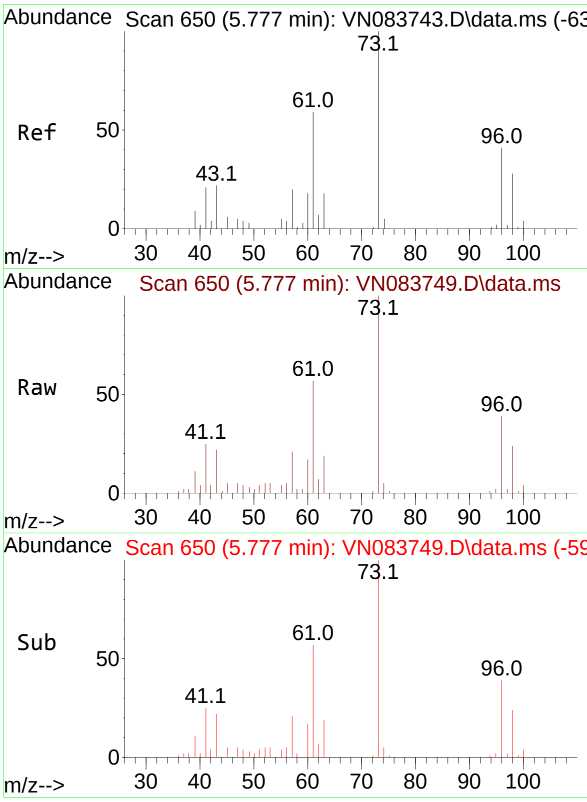
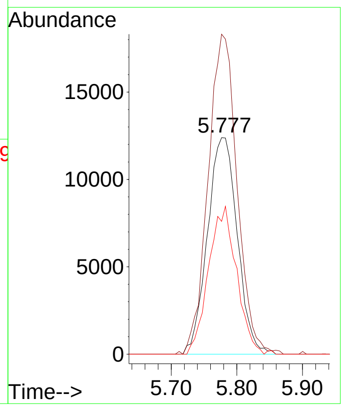
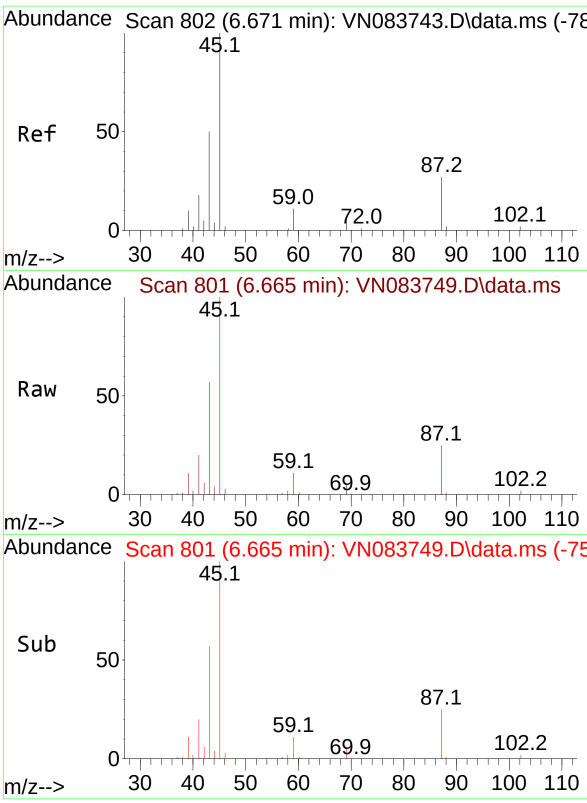


#21
trans-1,2-Dichloroethene
Concen: 22.099 ug/l
RT: 5.777 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 96 Resp: 39218

Ion	Ratio	Lower	Upper
96	100		
61	146.5	106.0	159.0
98	61.3	52.2	78.2

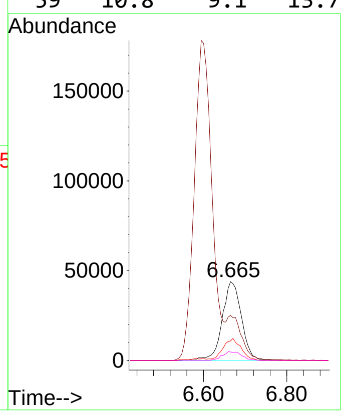


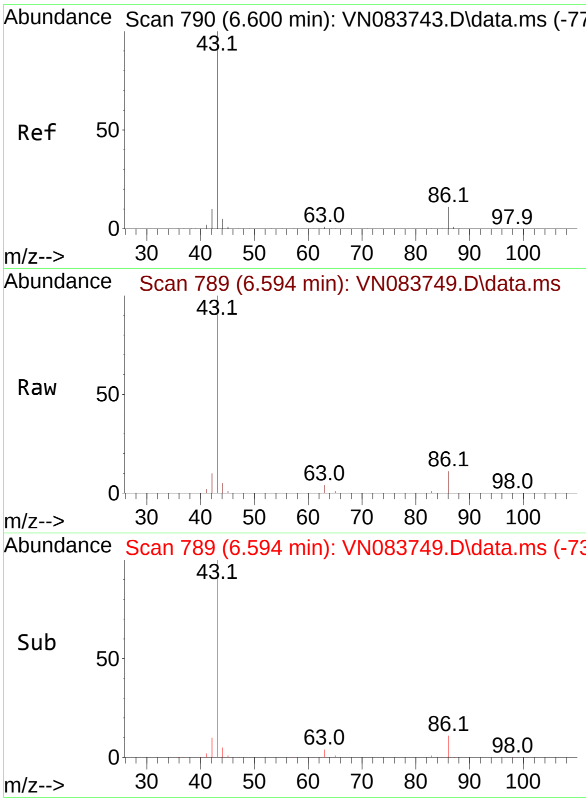


#22
Diisopropyl ether
Concen: 23.239 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 45 Resp: 141158

Ion	Ratio	Lower	Upper
45	100		
43	56.0	43.4	65.0
87	24.8	22.6	33.8
59	10.8	9.1	13.7





#23
Vinyl Acetate
Concen: 118.904 ug/l
RT: 6.594 min Scan# 78
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 43 Resp: 52890

Ion	Ratio	Lower	Upper
43	100		
86	10.6	8.7	13.1

Instrument : MSVOA_N
ClientSampleId : VSTDICC020

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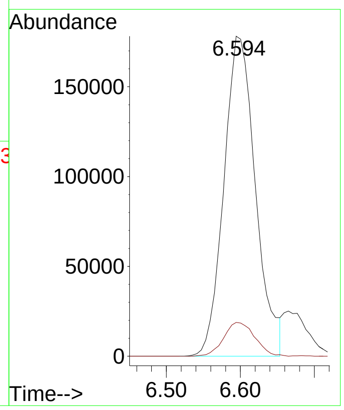
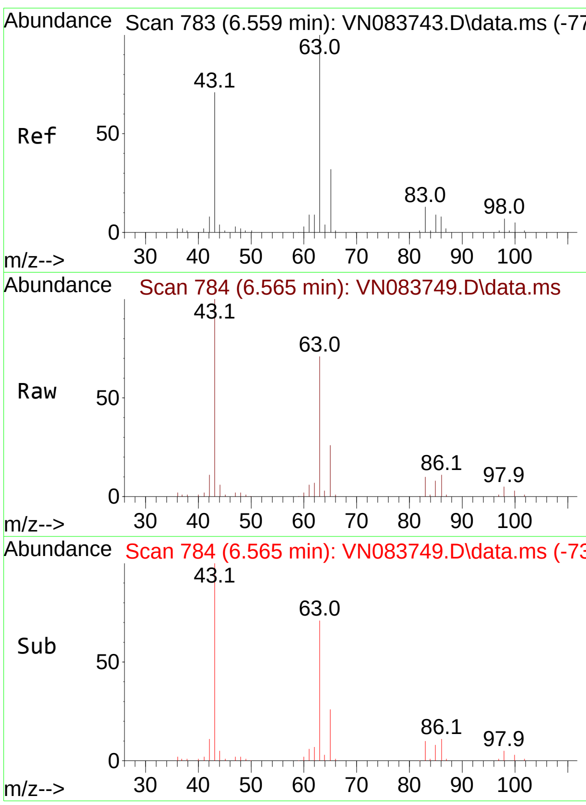
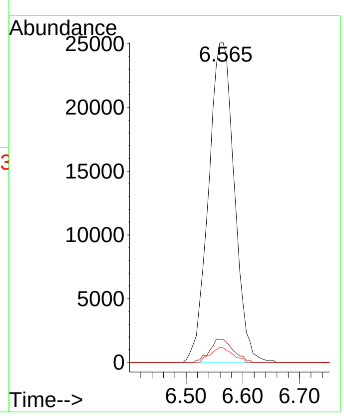




#24
1,1-Dichloroethane
Concen: 22.664 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 63 Resp: 79312

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.5	10.4
100	4.6	2.5	7.5



Instrument : MSVOA_N
ClientSampleId : VSTDICC020

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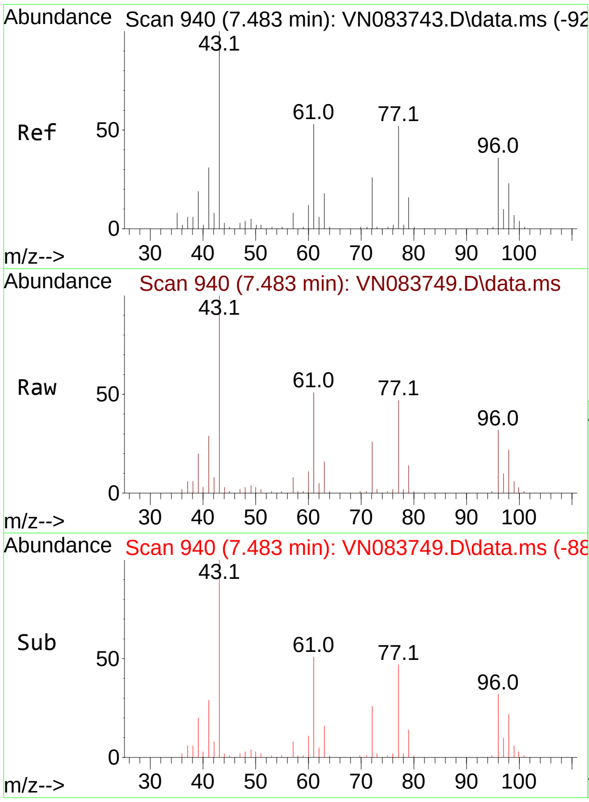
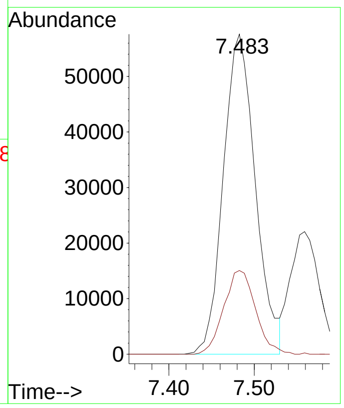
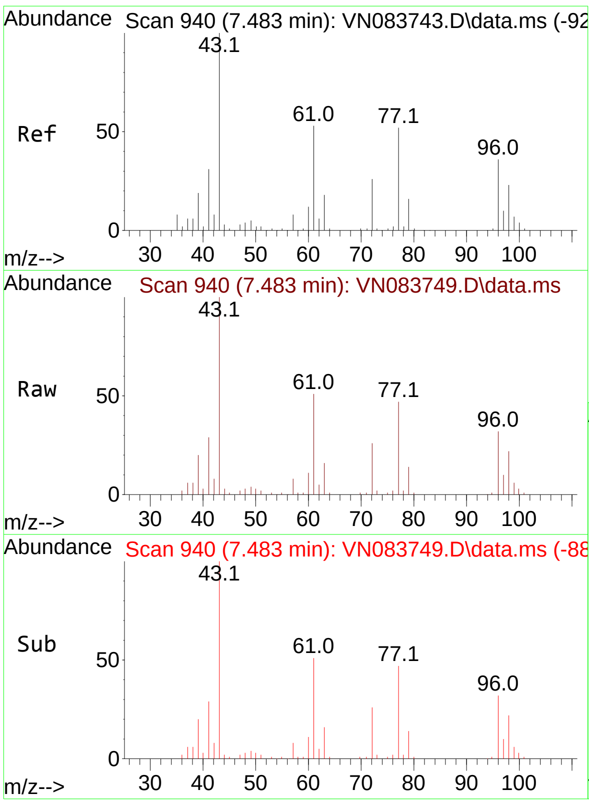


#25
2-Butanone
Concen: 123.710 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 43 Resp: 150475

Ion	Ratio	Lower	Upper
43	100		
72	26.2	20.8	31.2

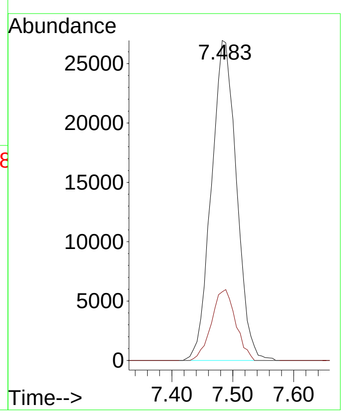




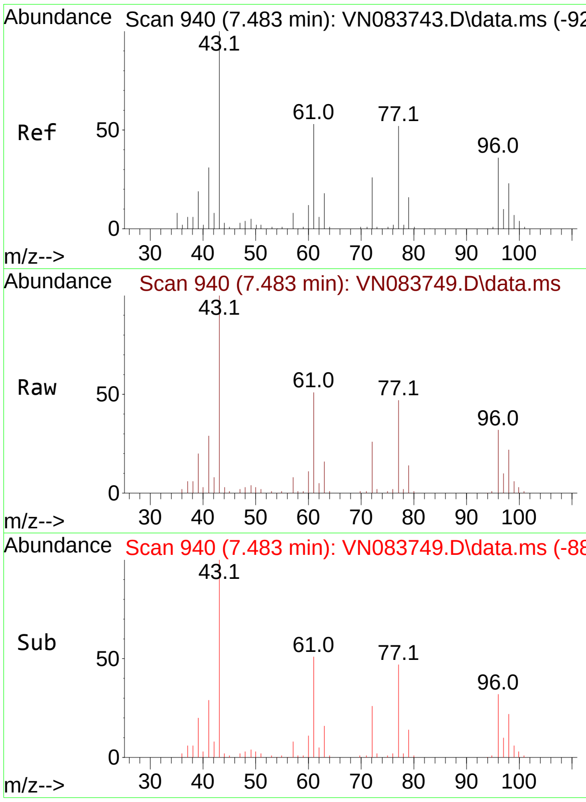
#26
2,2-Dichloropropane
Concen: 23.990 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 77 Resp: 77312

Ion	Ratio	Lower	Upper
77	100		
97	21.3	10.2	30.4



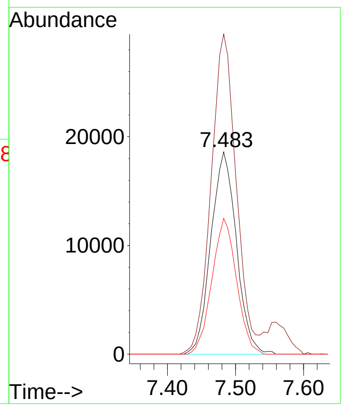
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#27
cis-1,2-Dichloroethene
Concen: 23.096 ug/l
RT: 7.483 min   Scan# 94
Delta R.T.   0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion: 96 Resp: 4865

Ion	Ratio	Lower	Upper
96	100		
61	156.3	0.0	306.2
98	64.8	0.0	128.6



Instrument :
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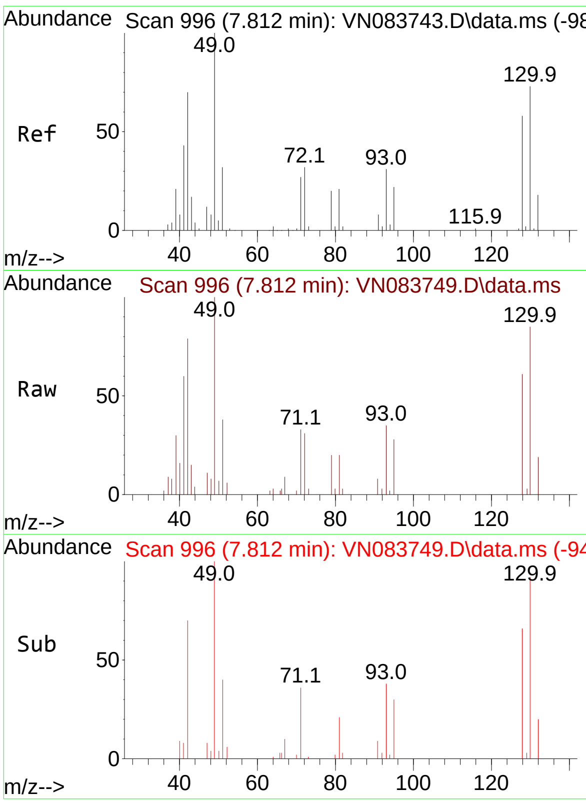
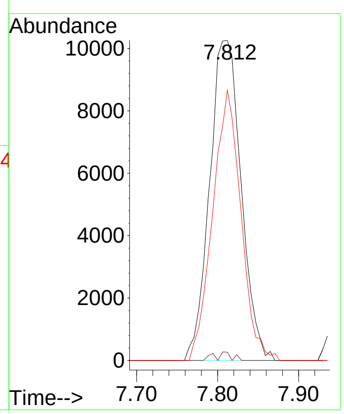
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#28
Bromochloromethane
Concen: 18.851 ug/l
RT: 7.812 min   Scan# 996
Delta R.T.   0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion: 49 Resp: 27780

Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.4
130	75.7	60.2	90.2



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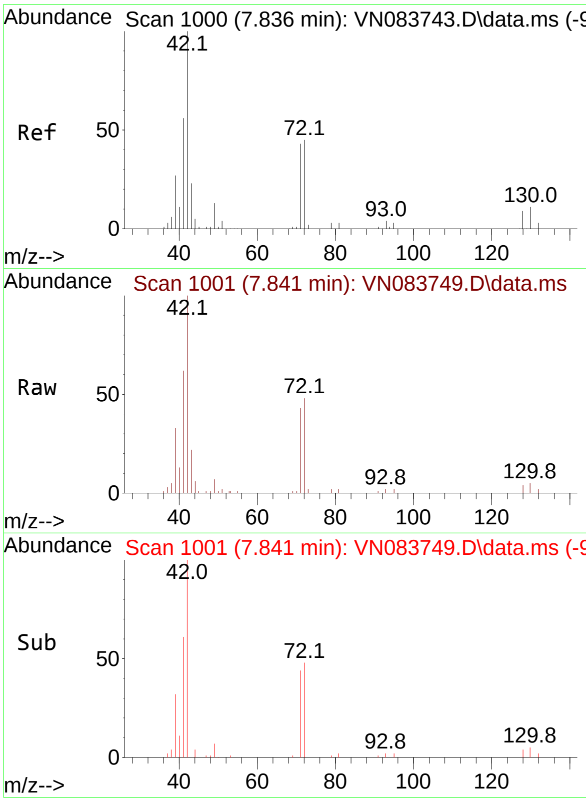
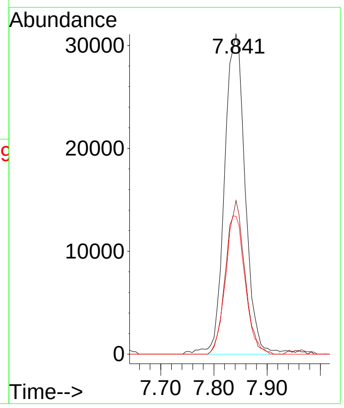
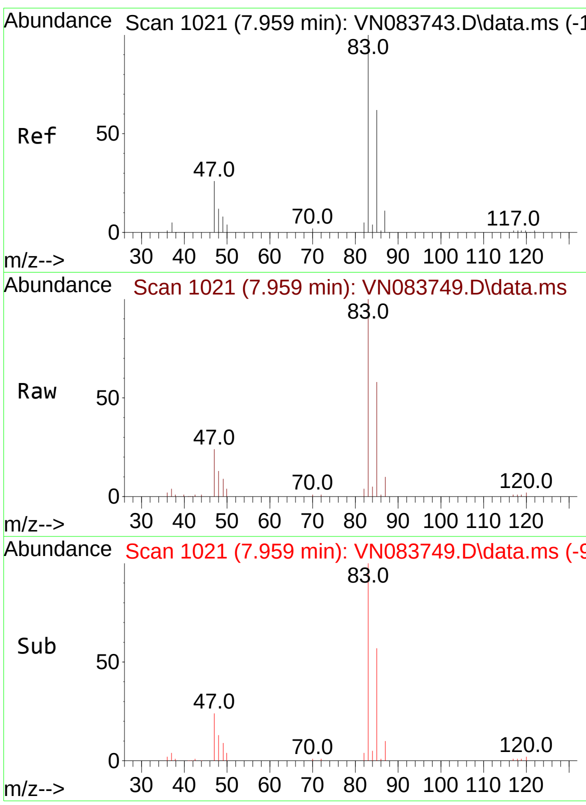


#29
Tetrahydrofuran
Concen: 116.606 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 42 Resp: 8386

Ion	Ratio	Lower	Upper
42	100		
72	44.3	35.9	53.9
71	41.6	33.9	50.9

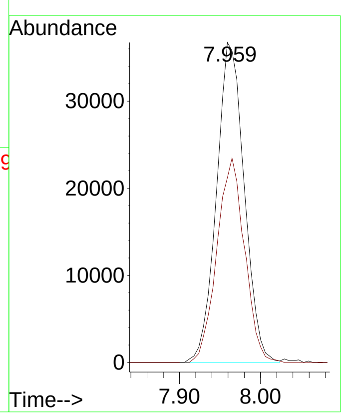




#30
Chloroform
Concen: 23.542 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 83 Resp: 87460

Ion	Ratio	Lower	Upper
83	100		
85	57.7	52.8	79.2



Instrument :
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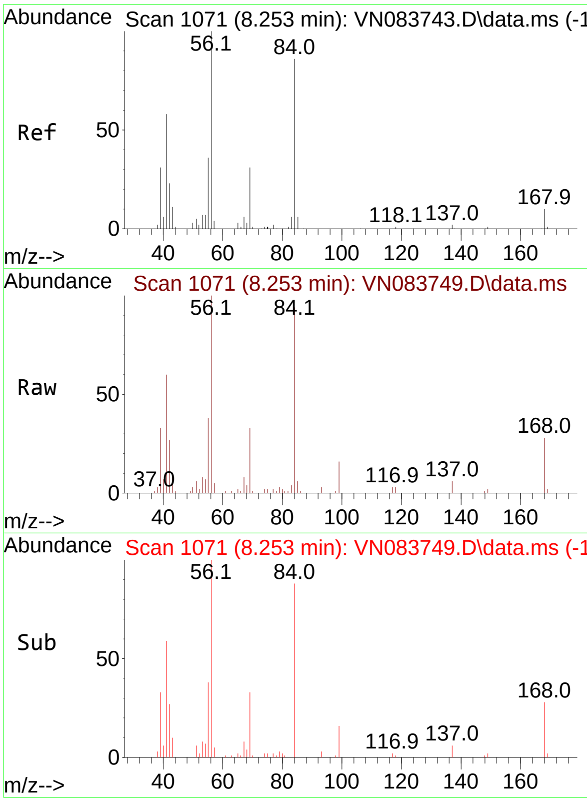
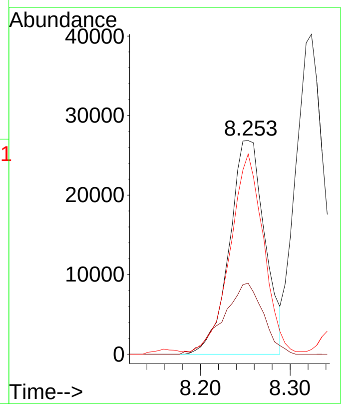
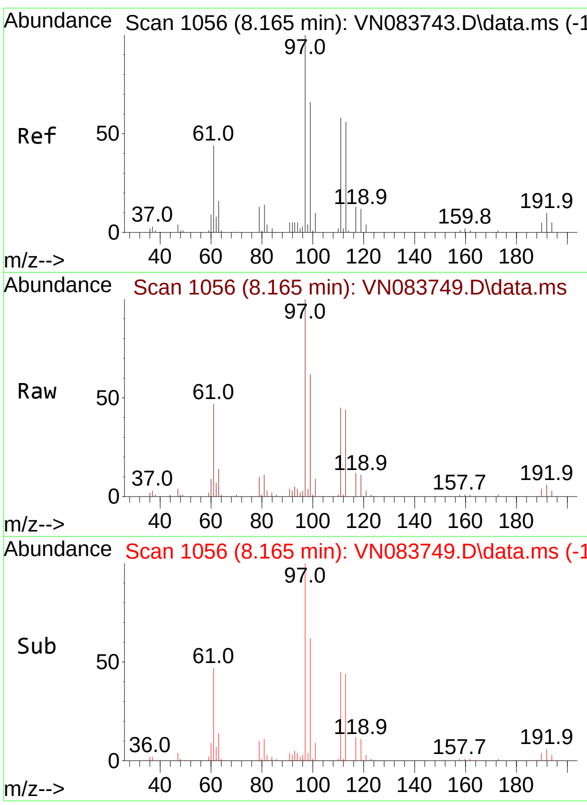


#31
Cyclohexane
Concen: 22.133 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 56 Resp: 7384

Ion	Ratio	Lower	Upper
56	100		
69	33.2	26.9	40.3
84	92.3	69.2	103.8

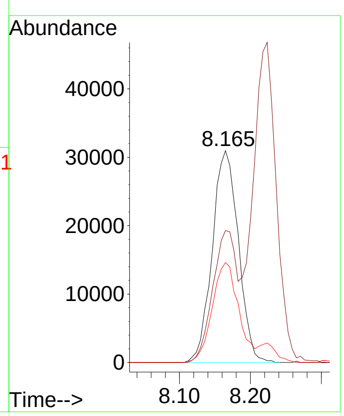




#32
1,1,1-Trichloroethane
Concen: 23.176 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 97 Resp: 79170

Ion	Ratio	Lower	Upper
97	100		
99	55.9	52.3	78.5
61	47.5	38.2	57.2



Instrument :
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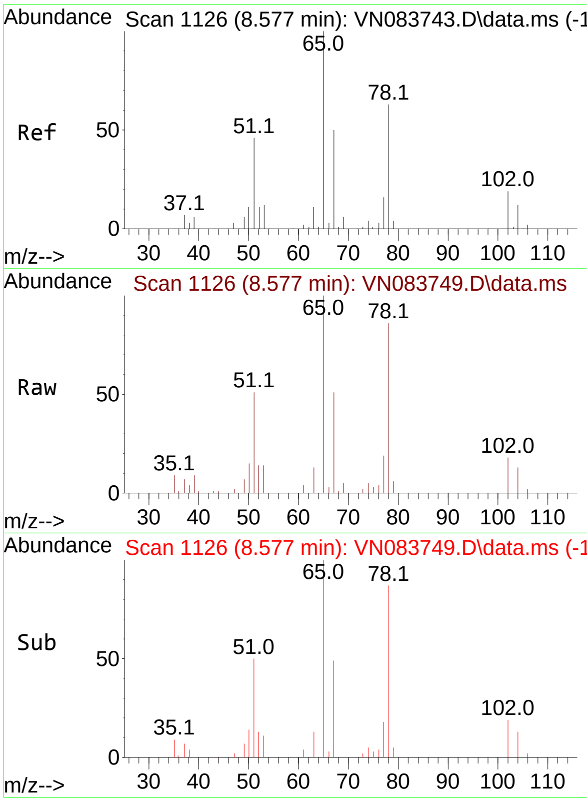
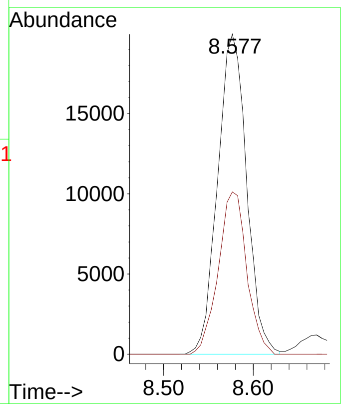
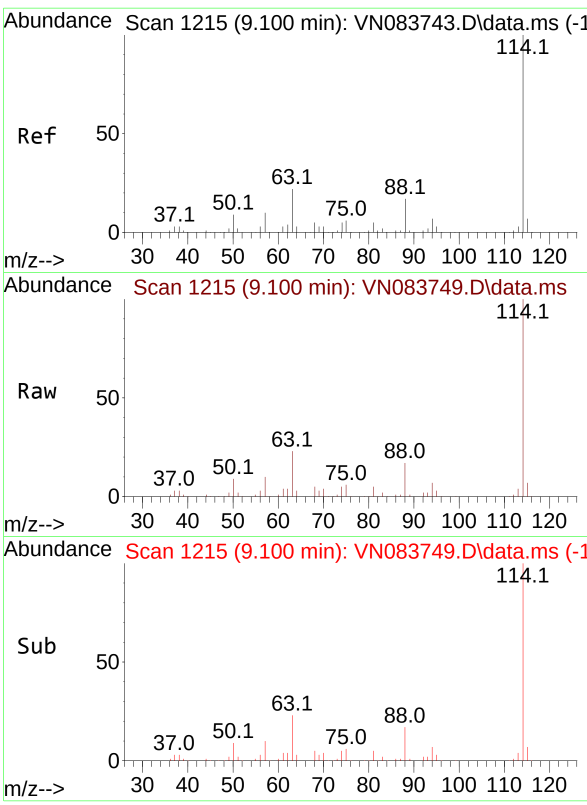



```
#33
1,2-Dichloroethane-d4
Concen:   19.406 ug/l
RT:    8.577 min   Scan# 11
Delta R.T.   0.000 min
Lab File:    VN083749.D
Acq: 10 Sep 2024  12:43

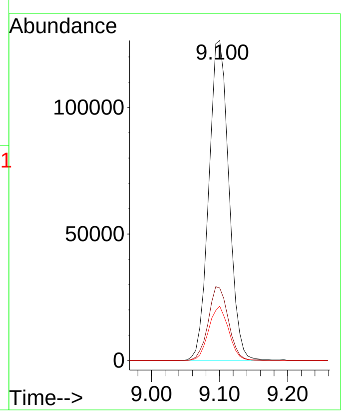
Tgt Ion: 65 Resp:    44799
Ion   Ratio   Lower   Upper
 65   100
 67    49.9     0.0   100.8
```






```
#34
1,4-Difluorobenzene
Concen:   50.000 ug/l
RT:    9.100 min   Scan# 1215
Delta R.T.   0.000 min
Lab File:    VN083749.D
Acq: 10 Sep 2024  12:43

Tgt Ion:114 Resp:   259980
Ion   Ratio   Lower   Upper
114   100
 63    22.7     0.0    43.4
 88    17.0     0.0    32.6
```



Instrument :
MSVOA_N
ClientSampleId :
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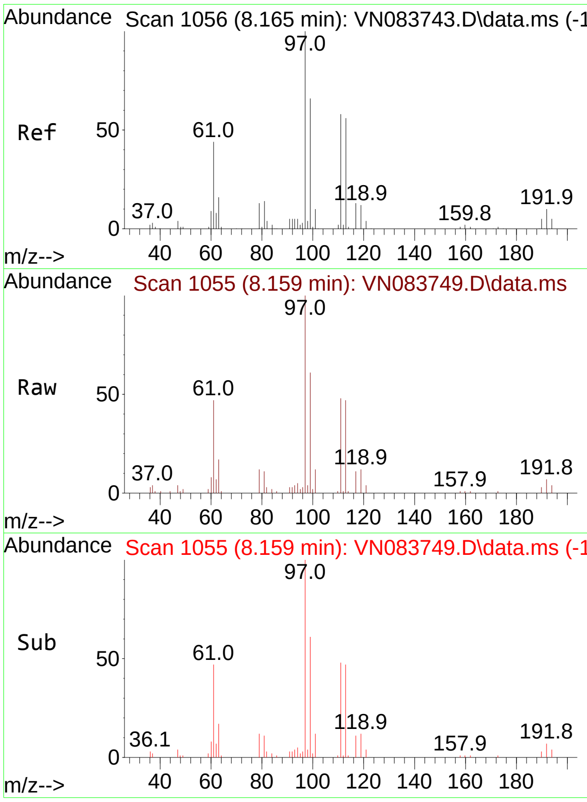
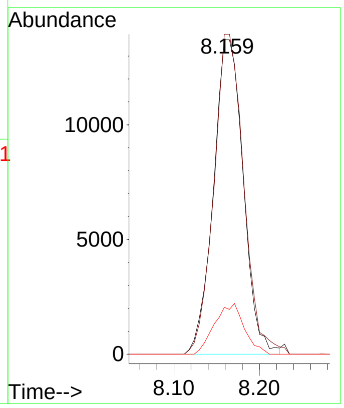
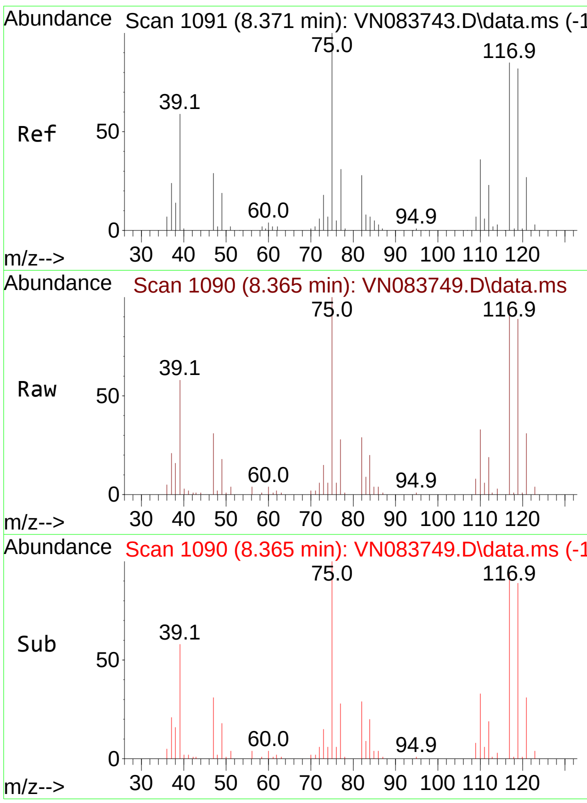


#35
Dibromofluoromethane
Concen: 20.034 ug/l
RT: 8.159 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:113 Resp: 3334

Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.6	124.0
192	16.0	14.3	21.5

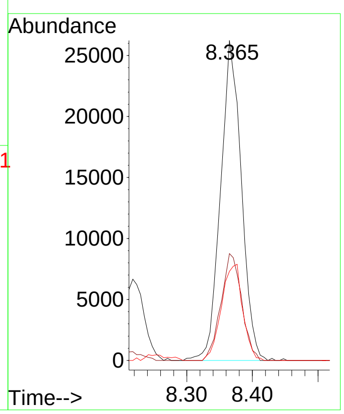


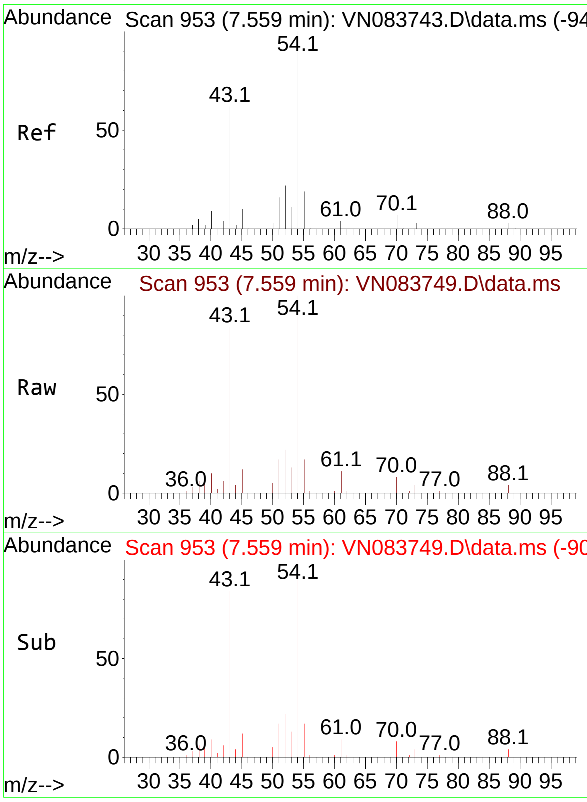


#36
1,1-Dichloropropene
Concen: 23.081 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 75 Resp: 57819

Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.7	50.1
77	30.7	25.2	37.8

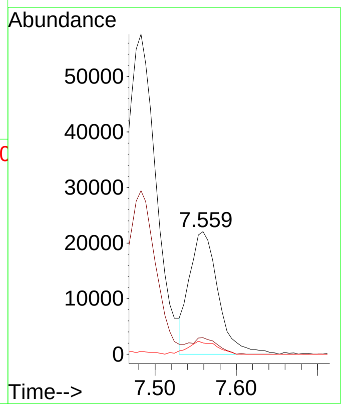




#37
Ethyl Acetate
Concen: 24.088 ug/l
RT: 7.559 min   Scan# 9
Delta R.T.   0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion: 43 Resp: 5477

Ion	Ratio	Lower	Upper
43	100		
61	12.2	11.1	16.7
70	10.4	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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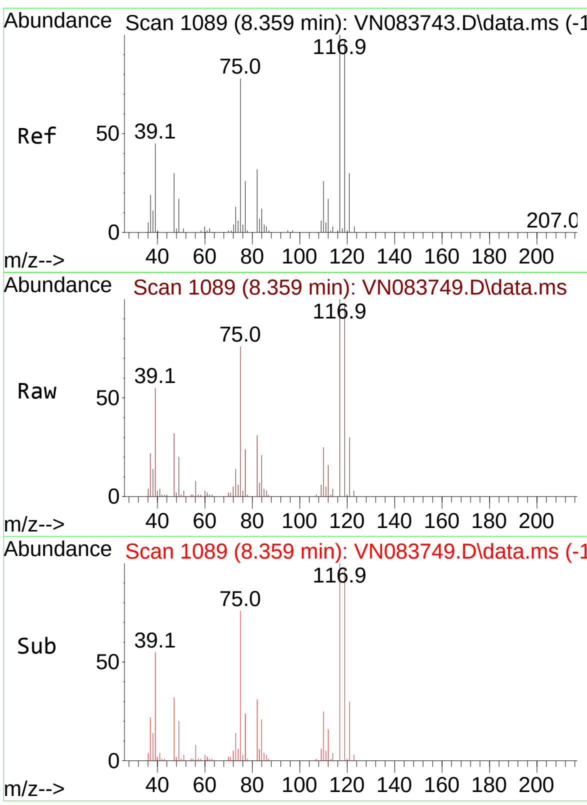
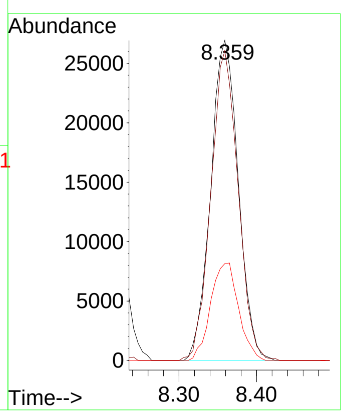
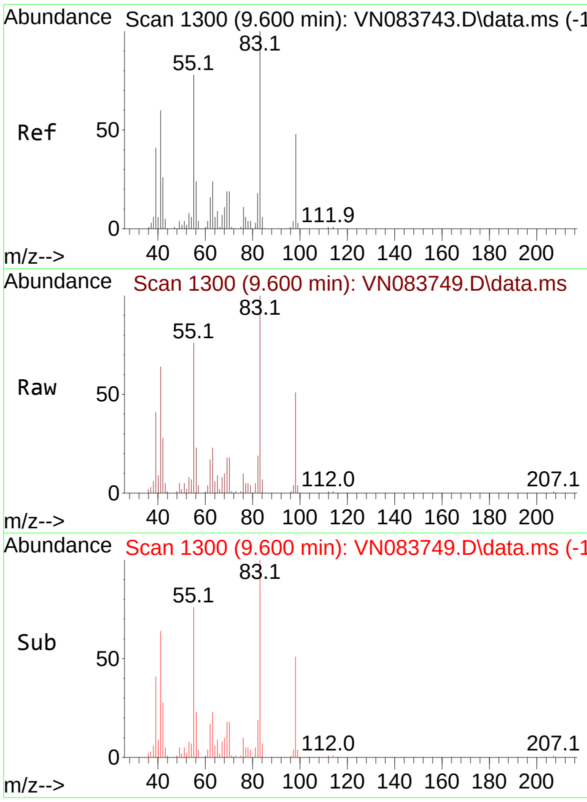


#38
Carbon Tetrachloride
Concen: 23.526 ug/l
RT: 8.359 min   Scan# 1089
Delta R.T.   0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion:117 Resp: 66860

Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.1	114.1
121	30.3	24.1	36.1





#39
Methylcyclohexane
Concen: 24.123 ug/l
RT: 9.600 min   Scan# 1
Delta R.T.   0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion: 83 Resp: 6878

Ion	Ratio	Lower	Upper
83	100		
55	75.7	62.2	93.4
98	50.6	37.6	56.4

Instrument :
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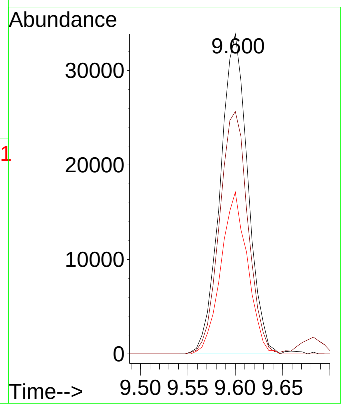

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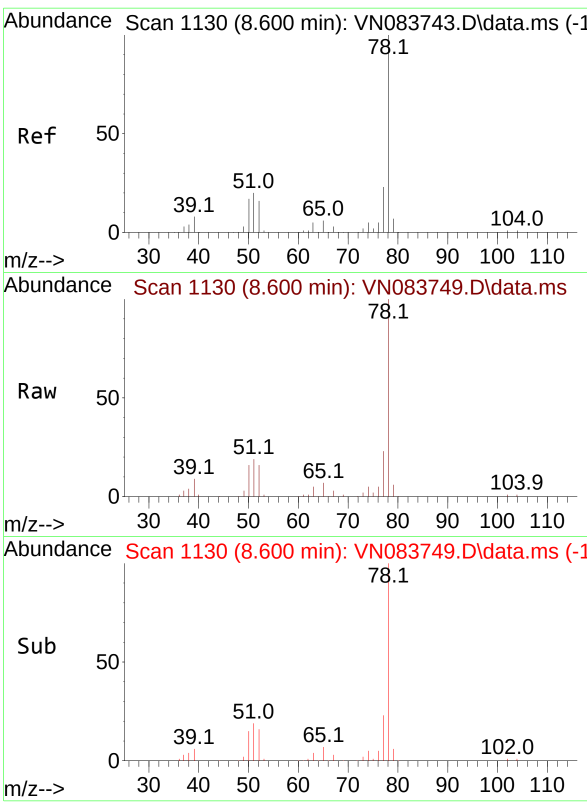
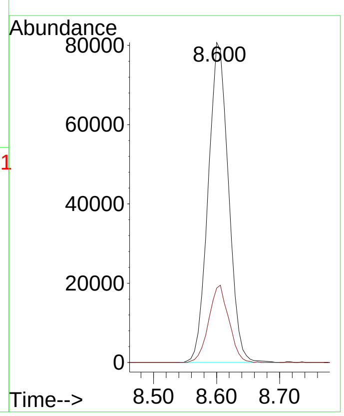
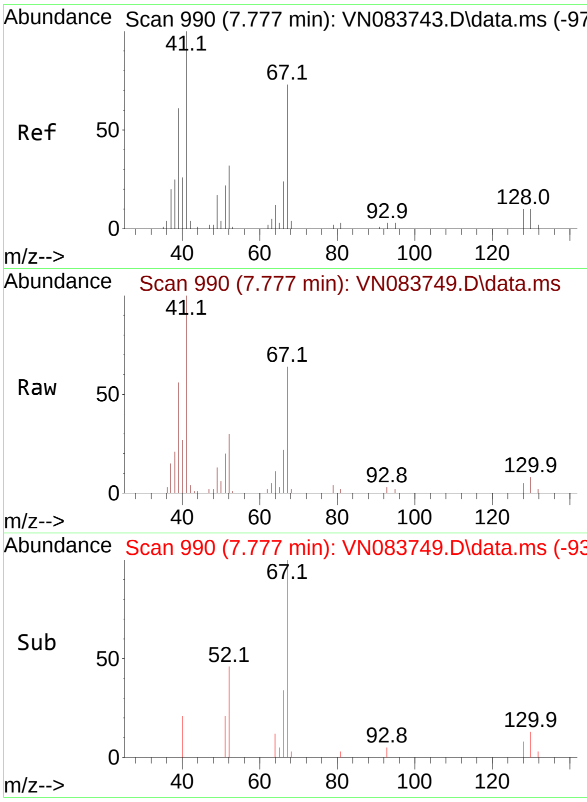


#40
Benzene
Concen: 23.997 ug/l
RT: 8.600 min   Scan# 1130
Delta R.T.   0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion: 78 Resp: 180938

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6

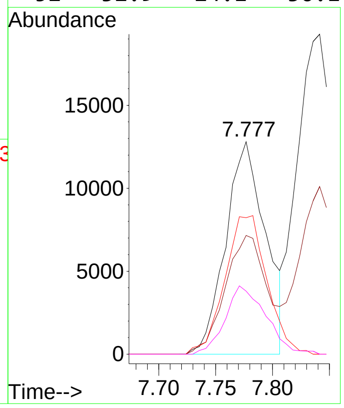




#41
Methacrylonitrile
Concen: 23.154 ug/l
RT: 7.777 min   Scan# 9
Delta R.T.   0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion: 41 Resp: 3114

Ion	Ratio	Lower	Upper
41	100		
39	58.8	45.4	68.2
67	69.1	55.9	83.9
52	32.9	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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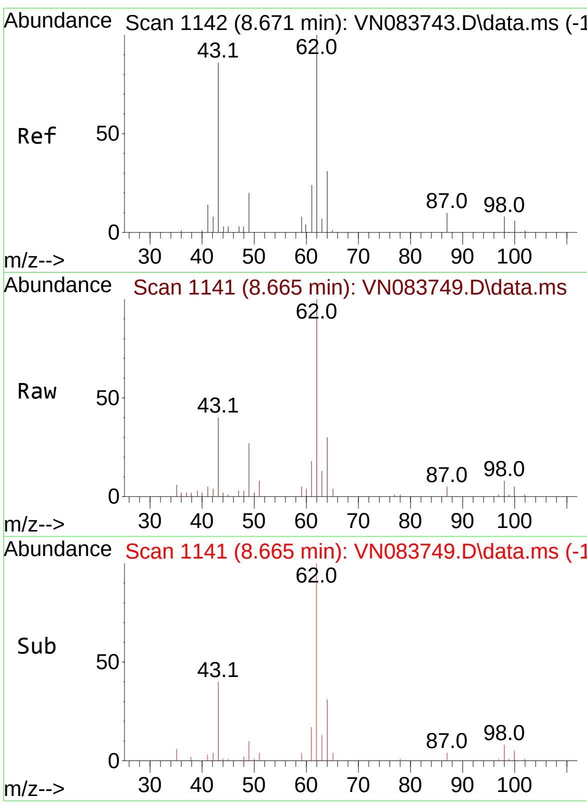
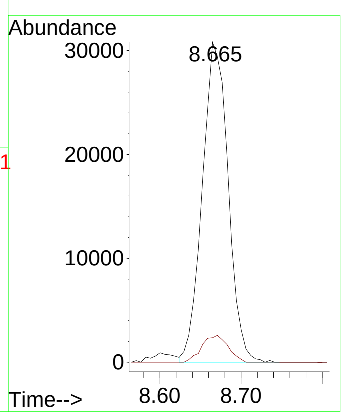
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

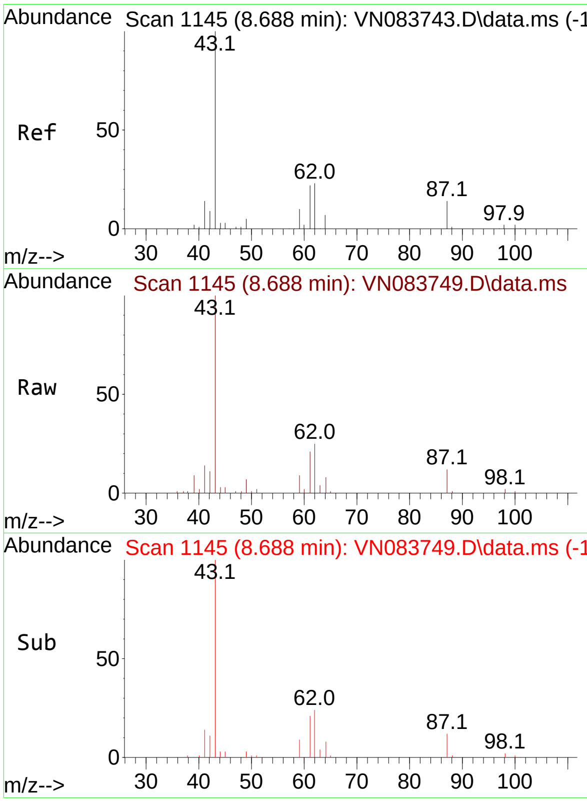


#42
1,2-Dichloroethane
Concen: 24.216 ug/l
RT: 8.665 min   Scan# 1141
Delta R.T.   -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion: 62 Resp: 68226

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	16.6





#43
Isopropyl Acetate
Concen: 23.775 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 43 Resp: 9796

Ion	Ratio	Lower	Upper
43	100		
61	25.3	19.4	29.0
87	12.6	9.8	14.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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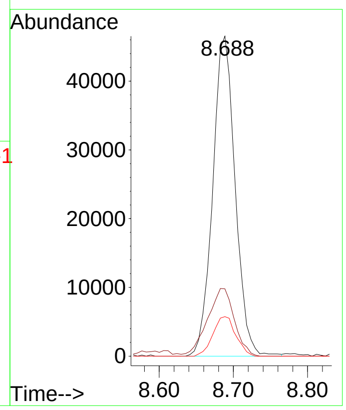
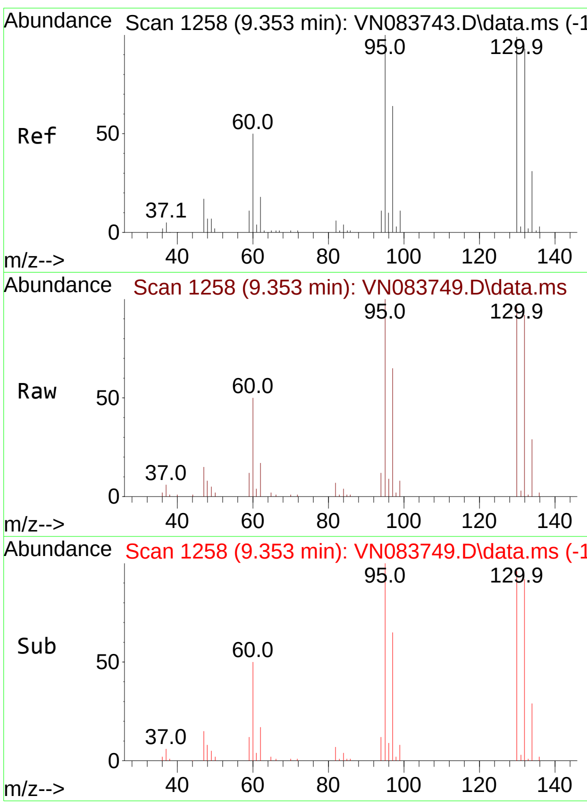
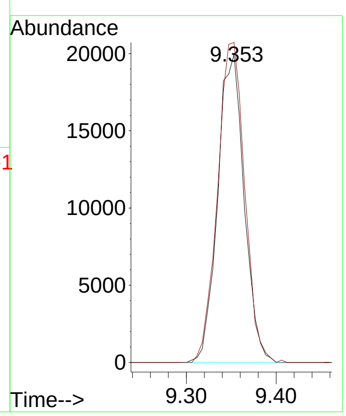




#44
Trichloroethene
Concen: 23.356 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:130 Resp: 40782

Ion	Ratio	Lower	Upper
130	100		
95	103.9	0.0	200.4



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument : MSVOA_N
ClientSampleId : VSTDICC020

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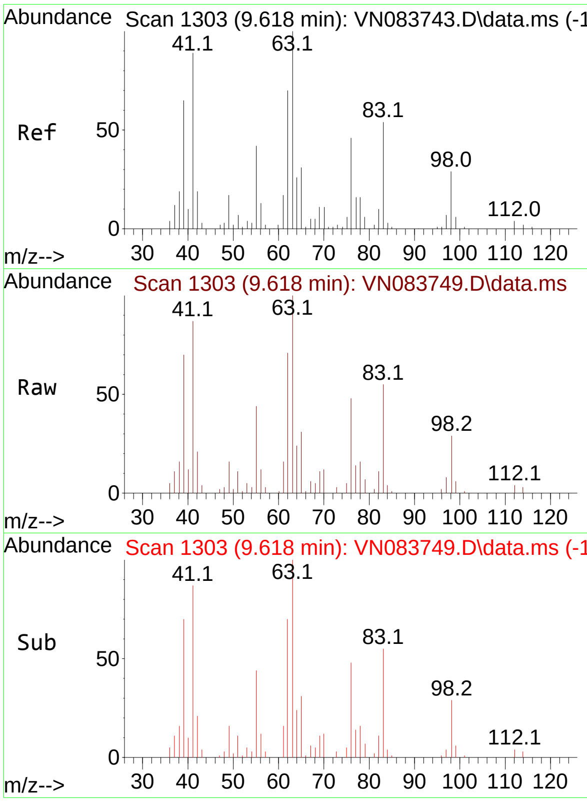
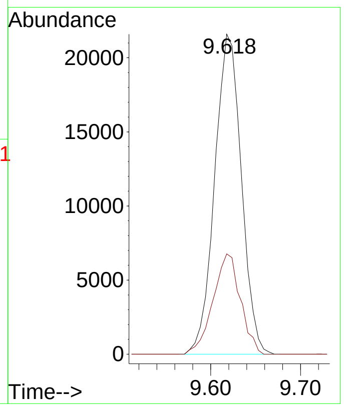
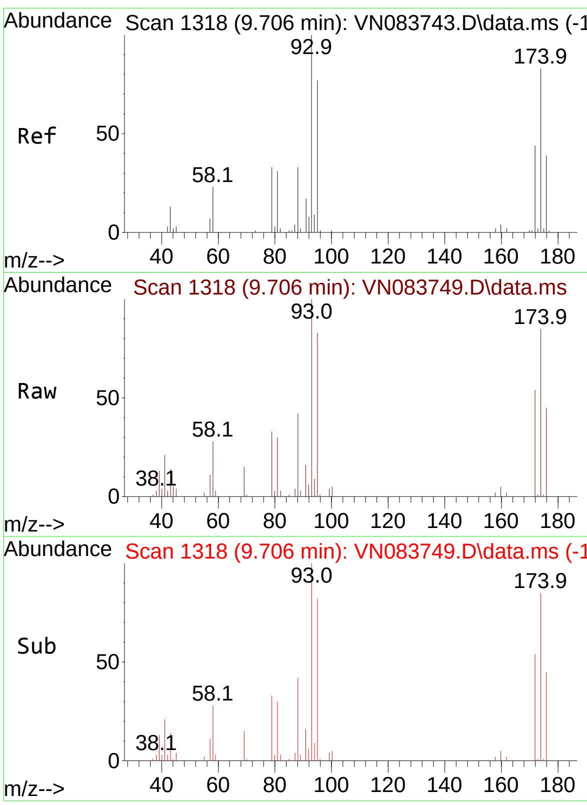



```
#45
1,2-Dichloropropane
Concen:   24.451 ug/l
RT:   9.618 min   Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083749.D
Acq: 10 Sep 2024   12:43

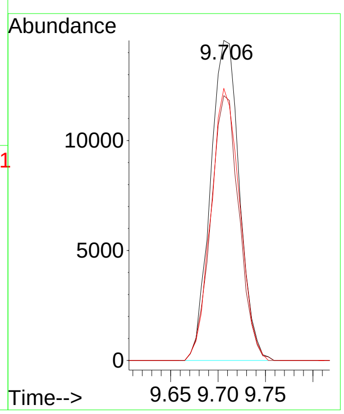
Tgt Ion: 63 Resp:   4456
Ion   Ratio   Lower   Upper
 63   100
 65    31.3    25.9    38.9
```






```
#46
Dibromomethane
Concen:   24.250 ug/l
RT:   9.706 min   Scan# 1318
Delta R.T.  0.000 min
Lab File:   VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion: 93 Resp:   30954
Ion   Ratio   Lower   Upper
 93   100
 95    81.0    65.3    97.9
174    84.2    71.0   106.4
```



Instrument :
MSVOA_N
ClientSampleId :
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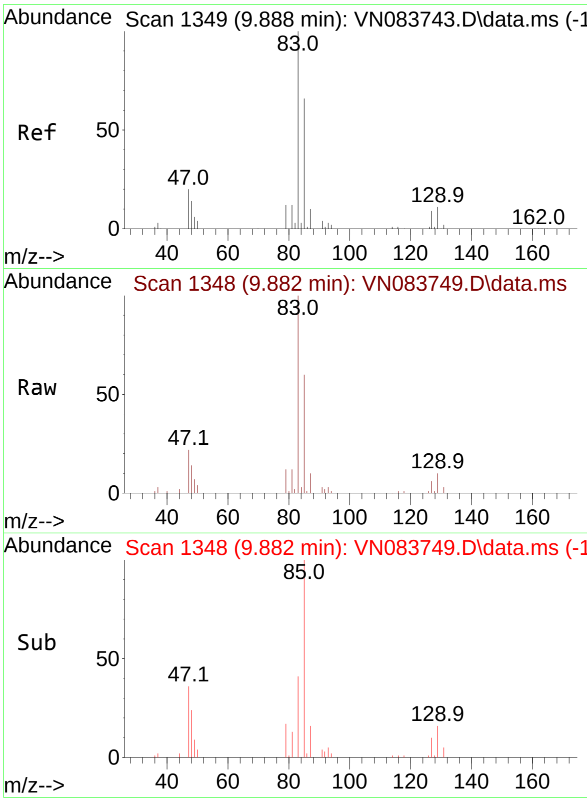
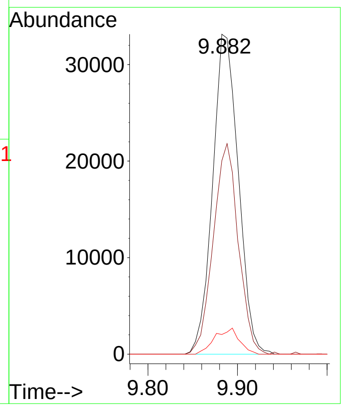
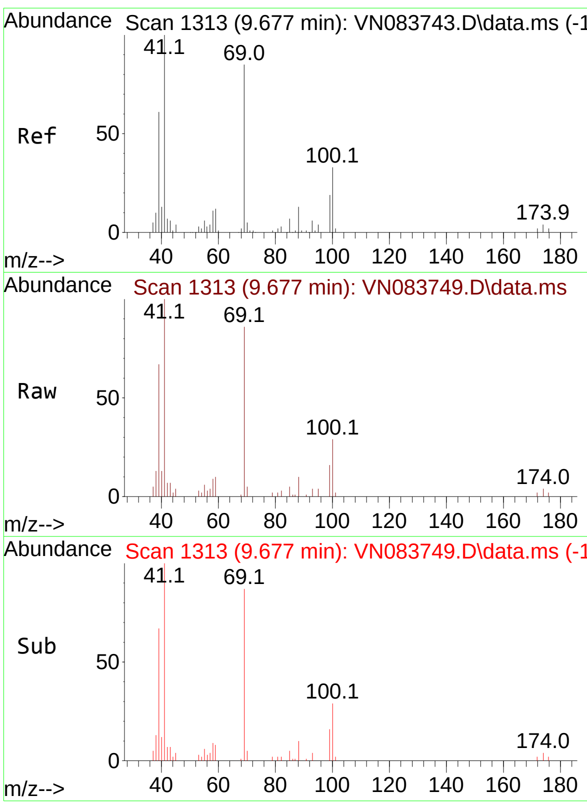


#47
Bromodichloromethane
Concen: 23.945 ug/l
RT: 9.882 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 83 Resp: 6614

Ion	Ratio	Lower	Upper
83	100		
85	60.4	51.8	77.8
127	6.2	6.6	9.8

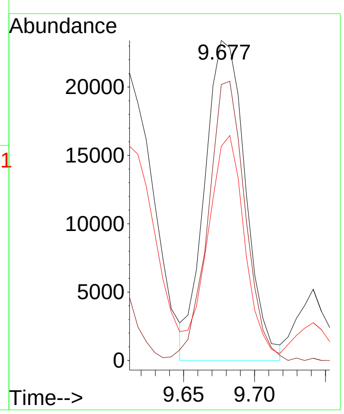


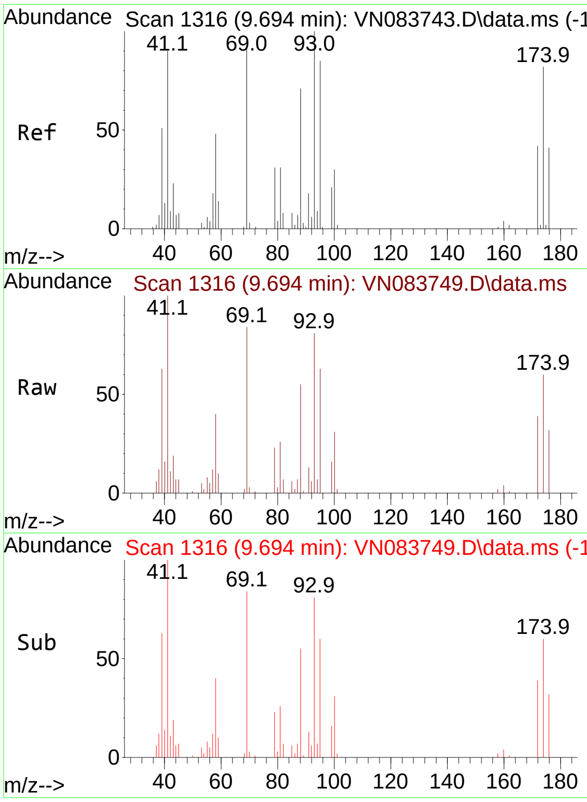


#48
Methyl methacrylate
Concen: 23.933 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 41 Resp: 46788

Ion	Ratio	Lower	Upper
41	100		
69	79.8	64.3	96.5
39	64.6	48.9	73.3





#49
1,4-Dioxane
Concen: 465.914 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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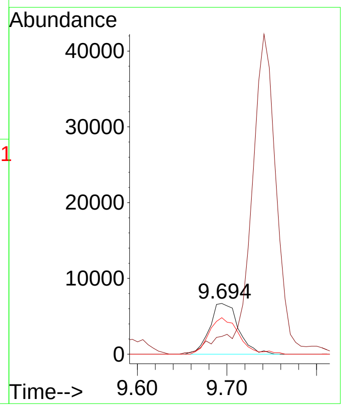
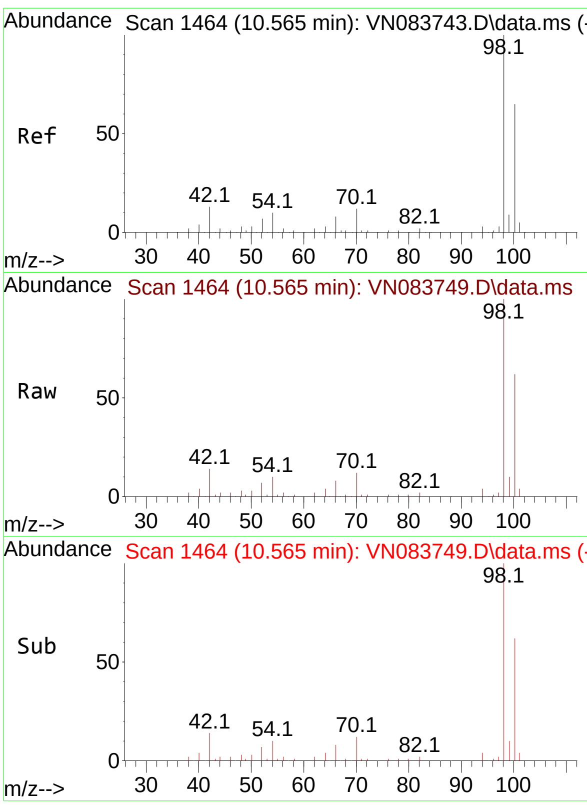
Tgt Ion: 88 Resp: 1498

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	74.8	57.1	85.7

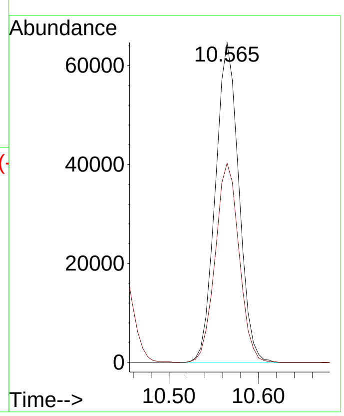




#50
Toluene-d8
Concen: 20.418 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 98 Resp: 117482

Ion	Ratio	Lower	Upper
98	100		
100	63.4	52.0	78.0



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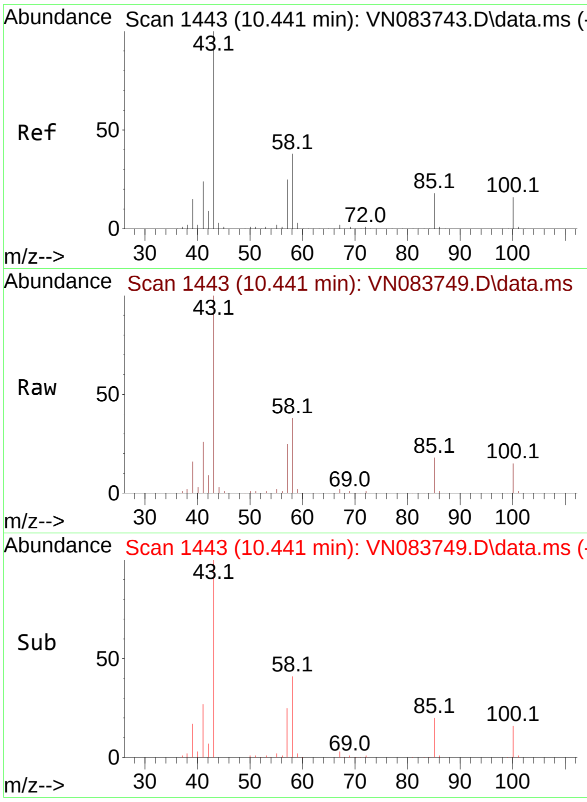

#51
4-Methyl-2-Pentanone
Concen: 120.721 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 43 Resp: 27078

Ion	Ratio	Lower	Upper
43	100		
58	37.6	31.6	47.4

Instrument :
MSVOA_N
ClientSampleId :
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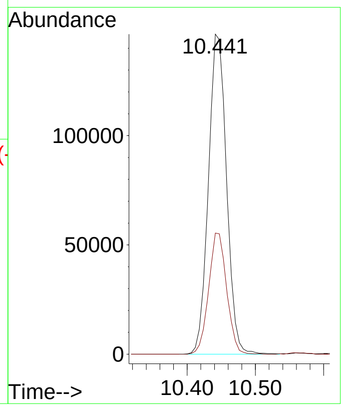
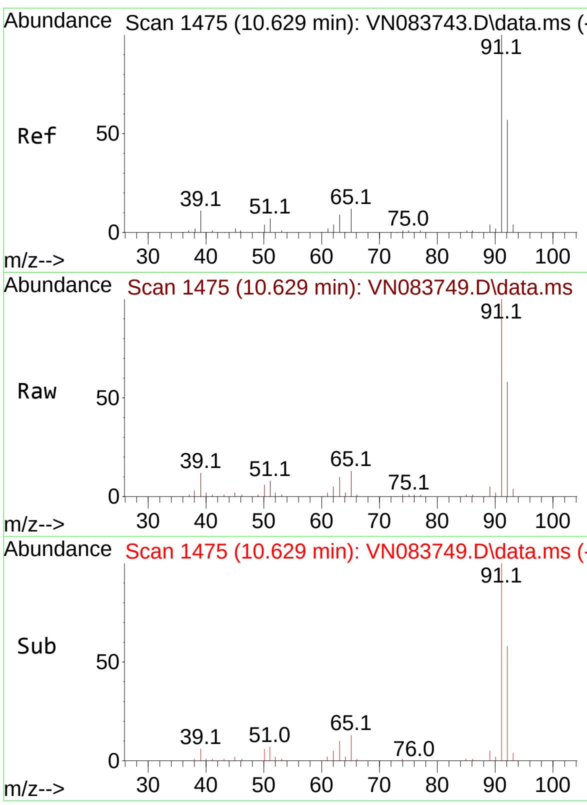
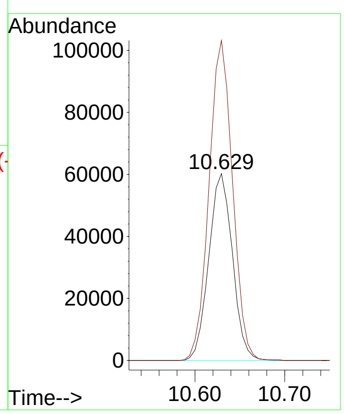




#52
Toluene
Concen: 23.911 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 92 Resp: 110278

Ion	Ratio	Lower	Upper
92	100		
91	170.5	134.7	202.1



Instrument :
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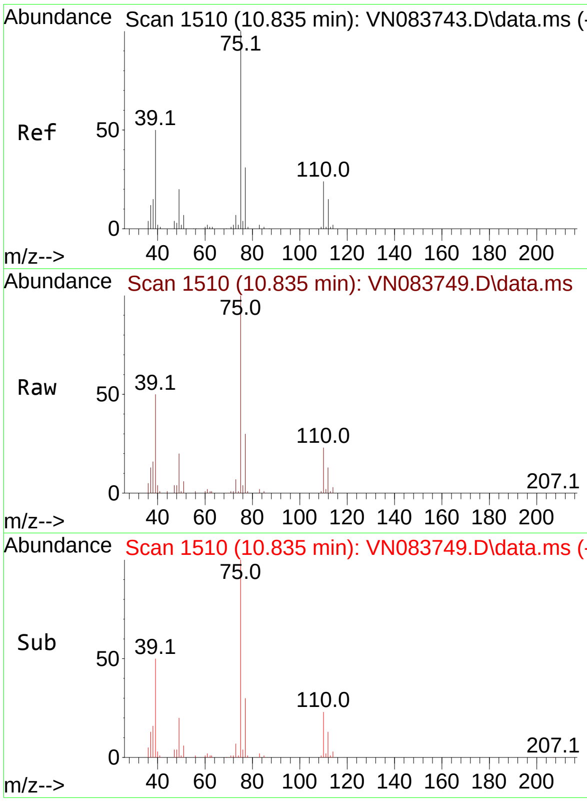
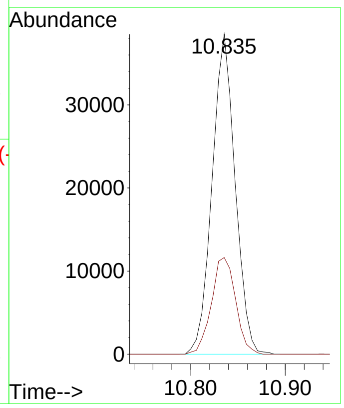
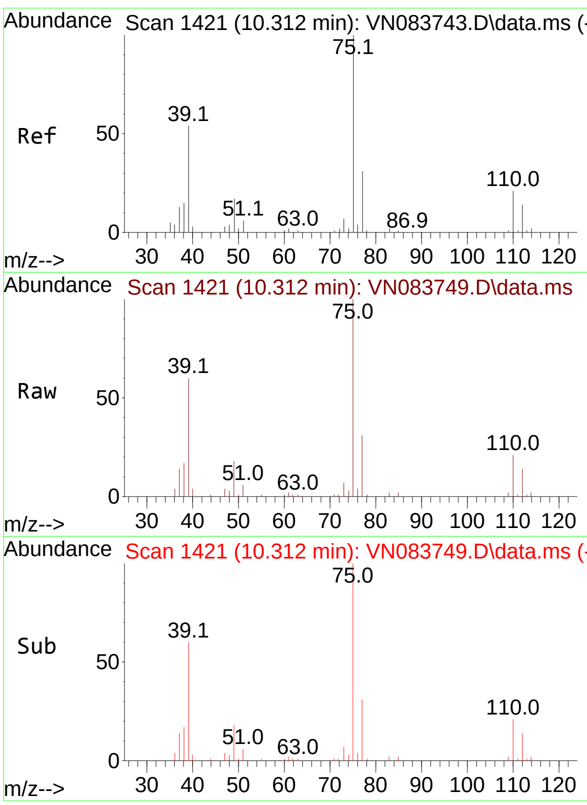


#53
t-1,3-Dichloropropene
Concen: 23.266 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 75 Resp: 65148

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.8	38.6

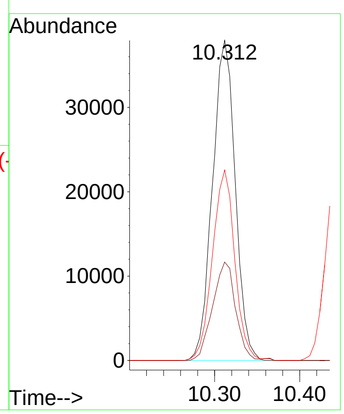


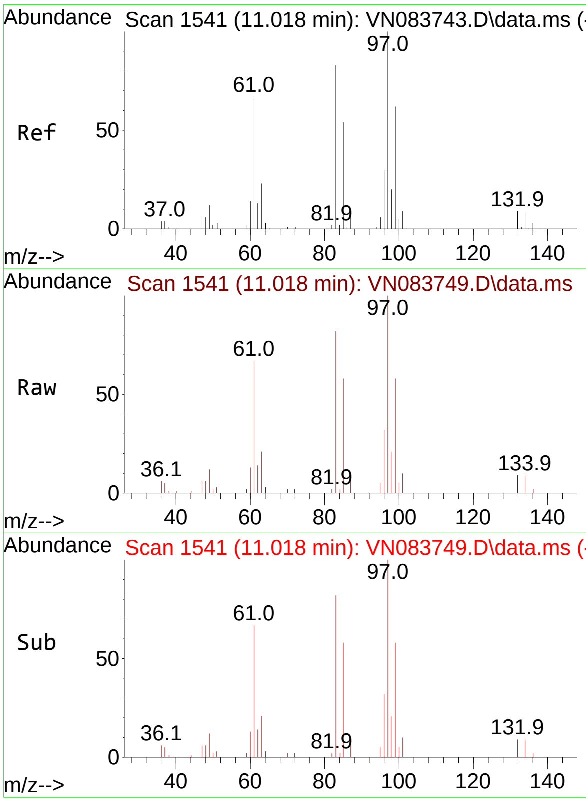


#54
cis-1,3-Dichloropropene
Concen: 24.035 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 75 Resp: 70696

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.0	37.6
39	59.5	42.6	64.0





#55
1,1,2-Trichloroethane
Concen: 23.375 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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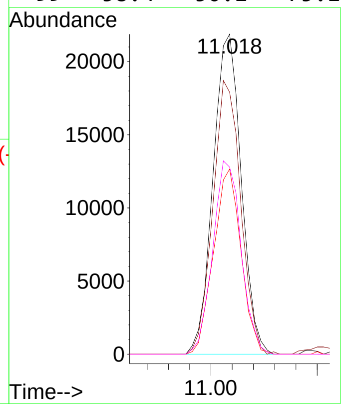
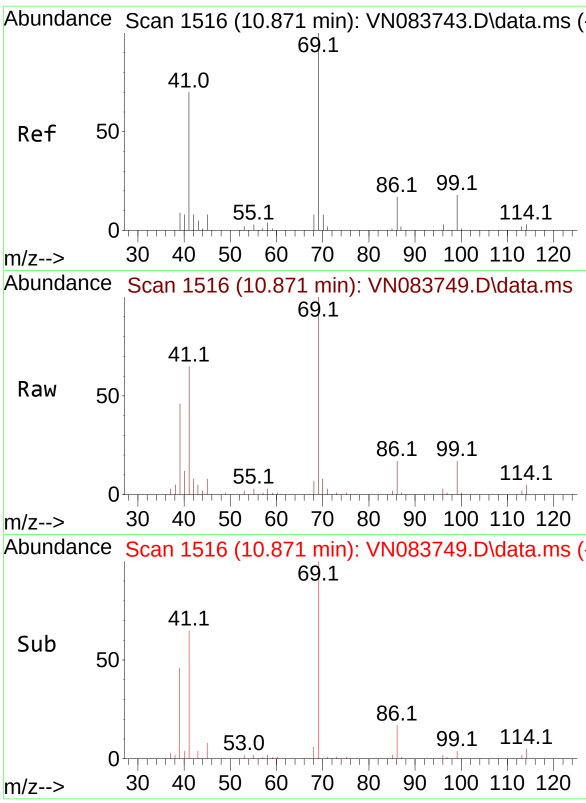
Tgt Ion: 97 Resp: 4024

Ion	Ratio	Lower	Upper
97	100		
83	81.8	67.5	101.3
85	57.8	44.2	66.2
99	58.4	50.1	75.1

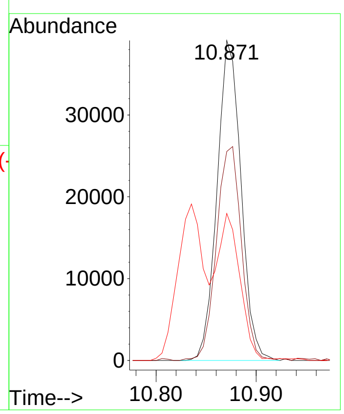




#56
Ethyl methacrylate
Concen: 24.569 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 69 Resp: 65086

Ion	Ratio	Lower	Upper
69	100		
41	69.9	53.9	80.9
39	44.6	32.6	48.8



Instrument : MSVOA_N
ClientSampleId : VSTDICC020

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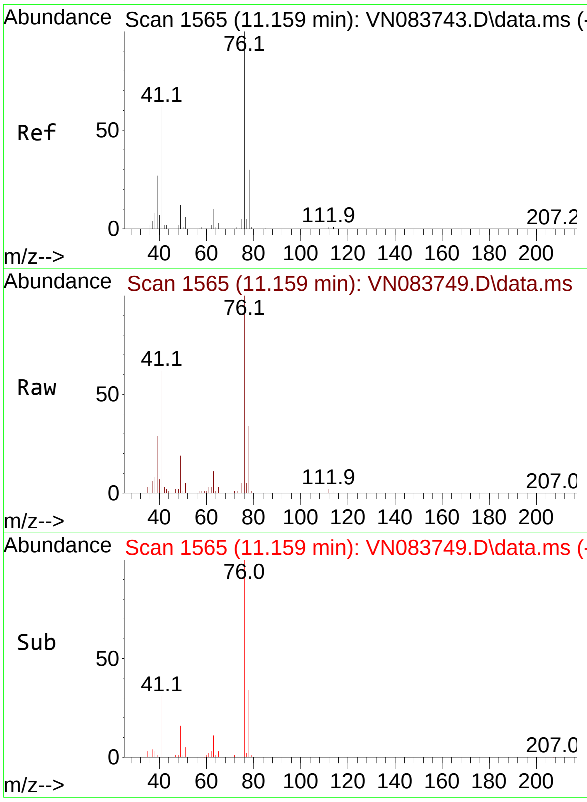
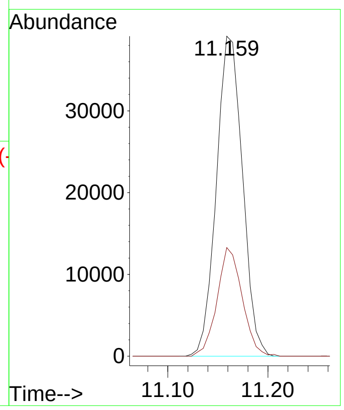
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

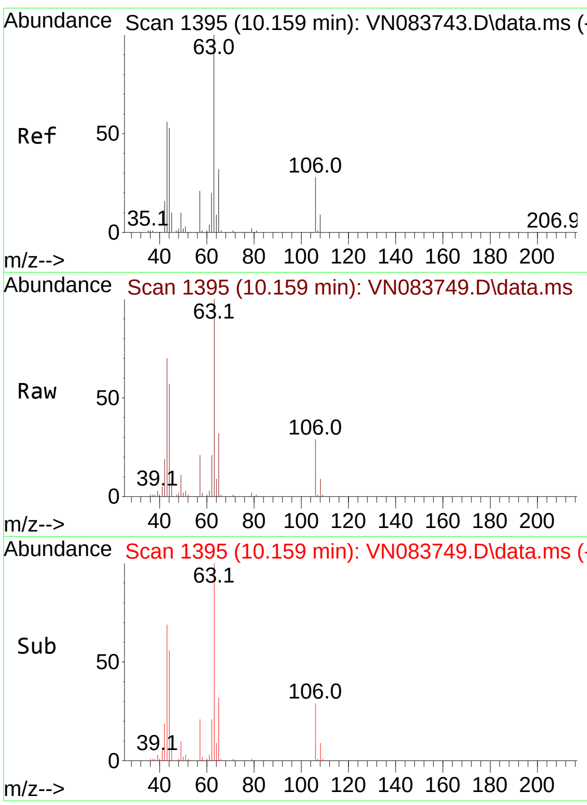


#57
1,3-Dichloropropane
Concen: 23.964 ug/l
RT: 11.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 76 Resp: 7091

Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.6

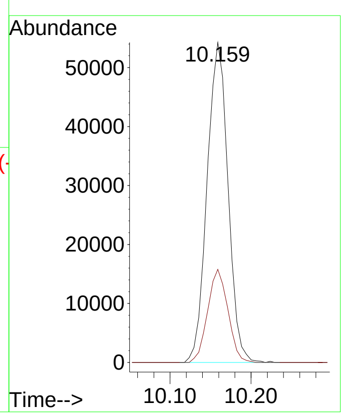




#58
2-Chloroethyl Vinyl ether
Concen: 102.024 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 63 Resp: 97384

Ion	Ratio	Lower	Upper
63	100		
106	28.1	23.3	34.9



Instrument :
MSVOA_N
ClientSampleId :
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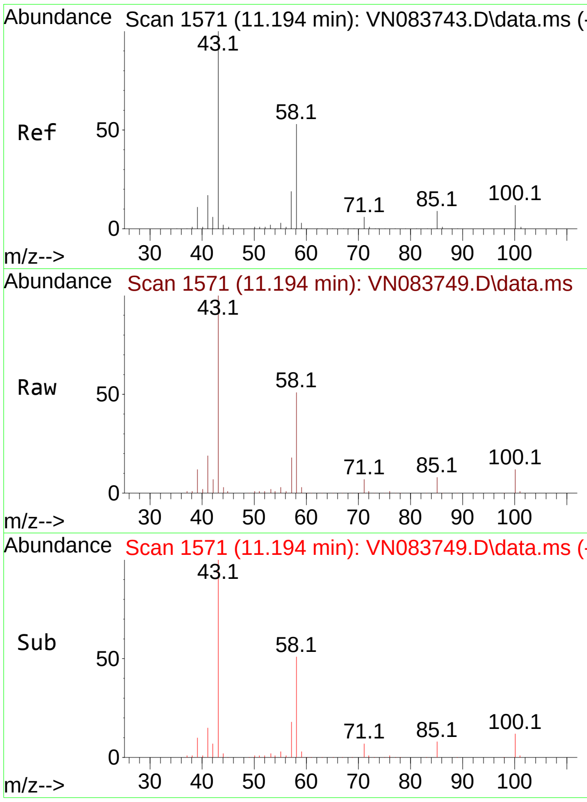
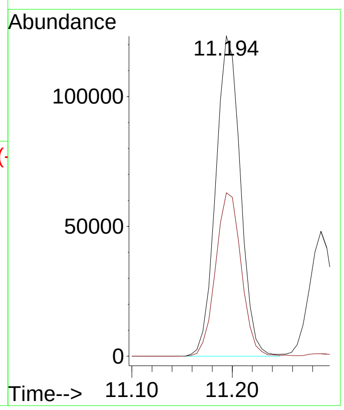
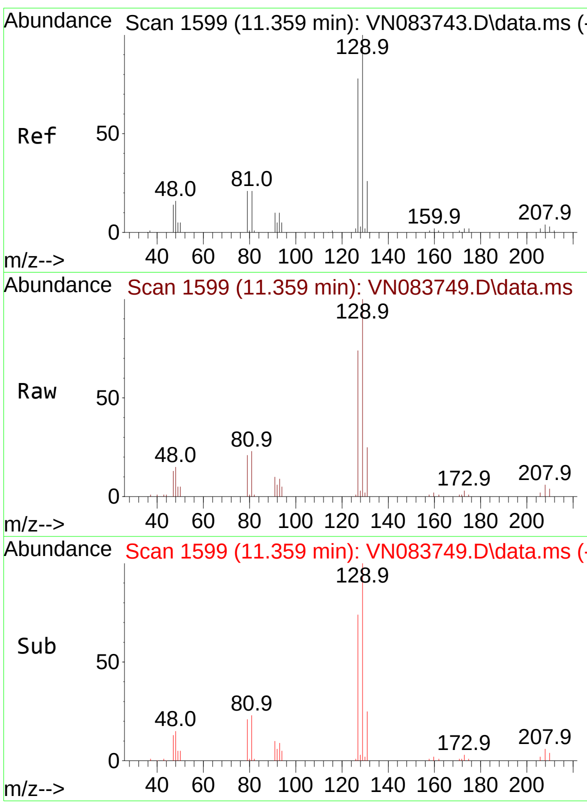
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#59
2-Hexanone
Concen:  126.795 ug/l
RT:  11.194 min   Scan# 1
Delta R.T.   0.000 min
Lab File:    VN083749.D
Acq: 10 Sep 2024  12:43

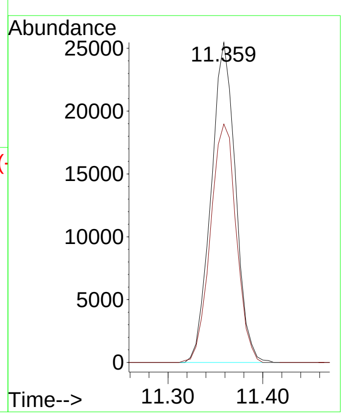
Tgt Ion: 43 Resp:  21038
Ion   Ratio   Lower   Upper
 43   100
 58    53.1    27.2    81.5
```






```
#60
Dibromochloromethane
Concen:   23.725 ug/l
RT:  11.359 min   Scan# 1599
Delta R.T.   0.000 min
Lab File:    VN083749.D
Acq: 10 Sep 2024  12:43

Tgt Ion:129 Resp:   45716
Ion   Ratio   Lower   Upper
129   100
127    78.4    39.0   116.9
```



Instrument :
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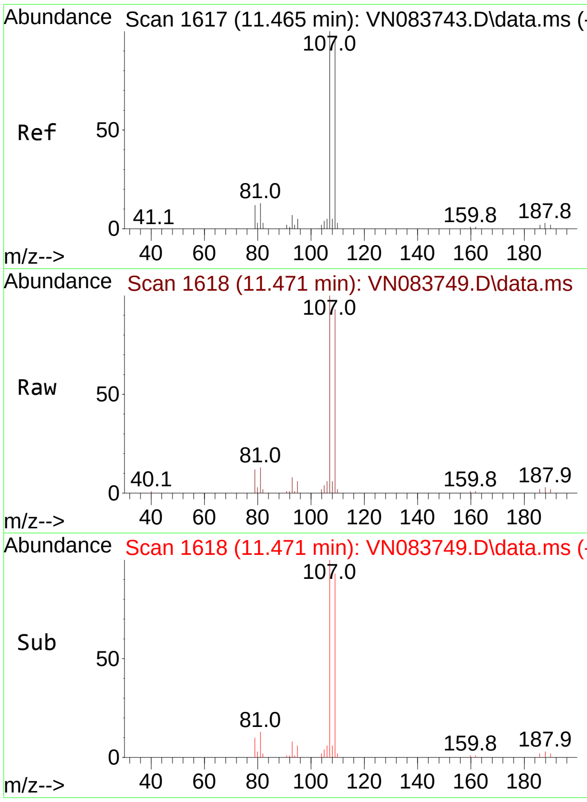
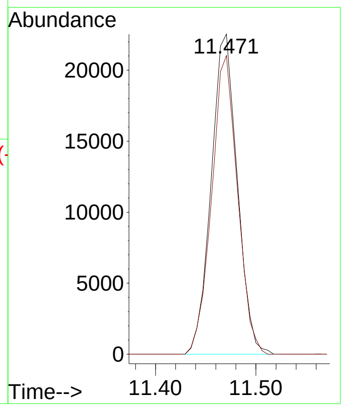
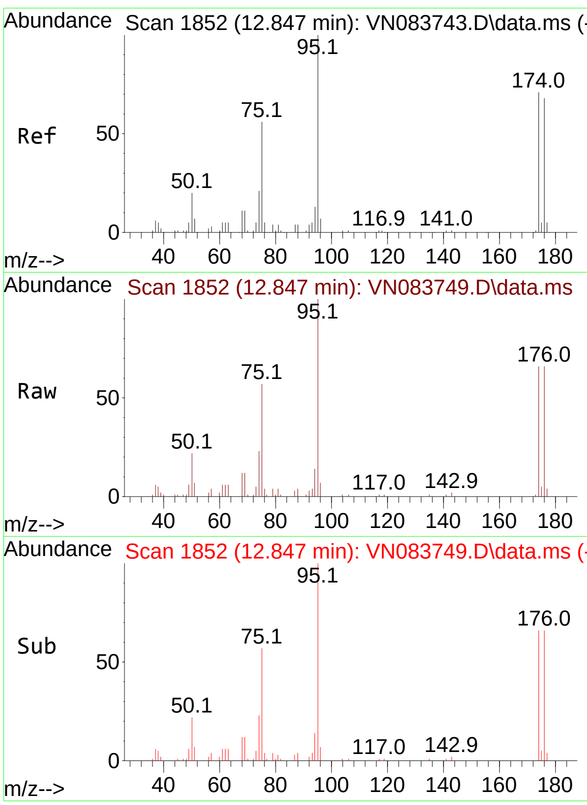


#61
1,2-Dibromoethane
Concen: 23.669 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:107 Resp: 4064

Ion	Ratio	Lower	Upper
107	100		
109	92.5	75.6	113.4

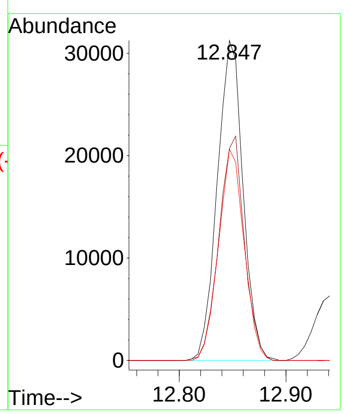




#62
4-Bromofluorobenzene
Concen: 22.046 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 95 Resp: 52334

Ion	Ratio	Lower	Upper
95	100		
174	69.6	0.0	139.8
176	65.7	0.0	131.4



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Instrument :
MSVOA_N
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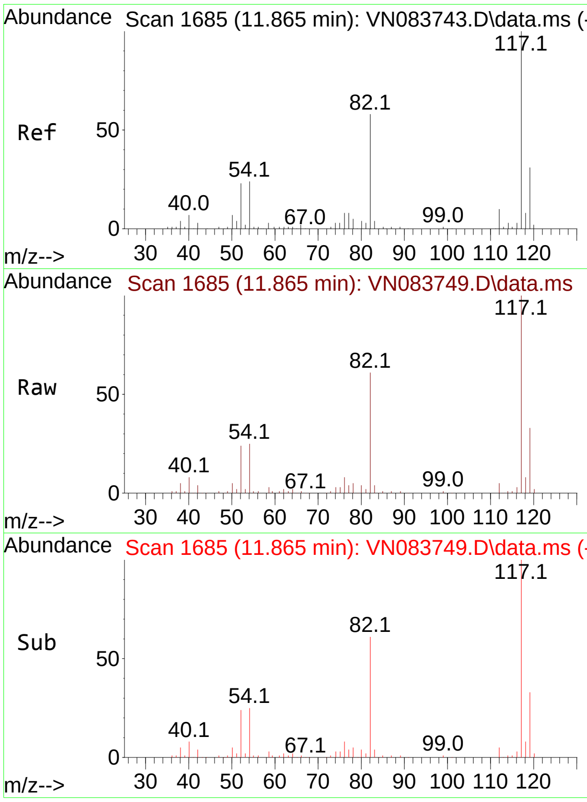
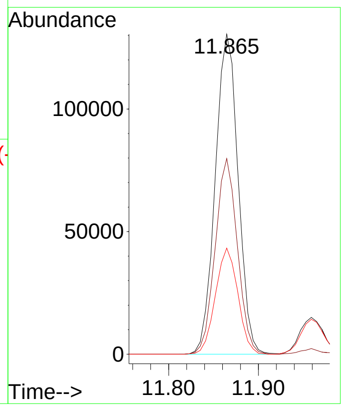
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

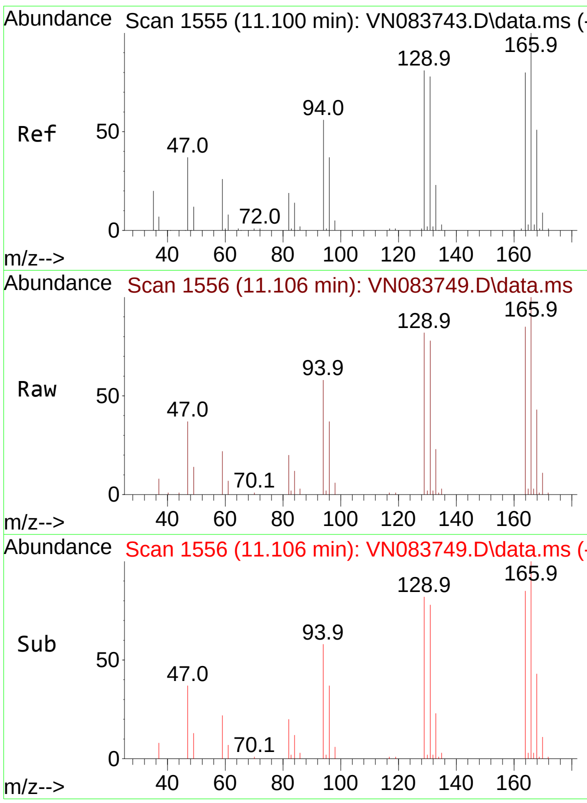


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:117 Resp: 23098

Ion	Ratio	Lower	Upper
117	100		
82	61.1	47.4	71.0
119	33.2	26.3	39.5

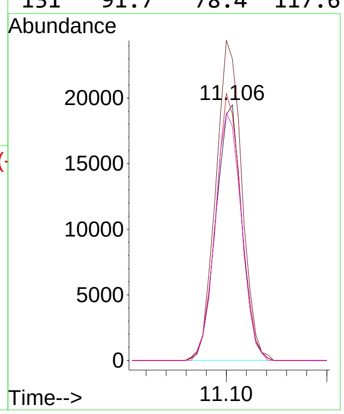


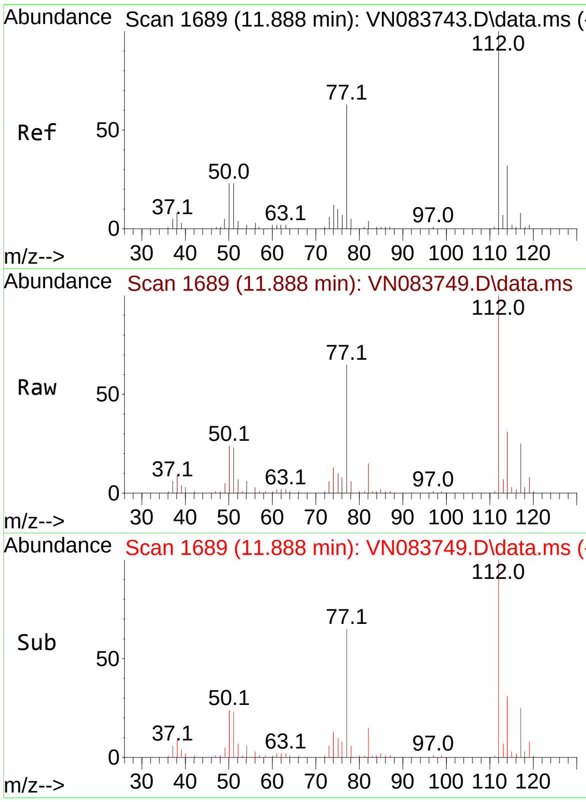


#64
Tetrachloroethene
Concen: 22.688 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:164 Resp: 34851

Ion	Ratio	Lower	Upper
164	100		
166	118.1	103.7	155.5
129	96.4	79.9	119.9
131	91.7	78.4	117.6





#65
Chlorobenzene
Concen: 22.620 ug/l
RT: 11.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:112 Resp: 11612

Ion	Ratio	Lower	Upper
112	100		
114	30.5	25.7	38.5

Instrument :
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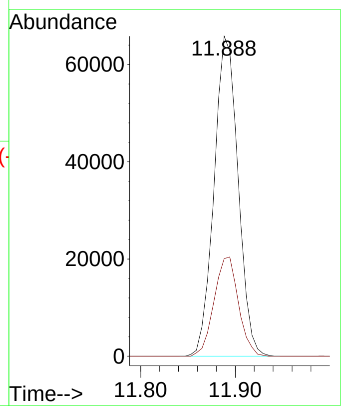
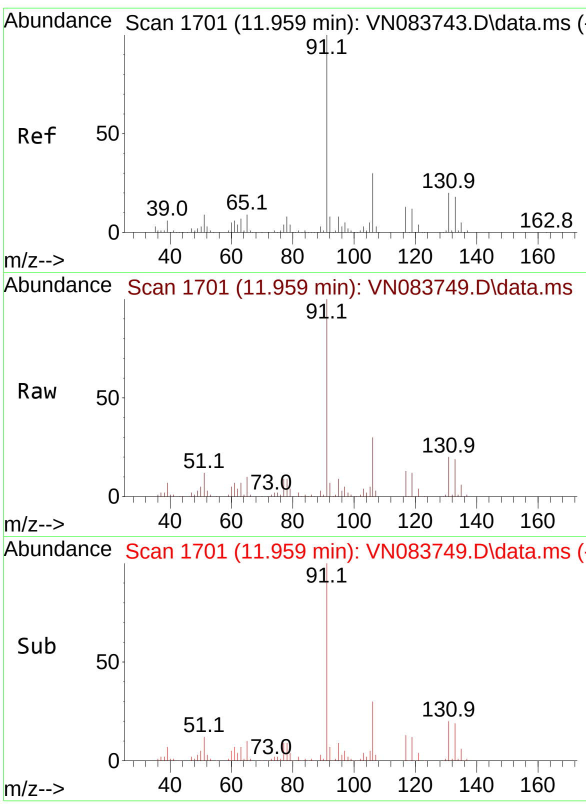
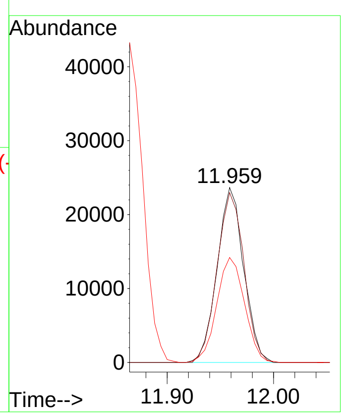




#66
1,1,1,2-Tetrachloroethane
Concen: 23.124 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:131 Resp: 41153

Ion	Ratio	Lower	Upper
131	100		
133	98.4	47.5	142.6
119	62.7	31.6	94.8



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
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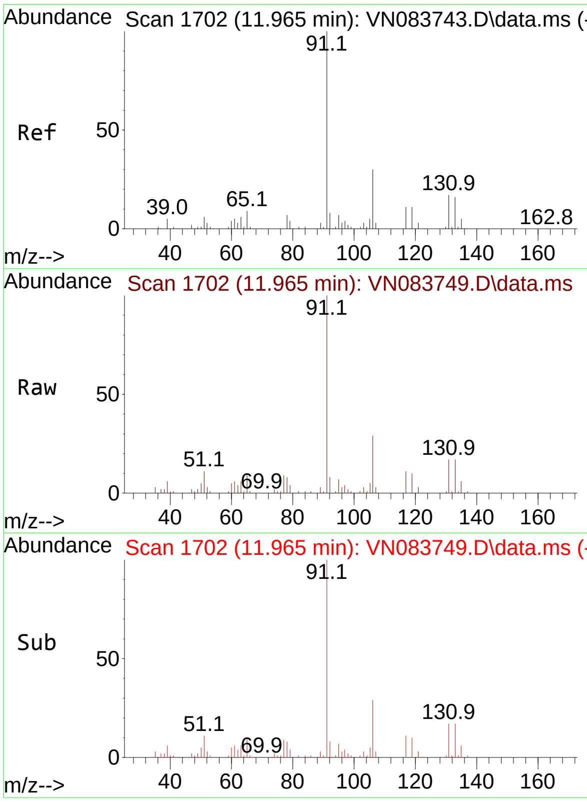
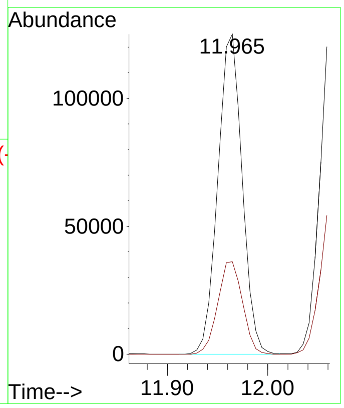
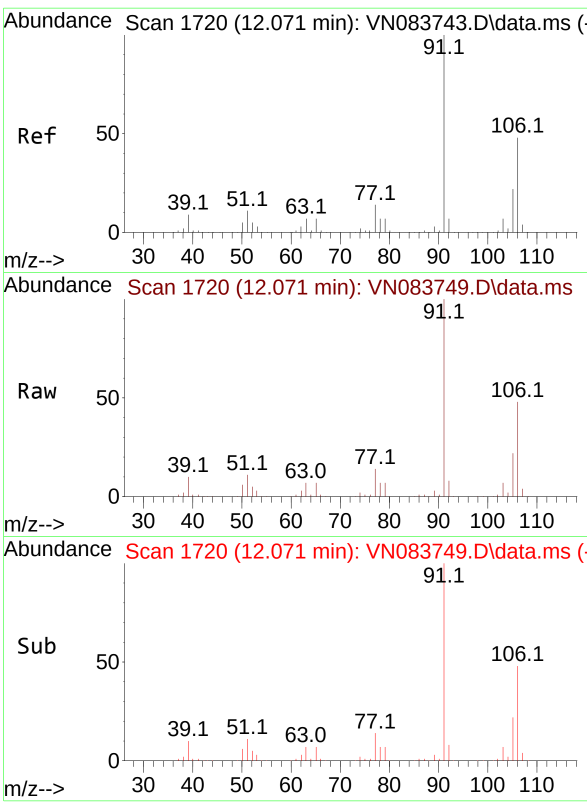



```
#67
Ethyl Benzene
Concen:   23.106 ug/l
RT:  11.965 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083749.D
Acq: 10 Sep 2024  12:43

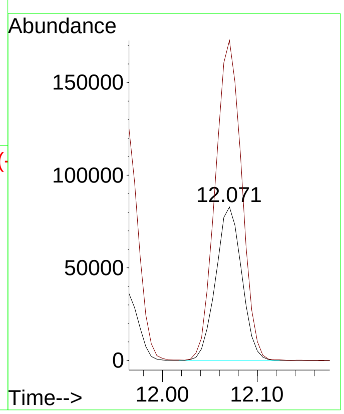
Tgt Ion: 91 Resp:  21071
Ion  Ratio  Lower  Upper
 91  100
106   28.9   24.3   36.5
```






```
#68
m/p-Xylenes
Concen:   46.734 ug/l
RT:  12.071 min  Scan# 1720
Delta R.T.  0.000 min
Lab File:   VN083749.D
Acq: 10 Sep 2024  12:43

Tgt Ion:106 Resp:  158230
Ion  Ratio  Lower  Upper
106  100
 91  211.5  169.2  253.8
```



Instrument :
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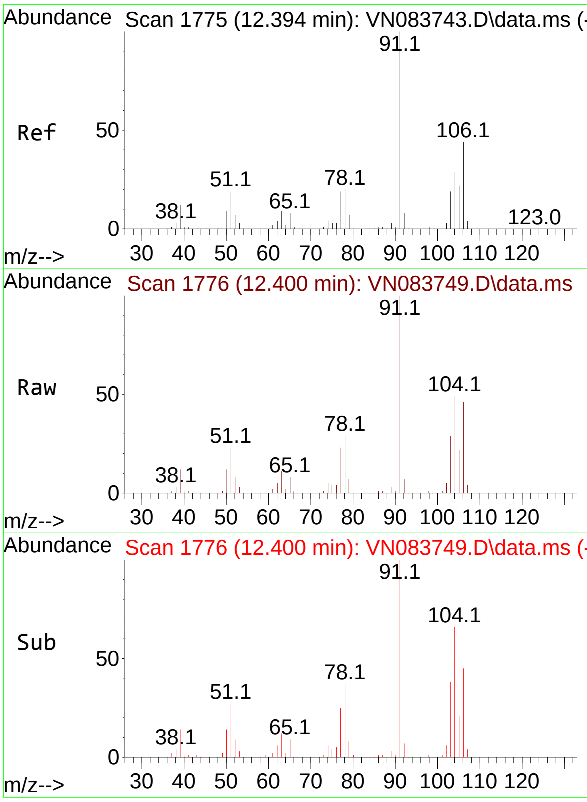
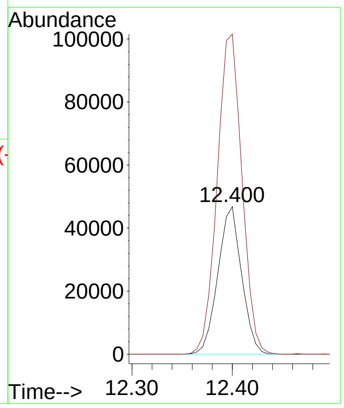
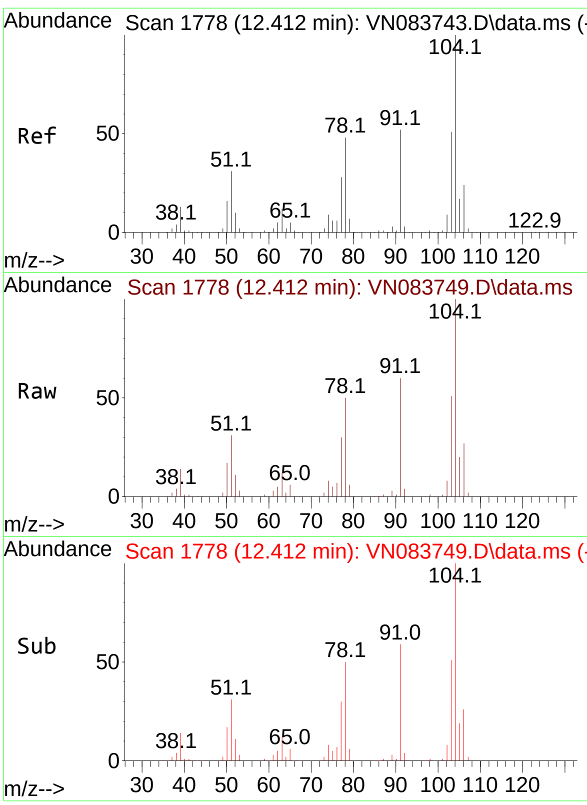



```
#69
o-Xylene
Concen:   23.438 ug/l
RT:  12.400 min  Scan# 1
Delta R.T.  0.006 min
Lab File:   VN083749.D
Acq: 10 Sep 2024  12:43

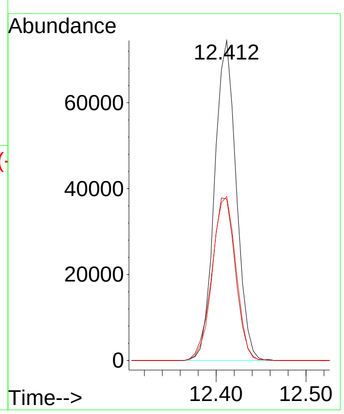
Tgt Ion:106 Resp:   7682
Ion  Ratio  Lower  Upper
106  100
 91  226.6  112.9  338.6
```

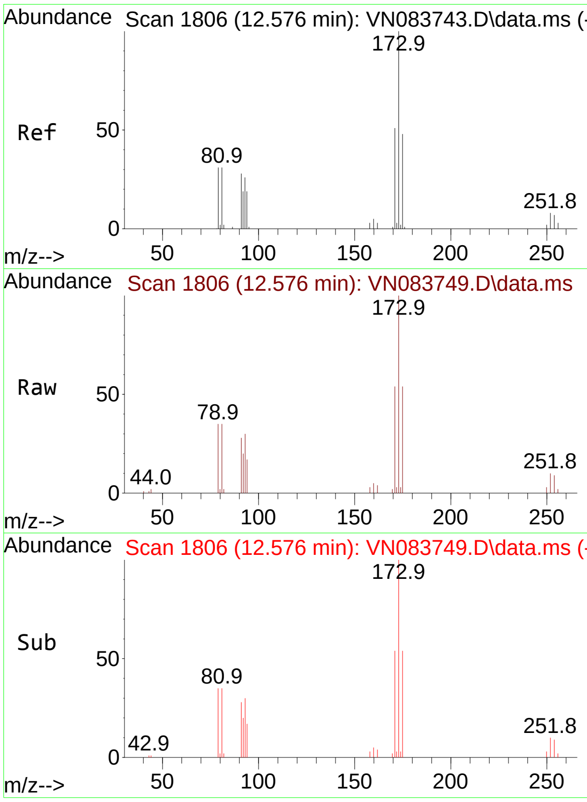





```
#70
Styrene
Concen:   23.262 ug/l
RT:  12.412 min  Scan# 1778
Delta R.T.  0.000 min
Lab File:   VN083749.D
Acq: 10 Sep 2024  12:43

Tgt Ion:104 Resp:  125129
Ion  Ratio  Lower  Upper
104  100
 78   55.7   43.3   64.9
103   55.6   43.4   65.2
```

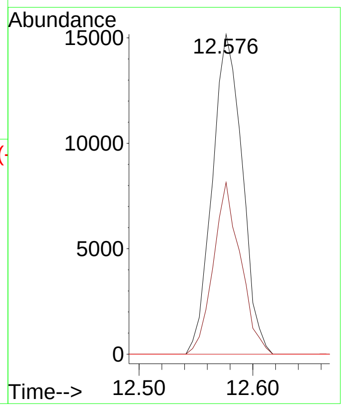




#71
Bromoform
Concen: 23.185 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:173 Resp: 27805

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.1	72.2
254	0.0	0.0	0.0



Instrument :
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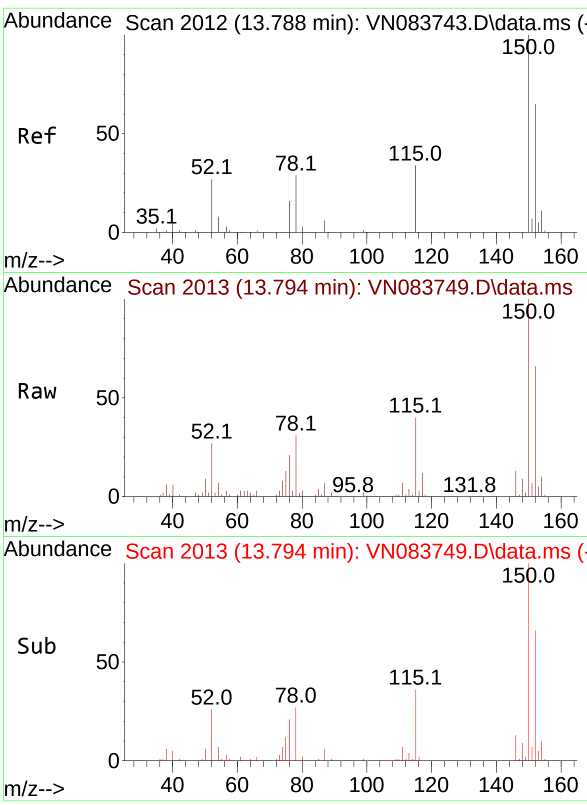
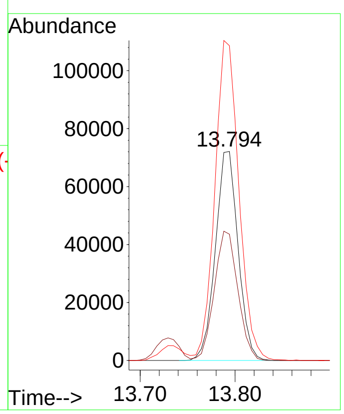
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:152 Resp: 120031

Ion	Ratio	Lower	Upper
152	100		
115	64.1	32.2	96.6
150	162.3	0.0	348.6



Instrument :
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ClientSampleId :
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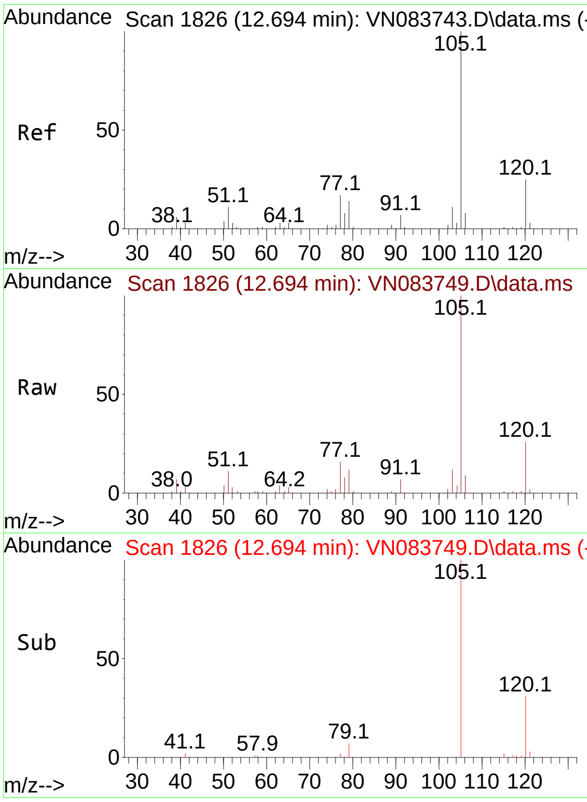
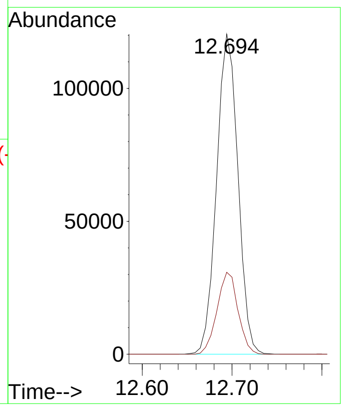
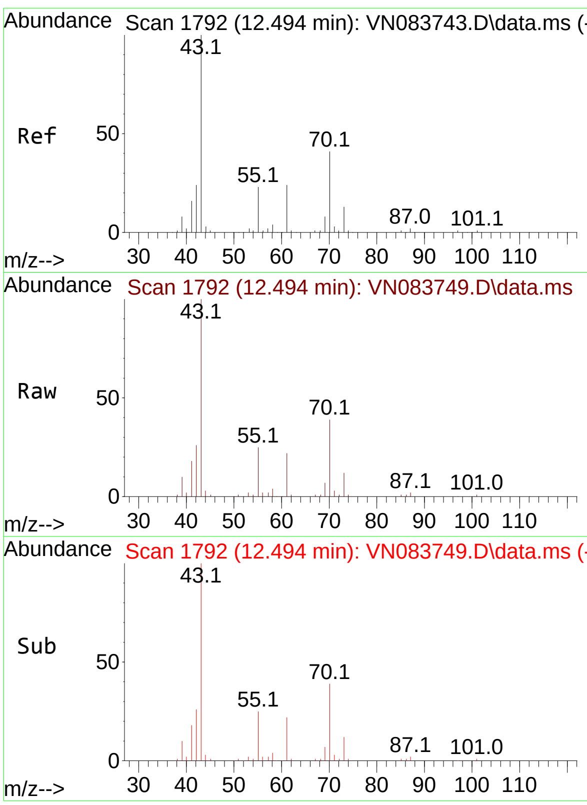


#73
Isopropylbenzene
Concen: 21.379 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:105 Resp: 19853

Ion	Ratio	Lower	Upper
105	100		
120	25.1	12.6	37.8

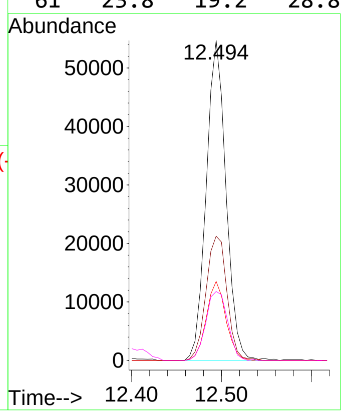


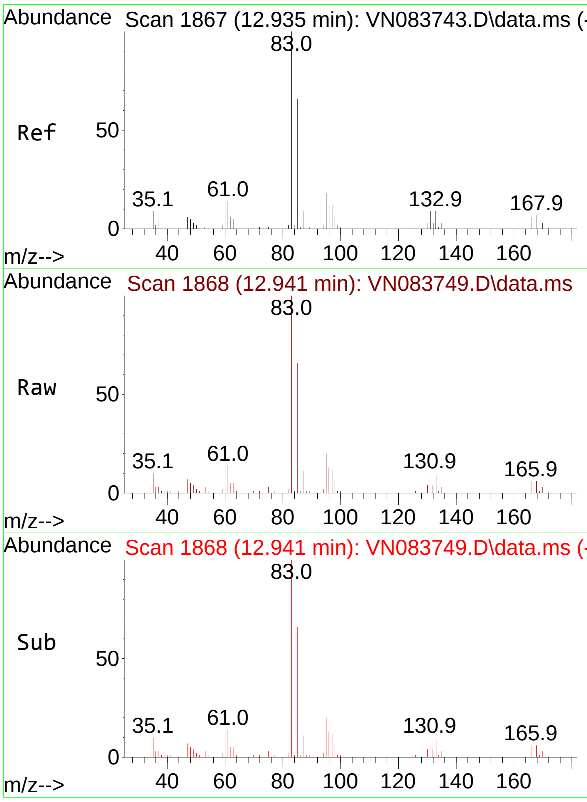


#74
N-amyl acetate
Concen: 21.141 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 43 Resp: 83761

Ion	Ratio	Lower	Upper
43	100		
70	41.0	34.5	51.7
55	24.5	18.6	28.0
61	23.8	19.2	28.8





#75
1,1,2,2-Tetrachloroethane
Concen: 20.500 ug/l
RT: 12.941 min   Scan# 18
Delta R.T.   0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion: 83 Resp: 5593

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.2	15.6
85	66.3	31.9	95.9

Instrument :
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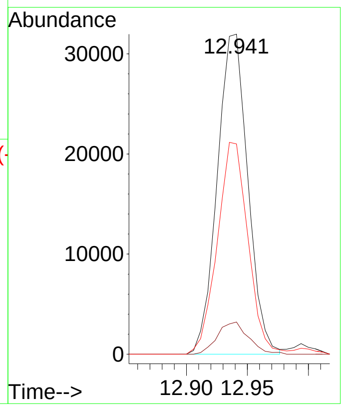
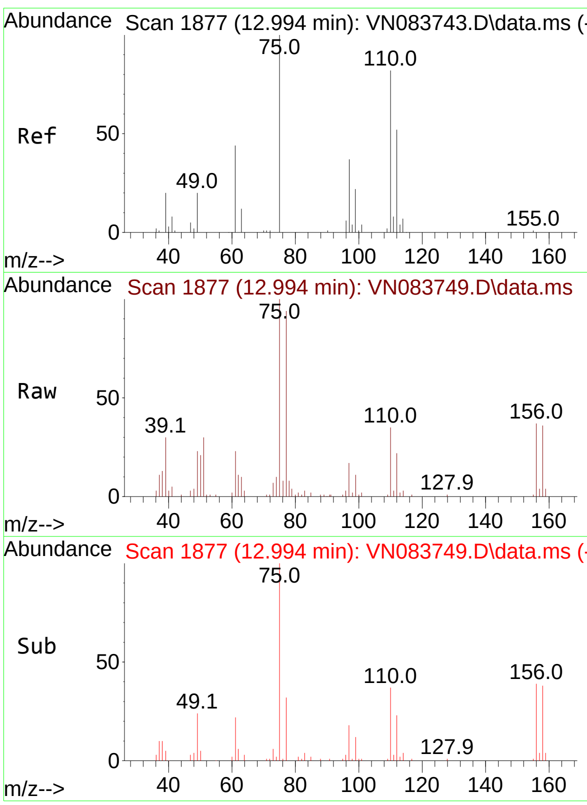
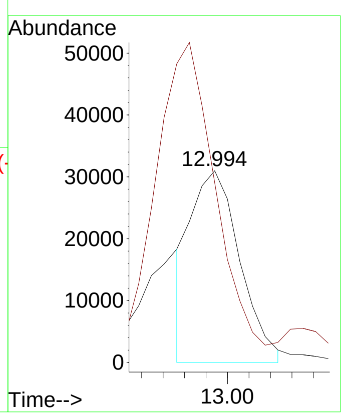


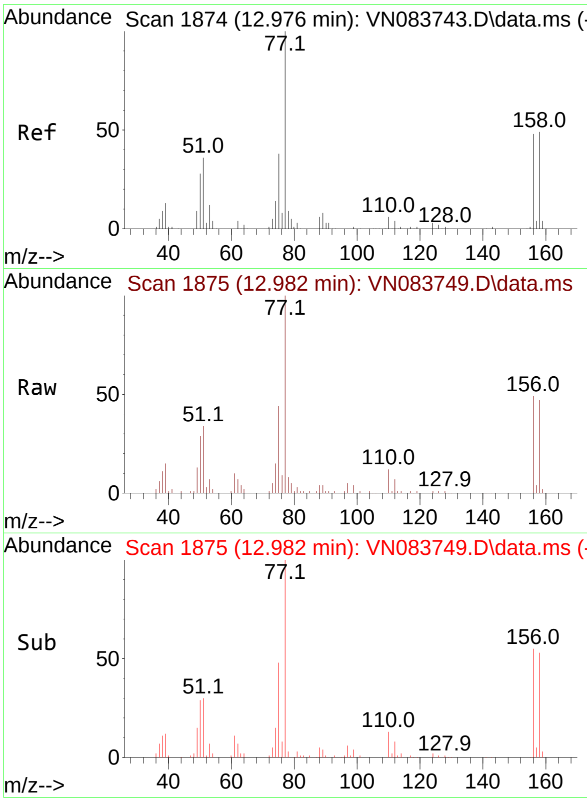


#76
1,2,3-Trichloropropane
Concen: 20.452 ug/l m
RT: 12.994 min   Scan# 1877
Delta R.T.   0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion: 75 Resp: 49535

Ion	Ratio	Lower	Upper
75	100		
77	205.7	95.2	285.6

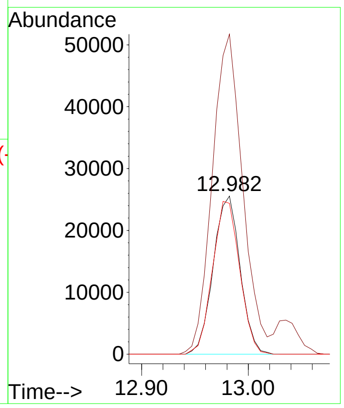




#77
Bromobenzene
Concen: 19.984 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:156 Resp: 4467

Ion	Ratio	Lower	Upper
156	100		
77	228.1	114.3	343.1
158	97.6	48.9	146.7



Instrument : MSVOA_N
ClientSampleId : VSTDICC020

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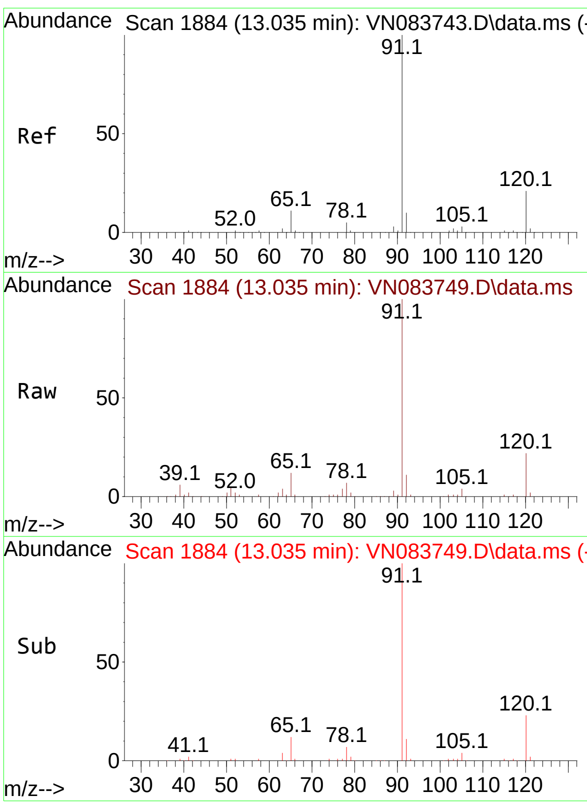
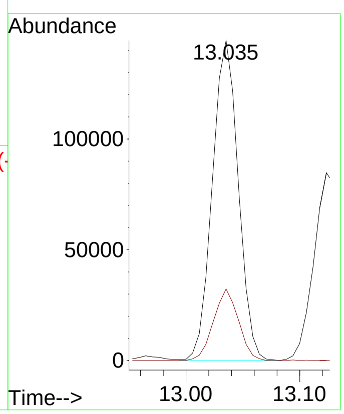
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

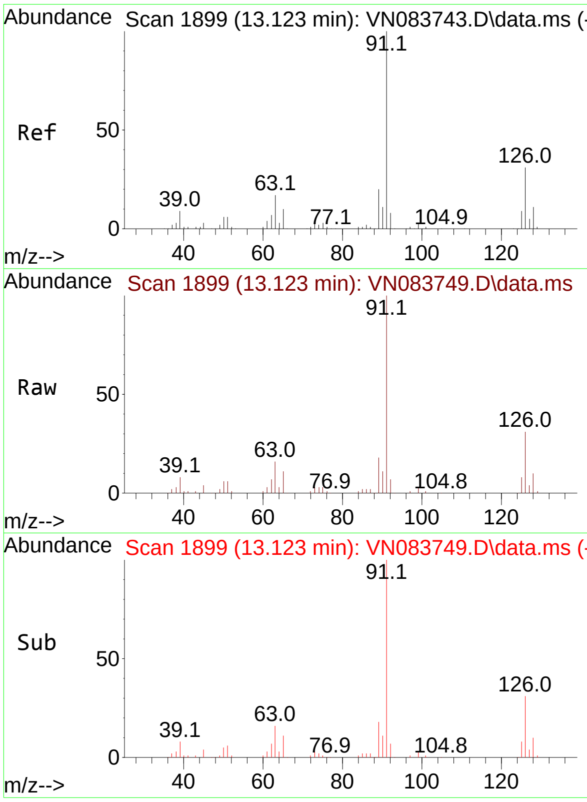


#78
n-propylbenzene
Concen: 21.223 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 91 Resp: 229309

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.0	33.0





#79
2-Chlorotoluene
Concen: 21.370 ug/l
RT: 13.123 min   Scan# 1
Delta R.T.   0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion: 91 Resp: 14725

Ion	Ratio	Lower	Upper
91	100		
126	30.3	15.4	46.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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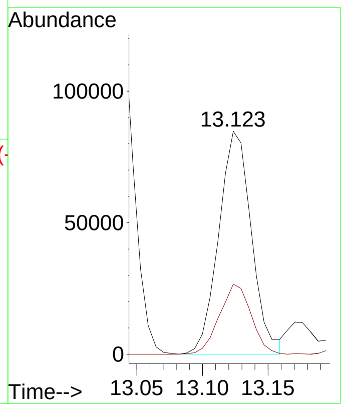
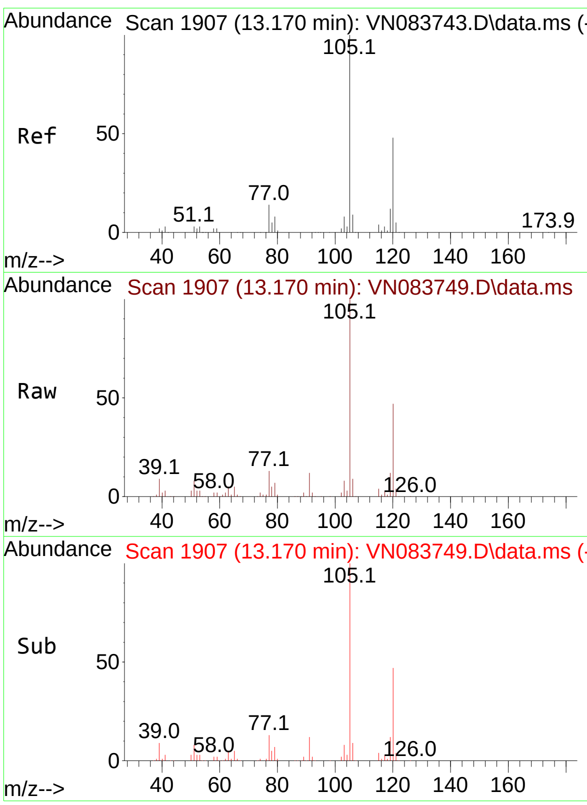
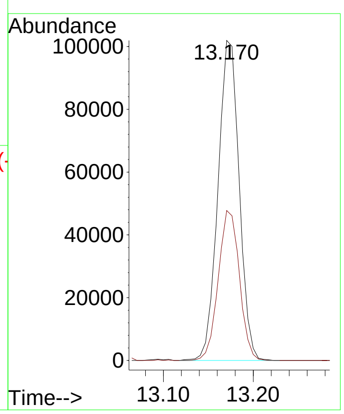


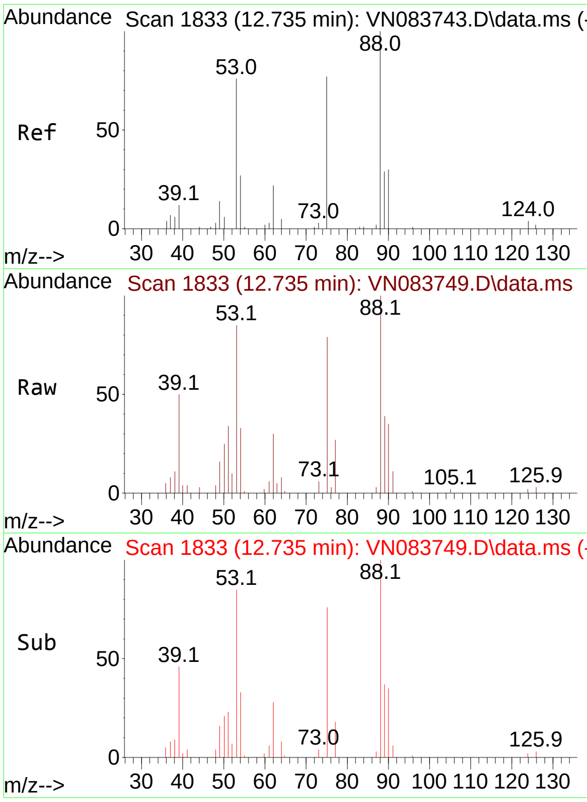


#80
1,3,5-Trimethylbenzene
Concen: 21.379 ug/l
RT: 13.170 min   Scan# 1907
Delta R.T.   0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024   12:43

Tgt Ion:105 Resp: 167379

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.4	70.3





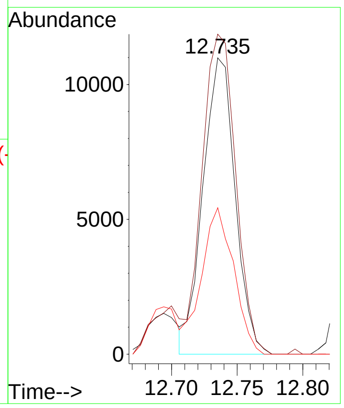
#81
trans-1,4-Dichloro-2-butene
Concen: 20.274 ug/l
RT: 12.735 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

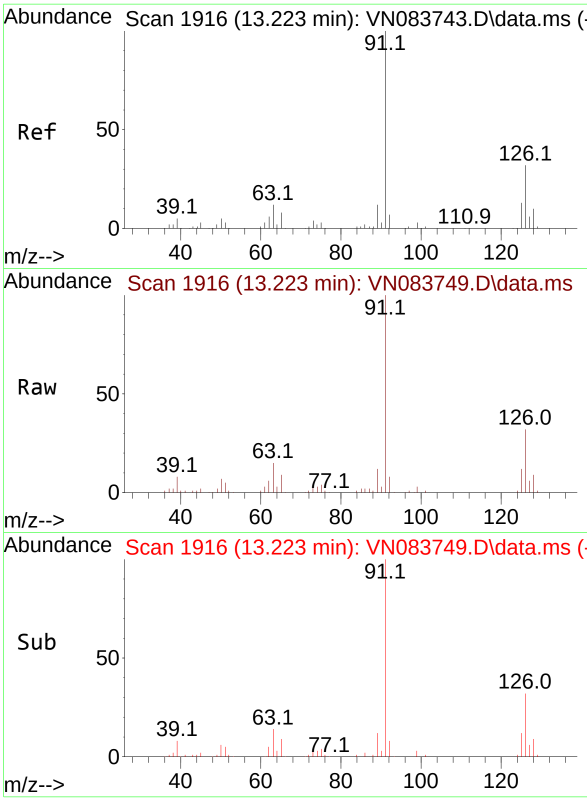
Tgt Ion: 75 Resp: 18748

Ion	Ratio	Lower	Upper
75	100		
53	127.4	81.2	121.8#
89	49.9	35.7	53.5

Instrument : MSVOA_N
ClientSampleId : VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

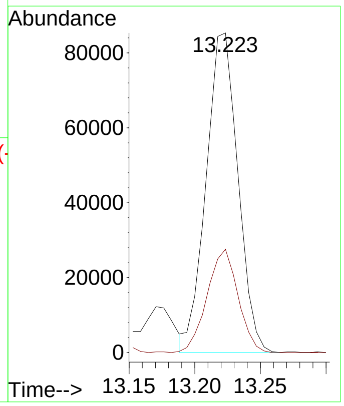




#82
4-Chlorotoluene
Concen: 20.818 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

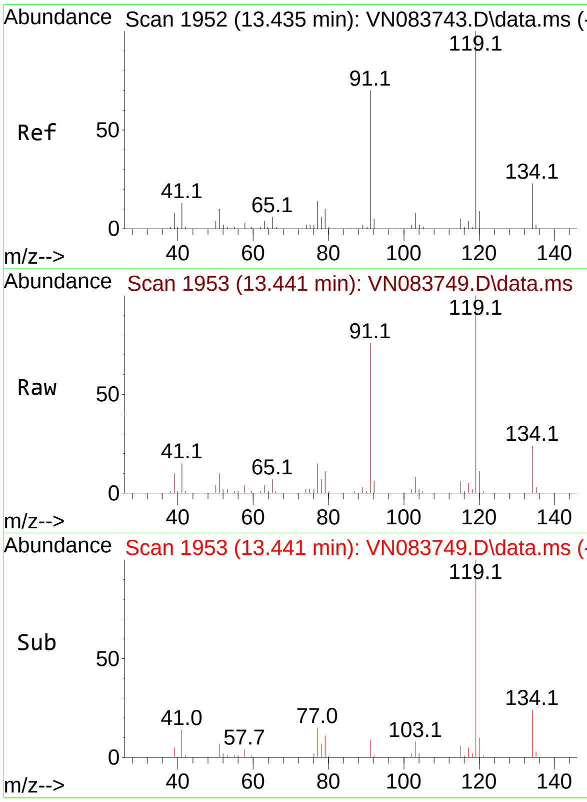
Tgt Ion: 91 Resp: 143958

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.4	46.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

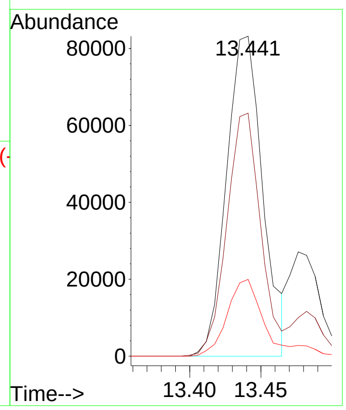
Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

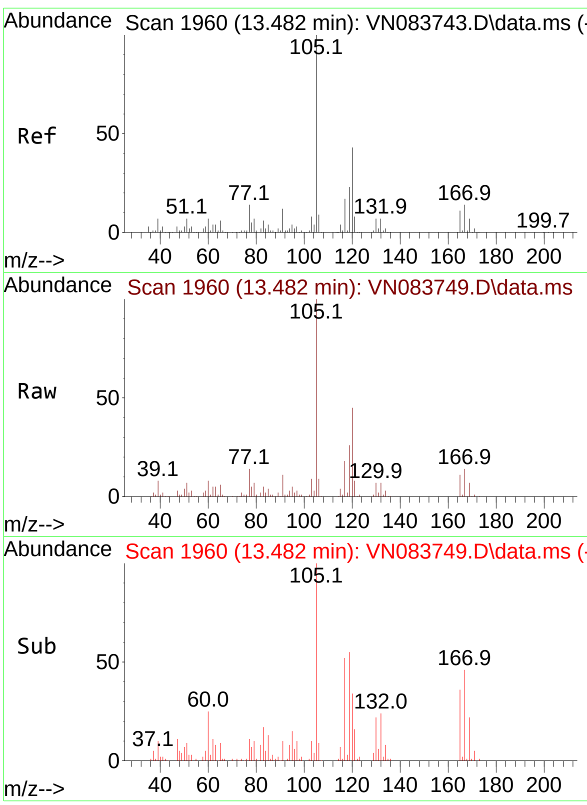


#83
tert-Butylbenzene
Concen: 21.499 ug/l
RT: 13.441 min Scan# 19
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:119 Resp: 14726

Ion	Ratio	Lower	Upper
119	100		
91	71.1	34.5	103.6
134	25.3	12.8	38.4

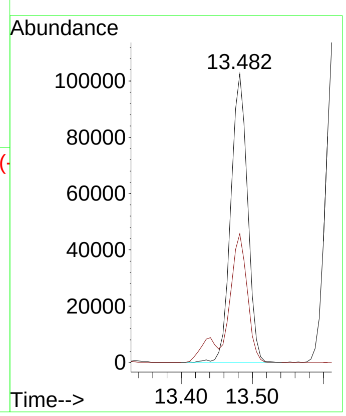


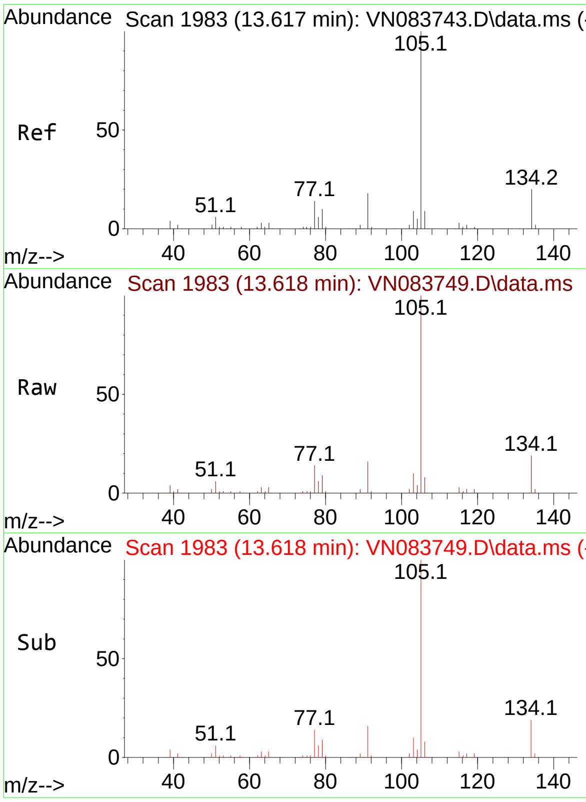


#84
1,2,4-Trimethylbenzene
Concen: 21.294 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:105 Resp: 167470

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.8	65.4





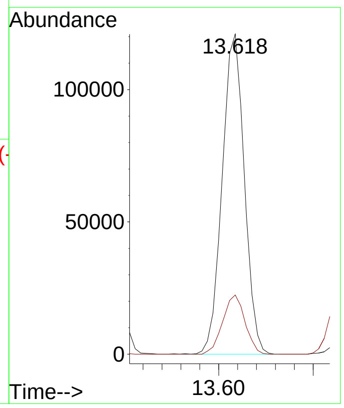
#85
sec-Butylbenzene
Concen: 21.699 ug/l
RT: 13.618 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

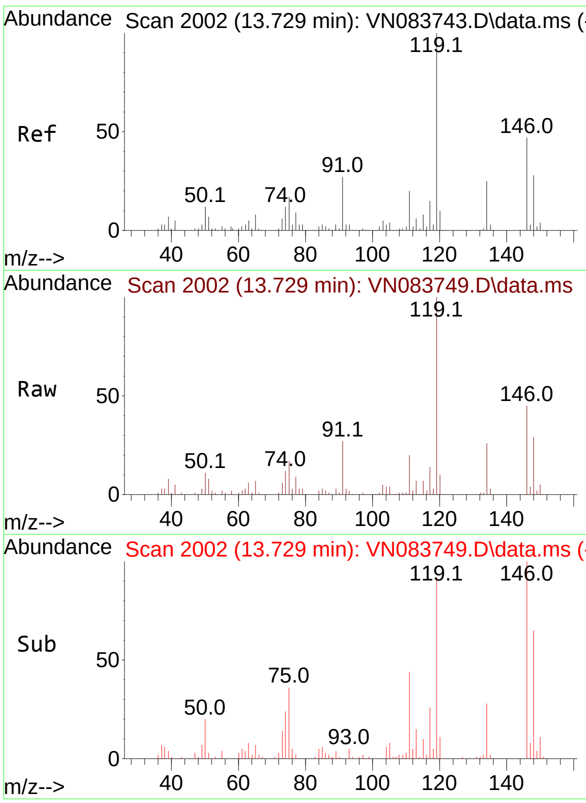
Tgt Ion:105 Resp: 197111

Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.7	29.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

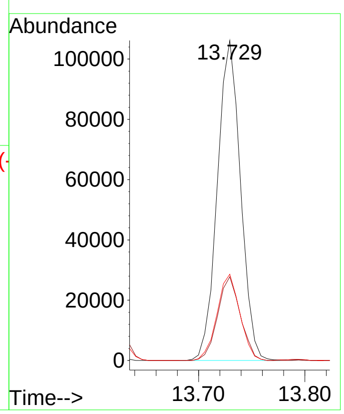




#86
p-Isopropyltoluene
Concen: 21.110 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:119 Resp: 160758

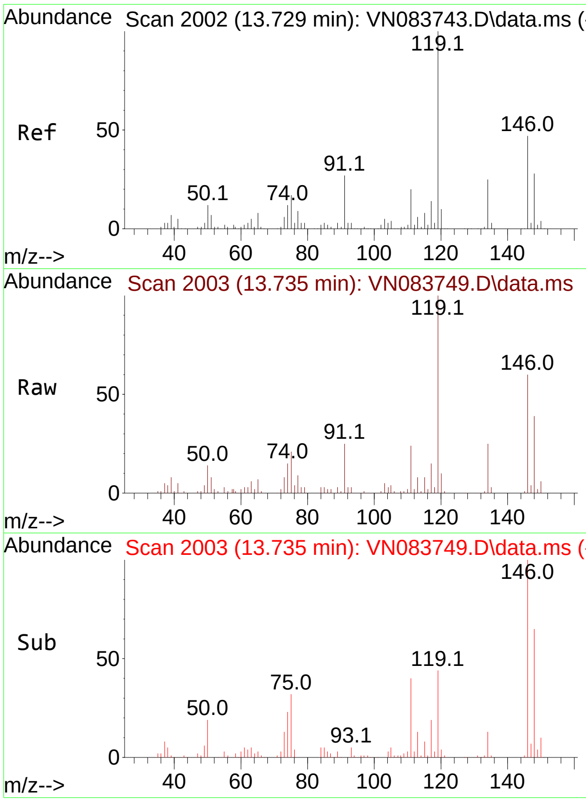
Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.3
91	26.5	12.9	38.7



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

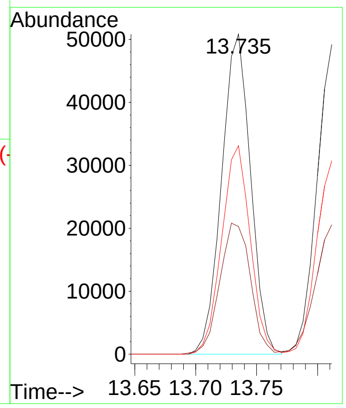
Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

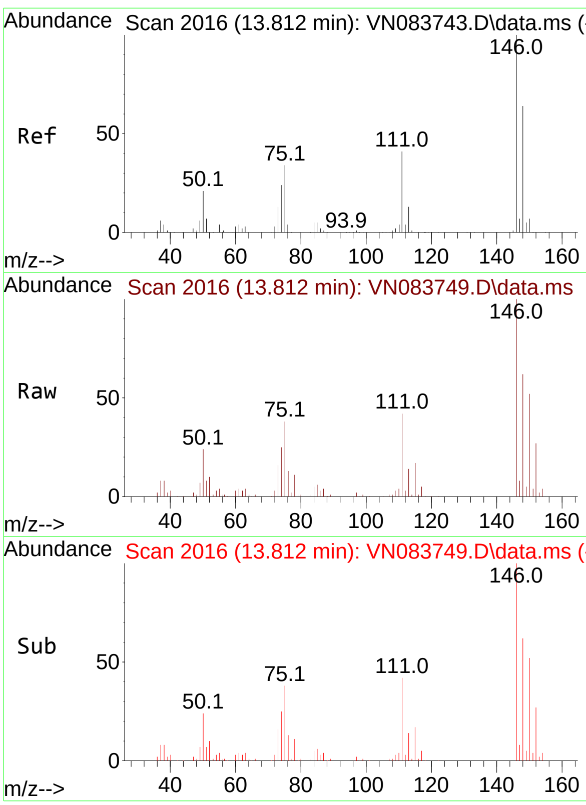


#87
1,3-Dichlorobenzene
Concen: 19.957 ug/l
RT: 13.735 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:146 Resp: 84190

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.7	65.1
148	64.5	31.7	95.1

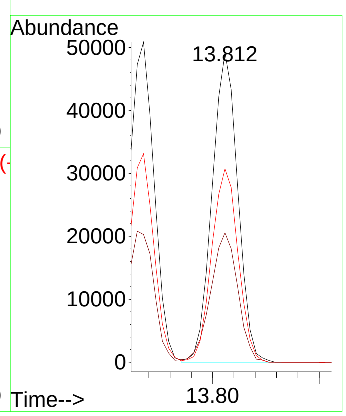


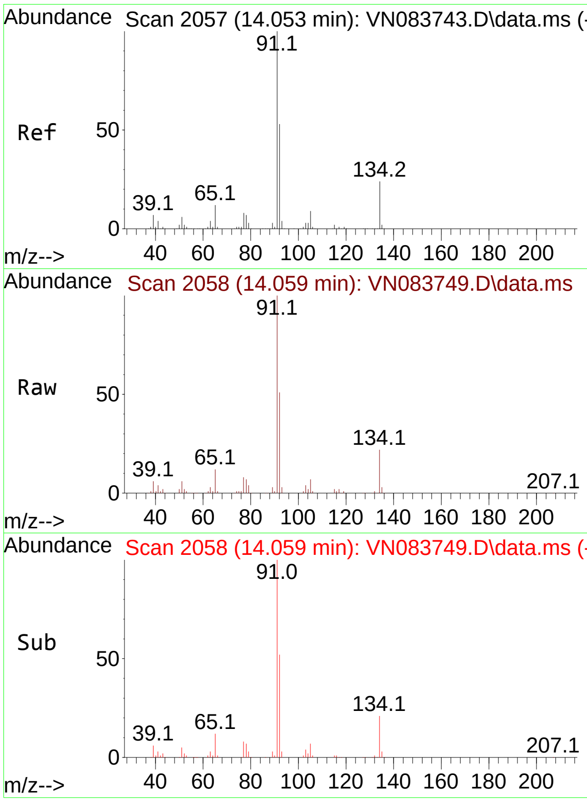


#88
1,4-Dichlorobenzene
Concen: 19.311 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:146 Resp: 82492

Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.3	64.0
148	64.3	32.0	96.2





#89
n-Butylbenzene
Concen: 20.506 ug/l
RT: 14.059 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

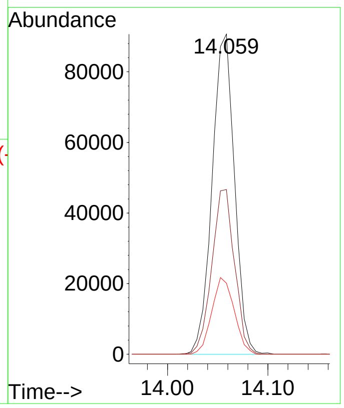
Tgt Ion: 91 Resp: 14020

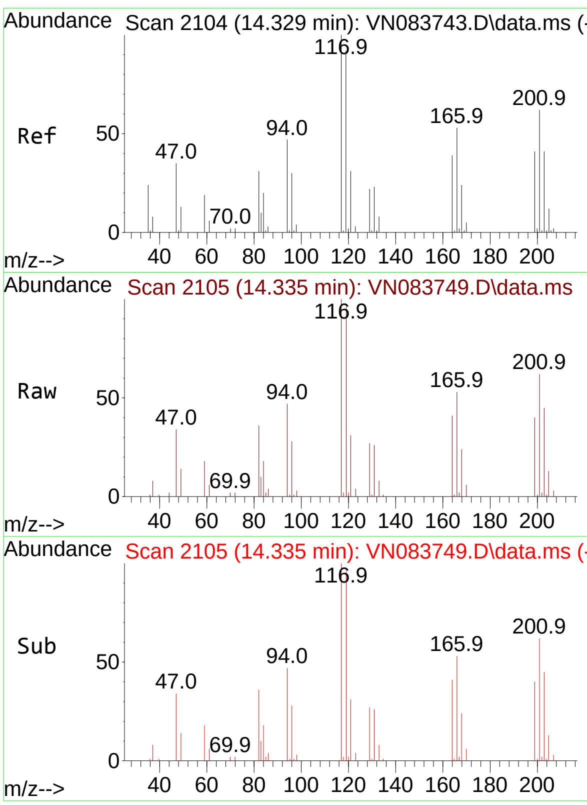
Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.7	80.1
134	24.1	12.2	36.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

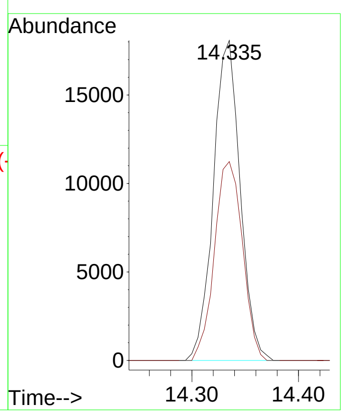




#90
Hexachloroethane
Concen: 20.629 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:117 Resp: 31578

Ion	Ratio	Lower	Upper
117	100		
201	65.0	32.8	98.3



1
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16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
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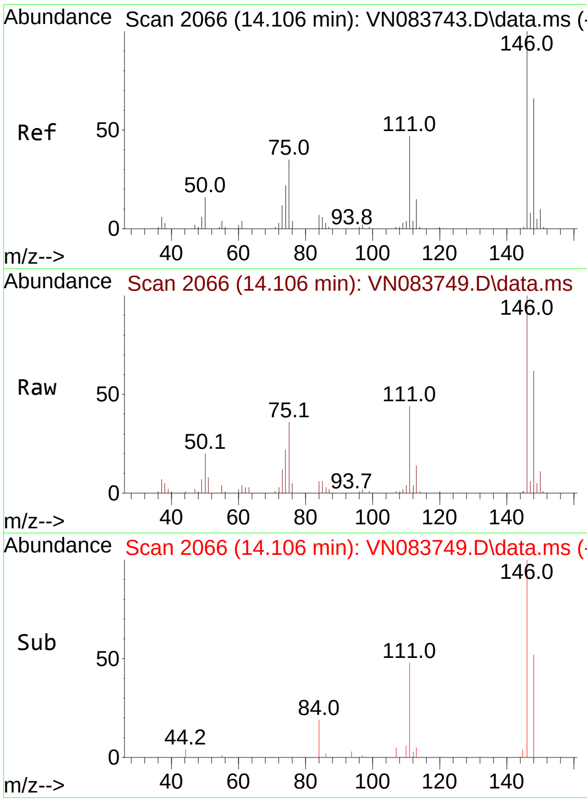
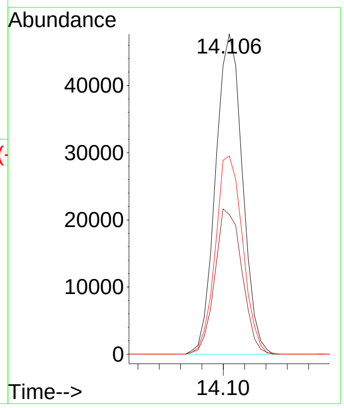
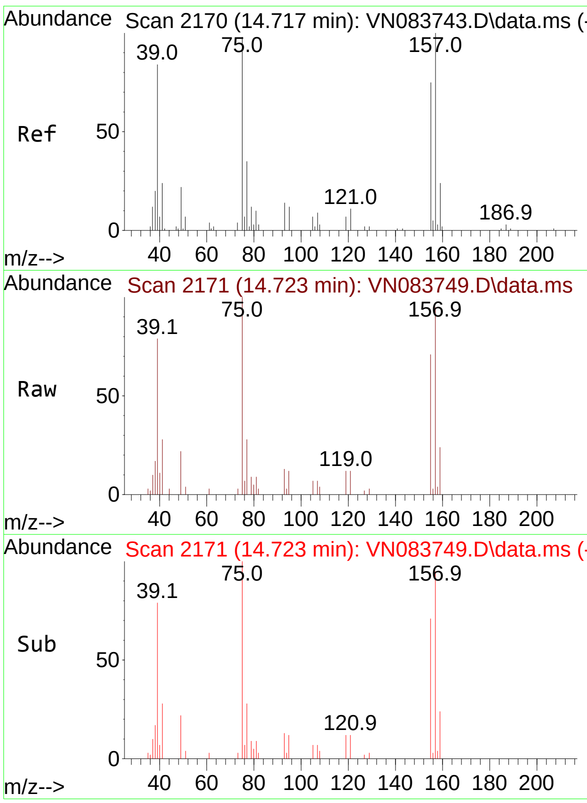


#91
1,2-Dichlorobenzene
Concen: 20.523 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:146 Resp: 8355

Ion	Ratio	Lower	Upper
146	100		
111	45.8	22.8	68.3
148	62.8	32.1	96.5

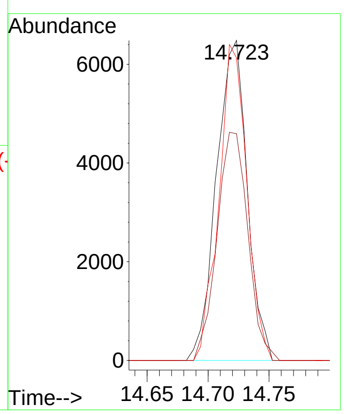


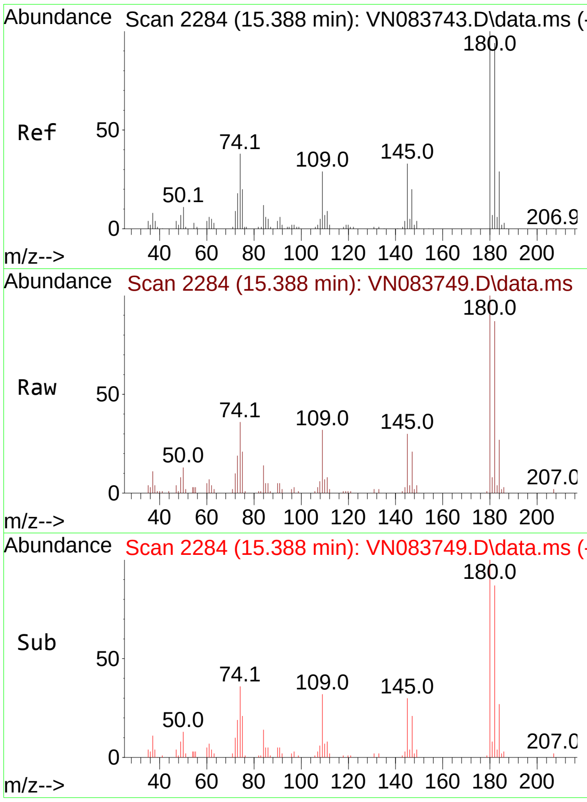


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.893 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion: 75 Resp: 11364

Ion	Ratio	Lower	Upper
75	100		
155	71.9	35.9	107.7
157	89.8	47.5	142.5

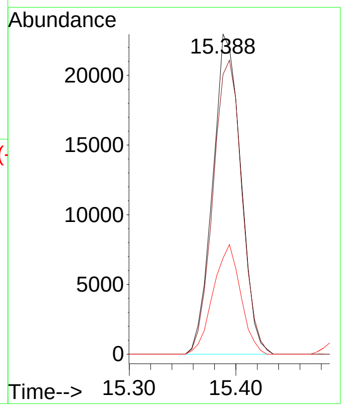




#93
1,2,4-Trichlorobenzene
Concen: 19.228 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

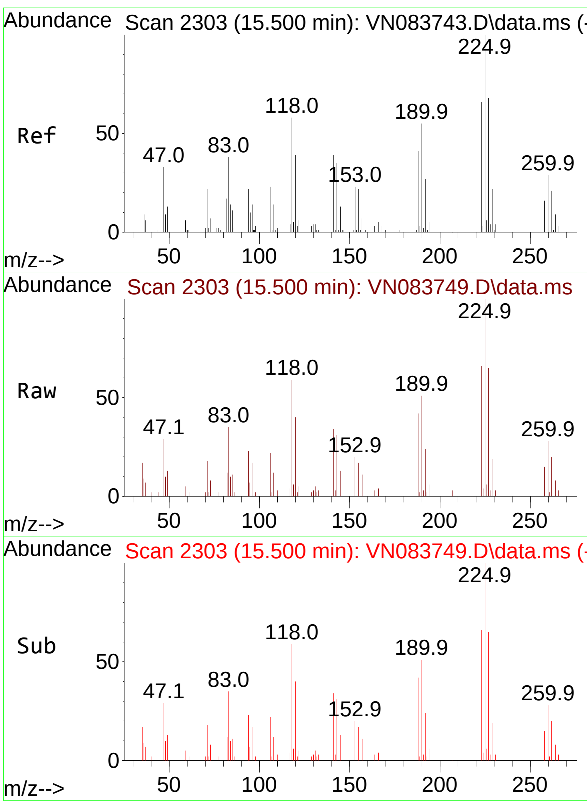
Tgt Ion:180 Resp: 42008

Ion	Ratio	Lower	Upper
180	100		
182	94.2	48.1	144.3
145	33.4	16.9	50.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

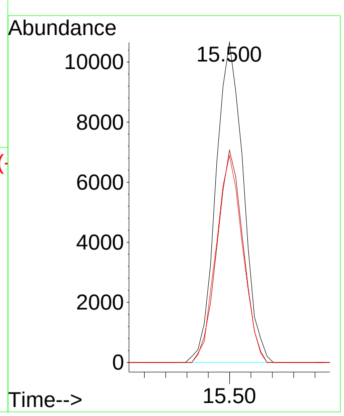
Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

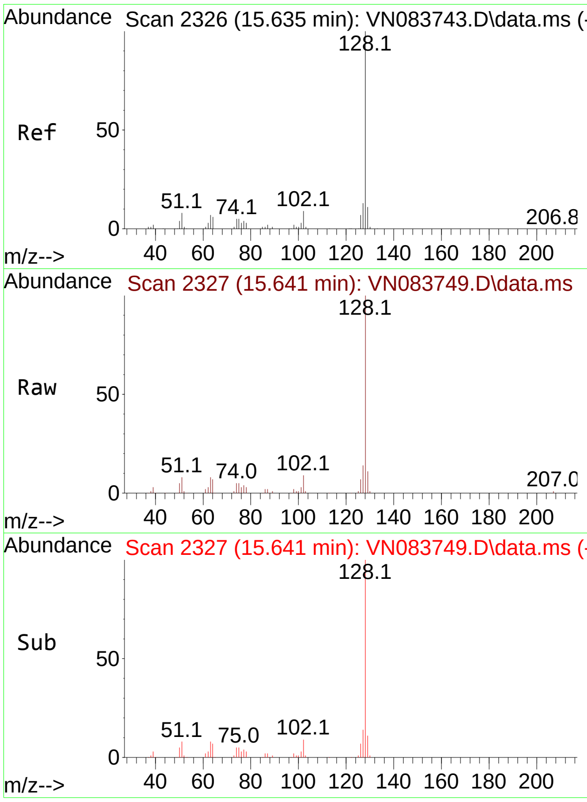


#94
Hexachlorobutadiene
Concen: 20.528 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:225 Resp: 19047

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.9	95.5
227	62.5	32.0	96.2

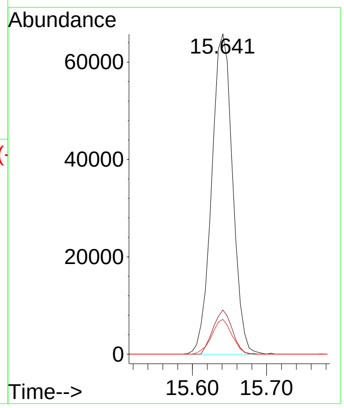




#95
Naphthalene
Concen: 19.401 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:128 Resp: 12895

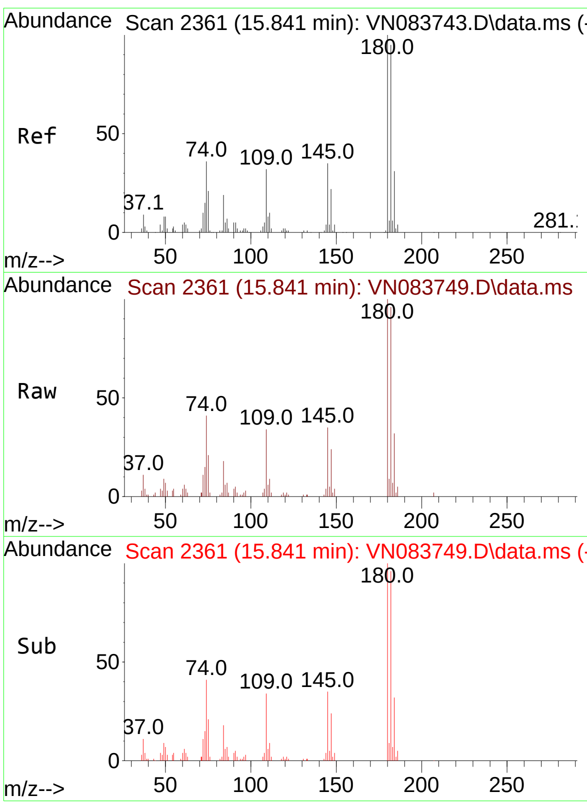
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.6	8.7	13.1



Instrument : MSVOA_N
ClientSampleId : VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

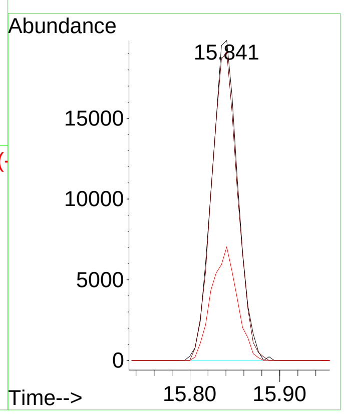
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#96
1,2,3-Trichlorobenzene
Concen: 19.317 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083749.D
Acq: 10 Sep 2024 12:43

Tgt Ion:180 Resp: 40335

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.1	141.4
145	34.7	17.8	53.5



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	166715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	279593	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	251259	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	124781	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123469	49.116	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.240%			
35) Dibromofluoromethane	8.159	113	89241	49.858	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.720%			
50) Toluene-d8	10.565	98	327030	52.850	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.700%			
62) 4-Bromofluorobenzene	12.847	95	128312	50.260	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	102269	52.821	ug/l	96
3) Chloromethane	2.359	50	103182	52.272	ug/l	93
4) Vinyl Chloride	2.512	62	105842	49.874	ug/l	99
5) Bromomethane	2.901	94	59692	48.990	ug/l	98
6) Chloroethane	3.077	64	70920	47.641	ug/l	99
7) Trichlorofluoromethane	3.477	101	180010	49.971	ug/l	97
8) Diethyl Ether	3.953	74	61593	51.008	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	98415	51.544	ug/l	98
10) Methyl Iodide	4.577	142	126109	51.932	ug/l	97
11) Tert butyl alcohol	5.530	59	83810	248.972	ug/l	100
12) 1,1-Dichloroethene	4.330	96	92652	51.382	ug/l	98
13) Acrolein	4.171	56	73660	221.776	ug/l	99
14) Allyl chloride	5.012	41	164420	51.173	ug/l	98
15) Acrylonitrile	5.712	53	231624	253.015	ug/l	99
16) Acetone	4.424	43	253986	252.037	ug/l	98
17) Carbon Disulfide	4.700	76	246645	48.898	ug/l	100
18) Methyl Acetate	5.024	43	110366	52.663	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	329011	50.422	ug/l	99
20) Methylene Chloride	5.271	84	99954	48.470	ug/l	93
21) trans-1,2-Dichloroethene	5.777	96	94729	49.020	ug/l	97
22) Diisopropyl ether	6.671	45	339994	51.404	ug/l	97
23) Vinyl Acetate	6.600	43	1293827	267.118	ug/l	99
24) 1,1-Dichloroethane	6.559	63	187715	49.262	ug/l	99
25) 2-Butanone	7.477	43	338271	255.394	ug/l	98
26) 2,2-Dichloropropane	7.489	77	181899	51.834	ug/l	100
27) cis-1,2-Dichloroethene	7.489	96	115321	50.270	ug/l	98
28) Bromochloromethane	7.806	49	83573	52.080	ug/l	97
29) Tetrahydrofuran	7.836	42	204115	260.627	ug/l	99
30) Chloroform	7.965	83	202830	50.138	ug/l	94
31) Cyclohexane	8.253	56	173023	47.623	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	187174	50.318	ug/l	99
36) 1,1-Dichloropropene	8.365	75	139150	51.650	ug/l	99
37) Ethyl Acetate	7.553	43	134383	54.953	ug/l	99
38) Carbon Tetrachloride	8.359	117	163561	53.514	ug/l	99
39) Methylcyclohexane	9.600	83	169844	55.386	ug/l	98
40) Benzene	8.600	78	425950	52.529	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	78230	54.088 ug/l	99
42) 1,2-Dichloroethane	8.671	62	159957	52.791 ug/l	100
43) Isopropyl Acetate	8.688	43	235666	53.180 ug/l	97
44) Trichloroethene	9.347	130	97854	52.111 ug/l	95
45) 1,2-Dichloropropane	9.618	63	103105	52.608 ug/l	96
46) Dibromomethane	9.706	93	73906	53.838 ug/l	98
47) Bromodichloromethane	9.883	83	157512	53.018 ug/l	96
48) Methyl methacrylate	9.683	41	116089	55.216 ug/l	97
49) 1,4-Dioxane	9.694	88	36346	1050.868 ug/l #	98
51) 4-Methyl-2-Pentanone	10.447	43	658160	272.839 ug/l	99
52) Toluene	10.630	92	266506	53.732 ug/l	97
53) t-1,3-Dichloropropene	10.835	75	165901	55.091 ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	170616	53.937 ug/l	96
55) 1,1,2-Trichloroethane	11.018	97	98280	53.075 ug/l	99
56) Ethyl methacrylate	10.871	69	163284	57.314 ug/l	98
57) 1,3-Dichloropropane	11.159	76	169155	53.152 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	247009	240.626 ug/l	98
59) 2-Hexanone	11.194	43	502171	281.422 ug/l	98
60) Dibromochloromethane	11.359	129	114660	55.330 ug/l	99
61) 1,2-Dibromoethane	11.471	107	97924	53.026 ug/l	99
64) Tetrachloroethene	11.100	164	83365	49.891 ug/l	99
65) Chlorobenzene	11.888	112	277685	49.726 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	100138	51.726 ug/l	100
67) Ethyl Benzene	11.965	91	525097	52.932 ug/l	99
68) m/p-Xylenes	12.071	106	392558	106.586 ug/l	99
69) o-Xylene	12.394	106	190067	53.308 ug/l	99
70) Styrene	12.412	104	316306	54.056 ug/l	98
71) Bromoform	12.576	173	72274	55.401 ug/l #	99
73) Isopropylbenzene	12.694	105	502513	52.053 ug/l	100
74) N-amyl acetate	12.494	43	214365	52.045 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	136889	48.260 ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	119528m	48.674 ug/l	
77) Bromobenzene	12.976	156	111312	47.901 ug/l	99
78) n-propylbenzene	13.035	91	586056	52.176 ug/l	100
79) 2-Chlorotoluene	13.123	91	360422	50.314 ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	424866	52.201 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	50495	52.525 ug/l	93
82) 4-Chlorotoluene	13.223	91	361895	50.343 ug/l	99
83) tert-Butylbenzene	13.435	119	371848	52.220 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	432216	52.865 ug/l	99
85) sec-Butylbenzene	13.618	105	507912	53.783 ug/l	100
86) p-Isopropyltoluene	13.729	119	427591	54.013 ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	214469	48.903 ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	212191	47.783 ug/l	99
89) n-Butylbenzene	14.053	91	371682	52.293 ug/l	100
90) Hexachloroethane	14.335	117	81433	51.172 ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	208015	49.147 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	29799	52.701 ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	112159	49.382 ug/l	98
94) Hexachlorobutadiene	15.500	225	47012	48.740 ug/l	99
95) Naphthalene	15.641	128	356695	51.621 ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	105270	48.497 ug/l	97

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

```
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Data File : VN083750.D
Acq On    : 10 Sep 2024  13:36
Operator  : JC\MD
Sample    : VSTDICV050
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title  : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

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

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
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Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
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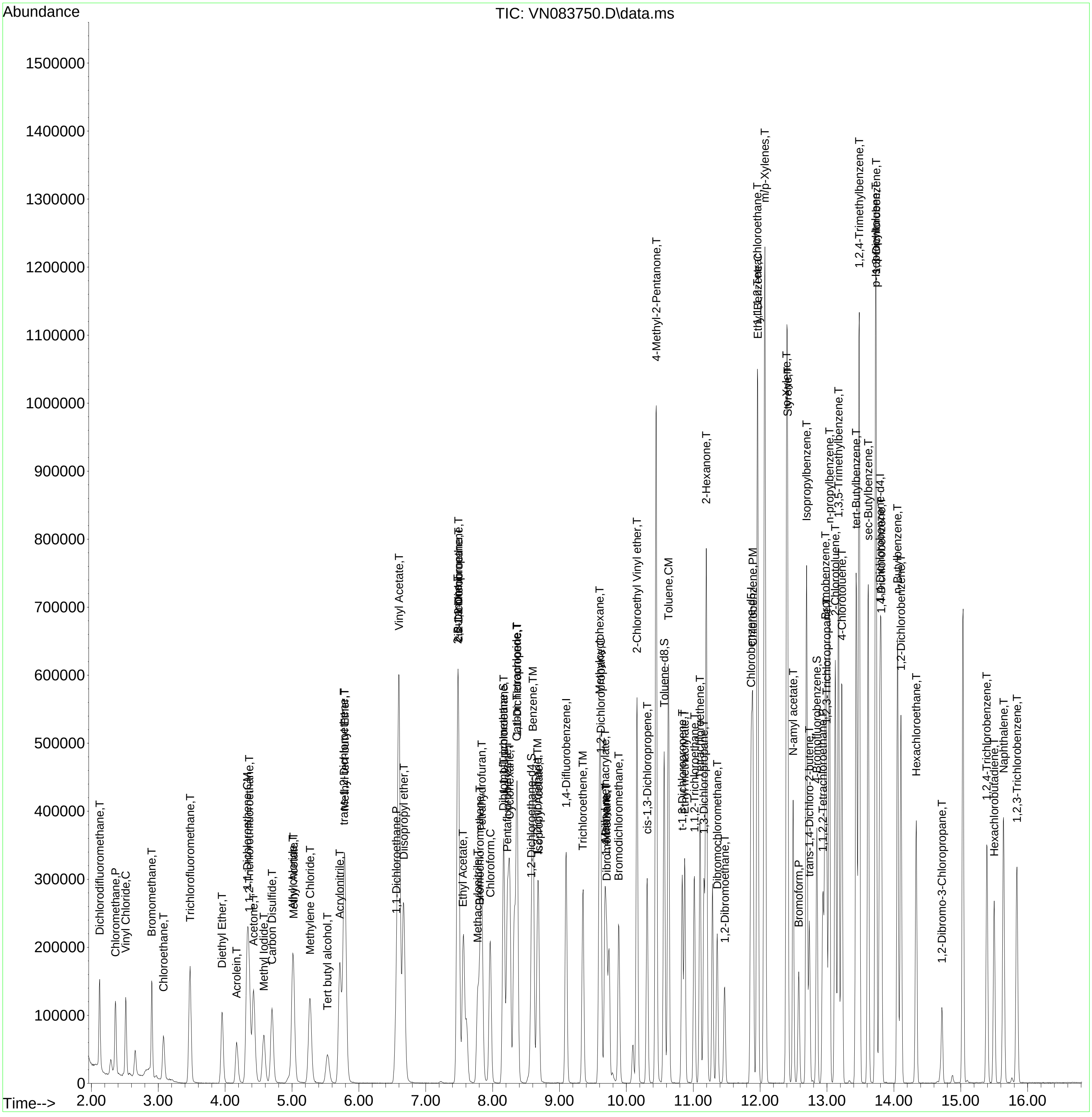
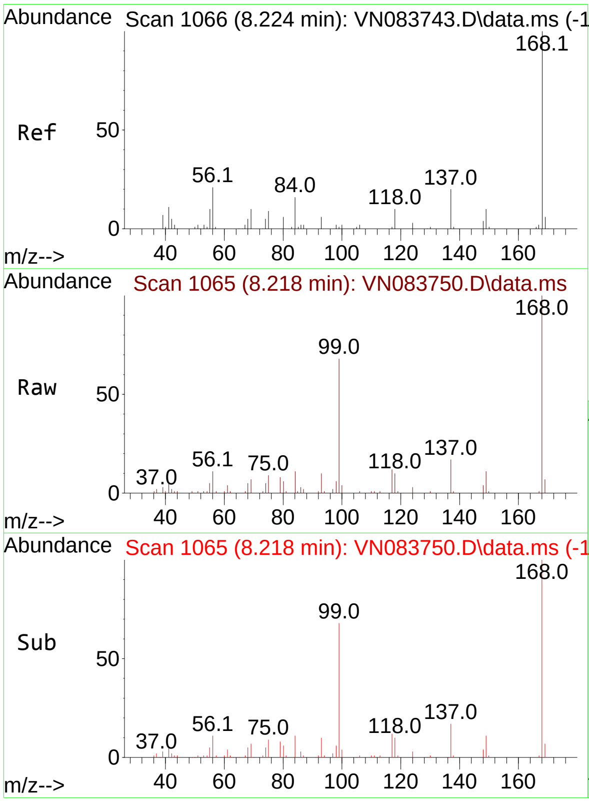




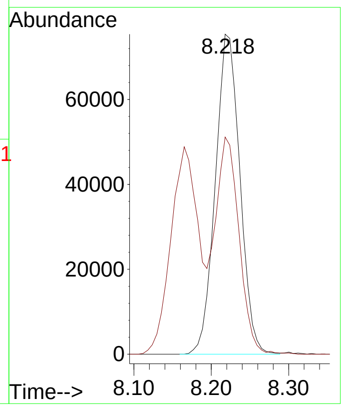
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

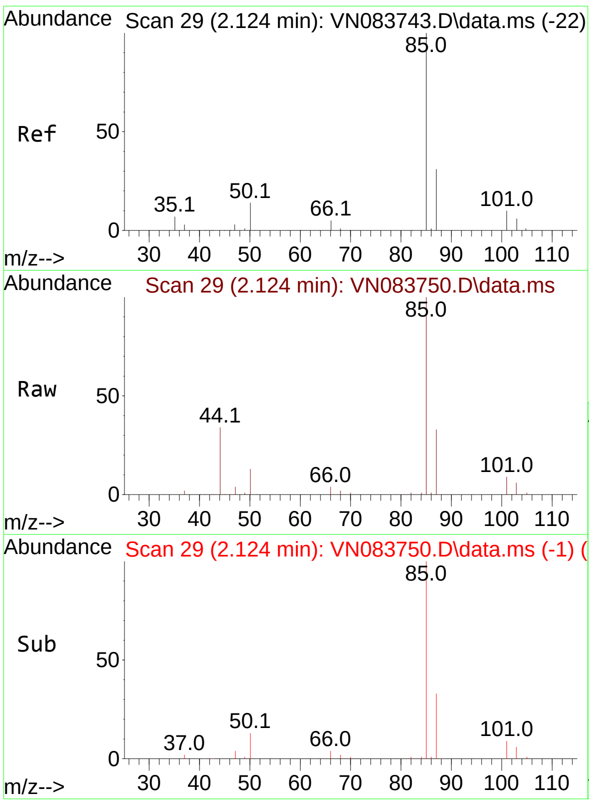
Tgt Ion:168 Resp: 16671!

Ion	Ratio	Lower	Upper
168	100		
99	67.5	54.2	81.2

Instrument : MSVOA_N
ClientSampleId : ICVVN091024

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

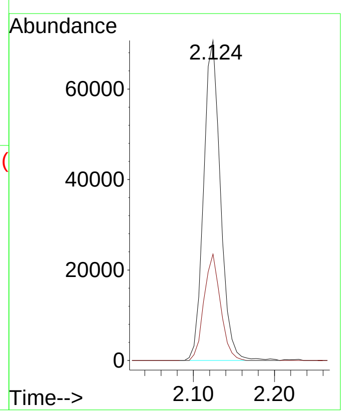




#2
Dichlorodifluoromethane
Concen: 52.821 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 85 Resp: 102269

Ion	Ratio	Lower	Upper
85	100		
87	33.3	15.7	47.0



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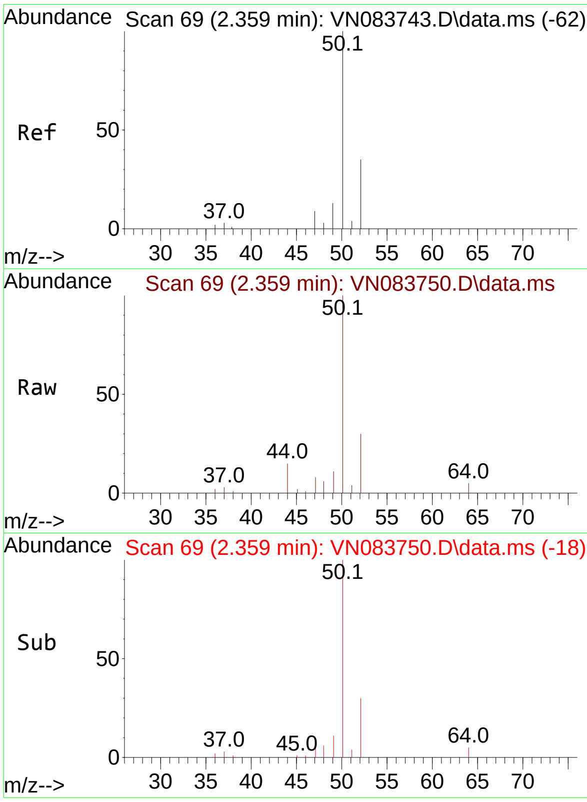

#3
Chloromethane
Concen: 52.272 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 50 Resp: 10318

Ion	Ratio	Lower	Upper
50	100		
52	30.2	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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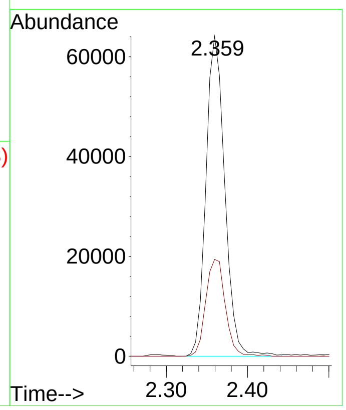
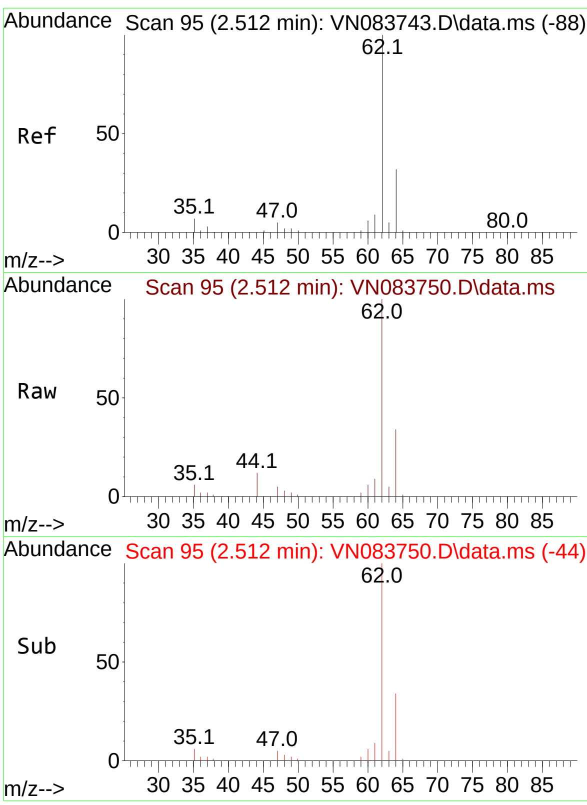
Supervised By :Semsettin Yesilyurt 09/11/2024

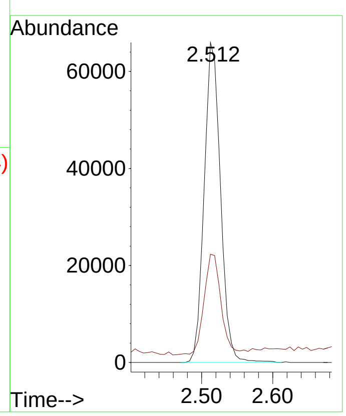


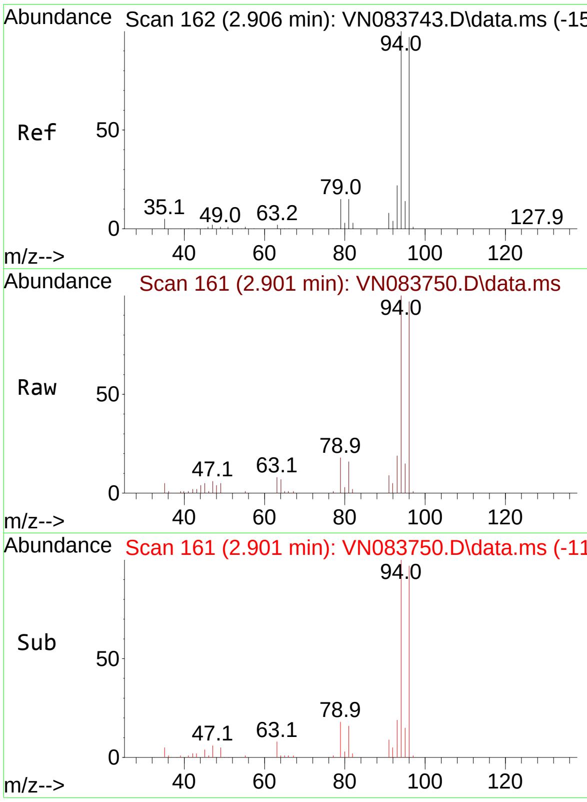


#4
Vinyl Chloride
Concen: 49.874 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 62 Resp: 105842

Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.7	37.1





#5
Bromomethane
Concen: 48.990 ug/l
RT: 2.901 min   Scan# 1(
Delta R.T.   -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024   13:36

Tgt Ion: 94 Resp: 5969

Ion	Ratio	Lower	Upper
94	100		
96	97.3	76.0	114.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations
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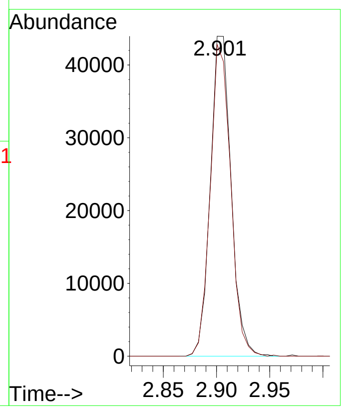
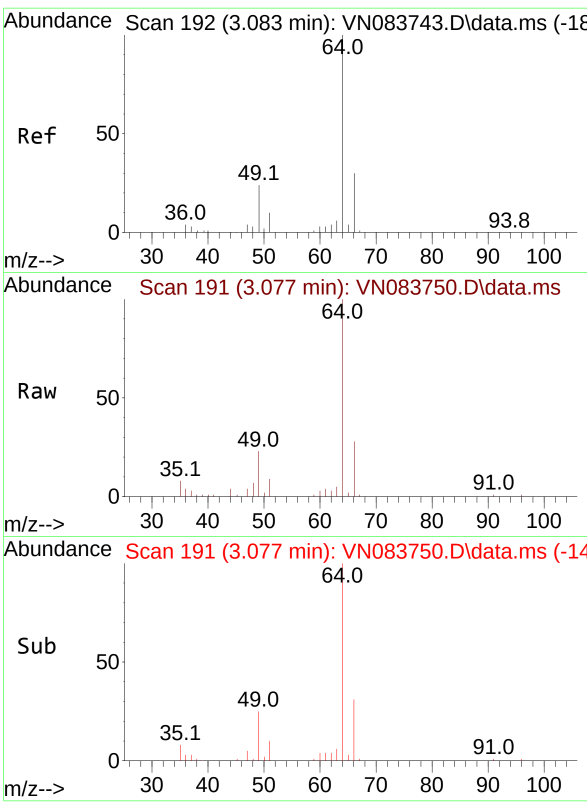
Reviewed By :John Carlone   09/11/2024
Supervised By :Semsettin Yesilyurt   09/11/2024

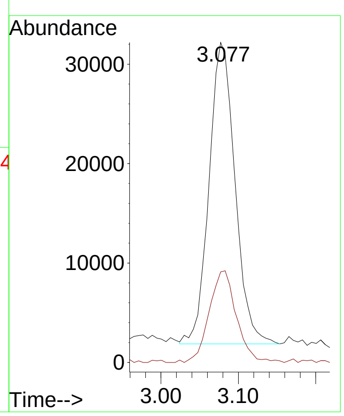




#6
Chloroethane
Concen: 47.641 ug/l
RT: 3.077 min   Scan# 191
Delta R.T.   -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024   13:36

Tgt Ion: 64 Resp: 70920

Ion	Ratio	Lower	Upper
64	100		
66	29.5	23.9	35.9

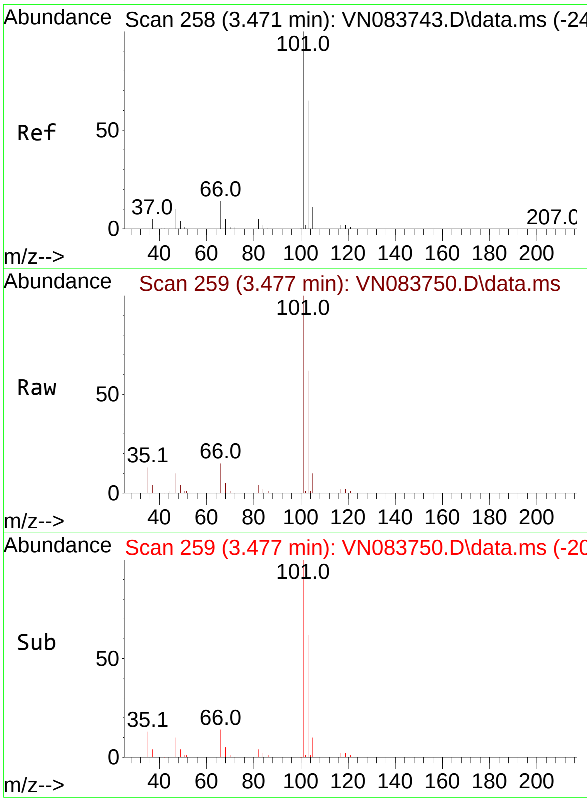


Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

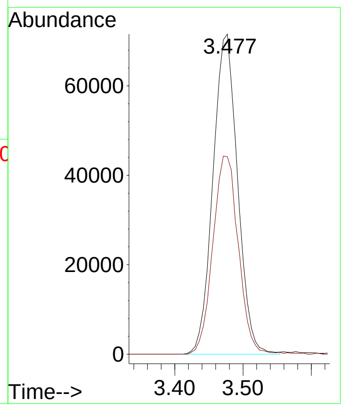
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

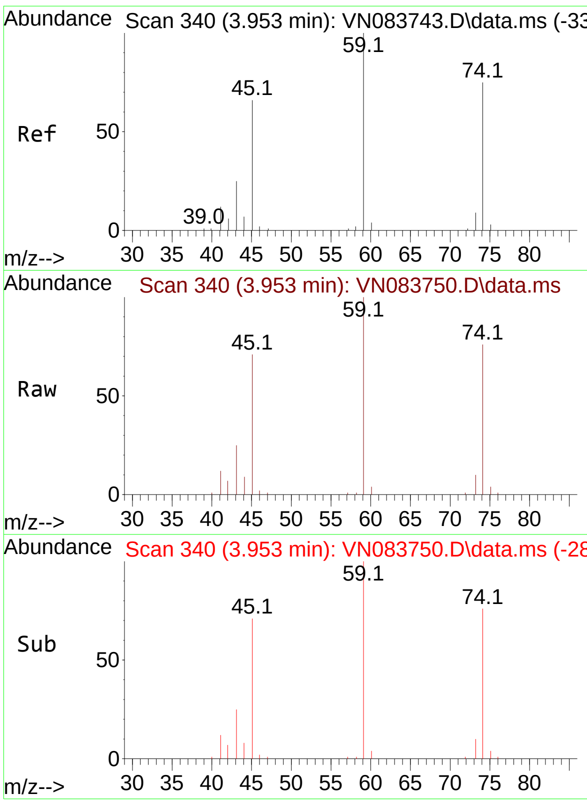


#7
Trichlorofluoromethane
Concen: 49.971 ug/l
RT: 3.477 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:101 Resp: 18001

Ion	Ratio	Lower	Upper
101	100		
103	61.7	51.4	77.0

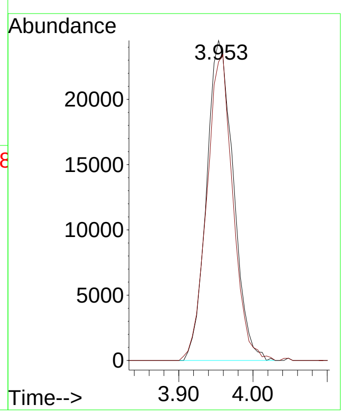


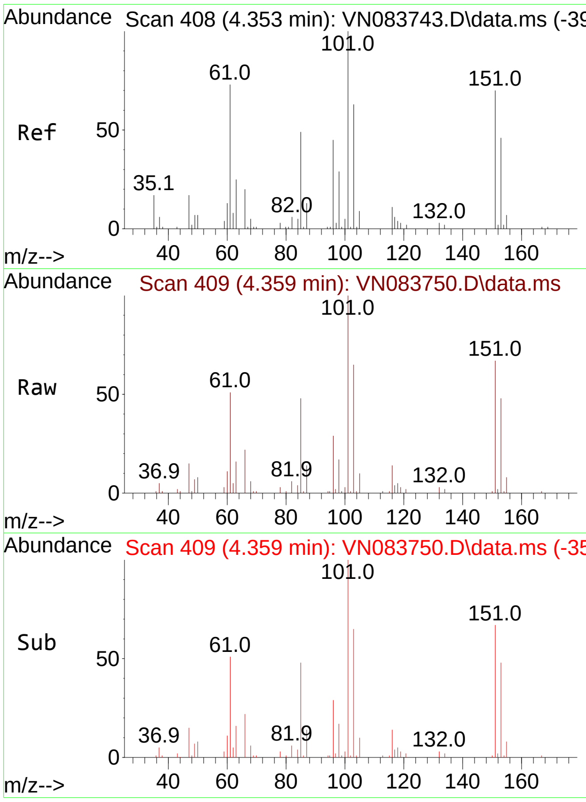


#8
Diethyl Ether
Concen: 51.008 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 74 Resp: 61593

Ion	Ratio	Lower	Upper
74	100		
45	93.1	46.7	140.1





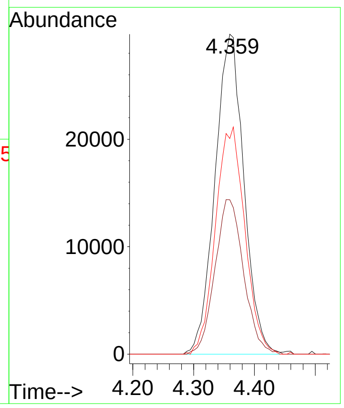
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.544 ug/l
RT: 4.359 min   Scan# 40
Delta R.T.   0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024   13:36

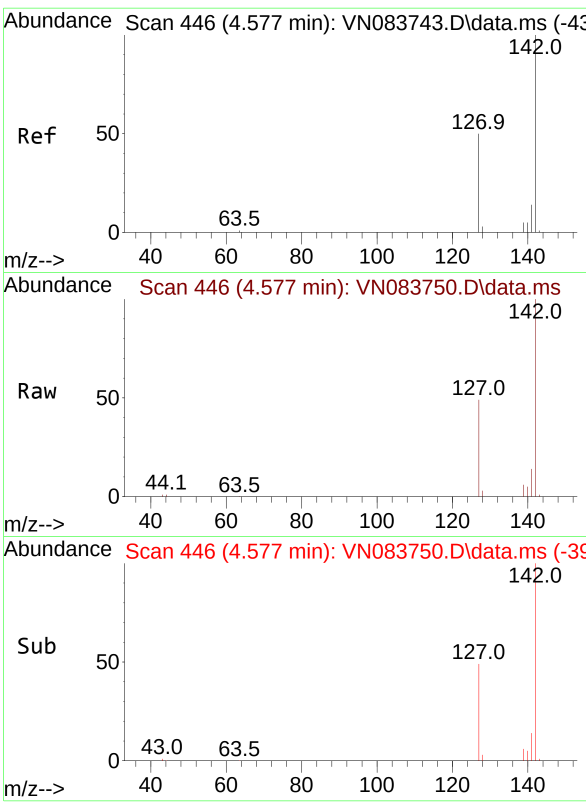
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations
APPROVED
Reviewed By :John Carlone   09/11/2024
Supervised By :Semsettin Yesilyurt   09/11/2024

Tgt Ion:101 Resp: 9841

Ion	Ratio	Lower	Upper
101	100		
85	48.0	36.2	54.4
151	72.3	57.7	86.5

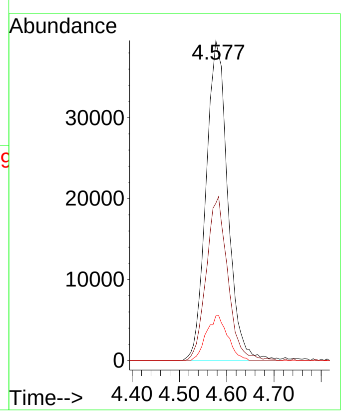


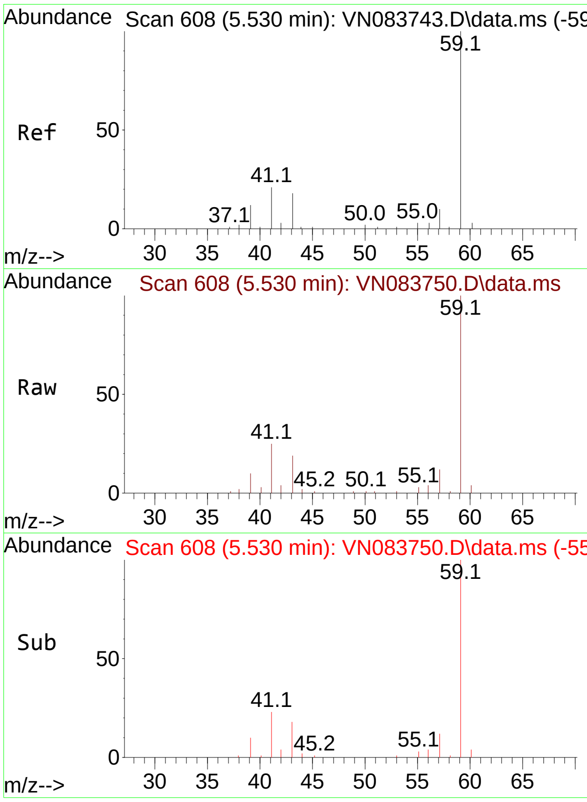


#10
Methyl Iodide
Concen: 51.932 ug/l
RT: 4.577 min   Scan# 446
Delta R.T.   0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024   13:36

Tgt Ion:142 Resp: 126109

Ion	Ratio	Lower	Upper
142	100		
127	49.1	37.5	56.3
141	13.9	11.0	16.4





#11
Tert butyl alcohol
Concen: 248.972 ug/l
RT: 5.530 min Scan# 60
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 59 Resp: 83810

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.7	13.1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations
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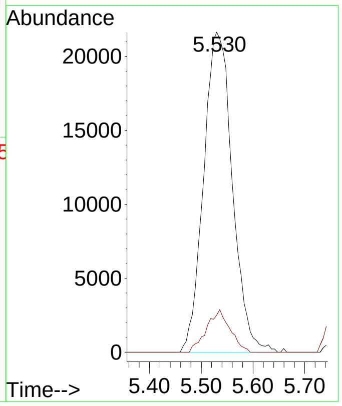
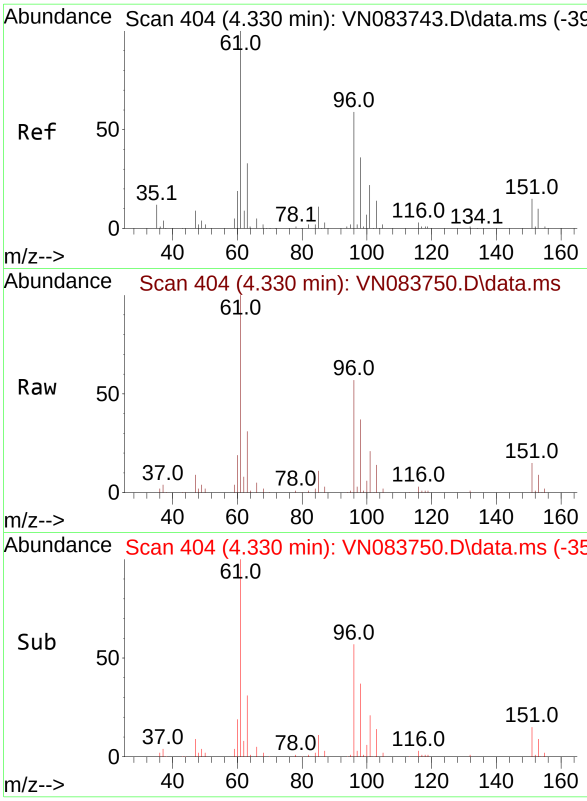
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

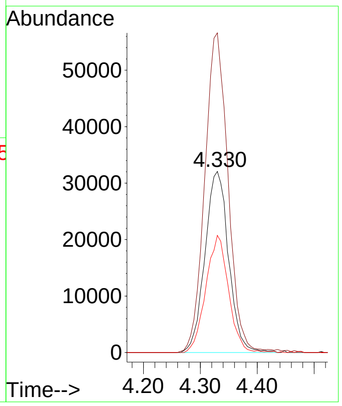


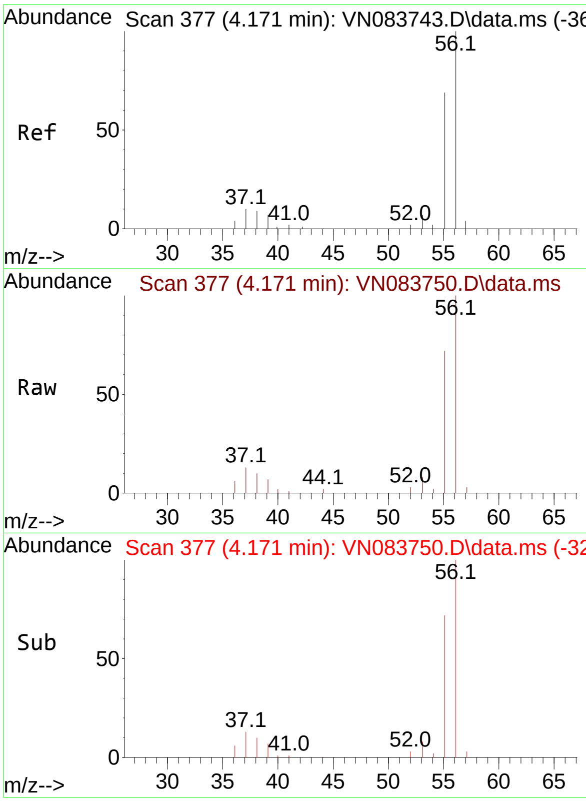


#12
1,1-Dichloroethene
Concen: 51.382 ug/l
RT: 4.330 min Scan# 404
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 96 Resp: 92652

Ion	Ratio	Lower	Upper
96	100		
61	176.5	143.4	215.0
98	64.7	52.7	79.1






```
#13
Acrolein
Concen:  221.776 ug/l
RT:   4.171 min  Scan# 3
Delta R.T.  0.000 min
Lab File:   VN083750.D
Acq: 10 Sep 2024  13:36

Tgt Ion: 56 Resp:   7366
Ion  Ratio  Lower  Upper
 56  100
 55   71.7   58.2   87.2
```

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations APPROVED

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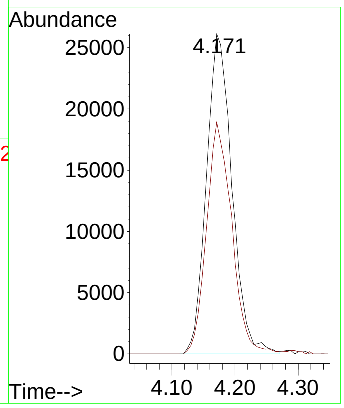
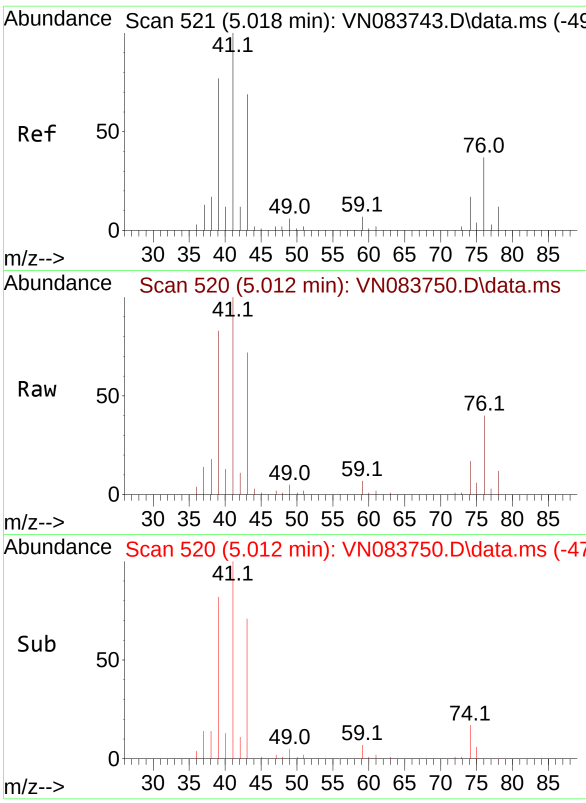
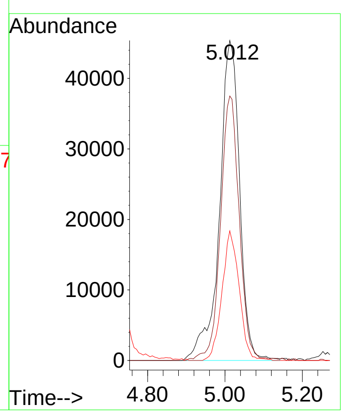





```
#14
Allyl chloride
Concen:   51.173 ug/l
RT:   5.012 min  Scan# 520
Delta R.T.  -0.006 min
Lab File:   VN083750.D
Acq: 10 Sep 2024  13:36

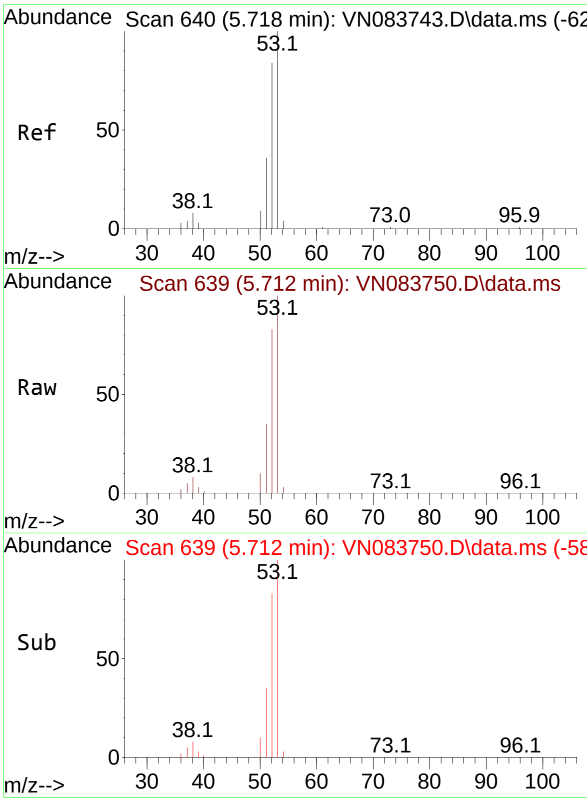
Tgt Ion: 41 Resp:  164420
Ion  Ratio  Lower  Upper
 41  100
 39   76.8   59.3   88.9
 76   34.5   27.7   41.5
```



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

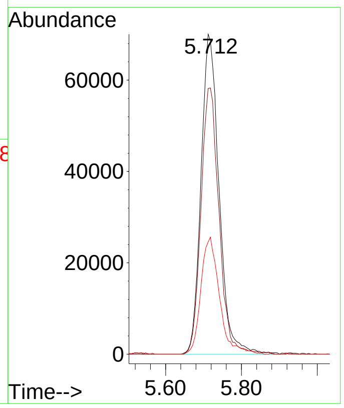
Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

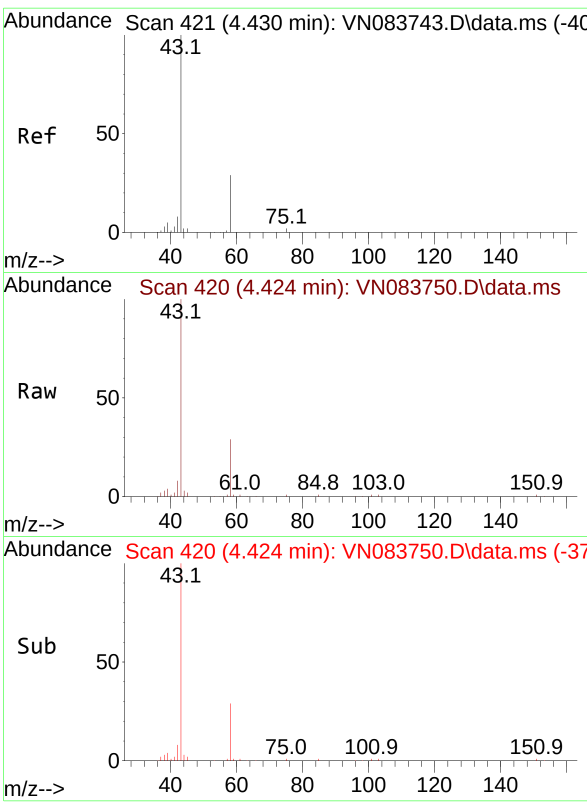


#15
Acrylonitrile
Concen: 253.015 ug/l
RT: 5.712 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 53 Resp: 231624

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.1	99.1
51	37.6	29.6	44.4

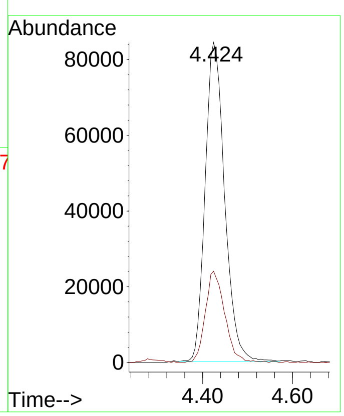




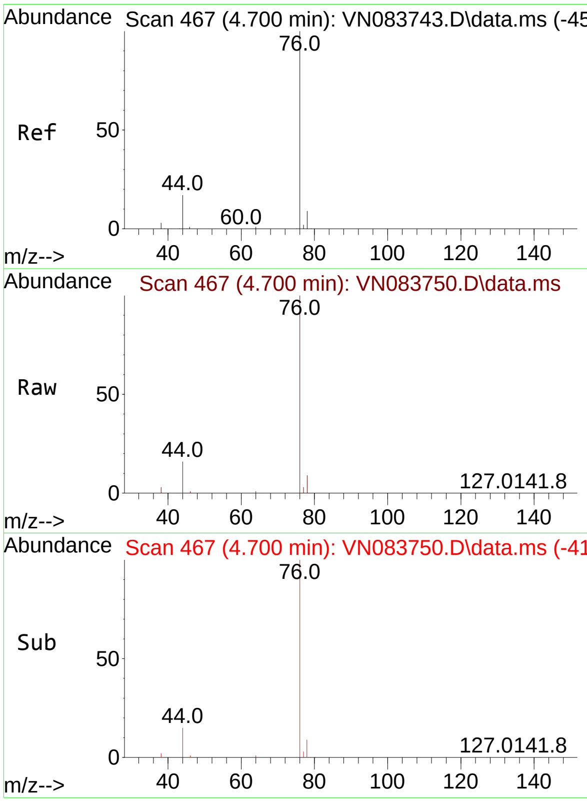
#16
Acetone
Concen: 252.037 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 43 Resp: 253986

Ion	Ratio	Lower	Upper
43	100		
58	28.6	23.7	35.5



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#17
Carbon Disulfide
Concen: 48.898 ug/l
RT: 4.700 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 76 Resp: 24664

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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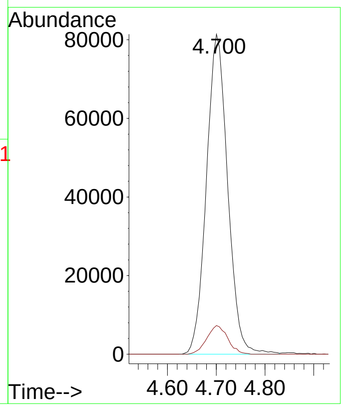
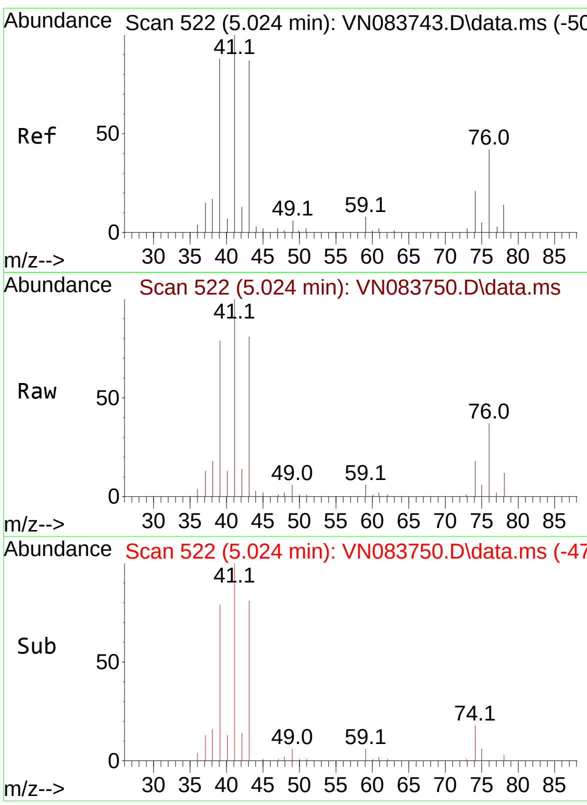
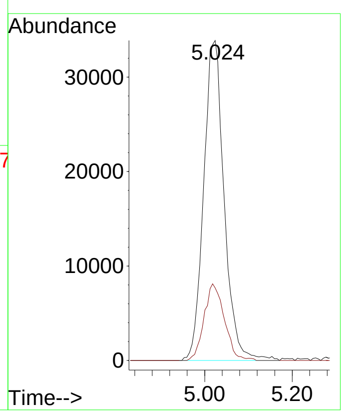




#18
Methyl Acetate
Concen: 52.663 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 43 Resp: 110366

Ion	Ratio	Lower	Upper
43	100		
74	23.8	19.0	28.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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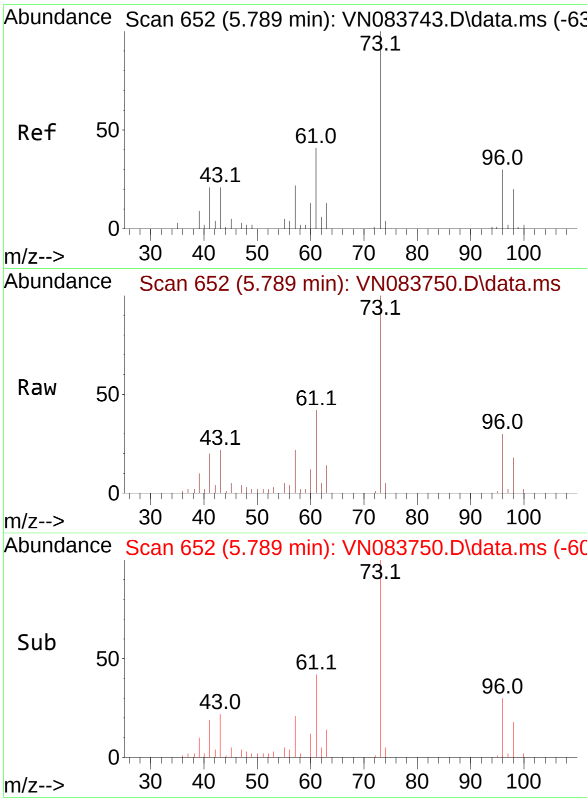
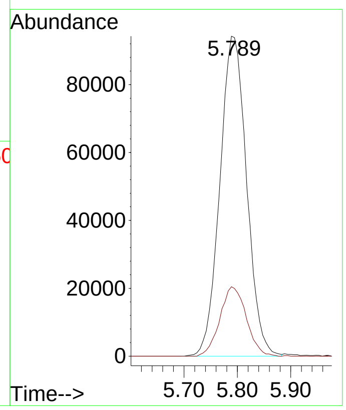
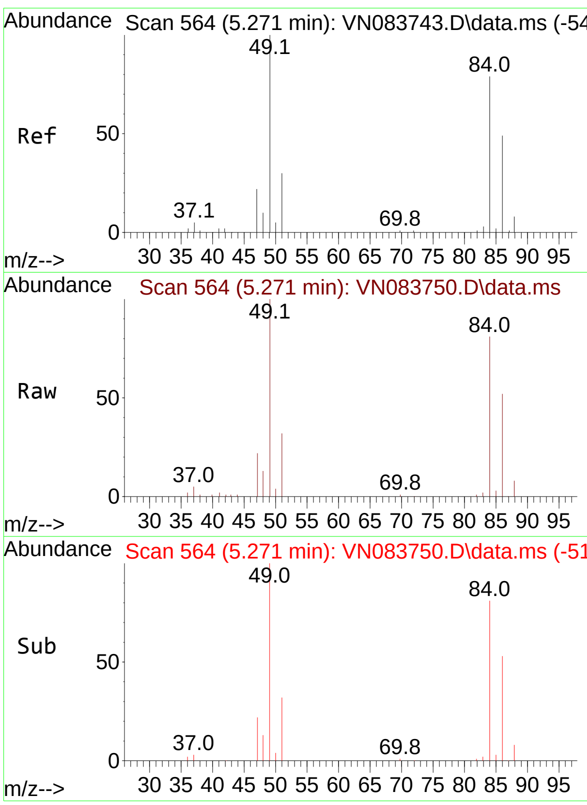


#19
Methyl tert-butyl Ether
Concen: 50.422 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 73 Resp: 32901

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.0	25.6

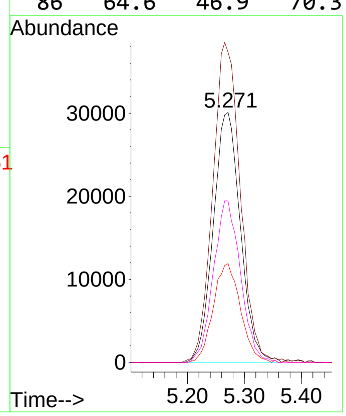




#20
Methylene Chloride
Concen: 48.470 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 84 Resp: 99954

Ion	Ratio	Lower	Upper
84	100		
49	124.0	93.4	140.0
51	39.6	29.2	43.8
86	64.6	46.9	70.3



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument : MSVOA_N
ClientSampleId : ICVVN091024

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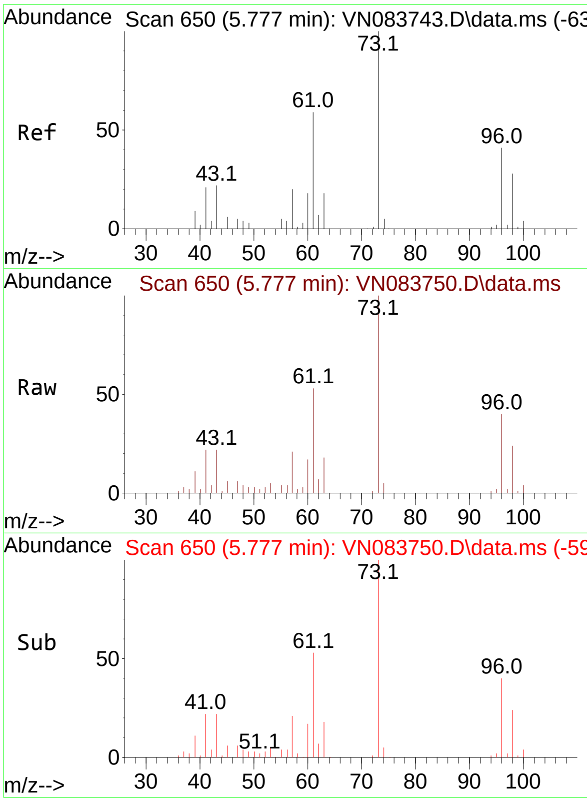
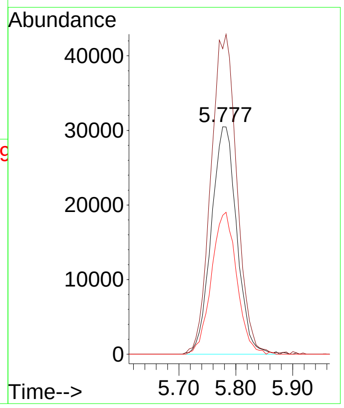
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

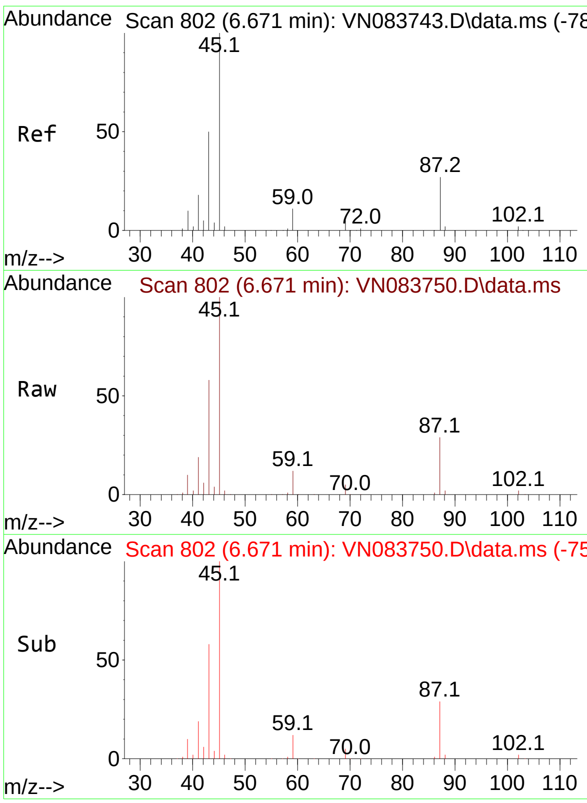


#21
trans-1,2-Dichloroethene
Concen: 49.020 ug/l
RT: 5.777 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 96 Resp: 9472

Ion	Ratio	Lower	Upper
96	100		
61	134.3	106.0	159.0
98	61.1	52.2	78.2

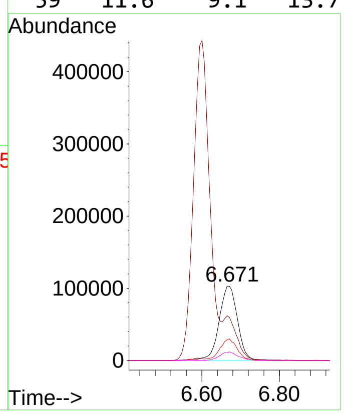




#22
Diisopropyl ether
Concen: 51.404 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 45 Resp: 339994

Ion	Ratio	Lower	Upper
45	100		
43	57.5	43.4	65.0
87	29.2	22.6	33.8
59	11.6	9.1	13.7



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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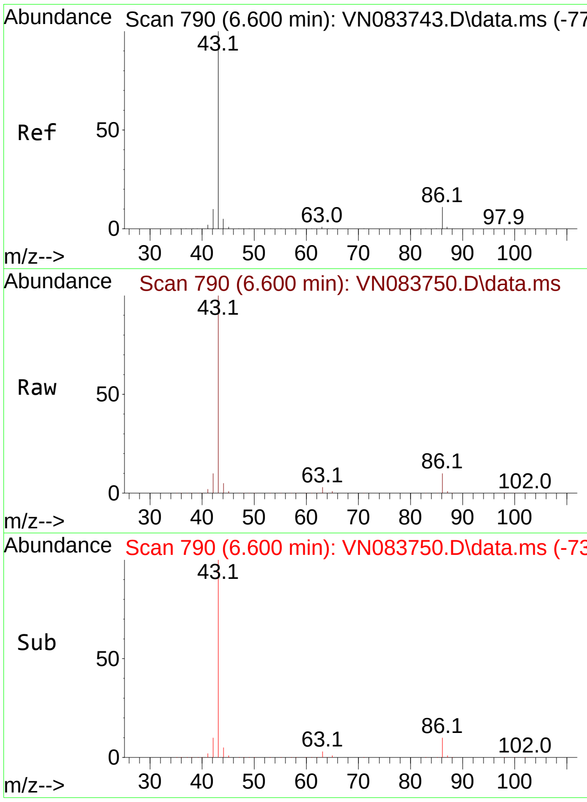
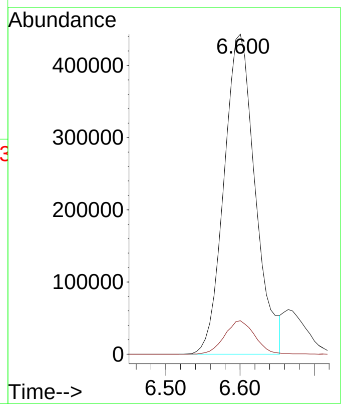
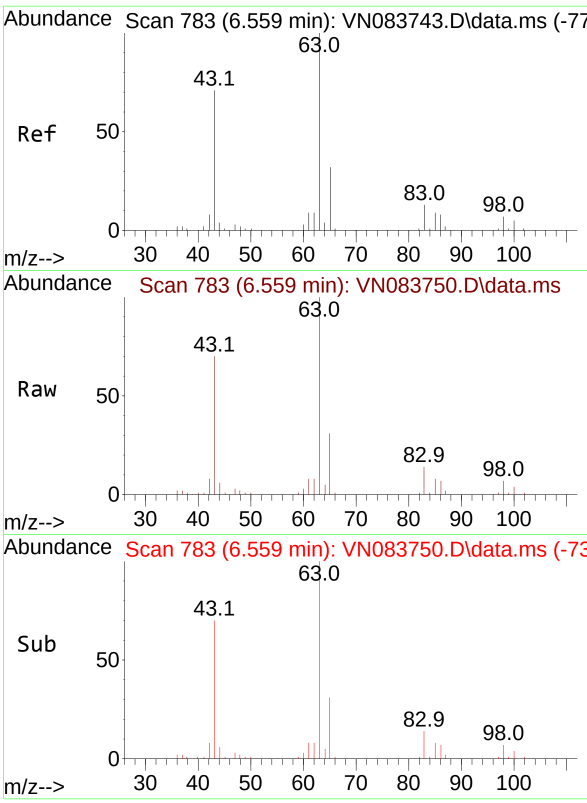
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#23
Vinyl Acetate
Concen:  267.118 ug/l
RT:   6.600 min  Scan# 79
Delta R.T.  0.000 min
Lab File:   VN083750.D
Acq: 10 Sep 2024  13:36

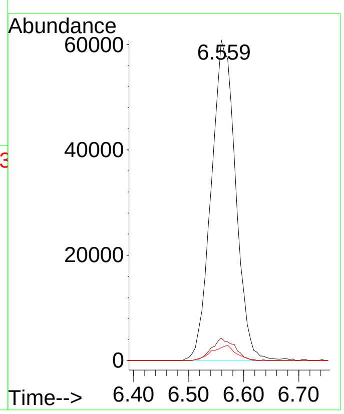
Tgt Ion: 43 Resp: 1293827
Ion  Ratio  Lower  Upper
 43  100
 86   10.4    8.7   13.1
```

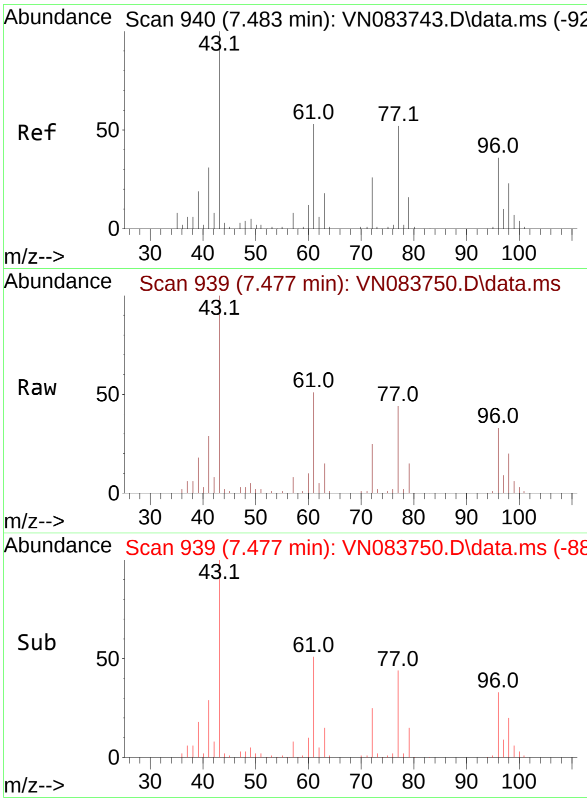





```
#24
1,1-Dichloroethane
Concen:   49.262 ug/l
RT:   6.559 min  Scan# 783
Delta R.T.  0.000 min
Lab File:   VN083750.D
Acq: 10 Sep 2024  13:36

Tgt Ion: 63 Resp:  187715
Ion  Ratio  Lower  Upper
 63  100
 98    7.0    3.5   10.4
100    4.0    2.5    7.5
```

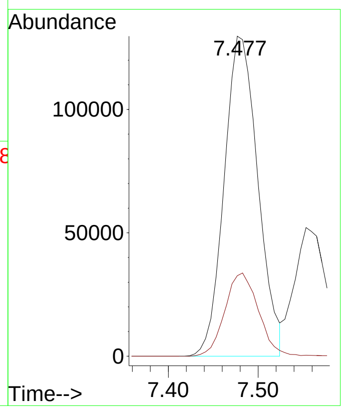




#25
2-Butanone
Concen: 255.394 ug/l
RT: 7.477 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 43 Resp: 33827

Ion	Ratio	Lower	Upper
43	100		
72	25.2	20.8	31.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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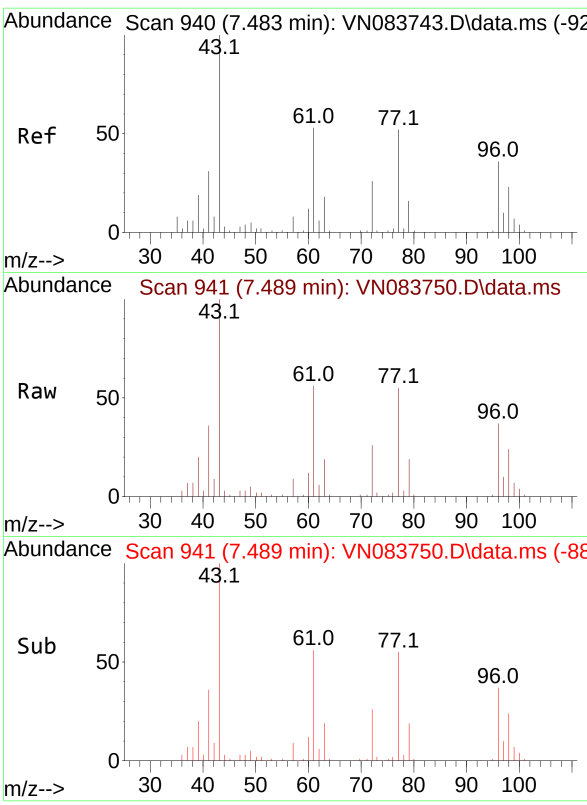
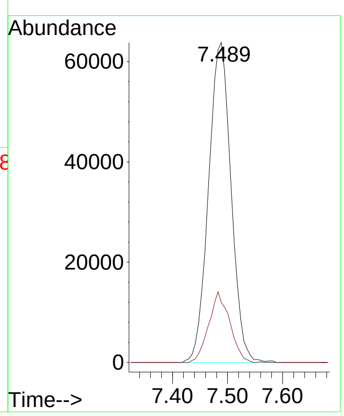


#26
2,2-Dichloropropane
Concen: 51.834 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 77 Resp: 181899

Ion	Ratio	Lower	Upper
77	100		
97	20.5	10.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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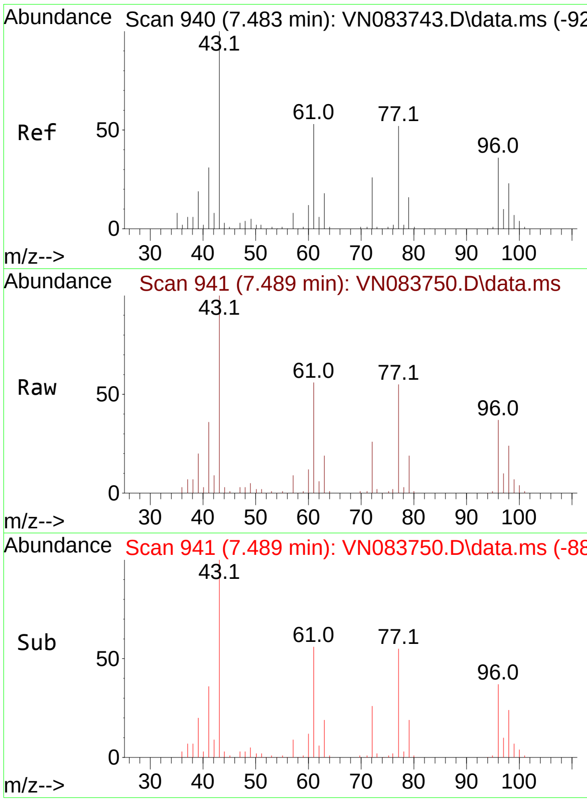
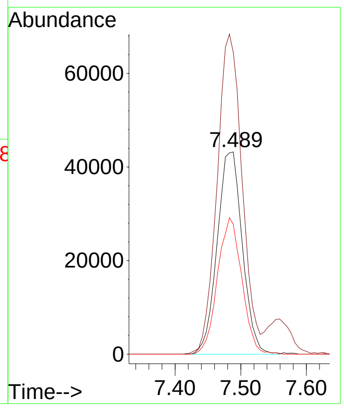
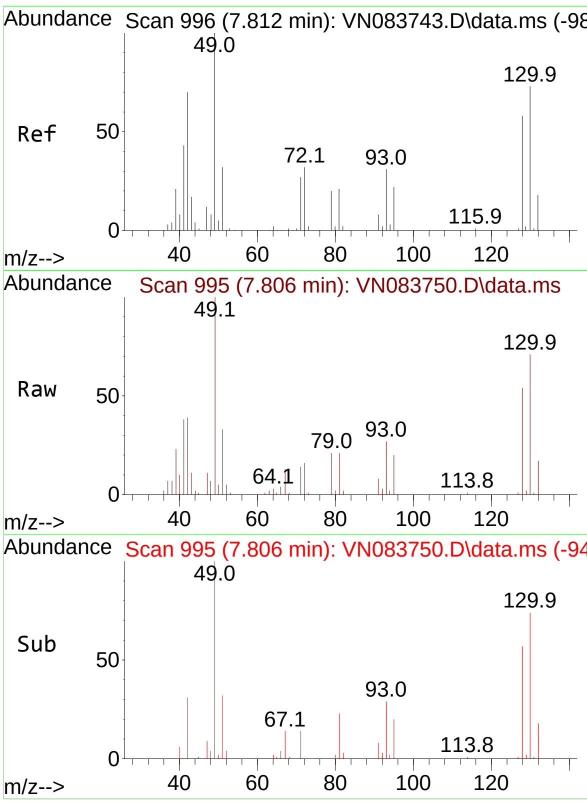



```
#27
cis-1,2-Dichloroethene
Concen:   50.270 ug/l
RT:   7.489 min   Scan# 94
Delta R.T.   0.006 min
Lab File:    VN083750.D
Acq: 10 Sep 2024   13:36

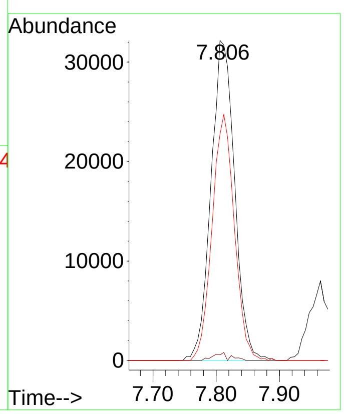
Tgt Ion: 96 Resp:   11532
Ion   Ratio   Lower   Upper
 96   100
 61   157.0     0.0   306.2
 98    65.0     0.0   128.6
```

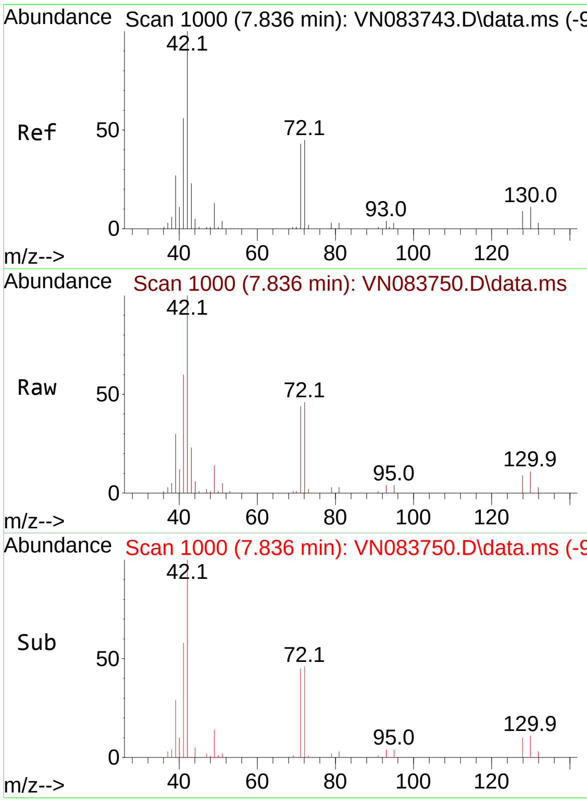





```
#28
Bromochloromethane
Concen:   52.080 ug/l
RT:   7.806 min   Scan# 995
Delta R.T.   -0.006 min
Lab File:    VN083750.D
Acq: 10 Sep 2024   13:36

Tgt Ion: 49 Resp:    83573
Ion   Ratio   Lower   Upper
 49   100
129     1.2     0.0     3.4
130    72.5    60.2    90.2
```





#29
Tetrahydrofuran
Concen: 260.627 ug/l
RT: 7.836 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 42 Resp: 20411!

Ion	Ratio	Lower	Upper
42	100		
72	44.2	35.9	53.9
71	41.7	33.9	50.9

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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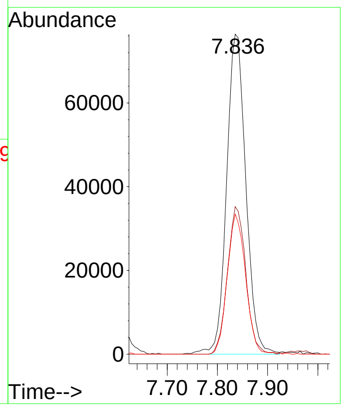
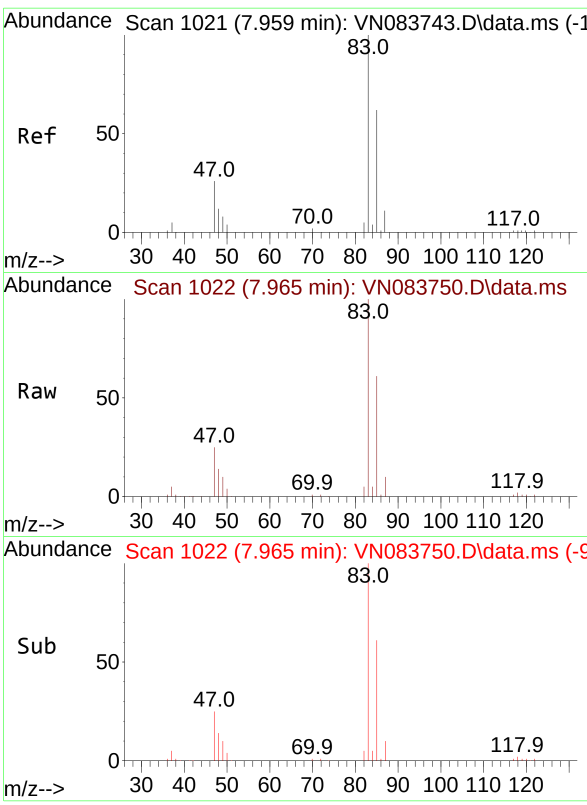
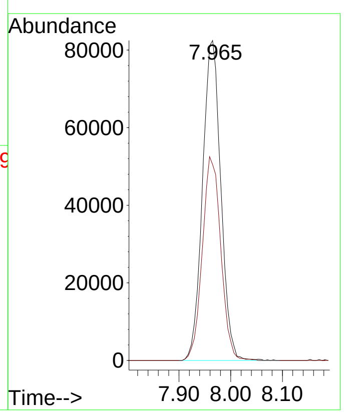




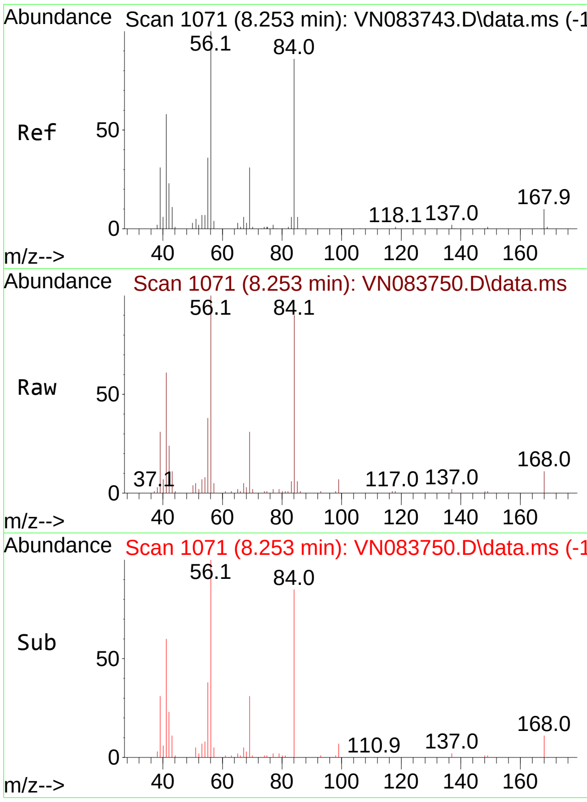
#30
Chloroform
Concen: 50.138 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 83 Resp: 202830

Ion	Ratio	Lower	Upper
83	100		
85	61.2	52.8	79.2



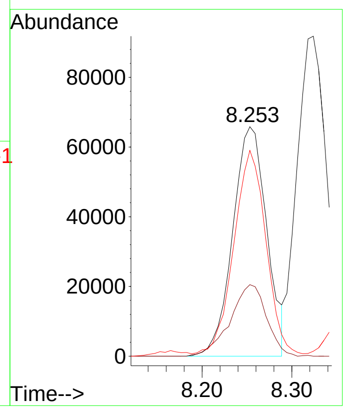
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#31
Cyclohexane
Concen: 47.623 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 56 Resp: 17302

Ion	Ratio	Lower	Upper
56	100		
69	31.2	26.9	40.3
84	88.2	69.2	103.8



Instrument :
MSVOA_N
ClientSampleId :
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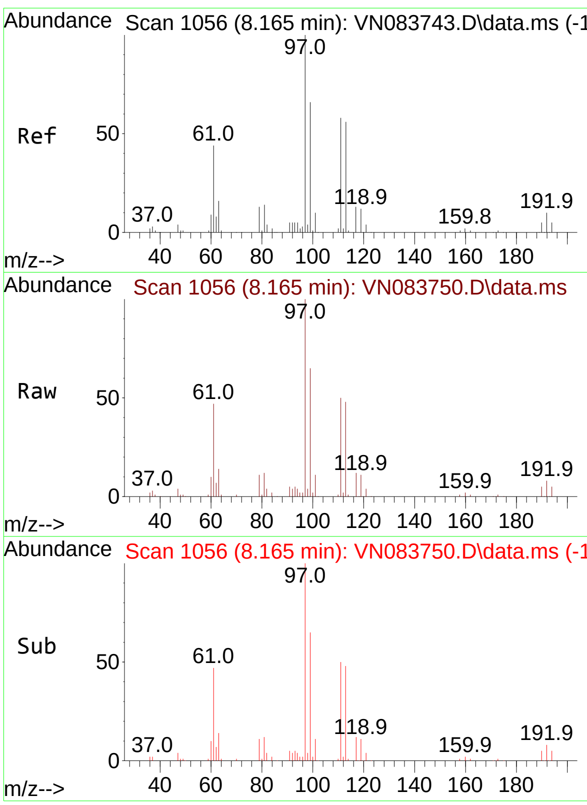
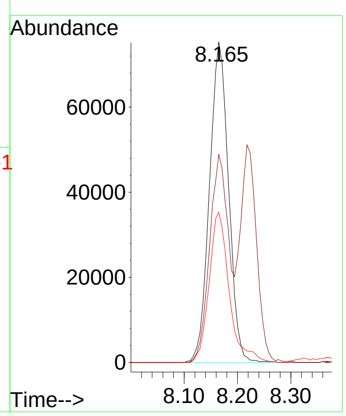
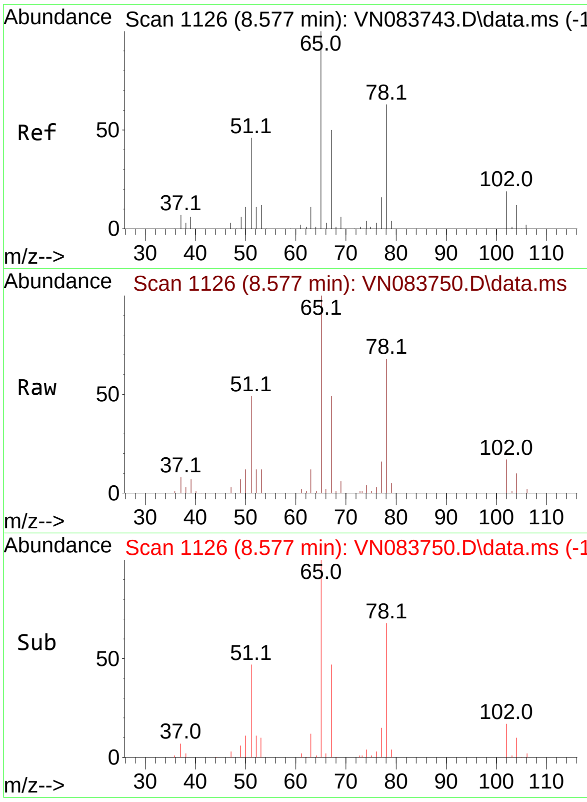


#32
1,1,1-Trichloroethane
Concen: 50.318 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 97 Resp: 187174

Ion	Ratio	Lower	Upper
97	100		
99	65.6	52.3	78.5
61	49.5	38.2	57.2





#33
1,2-Dichloroethane-d4
Concen: 49.116 ug/l
RT: 8.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Tgt Ion: 65 Resp: 12346

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	100.8

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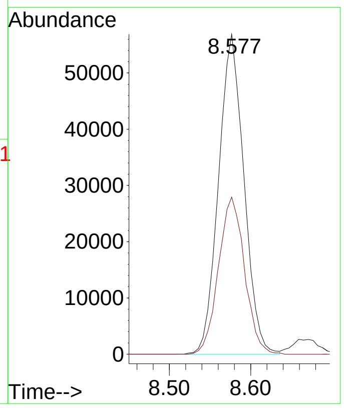
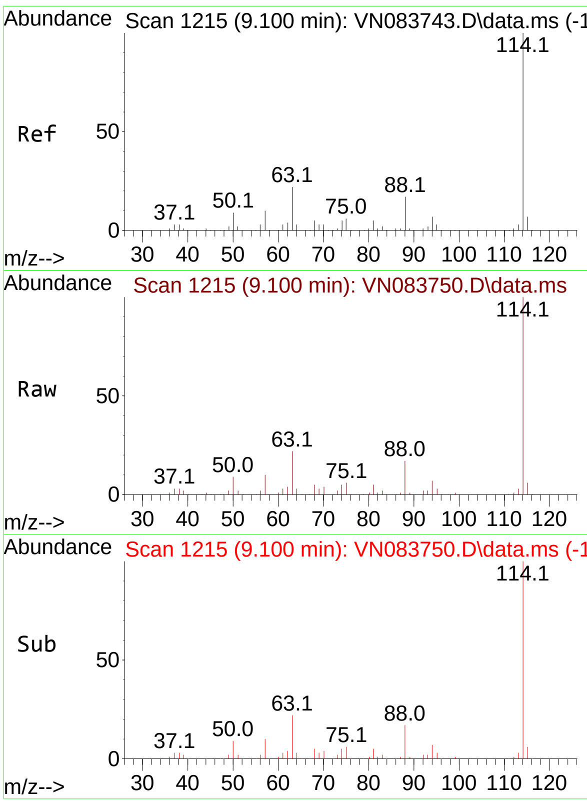
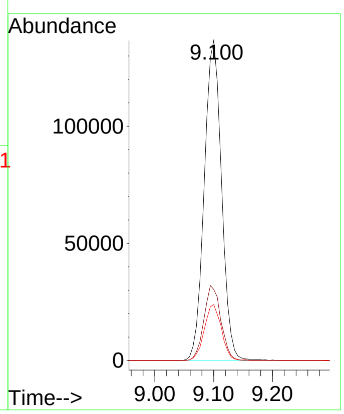




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:114 Resp: 279593

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	43.4
88	17.4	0.0	32.6



Instrument : MSVOA_N
ClientSampleId : ICVVN091024

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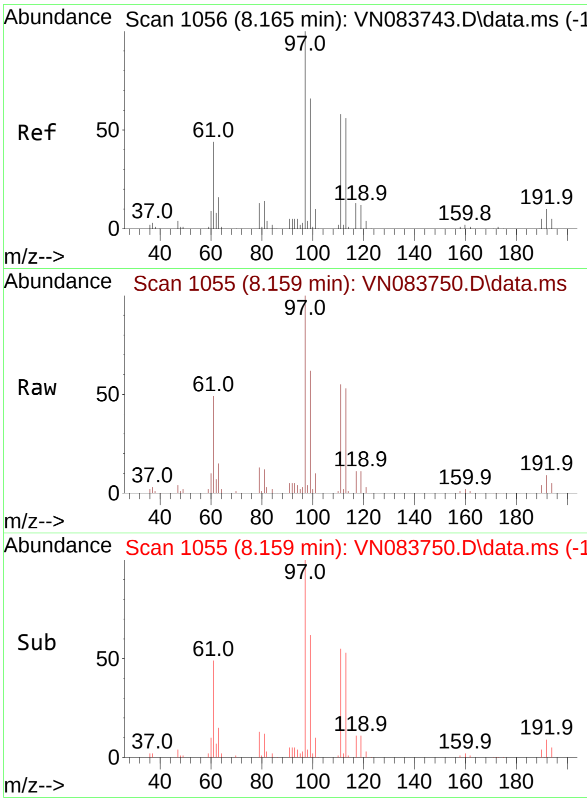
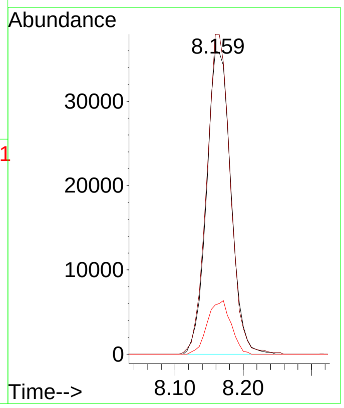
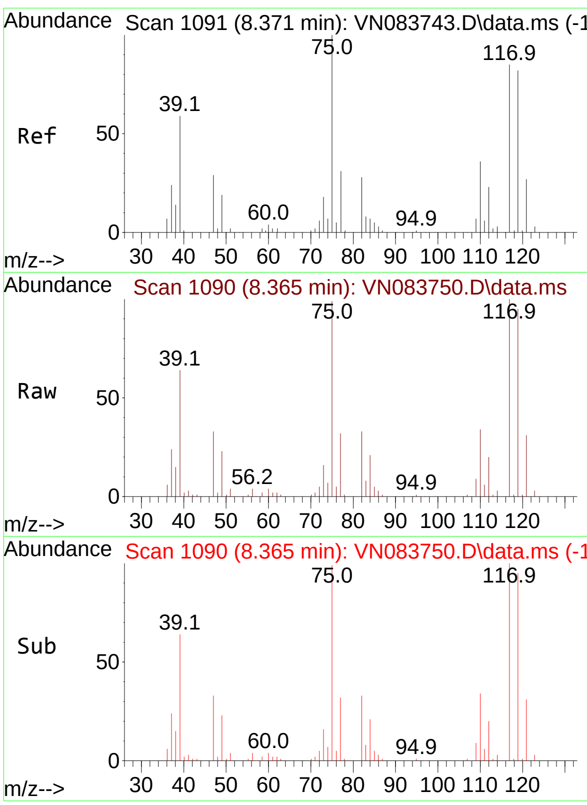



```
#35
Dibromofluoromethane
Concen:   49.858 ug/l
RT:   8.159 min   Scan# 10
Delta R.T.   -0.006 min
Lab File:    VN083750.D
Acq: 10 Sep 2024   13:36

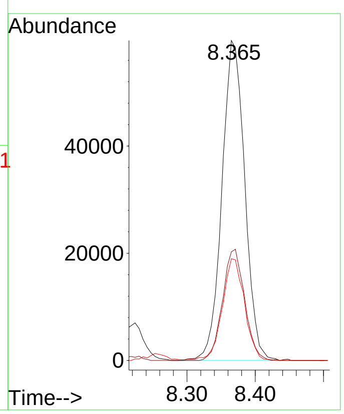
Tgt Ion:113 Resp:   89241
Ion   Ratio   Lower   Upper
113   100
111   102.8    82.6   124.0
192    17.1    14.3    21.5
```

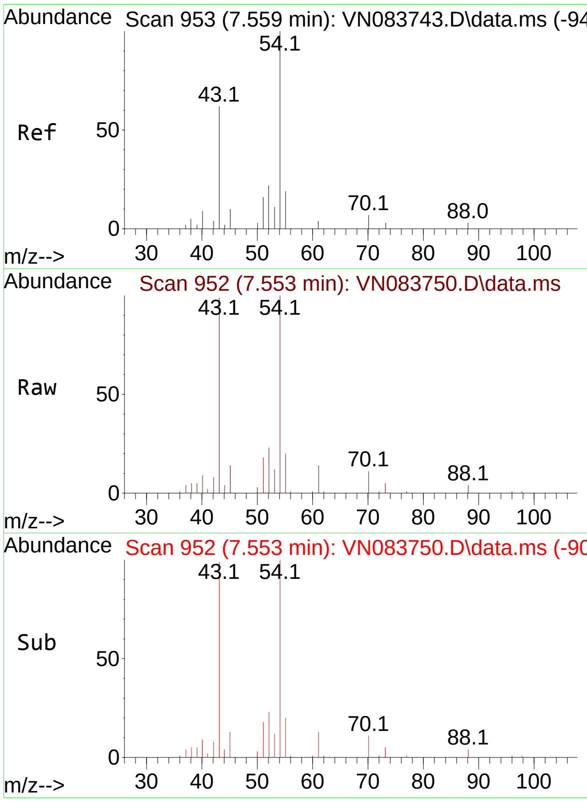





```
#36
1,1-Dichloropropene
Concen:   51.650 ug/l
RT:   8.365 min   Scan# 1090
Delta R.T.   -0.006 min
Lab File:    VN083750.D
Acq: 10 Sep 2024   13:36

Tgt Ion: 75 Resp:   139150
Ion   Ratio   Lower   Upper
 75   100
110    33.6    16.7    50.1
 77    31.0    25.2    37.8
```

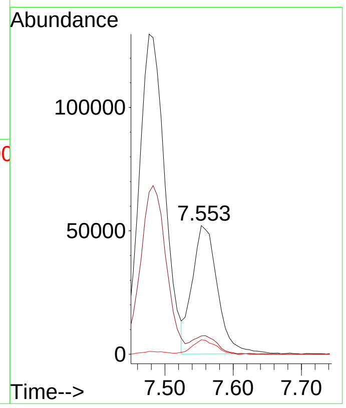




#37
Ethyl Acetate
Concen: 54.953 ug/l
RT: 7.553 min   Scan# 9
Delta R.T.   -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024   13:36

Tgt Ion: 43 Resp: 13438

Ion	Ratio	Lower	Upper
43	100		
61	13.4	11.1	16.7
70	10.4	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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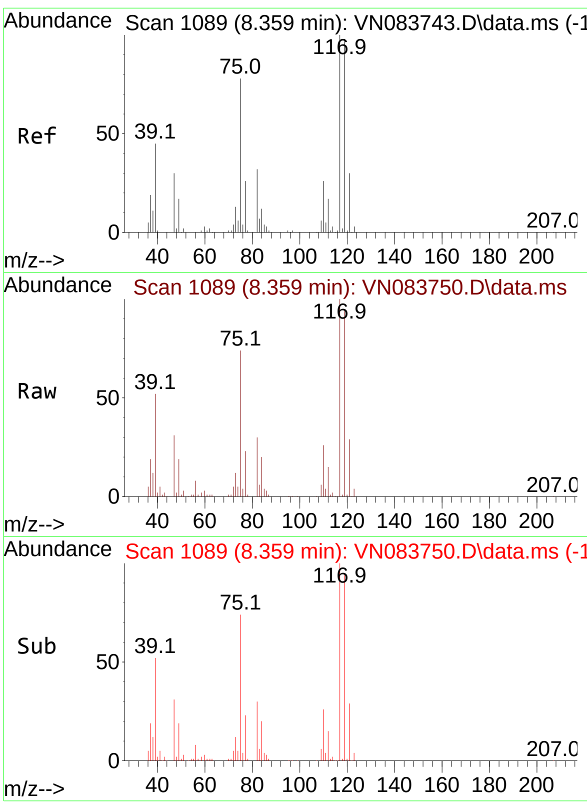
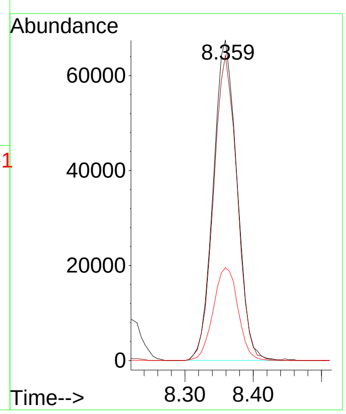
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#38
Carbon Tetrachloride
Concen: 53.514 ug/l
RT: 8.359 min   Scan# 1089
Delta R.T.   0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024   13:36

Tgt Ion:117 Resp: 163561

Ion	Ratio	Lower	Upper
117	100		
119	95.3	76.1	114.1
121	29.0	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations
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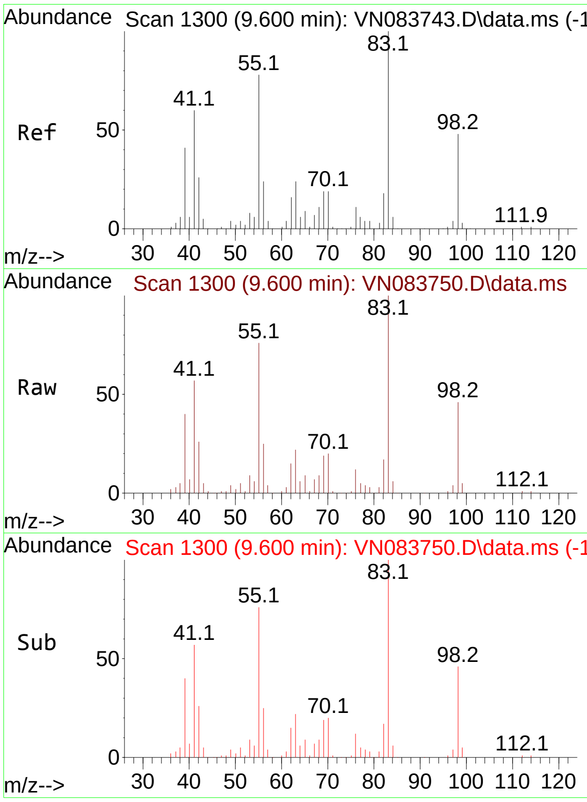
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

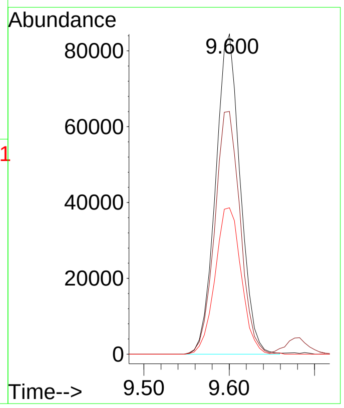
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

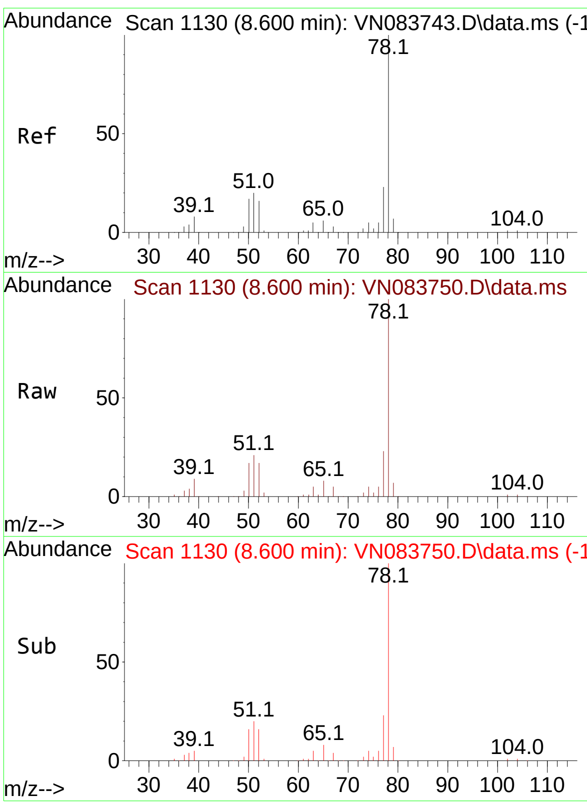


#39
Methylcyclohexane
Concen: 55.386 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 83 Resp: 16984

Ion	Ratio	Lower	Upper
83	100		
55	75.8	62.2	93.4
98	45.8	37.6	56.4

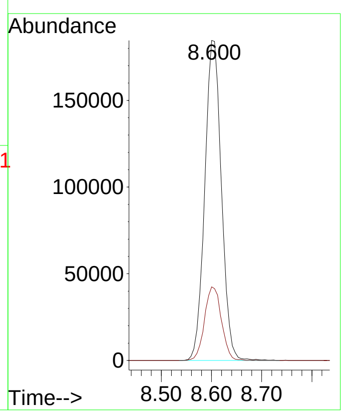


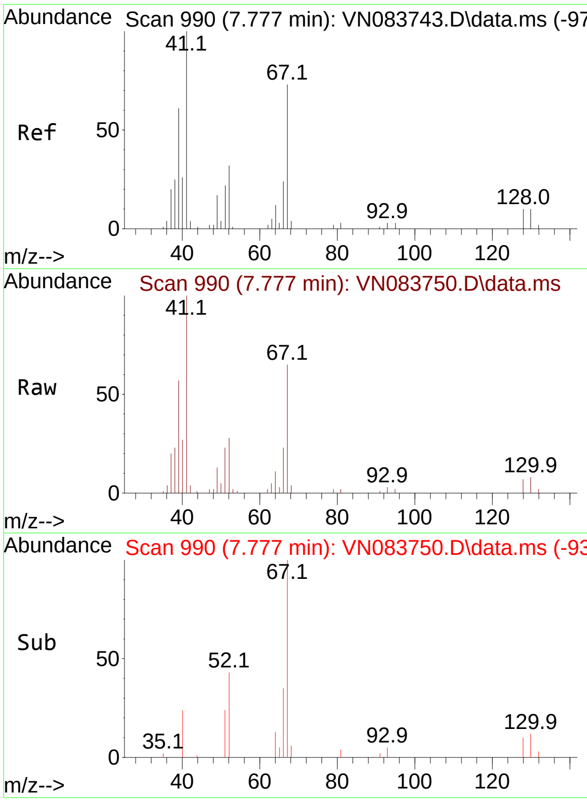


#40
Benzene
Concen: 52.529 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 78 Resp: 425950

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.0	28.6

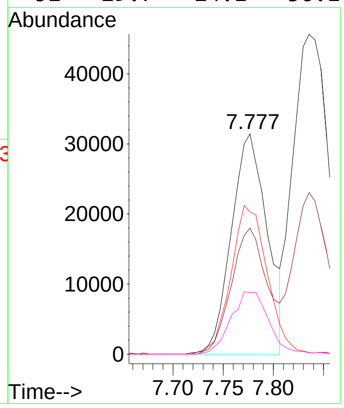




#41
Methacrylonitrile
Concen: 54.088 ug/l
RT: 7.777 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 41 Resp: 7823

Ion	Ratio	Lower	Upper
41	100		
39	57.8	45.4	68.2
67	68.4	55.9	83.9
52	29.7	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
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Manual Integrations
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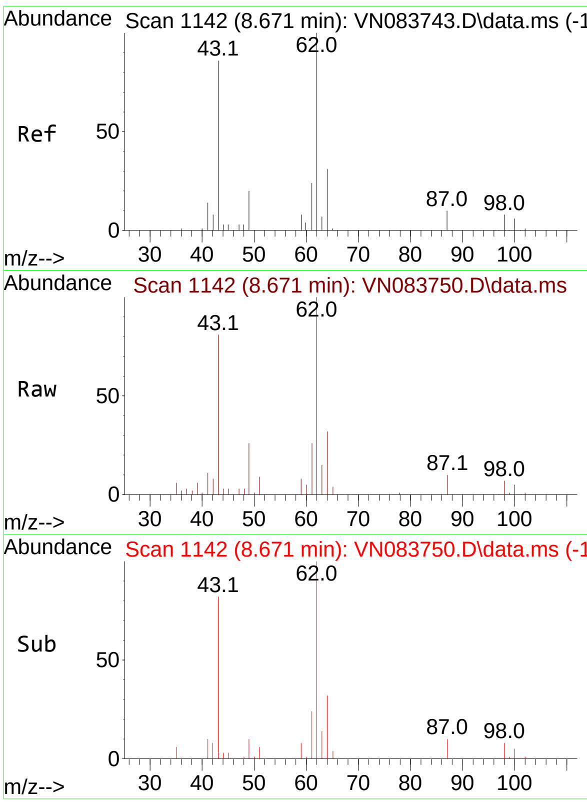
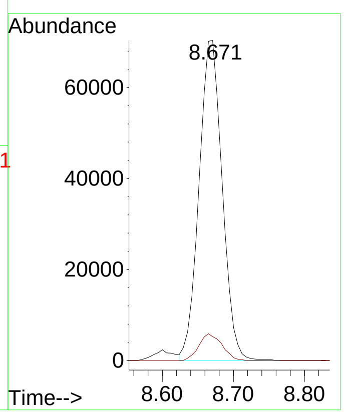
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

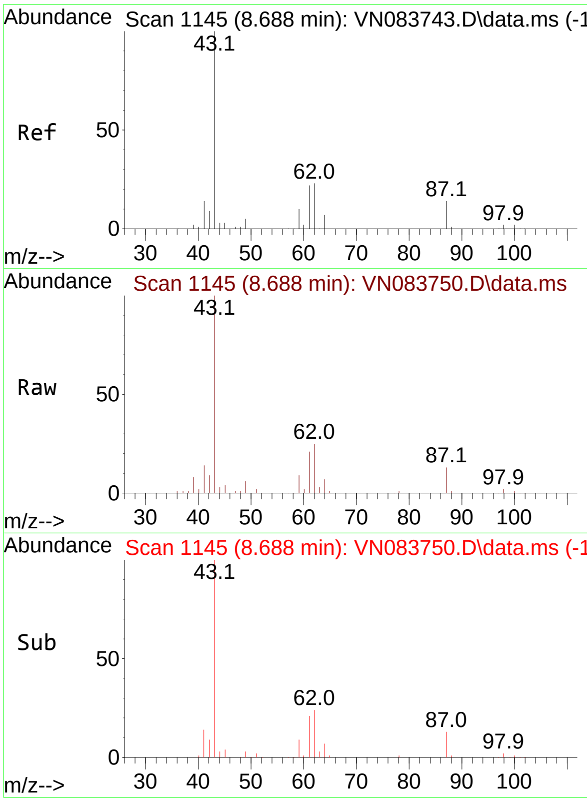


#42
1,2-Dichloroethane
Concen: 52.791 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 62 Resp: 159957

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	16.6





#43
Isopropyl Acetate
Concen: 53.180 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 43 Resp: 23566

Ion	Ratio	Lower	Upper
43	100		
61	26.2	19.4	29.0
87	12.9	9.8	14.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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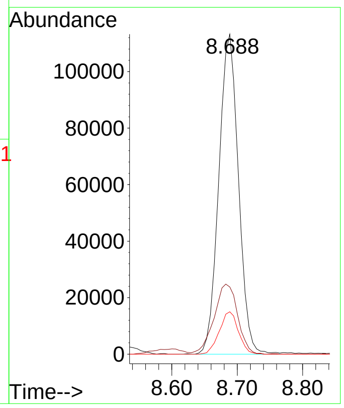
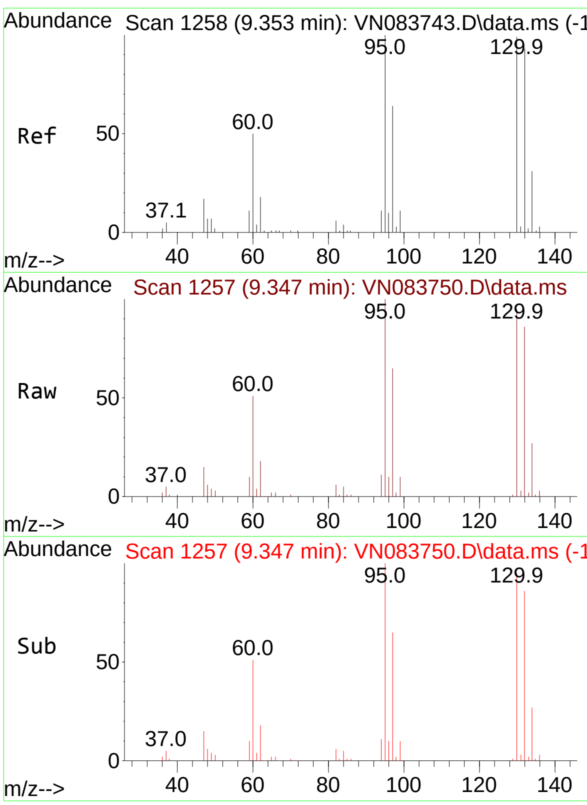
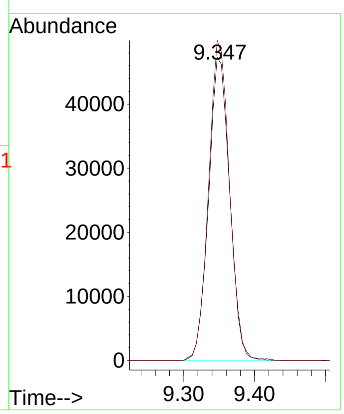




#44
Trichloroethene
Concen: 52.111 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:130 Resp: 97854

Ion	Ratio	Lower	Upper
130	100		
95	105.5	0.0	200.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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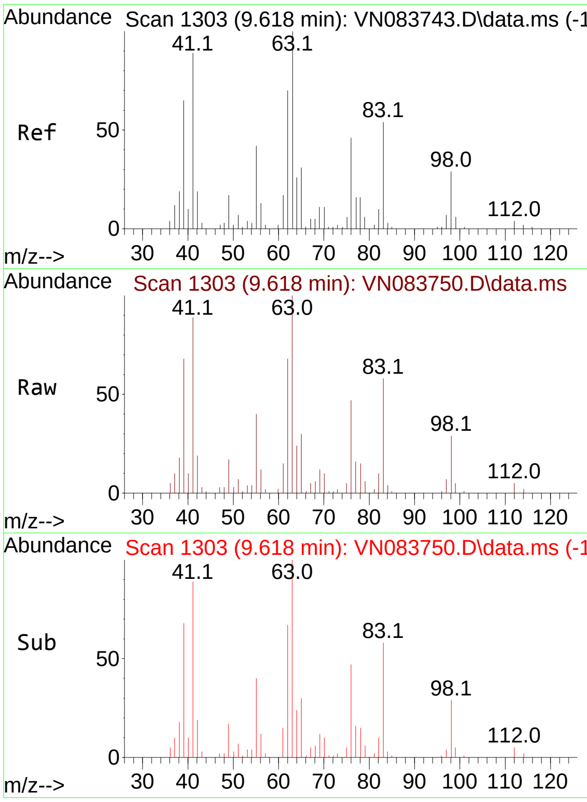
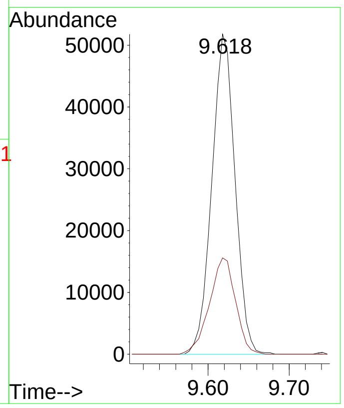
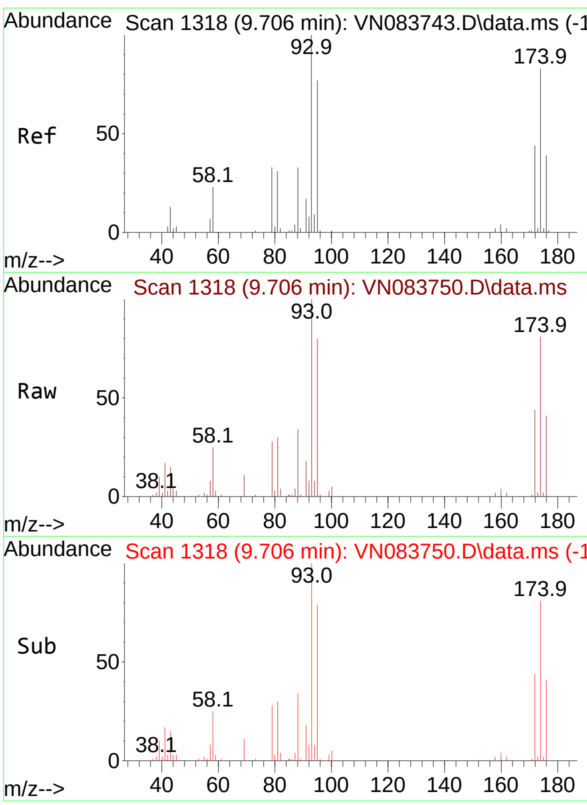


#45
1,2-Dichloropropane
Concen: 52.608 ug/l
RT: 9.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 63 Resp: 10310

Ion	Ratio	Lower	Upper
63	100		
65	30.1	25.9	38.9

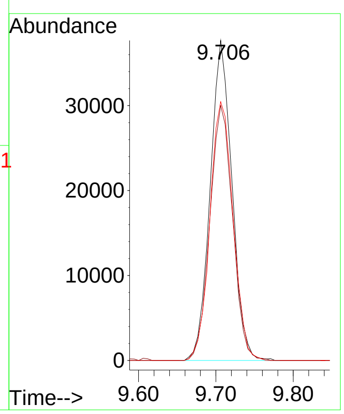




#46
Dibromomethane
Concen: 53.838 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 93 Resp: 73906

Ion	Ratio	Lower	Upper
93	100		
95	83.1	65.3	97.9
174	86.2	71.0	106.4



Instrument : MSVOA_N
ClientSampleId : ICVVN091024

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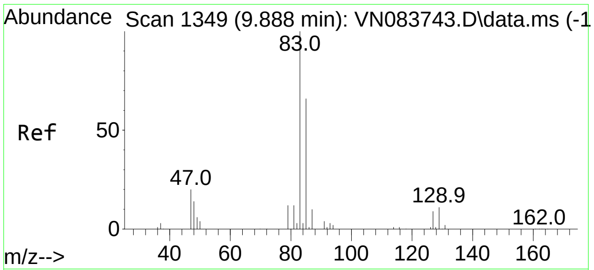
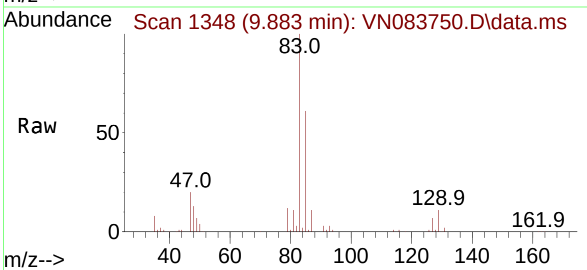
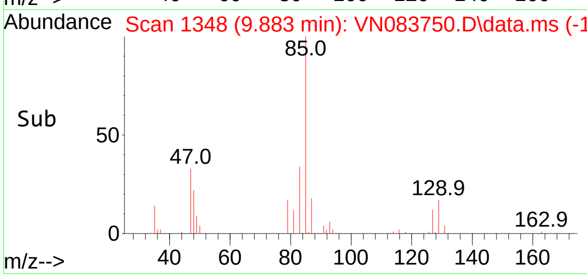


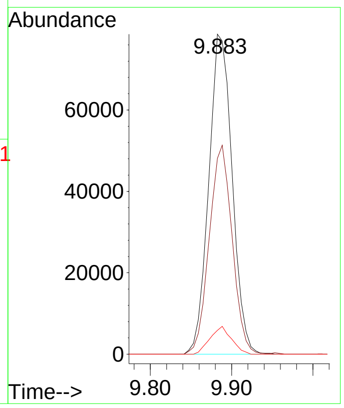


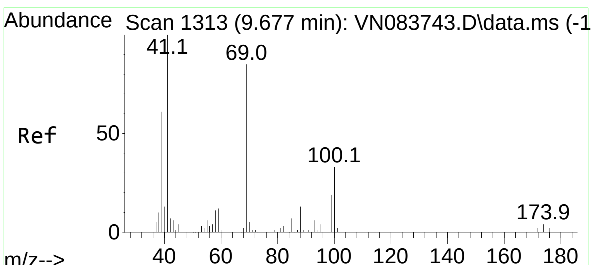


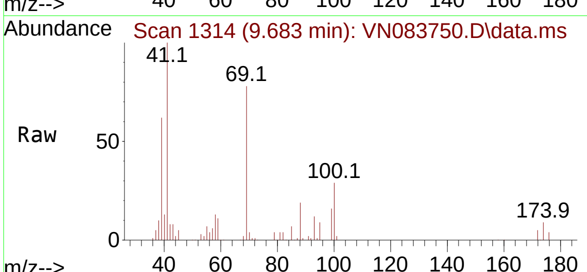
#47
Bromodichloromethane
Concen: 53.018 ug/l
RT: 9.883 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

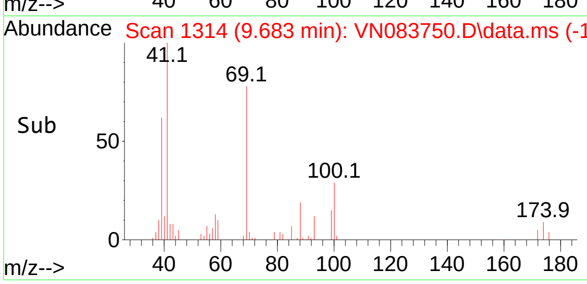
Tgt Ion: 83 Resp: 15751

Ion	Ratio	Lower	Upper
83	100		
85	61.2	51.8	77.8
127	7.4	6.6	9.8





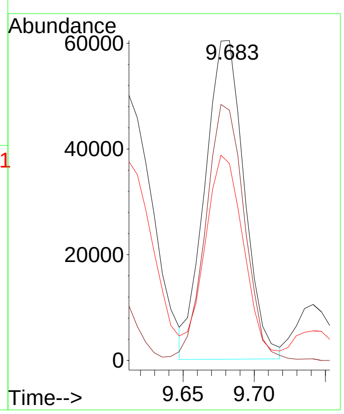


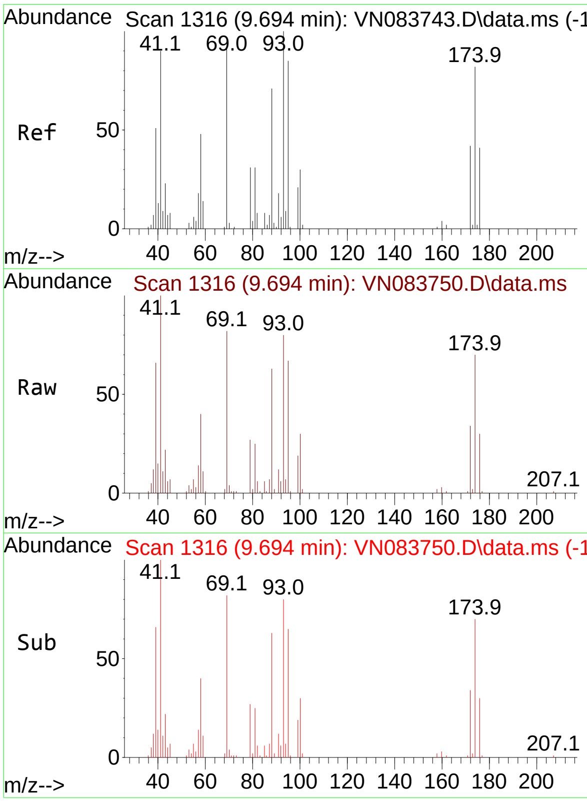


#48
Methyl methacrylate
Concen: 55.216 ug/l
RT: 9.683 min Scan# 1314
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 41 Resp: 116089

Ion	Ratio	Lower	Upper
41	100		
69	79.2	64.3	96.5
39	64.1	48.9	73.3





#49
1,4-Dioxane
Concen: 1050.868 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations
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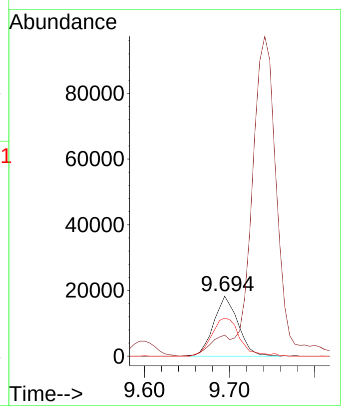
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Tgt Ion: 88 Resp: 3634

Ion	Ratio	Lower	Upper
88	100		
43	29.0	0.0	0.0
58	73.3	57.1	85.7



1
2
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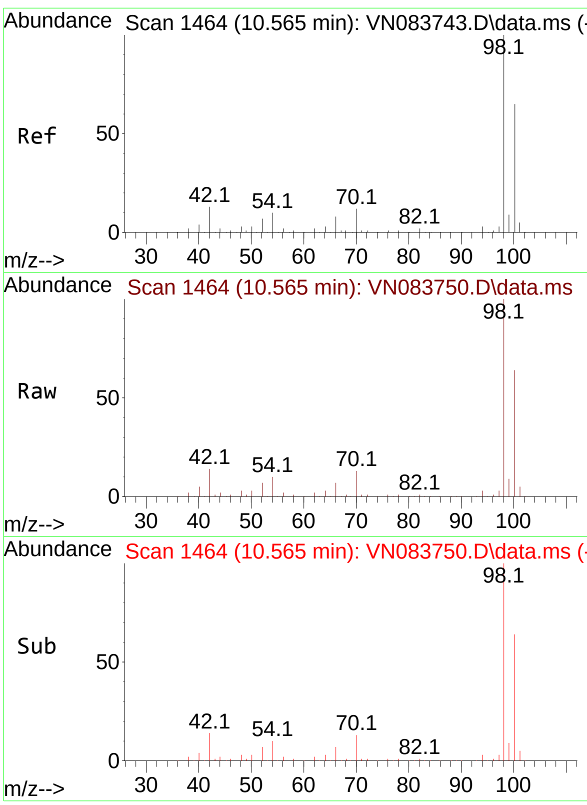
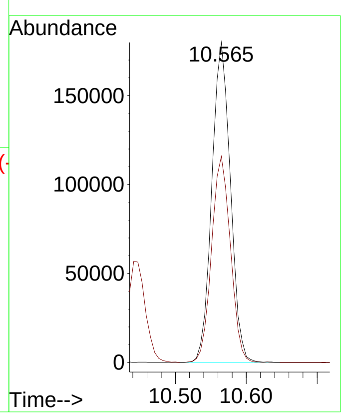


#50
Toluene-d8
Concen: 52.850 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 98 Resp: 327030

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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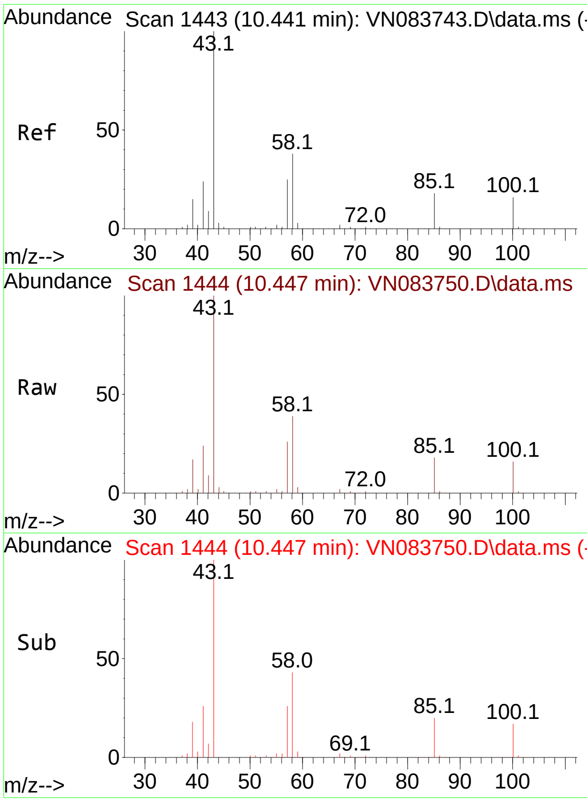
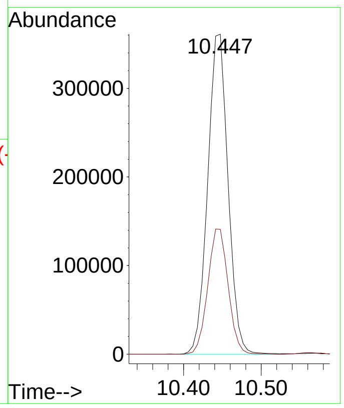
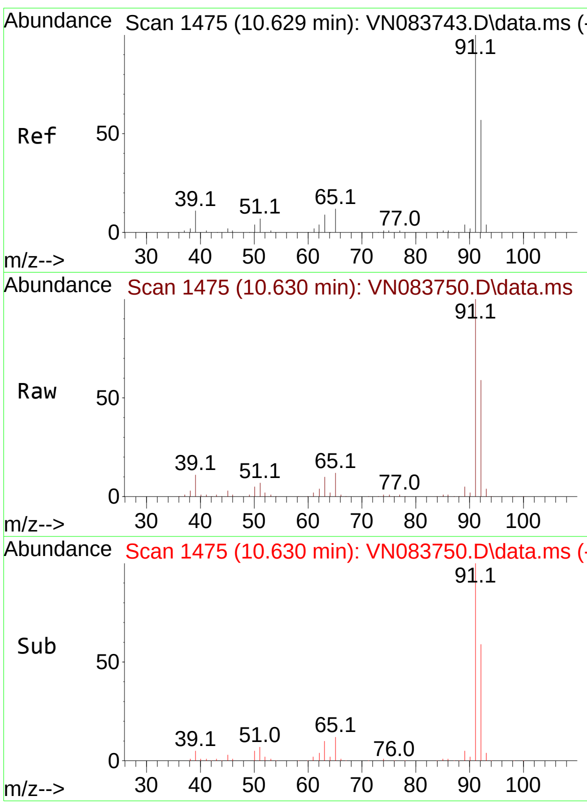


#51
4-Methyl-2-Pentanone
Concen: 272.839 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 43 Resp: 65816

Ion	Ratio	Lower	Upper
43	100		
58	39.1	31.6	47.4

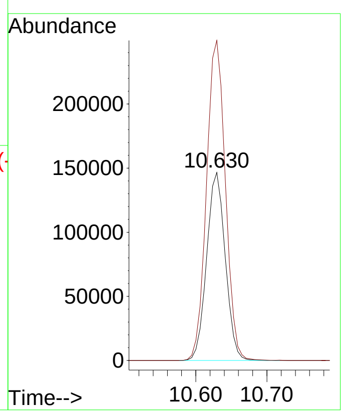


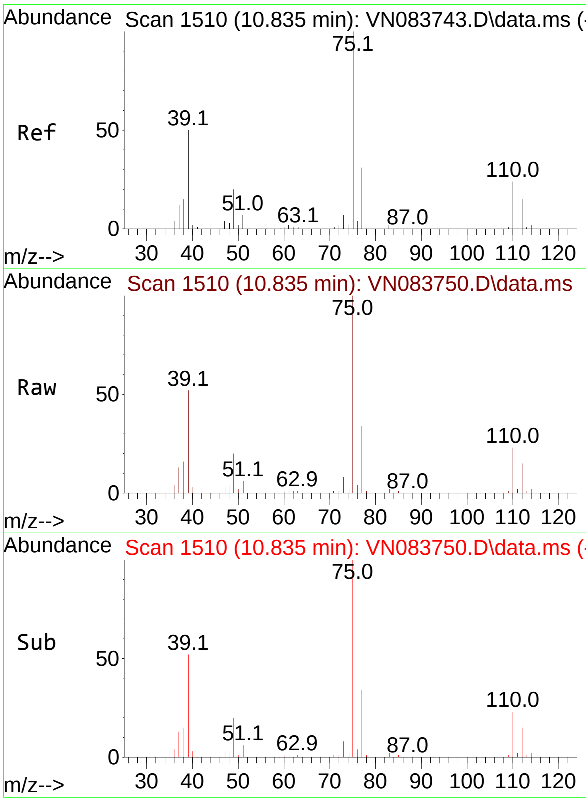


#52
Toluene
Concen: 53.732 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 92 Resp: 266506

Ion	Ratio	Lower	Upper
92	100		
91	173.0	134.7	202.1





#53
t-1,3-Dichloropropene
Concen: 55.091 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 75 Resp: 16590

Ion	Ratio	Lower	Upper
75	100		
77	33.9	25.8	38.6

Instrument :
MSVOA_N
ClientSampleId :
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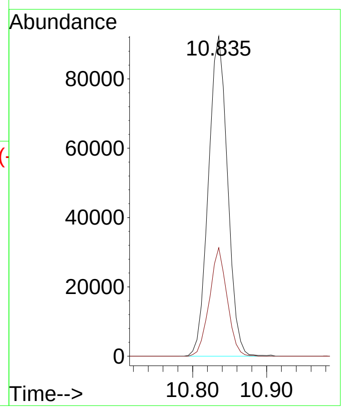
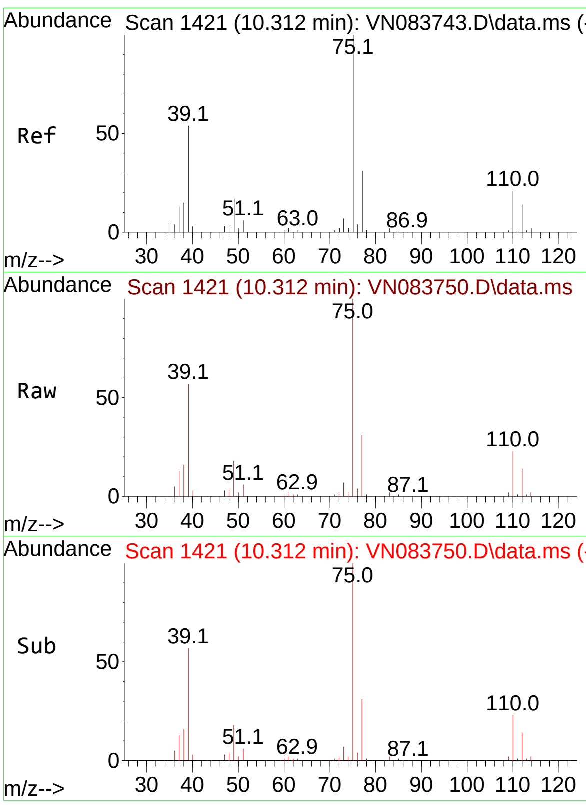
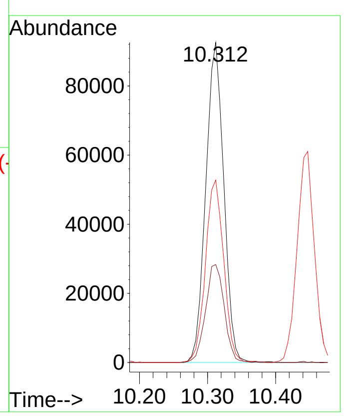




#54
cis-1,3-Dichloropropene
Concen: 53.937 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 75 Resp: 170616

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.0	37.6
39	57.0	42.6	64.0



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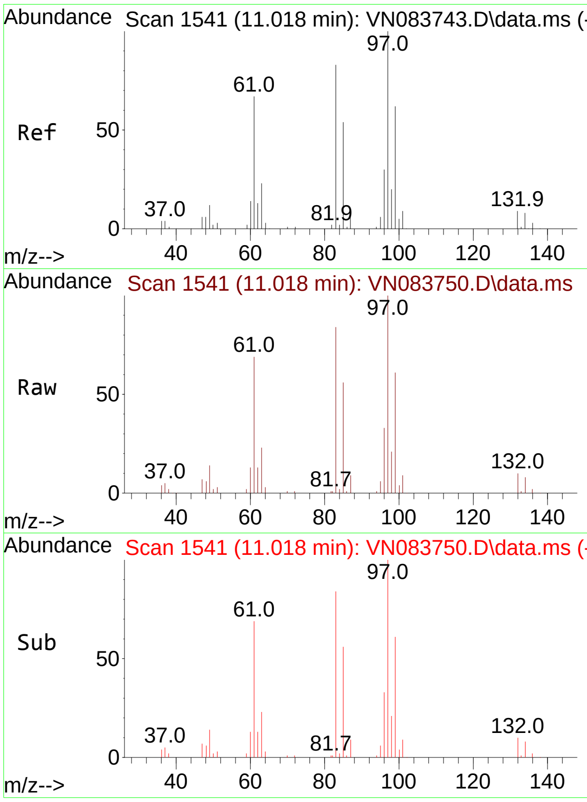
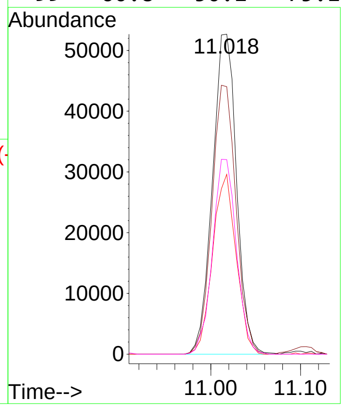


#55
1,1,2-Trichloroethane
Concen: 53.075 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 97 Resp: 9828

Ion	Ratio	Lower	Upper
97	100		
83	83.6	67.5	101.3
85	56.2	44.2	66.2
99	60.8	50.1	75.1



Instrument :
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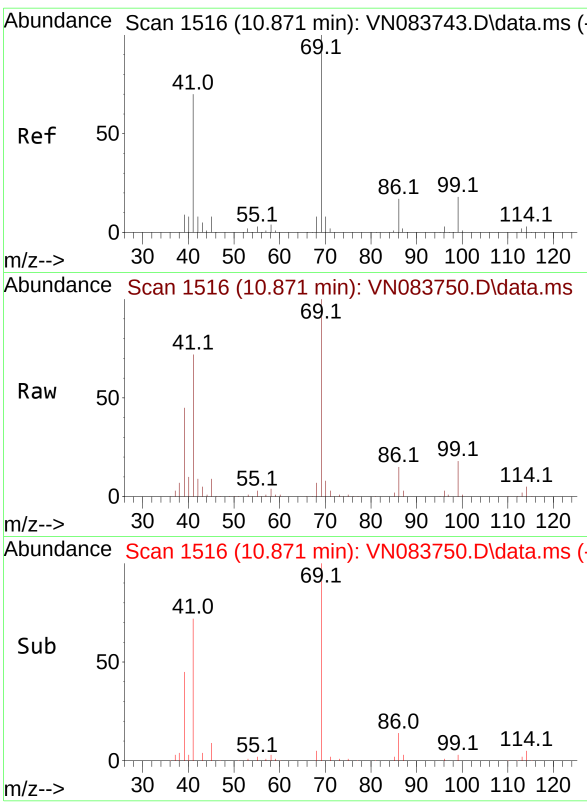
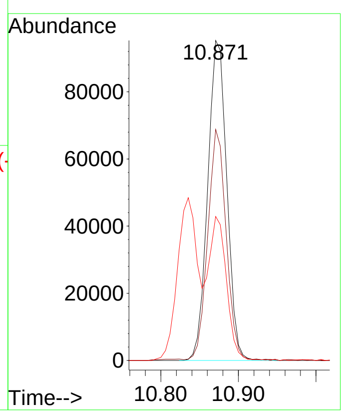
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

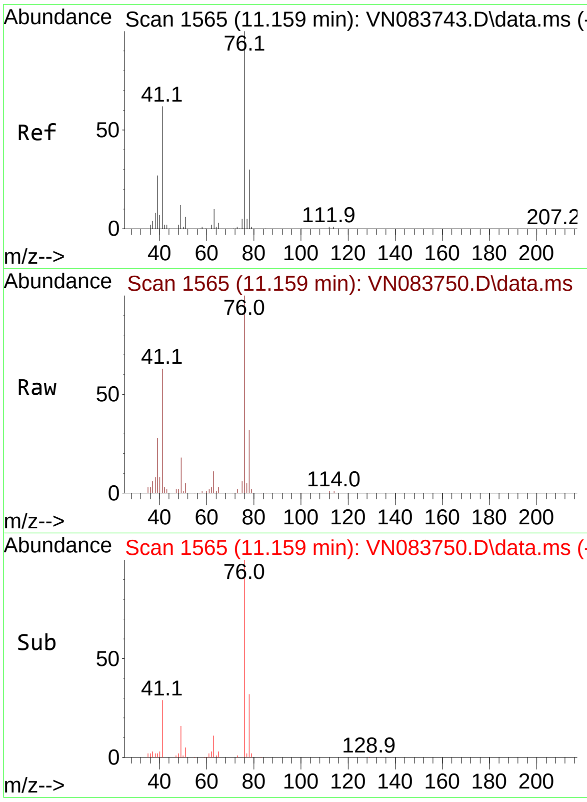


#56
Ethyl methacrylate
Concen: 57.314 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 69 Resp: 163284

Ion	Ratio	Lower	Upper
69	100		
41	68.9	53.9	80.9
39	42.2	32.6	48.8





#57
1,3-Dichloropropane
Concen: 53.152 ug/l
RT: 11.159 min   Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 76 Resp: 16915

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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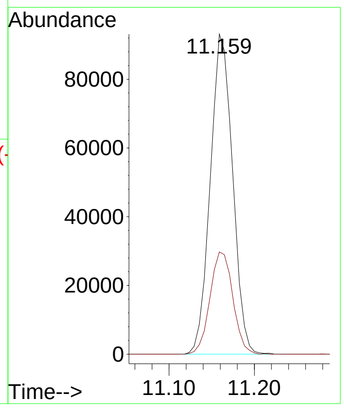
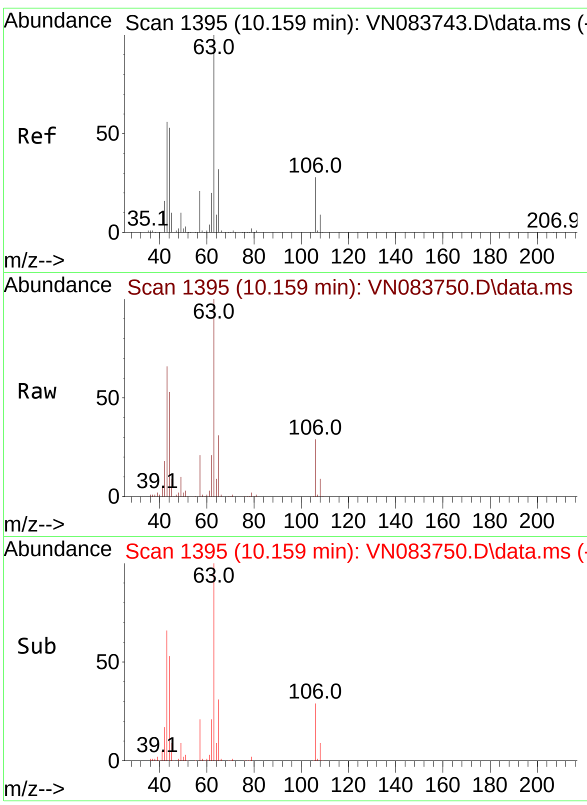
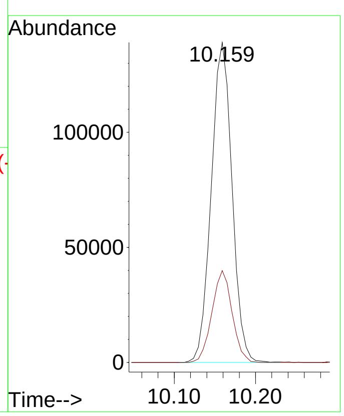


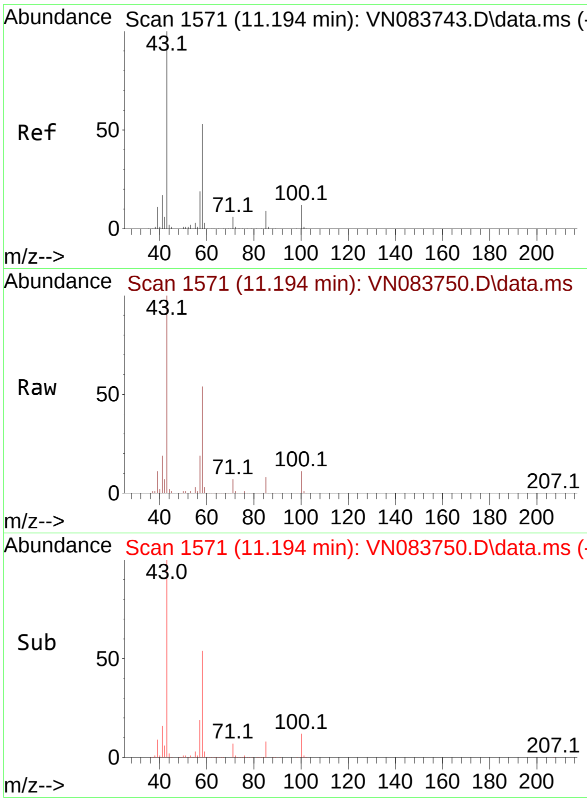


#58
2-Chloroethyl Vinyl ether
Concen: 240.626 ug/l
RT: 10.159 min   Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 63 Resp: 247009

Ion	Ratio	Lower	Upper
63	100		
106	27.9	23.3	34.9





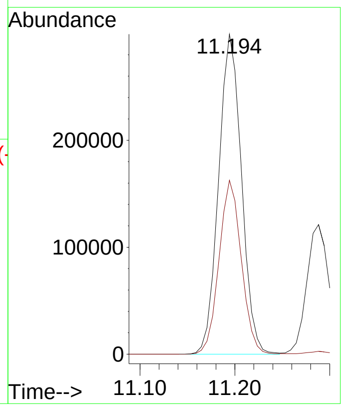
#59
2-Hexanone
Concen: 281.422 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

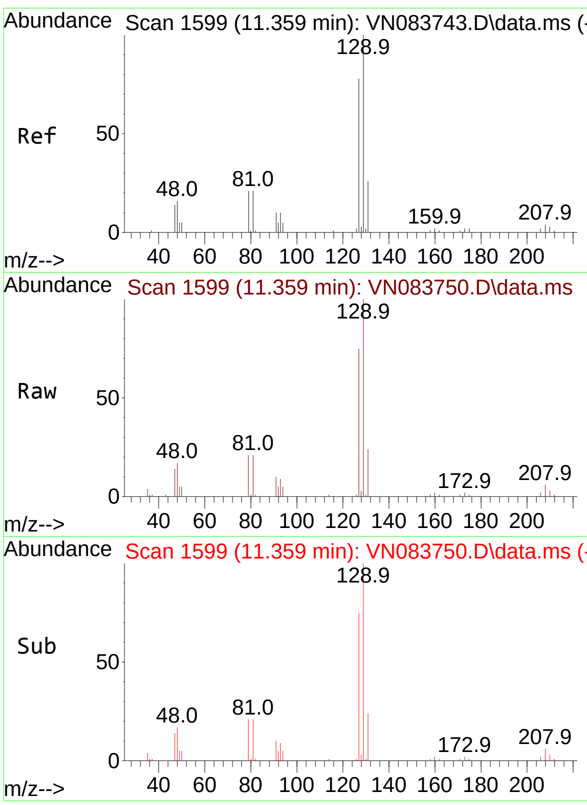
Tgt Ion: 43 Resp: 50217

Ion	Ratio	Lower	Upper
43	100		
58	53.0	27.2	81.5

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

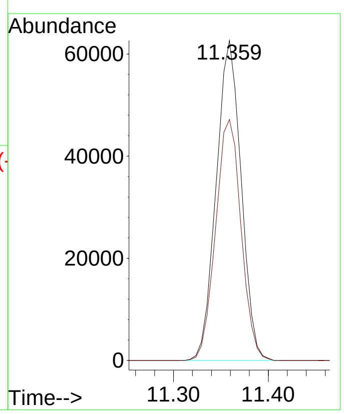




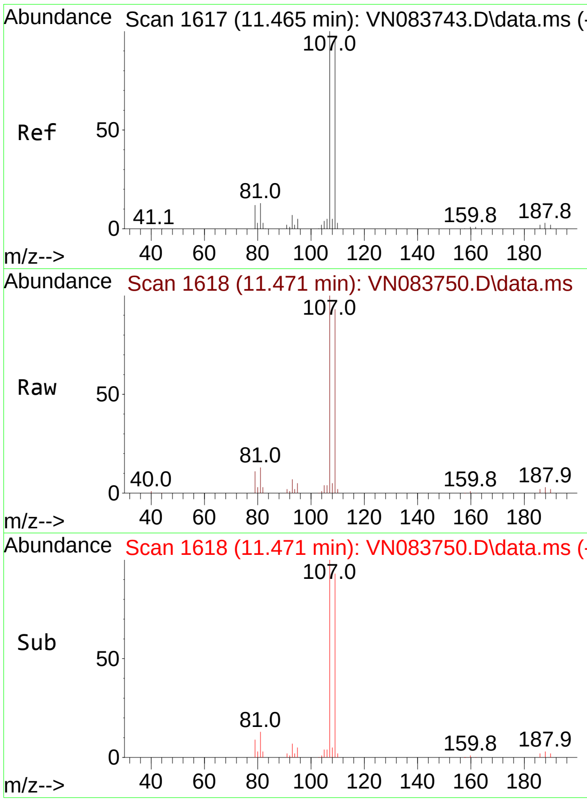
#60
Dibromochloromethane
Concen: 55.330 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:129 Resp: 114660

Ion	Ratio	Lower	Upper
129	100		
127	76.9	39.0	116.9



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#61
1,2-Dibromoethane
Concen: 53.026 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Tgt Ion:107 Resp: 9792

Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.6	113.4

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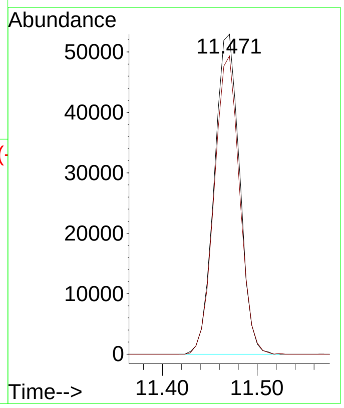
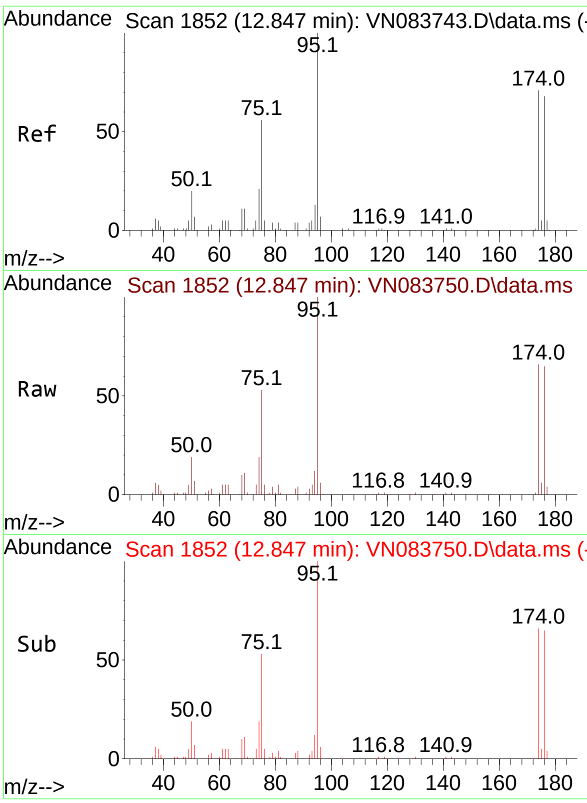
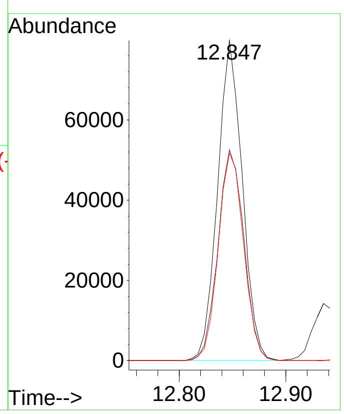


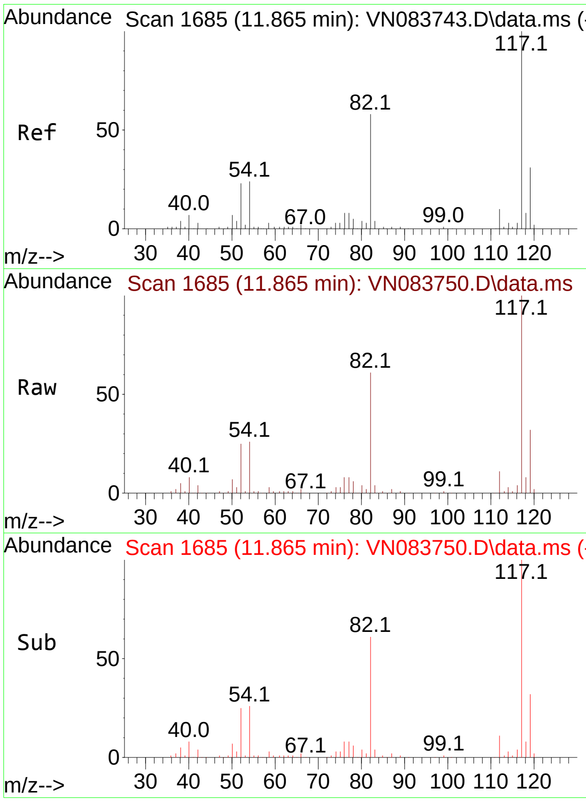


#62
4-Bromofluorobenzene
Concen: 50.260 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 95 Resp: 128312

Ion	Ratio	Lower	Upper
95	100		
174	69.1	0.0	139.8
176	66.9	0.0	131.4

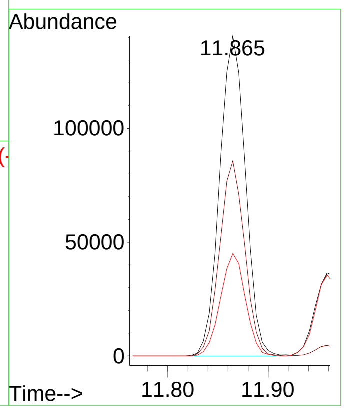




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:117 Resp: 25125

Ion	Ratio	Lower	Upper
117	100		
82	60.9	47.4	71.0
119	32.0	26.3	39.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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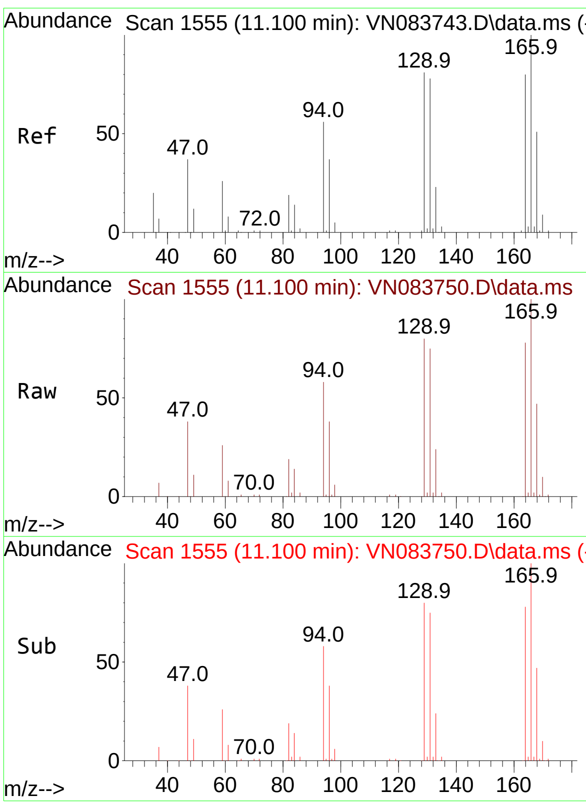
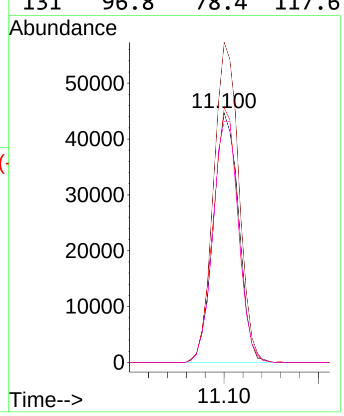
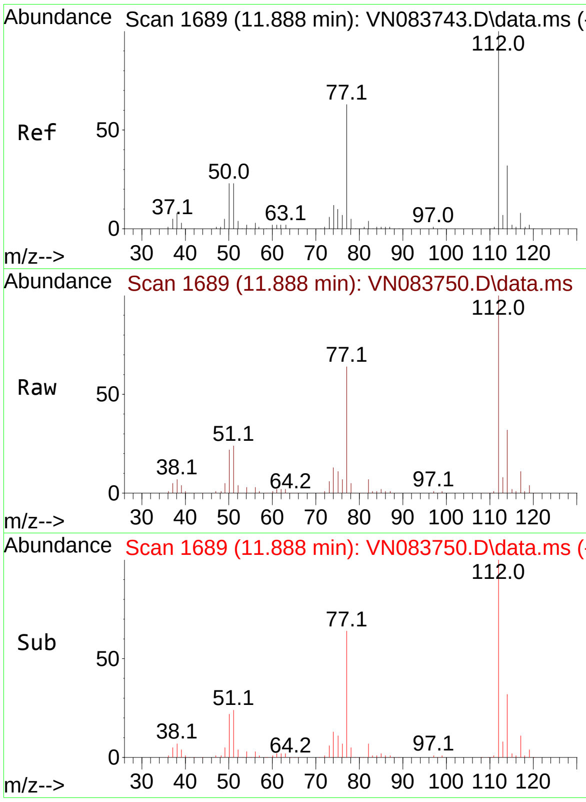


#64
Tetrachloroethene
Concen: 49.891 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:164 Resp: 83365

Ion	Ratio	Lower	Upper
164	100		
166	128.4	103.7	155.5
129	102.2	79.9	119.9
131	96.8	78.4	117.6

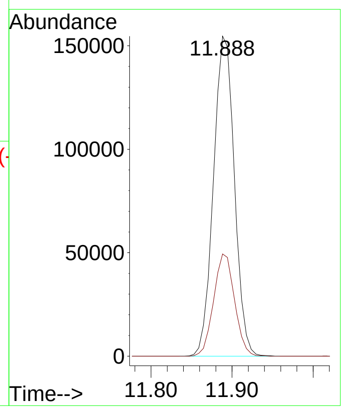




#65
Chlorobenzene
Concen: 49.726 ug/l
RT: 11.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:112 Resp: 27768

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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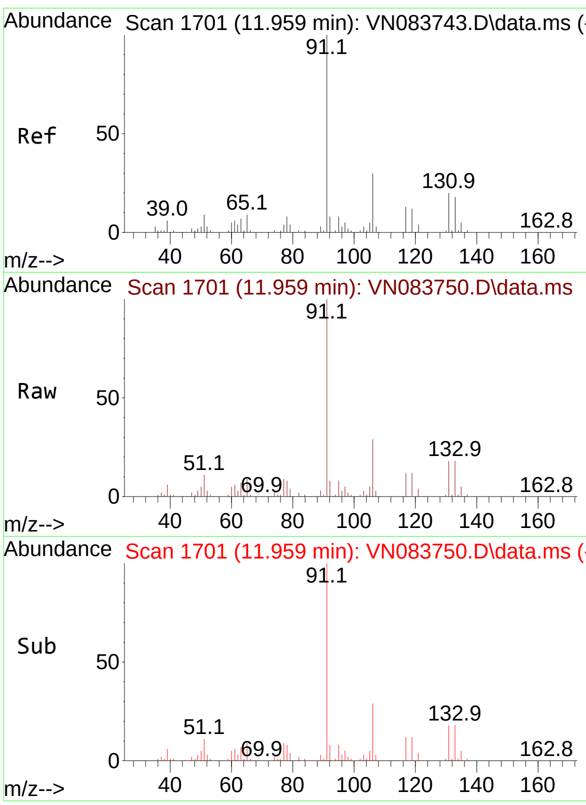
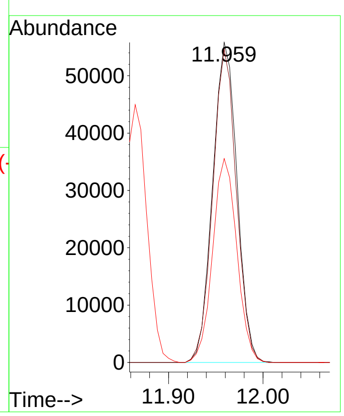


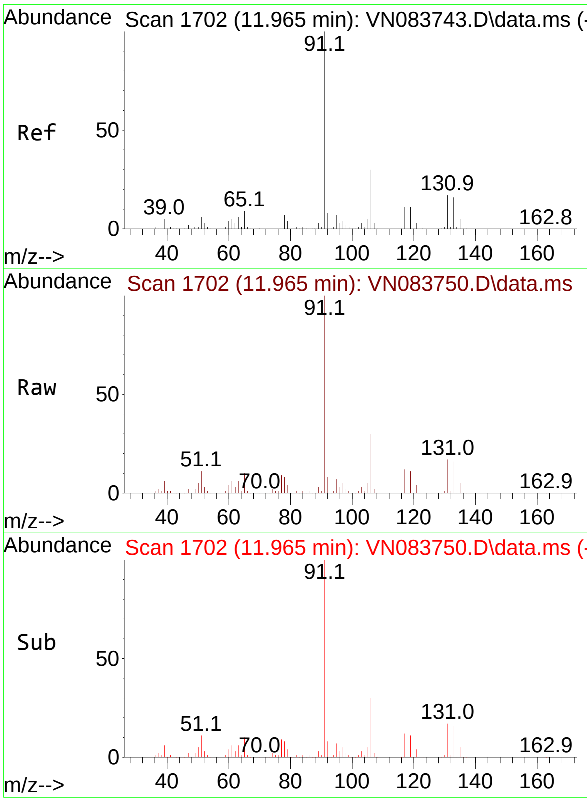
#66
1,1,1,2-Tetrachloroethane
Concen: 51.726 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:131 Resp: 100138

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.5	142.6
119	63.3	31.6	94.8



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#67
Ethyl Benzene
Concen: 52.932 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 91 Resp: 52509

Ion	Ratio	Lower	Upper
91	100		
106	29.9	24.3	36.5

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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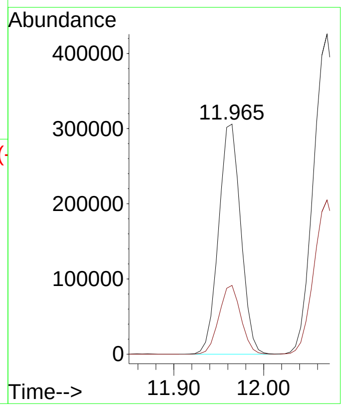
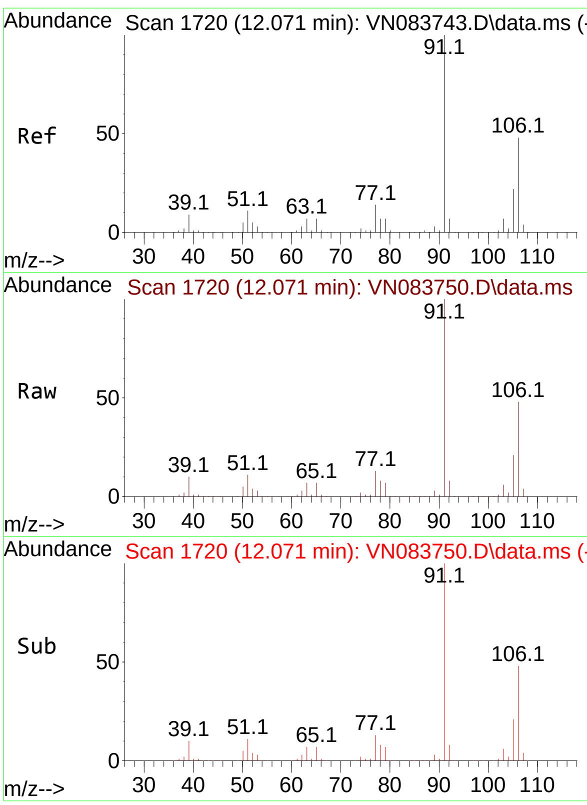


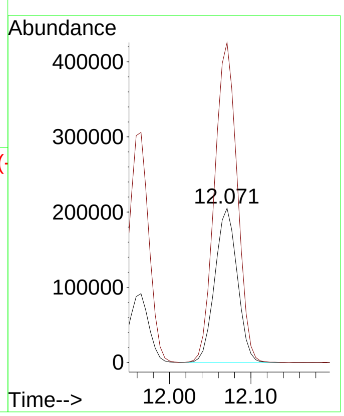
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#68
m/p-Xylenes
Concen: 106.586 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:106 Resp: 392558

Ion	Ratio	Lower	Upper
106	100		
91	210.6	169.2	253.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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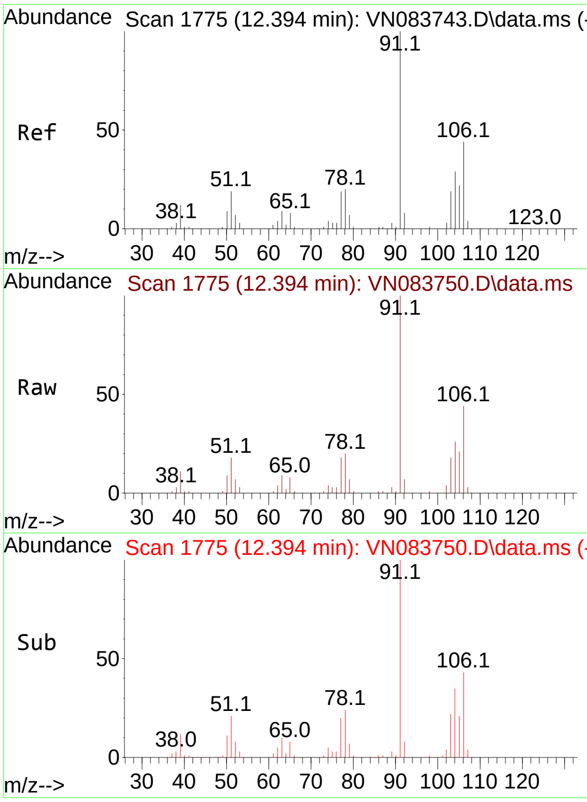
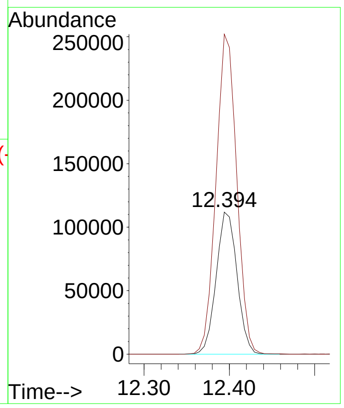
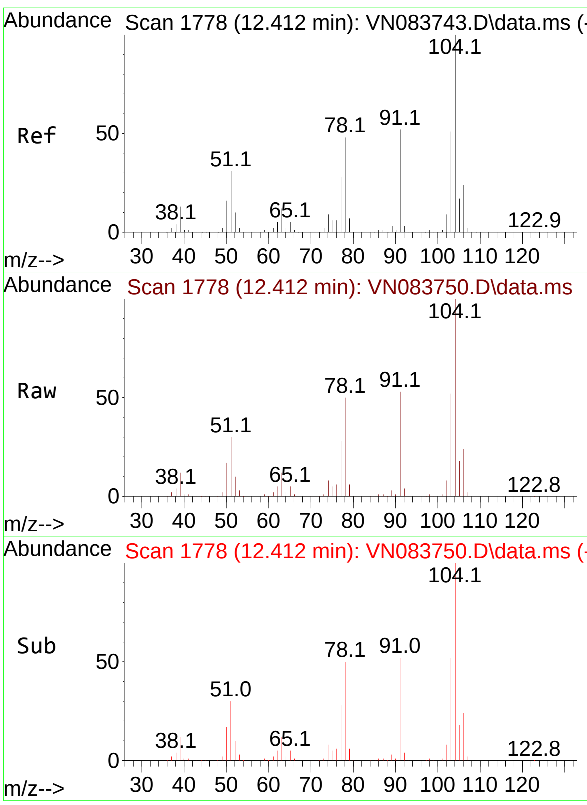


#69
o-Xylene
Concen: 53.308 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:106 Resp: 19006

Ion	Ratio	Lower	Upper
106	100		
91	223.7	112.9	338.6

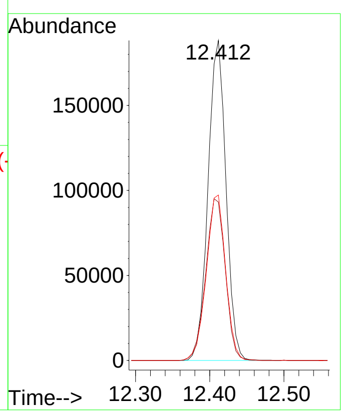


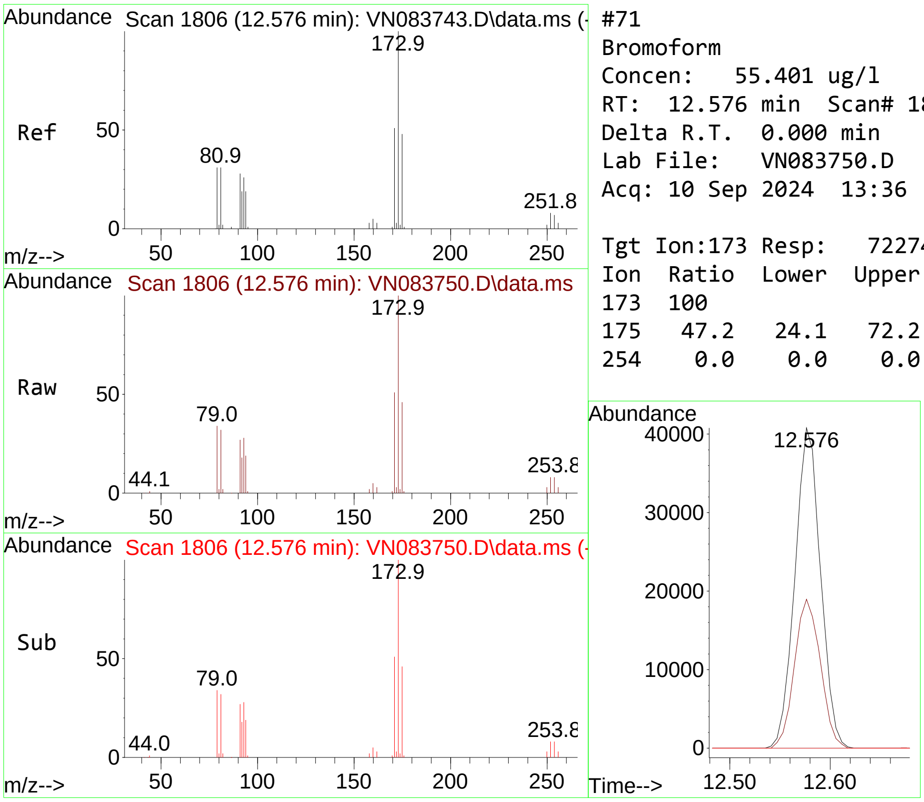


#70
Styrene
Concen: 54.056 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:104 Resp: 316306

Ion	Ratio	Lower	Upper
104	100		
78	55.2	43.3	64.9
103	55.5	43.4	65.2





#71
Bromoform
Concen: 55.401 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:173 Resp: 72274

Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.1	72.2
254	0.0	0.0	0.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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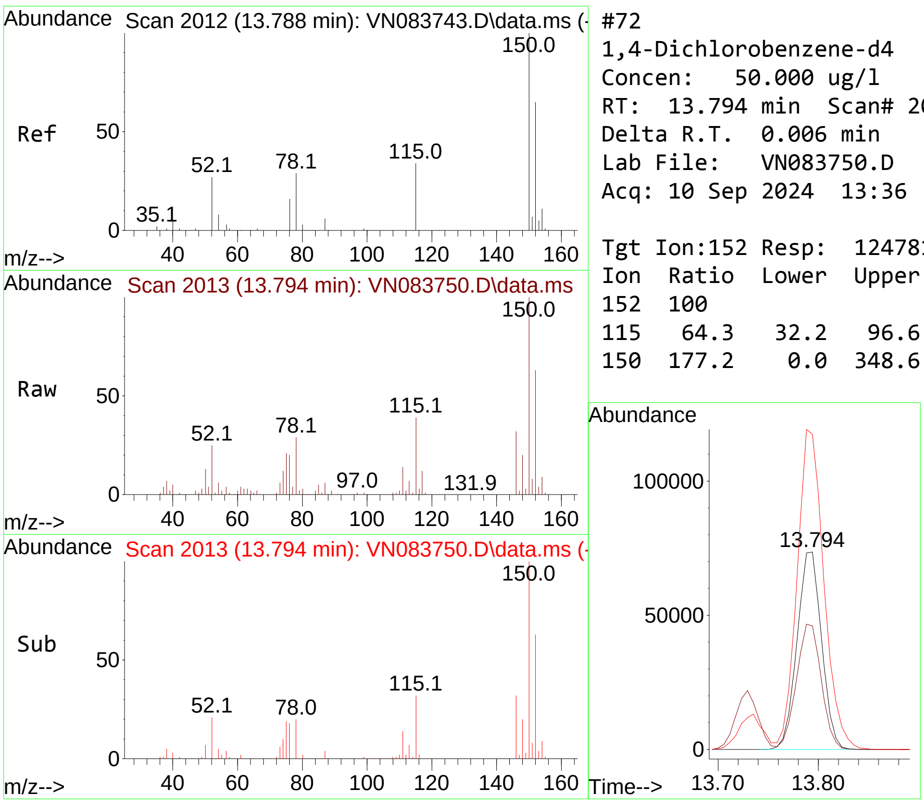
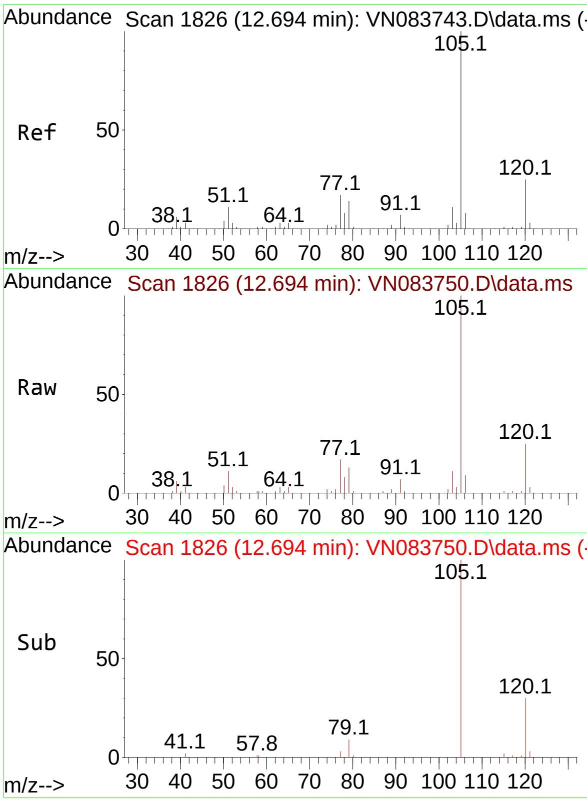
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:152 Resp: 124781

Ion	Ratio	Lower	Upper
152	100		
115	64.3	32.2	96.6
150	177.2	0.0	348.6



#73
Isopropylbenzene
Concen: 52.053 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:105 Resp: 50251

Ion	Ratio	Lower	Upper
105	100		
120	25.2	12.6	37.8

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations
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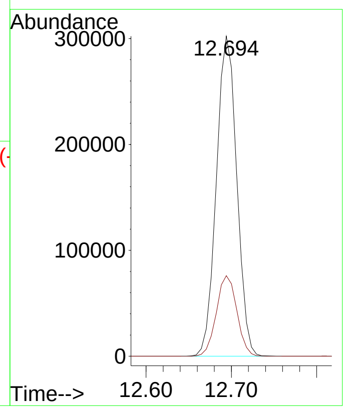
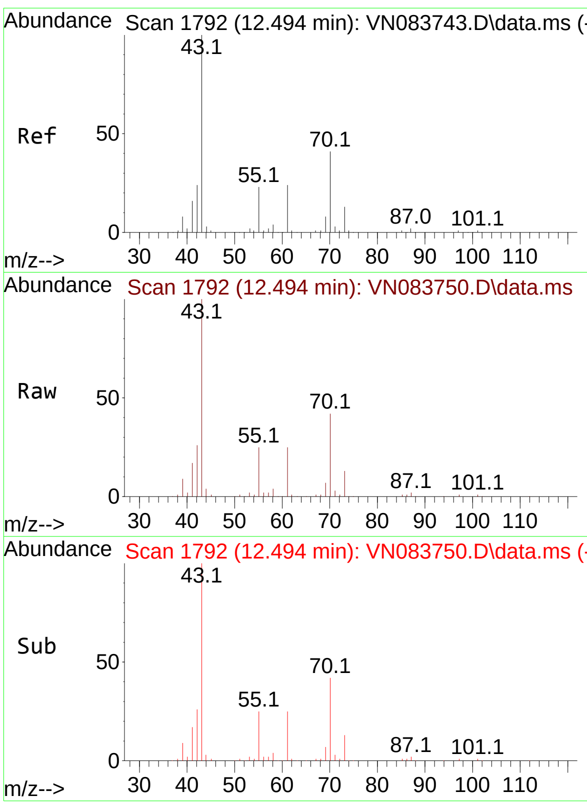
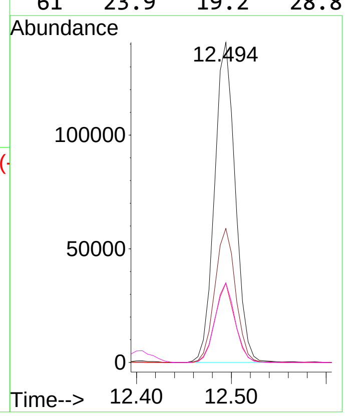




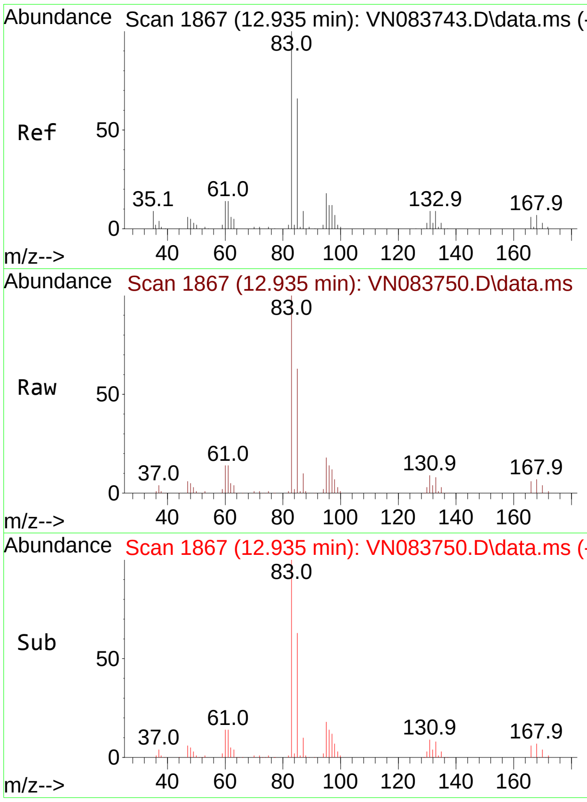
#74
N-amyl acetate
Concen: 52.045 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 43 Resp: 214365

Ion	Ratio	Lower	Upper
43	100		
70	41.9	34.5	51.7
55	23.7	18.6	28.0
61	23.9	19.2	28.8



ICAL Form



#75
1,1,2,2-Tetrachloroethane
Concen: 48.260 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Instrument : MSVOA_N
ClientSampleId : ICVVN091024

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Reviewed By :John Carlone 09/11/2024
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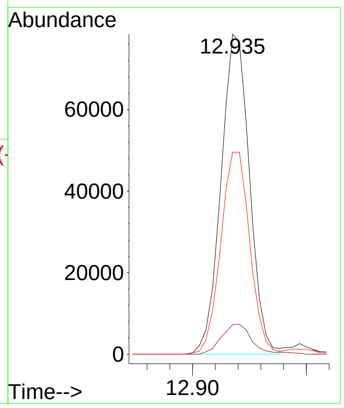
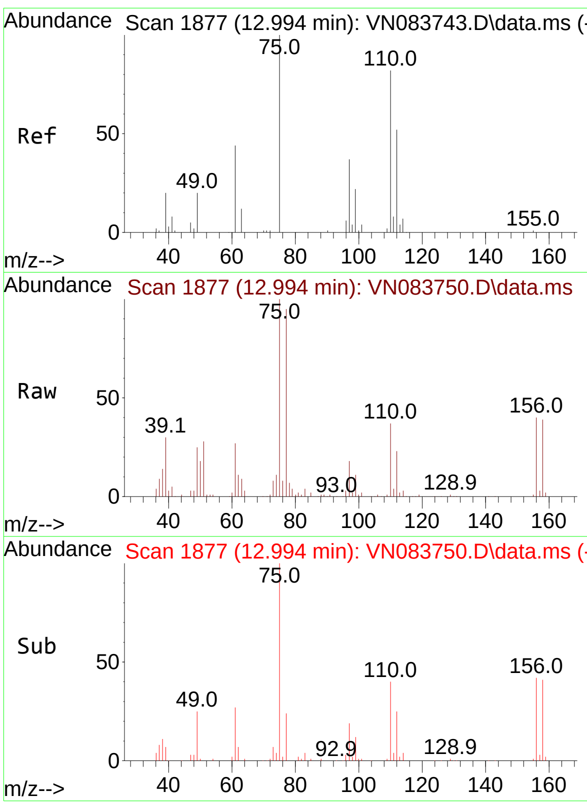
Tgt Ion: 83 Resp: 136889

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.2	15.6
85	64.4	31.9	95.9

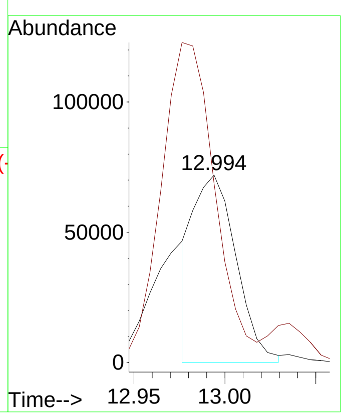


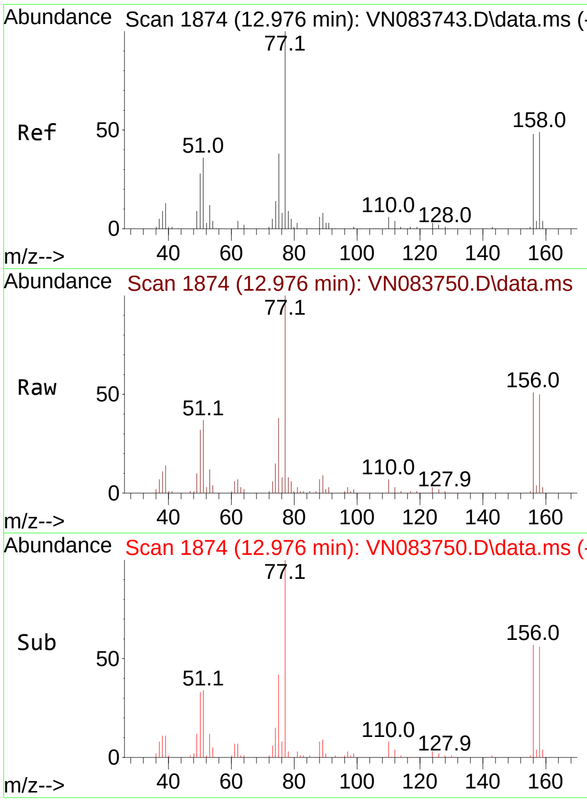


#76
1,2,3-Trichloropropane
Concen: 48.674 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 75 Resp: 119528

Ion	Ratio	Lower	Upper
75	100		
77	211.7	95.2	285.6





#77
Bromobenzene
Concen: 47.901 ug/l
RT: 12.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:156 Resp: 11131

Ion	Ratio	Lower	Upper
156	100		
77	227.3	114.3	343.1
158	97.0	48.9	146.7

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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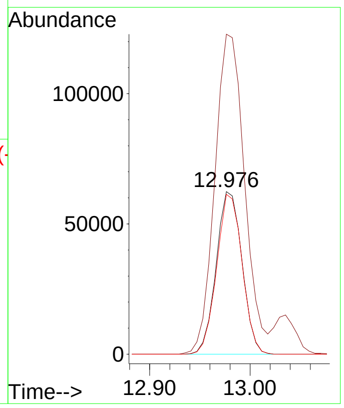
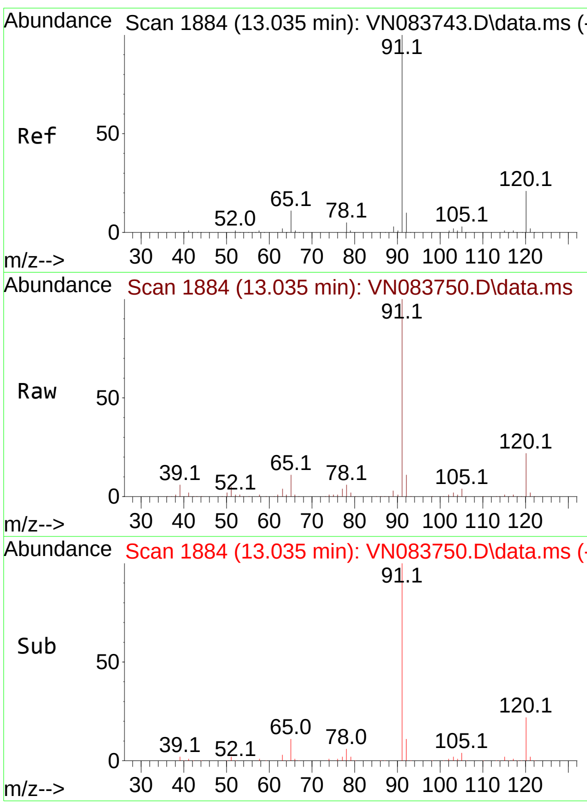
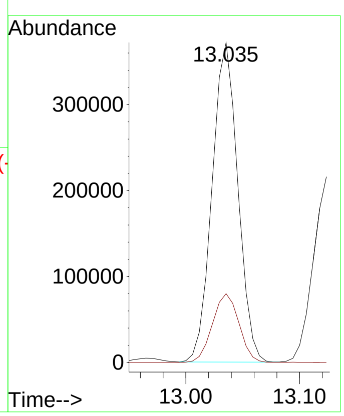




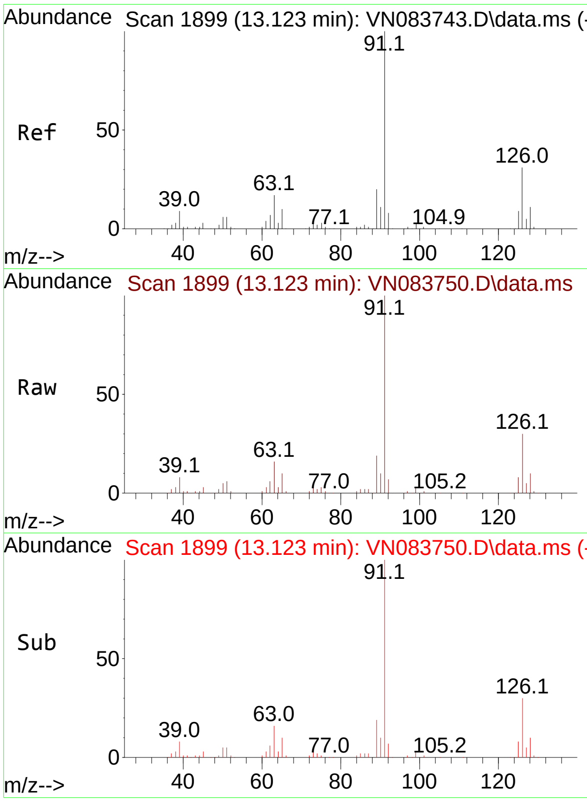
#78
n-propylbenzene
Concen: 52.176 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 91 Resp: 586056

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.0	33.0



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#79
2-Chlorotoluene
Concen: 50.314 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Tgt Ion: 91 Resp: 36042

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.4	46.2

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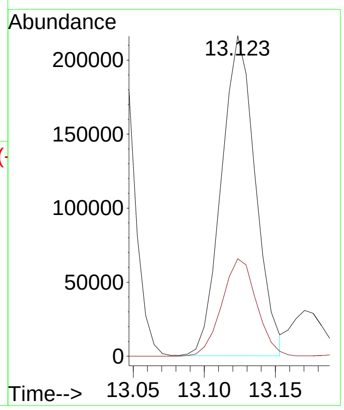
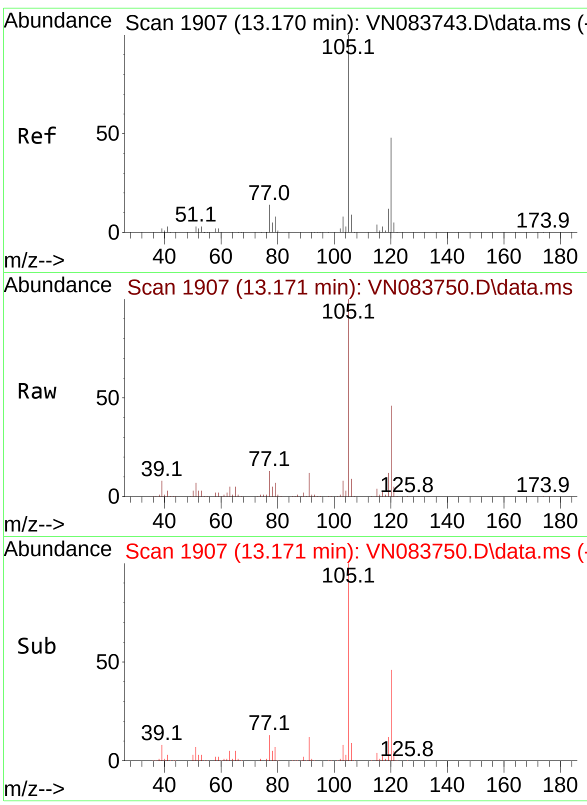
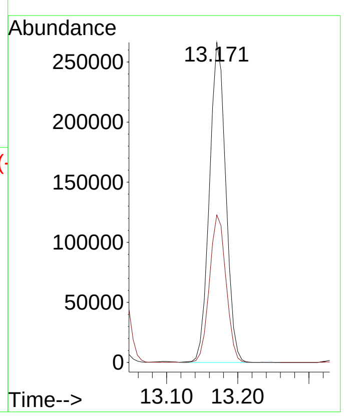




#80
1,3,5-Trimethylbenzene
Concen: 52.201 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:105 Resp: 424866

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.4	70.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

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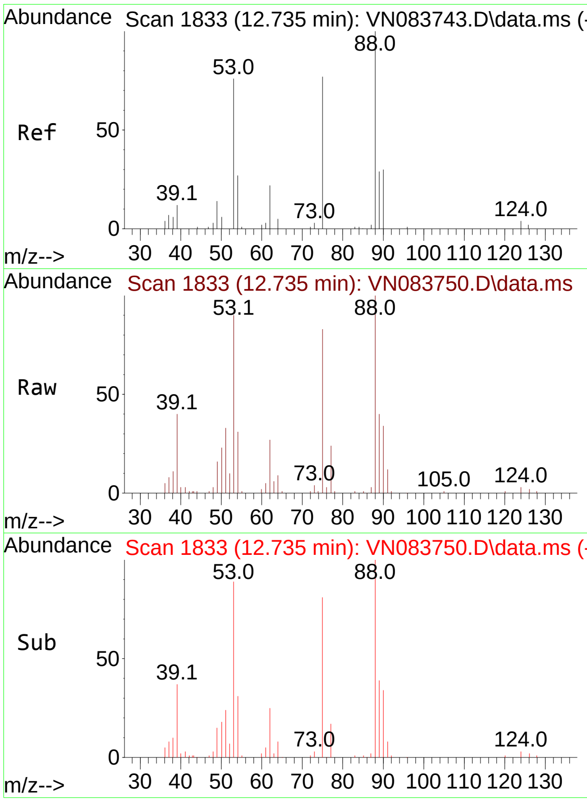
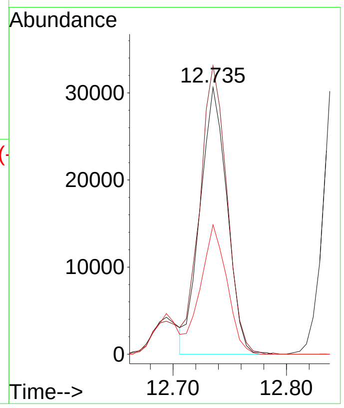
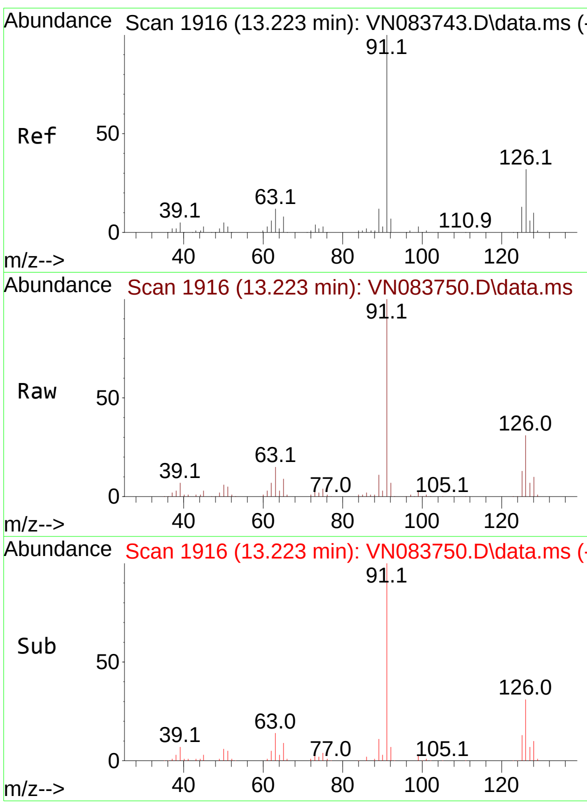


#81
trans-1,4-Dichloro-2-butene
Concen: 52.525 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 75 Resp: 5049

Ion	Ratio	Lower	Upper
75	100		
53	108.8	81.2	121.8
89	47.8	35.7	53.5

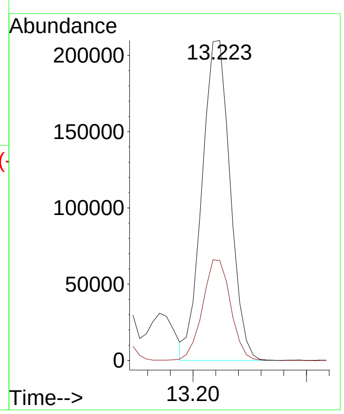


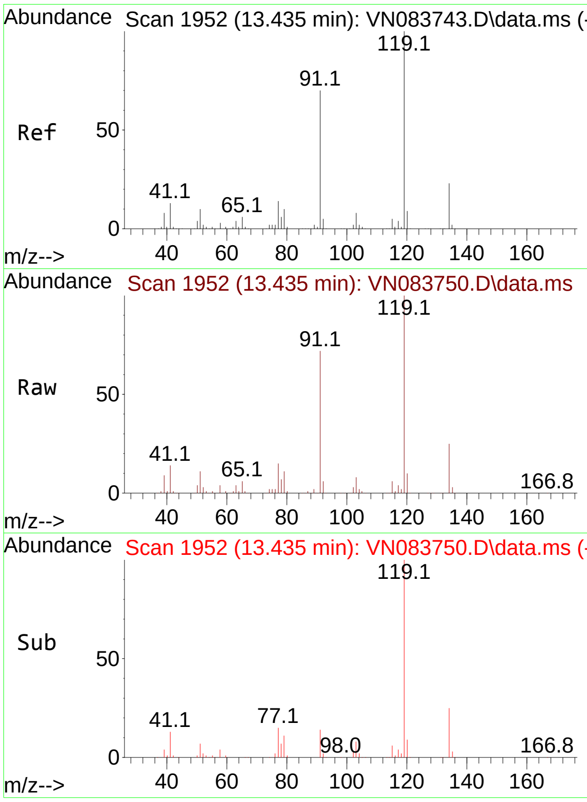


#82
4-Chlorotoluene
Concen: 50.343 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 91 Resp: 361895

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.4	46.2





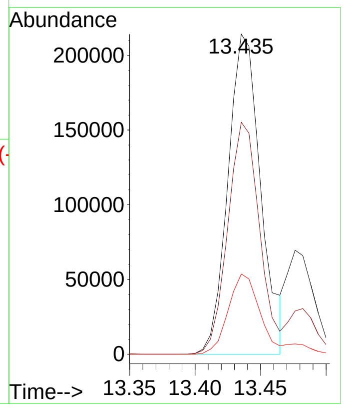
#83
tert-Butylbenzene
Concen: 52.220 ug/l
RT: 13.435 min   Scan# 1
Delta R.T.   0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024   13:36

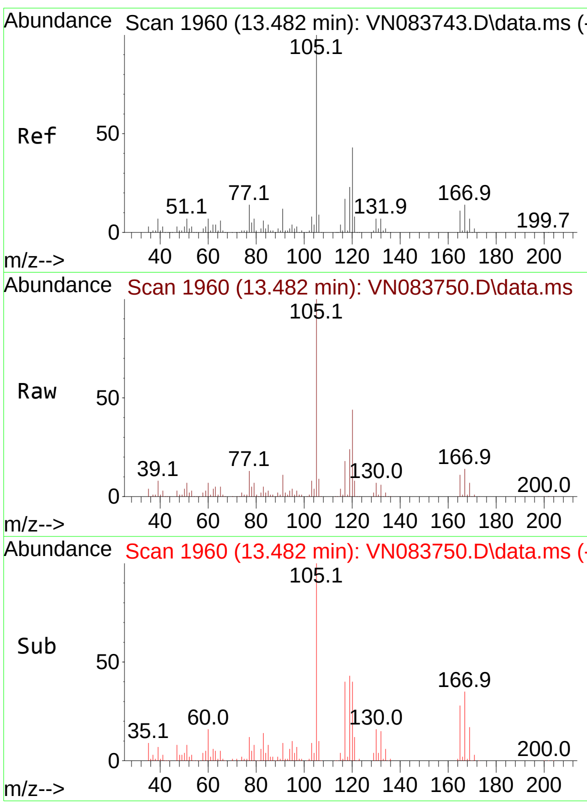
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Tgt Ion:119 Resp: 37184

Ion	Ratio	Lower	Upper
119	100		
91	70.5	34.5	103.6
134	26.4	12.8	38.4

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

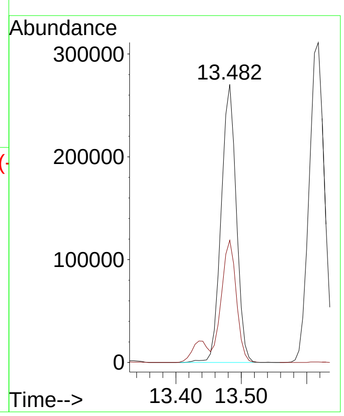


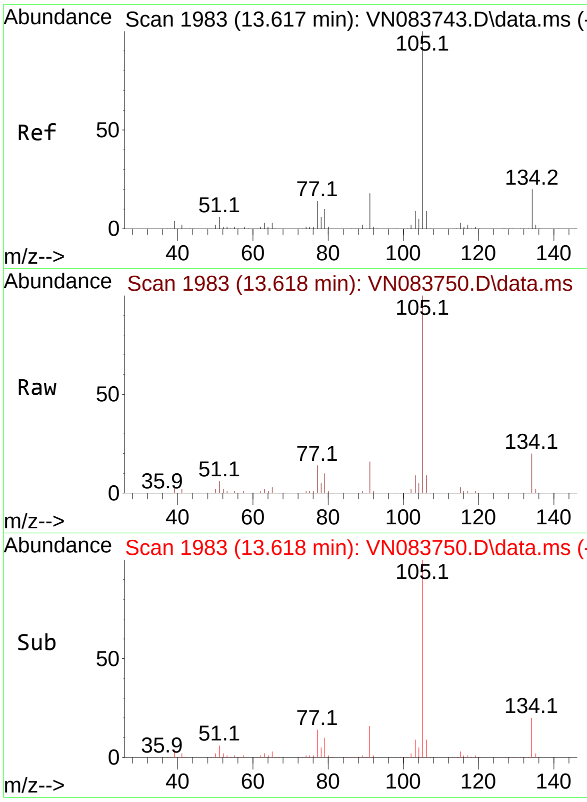


#84
1,2,4-Trimethylbenzene
Concen: 52.865 ug/l
RT: 13.482 min   Scan# 1960
Delta R.T.   0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024   13:36

Tgt Ion:105 Resp: 432216

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.8	65.4





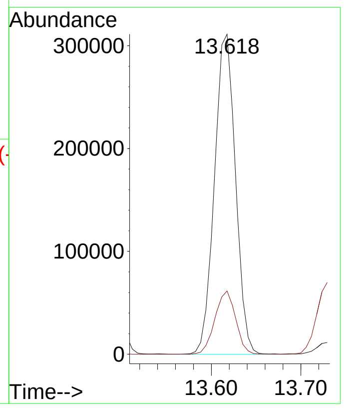
#85
sec-Butylbenzene
Concen: 53.783 ug/l
RT: 13.618 min   Scan# 19
Delta R.T.   0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024   13:36

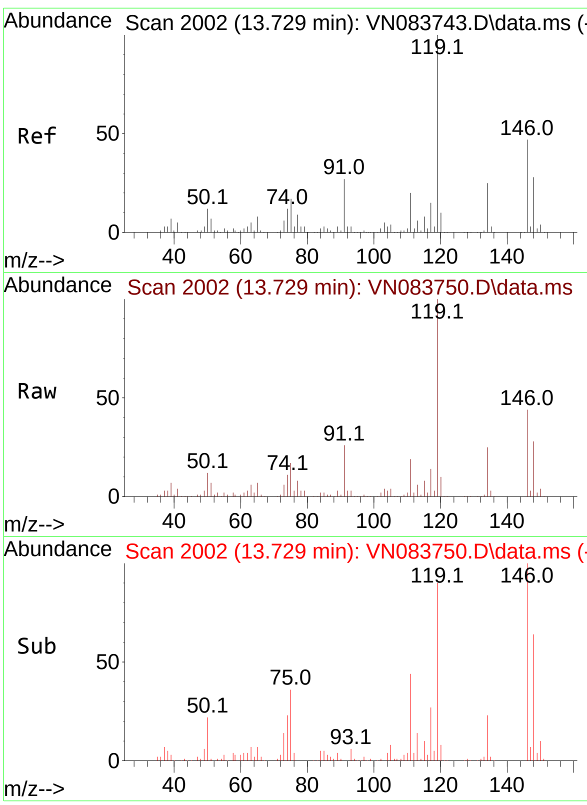
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Tgt Ion:105 Resp: 50791

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

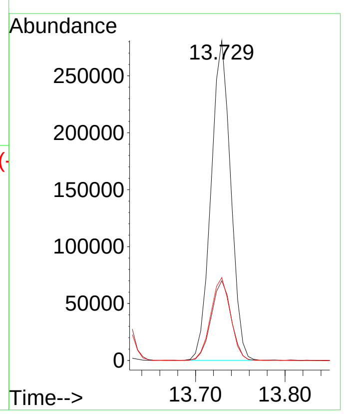


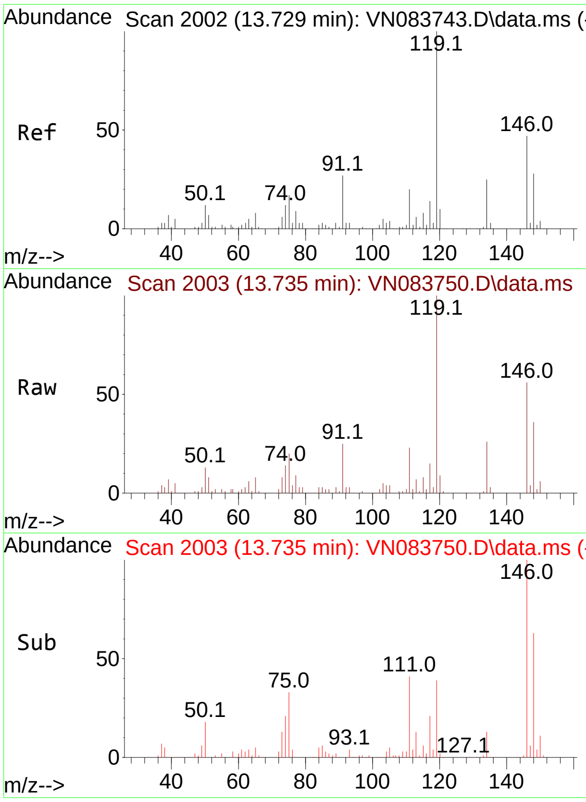


#86
p-Isopropyltoluene
Concen: 54.013 ug/l
RT: 13.729 min   Scan# 2002
Delta R.T.   0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024   13:36

Tgt Ion:119 Resp: 427591

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.8	38.3
91	26.1	12.9	38.7

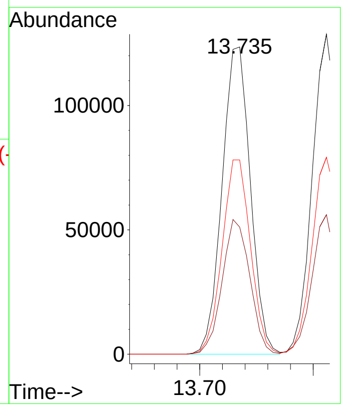




#87
1,3-Dichlorobenzene
Concen: 48.903 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:146 Resp: 21446

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.7	65.1
148	63.5	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

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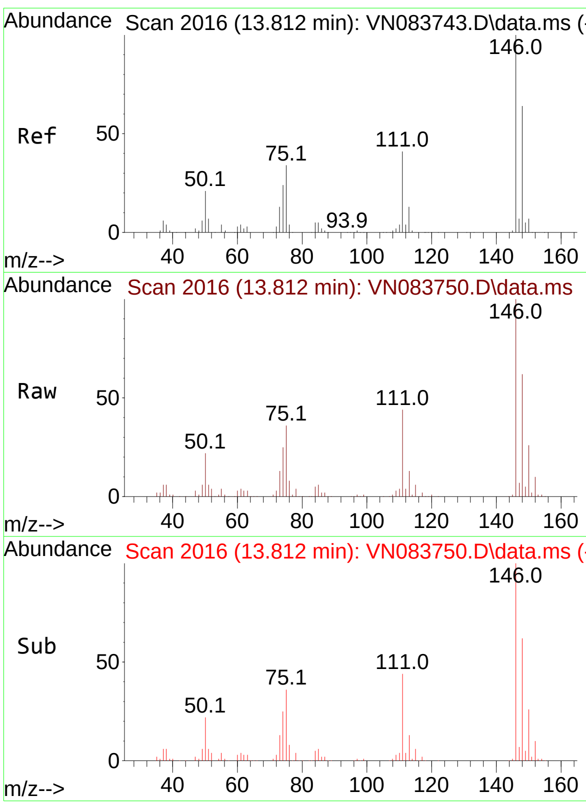
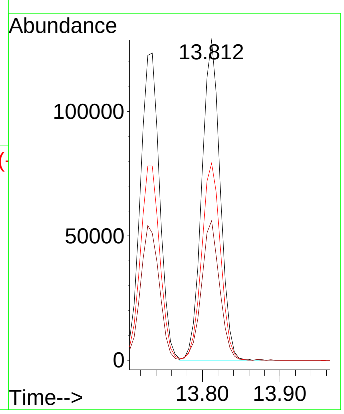
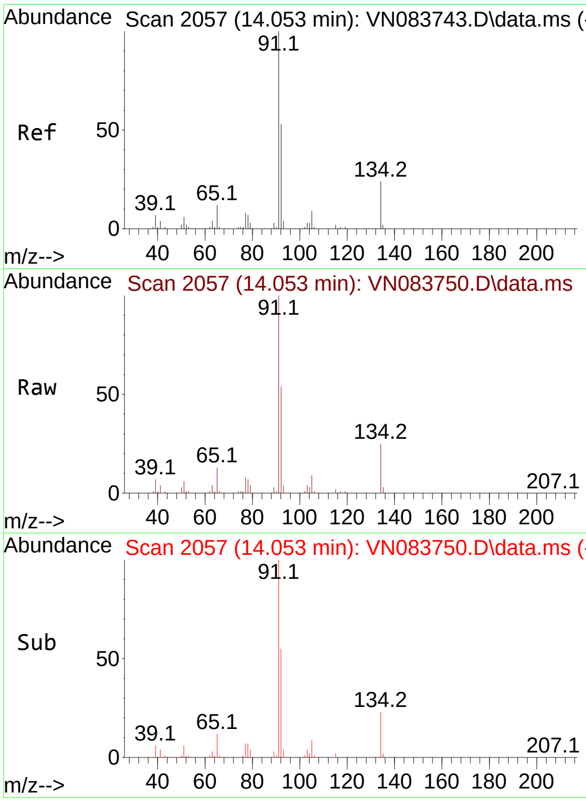


#88
1,4-Dichlorobenzene
Concen: 47.783 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:146 Resp: 212191

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.3	64.0
148	63.0	32.0	96.2





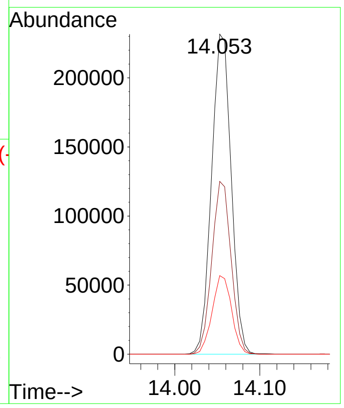
#89
n-Butylbenzene
Concen: 52.293 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 91 Resp: 37168

Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.7	80.1
134	24.2	12.2	36.4

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



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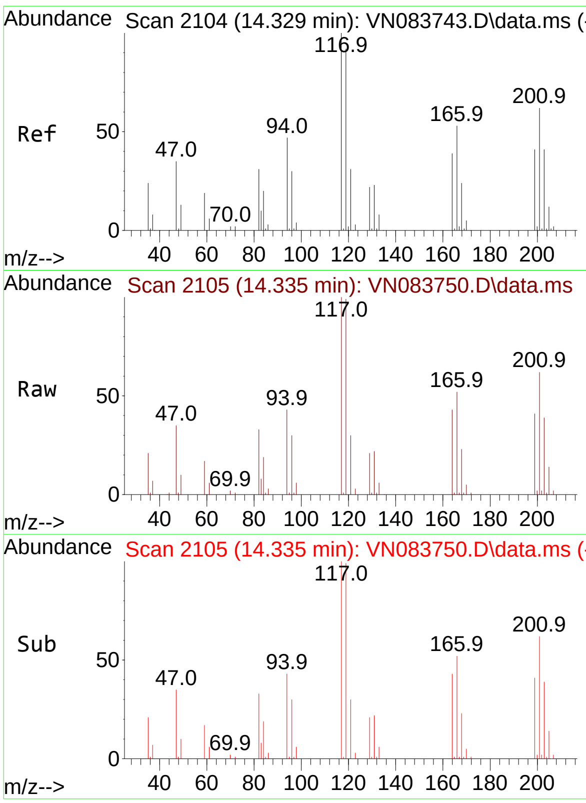
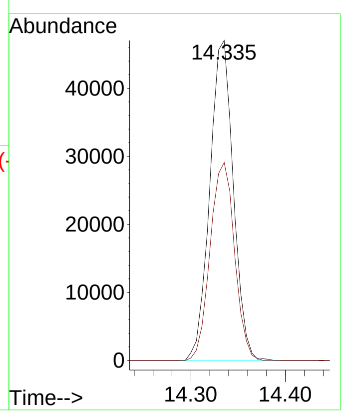
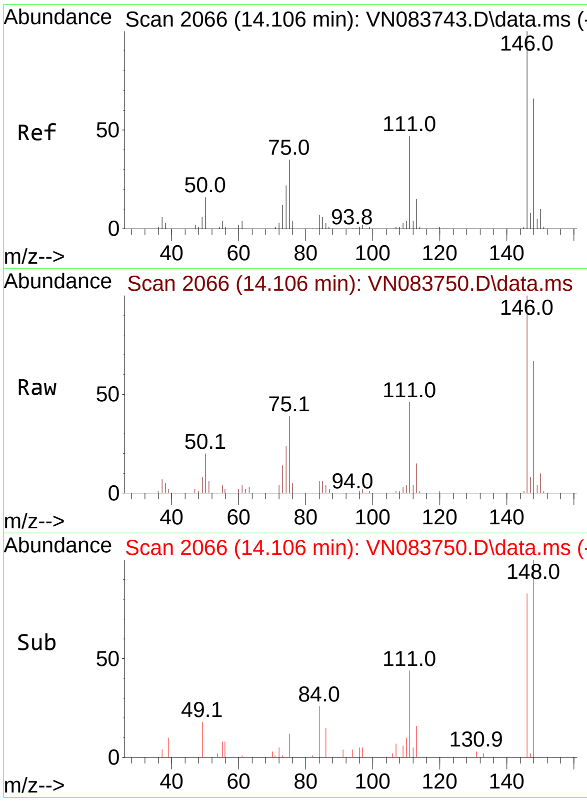


#90
Hexachloroethane
Concen: 51.172 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:117 Resp: 81433

Ion	Ratio	Lower	Upper
117	100		
201	64.0	32.8	98.3

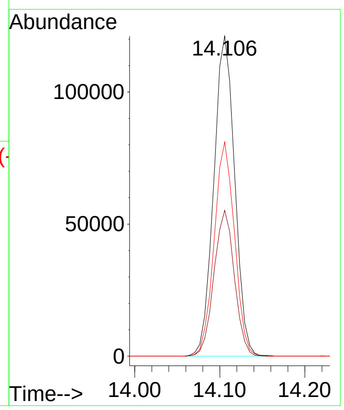




#91
1,2-Dichlorobenzene
Concen: 49.147 ug/l
RT: 14.106 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:146 Resp: 20801

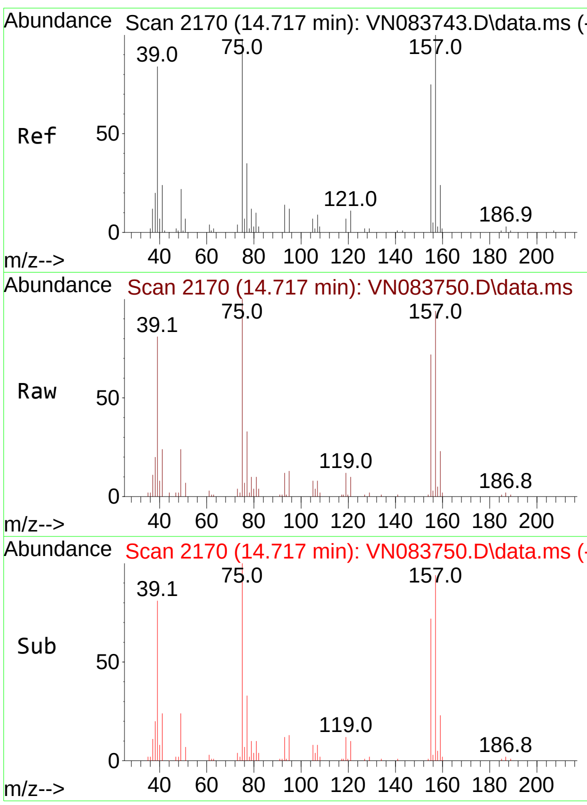
Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.8	68.3
148	65.1	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations APPROVED

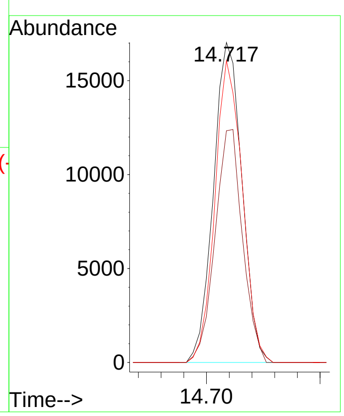
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



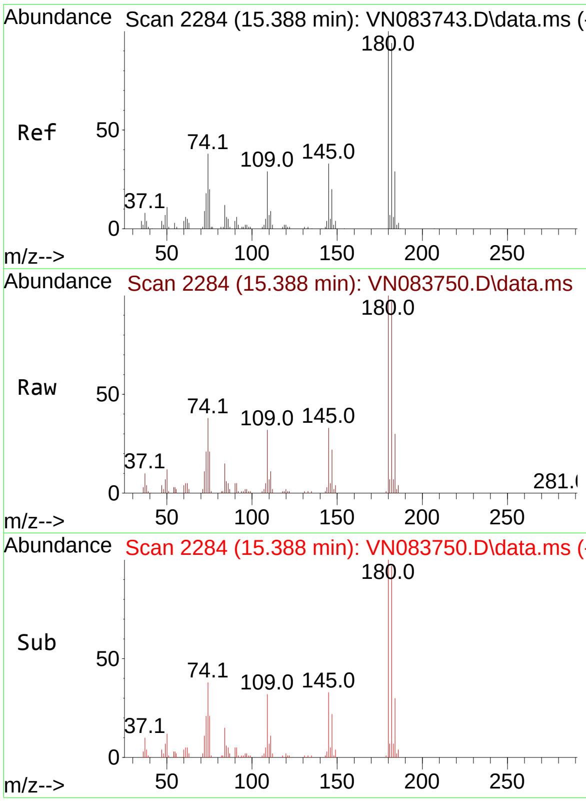
#92
1,2-Dibromo-3-Chloropropane
Concen: 52.701 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion: 75 Resp: 29799

Ion	Ratio	Lower	Upper
75	100		
155	70.2	35.9	107.7
157	90.5	47.5	142.5



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#93
1,2,4-Trichlorobenzene
Concen: 49.382 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

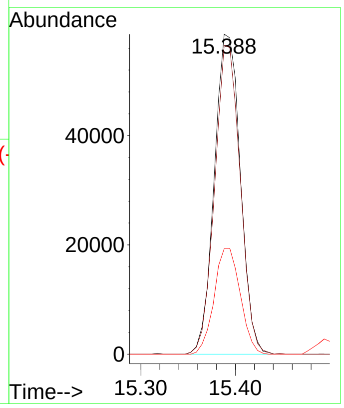
Tgt Ion:180 Resp: 11215

Ion	Ratio	Lower	Upper
180	100		
182	94.6	48.1	144.3
145	33.1	16.9	50.7

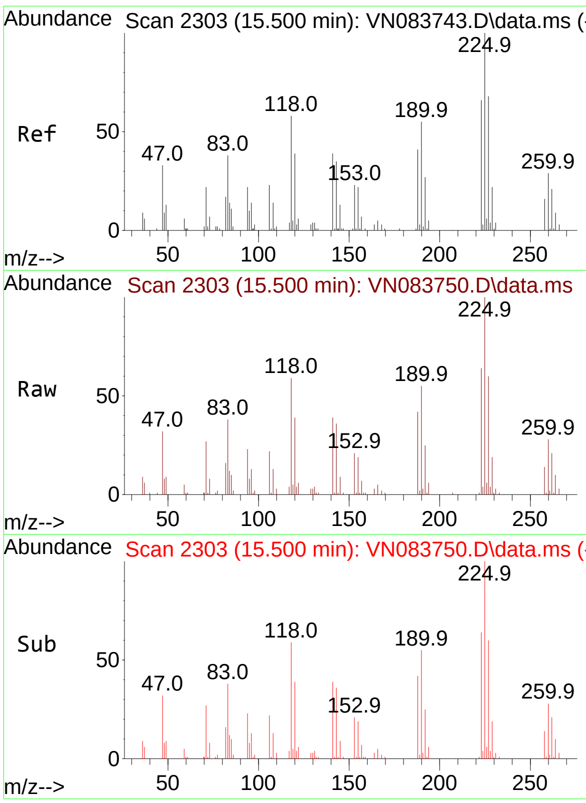
Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



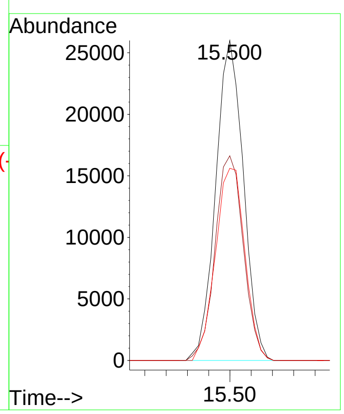
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#94
Hexachlorobutadiene
Concen: 48.740 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

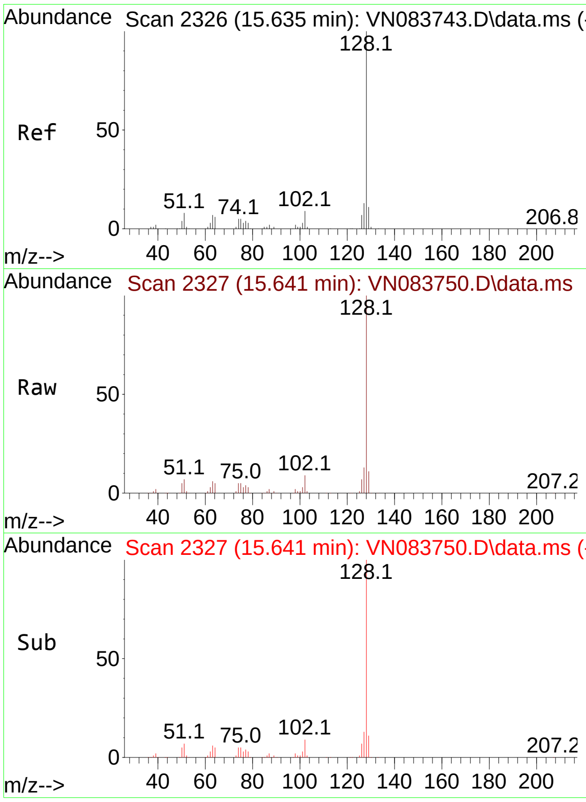
Tgt Ion:225 Resp: 47012

Ion	Ratio	Lower	Upper
225	100		
223	65.3	31.9	95.5
227	64.0	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

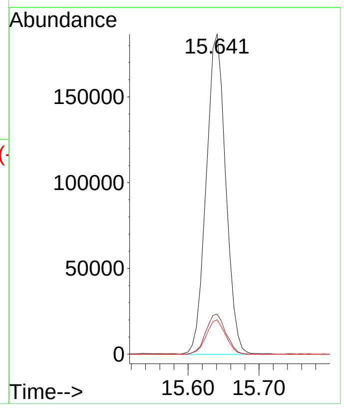
Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

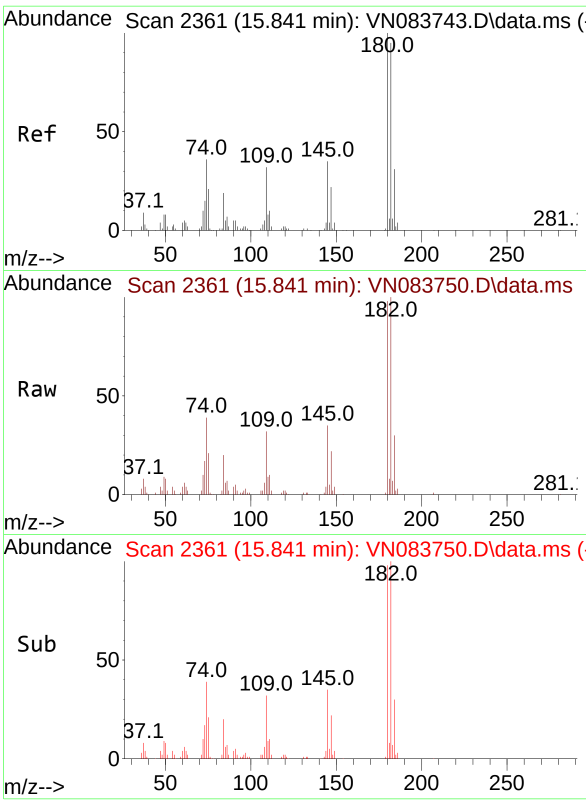


#95
Naphthalene
Concen: 51.621 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:128 Resp: 35669

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.6	8.7	13.1

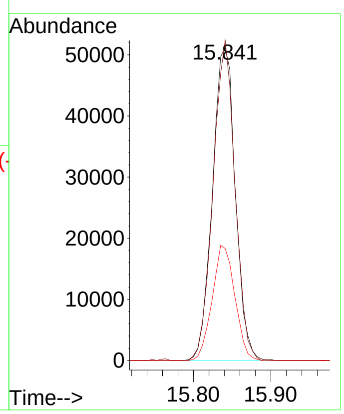




#96
1,2,3-Trichlorobenzene
Concen: 48.497 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083750.D
Acq: 10 Sep 2024 13:36

Tgt Ion:180 Resp: 105270

Ion	Ratio	Lower	Upper
180	100		
182	98.0	47.1	141.4
145	36.3	17.8	53.5



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	97	0.00
2	T	Dichlorodifluoromethane	0.581	0.613	-5.5	99	0.00
3	P	Chloromethane	0.707	0.619	12.4	96	0.00
4	C	Vinyl Chloride	0.636	0.635	0.2#	93	0.00
5	T	Bromomethane	0.365	0.358	1.9	96	0.00
6	T	Chloroethane	0.446	0.425	4.7	95	0.00
7	T	Trichlorofluoromethane	1.080	1.080	0.0	98	0.00
8	T	Diethyl Ether	0.362	0.369	-1.9	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.573	0.590	-3.0	97	0.00
10	T	Methyl Iodide	0.728	0.756	-3.8	96	0.00
11	T	Tert butyl alcohol	0.101	0.101	0.0	96	0.00
12	CM	1,1-Dichloroethene	0.541	0.556	-2.8#	96	0.00
13	T	Acrolein	0.100	0.088	12.0	82	0.00
14	T	Allyl chloride	0.964	0.986	-2.3	95	0.00
15	T	Acrylonitrile	0.275	0.278	-1.1	97	0.00
16	T	Acetone	0.302	0.305	-1.0	99	0.00
17	T	Carbon Disulfide	1.513	1.479	2.2	93	0.00
18	T	Methyl Acetate	0.735	0.662	9.9	96	0.00
19	T	Methyl tert-butyl Ether	1.957	1.973	-0.8	95	0.00
20	T	Methylene Chloride	0.618	0.600	2.9	95	0.00
21	T	trans-1,2-Dichloroethene	0.580	0.568	2.1	94	0.00
22	T	Diisopropyl ether	1.984	2.039	-2.8	96	0.00
23	T	Vinyl Acetate	1.453	1.552	-6.8	97	0.00
24	P	1,1-Dichloroethane	1.143	1.126	1.5	95	0.00
25	T	2-Butanone	0.397	0.406	-2.3	100	0.00
26	T	2,2-Dichloropropane	1.052	1.091	-3.7	96	0.00
27	T	cis-1,2-Dichloroethene	0.688	0.692	-0.6	93	0.00
28	T	Bromochloromethane	0.481	0.501	-4.2	92	0.00
29	T	Tetrahydrofuran	0.235	0.245	-4.3	98	0.00
30	C	Chloroform	1.213	1.217	-0.3#	96	0.00
31	T	Cyclohexane	1.090	1.038	4.8	99	0.00
32	T	1,1,1-Trichloroethane	1.116	1.123	-0.6	95	0.00
33	S	1,2-Dichloroethane-d4	0.754	0.741	1.7	84	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35	S	Dibromofluoromethane	0.320	0.319	0.3	86	0.00
36	T	1,1-Dichloropropene	0.482	0.498	-3.3	97	0.00
37	T	Ethyl Acetate	0.437	0.481	-10.1	96	0.00
38	T	Carbon Tetrachloride	0.547	0.585	-6.9	96	0.00
39	T	Methylcyclohexane	0.548	0.607	-10.8	97	0.00
40	TM	Benzene	1.450	1.523	-5.0	97	0.00
41	T	Methacrylonitrile	0.259	0.280	-8.1	97	0.00
42	TM	1,2-Dichloroethane	0.542	0.572	-5.5	96	0.00
43	T	Isopropyl Acetate	0.792	0.843	-6.4	97	0.00
44	TM	Trichloroethene	0.336	0.350	-4.2	94	0.00
45	C	1,2-Dichloropropane	0.350	0.369	-5.4#	97	0.00
46	T	Dibromomethane	0.245	0.264	-7.8	95	0.00
47	T	Bromodichloromethane	0.531	0.563	-6.0	94	0.00
48	T	Methyl methacrylate	0.376	0.415	-10.4	101	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : ICVVN091024

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.006	0.006	0.0	99	0.00
50	S	Toluene-d8	1.107	1.170	-5.7	84	0.00
51	T	4-Methyl-2-Pentanone	0.431	0.471	-9.3	97	0.00
52	CM	Toluene	0.887	0.953	-7.4#	96	0.00
53	T	t-1,3-Dichloropropene	0.539	0.593	-10.0	97	0.00
54	T	cis-1,3-Dichloropropene	0.566	0.610	-7.8	95	0.00
55	T	1,1,2-Trichloroethane	0.331	0.352	-6.3	98	0.00
56	T	Ethyl methacrylate	0.509	0.584	-14.7	96	0.00
57	T	1,3-Dichloropropane	0.569	0.605	-6.3	96	0.00
58	T	2-Chloroethyl Vinyl ether	0.184	0.177	3.8	94	0.00
59	T	2-Hexanone	0.319	0.359	-12.5	100	0.00
60	T	Dibromochloromethane	0.371	0.410	-10.5	96	0.00
61	T	1,2-Dibromoethane	0.330	0.350	-6.1	97	0.00
62	S	4-Bromofluorobenzene	0.457	0.459	-0.4	86	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	T	Tetrachloroethene	0.333	0.332	0.3	98	0.00
65	PM	Chlorobenzene	1.111	1.105	0.5	96	0.00
66	T	1,1,1,2-Tetrachloroethane	0.385	0.399	-3.6	96	0.00
67	C	Ethyl Benzene	1.974	2.090	-5.9#	97	0.00
68	T	m/p-Xylenes	0.733	0.781	-6.5	98	0.00
69	T	o-Xylene	0.710	0.756	-6.5	97	0.00
70	T	Styrene	1.164	1.259	-8.2	96	0.00
71	P	Bromoform	0.260	0.288	-10.8	98	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	3.868	4.027	-4.1	97	0.00
74	T	N-amyl acetate	1.650	1.718	-4.1	97	0.00
75	P	1,1,2,2-Tetrachloroethane	1.137	1.097	3.5	98	0.00
76	T	1,2,3-Trichloropropane	1.009	0.958	5.1	99	0.00
77	T	Bromobenzene	0.931	0.892	4.2	97	0.00
78	T	n-propylbenzene	4.501	4.697	-4.4	97	0.00
79	T	2-Chlorotoluene	2.870	2.888	-0.6	98	0.00
80	T	1,3,5-Trimethylbenzene	3.261	3.405	-4.4	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.385	0.405	-5.2	96	0.00
82	T	4-Chlorotoluene	2.880	2.900	-0.7	96	0.00
83	T	tert-Butylbenzene	2.853	2.980	-4.5	97	0.00
84	T	1,2,4-Trimethylbenzene	3.276	3.464	-5.7	97	0.00
85	T	sec-Butylbenzene	3.784	4.070	-7.6	98	0.00
86	T	p-Isopropyltoluene	3.172	3.427	-8.0	97	0.00
87	T	1,3-Dichlorobenzene	1.757	1.719	2.2	97	0.00
88	T	1,4-Dichlorobenzene	1.779	1.701	4.4	96	0.00
89	T	n-Butylbenzene	2.848	2.979	-4.6	97	0.00
90	T	Hexachloroethane	0.638	0.653	-2.4	100	0.00
91	T	1,2-Dichlorobenzene	1.696	1.667	1.7	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.227	0.239	-5.3	99	0.00
93	T	1,2,4-Trichlorobenzene	0.910	0.899	1.2	94	0.00
94	T	Hexachlorobutadiene	0.386	0.377	2.3	99	0.00
95	T	Naphthalene	2.769	2.859	-3.3	93	0.00

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.870	0.844	3.0	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : ICVVN091024

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	97	0.00
2	T	Dichlorodifluoromethane	50.000	52.821	-5.6	99	0.00
3	P	Chloromethane	50.000	52.272	-4.5	96	0.00
4	C	Vinyl Chloride	50.000	49.874	0.3#	93	0.00
5	T	Bromomethane	50.000	48.990	2.0	96	0.00
6	T	Chloroethane	50.000	47.641	4.7	95	0.00
7	T	Trichlorofluoromethane	50.000	49.971	0.1	98	0.00
8	T	Diethyl Ether	50.000	51.008	-2.0	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.544	-3.1	97	0.00
10	T	Methyl Iodide	50.000	51.932	-3.9	96	0.00
11	T	Tert butyl alcohol	250.000	248.972	0.4	96	0.00
12	CM	1,1-Dichloroethene	50.000	51.382	-2.8#	96	0.00
13	T	Acrolein	250.000	221.776	11.3	82	0.00
14	T	Allyl chloride	50.000	51.173	-2.3	95	0.00
15	T	Acrylonitrile	250.000	253.015	-1.2	97	0.00
16	T	Acetone	250.000	252.037	-0.8	99	0.00
17	T	Carbon Disulfide	50.000	48.898	2.2	93	0.00
18	T	Methyl Acetate	50.000	52.663	-5.3	96	0.00
19	T	Methyl tert-butyl Ether	50.000	50.422	-0.8	95	0.00
20	T	Methylene Chloride	50.000	48.470	3.1	95	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.020	2.0	94	0.00
22	T	Diisopropyl ether	50.000	51.404	-2.8	96	0.00
23	T	Vinyl Acetate	250.000	267.118	-6.8	97	0.00
24	P	1,1-Dichloroethane	50.000	49.262	1.5	95	0.00
25	T	2-Butanone	250.000	255.394	-2.2	100	0.00
26	T	2,2-Dichloropropane	50.000	51.834	-3.7	96	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.270	-0.5	93	0.00
28	T	Bromochloromethane	50.000	52.080	-4.2	92	0.00
29	T	Tetrahydrofuran	250.000	260.627	-4.3	98	0.00
30	C	Chloroform	50.000	50.138	-0.3#	96	0.00
31	T	Cyclohexane	50.000	47.623	4.8	99	0.00
32	T	1,1,1-Trichloroethane	50.000	50.318	-0.6	95	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.116	1.8	84	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35	S	Dibromofluoromethane	50.000	49.858	0.3	86	0.00
36	T	1,1-Dichloropropene	50.000	51.650	-3.3	97	0.00
37	T	Ethyl Acetate	50.000	54.953	-9.9	96	0.00
38	T	Carbon Tetrachloride	50.000	53.514	-7.0	96	0.00
39	T	Methylcyclohexane	50.000	55.386	-10.8	97	0.00
40	TM	Benzene	50.000	52.529	-5.1	97	0.00
41	T	Methacrylonitrile	50.000	54.088	-8.2	97	0.00
42	TM	1,2-Dichloroethane	50.000	52.791	-5.6	96	0.00
43	T	Isopropyl Acetate	50.000	53.180	-6.4	97	0.00
44	TM	Trichloroethene	50.000	52.111	-4.2	94	0.00
45	C	1,2-Dichloropropane	50.000	52.608	-5.2#	97	0.00
46	T	Dibromomethane	50.000	53.838	-7.7	95	0.00
47	T	Bromodichloromethane	50.000	53.018	-6.0	94	0.00
48	T	Methyl methacrylate	50.000	55.216	-10.4	101	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1050.868	-5.1	99	0.00
50	S	Toluene-d8	50.000	52.850	-5.7	84	0.00
51	T	4-Methyl-2-Pentanone	250.000	272.839	-9.1	97	0.00
52	CM	Toluene	50.000	53.732	-7.5#	96	0.00
53	T	t-1,3-Dichloropropene	50.000	55.091	-10.2	97	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.937	-7.9	95	0.00
55	T	1,1,2-Trichloroethane	50.000	53.075	-6.2	98	0.00
56	T	Ethyl methacrylate	50.000	57.314	-14.6	96	0.00
57	T	1,3-Dichloropropane	50.000	53.152	-6.3	96	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	240.626	3.7	94	0.00
59	T	2-Hexanone	250.000	281.422	-12.6	100	0.00
60	T	Dibromochloromethane	50.000	55.330	-10.7	96	0.00
61	T	1,2-Dibromoethane	50.000	53.026	-6.1	97	0.00
62	S	4-Bromofluorobenzene	50.000	50.260	-0.5	86	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64	T	Tetrachloroethene	50.000	49.891	0.2	98	0.00
65	PM	Chlorobenzene	50.000	49.726	0.5	96	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.726	-3.5	96	0.00
67	C	Ethyl Benzene	50.000	52.932	-5.9#	97	0.00
68	T	m/p-Xylenes	100.000	106.586	-6.6	98	0.00
69	T	o-Xylene	50.000	53.308	-6.6	97	0.00
70	T	Styrene	50.000	54.056	-8.1	96	0.00
71	P	Bromoform	50.000	55.401	-10.8	98	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	52.053	-4.1	97	0.00
74	T	N-amyl acetate	50.000	52.045	-4.1	97	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.260	3.5	98	0.00
76	T	1,2,3-Trichloropropane	50.000	48.674	2.7	99	0.00
77	T	Bromobenzene	50.000	47.901	4.2	97	0.00
78	T	n-propylbenzene	50.000	52.176	-4.4	97	0.00
79	T	2-Chlorotoluene	50.000	50.314	-0.6	98	0.00
80	T	1,3,5-Trimethylbenzene	50.000	52.201	-4.4	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.525	-5.0	96	0.00
82	T	4-Chlorotoluene	50.000	50.343	-0.7	96	0.00
83	T	tert-Butylbenzene	50.000	52.220	-4.4	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	52.865	-5.7	97	0.00
85	T	sec-Butylbenzene	50.000	53.783	-7.6	98	0.00
86	T	p-Isopropyltoluene	50.000	54.013	-8.0	97	0.00
87	T	1,3-Dichlorobenzene	50.000	48.903	2.2	97	0.00
88	T	1,4-Dichlorobenzene	50.000	47.783	4.4	96	0.00
89	T	n-Butylbenzene	50.000	52.293	-4.6	97	0.00
90	T	Hexachloroethane	50.000	51.172	-2.3	100	0.00
91	T	1,2-Dichlorobenzene	50.000	49.147	1.7	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.701	-5.4	99	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.382	1.2	94	0.00
94	T	Hexachlorobutadiene	50.000	48.740	2.5	99	0.00
95	T	Naphthalene	50.000	51.621	-3.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083750.D
Acq On : 10 Sep 2024 13:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN091024

Quant Time: Sep 11 03:12:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.497	3.0	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

Instrument ID: MSVOA_N Calibration Date/Time: 09/11/2024 12:59

Lab File ID: VN083791.D Init. Calib. Date(s): 09/10/2024 09/10/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:08 12:43

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

COMPOUND	RRF (mean)	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.581	0.608		4.65	20
Chloromethane	0.707	0.632	0.1	-10.61	20
Vinyl Chloride	0.636	0.645		1.41	20
Ethyl Acetate	0.437	0.509		16.48	20
Isopropyl Acetate	0.792	1.121		41.54	20
Bromomethane	0.365	0.366		0.27	20
Chloroethane	0.446	0.435		-2.47	20
Trichlorofluoromethane	1.080	1.102		2.04	20
1,1,2-Trichlorotrifluoroethane	0.573	0.610		6.46	20
Tert butyl alcohol	0.101	0.108		6.93	20
Diethyl Ether	0.362	0.376		3.87	20
1,1-Dichloroethene	0.541	0.546		0.92	20
Acrolein	0.100	0.101		1	20
Acrylonitrile	0.275	0.290		5.45	20
Acetone	0.302	0.326		7.95	20
Carbon Disulfide	1.513	1.434		-5.22	20
Methyl tert-butyl Ether	1.957	2.039		4.19	20
Methyl Acetate	0.735	0.703		-4.35	20
Methylene Chloride	0.618	0.628		1.62	20
trans-1,2-Dichloroethene	0.580	0.566		-2.41	20
Vinyl Acetate	1.453	1.609		10.74	20
1,1-Dichloroethane	1.143	1.149	0.1	0.52	20
Cyclohexane	1.090	1.023		-6.15	20
2-Butanone	0.397	0.423		6.55	20
Carbon Tetrachloride	0.547	0.579		5.85	20
2,2-Dichloropropane	1.052	1.120		6.46	20
cis-1,2-Dichloroethene	0.688	0.705		2.47	20
Chloroform	1.213	1.232		1.57	20
1,1,1-Trichloroethane	1.116	1.149		2.96	20
Methylcyclohexane	0.548	0.600		9.49	20
1,1-Dichloropropene	0.482	0.494		2.49	20
Benzene	1.450	1.541		6.28	20
1,2-Dichloroethane	0.542	0.581		7.2	20
Trichloroethene	0.336	0.352		4.76	20
1,2-Dichloropropane	0.350	0.380		8.57	20
Dibromomethane	0.245	0.264		7.76	20
Bromodichloromethane	0.531	0.588		10.73	20
4-Methyl-2-Pentanone	0.431	0.497		15.31	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

Instrument ID: MSVOA_N Calibration Date/Time: 09/11/2024 12:59

Lab File ID: VN083791.D Init. Calib. Date(s): 09/10/2024 09/10/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:08 12:43

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl methacrylate	0.376	0.431		14.63	20
Toluene	0.887	0.956		7.78	20
t-1,3-Dichloropropene	0.539	0.591		9.65	20
cis-1,3-Dichloropropene	0.566	0.623		10.07	20
1,1,2-Trichloroethane	0.331	0.352		6.34	20
1,3-Dichloropropane	0.569	0.618		8.61	20
2-Chloroethyl Vinyl ether	0.184	0.242		31.52	20
2-Hexanone	0.319	0.373		16.93	20
Dibromochloromethane	0.371	0.416		12.13	20
1,2-Dibromoethane	0.330	0.358		8.48	20
Tetrachloroethene	0.333	0.338		1.5	20
Chlorobenzene	1.111	1.131	0.3	1.8	20
1,1,1,2-Tetrachloroethane	0.385	0.405		5.2	20
Hexachloroethane	0.638	0.655		2.66	20
Ethyl Benzene	1.974	2.126		7.7	20
m/p-Xylenes	0.733	0.787		7.37	20
o-Xylene	0.710	0.775		9.15	20
Styrene	1.164	1.300		11.68	20
Bromoform	0.260	0.301	0.1	15.77	20
Isopropylbenzene	3.868	3.980		2.9	20
1,1,2,2-Tetrachloroethane	1.137	1.122	0.3	-1.32	20
1,2,3-Trichloropropane	0.984	0.979		-0.51	20
Bromobenzene	0.931	0.895		-3.87	20
n-propylbenzene	4.501	4.733		5.15	20
2-Chlorotoluene	2.870	2.869		-0.04	20
1,3,5-Trimethylbenzene	3.261	3.387		3.86	20
4-Chlorotoluene	2.880	2.920		1.39	20
tert-Butylbenzene	2.853	2.994		4.94	20
1,2,4-Trimethylbenzene	3.276	3.444		5.13	20
sec-Butylbenzene	3.784	4.068		7.51	20
p-Isopropyltoluene	3.172	3.419		7.79	20
1,3-Dichlorobenzene	1.757	1.693		-3.64	20
1,4-Dichlorobenzene	1.779	1.686		-5.28	20
n-Butylbenzene	2.848	2.956		3.79	20
1,2-Dichlorobenzene	1.696	1.687		-0.53	20
1,2-Dibromo-3-Chloropropane	0.227	0.247		8.81	20
1,2,4-Trichlorobenzene	0.910	0.894		-1.76	20
Hexachlorobutadiene	0.386	0.372		-3.63	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

Instrument ID: MSVOA_N Calibration Date/Time: 09/11/2024 12:59

Lab File ID: VN083791.D Init. Calib. Date(s): 09/10/2024 09/10/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:08 12:43

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

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX%D
Naphthalene	2.769	2.910		5.09	20
1,2,3-Trichlorobenzene	0.870	0.854		-1.84	20
1,2-Dichloroethane-d4	0.754	0.740		-1.86	20
Dibromofluoromethane	0.320	0.308		-3.75	20
Toluene-d8	1.107	1.130		2.08	20
4-Bromofluorobenzene	0.457	0.447		-2.19	20
N-amyl acetate	1.650	1.801		9.15	20
Allyl chloride	0.964	1.011		4.88	20
trans-1,4-Dichloro-2-butene	0.385	0.411		6.75	20
Methacrylonitrile	0.259	0.292		12.74	20
1,4-Dioxane	6.185	6.891	0.05	11.41	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On : 11 Sep 2024 12:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.224	168	152640	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	259748	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	228788	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	116418	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.577	65	113022	49.106 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.220%		
35) Dibromofluoromethane	8.165	113	80124	48.184 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.360%		
50) Toluene-d8	10.565	98	293562	51.066 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.140%		
62) 4-Bromofluorobenzene	12.847	95	116001	48.909 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.820%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.124	85	92853	52.380 ug/l	95
3) Chloromethane	2.359	50	96483	53.426 ug/l	97
4) Vinyl Chloride	2.512	62	98446	50.667 ug/l	96
5) Bromomethane	2.906	94	55805	50.023 ug/l	100
6) Chloroethane	3.077	64	66402	48.719 ug/l	93
7) Trichlorofluoromethane	3.471	101	168204	50.999 ug/l	97
8) Diethyl Ether	3.953	74	57405	51.923 ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	93036	53.219 ug/l	97
10) Methyl Iodide	4.583	142	114902	51.680 ug/l	96
11) Tert butyl alcohol	5.530	59	82327	267.118 ug/l	99
12) 1,1-Dichloroethene	4.330	96	83287	50.448 ug/l	96
13) Acrolein	4.171	56	77151	253.706 ug/l	96
14) Allyl chloride	5.012	41	154256	52.436 ug/l	98
15) Acrylonitrile	5.712	53	221249	263.967 ug/l	98
16) Acetone	4.424	43	248789	269.645 ug/l	99
17) Carbon Disulfide	4.700	76	218851	47.389 ug/l	99
18) Methyl Acetate	5.024	43	107359	56.072 ug/l	100
19) Methyl tert-butyl Ether	5.794	73	311194	52.089 ug/l	98
20) Methylene Chloride	5.271	84	95892	50.788 ug/l	87
21) trans-1,2-Dichloroethene	5.777	96	86440	48.855 ug/l	89
22) Diisopropyl ether	6.671	45	322165	53.200 ug/l	98
23) Vinyl Acetate	6.600	43	1228060	276.919 ug/l	99
24) 1,1-Dichloroethane	6.565	63	175379	50.268 ug/l	99
25) 2-Butanone	7.482	43	322514	265.951 ug/l	98
26) 2,2-Dichloropropane	7.488	77	170992	53.219 ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	107623	51.241 ug/l	97
28) Bromochloromethane	7.812	49	73121	49.768 ug/l	96
29) Tetrahydrofuran	7.835	42	196268	273.716 ug/l	98
30) Chloroform	7.965	83	187996	50.756 ug/l	98
31) Cyclohexane	8.253	56	156154	46.943 ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	175429	51.509 ug/l	98
36) 1,1-Dichloropropene	8.365	75	128219	51.229 ug/l	99
37) Ethyl Acetate	7.559	43	132317	58.242 ug/l	98
38) Carbon Tetrachloride	8.359	117	150427	52.977 ug/l	100
39) Methylcyclohexane	9.600	83	155833	54.700 ug/l	99
40) Benzene	8.600	78	400377	53.148 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On : 11 Sep 2024 12:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41)	Methacrylonitrile	7.771	41	75956	56.528	ug/l		97
42)	1,2-Dichloroethane	8.671	62	150827	53.581	ug/l		100
43)	Isopropyl Acetate	8.688	43	291272	70.750	ug/l		93
44)	Trichloroethene	9.353	130	91400	52.393	ug/l		97
45)	1,2-Dichloropropane	9.618	63	98666	54.190	ug/l		98
46)	Dibromomethane	9.706	93	68589	53.782	ug/l		99
47)	Bromodichloromethane	9.888	83	152824	55.370	ug/l		97
48)	Methyl methacrylate	9.682	41	111880	57.280	ug/l		98
49)	1,4-Dioxane	9.694	88	35797	1114.069	ug/l	#	100
51)	4-Methyl-2-Pentanone	10.447	43	645061	287.840	ug/l		98
52)	Toluene	10.629	92	248372	53.901	ug/l		98
53)	t-1,3-Dichloropropene	10.835	75	153430	54.843	ug/l		100
54)	cis-1,3-Dichloropropene	10.312	75	161745	55.039	ug/l		98
55)	1,1,2-Trichloroethane	11.012	97	91325	53.088	ug/l		98
56)	Ethyl methacrylate	10.876	69	154978	58.555	ug/l		96
57)	1,3-Dichloropropane	11.165	76	160620	54.326	ug/l		100
58)	2-Chloroethyl Vinyl ether	10.159	63	314176	329.440	ug/l		97
59)	2-Hexanone	11.194	43	484844	292.470	ug/l		98
60)	Dibromochloromethane	11.359	129	107933	56.063	ug/l		99
61)	1,2-Dibromoethane	11.470	107	92995	54.204	ug/l		98
64)	Tetrachloroethene	11.100	164	77234	50.762	ug/l		97
65)	Chlorobenzene	11.888	112	258778	50.891	ug/l		100
66)	1,1,1,2-Tetrachloroethane	11.959	131	92724	52.601	ug/l		98
67)	Ethyl Benzene	11.965	91	486481	53.856	ug/l		98
68)	m/p-Xylenes	12.070	106	360018	107.352	ug/l		98
69)	o-Xylene	12.400	106	177365	54.632	ug/l		98
70)	Styrene	12.412	104	297348	55.807	ug/l		99
71)	Bromoform	12.582	173	68948	58.043	ug/l	#	99
73)	Isopropylbenzene	12.694	105	463364	51.446	ug/l		99
74)	N-amyl acetate	12.494	43	209696	54.568	ug/l		98
75)	1,1,2,2-Tetrachloroethane	12.935	83	130573	49.340	ug/l		98
76)	1,2,3-Trichloropropane	12.994	75	113955m	48.510	ug/l		
77)	Bromobenzene	12.976	156	104216	48.069	ug/l		99
78)	n-propylbenzene	13.035	91	550980	52.577	ug/l		99
79)	2-Chlorotoluene	13.123	91	333983	49.973	ug/l		99
80)	1,3,5-Trimethylbenzene	13.170	105	394325	51.928	ug/l		100
81)	trans-1,4-Dichloro-2-b...	12.735	75	47836	53.334	ug/l		87
82)	4-Chlorotoluene	13.223	91	339883	50.677	ug/l		100
83)	tert-Butylbenzene	13.435	119	348498	52.456	ug/l		99
84)	1,2,4-Trimethylbenzene	13.482	105	400930	52.561	ug/l		100
85)	sec-Butylbenzene	13.617	105	473533	53.744	ug/l		99
86)	p-Isopropyltoluene	13.729	119	398051	53.893	ug/l		99
87)	1,3-Dichlorobenzene	13.735	146	197047	48.158	ug/l		99
88)	1,4-Dichlorobenzene	13.811	146	196222	47.361	ug/l		99
89)	n-Butylbenzene	14.053	91	344110	51.891	ug/l		99
90)	Hexachloroethane	14.335	117	76196	51.321	ug/l		100
91)	1,2-Dichlorobenzene	14.106	146	196350	49.724	ug/l		99
92)	1,2-Dibromo-3-Chloropr...	14.717	75	28797	54.588	ug/l		97
93)	1,2,4-Trichlorobenzene	15.394	180	104117	49.134	ug/l		97
94)	Hexachlorobutadiene	15.500	225	43330	48.150	ug/l		97
95)	Naphthalene	15.641	128	338814	52.555	ug/l		99
96)	1,2,3-Trichlorobenzene	15.841	180	99451	49.108	ug/l		99

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On    : 11 Sep 2024  12:59
Operator  : JC\MD
Sample    : VSTDCCC050
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title  : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

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

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

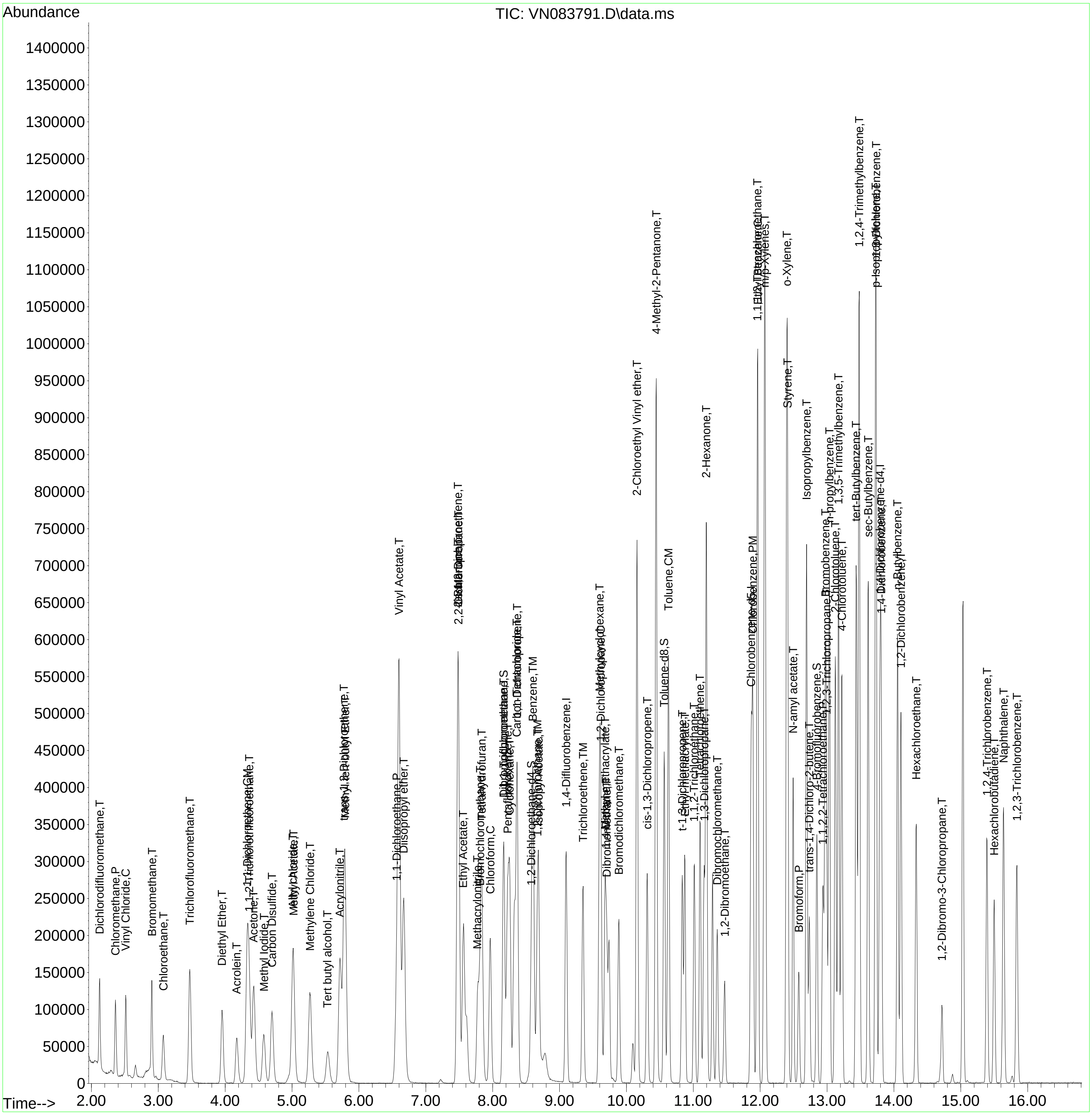
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On    : 11 Sep 2024  12:59
Operator  : JC\MD
Sample    : VSTDCCC050
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title  : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

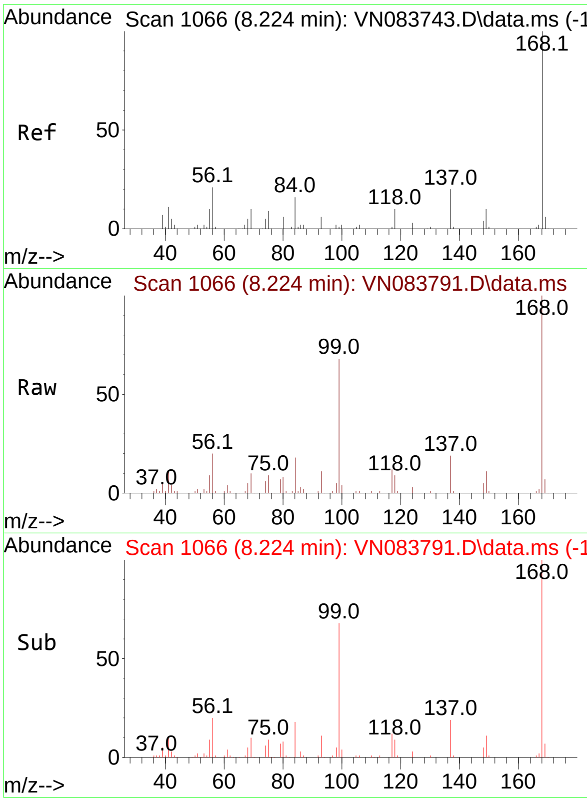
Manual Integrations APPROVED
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

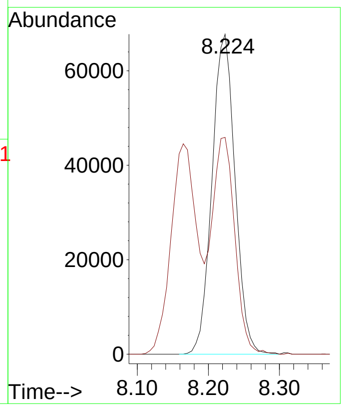
Manual Integrations APPROVED

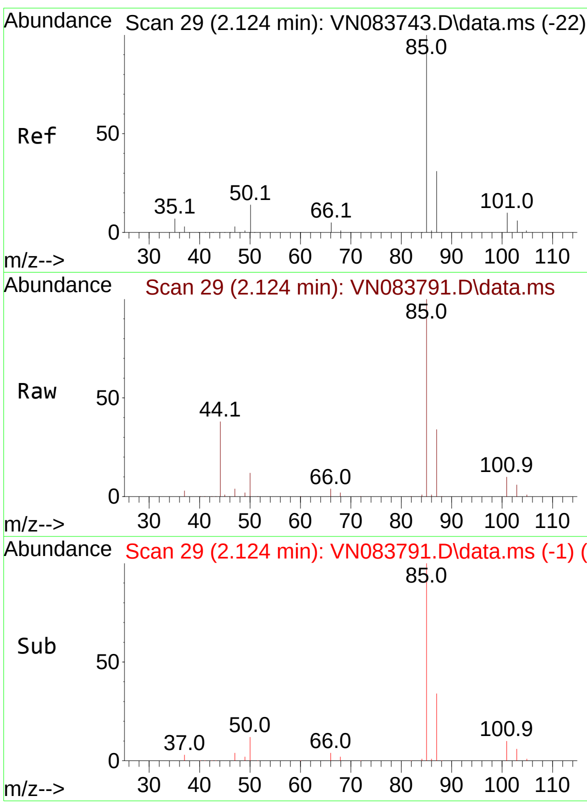
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024




```
#1
Pentafluorobenzene
Concen:   50.000 ug/l
RT:   8.224 min  Scan# 1(
Delta R.T.  -0.000 min
Lab File:   VN083791.D
Acq: 11 Sep 2024  12:59

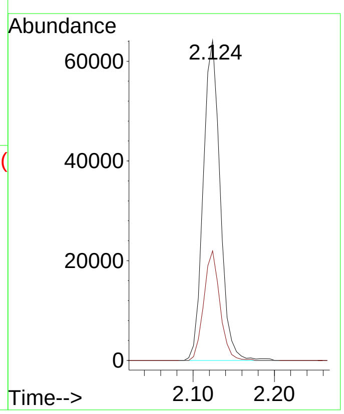
Tgt Ion:168 Resp:  15264(
Ion  Ratio  Lower  Upper
168  100
 99   67.7   54.2   81.2
```

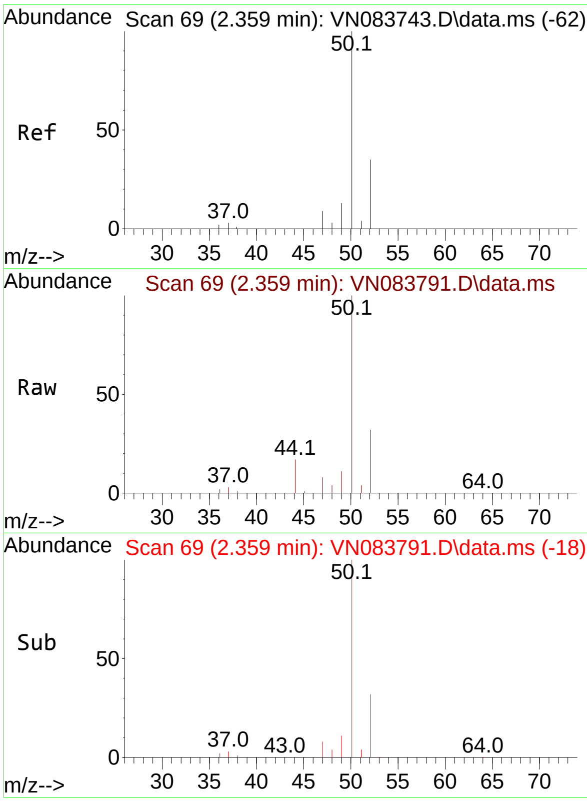





```
#2
Dichlorodifluoromethane
Concen:   52.380 ug/l
RT:   2.124 min  Scan# 29
Delta R.T.  -0.000 min
Lab File:   VN083791.D
Acq: 11 Sep 2024  12:59

Tgt Ion: 85 Resp:   92853
Ion  Ratio  Lower  Upper
 85  100
 87   34.3   15.7   47.0
```

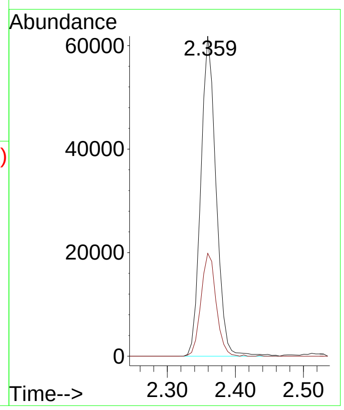




#3
Chloromethane
Concen: 53.426 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 50 Resp: 9648

Ion	Ratio	Lower	Upper
50	100		
52	32.2	27.2	40.8

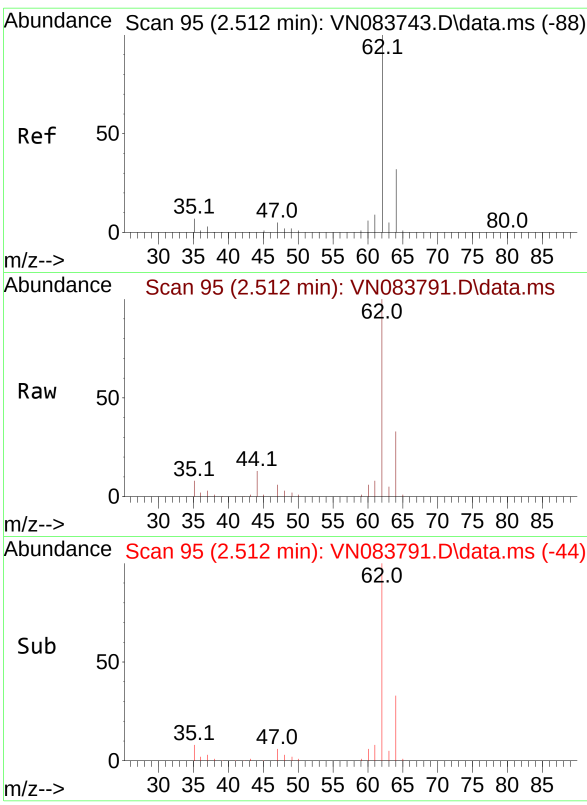


Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

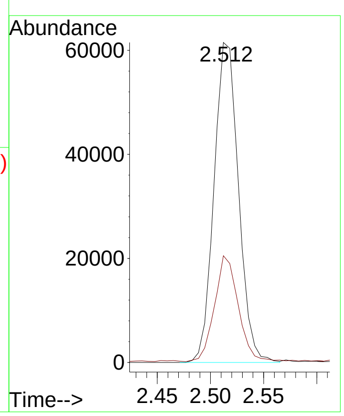
1 2 3 4 5 6 7 8 9 10 **11** 12 13 14 15 16

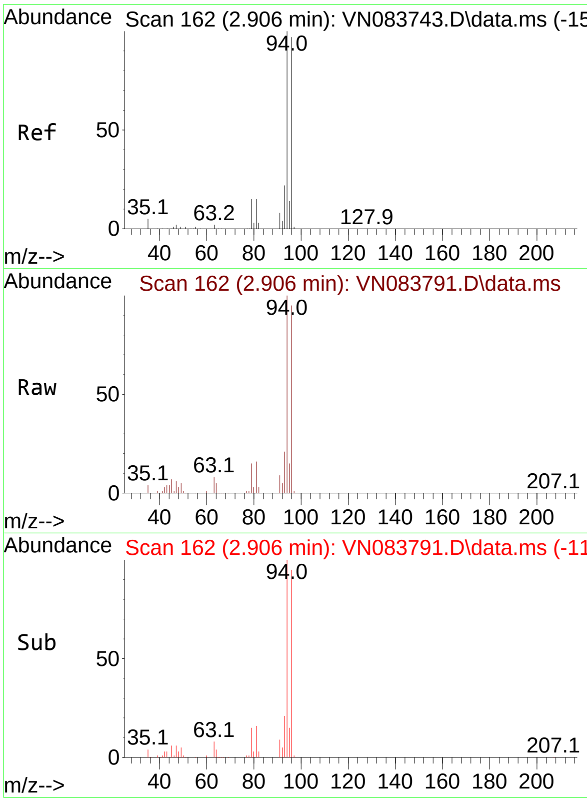


#4
Vinyl Chloride
Concen: 50.667 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 62 Resp: 98446

Ion	Ratio	Lower	Upper
62	100		
64	33.0	24.7	37.1





#5
Bromomethane
Concen: 50.023 ug/l
RT: 2.906 min   Scan# 1(
Delta R.T.   -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024   12:59

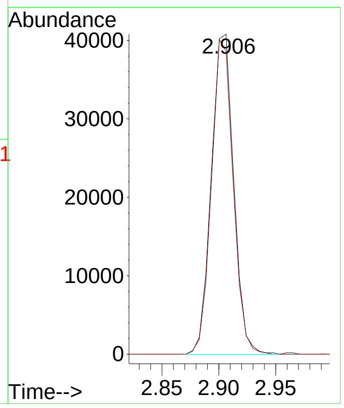
Tgt Ion: 94 Resp: 5580

Ion	Ratio	Lower	Upper
94	100		
96	94.6	76.0	114.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone   09/12/2024
Supervised By :Mahesh Dadoda   09/12/2024



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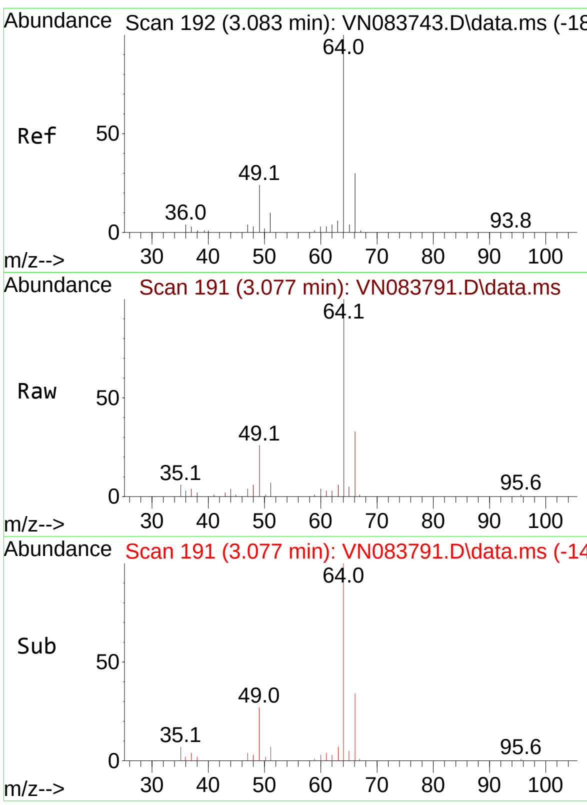
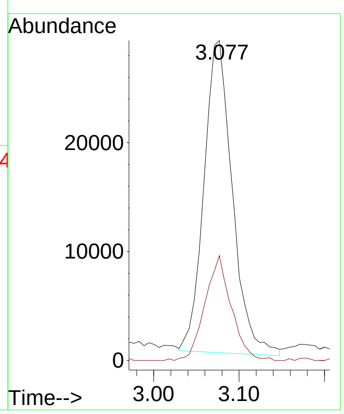


#6
Chloroethane
Concen: 48.719 ug/l
RT: 3.077 min   Scan# 191
Delta R.T.   -0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024   12:59

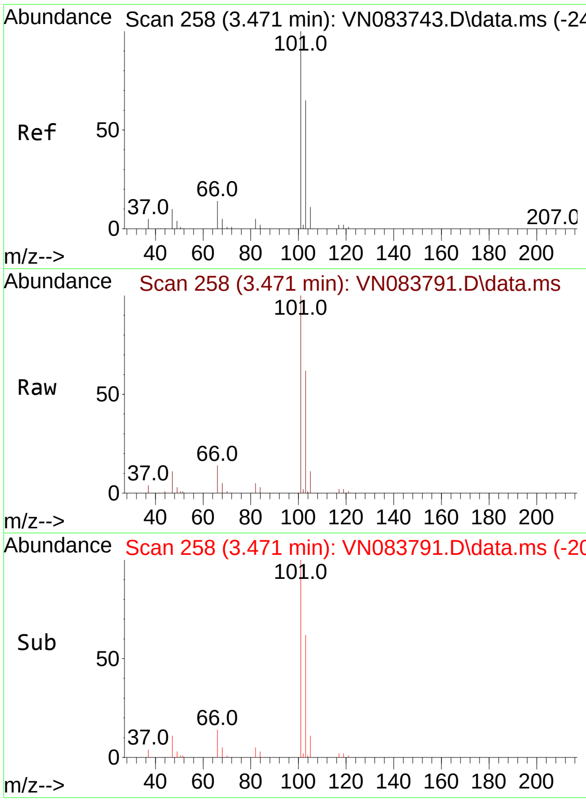
Tgt Ion: 64 Resp: 66402

Ion	Ratio	Lower	Upper
64	100		
66	33.9	23.9	35.9



Instrument : MSVOA_N
ClientSampleId : VSTDCCC050

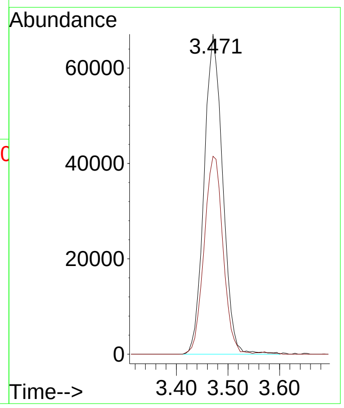
Manual Integrations APPROVED
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

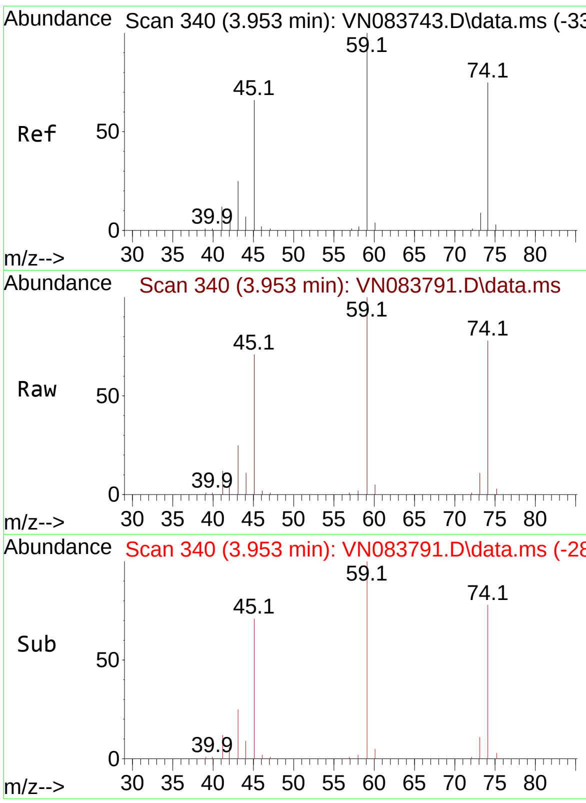


#7
Trichlorofluoromethane
Concen: 50.999 ug/l
RT: 3.471 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:101 Resp: 16820

Ion	Ratio	Lower	Upper
101	100		
103	61.9	51.4	77.0

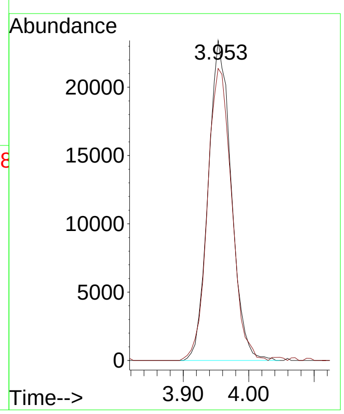




#8
Diethyl Ether
Concen: 51.923 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 74 Resp: 57405

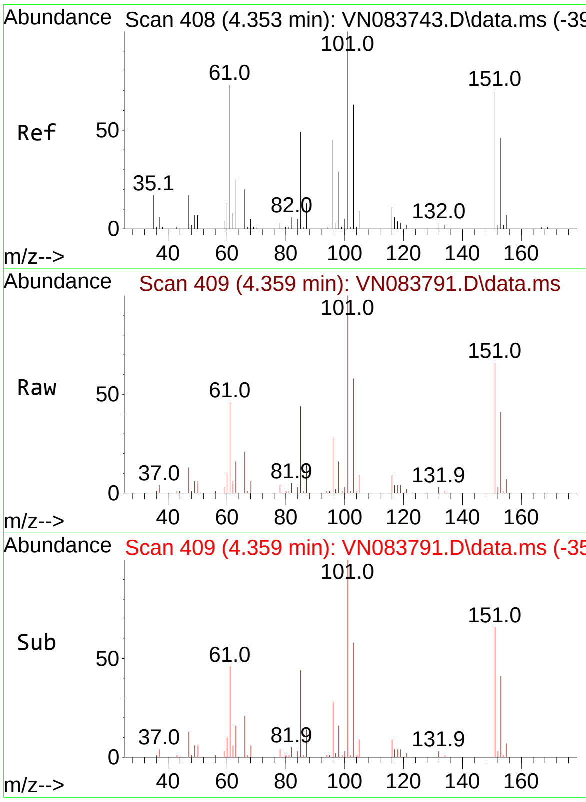
Ion	Ratio	Lower	Upper
74	100		
45	95.5	46.7	140.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

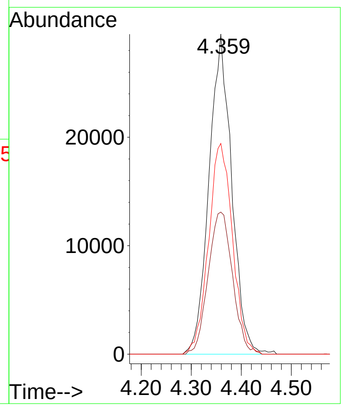
Manual Integrations APPROVED

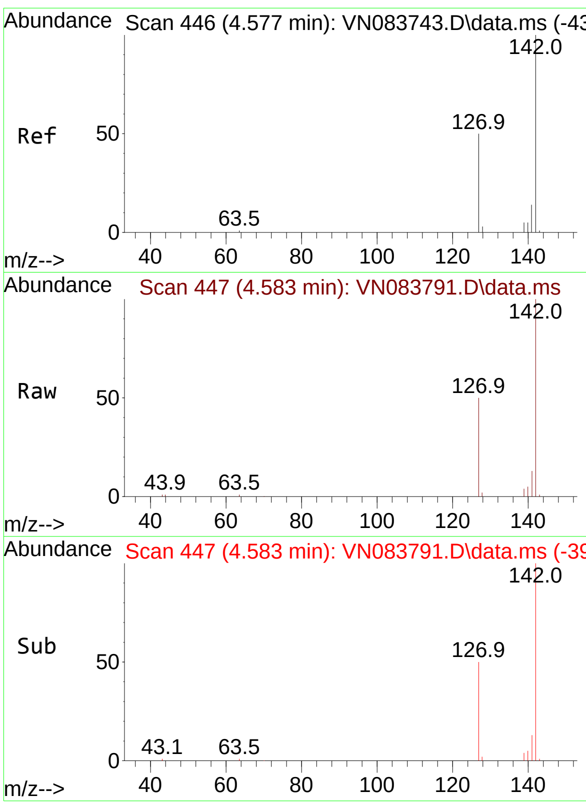
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024




```
#9
1,1,2-Trichlorotrifluoroethane
Concen:   53.219 ug/l
RT:    4.359 min   Scan# 40
Delta R.T.   0.006 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

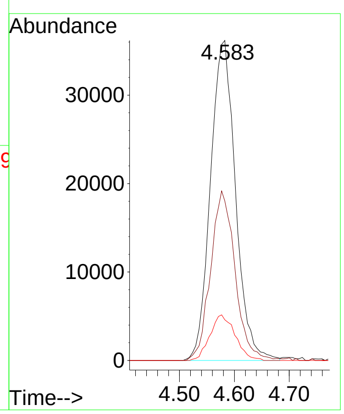
Tgt Ion:101 Resp:    9303
Ion   Ratio   Lower   Upper
101   100
 85    47.7    36.2    54.4
151    69.6    57.7    86.5
```



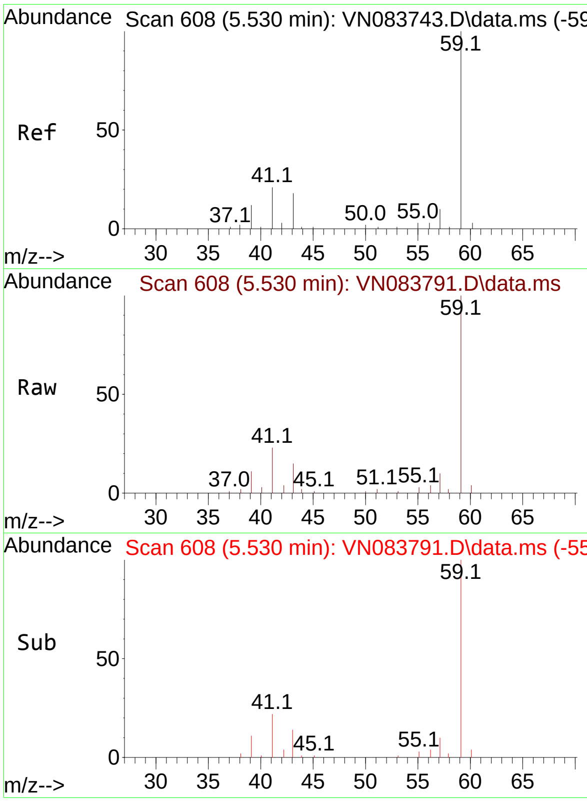



```
#10
Methyl Iodide
Concen:   51.680 ug/l
RT:    4.583 min   Scan# 447
Delta R.T.   0.006 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion:142 Resp:   114902
Ion   Ratio   Lower   Upper
142   100
127    49.8    37.5    56.3
141    12.7    11.0    16.4
```



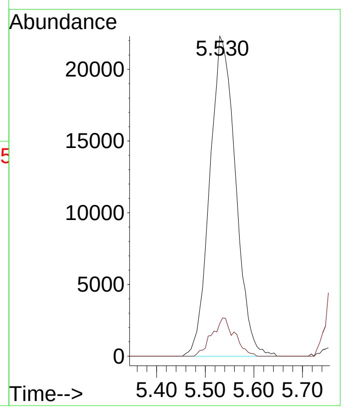
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#11
Tert butyl alcohol
Concen: 267.118 ug/l
RT: 5.530 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 59 Resp: 8232

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1



Instrument :
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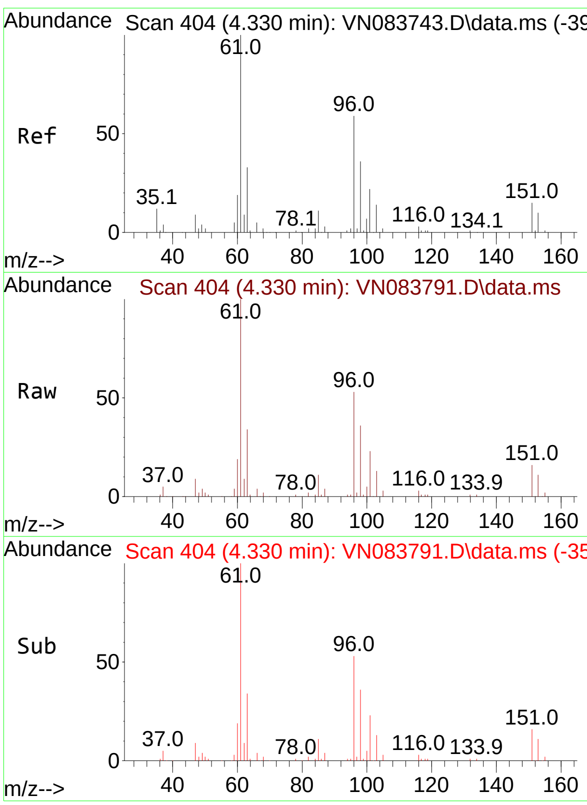
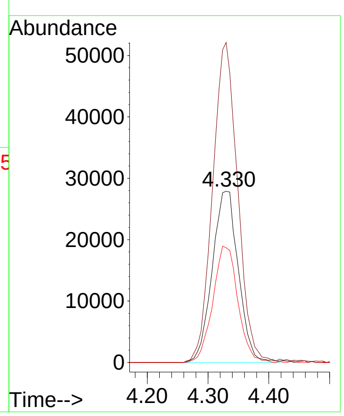
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

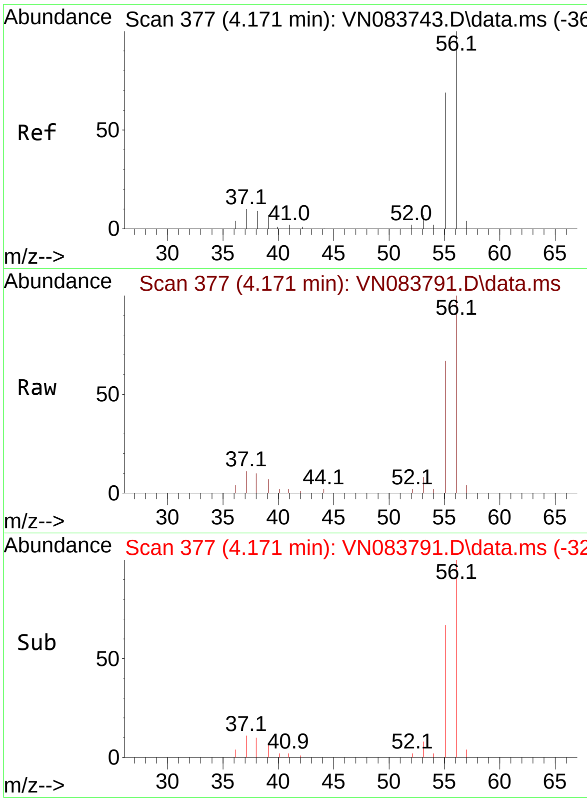


#12
1,1-Dichloroethene
Concen: 50.448 ug/l
RT: 4.330 min Scan# 404
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 96 Resp: 83287

Ion	Ratio	Lower	Upper
96	100		
61	187.0	143.4	215.0
98	67.0	52.7	79.1





#13
Acrolein
Concen: 253.706 ug/l
RT: 4.171 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 56 Resp: 7715

Ion	Ratio	Lower	Upper
56	100		
55	69.2	58.2	87.2

Instrument :
MSVOA_N
ClientSampleId :
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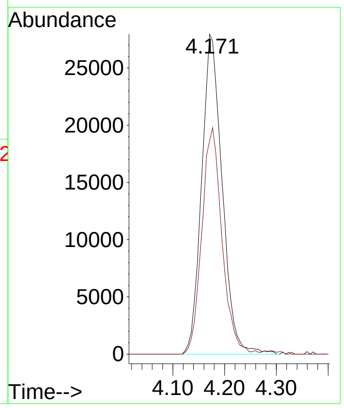
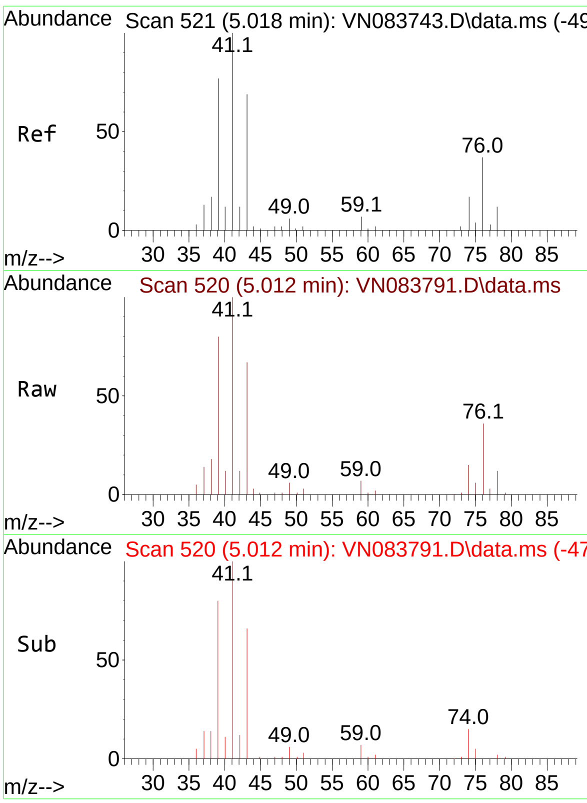
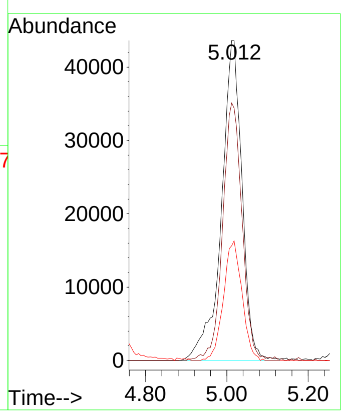


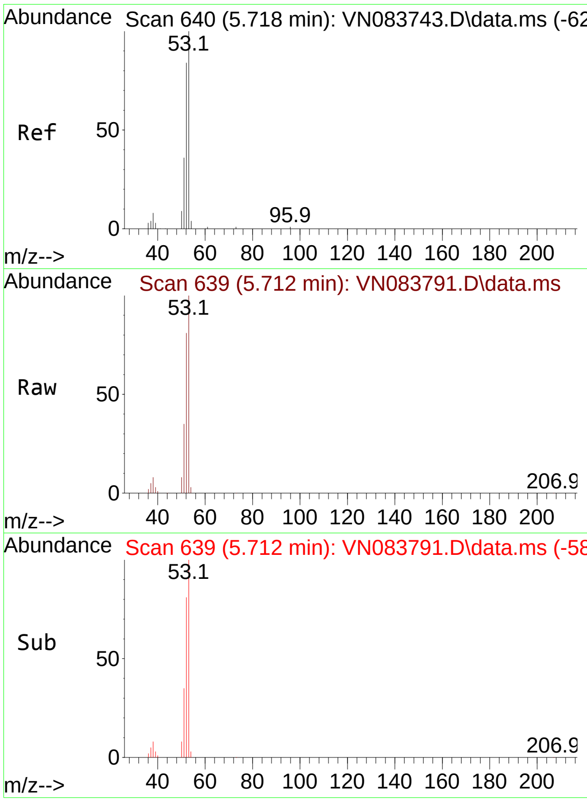


#14
Allyl chloride
Concen: 52.436 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 41 Resp: 154256

Ion	Ratio	Lower	Upper
41	100		
39	75.6	59.3	88.9
76	33.6	27.7	41.5






```
#15
Acrylonitrile
Concen:  263.967 ug/l
RT:    5.712 min   Scan# 6
Delta R.T.   -0.006 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion: 53 Resp:   22124
Ion   Ratio   Lower   Upper
 53   100
 52    84.5    66.1    99.1
 51    37.5    29.6    44.4
```

Instrument :
MSVOA_N
ClientSampleId :
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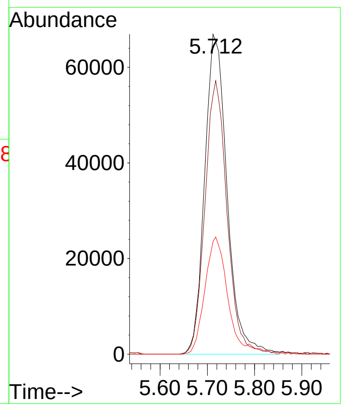
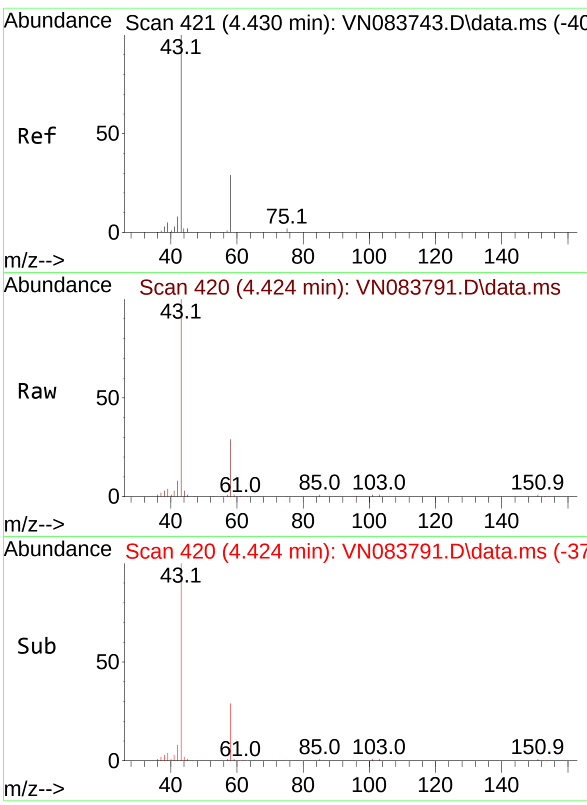
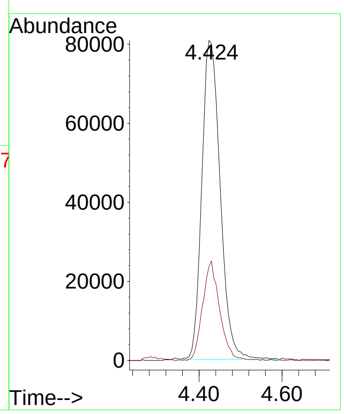


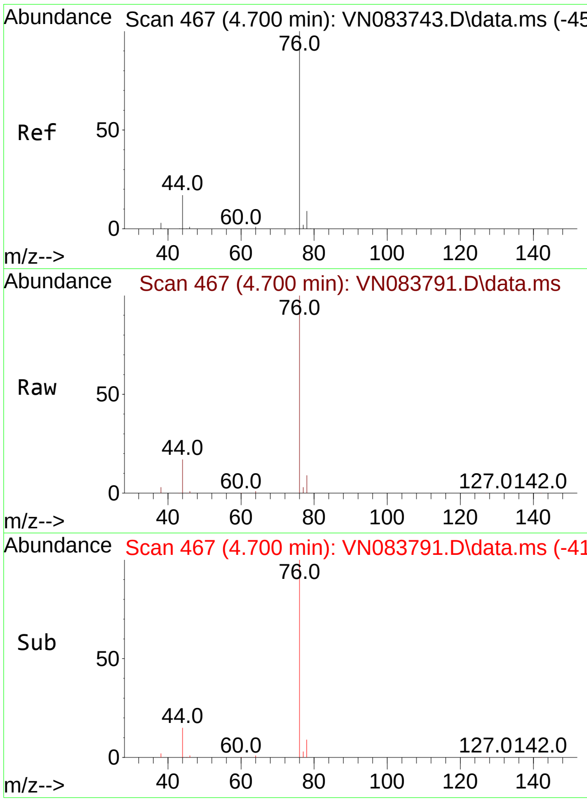
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#16
Acetone
Concen:  269.645 ug/l
RT:    4.424 min   Scan# 420
Delta R.T.   -0.006 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion: 43 Resp:   248789
Ion   Ratio   Lower   Upper
 43   100
 58    29.3    23.7    35.5
```





#17
Carbon Disulfide
Concen: 47.389 ug/l
RT: 4.700 min Scan# 4(
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 76 Resp: 21885

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.1	10.7

Instrument :
MSVOA_N
ClientSampleId :
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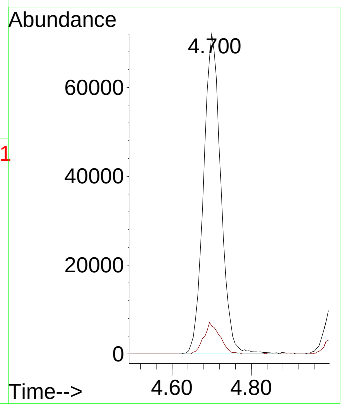
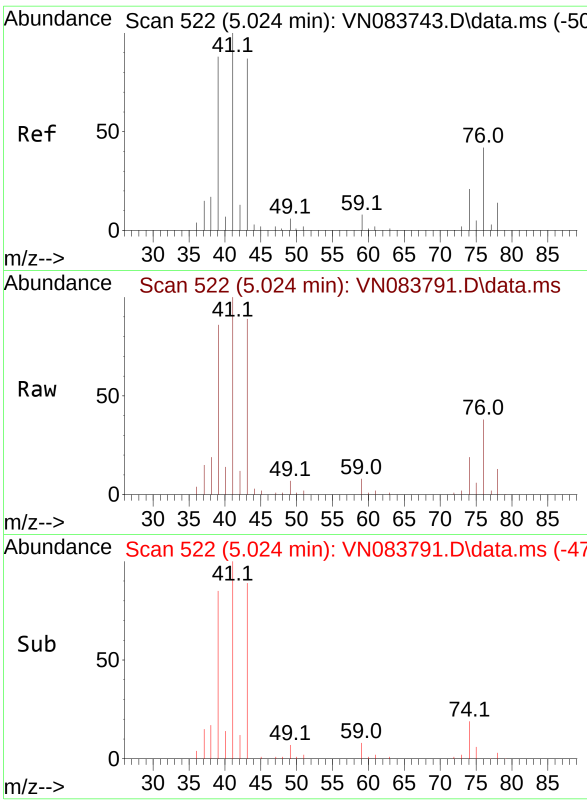
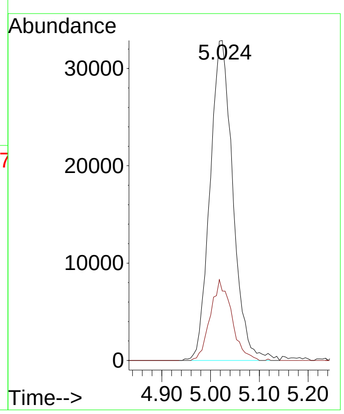


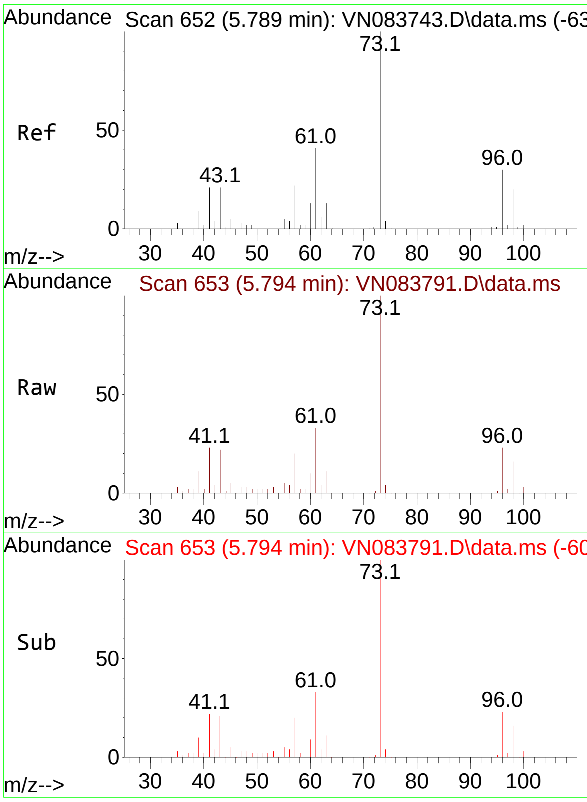


#18
Methyl Acetate
Concen: 56.072 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 43 Resp: 107359

Ion	Ratio	Lower	Upper
43	100		
74	23.6	19.0	28.4

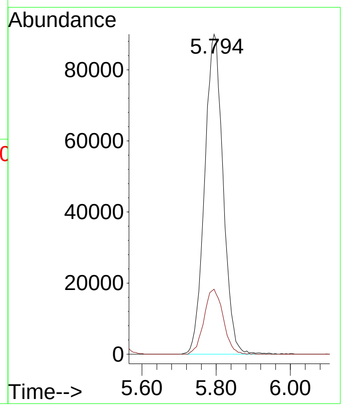




#19
Methyl tert-butyl Ether
Concen: 52.089 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 73 Resp: 311194

Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.0	25.6



Instrument :
MSVOA_N
ClientSampleId :
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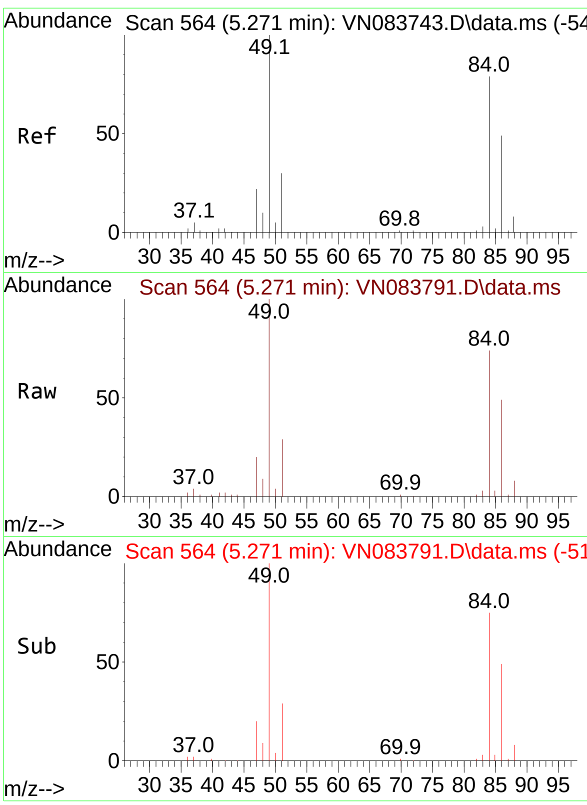
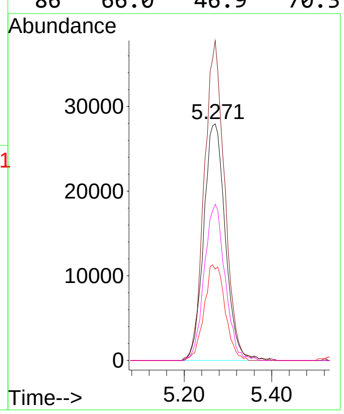
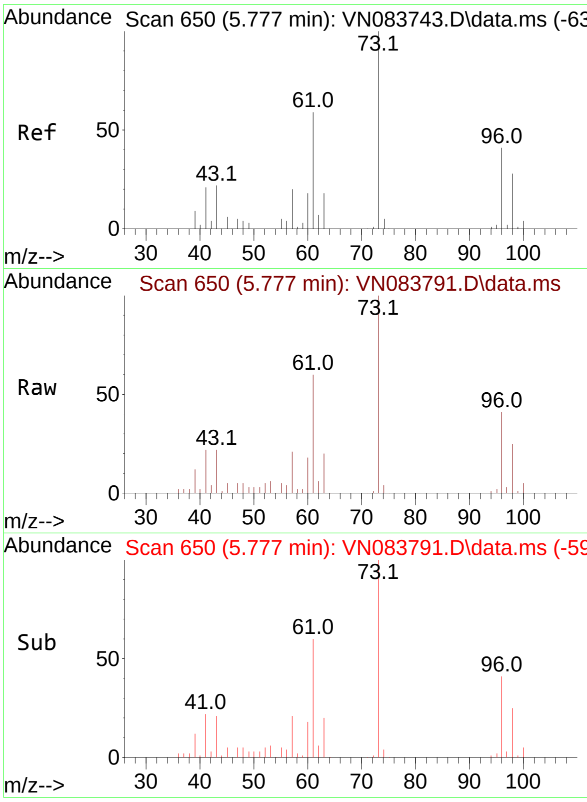


#20
Methylene Chloride
Concen: 50.788 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 84 Resp: 95892

Ion	Ratio	Lower	Upper
84	100		
49	135.3	93.4	140.0
51	38.6	29.2	43.8
86	66.0	46.9	70.3

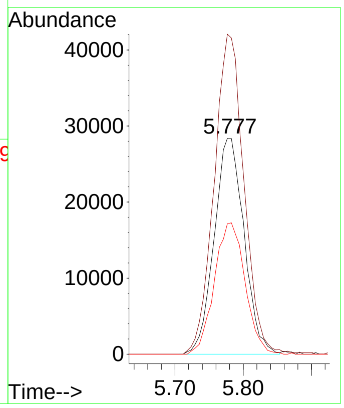




#21
trans-1,2-Dichloroethene
Concen: 48.855 ug/l
RT: 5.777 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 96 Resp: 86440

Ion	Ratio	Lower	Upper
96	100		
61	148.3	106.0	159.0
98	60.4	52.2	78.2



Instrument :
MSVOA_N
ClientSampleId :
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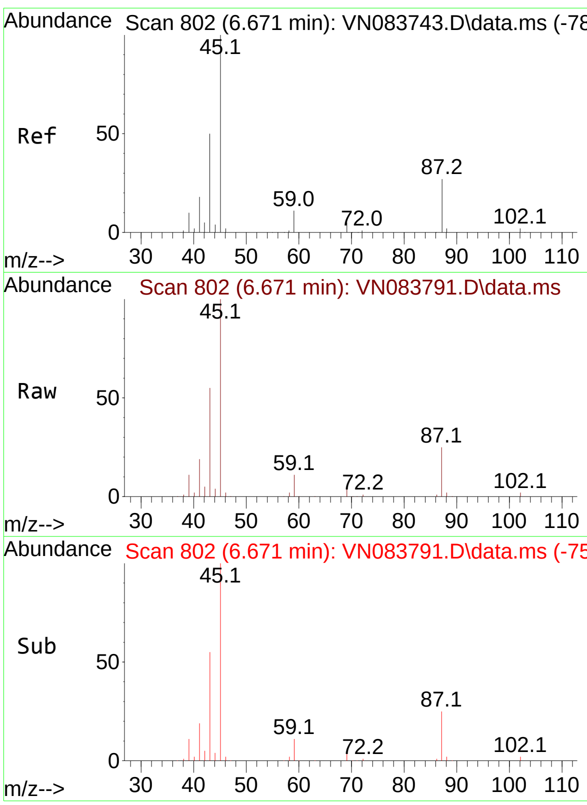
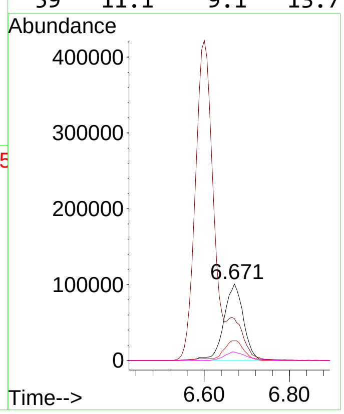
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#22
Diisopropyl ether
Concen: 53.200 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 45 Resp: 322165

Ion	Ratio	Lower	Upper
45	100		
43	53.7	43.4	65.0
87	25.5	22.6	33.8
59	11.1	9.1	13.7



Instrument :
MSVOA_N
ClientSampleId :
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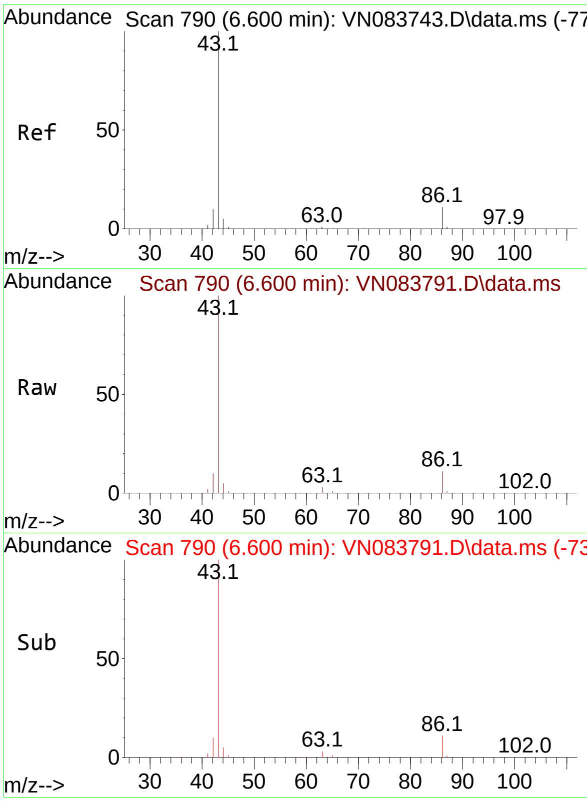
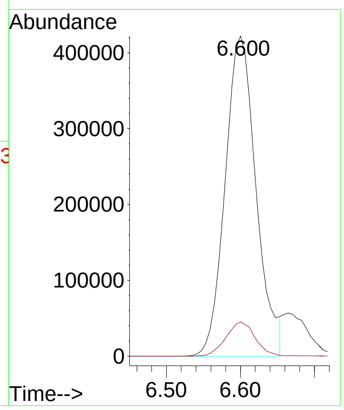
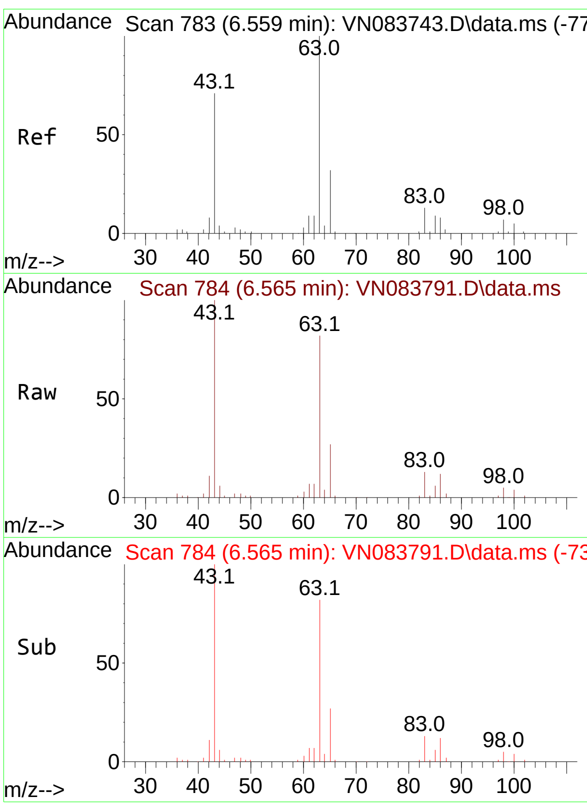



```
#23
Vinyl Acetate
Concen:  276.919 ug/l
RT:   6.600 min  Scan# 79
Delta R.T.  -0.000 min
Lab File:   VN083791.D
Acq: 11 Sep 2024  12:59

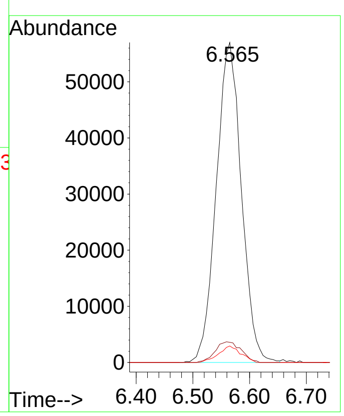
Tgt Ion: 43 Resp: 1228060
Ion  Ratio  Lower  Upper
 43  100
 86   10.7    8.7   13.1
```

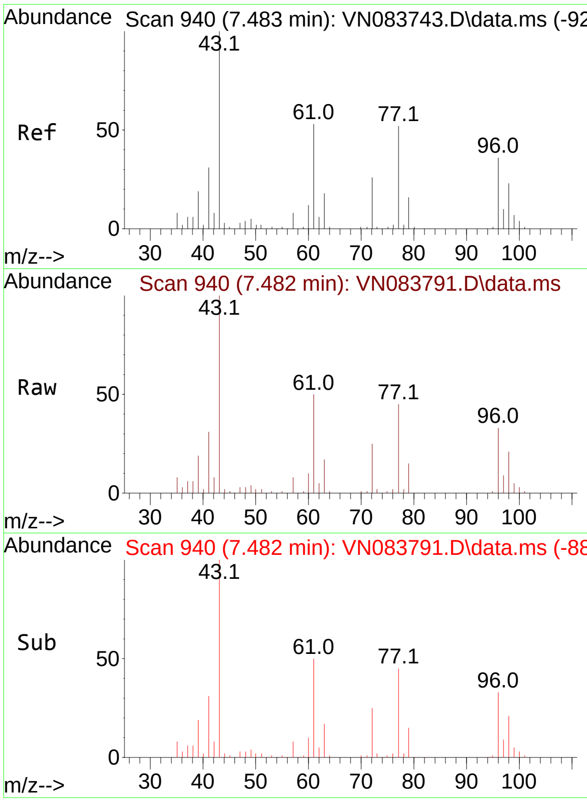





```
#24
1,1-Dichloroethane
Concen:   50.268 ug/l
RT:   6.565 min  Scan# 784
Delta R.T.  0.006 min
Lab File:   VN083791.D
Acq: 11 Sep 2024  12:59

Tgt Ion: 63 Resp:  175379
Ion  Ratio  Lower  Upper
 63  100
 98    6.3    3.5   10.4
100    5.1    2.5    7.5
```





#25
2-Butanone
Concen: 265.951 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 43 Resp: 32251

Ion	Ratio	Lower	Upper
43	100		
72	25.1	20.8	31.2

Instrument :
MSVOA_N
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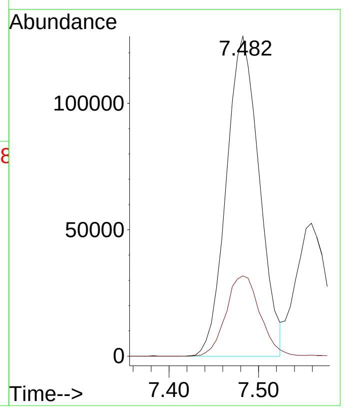
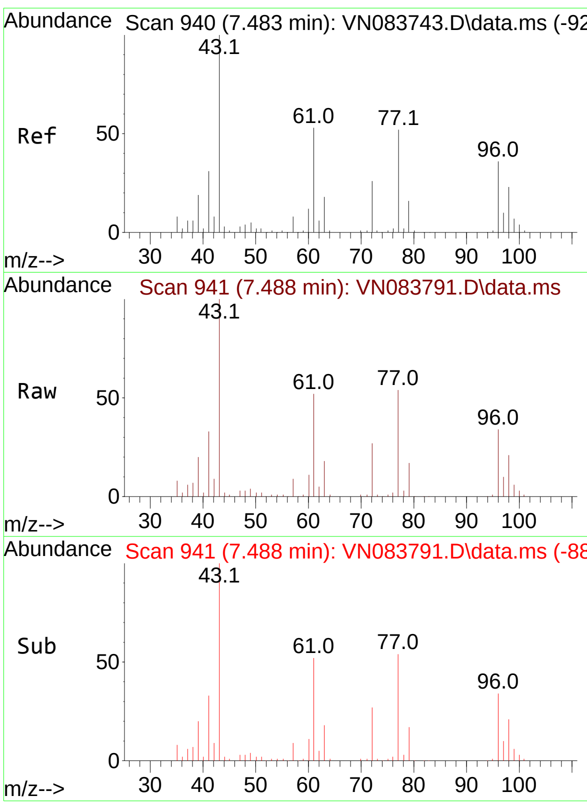
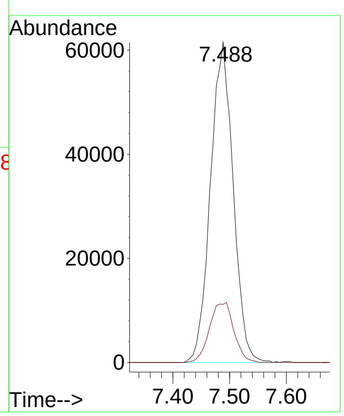




#26
2,2-Dichloropropane
Concen: 53.219 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 77 Resp: 170992

Ion	Ratio	Lower	Upper
77	100		
97	20.0	10.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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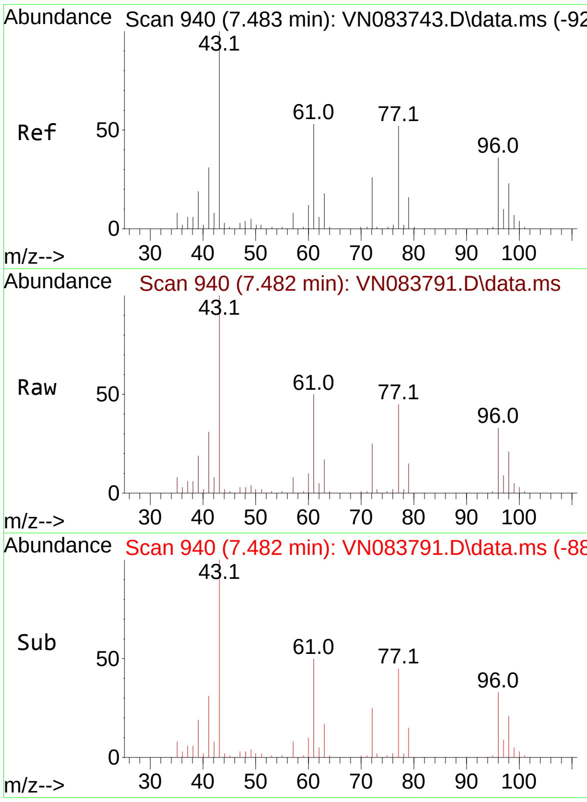
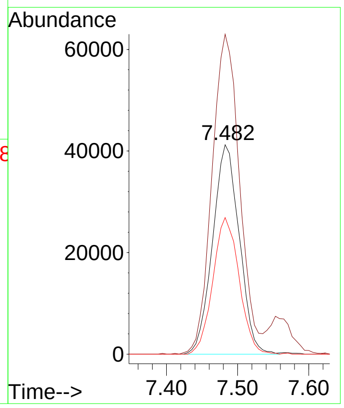
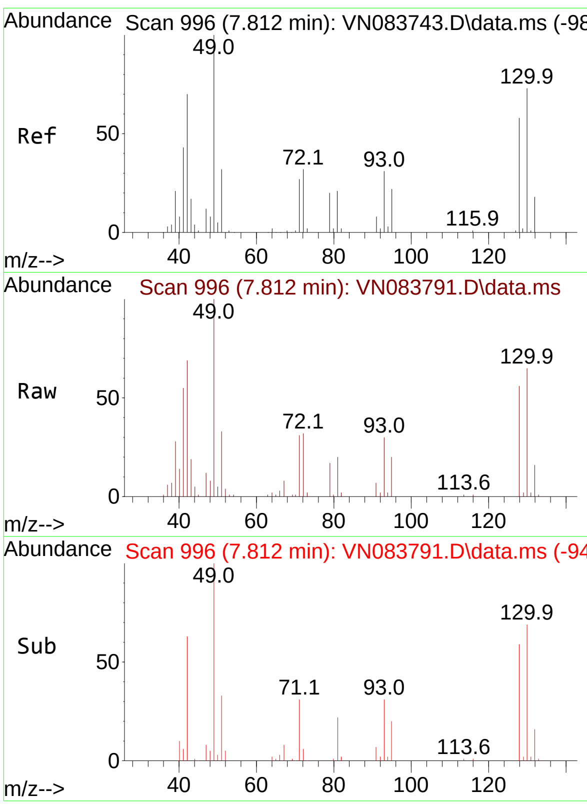


#27
cis-1,2-Dichloroethene
Concen: 51.241 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 96 Resp: 10762

Ion	Ratio	Lower	Upper
96	100		
61	158.1	0.0	306.2
98	64.1	0.0	128.6

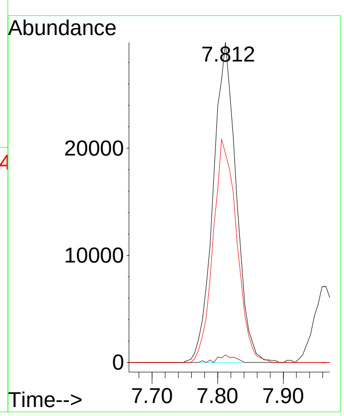




#28
Bromochloromethane
Concen: 49.768 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 49 Resp: 73121

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.4
130	71.3	60.2	90.2



Instrument :
MSVOA_N
ClientSampleId :
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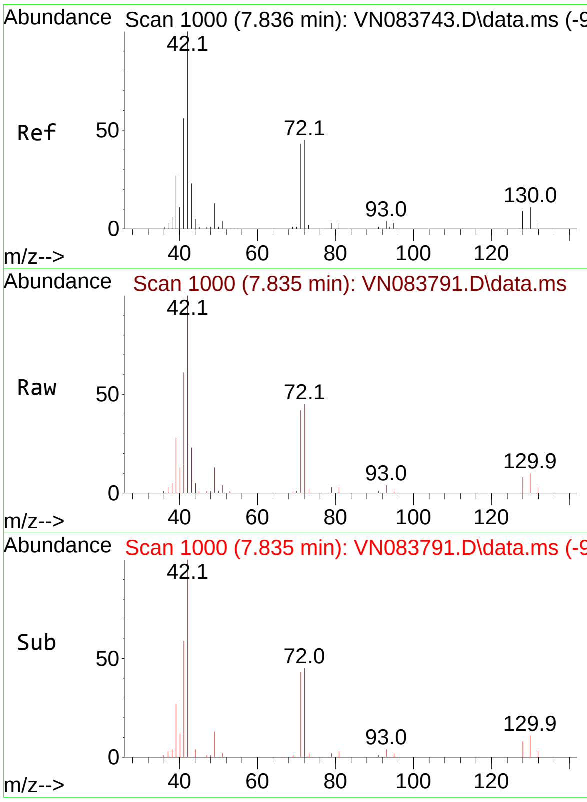
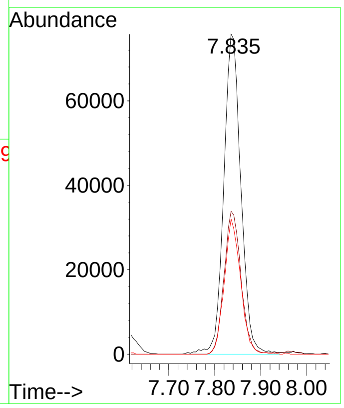
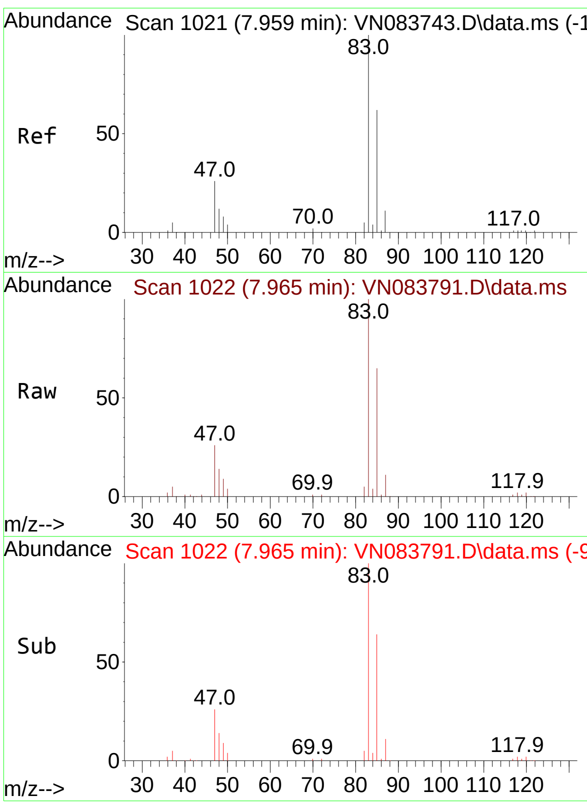



```
#29
Tetrahydrofuran
Concen:  273.716 ug/l
RT:   7.835 min  Scan# 10
Delta R.T.  -0.000 min
Lab File:   VN083791.D
Acq: 11 Sep 2024  12:59

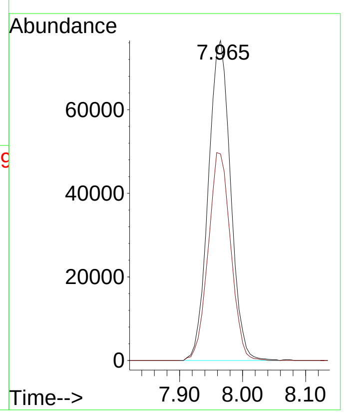
Tgt Ion: 42 Resp:  196268
Ion  Ratio  Lower  Upper
 42  100
 72   44.1   35.9   53.9
 71   40.3   33.9   50.9
```



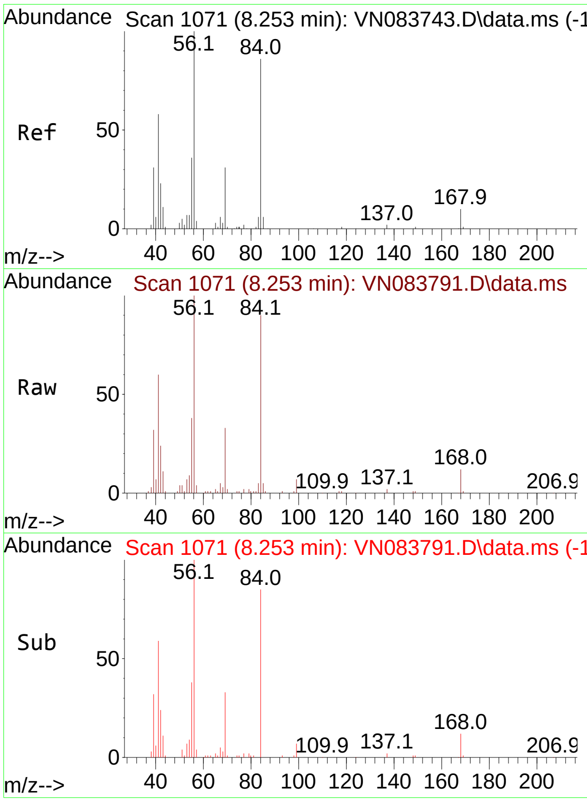



```
#30
Chloroform
Concen:   50.756 ug/l
RT:   7.965 min  Scan# 1022
Delta R.T.  0.006 min
Lab File:   VN083791.D
Acq: 11 Sep 2024  12:59

Tgt Ion: 83 Resp:  187996
Ion  Ratio  Lower  Upper
 83  100
 85   64.5   52.8   79.2
```



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#31
Cyclohexane
Concen: 46.943 ug/l
RT: 8.253 min   Scan# 10
Delta R.T.   -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion: 56 Resp: 15615

Ion	Ratio	Lower	Upper
56	100		
69	33.0	26.9	40.3
84	88.0	69.2	103.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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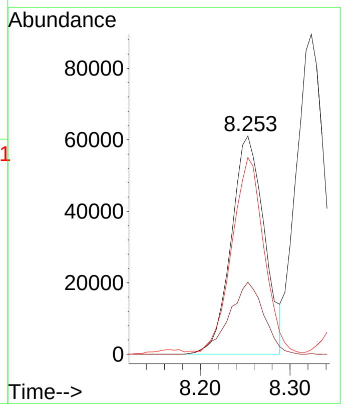
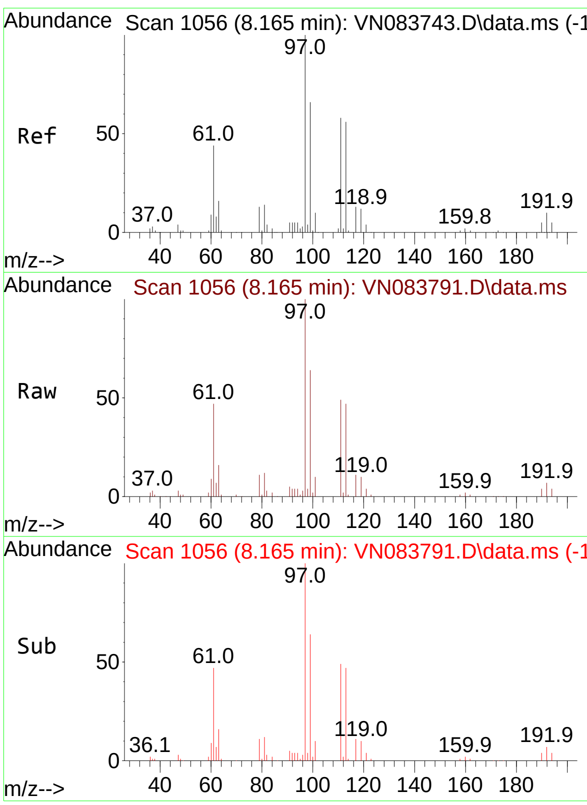
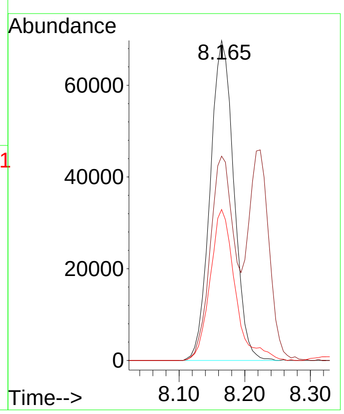


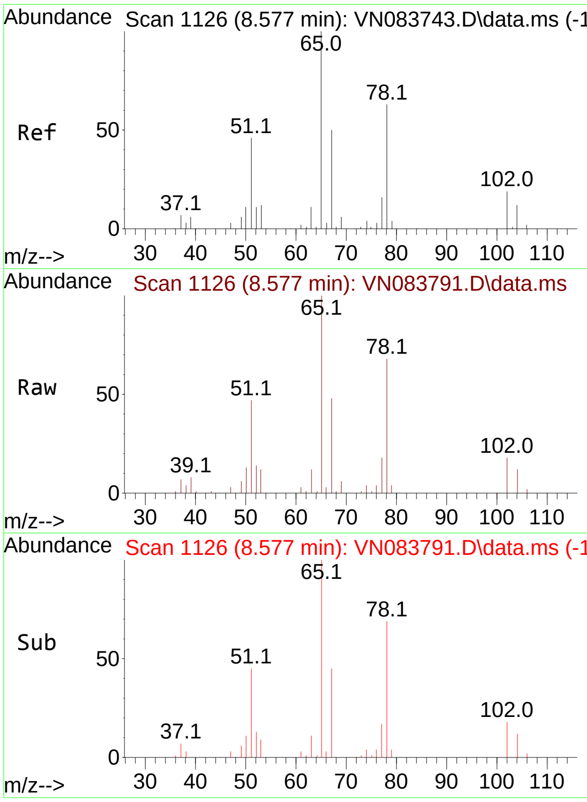


#32
1,1,1-Trichloroethane
Concen: 51.509 ug/l
RT: 8.165 min   Scan# 1056
Delta R.T.   -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion: 97 Resp: 175429

Ion	Ratio	Lower	Upper
97	100		
99	64.8	52.3	78.5
61	49.7	38.2	57.2

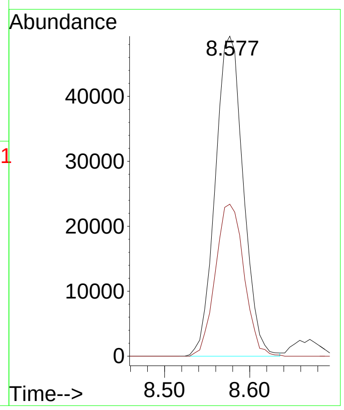




#33
1,2-Dichloroethane-d4
Concen: 49.106 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 65 Resp: 11302

Ion	Ratio	Lower	Upper
65	100		
67	48.5	0.0	100.8



Instrument :
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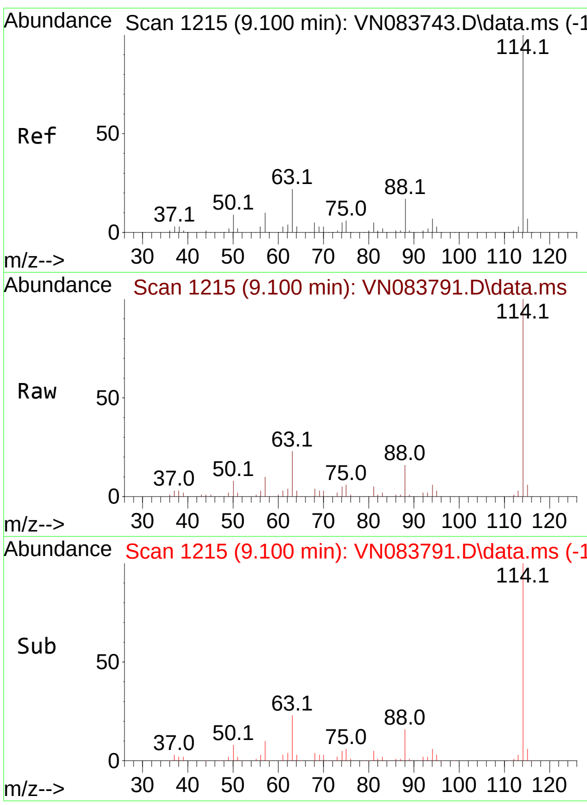
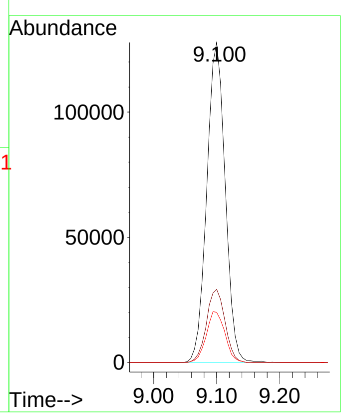


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:114 Resp: 259748

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	43.4
88	15.6	0.0	32.6



Instrument :
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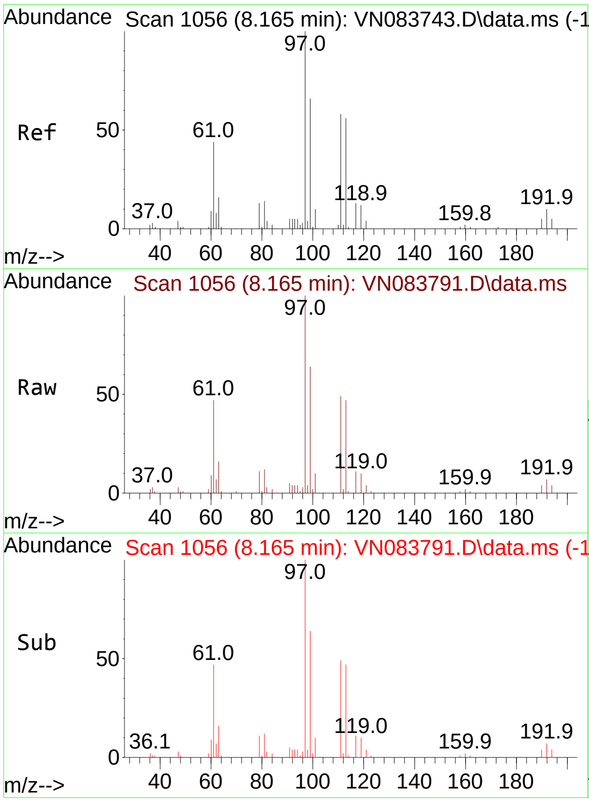
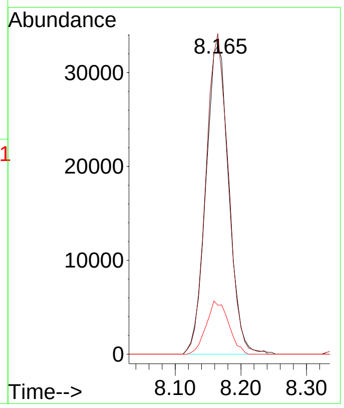
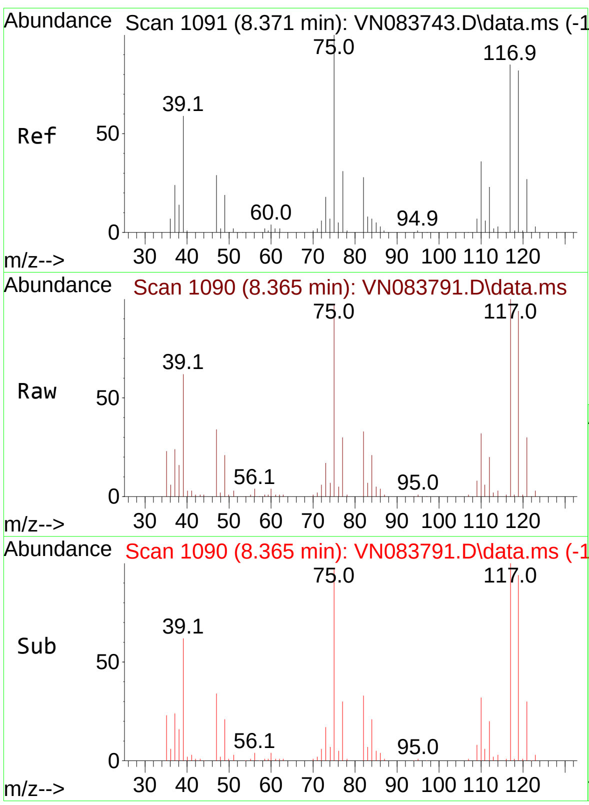


#35
Dibromofluoromethane
Concen: 48.184 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:113 Resp: 8012

Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.6	124.0
192	16.8	14.3	21.5

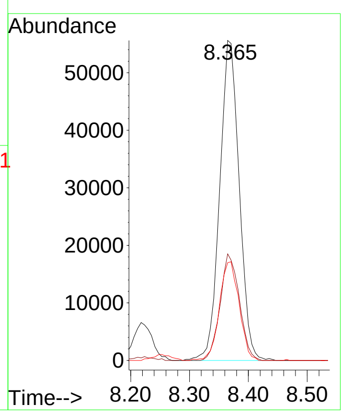




#36
1,1-Dichloropropene
Concen: 51.229 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 75 Resp: 128219

Ion	Ratio	Lower	Upper
75	100		
110	32.9	16.7	50.1
77	31.2	25.2	37.8



Instrument :
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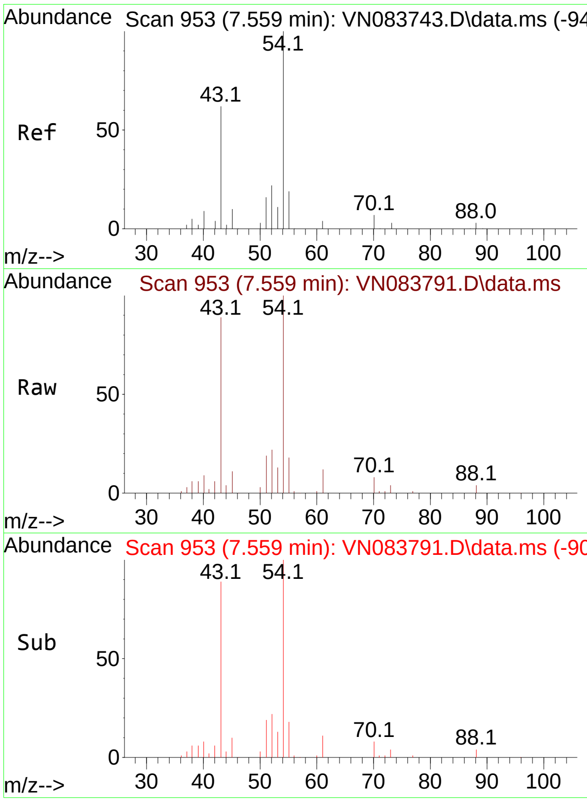
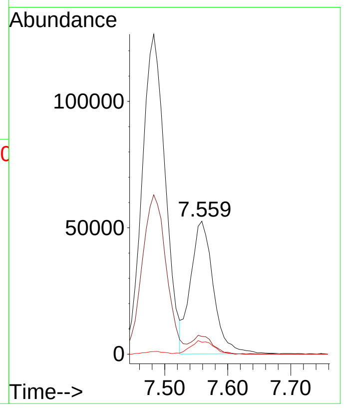
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

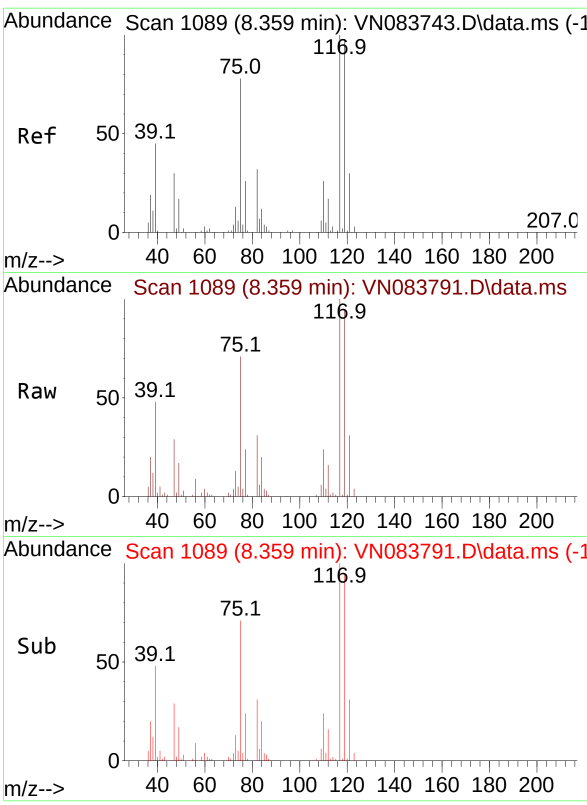


#37
Ethyl Acetate
Concen: 58.242 ug/l
RT: 7.559 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 43 Resp: 13231

Ion	Ratio	Lower	Upper
43	100		
61	12.8	11.1	16.7
70	10.3	8.8	13.2

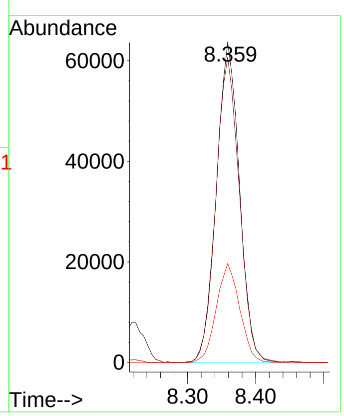




#38
Carbon Tetrachloride
Concen: 52.977 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:117 Resp: 150427

Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.1	114.1
121	31.0	24.1	36.1



Instrument :
MSVOA_N
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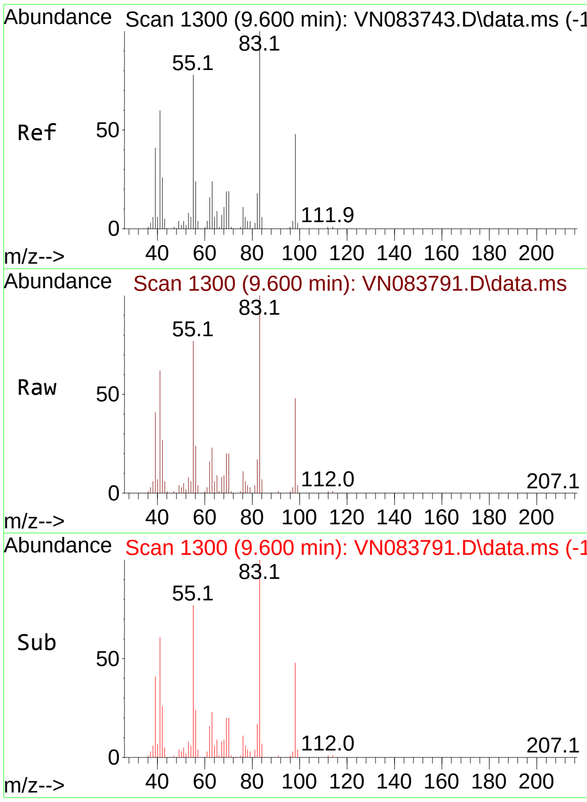
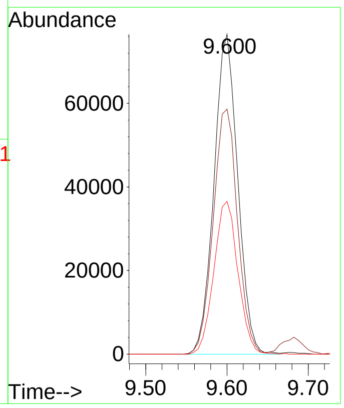
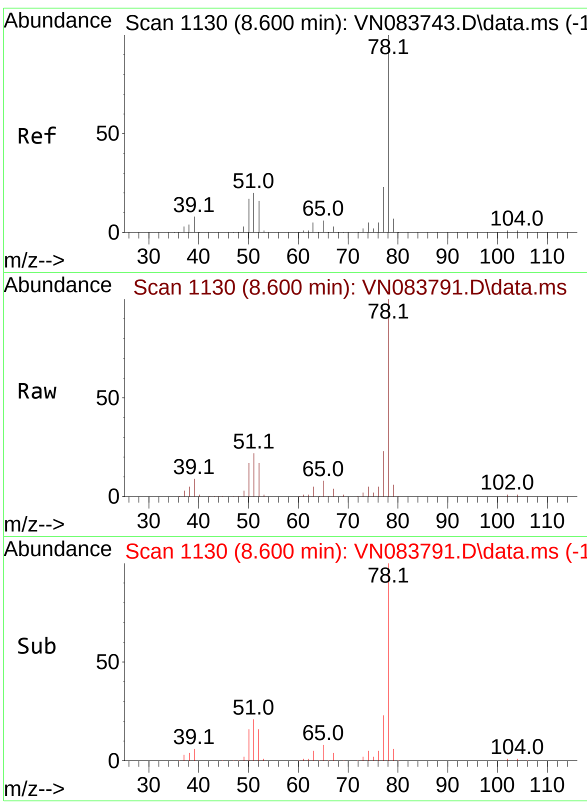
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#39
Methylcyclohexane
Concen:   54.700 ug/l
RT:   9.600 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   VN083791.D
Acq: 11 Sep 2024  12:59

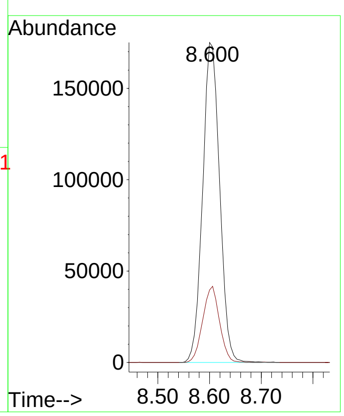
Tgt Ion: 83 Resp:  15583
Ion  Ratio  Lower  Upper
 83  100
 55   76.6   62.2   93.4
 98   47.8   37.6   56.4
```






```
#40
Benzene
Concen:   53.148 ug/l
RT:   8.600 min  Scan# 1130
Delta R.T.  -0.000 min
Lab File:   VN083791.D
Acq: 11 Sep 2024  12:59

Tgt Ion: 78 Resp:  400377
Ion  Ratio  Lower  Upper
 78  100
 77   22.6   19.0   28.6
```



Instrument :
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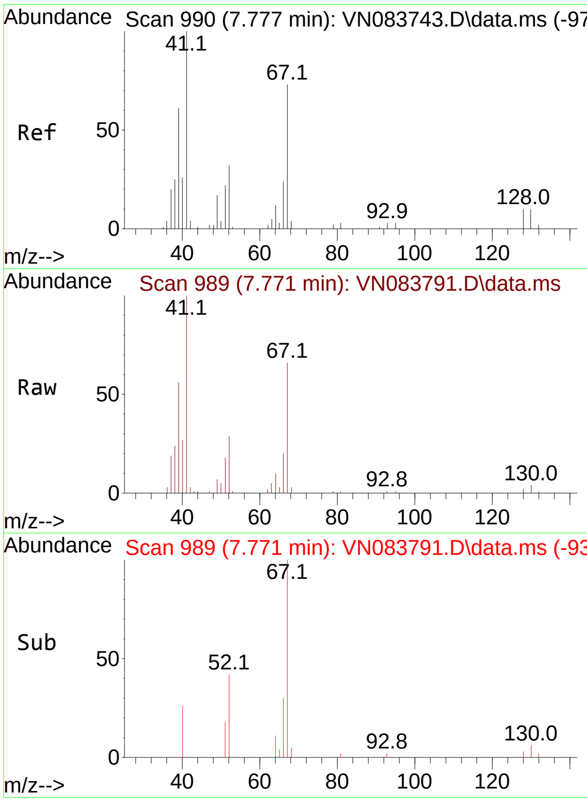
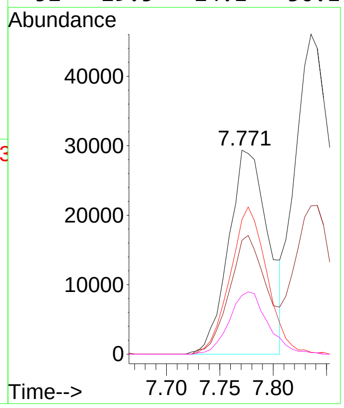
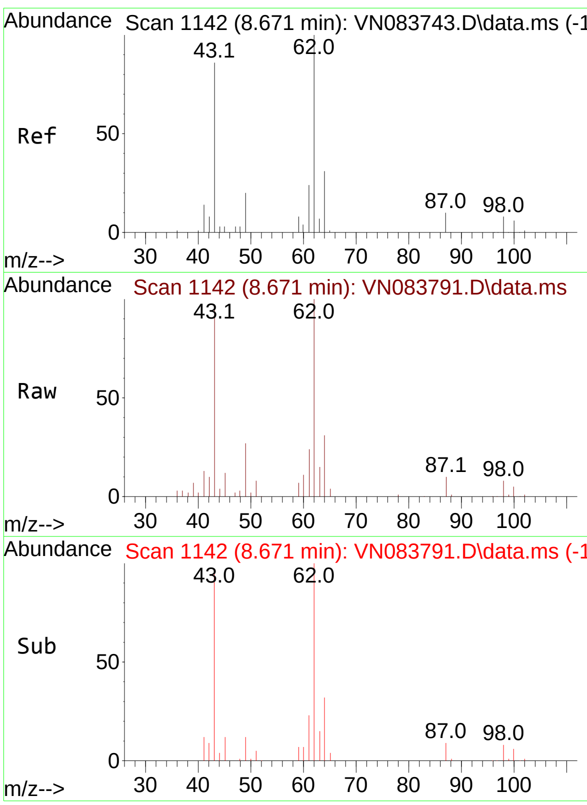



```
#41
Methacrylonitrile
Concen:   56.528 ug/l
RT:    7.771 min  Scan# 98
Delta R.T.  -0.006 min
Lab File:   VN083791.D
Acq: 11 Sep 2024  12:59

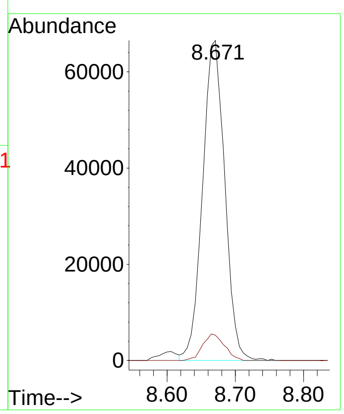
Tgt Ion: 41 Resp:   7595(
Ion  Ratio  Lower  Upper
 41  100
 39   54.9   45.4   68.2
 67   67.2   55.9   83.9
 52   29.5   24.1   36.1
```

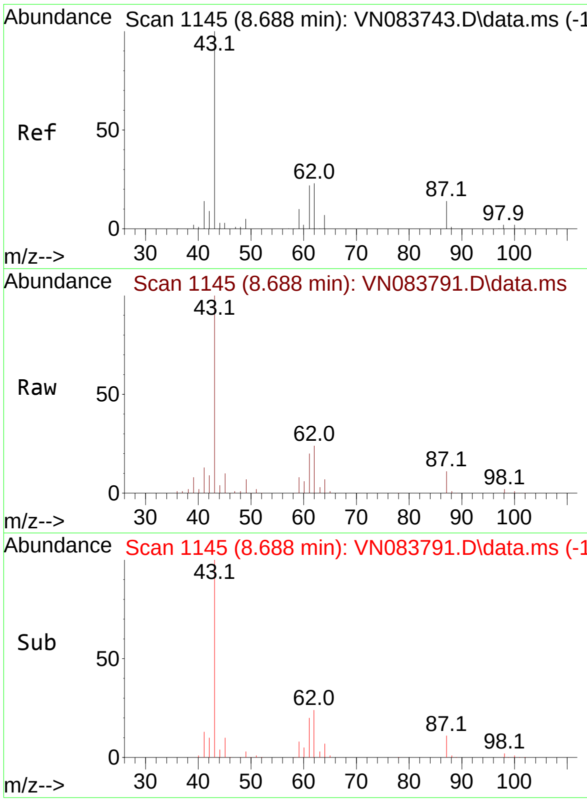





```
#42
1,2-Dichloroethane
Concen:   53.581 ug/l
RT:    8.671 min  Scan# 1142
Delta R.T.  -0.000 min
Lab File:   VN083791.D
Acq: 11 Sep 2024  12:59

Tgt Ion: 62 Resp:   150827
Ion  Ratio  Lower  Upper
 62  100
 98    8.1    0.0   16.6
```

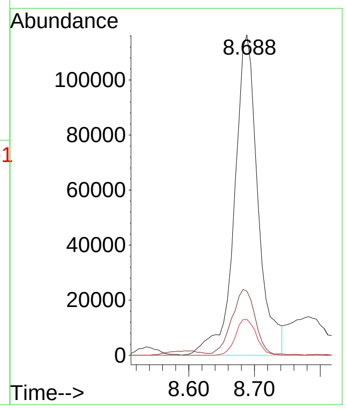




#43
Isopropyl Acetate
Concen: 70.750 ug/l
RT: 8.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 43 Resp: 29127

Ion	Ratio	Lower	Upper
43	100		
61	20.3	19.4	29.0
87	9.8	9.8	14.6



Instrument :
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ClientSampleId :
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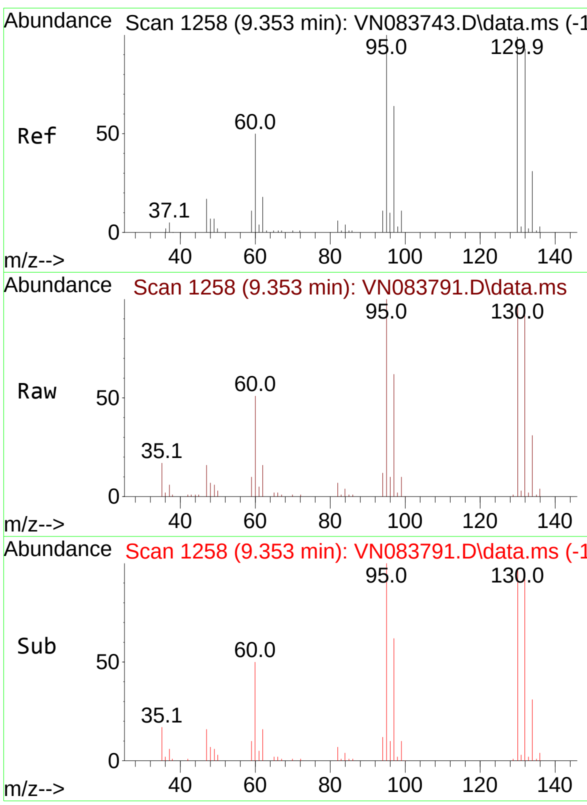
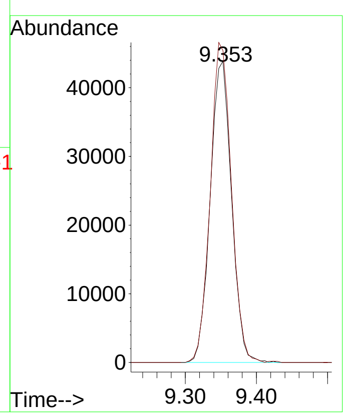


#44
Trichloroethene
Concen: 52.393 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:130 Resp: 91400

Ion	Ratio	Lower	Upper
130	100		
95	103.5	0.0	200.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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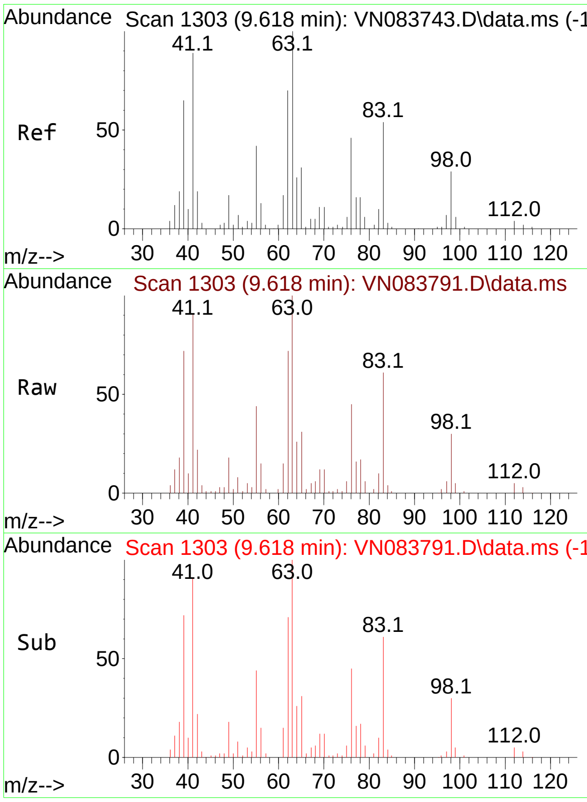
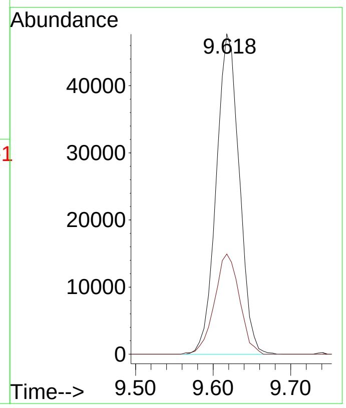
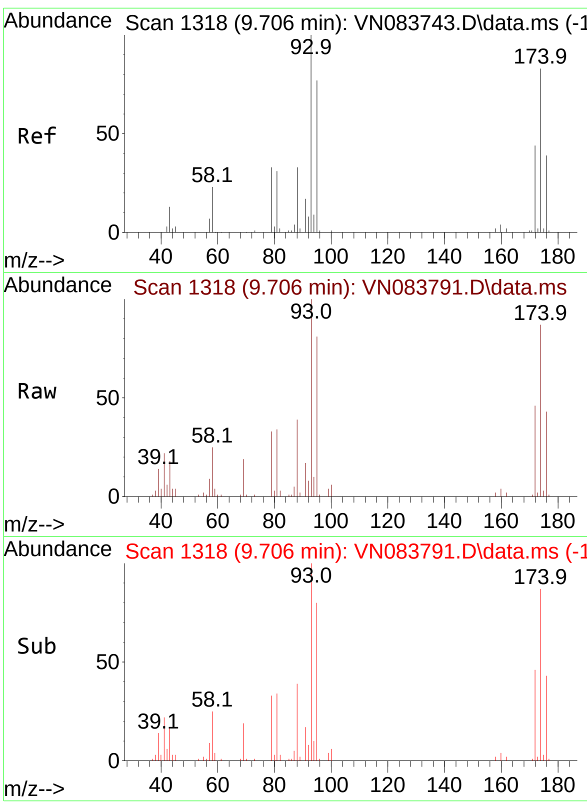



```
#45
1,2-Dichloropropane
Concen:    54.190 ug/l
RT:    9.618 min   Scan# 1
Delta R.T.   -0.000 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

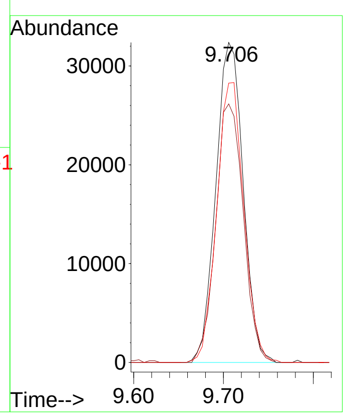
Tgt Ion: 63 Resp:    9866
Ion   Ratio   Lower   Upper
 63   100
 65    31.3    25.9    38.9
```






```
#46
Dibromomethane
Concen:    53.782 ug/l
RT:    9.706 min   Scan# 1318
Delta R.T.   -0.000 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion: 93 Resp:    68589
Ion   Ratio   Lower   Upper
 93   100
 95    81.6    65.3    97.9
174    86.9    71.0   106.4
```



Instrument :
MSVOA_N
ClientSampleId :
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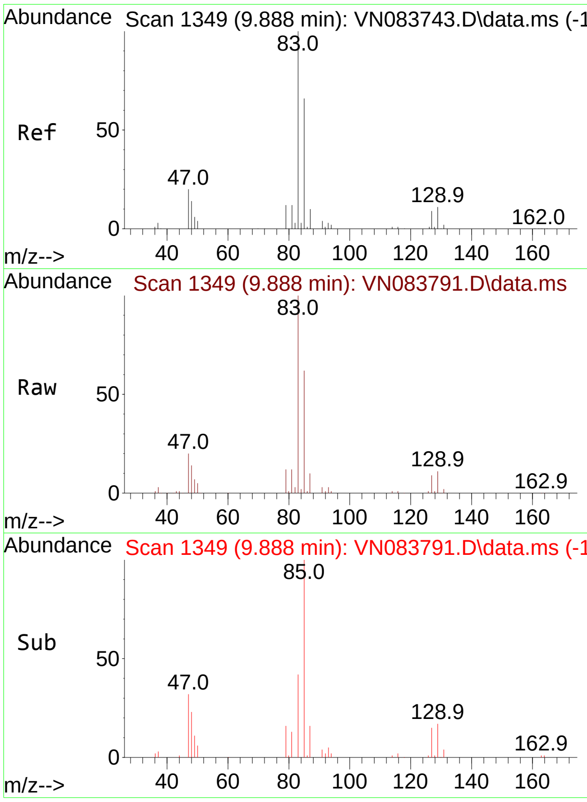
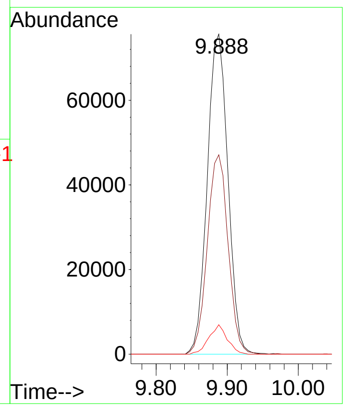
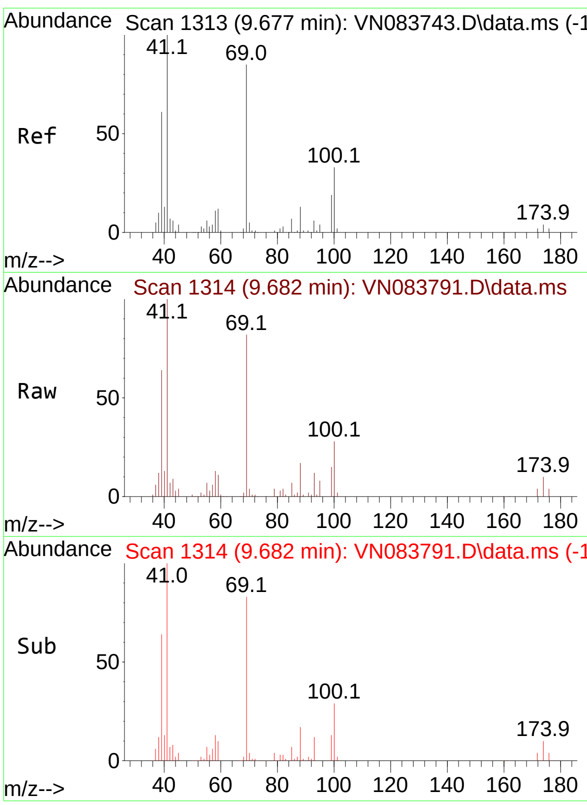


#47
Bromodichloromethane
Concen: 55.370 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 83 Resp: 15282

Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.8	77.8
127	9.2	6.6	9.8

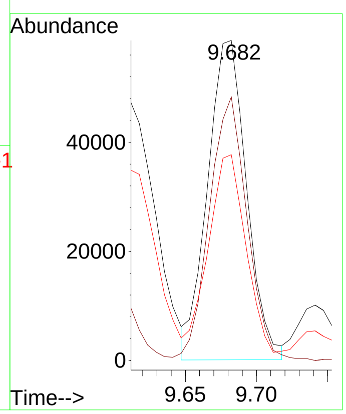




#48
Methyl methacrylate
Concen: 57.280 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 41 Resp: 111880

Ion	Ratio	Lower	Upper
41	100		
69	79.6	64.3	96.5
39	64.1	48.9	73.3



Instrument :
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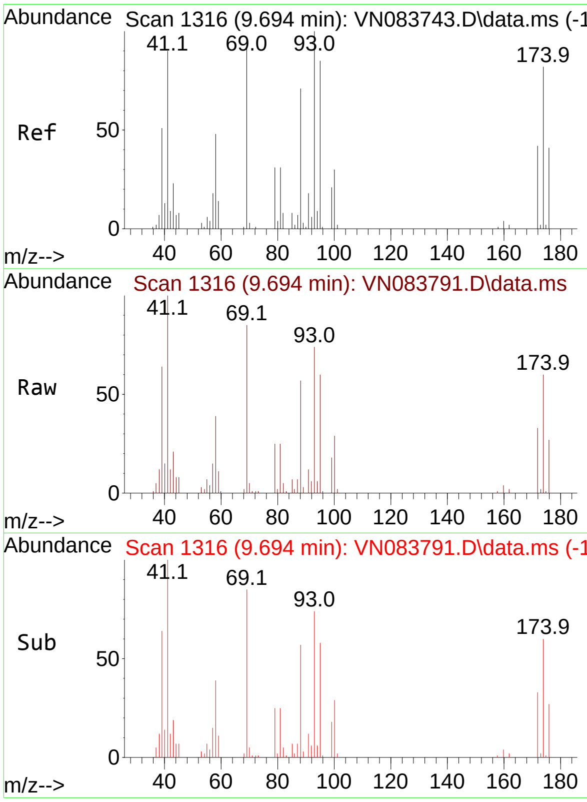
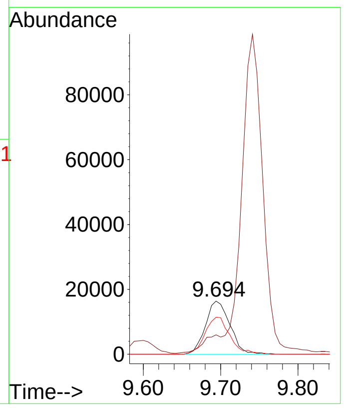
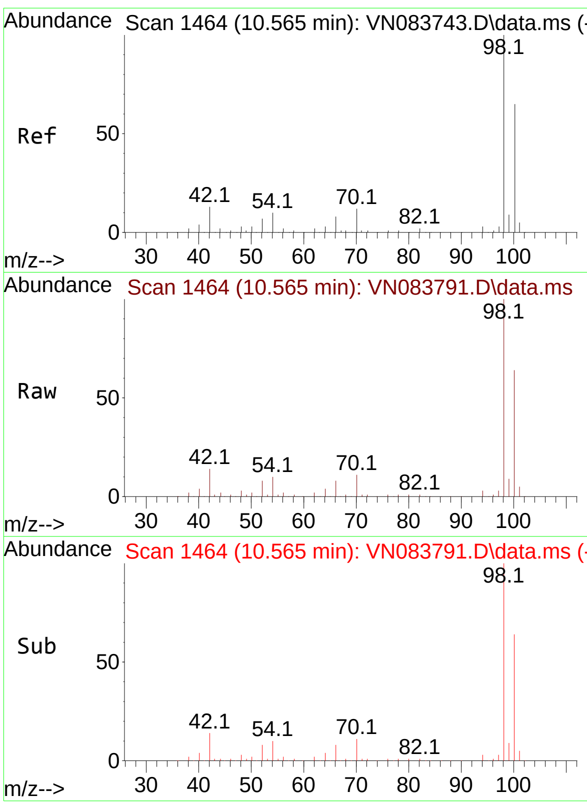
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#49
1,4-Dioxane
Concen: 1114.069 ug/l
RT:    9.694 min   Scan# 1
Delta R.T.   -0.000 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

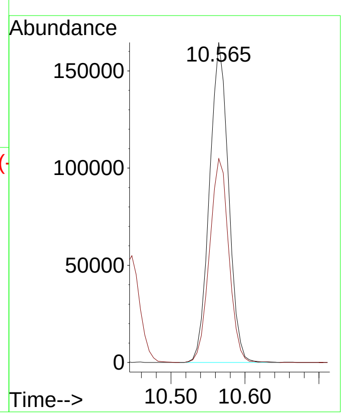
Tgt Ion: 88 Resp:   3579
Ion   Ratio   Lower   Upper
 88   100
 43     0.0     0.0     0.0
 58    71.4    57.1    85.7
```

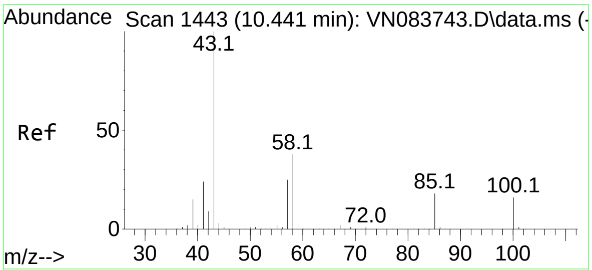


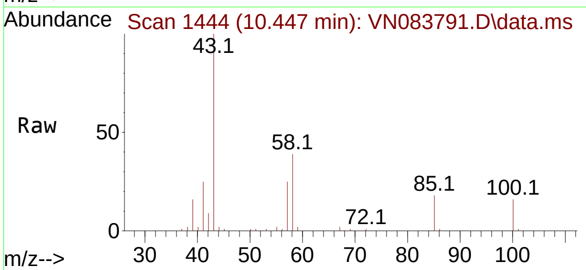


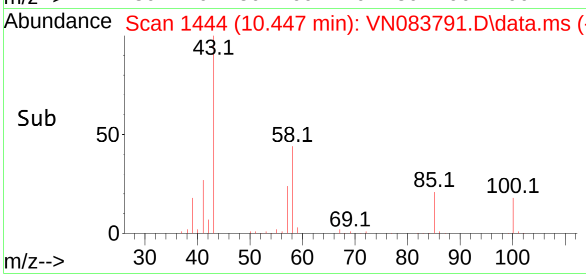

```
#50
Toluene-d8
Concen:   51.066 ug/l
RT:  10.565 min   Scan# 1464
Delta R.T.   -0.000 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion: 98 Resp:   293562
Ion   Ratio   Lower   Upper
 98   100
100    64.7    52.0    78.0
```









#51
4-Methyl-2-Pentanone
Concen: 287.840 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 43 Resp: 64506

Ion	Ratio	Lower	Upper
43	100		
58	38.2	31.6	47.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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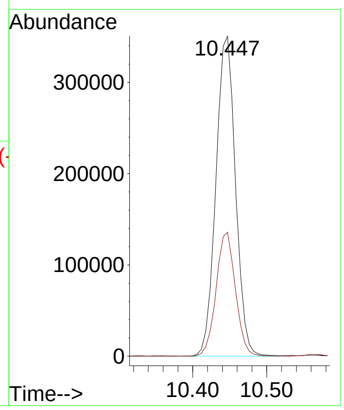

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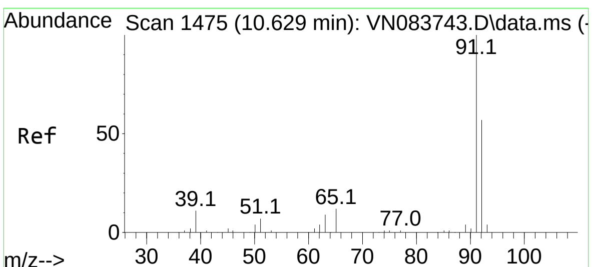
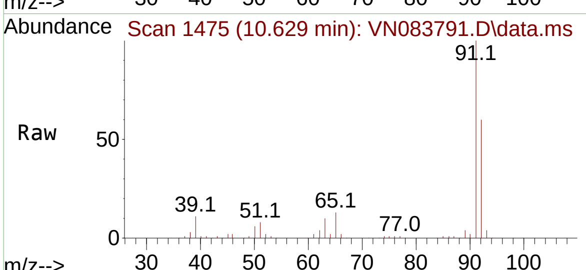
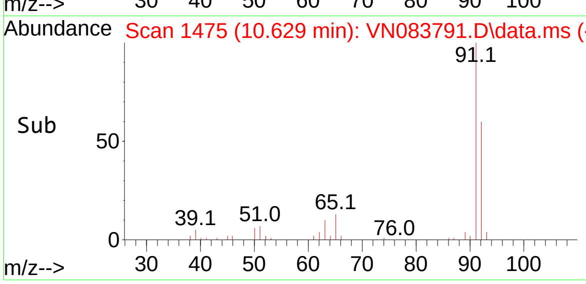


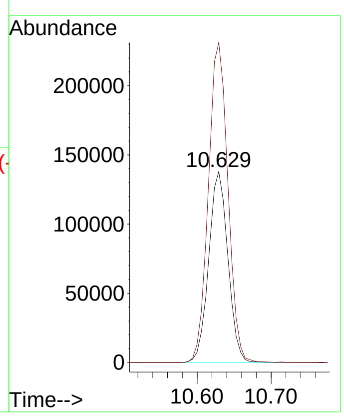




#52
Toluene
Concen: 53.901 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 92 Resp: 248372

Ion	Ratio	Lower	Upper
92	100		
91	170.7	134.7	202.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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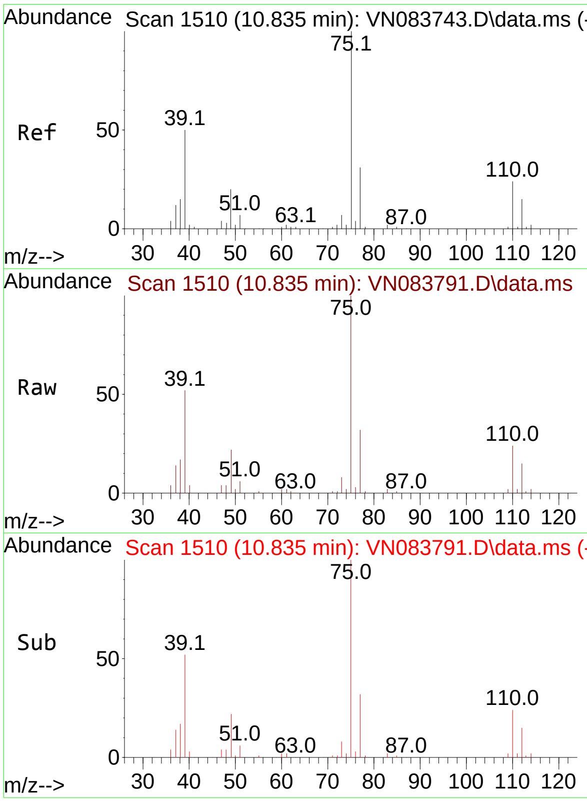
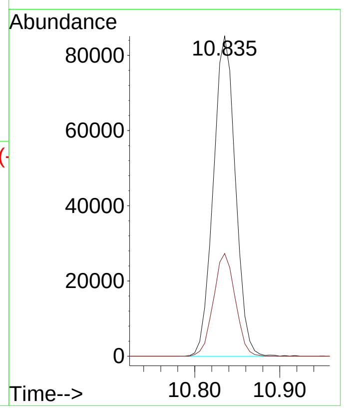
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

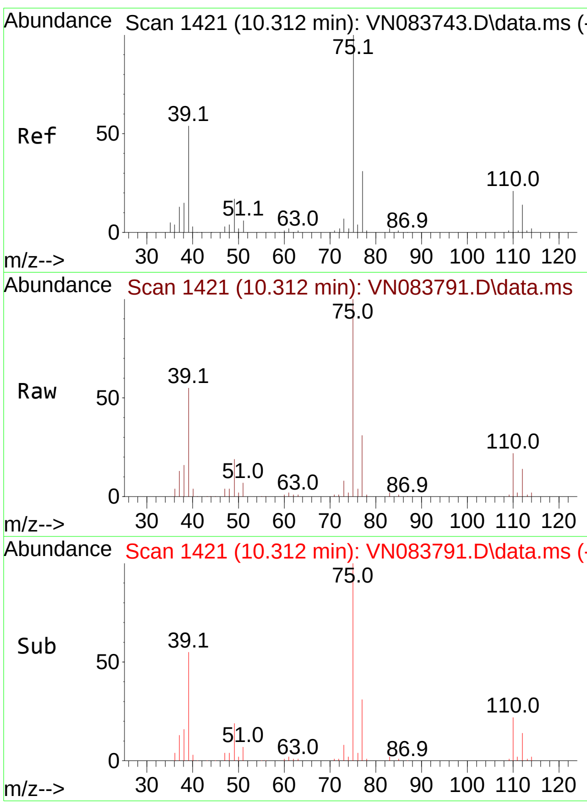


#53
t-1,3-Dichloropropene
Concen: 54.843 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 75 Resp: 15343

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.8	38.6

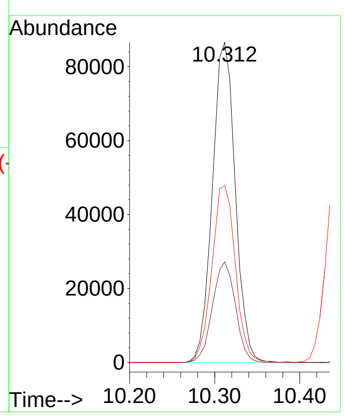




#54
cis-1,3-Dichloropropene
Concen: 55.039 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 75 Resp: 161745

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.0	37.6
39	55.2	42.6	64.0



Instrument :
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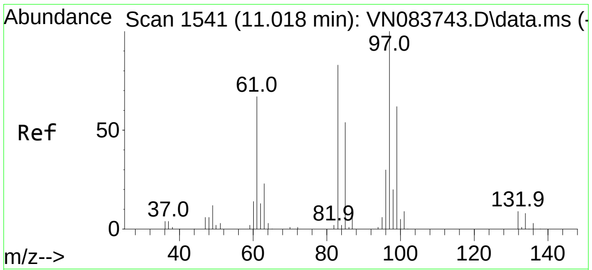
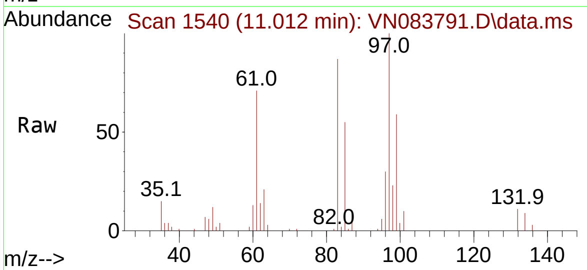
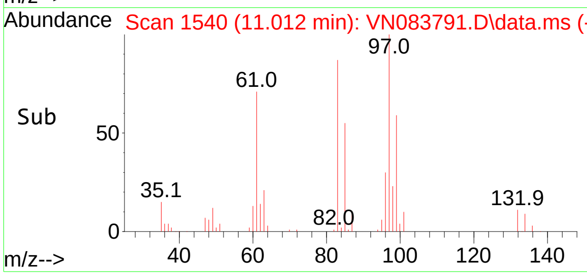
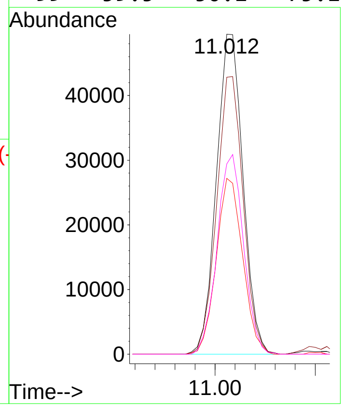


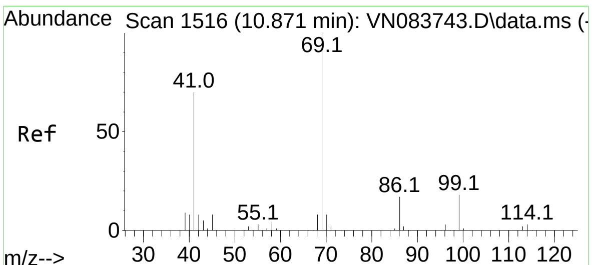


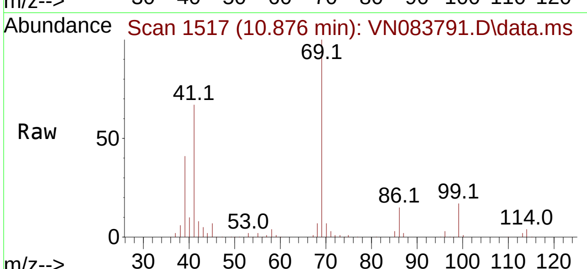


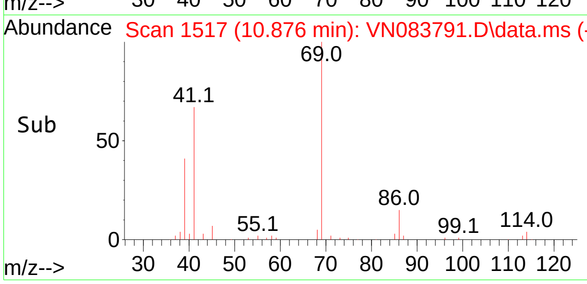

```
#55
1,1,2-Trichloroethane
Concen:   53.088 ug/l
RT:  11.012 min   Scan# 1
Delta R.T.   -0.006 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion: 97 Resp:    9132
Ion  Ratio   Lower   Upper
 97  100
 83   86.6    67.5   101.3
 85   55.0    44.2    66.2
 99   59.5    50.1    75.1
```



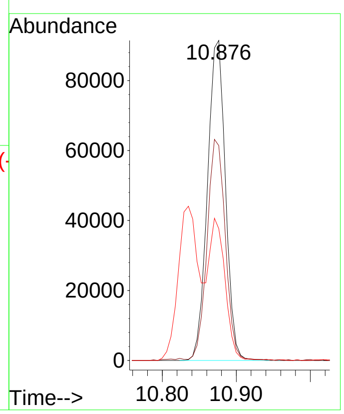







```
#56
Ethyl methacrylate
Concen:   58.555 ug/l
RT:  10.876 min   Scan# 1517
Delta R.T.   0.006 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion: 69 Resp:   154978
Ion  Ratio   Lower   Upper
 69  100
 41   70.8    53.9    80.9
 39   43.1    32.6    48.8
```



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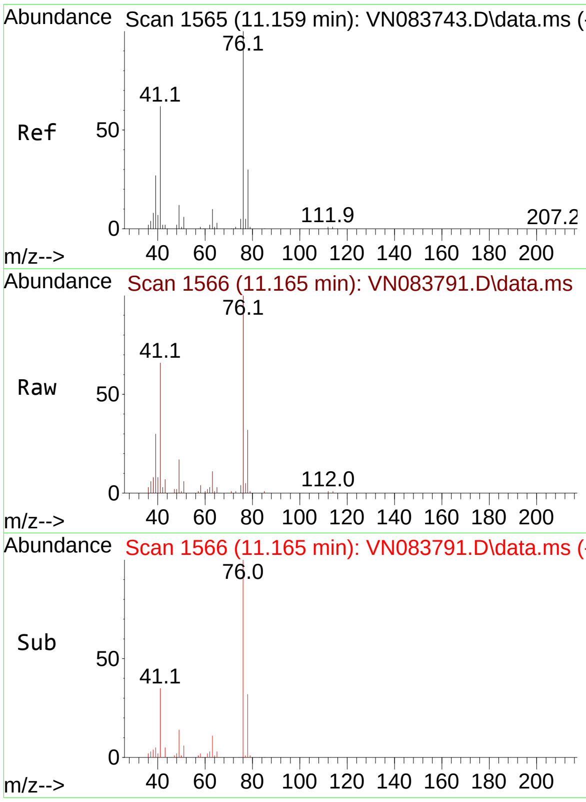
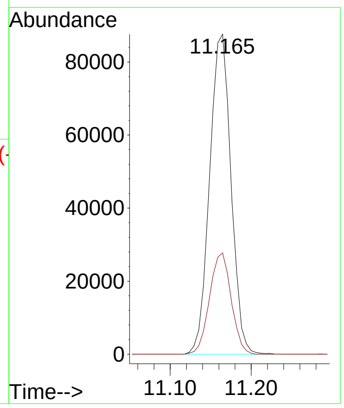
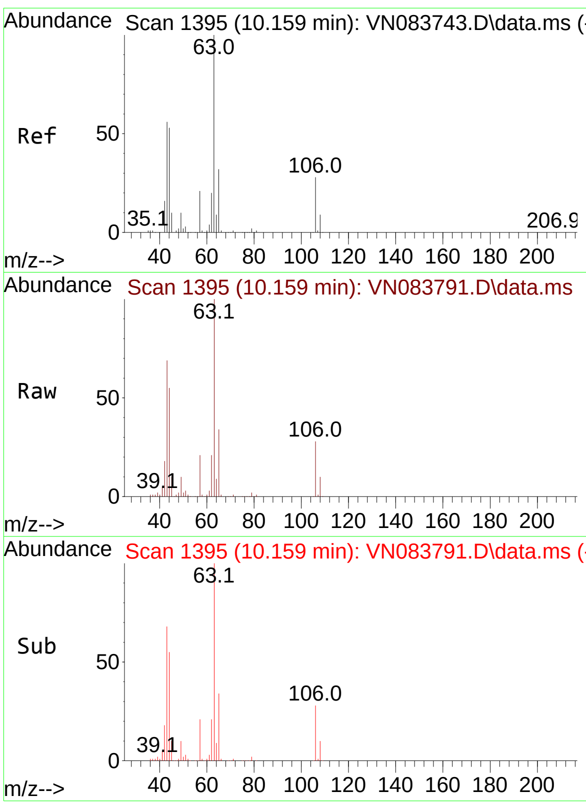


#57
1,3-Dichloropropane
Concen: 54.326 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 76 Resp: 16062

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.6

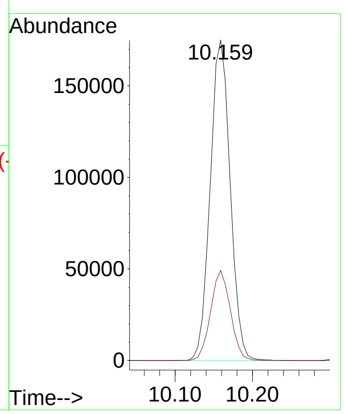




#58
2-Chloroethyl Vinyl ether
Concen: 329.440 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 63 Resp: 314176

Ion	Ratio	Lower	Upper
63	100		
106	27.7	23.3	34.9



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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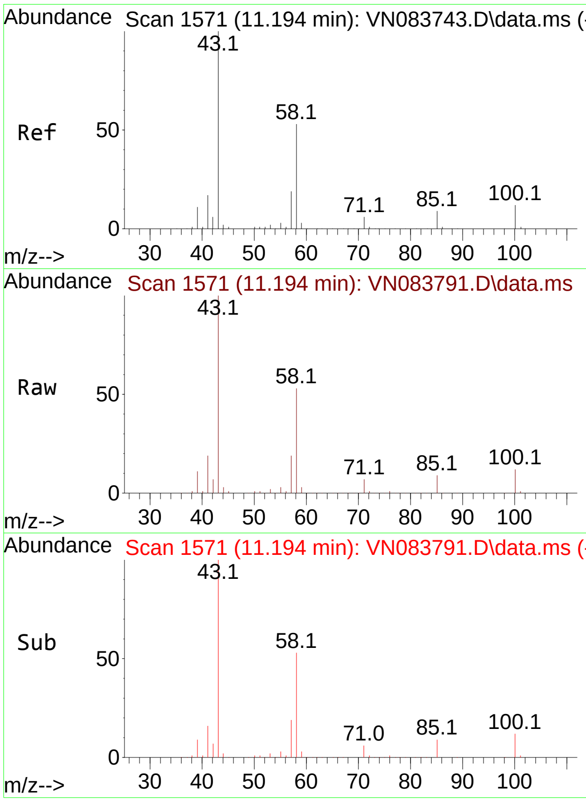
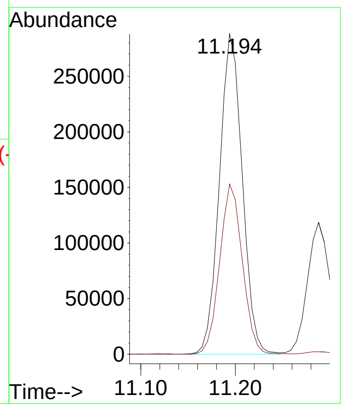
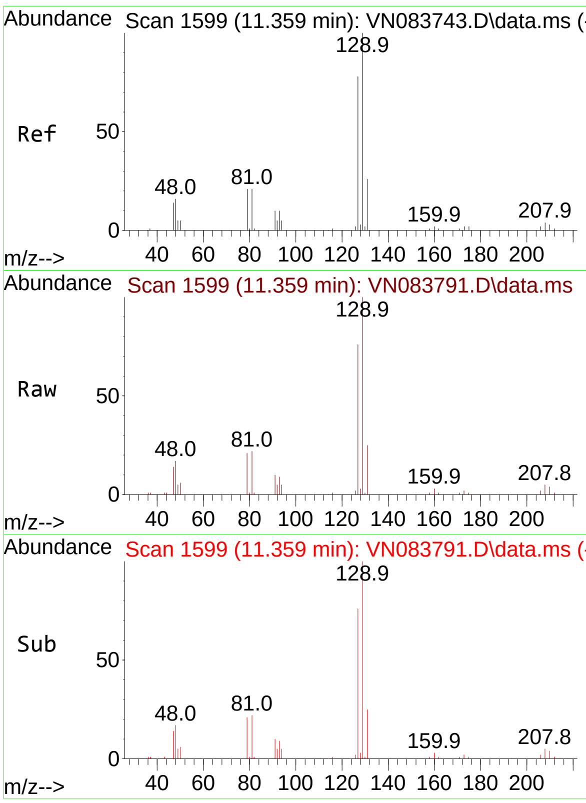


#59
2-Hexanone
Concen: 292.470 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 43 Resp: 48484

Ion	Ratio	Lower	Upper
43	100		
58	52.5	27.2	81.5

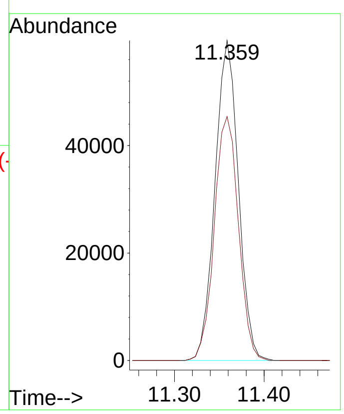




#60
Dibromochloromethane
Concen: 56.063 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:129 Resp: 107933

Ion	Ratio	Lower	Upper
129	100		
127	78.7	39.0	116.9



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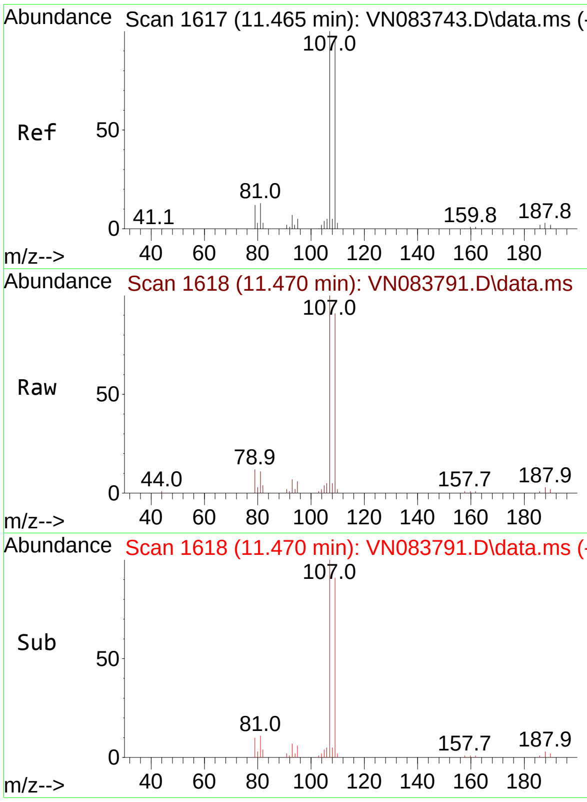
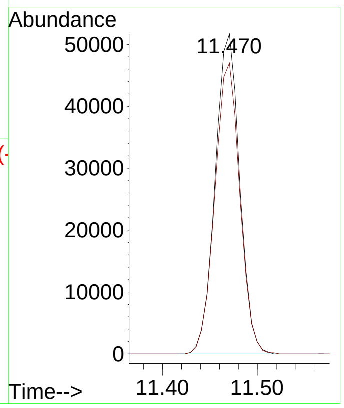
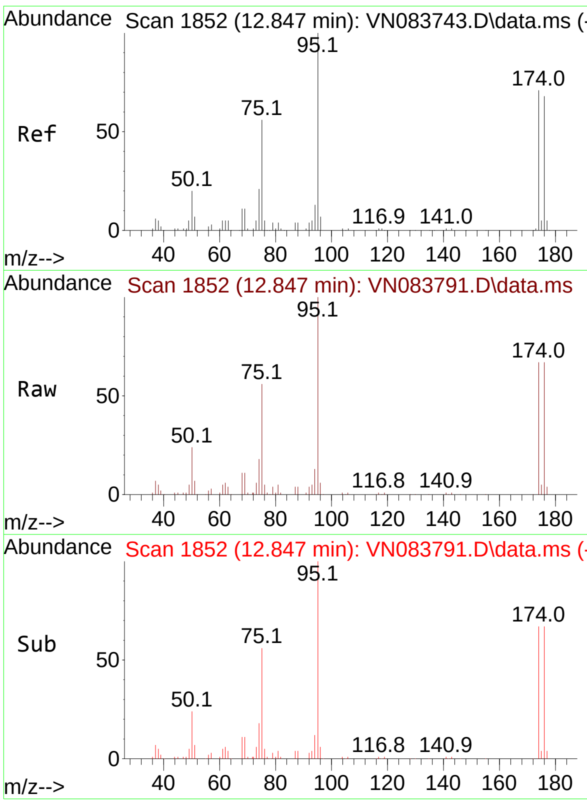



```
#61
1,2-Dibromoethane
Concen:   54.204 ug/l
RT:  11.470 min  Scan# 1
Delta R.T.  0.006 min
Lab File:   VN083791.D
Acq: 11 Sep 2024  12:59

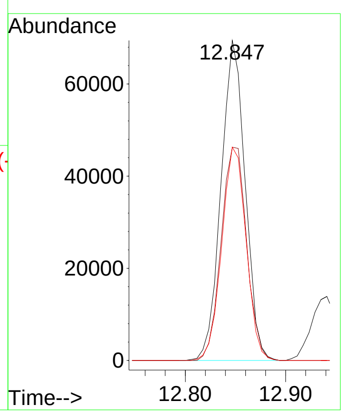
Tgt Ion:107 Resp:   9299
Ion  Ratio  Lower  Upper
107  100
109   92.6   75.6  113.4
```






```
#62
4-Bromofluorobenzene
Concen:   48.909 ug/l
RT:  12.847 min  Scan# 1852
Delta R.T.  -0.000 min
Lab File:   VN083791.D
Acq: 11 Sep 2024  12:59

Tgt Ion: 95 Resp:  116001
Ion  Ratio  Lower  Upper
 95  100
174   70.6    0.0  139.8
176   67.3    0.0  131.4
```



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
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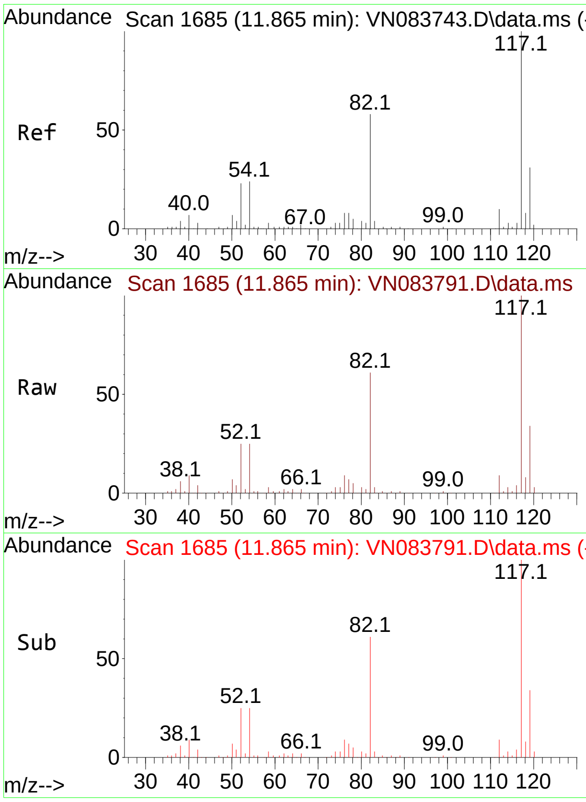
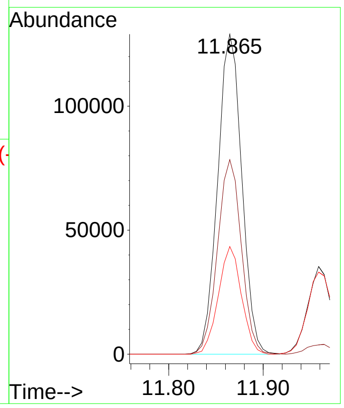
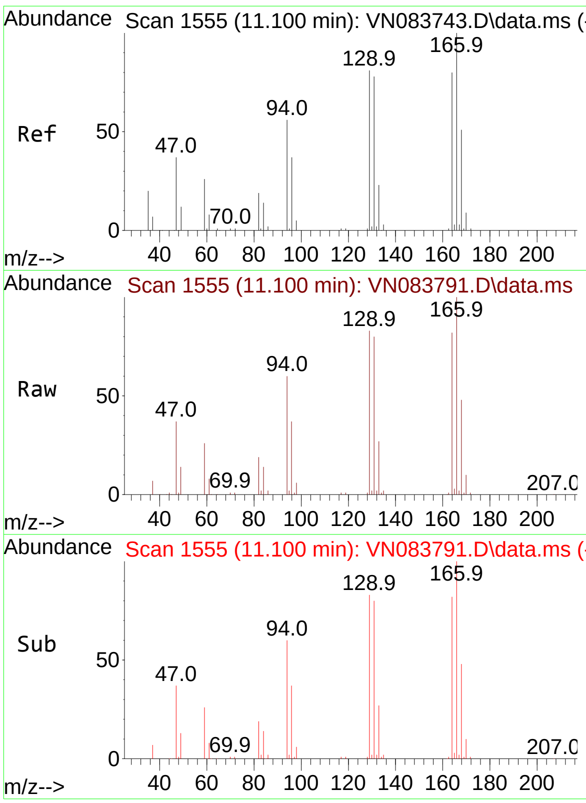


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:117 Resp: 22878

Ion	Ratio	Lower	Upper
117	100		
82	60.8	47.4	71.0
119	33.7	26.3	39.5

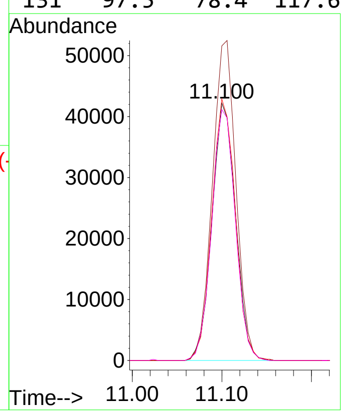


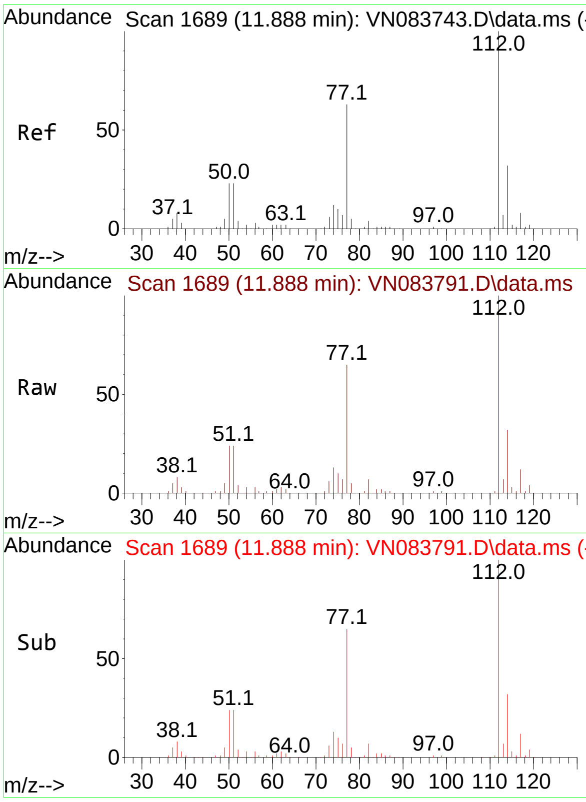


#64
Tetrachloroethene
Concen: 50.762 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:164 Resp: 77234

Ion	Ratio	Lower	Upper
164	100		
166	122.3	103.7	155.5
129	101.6	79.9	119.9
131	97.5	78.4	117.6





#65
Chlorobenzene
Concen: 50.891 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:112 Resp: 25877

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.7	38.5

Instrument :
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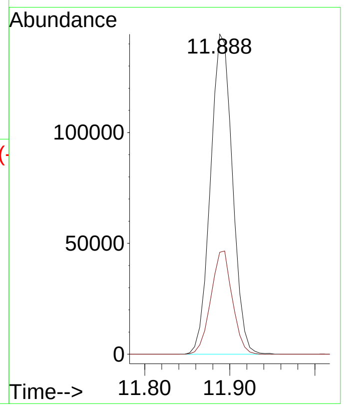

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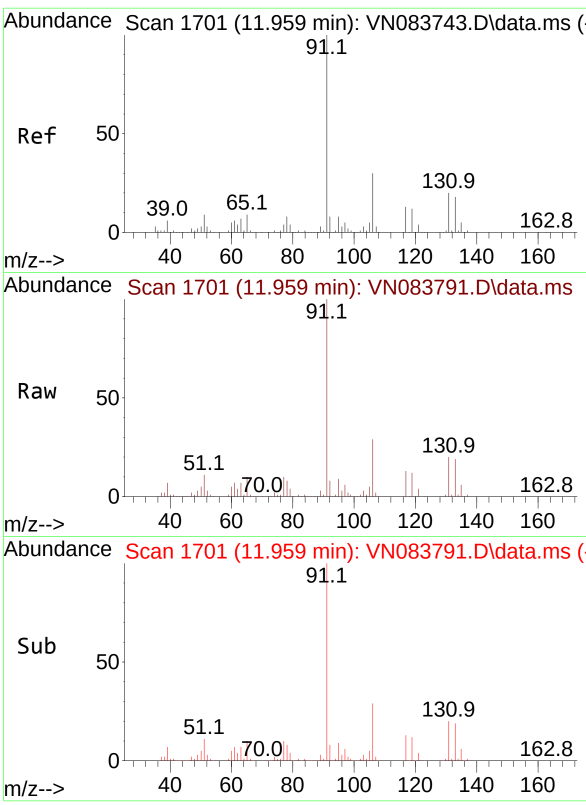
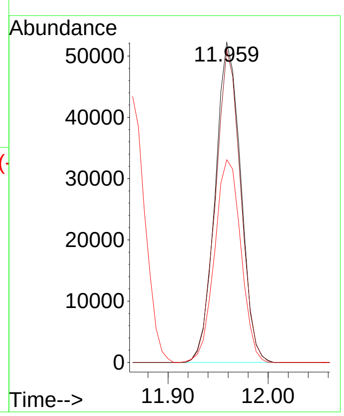


#66
1,1,1,2-Tetrachloroethane
Concen: 52.601 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:131 Resp: 92724

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.5	142.6
119	65.4	31.6	94.8



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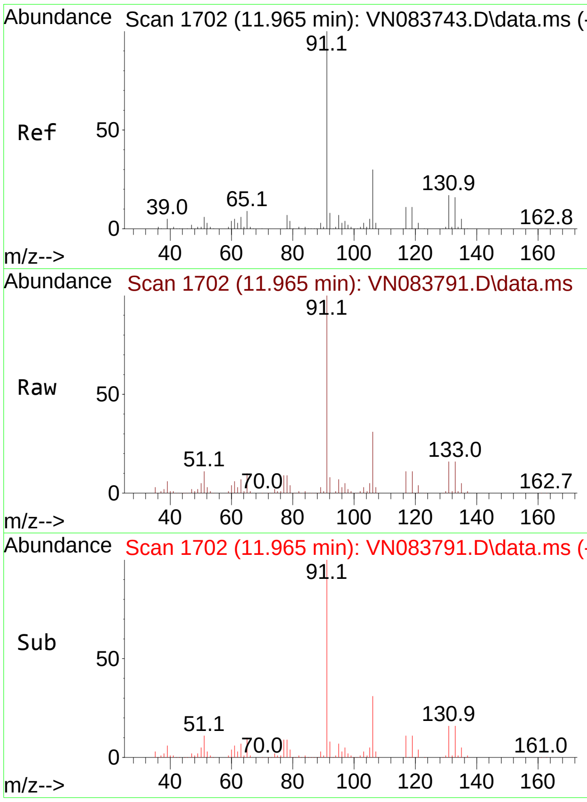
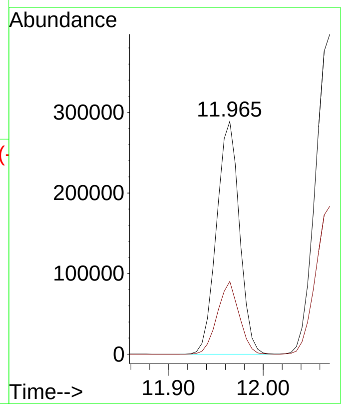
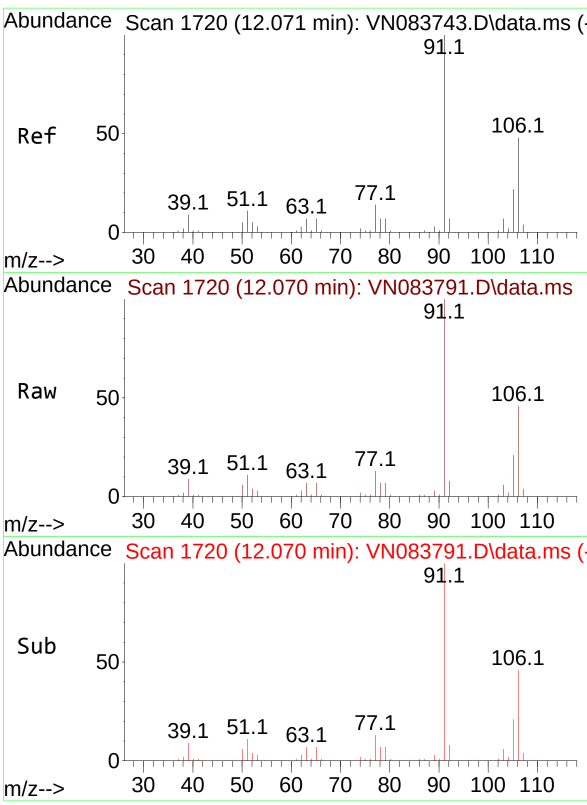



```
#67
Ethyl Benzene
Concen:   53.856 ug/l
RT:  11.965 min  Scan# 1
Delta R.T.   -0.000 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

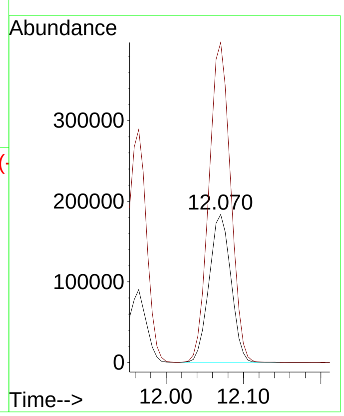
Tgt Ion: 91 Resp:  48648
Ion  Ratio  Lower  Upper
 91  100
106   31.2   24.3   36.5
```






```
#68
m/p-Xylenes
Concen:  107.352 ug/l
RT:  12.070 min  Scan# 1720
Delta R.T.   -0.000 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion:106 Resp:   360018
Ion  Ratio  Lower  Upper
106  100
 91  214.8  169.2  253.8
```



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
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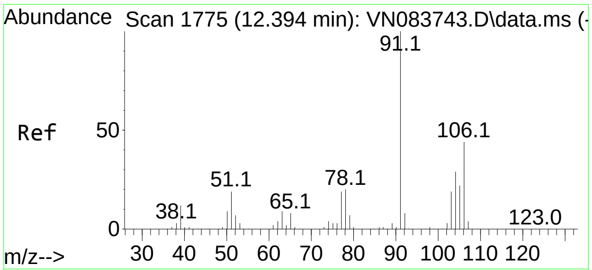
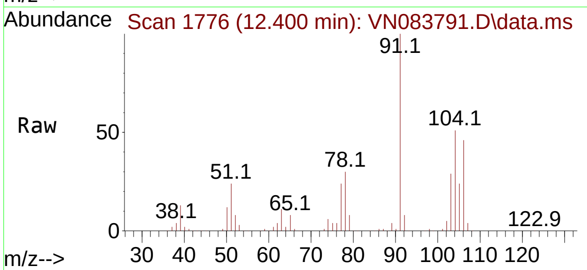
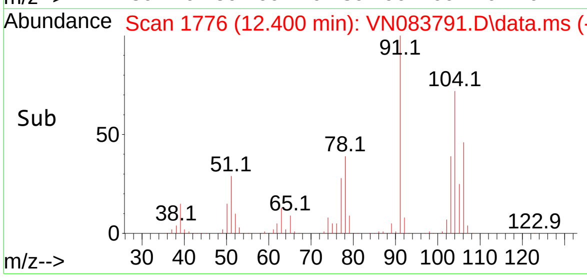


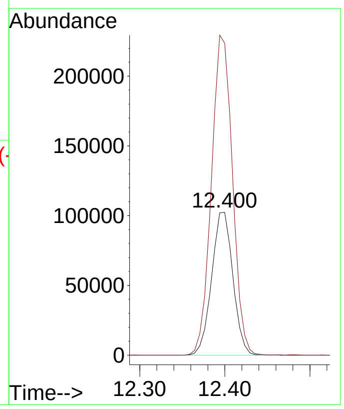


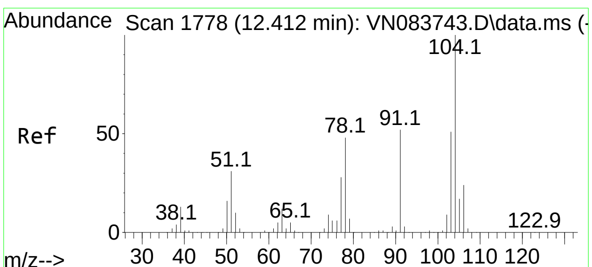


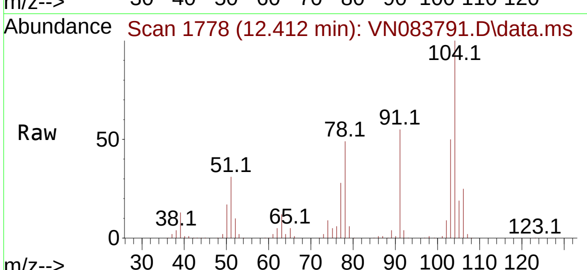
#69
o-Xylene
Concen: 54.632 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

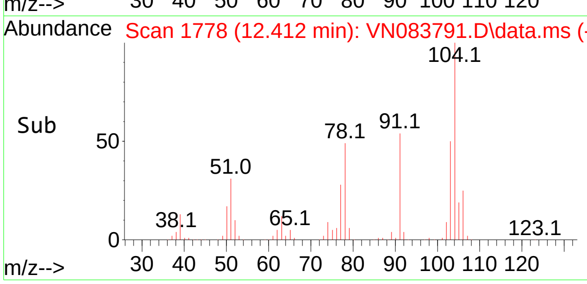
Tgt Ion:106 Resp: 17736

Ion	Ratio	Lower	Upper
106	100		
91	222.8	112.9	338.6





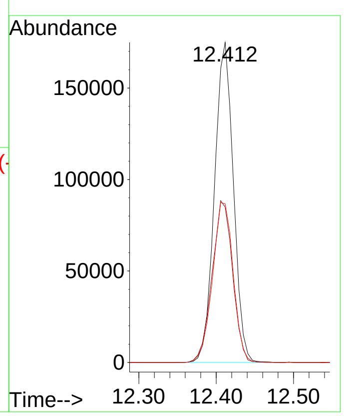


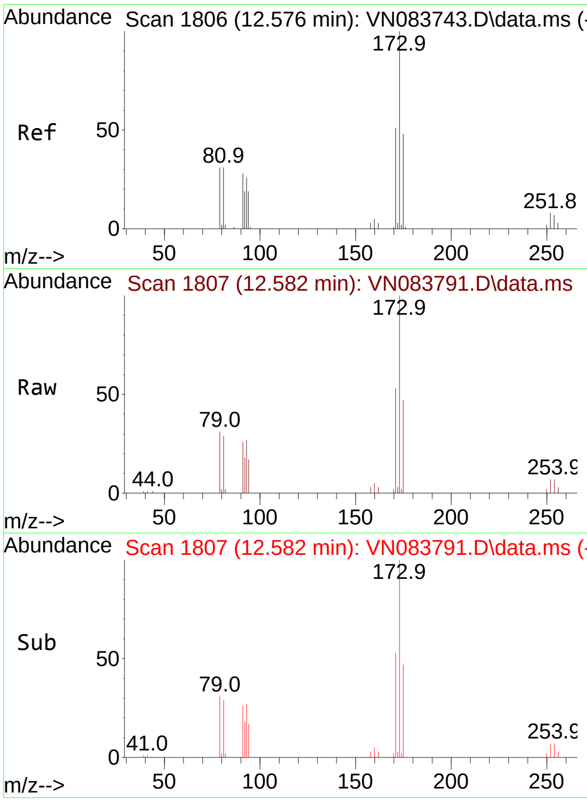


#70
Styrene
Concen: 55.807 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:104 Resp: 297348

Ion	Ratio	Lower	Upper
104	100		
78	54.9	43.3	64.9
103	54.6	43.4	65.2

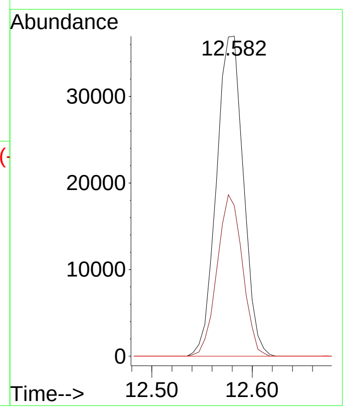




#71
Bromoform
Concen: 58.043 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:173 Resp: 6894

Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.1	72.2
254	0.0	0.0	0.0



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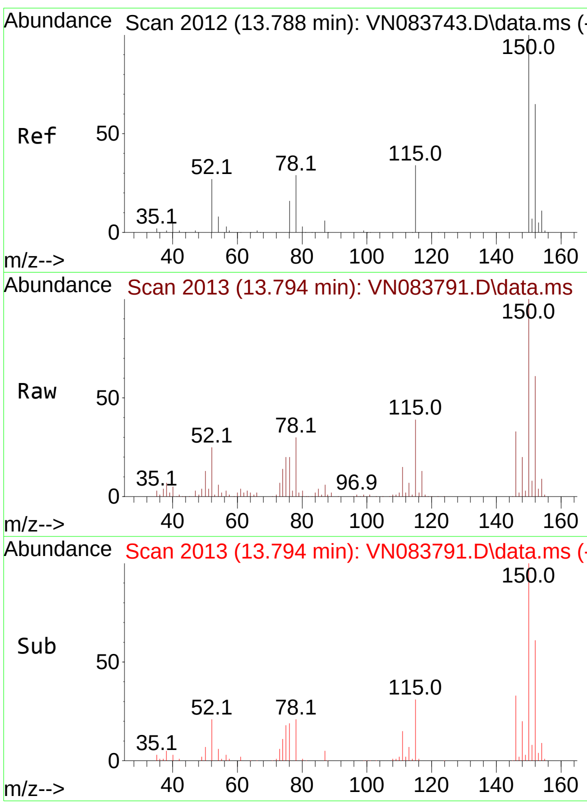
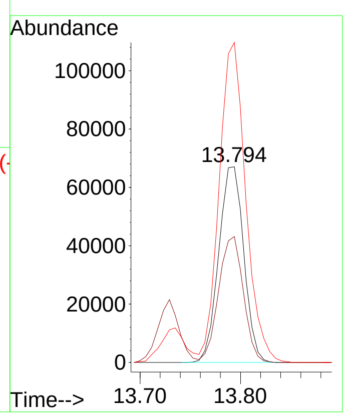
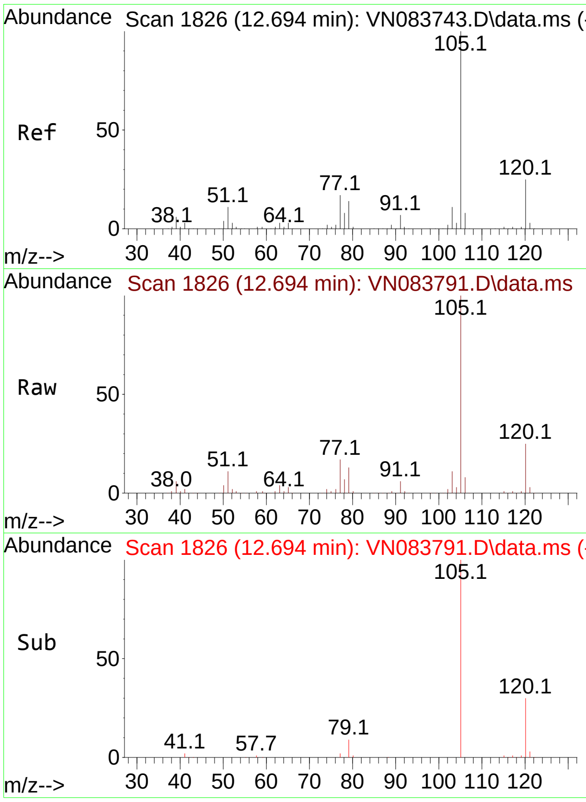


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:152 Resp: 116418

Ion	Ratio	Lower	Upper
152	100		
115	63.4	32.2	96.6
150	172.9	0.0	348.6





#73
Isopropylbenzene
Concen: 51.446 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:105 Resp: 46336

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.6	37.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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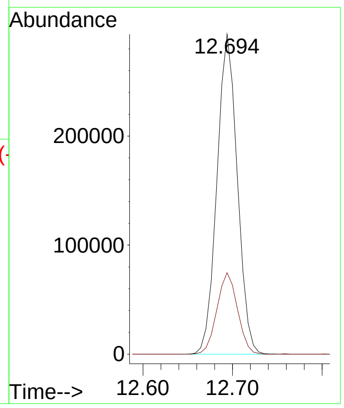
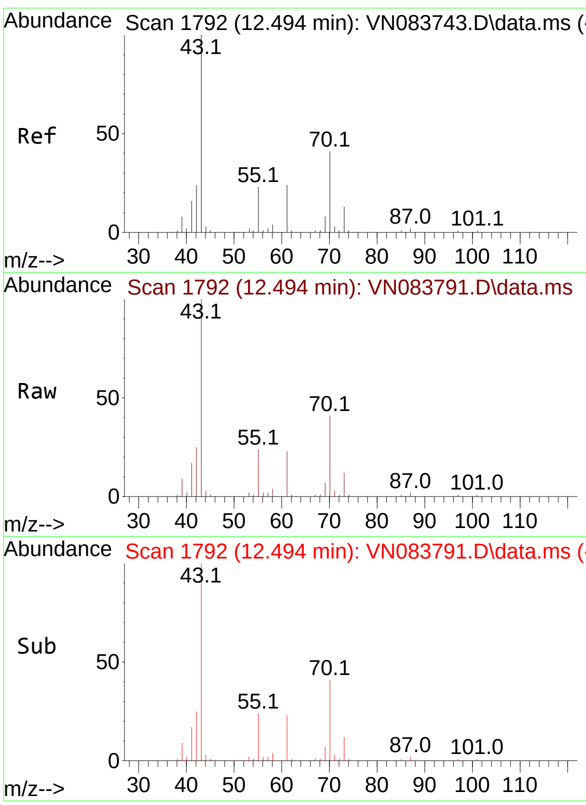
Supervised By :Mahesh Dadoda 09/12/2024

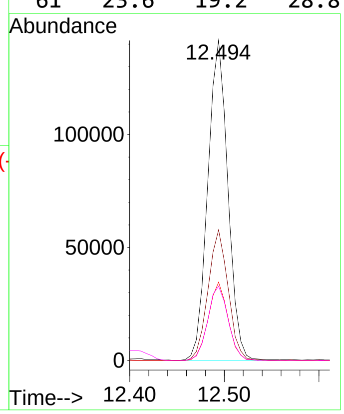


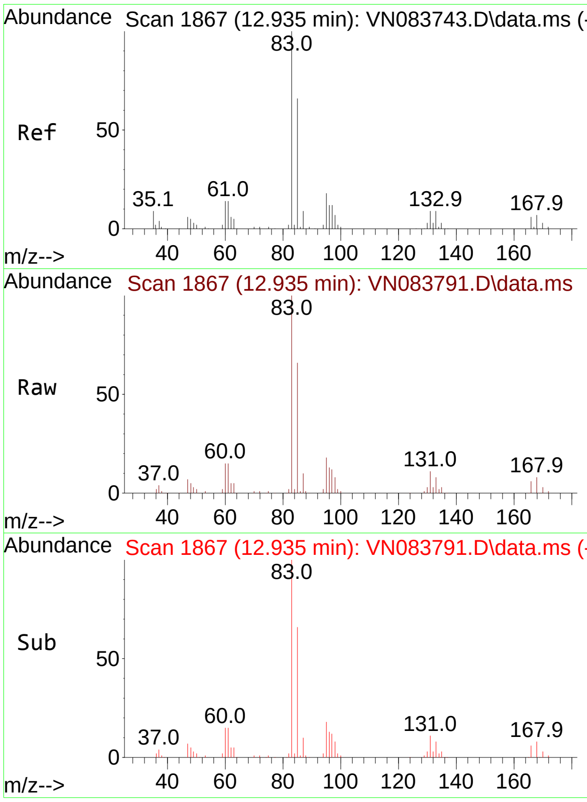


#74
N-amyl acetate
Concen: 54.568 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 43 Resp: 209696

Ion	Ratio	Lower	Upper
43	100		
70	40.6	34.5	51.7
55	23.9	18.6	28.0
61	23.6	19.2	28.8

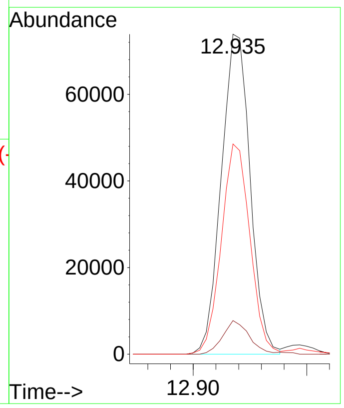




#75
1,1,2,2-Tetrachloroethane
Concen: 49.340 ug/l
RT: 12.935 min   Scan# 1
Delta R.T.   -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion: 83 Resp: 13057

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.2	15.6
85	65.1	31.9	95.9



Instrument :
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ClientSampleId :
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Reviewed By :John Carlone   09/12/2024
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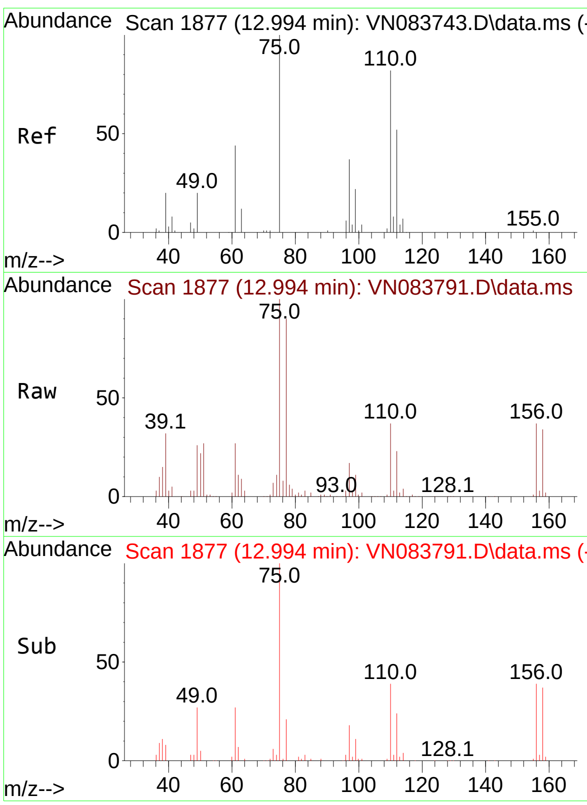
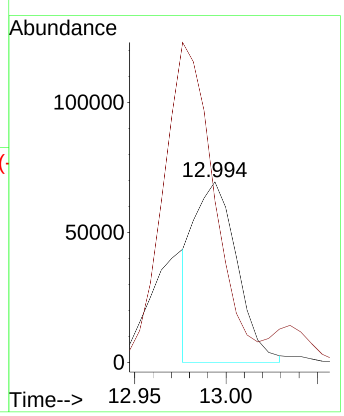


#76
1,2,3-Trichloropropane
Concen: 48.510 ug/l m
RT: 12.994 min   Scan# 1877
Delta R.T.   -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion: 75 Resp: 113955

Ion	Ratio	Lower	Upper
75	100		
77	210.1	95.2	285.6



Instrument : MSVOA_N
ClientSampleId : VSTDCCC050

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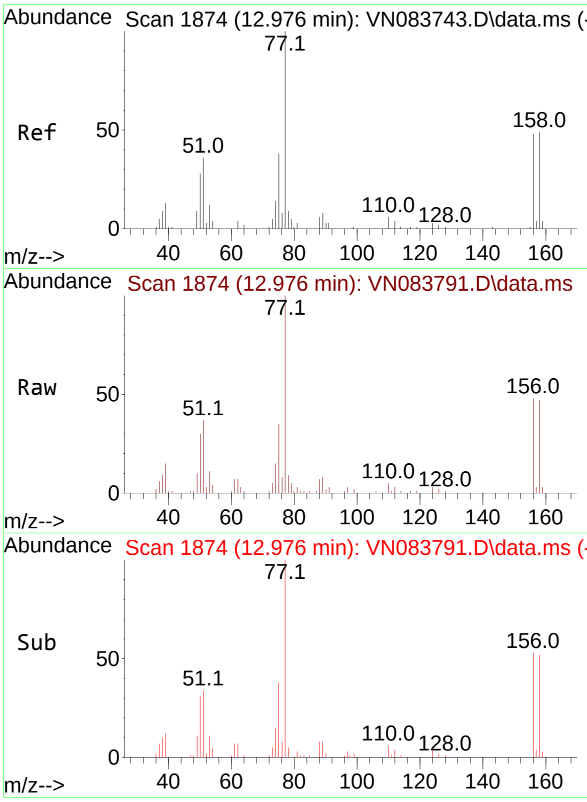
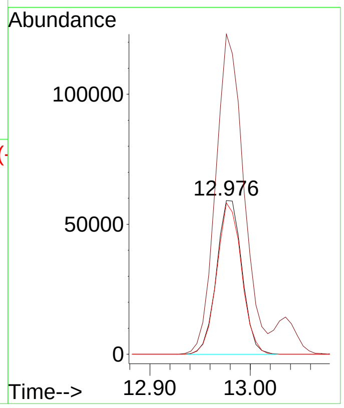
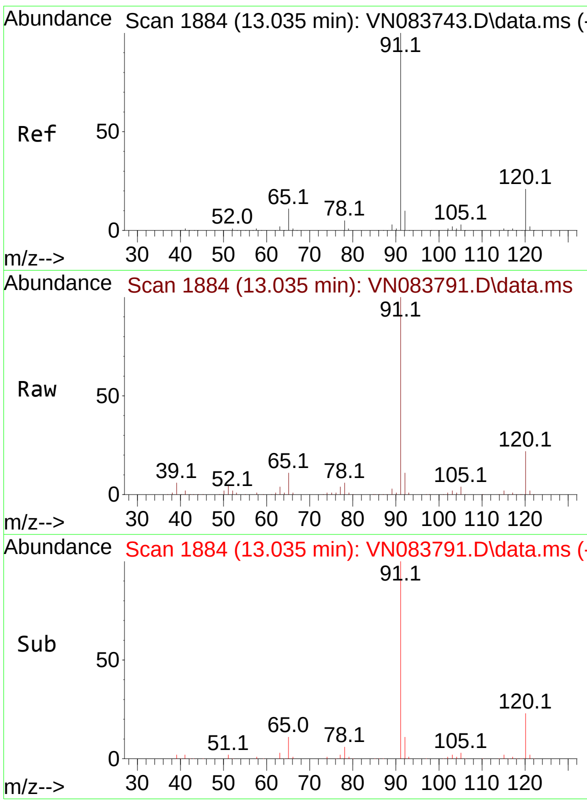


#77
Bromobenzene
Concen: 48.069 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:156 Resp: 10421

Ion	Ratio	Lower	Upper
156	100		
77	229.8	114.3	343.1
158	95.9	48.9	146.7

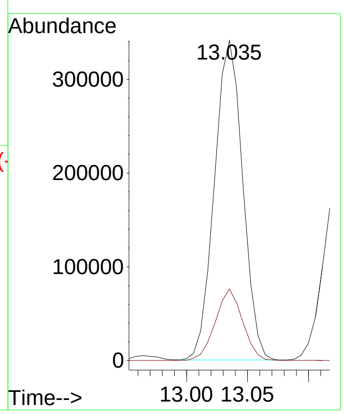




#78
n-propylbenzene
Concen: 52.577 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 91 Resp: 550980

Ion	Ratio	Lower	Upper
91	100		
120	21.5	11.0	33.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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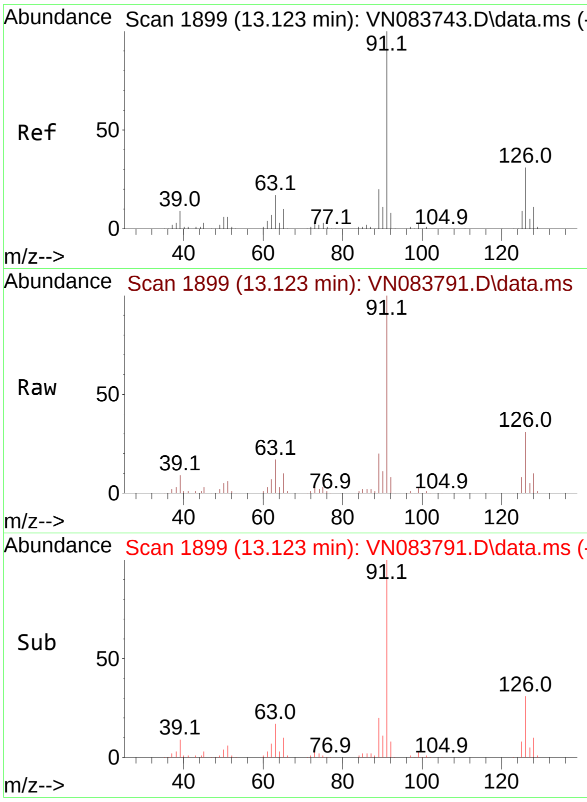
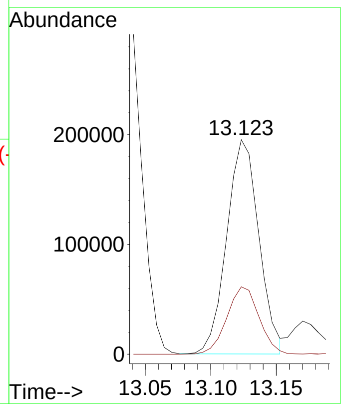
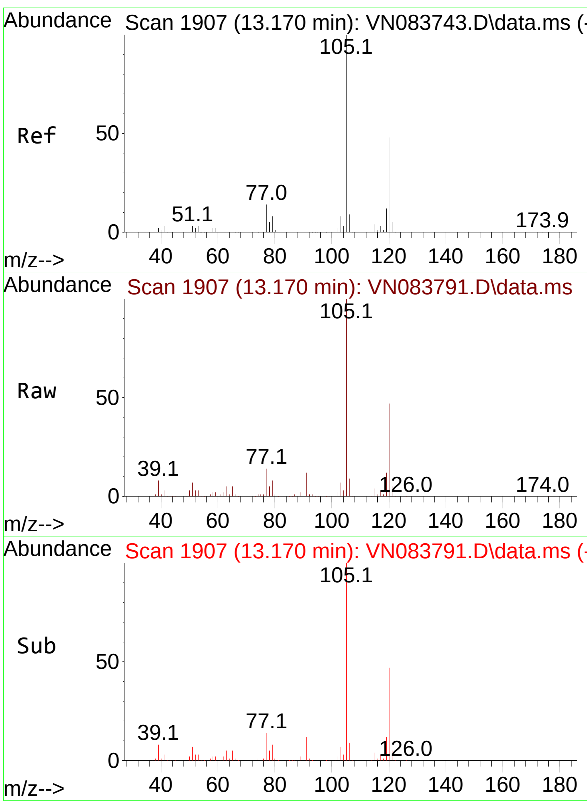


#79
2-Chlorotoluene
Concen: 49.973 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 91 Resp: 33398

Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.4	46.2

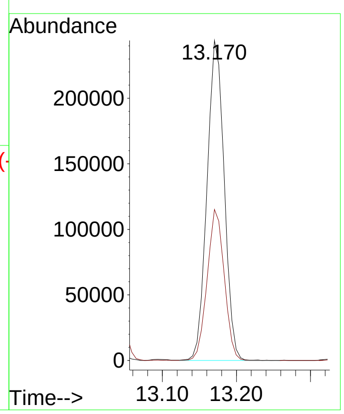




#80
1,3,5-Trimethylbenzene
Concen: 51.928 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:105 Resp: 394325

Ion	Ratio	Lower	Upper
105	100		
120	46.9	23.4	70.3



Instrument : MSVOA_N
ClientSampleId : VSTDCCC050

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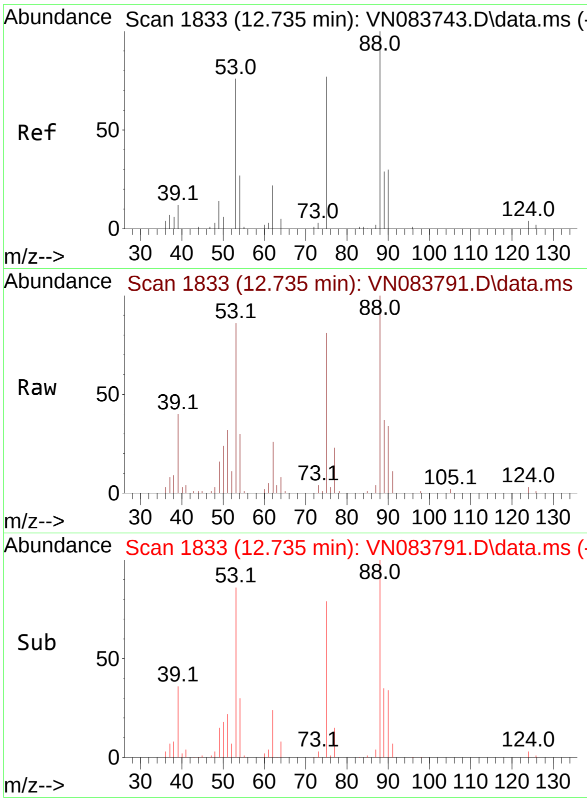
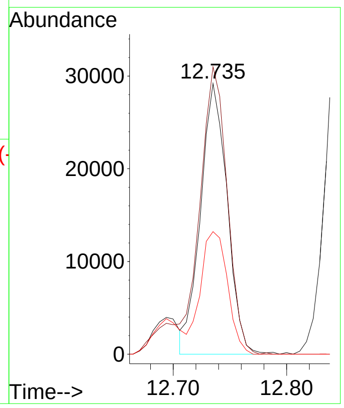
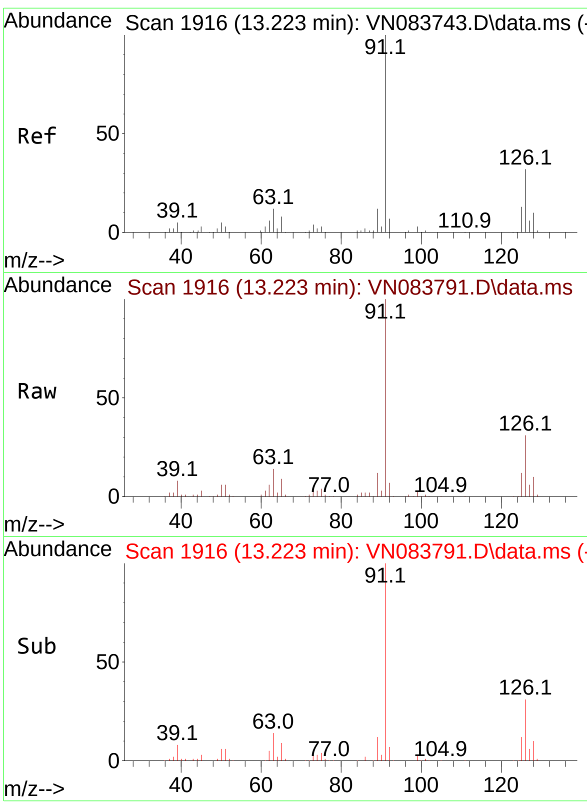


#81
trans-1,4-Dichloro-2-butene
Concen: 53.334 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 75 Resp: 4783

Ion	Ratio	Lower	Upper
75	100		
53	119.5	81.2	121.8
89	45.7	35.7	53.5

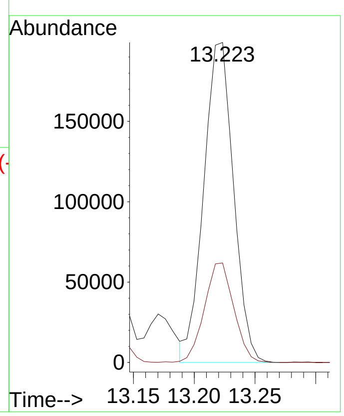


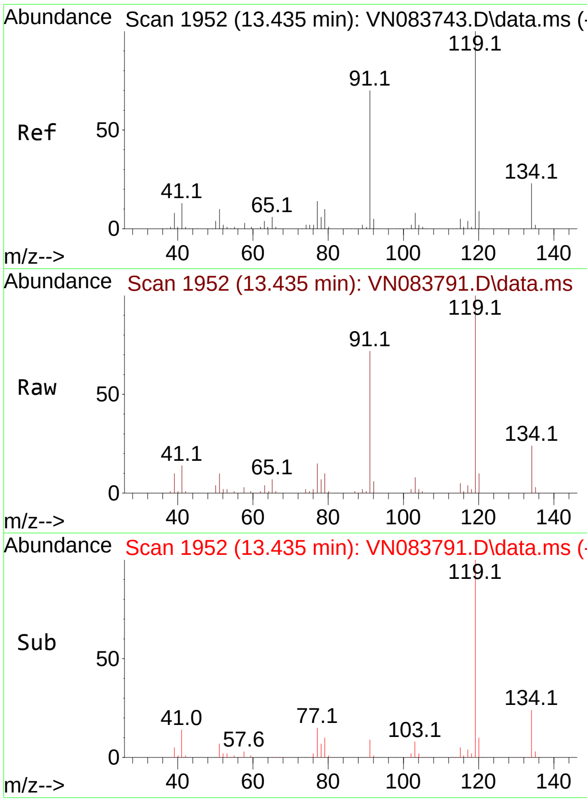


#82
4-Chlorotoluene
Concen: 50.677 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 91 Resp: 339883

Ion	Ratio	Lower	Upper
91	100		
126	30.7	15.4	46.2

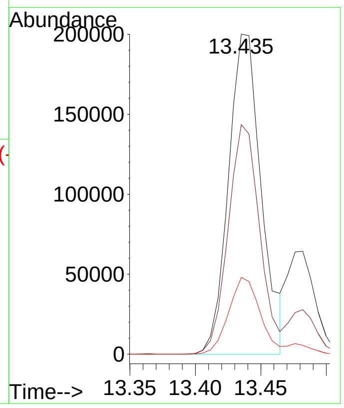




#83
tert-Butylbenzene
Concen: 52.456 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:119 Resp: 34849

Ion	Ratio	Lower	Upper
119	100		
91	69.2	34.5	103.6
134	23.5	12.8	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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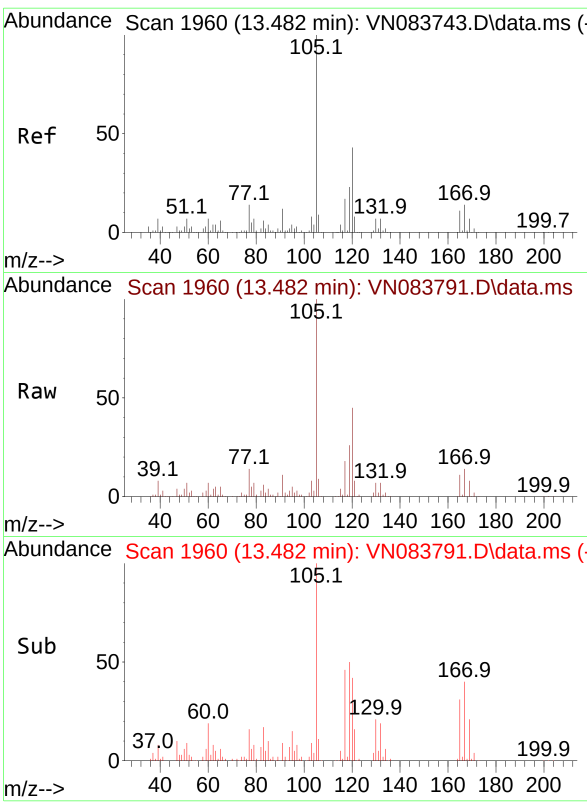
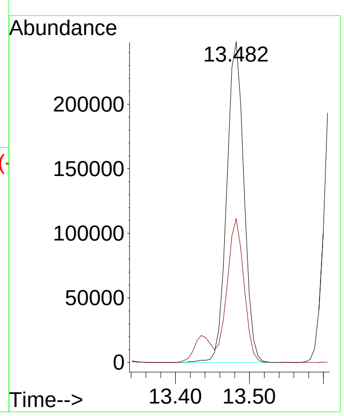


#84
1,2,4-Trimethylbenzene
Concen: 52.561 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:105 Resp: 400930

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.8	65.4



Instrument : MSVOA_N
ClientSampleId : VSTDCCC050

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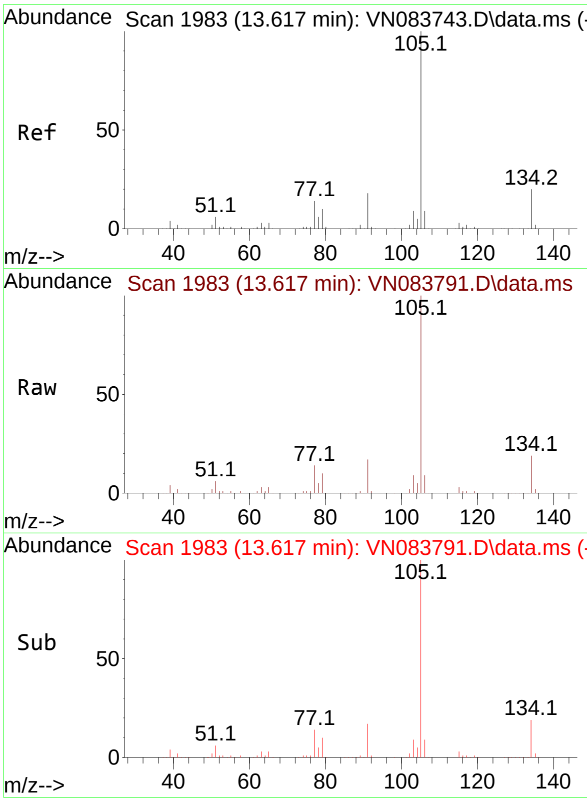
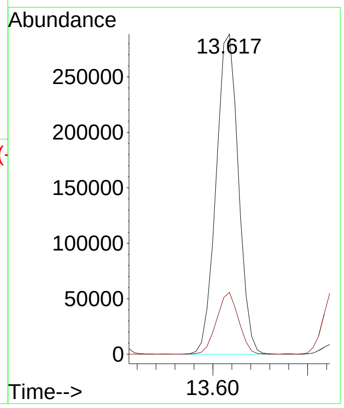
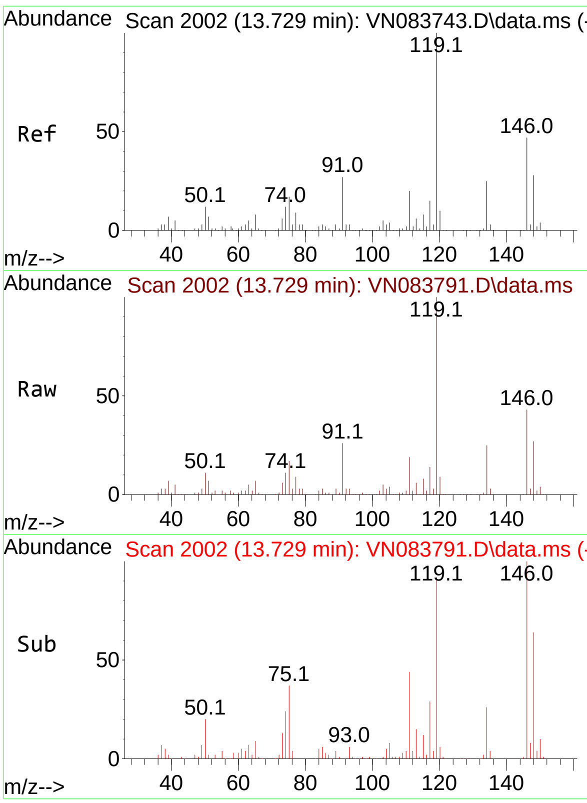



```
#85
sec-Butylbenzene
Concen:    53.744 ug/l
RT:  13.617 min   Scan# 19
Delta R.T.   -0.000 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

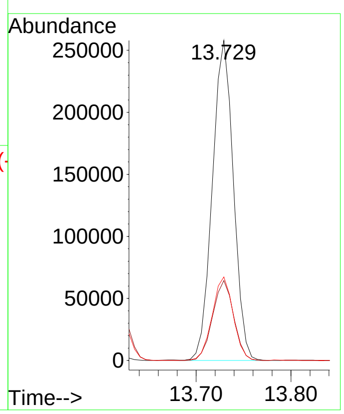
Tgt Ion:105 Resp:  47353
Ion  Ratio   Lower   Upper
105  100
134   19.0     9.7    29.1
```

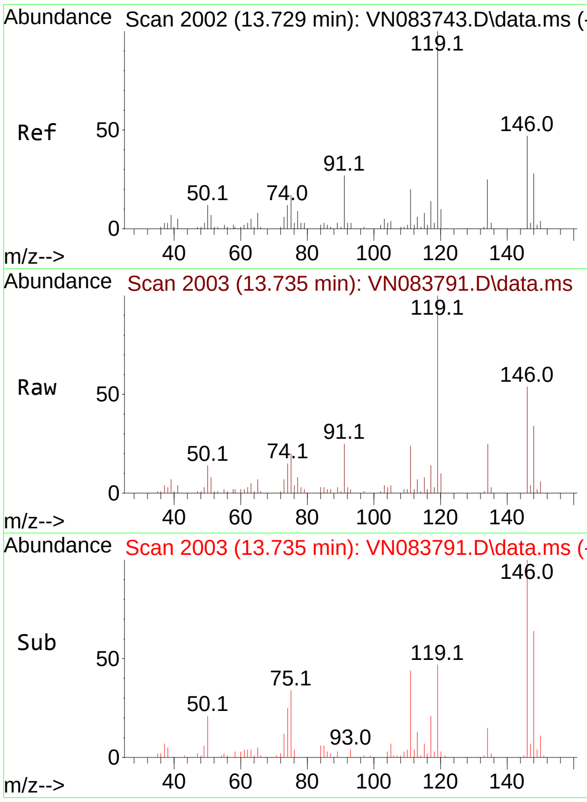





```
#86
p-Isopropyltoluene
Concen:    53.893 ug/l
RT:  13.729 min   Scan# 2002
Delta R.T.   -0.000 min
Lab File:    VN083791.D
Acq: 11 Sep 2024   12:59

Tgt Ion:119 Resp:   398051
Ion  Ratio   Lower   Upper
119  100
134   24.9    12.8    38.3
 91   25.9    12.9    38.7
```

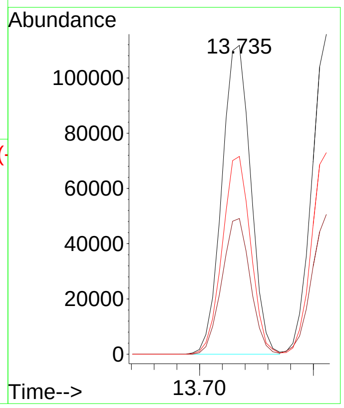




#87
1,3-Dichlorobenzene
Concen: 48.158 ug/l
RT: 13.735 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:146 Resp: 19704

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.7	65.1
148	62.8	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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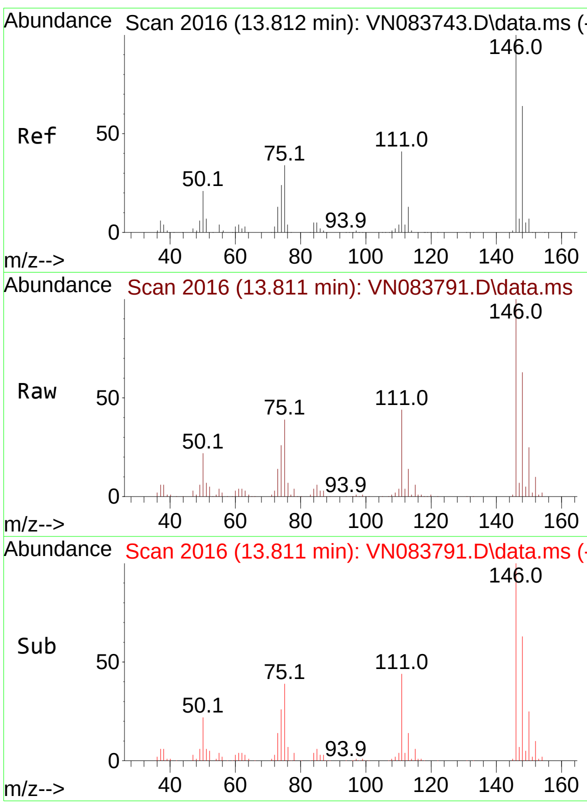
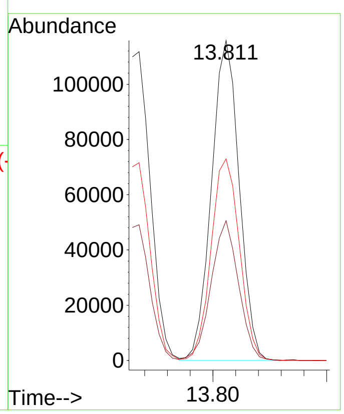
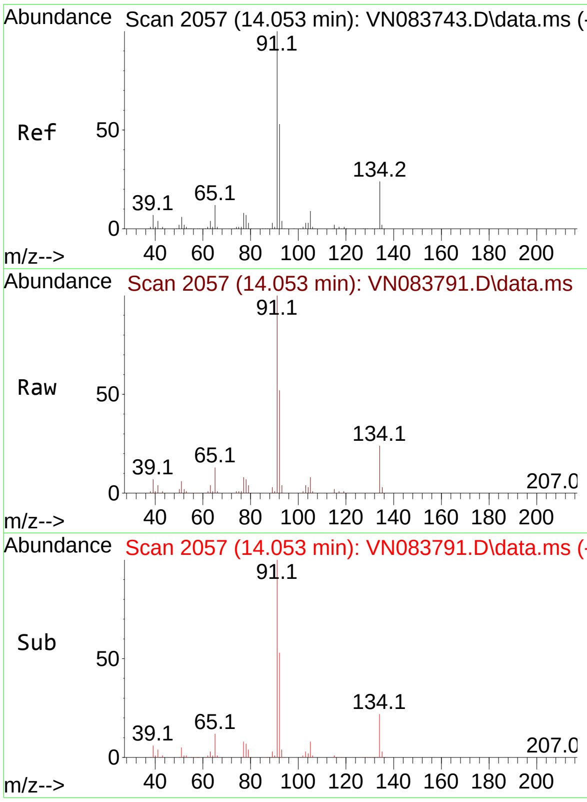


#88
1,4-Dichlorobenzene
Concen: 47.361 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:146 Resp: 196222

Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.3	64.0
148	64.4	32.0	96.2

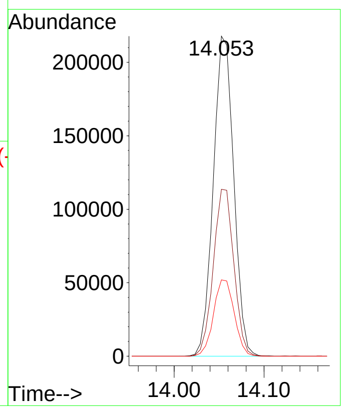




#89
n-Butylbenzene
Concen: 51.891 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 91 Resp: 34411

Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.7	80.1
134	24.2	12.2	36.4



Instrument :
MSVOA_N
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VSTDCCC050

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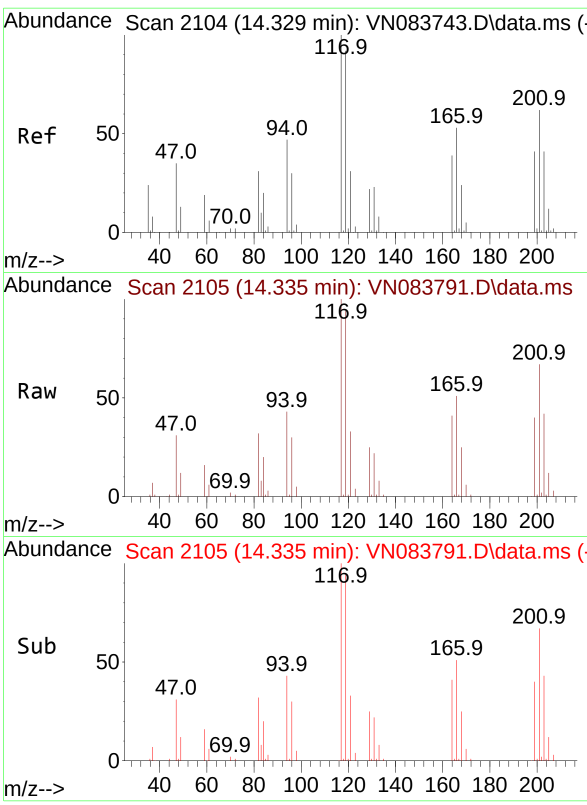
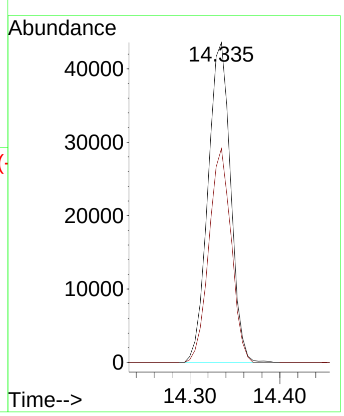


#90
Hexachloroethane
Concen: 51.321 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:117 Resp: 76196

Ion	Ratio	Lower	Upper
117	100		
201	65.9	32.8	98.3



Instrument :
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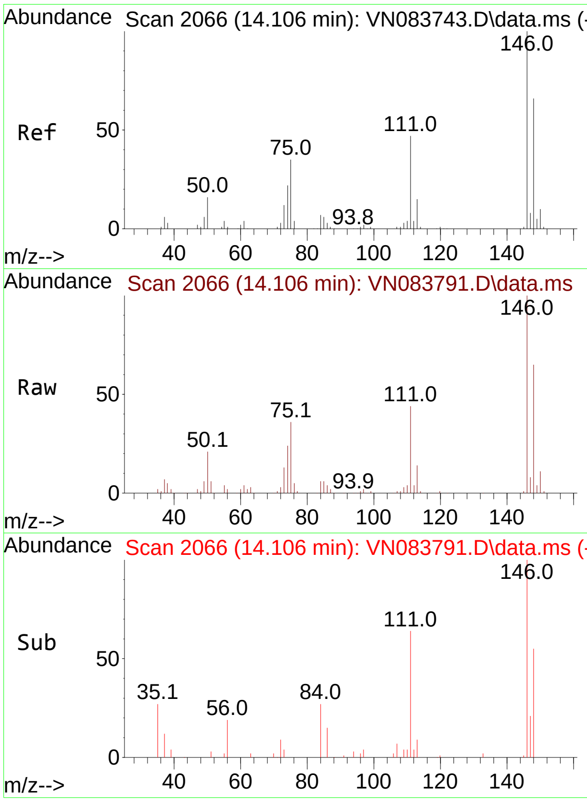
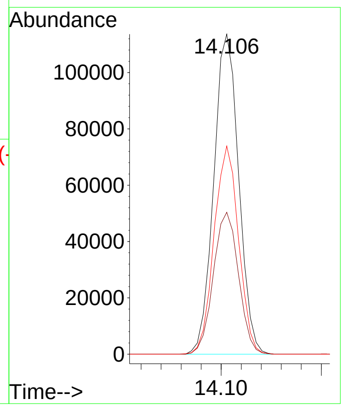
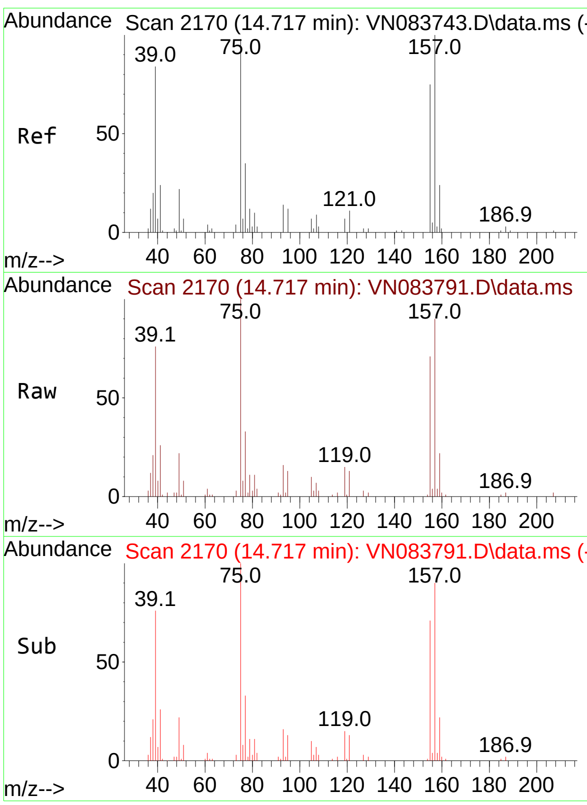


#91
1,2-Dichlorobenzene
Concen: 49.724 ug/l
RT: 14.106 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:146 Resp: 19635

Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.8	68.3
148	63.9	32.1	96.5

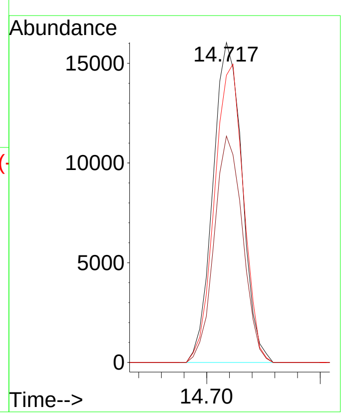


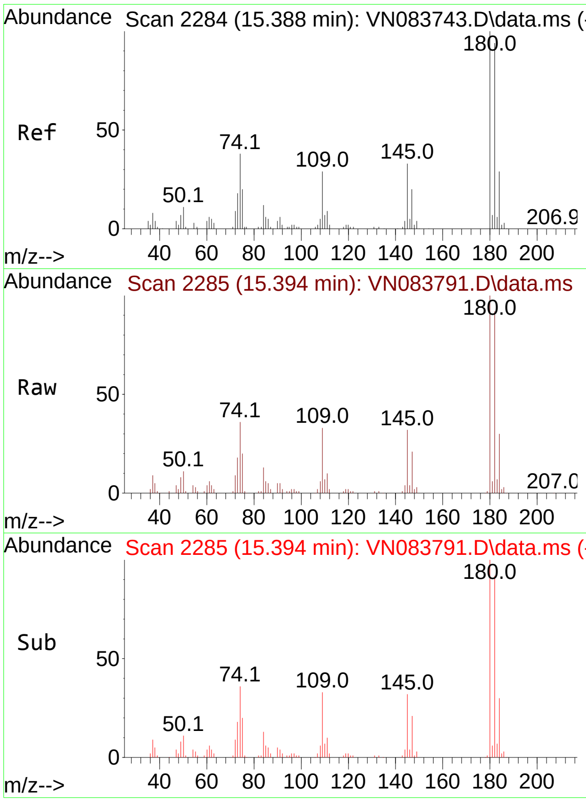


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.588 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion: 75 Resp: 28797

Ion	Ratio	Lower	Upper
75	100		
155	68.9	35.9	107.7
157	92.5	47.5	142.5





#93
1,2,4-Trichlorobenzene
Concen: 49.134 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:180 Resp: 10411

Ion	Ratio	Lower	Upper
180	100		
182	93.0	48.1	144.3
145	33.6	16.9	50.7

Instrument :
MSVOA_N
ClientSampleId :
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Reviewed By :John Carlone 09/12/2024
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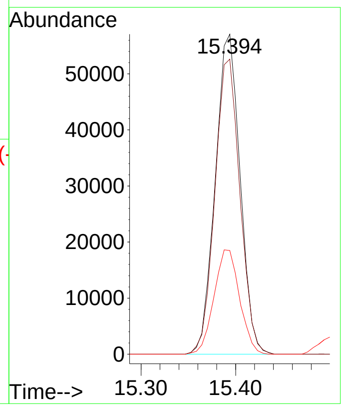
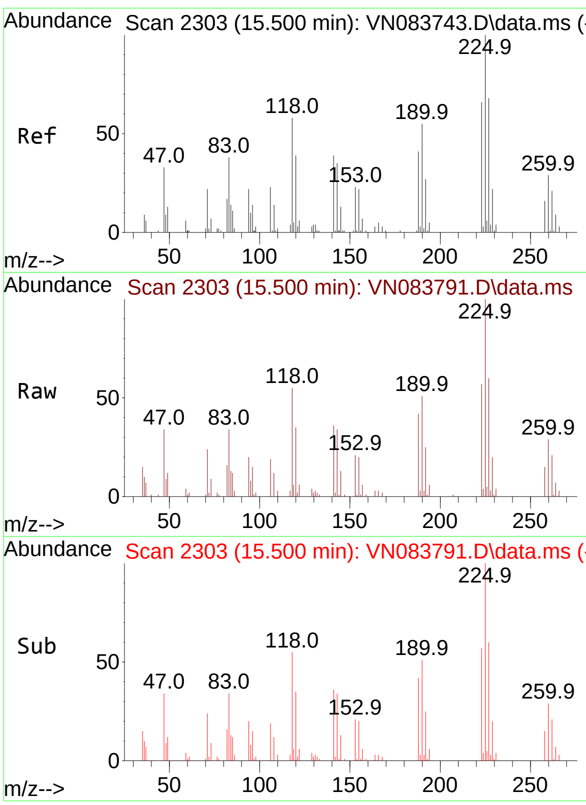


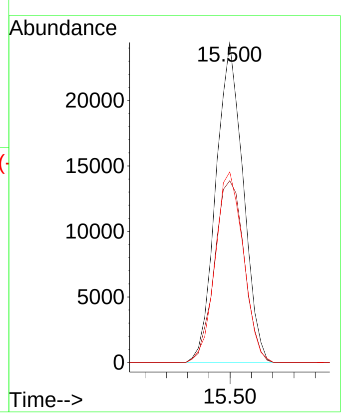
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#94
Hexachlorobutadiene
Concen: 48.150 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

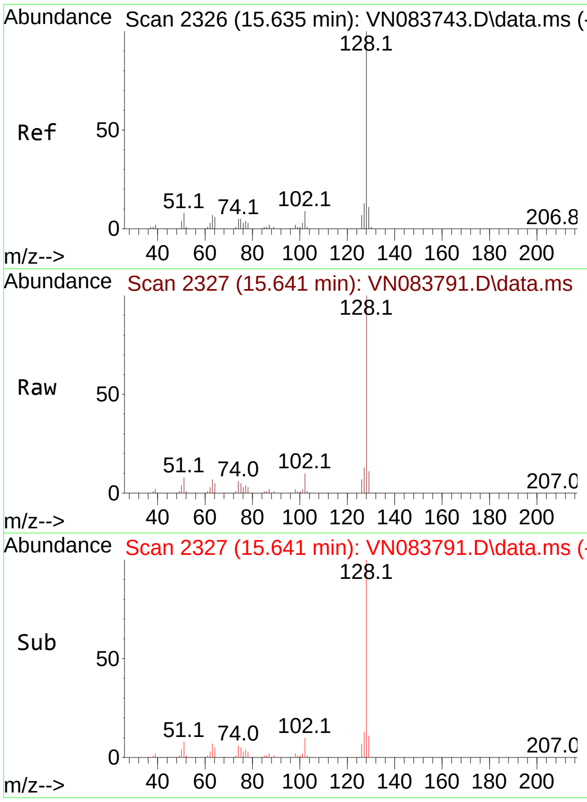
Tgt Ion:225 Resp: 43330

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.9	95.5
227	61.7	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

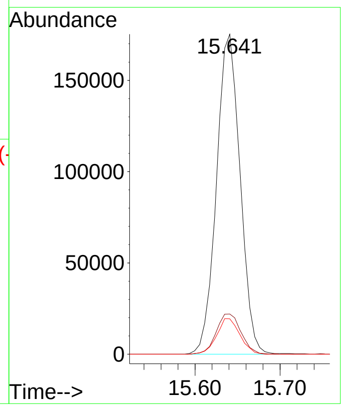
Manual Integrations
APPROVED
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

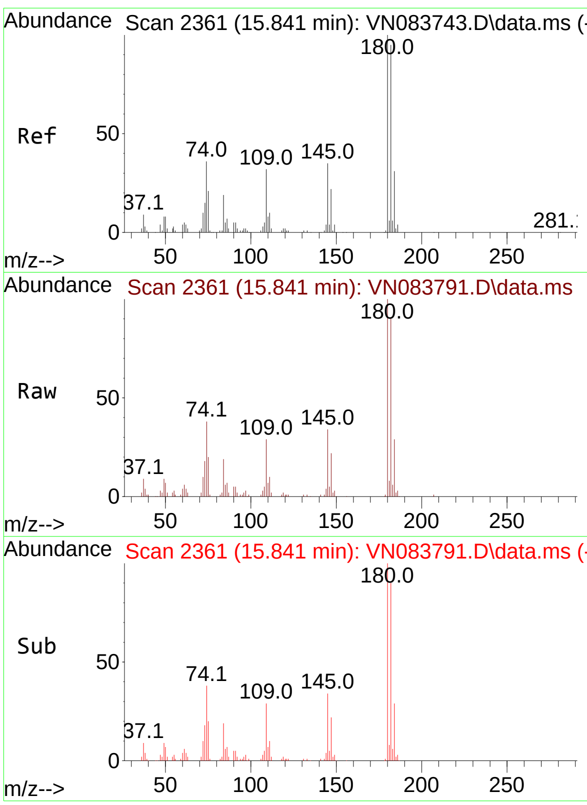


#95
Naphthalene
Concen: 52.555 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:128 Resp: 338814

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.2
129	10.9	8.7	13.1

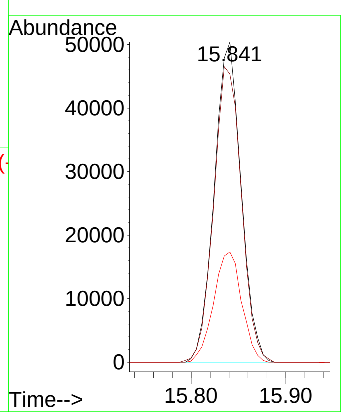




#96
1,2,3-Trichlorobenzene
Concen: 49.108 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083791.D
Acq: 11 Sep 2024 12:59

Tgt Ion:180 Resp: 99451

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.1	141.4
145	36.0	17.8	53.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On : 11 Sep 2024 12:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument : MSVOA_N
LabSampleId : VSTDCCC050

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	88	0.00
2	T	Dichlorodifluoromethane	0.581	0.608	-4.6	90	0.00
3	P	Chloromethane	0.707	0.632	10.6	90	0.00
4	C	Vinyl Chloride	0.636	0.645	-1.4#	87	0.00
5	T	Bromomethane	0.365	0.366	-0.3	90	0.00
6	T	Chloroethane	0.446	0.435	2.5	89	0.00
7	T	Trichlorofluoromethane	1.080	1.102	-2.0	91	0.00
8	T	Diethyl Ether	0.362	0.376	-3.9	91	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.573	0.610	-6.5	92	0.00
10	T	Methyl Iodide	0.728	0.753	-3.4	88	0.00
11	T	Tert butyl alcohol	0.101	0.108	-6.9	94	0.00
12	CM	1,1-Dichloroethene	0.541	0.546	-0.9#	86	0.00
13	T	Acrolein	0.100	0.101	-1.0	86	0.00
14	T	Allyl chloride	0.964	1.011	-4.9	89	0.00
15	T	Acrylonitrile	0.275	0.290	-5.5	93	0.00
16	T	Acetone	0.302	0.326	-7.9	97	0.00
17	T	Carbon Disulfide	1.513	1.434	5.2	83	0.00
18	T	Methyl Acetate	0.735	0.703	4.4	93	0.00
19	T	Methyl tert-butyl Ether	1.957	2.039	-4.2	90	0.00
20	T	Methylene Chloride	0.618	0.628	-1.6	91	0.00
21	T	trans-1,2-Dichloroethene	0.580	0.566	2.4	86	0.00
22	T	Diisopropyl ether	1.984	2.111	-6.4	91	0.00
23	T	Vinyl Acetate	1.453	1.609	-10.7	92	0.00
24	P	1,1-Dichloroethane	1.143	1.149	-0.5	89	0.00
25	T	2-Butanone	0.397	0.423	-6.5	95	0.00
26	T	2,2-Dichloropropane	1.052	1.120	-6.5	91	0.00
27	T	cis-1,2-Dichloroethene	0.688	0.705	-2.5	87	0.00
28	T	Bromochloromethane	0.481	0.479	0.4	81	0.00
29	T	Tetrahydrofuran	0.235	0.257	-9.4	94	0.00
30	C	Chloroform	1.213	1.232	-1.6#	89	0.00
31	T	Cyclohexane	1.090	1.023	6.1	89	0.00
32	T	1,1,1-Trichloroethane	1.116	1.149	-3.0	89	0.00
33	S	1,2-Dichloroethane-d4	0.754	0.740	1.9	77	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.00
35	S	Dibromofluoromethane	0.320	0.308	3.8	77	0.00
36	T	1,1-Dichloropropene	0.482	0.494	-2.5	89	0.00
37	T	Ethyl Acetate	0.437	0.509	-16.5	95	0.00
38	T	Carbon Tetrachloride	0.547	0.579	-5.9	88	0.00
39	T	Methylcyclohexane	0.548	0.600	-9.5	89	0.00
40	TM	Benzene	1.450	1.541	-6.3	91	0.00
41	T	Methacrylonitrile	0.259	0.292	-12.7	94	0.00
42	TM	1,2-Dichloroethane	0.542	0.581	-7.2	91	0.00
43	T	Isopropyl Acetate	0.792	1.121	-41.5#	120	0.00
44	TM	Trichloroethene	0.336	0.352	-4.8	88	0.00
45	C	1,2-Dichloropropane	0.350	0.380	-8.6#	93	0.00
46	T	Dibromomethane	0.245	0.264	-7.8	89	0.00
47	T	Bromodichloromethane	0.531	0.588	-10.7	91	0.00
48	T	Methyl methacrylate	0.376	0.431	-14.6	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On : 11 Sep 2024 12:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.006	0.007	-16.7	98	0.00
50	S	Toluene-d8	1.107	1.130	-2.1	76	0.00
51	T	4-Methyl-2-Pentanone	0.431	0.497	-15.3	95	0.00
52	CM	Toluene	0.887	0.956	-7.8#	90	0.00
53	T	t-1,3-Dichloropropene	0.539	0.591	-9.6	90	0.00
54	T	cis-1,3-Dichloropropene	0.566	0.623	-10.1	90	0.00
55	T	1,1,2-Trichloroethane	0.331	0.352	-6.3	91	0.00
56	T	Ethyl methacrylate	0.509	0.597	-17.3	91	0.00
57	T	1,3-Dichloropropane	0.569	0.618	-8.6	92	0.00
58	T	2-Chloroethyl Vinyl ether	0.184	0.242	-31.5#	119	0.00
59	T	2-Hexanone	0.319	0.373	-16.9	97	0.00
60	T	Dibromochloromethane	0.371	0.416	-12.1	90	0.00
61	T	1,2-Dibromoethane	0.330	0.358	-8.5	92	0.00
62	S	4-Bromofluorobenzene	0.457	0.447	2.2	78	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64	T	Tetrachloroethene	0.333	0.338	-1.5	90	0.00
65	PM	Chlorobenzene	1.111	1.131	-1.8	89	0.00
66	T	1,1,1,2-Tetrachloroethane	0.385	0.405	-5.2	89	0.00
67	C	Ethyl Benzene	1.974	2.126	-7.7#	90	0.00
68	T	m/p-Xylenes	0.733	0.787	-7.4	90	0.00
69	T	o-Xylene	0.710	0.775	-9.2	90	0.00
70	T	Styrene	1.164	1.300	-11.7	90	0.00
71	P	Bromoform	0.260	0.301	-15.8	93	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73	T	Isopropylbenzene	3.868	3.980	-2.9	89	0.00
74	T	N-amyl acetate	1.650	1.801	-9.2	95	0.00
75	P	1,1,2,2-Tetrachloroethane	1.137	1.122	1.3	94	0.00
76	T	1,2,3-Trichloropropane	1.009	0.979	3.0	94	0.00
77	T	Bromobenzene	0.931	0.895	3.9	91	0.00
78	T	n-propylbenzene	4.501	4.733	-5.2	91	0.00
79	T	2-Chlorotoluene	2.870	2.869	0.0	91	0.00
80	T	1,3,5-Trimethylbenzene	3.261	3.387	-3.9	91	0.00
81	T	trans-1,4-Dichloro-2-butene	0.385	0.411	-6.8	91	0.00
82	T	4-Chlorotoluene	2.880	2.920	-1.4	90	0.00
83	T	tert-Butylbenzene	2.853	2.994	-4.9	91	0.00
84	T	1,2,4-Trimethylbenzene	3.276	3.444	-5.1	90	0.00
85	T	sec-Butylbenzene	3.784	4.068	-7.5	91	0.00
86	T	p-Isopropyltoluene	3.172	3.419	-7.8	91	0.00
87	T	1,3-Dichlorobenzene	1.757	1.693	3.6	89	0.00
88	T	1,4-Dichlorobenzene	1.779	1.685	5.3	88	0.00
89	T	n-Butylbenzene	2.848	2.956	-3.8	90	0.00
90	T	Hexachloroethane	0.638	0.655	-2.7	93	0.00
91	T	1,2-Dichlorobenzene	1.696	1.687	0.5	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.227	0.247	-8.8	95	0.00
93	T	1,2,4-Trichlorobenzene	0.910	0.894	1.8	88	0.00
94	T	Hexachlorobutadiene	0.386	0.372	3.6	91	0.00
95	T	Naphthalene	2.769	2.910	-5.1	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On   : 11 Sep 2024 12:59
Operator : JC\MD
Sample   : VSTDCCC050
Misc   : 5.0mL/MSVOA_N/WATER
ALS Vial : 2   Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.870	0.854	1.8	87	0.00

(#) = Out of Range   SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On : 11 Sep 2024 12:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	88	0.00
2	T	Dichlorodifluoromethane	50.000	52.380	-4.8	90	0.00
3	P	Chloromethane	50.000	53.426	-6.9	90	0.00
4	C	Vinyl Chloride	50.000	50.667	-1.3#	87	0.00
5	T	Bromomethane	50.000	50.023	-0.0	90	0.00
6	T	Chloroethane	50.000	48.719	2.6	89	0.00
7	T	Trichlorofluoromethane	50.000	50.999	-2.0	91	0.00
8	T	Diethyl Ether	50.000	51.923	-3.8	91	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	53.219	-6.4	92	0.00
10	T	Methyl Iodide	50.000	51.680	-3.4	88	0.00
11	T	Tert butyl alcohol	250.000	267.118	-6.8	94	0.00
12	CM	1,1-Dichloroethene	50.000	50.448	-0.9#	86	0.00
13	T	Acrolein	250.000	253.706	-1.5	86	0.00
14	T	Allyl chloride	50.000	52.436	-4.9	89	0.00
15	T	Acrylonitrile	250.000	263.967	-5.6	93	0.00
16	T	Acetone	250.000	269.645	-7.9	97	0.00
17	T	Carbon Disulfide	50.000	47.389	5.2	83	0.00
18	T	Methyl Acetate	50.000	56.072	-12.1	93	0.00
19	T	Methyl tert-butyl Ether	50.000	52.089	-4.2	90	0.00
20	T	Methylene Chloride	50.000	50.788	-1.6	91	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.855	2.3	86	0.00
22	T	Diisopropyl ether	50.000	53.200	-6.4	91	0.00
23	T	Vinyl Acetate	250.000	276.919	-10.8	92	0.00
24	P	1,1-Dichloroethane	50.000	50.268	-0.5	89	0.00
25	T	2-Butanone	250.000	265.951	-6.4	95	0.00
26	T	2,2-Dichloropropane	50.000	53.219	-6.4	91	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.241	-2.5	87	0.00
28	T	Bromochloromethane	50.000	49.768	0.5	81	0.00
29	T	Tetrahydrofuran	250.000	273.716	-9.5	94	0.00
30	C	Chloroform	50.000	50.756	-1.5#	89	0.00
31	T	Cyclohexane	50.000	46.943	6.1	89	0.00
32	T	1,1,1-Trichloroethane	50.000	51.509	-3.0	89	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.106	1.8	77	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	85	0.00
35	S	Dibromofluoromethane	50.000	48.184	3.6	77	0.00
36	T	1,1-Dichloropropene	50.000	51.229	-2.5	89	0.00
37	T	Ethyl Acetate	50.000	58.242	-16.5	95	0.00
38	T	Carbon Tetrachloride	50.000	52.977	-6.0	88	0.00
39	T	Methylcyclohexane	50.000	54.700	-9.4	89	0.00
40	TM	Benzene	50.000	53.148	-6.3	91	0.00
41	T	Methacrylonitrile	50.000	56.528	-13.1	94	0.00
42	TM	1,2-Dichloroethane	50.000	53.581	-7.2	91	0.00
43	T	Isopropyl Acetate	50.000	70.750	-41.5#	120	0.00
44	TM	Trichloroethene	50.000	52.393	-4.8	88	0.00
45	C	1,2-Dichloropropane	50.000	54.190	-8.4#	93	0.00
46	T	Dibromomethane	50.000	53.782	-7.6	89	0.00
47	T	Bromodichloromethane	50.000	55.370	-10.7	91	0.00
48	T	Methyl methacrylate	50.000	57.280	-14.6	97	0.00

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On : 11 Sep 2024 12:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1114.069	-11.4	98	0.00
50	S	Toluene-d8	50.000	51.066	-2.1	76	0.00
51	T	4-Methyl-2-Pentanone	250.000	287.840	-15.1	95	0.00
52	CM	Toluene	50.000	53.901	-7.8#	90	0.00
53	T	t-1,3-Dichloropropene	50.000	54.843	-9.7	90	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.039	-10.1	90	0.00
55	T	1,1,2-Trichloroethane	50.000	53.088	-6.2	91	0.00
56	T	Ethyl methacrylate	50.000	58.555	-17.1	91	0.00
57	T	1,3-Dichloropropane	50.000	54.326	-8.7	92	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	329.440	-31.8#	119	0.00
59	T	2-Hexanone	250.000	292.470	-17.0	97	0.00
60	T	Dibromochloromethane	50.000	56.063	-12.1	90	0.00
61	T	1,2-Dibromoethane	50.000	54.204	-8.4	92	0.00
62	S	4-Bromofluorobenzene	50.000	48.909	2.2	78	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64	T	Tetrachloroethene	50.000	50.762	-1.5	90	0.00
65	PM	Chlorobenzene	50.000	50.891	-1.8	89	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.601	-5.2	89	0.00
67	C	Ethyl Benzene	50.000	53.856	-7.7#	90	0.00
68	T	m/p-Xylenes	100.000	107.352	-7.4	90	0.00
69	T	o-Xylene	50.000	54.632	-9.3	90	0.00
70	T	Styrene	50.000	55.807	-11.6	90	0.00
71	P	Bromoform	50.000	58.043	-16.1	93	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73	T	Isopropylbenzene	50.000	51.446	-2.9	89	0.00
74	T	N-amyl acetate	50.000	54.568	-9.1	95	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.340	1.3	94	0.00
76	T	1,2,3-Trichloropropane	50.000	48.510	3.0	94	0.00
77	T	Bromobenzene	50.000	48.069	3.9	91	0.00
78	T	n-propylbenzene	50.000	52.577	-5.2	91	0.00
79	T	2-Chlorotoluene	50.000	49.973	0.1	91	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.928	-3.9	91	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	53.334	-6.7	91	0.00
82	T	4-Chlorotoluene	50.000	50.677	-1.4	90	0.00
83	T	tert-Butylbenzene	50.000	52.456	-4.9	91	0.00
84	T	1,2,4-Trimethylbenzene	50.000	52.561	-5.1	90	0.00
85	T	sec-Butylbenzene	50.000	53.744	-7.5	91	0.00
86	T	p-Isopropyltoluene	50.000	53.893	-7.8	91	0.00
87	T	1,3-Dichlorobenzene	50.000	48.158	3.7	89	0.00
88	T	1,4-Dichlorobenzene	50.000	47.361	5.3	88	0.00
89	T	n-Butylbenzene	50.000	51.891	-3.8	90	0.00
90	T	Hexachloroethane	50.000	51.321	-2.6	93	0.00
91	T	1,2-Dichlorobenzene	50.000	49.724	0.6	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	54.588	-9.2	95	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.134	1.7	88	0.00
94	T	Hexachlorobutadiene	50.000	48.150	3.7	91	0.00
95	T	Naphthalene	50.000	52.555	-5.1	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083791.D
Acq On : 11 Sep 2024 12:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Sep 12 02:06:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96	T	1,2,3-Trichlorobenzene	50.000	49.108	1.8	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

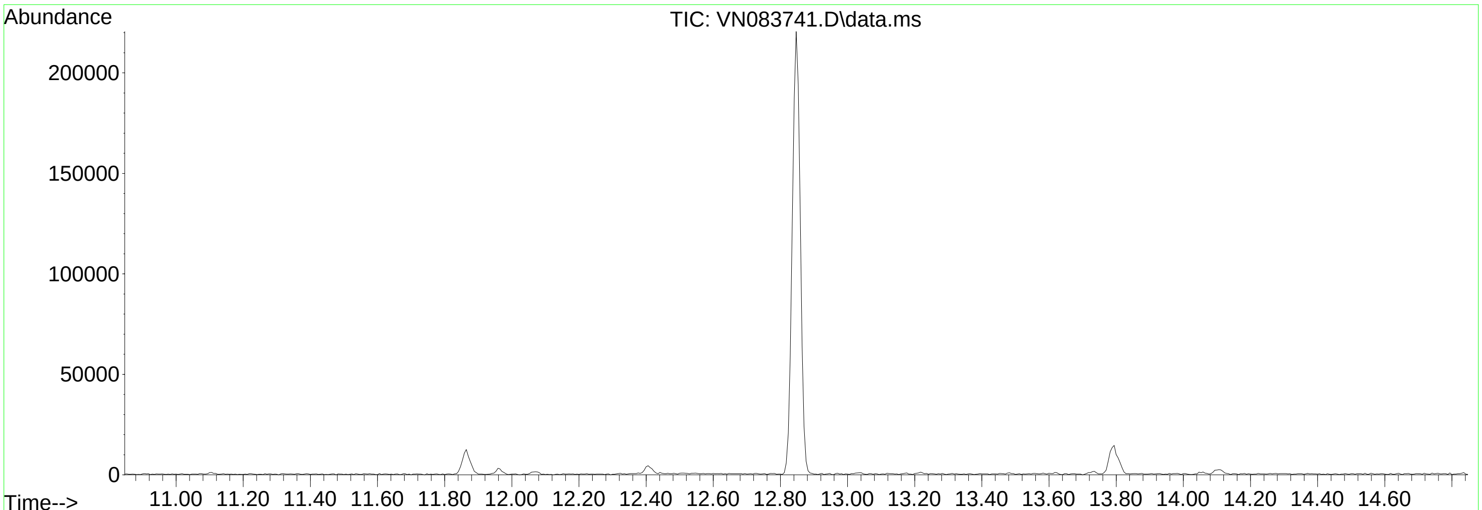
QC SAMPLE DATA

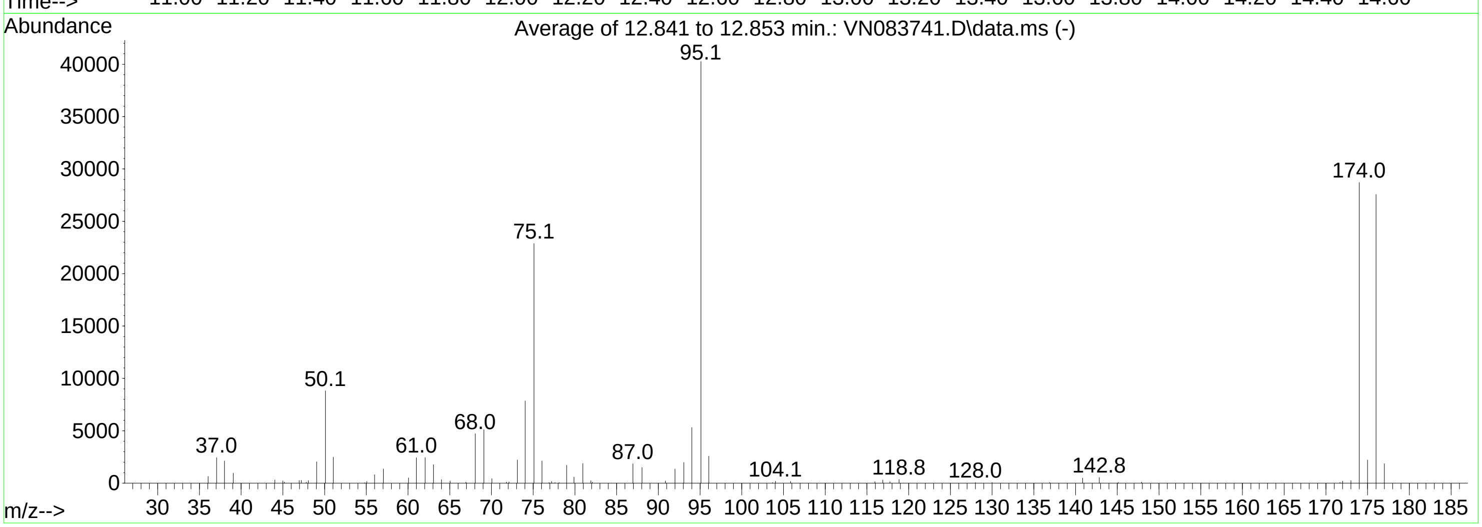
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083741.D
Acq On : 10 Sep 2024 08:02
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Title : SW846 8260
Last Update : Wed Sep 11 15:18:56 2024





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

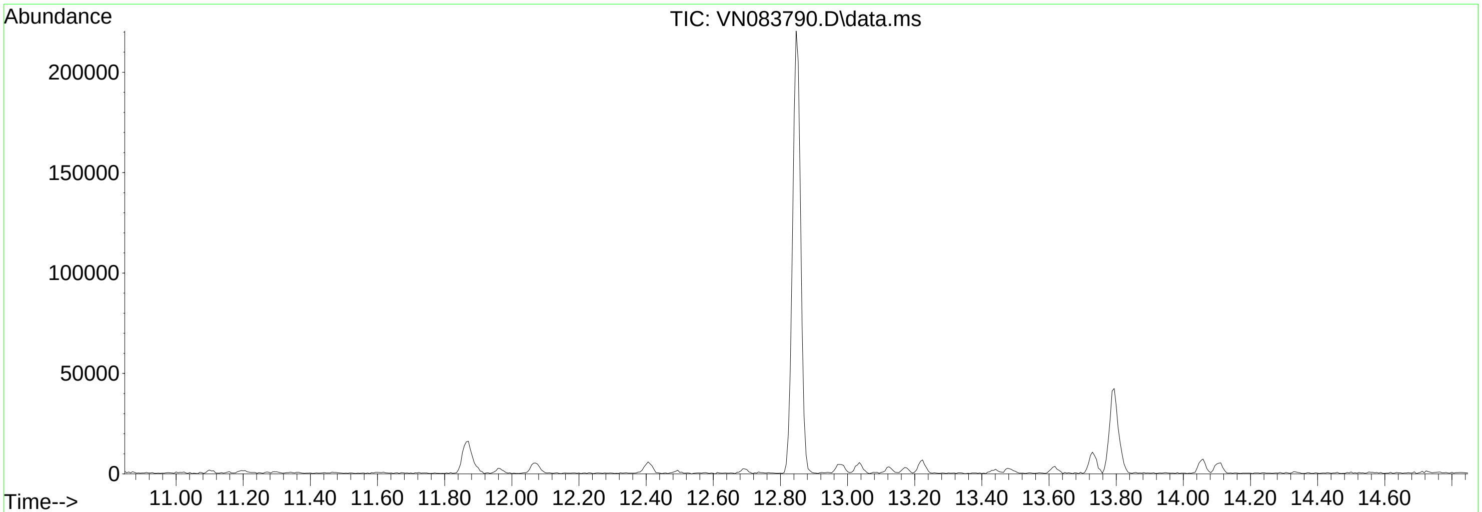
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	8811	PASS
75	95	30	60	56.8	22877	PASS
95	95	100	100	100.0	40272	PASS
96	95	5	9	6.4	2577	PASS
173	174	0.00	2	0.9	246	PASS
174	95	50	100	71.3	28701	PASS
175	174	5	9	7.7	2220	PASS
176	174	95	101	96.1	27579	PASS
177	176	5	9	6.8	1862	PASS

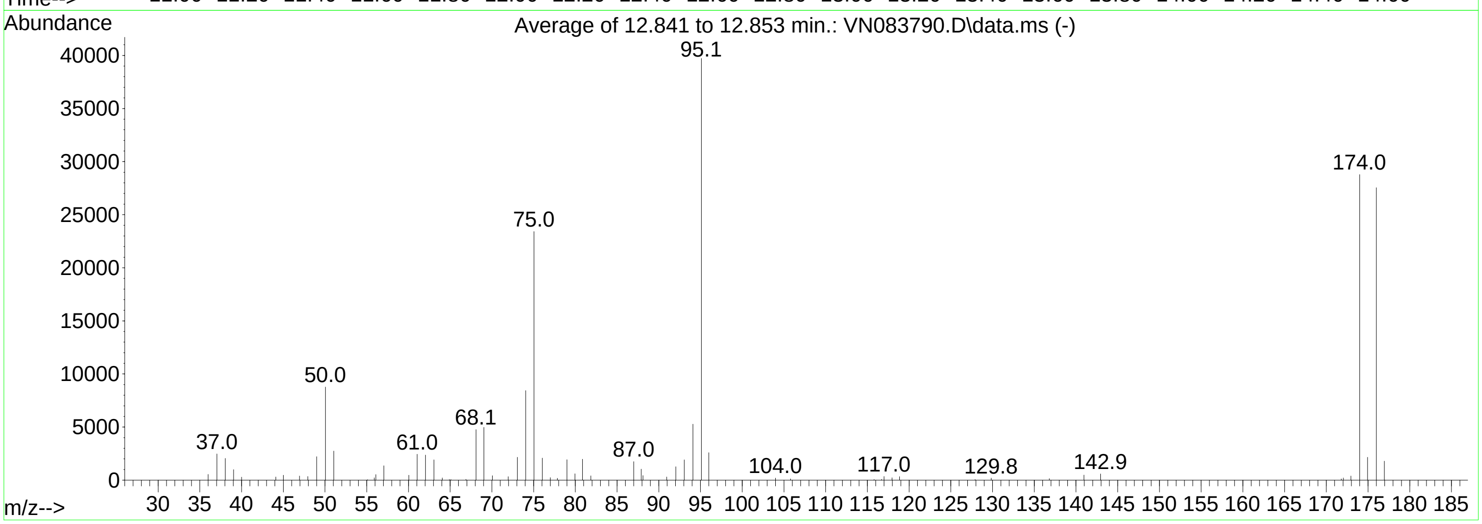
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083790.D
Acq On    : 11 Sep 2024  12:25
Operator  : JC\MD
Sample    : BFB
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 1   Sample Multiplier: 1

Integration File: RTEINT.P

Method    : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Title     : SW846 8260
Last Update  : Wed Sep 11 15:18:56 2024
```

Instrument :
MSVOA_N
ClientSampleId :
BFB





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	8779	PASS
75	95	30	60	58.9	23416	PASS
95	95	100	100	100.0	39728	PASS
96	95	5	9	6.5	2589	PASS
173	174	0.00	2	1.4	391	PASS
174	95	50	100	72.5	28787	PASS
175	174	5	9	7.5	2160	PASS
176	174	95	101	95.7	27557	PASS
177	176	5	9	6.5	1794	PASS

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBL01	SDG No.:	P3845
Lab Sample ID:	VN0910WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083752.D	1		09/10/24 14:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
141-78-6	Ethyl Acetate	0.38	U	0.38	1.00	ug/L
108-21-4	Isopropyl Acetate	0.29	U	0.29	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
109-99-9	Tetrahydrofuran	1.20	U	1.20	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-65-0	Tert butyl alcohol	5.60	U	5.60	25.0	ug/L
60-29-7	Diethyl Ether	0.20	U	0.20	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
107-02-8	Acrolein	6.70	U	6.70	25.0	ug/L
107-13-1	Acrylonitrile	0.90	U	0.90	5.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
108-05-4	Vinyl Acetate	0.71	U	0.71	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
594-20-7	2,2-Dichloropropane	0.31	U	0.31	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBL01	SDG No.:	P3845
Lab Sample ID:	VN0910WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083752.D	1		09/10/24 14:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
563-58-6	1,1-Dichloropropene	0.18	U	0.18	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
74-95-3	Dibromomethane	0.23	U	0.23	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
142-28-9	1,3-Dichloropropane	0.17	U	0.17	1.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	1.80	U	1.80	5.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	1.00	ug/L

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBL01	SDG No.:	P3845
Lab Sample ID:	VN0910WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083752.D	1		09/10/24 14:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-86-1	Bromobenzene	0.26	U	0.26	1.00	ug/L
103-65-1	n-propylbenzene	0.14	U	0.14	1.00	ug/L
95-49-8	2-Chlorotoluene	0.16	U	0.16	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.18	U	0.18	1.00	ug/L
106-43-4	4-Chlorotoluene	0.18	U	0.18	1.00	ug/L
98-06-6	tert-Butylbenzene	0.17	U	0.17	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.18	U	0.18	1.00	ug/L
135-98-8	sec-Butylbenzene	0.17	U	0.17	1.00	ug/L
99-87-6	p-Isopropyltoluene	0.15	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
104-51-8	n-Butylbenzene	0.22	U	0.22	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-68-3	Hexachlorobutadiene	0.31	U	0.31	1.00	ug/L
91-20-3	Naphthalene	0.59	U	0.59	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
628-63-7	N-amyl acetate	0.23	U	0.23	1.00	ug/L
74-88-4	Methyl Iodide	1.20	U	1.20	5.00	ug/L
107-05-1	Allyl chloride	0.24	U	0.24	1.00	ug/L
126-98-7	Methacrylonitrile	0.31	U	0.31	1.00	ug/L
97-63-2	Ethyl methacrylate	0.16	U	0.16	1.00	ug/L
108-20-3	Diisopropyl ether	0.16	U	0.16	1.00	ug/L
123-91-1	1,4-Dioxane	6.50	U	6.50	100	ug/L
80-62-6	Methyl methacrylate	0.32	U	0.32	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.6		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	48.1		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.5		77 - 121	107%	SPK: 50
INTERNAL STANDARDS						

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Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Waste Water PT		Date Received:		
Client Sample ID:	VN0910WBL01		SDG No.:	P3845	
Lab Sample ID:	VN0910WBL01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5 Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624 ID :	0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083752.D	1		09/10/24 14:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	124000	8.224			
540-36-3	1,4-Difluorobenzene	258000	9.1			
3114-55-4	Chlorobenzene-d5	273000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.788			
67-72-1	Hexachloroethane					

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083752.D
Acq On : 10 Sep 2024 14:34
Operator : JC\MD
Sample : VN0910WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBL01

Quant Time: Sep 11 03:28:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.224	168	124023	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	258209	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	273442	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126892	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.577	65	98276	52.551 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.100%		
35) Dibromofluoromethane	8.165	113	79380	48.021 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.040%		
50) Toluene-d8	10.565	98	275129	48.145 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.300%		
62) 4-Bromofluorobenzene	12.847	95	126091	53.481 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.960%		

Target Compounds Qvalue

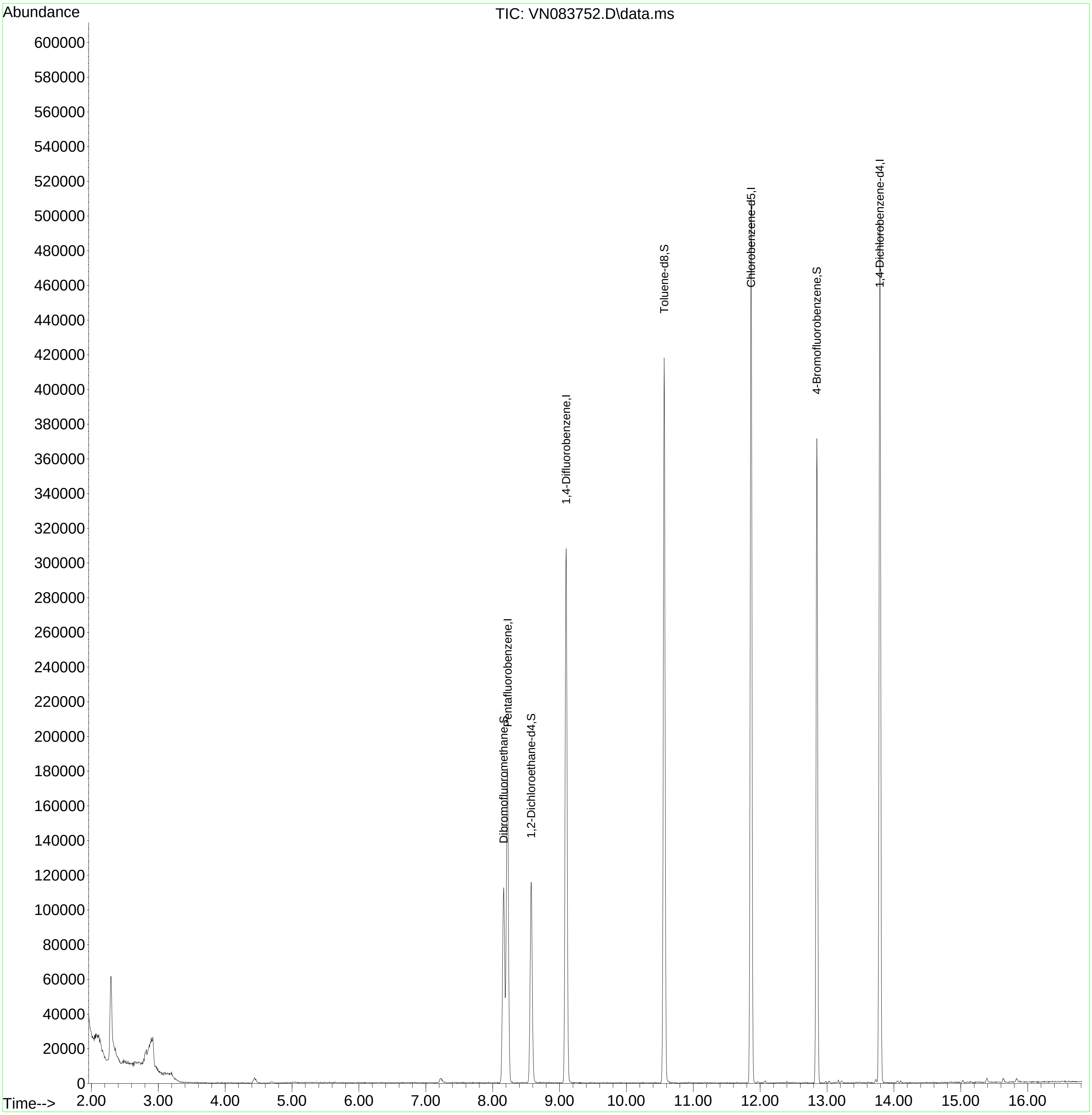
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

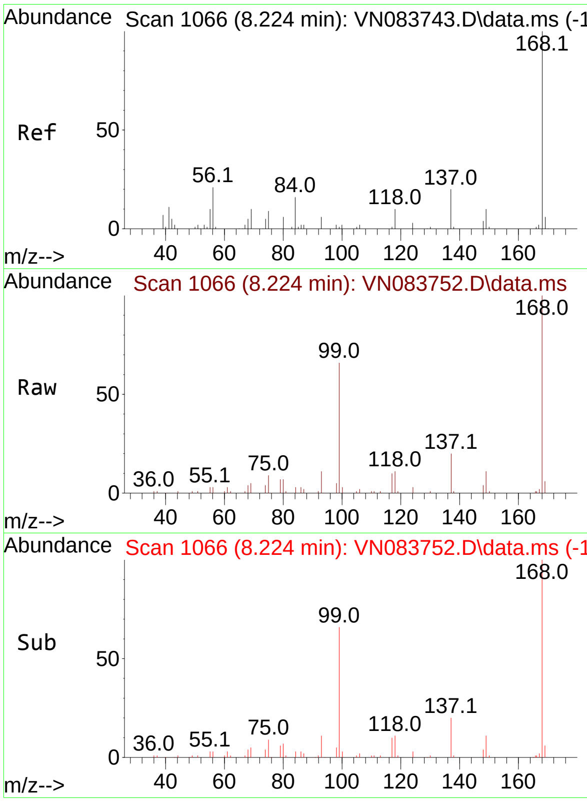
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083752.D
Acq On : 10 Sep 2024 14:34
Operator : JC\MD
Sample : VN0910WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBL01

Quant Time: Sep 11 03:28:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration



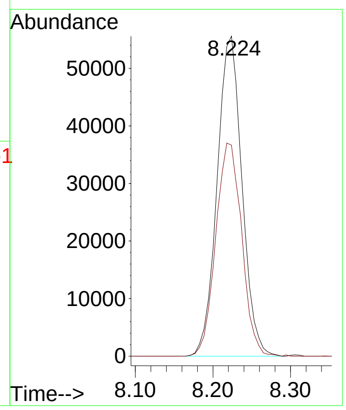
Instrument : MSVOA_N
ClientSampleId : VN0910WBL01

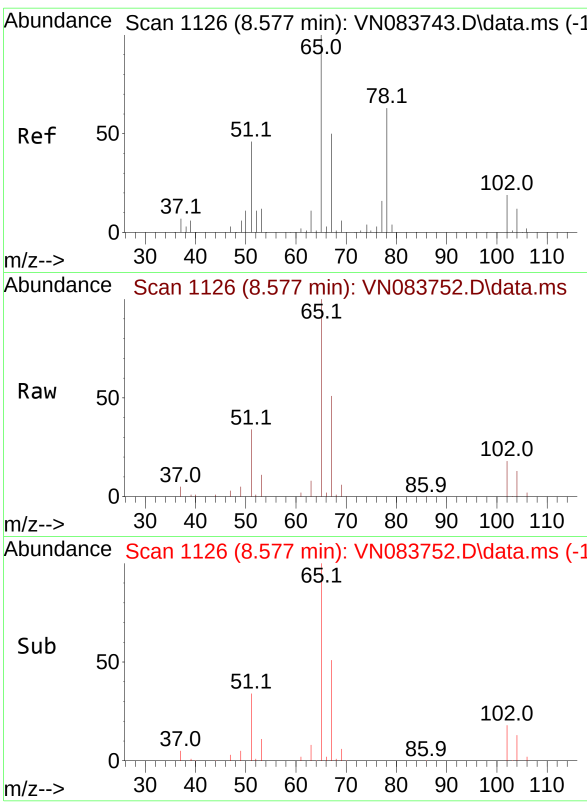


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083752.D
Acq: 10 Sep 2024 14:34

Tgt Ion:168 Resp: 124023

Ion	Ratio	Lower	Upper
168	100		
99	65.9	54.2	81.2

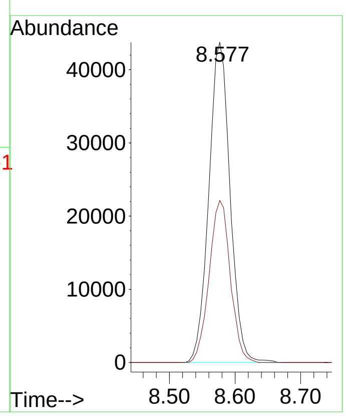




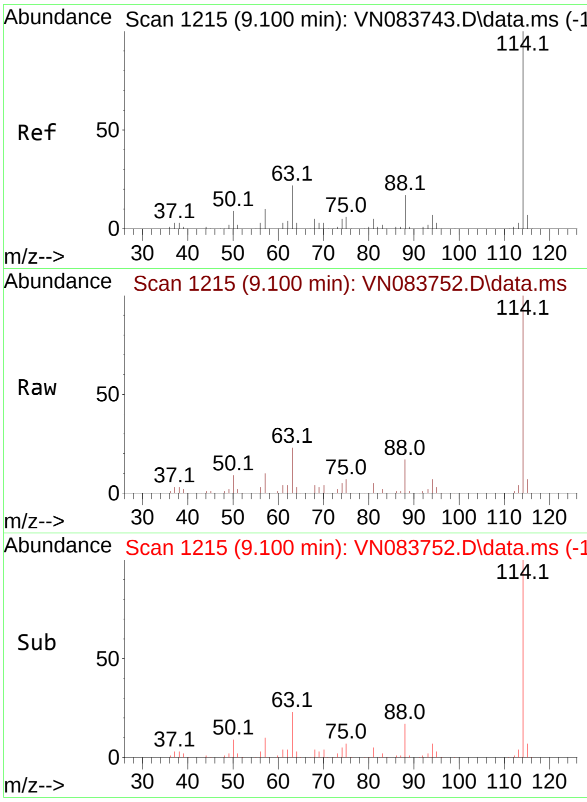
#33
1,2-Dichloroethane-d4
Concen: 52.551 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN083752.D
Acq: 10 Sep 2024 14:34

Tgt Ion: 65 Resp: 98276

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	100.8

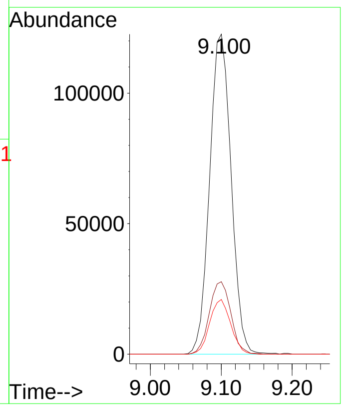


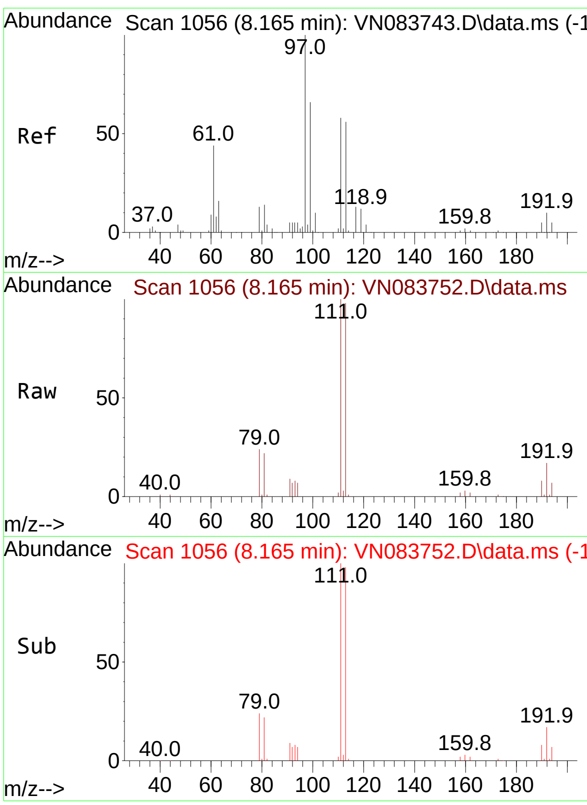
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBL01




```
#34
1,4-Difluorobenzene
Concen:   50.000 ug/l
RT:   9.100 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083752.D
Acq: 10 Sep 2024  14:34

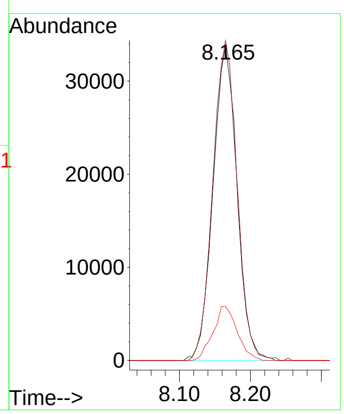
Tgt Ion:114 Resp:  258209
Ion  Ratio  Lower  Upper
114  100
 63   22.7    0.0   43.4
 88   17.1    0.0   32.6
```



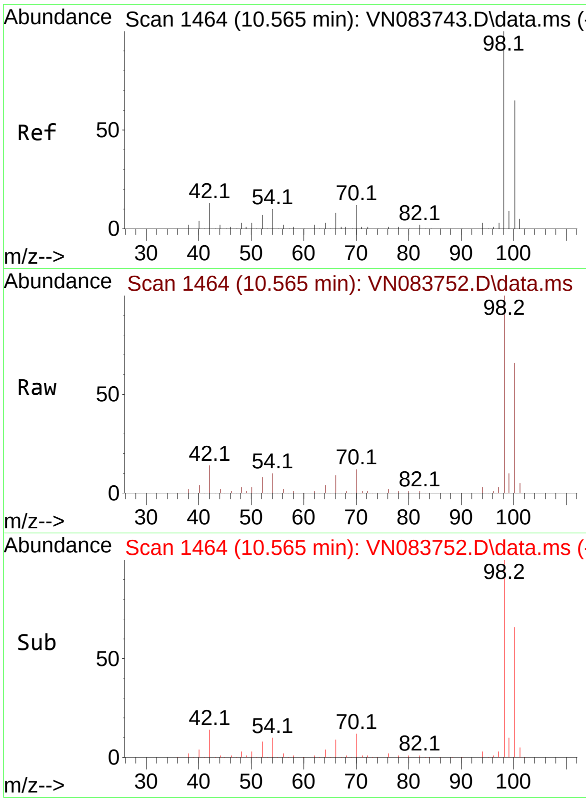



```
#35
Dibromofluoromethane
Concen:   48.021 ug/l
RT:   8.165 min  Scan# 1056
Delta R.T.  0.000 min
Lab File:   VN083752.D
Acq: 10 Sep 2024  14:34

Tgt Ion:113 Resp:   79380
Ion  Ratio  Lower  Upper
113  100
111  102.7   82.6  124.0
192   17.3   14.3   21.5
```



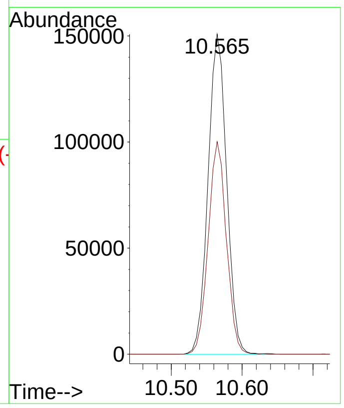
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBL01

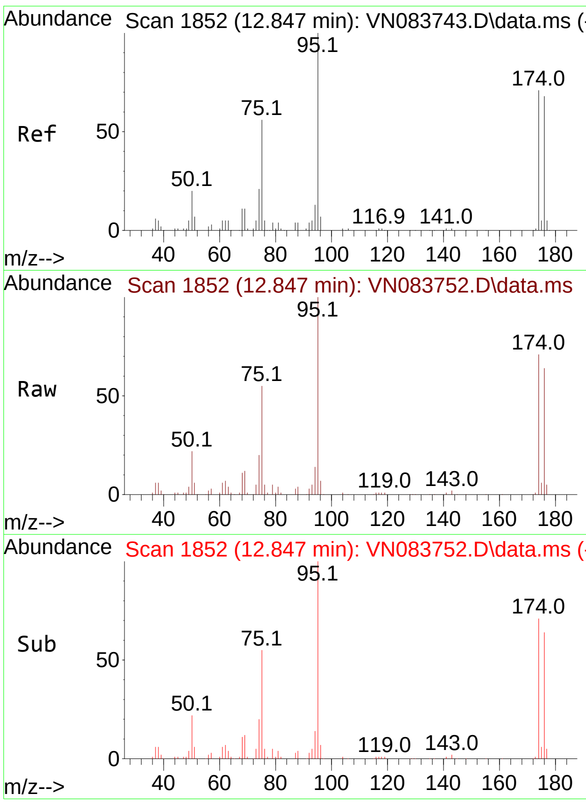


#50
Toluene-d8
Concen: 48.145 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083752.D
Acq: 10 Sep 2024 14:34

Tgt Ion: 98 Resp: 275129

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.0	78.0

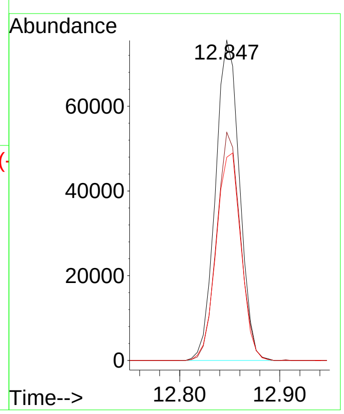




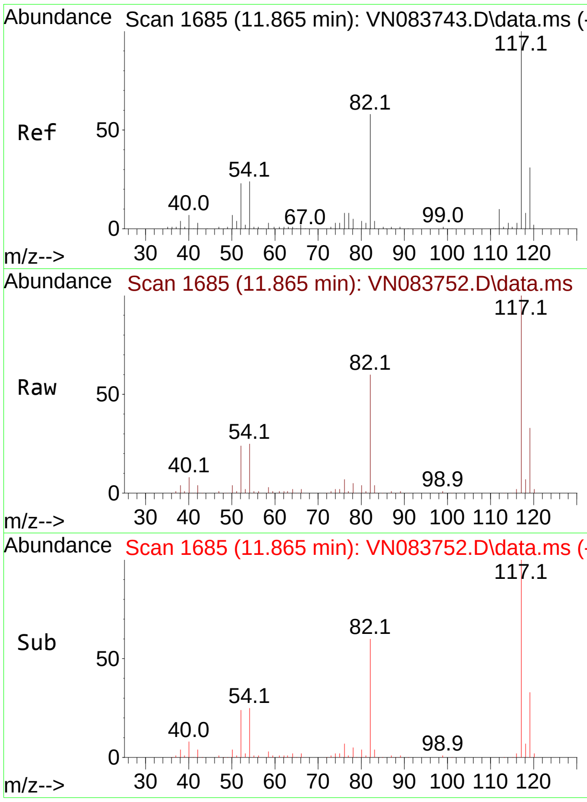
#62
4-Bromofluorobenzene
Concen: 53.481 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083752.D
Acq: 10 Sep 2024 14:34

Tgt Ion: 95 Resp: 126091

Ion	Ratio	Lower	Upper
95	100		
174	70.2	0.0	139.8
176	67.0	0.0	131.4

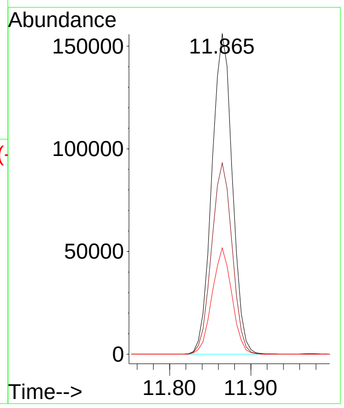


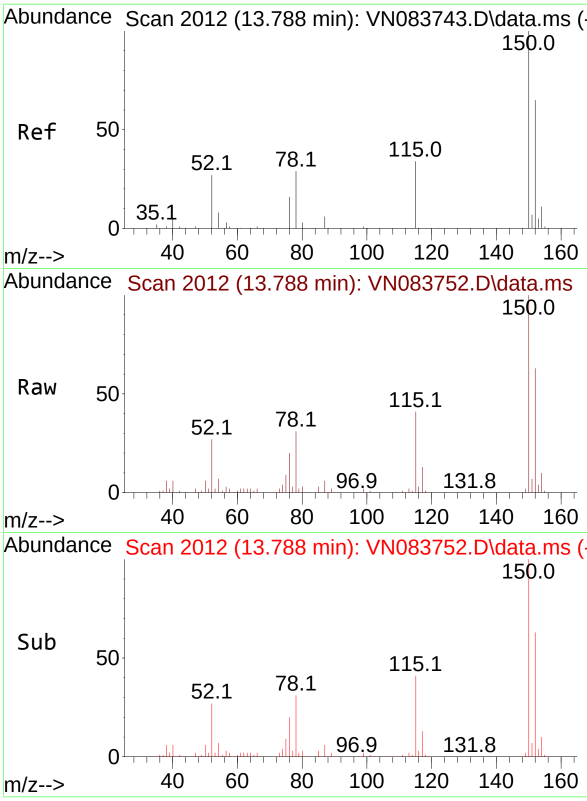
Instrument :
MSVOA_N
ClientSampleId :
VN0910WBL01




```
#63
Chlorobenzene-d5
Concen:   50.000 ug/l
RT:  11.865 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083752.D
Acq: 10 Sep 2024  14:34

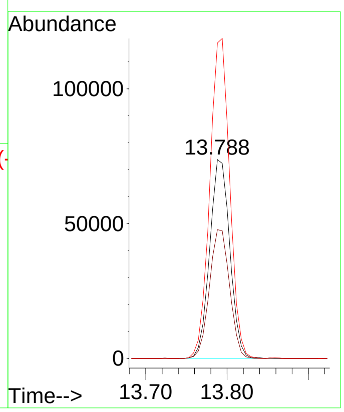
Tgt Ion:117 Resp:  273442
Ion  Ratio  Lower  Upper
117  100
 82   59.7   47.4   71.0
119   33.2   26.3   39.5
```






```
#72
1,4-Dichlorobenzene-d4
Concen:   50.000 ug/l
RT:  13.788 min  Scan# 2012
Delta R.T.  0.000 min
Lab File:   VN083752.D
Acq: 10 Sep 2024  14:34

Tgt Ion:152 Resp:  126892
Ion  Ratio  Lower  Upper
152  100
115   65.1   32.2   96.6
150  159.0    0.0  348.6
```



Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Waste Water PT		Date Received:		
Client Sample ID:	VN0911WBL01		SDG No.:	P3845	
Lab Sample ID:	VN0911WBL01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083793.D	1		09/11/24 13:57	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
141-78-6	Ethyl Acetate	0.38	U	0.38	1.00	ug/L
108-21-4	Isopropyl Acetate	0.29	U	0.29	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
109-99-9	Tetrahydrofuran	1.20	U	1.20	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-65-0	Tert butyl alcohol	5.60	U	5.60	25.0	ug/L
60-29-7	Diethyl Ether	0.20	U	0.20	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
107-02-8	Acrolein	6.70	U	6.70	25.0	ug/L
107-13-1	Acrylonitrile	0.90	U	0.90	5.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
108-05-4	Vinyl Acetate	0.71	U	0.71	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
594-20-7	2,2-Dichloropropane	0.31	U	0.31	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L

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Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Waste Water PT			Date Received:	
Client Sample ID:	VN0911WBL01			SDG No.:	P3845
Lab Sample ID:	VN0911WBL01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083793.D	1		09/11/24 13:57	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
563-58-6	1,1-Dichloropropene	0.18	U	0.18	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
74-95-3	Dibromomethane	0.23	U	0.23	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
142-28-9	1,3-Dichloropropane	0.17	U	0.17	1.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	1.80	U	1.80	5.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.00	ug/L
67-72-1	Hexachloroethane	0.29	U	0.29	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0911WBL01	SDG No.:	P3845
Lab Sample ID:	VN0911WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083793.D	1		09/11/24 13:57	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	1.00	ug/L
108-86-1	Bromobenzene	0.26	U	0.26	1.00	ug/L
103-65-1	n-propylbenzene	0.14	U	0.14	1.00	ug/L
95-49-8	2-Chlorotoluene	0.16	U	0.16	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.18	U	0.18	1.00	ug/L
106-43-4	4-Chlorotoluene	0.18	U	0.18	1.00	ug/L
98-06-6	tert-Butylbenzene	0.17	U	0.17	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.18	U	0.18	1.00	ug/L
135-98-8	sec-Butylbenzene	0.17	U	0.17	1.00	ug/L
99-87-6	p-Isopropyltoluene	0.15	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
104-51-8	n-Butylbenzene	0.22	U	0.22	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-68-3	Hexachlorobutadiene	0.31	U	0.31	1.00	ug/L
91-20-3	Naphthalene	0.59	U	0.59	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
628-63-7	N-amyl acetate	0.23	U	0.23	1.00	ug/L
74-88-4	Methyl Iodide	1.20	U	1.20	5.00	ug/L
107-05-1	Allyl chloride	0.24	U	0.24	1.00	ug/L
126-98-7	Methacrylonitrile	0.31	U	0.31	1.00	ug/L
97-63-2	Ethyl methacrylate	0.16	U	0.16	1.00	ug/L
108-20-3	Diisopropyl ether	0.16	U	0.16	1.00	ug/L
123-91-1	1,4-Dioxane	6.50	U	6.50	100	ug/L
80-62-6	Methyl methacrylate	0.32	U	0.32	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.7		74 - 125	111%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	51.2		86 - 113	102%	SPK: 50

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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0911WBL01	SDG No.:	P3845
Lab Sample ID:	VN0911WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083793.D	1		09/11/24 13:57	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	57.1		77 - 121	114%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	117000	8.224			
540-36-3	1,4-Difluorobenzene	246000	9.1			
3114-55-4	Chlorobenzene-d5	271000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.788			

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

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

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083793.D
Acq On    : 11 Sep 2024  13:57
Operator  : JC\MD
Sample    : VN0911WBL01
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Sep 12 02:07:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title  : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBL01

```
       Compound                    R.T. QIon  Response  Conc Units Dev(Min)
 -----------------------------------------------------------------------------
 Internal Standards
   1) Pentafluorobenzene          8.224  168   117065    50.000 ug/l     0.00
  34) 1,4-Difluorobenzene         9.100  114   246226    50.000 ug/l     0.00
  63) Chlorobenzene-d5           11.865  117   271430    50.000 ug/l     0.00
  72) 1,4-Dichlorobenzene-d4     13.788  152   129037    50.000 ug/l     0.00

 System Monitoring Compounds
  33) 1,2-Dichloroethane-d4       8.577   65    98351    55.717 ug/l    0.00
   Spiked Amount     50.000   Range  74 - 125    Recovery    =  111.440%
  35) Dibromofluoromethane        8.165  113    77865    49.397 ug/l    0.00
   Spiked Amount     50.000   Range  75 - 124    Recovery    =   98.800%
  50) Toluene-d8                 10.565   98   278740    51.151 ug/l    0.00
   Spiked Amount     50.000   Range  86 - 113    Recovery    =  102.300%
  62) 4-Bromofluorobenzene       12.847   95   128273    57.054 ug/l    0.00
   Spiked Amount     50.000   Range  77 - 121    Recovery    =  114.100%

 Target Compounds                                                   Qvalue
 -----------------------------------------------------------------------------

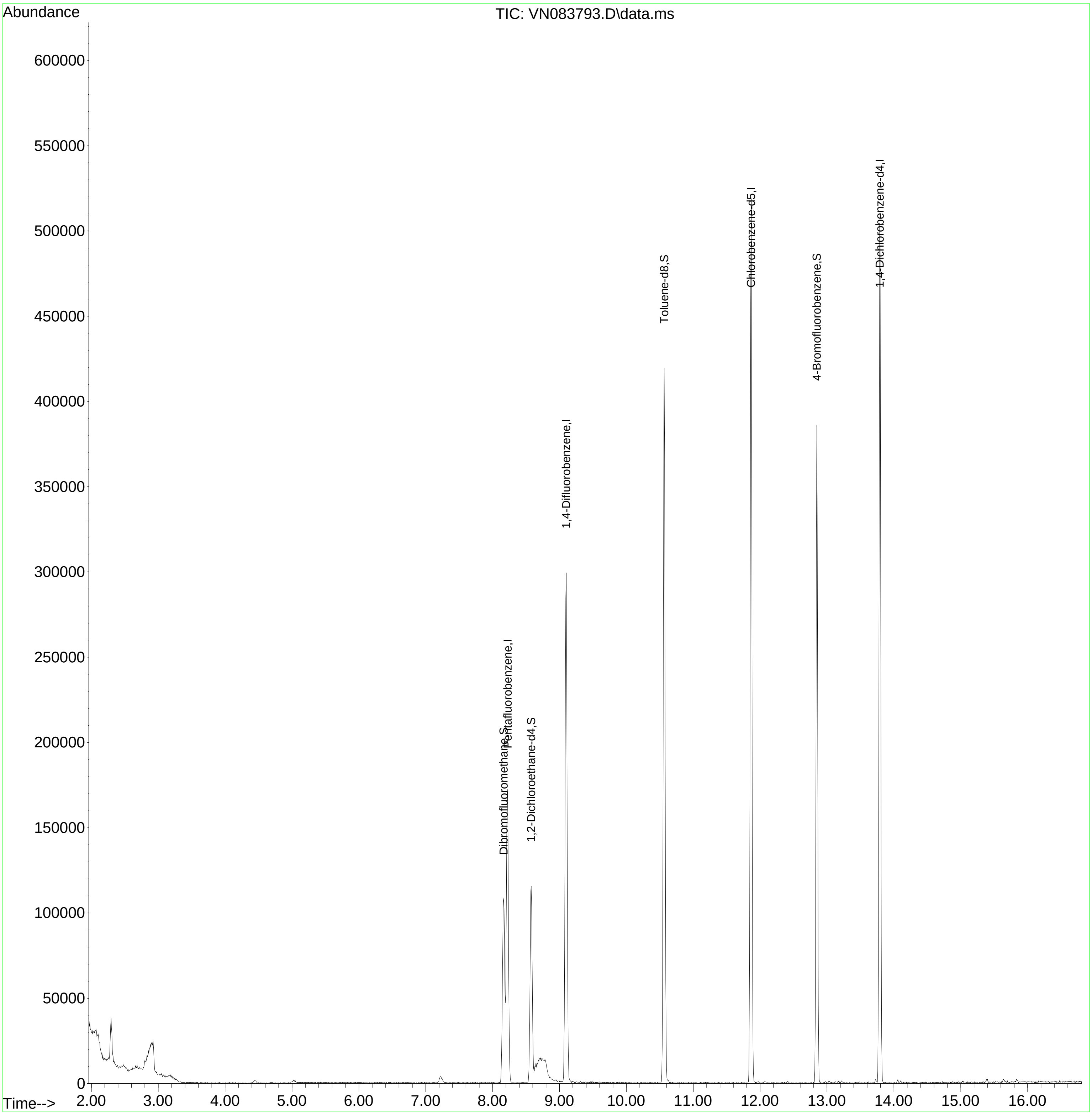
 (#) = qualifier out of range (m) = manual integration (+) = signals summed
```

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

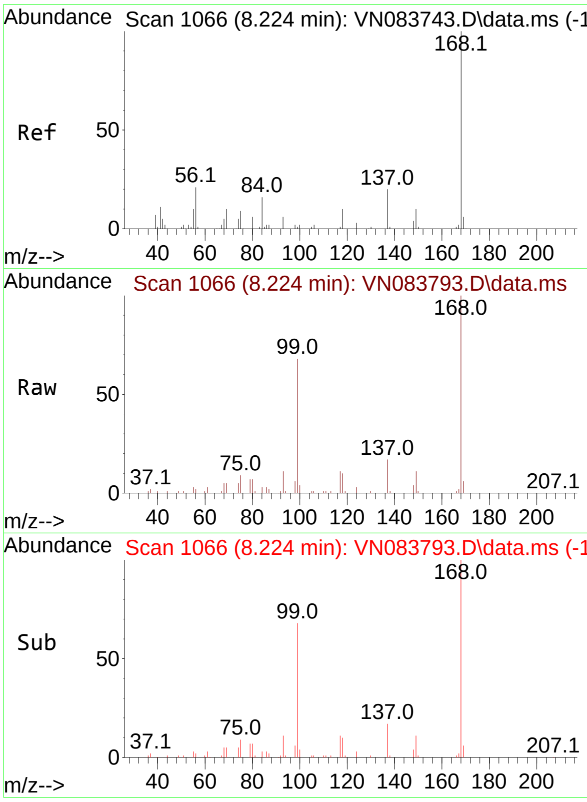
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083793.D
Acq On : 11 Sep 2024 13:57
Operator : JC\MD
Sample : VN0911WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBL01

Quant Time: Sep 12 02:07:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration



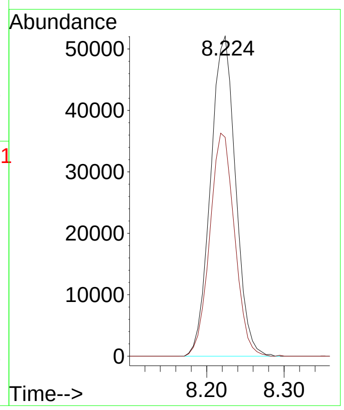
Instrument : MSVOA_N
ClientSampleId : VN0911WBL01

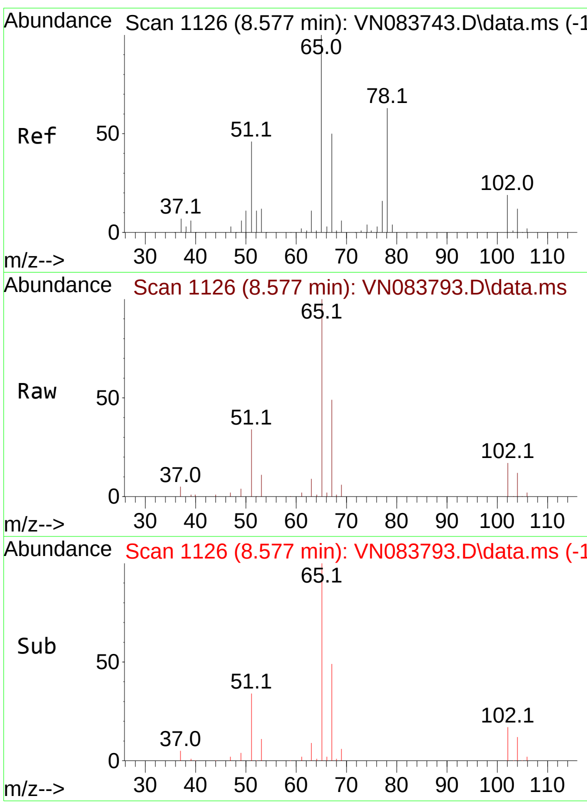


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083793.D
Acq: 11 Sep 2024 13:57

Tgt Ion:168 Resp: 117065

Ion	Ratio	Lower	Upper
168	100		
99	68.4	54.2	81.2

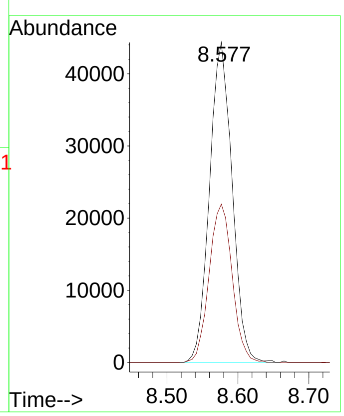




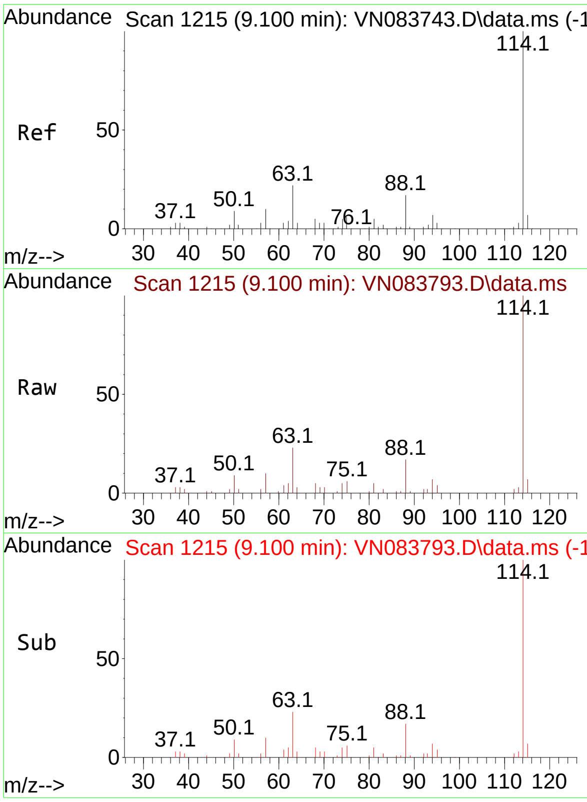
#33
1,2-Dichloroethane-d4
Concen: 55.717 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN083793.D
Acq: 11 Sep 2024 13:57

Tgt Ion: 65 Resp: 98351

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	100.8

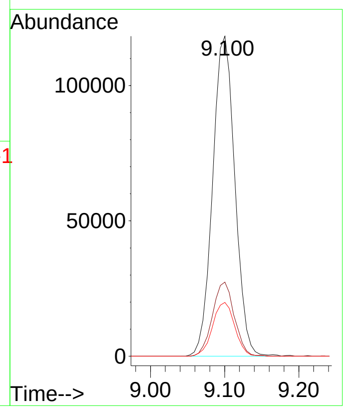


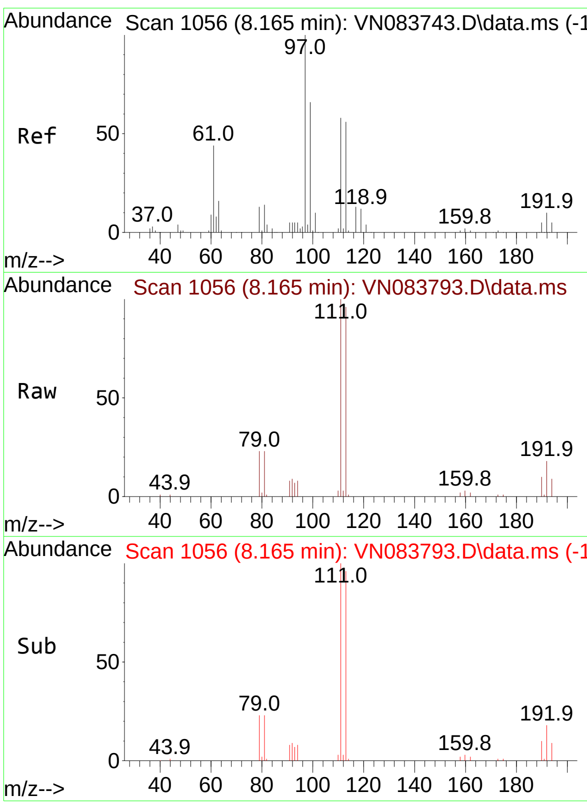
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBL01




```
#34
1,4-Difluorobenzene
Concen:   50.000 ug/l
RT:   9.100 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083793.D
Acq: 11 Sep 2024  13:57

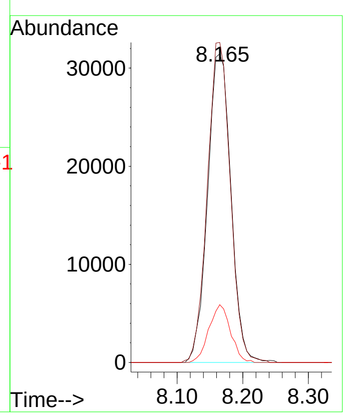
Tgt Ion:114 Resp:  246226
Ion  Ratio  Lower  Upper
114  100
 63   23.1    0.0   43.4
 88   16.8    0.0   32.6
```



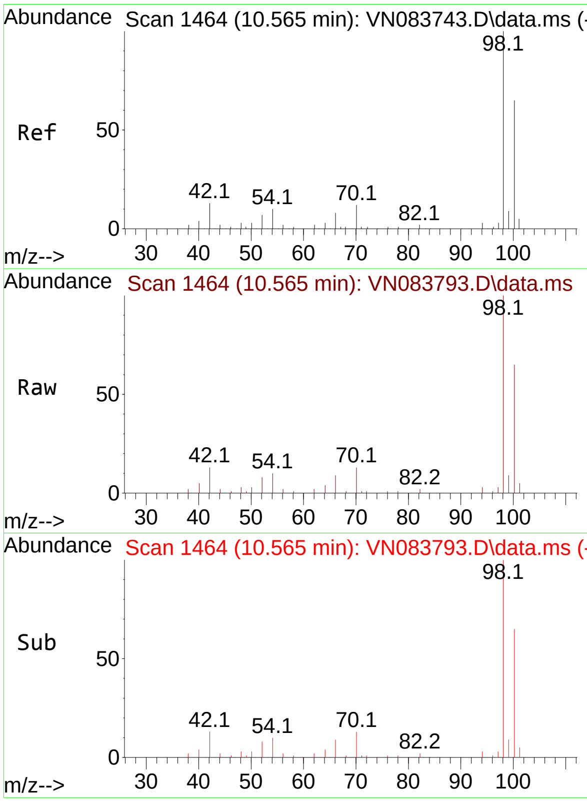



```
#35
Dibromofluoromethane
Concen:   49.397 ug/l
RT:   8.165 min  Scan# 1056
Delta R.T.  0.000 min
Lab File:   VN083793.D
Acq: 11 Sep 2024  13:57

Tgt Ion:113 Resp:   77865
Ion  Ratio  Lower  Upper
113  100
111  102.0   82.6  124.0
192   17.3   14.3   21.5
```



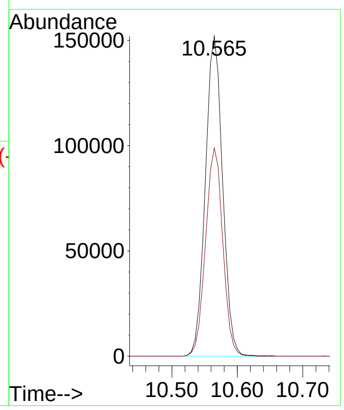
Instrument :
MSVOA_N
ClientSampleId :
VN0911WBL01

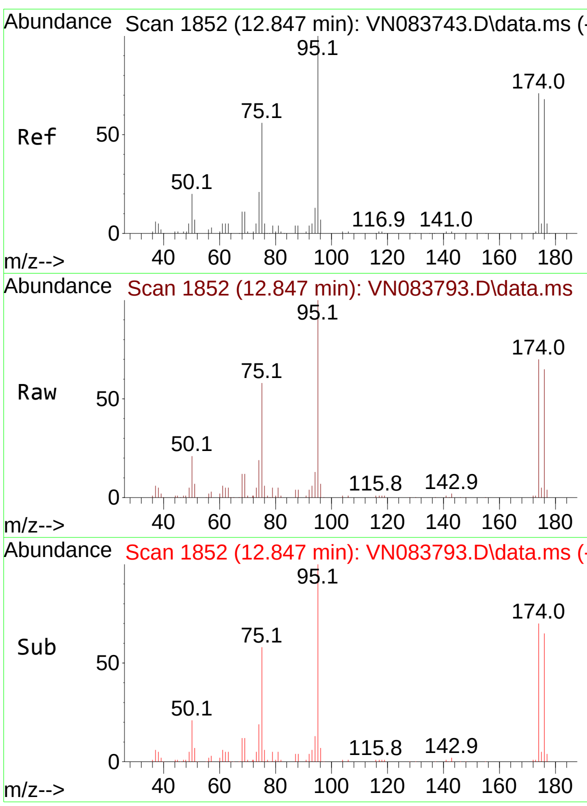


#50
Toluene-d8
Concen: 51.151 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083793.D
Acq: 11 Sep 2024 13:57

Tgt Ion: 98 Resp: 278740

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.0	78.0

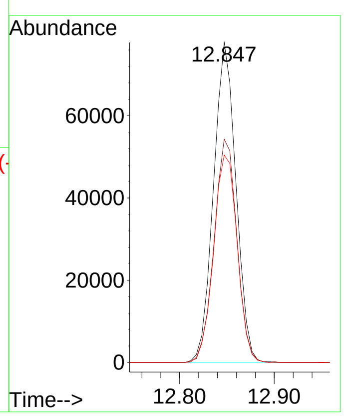


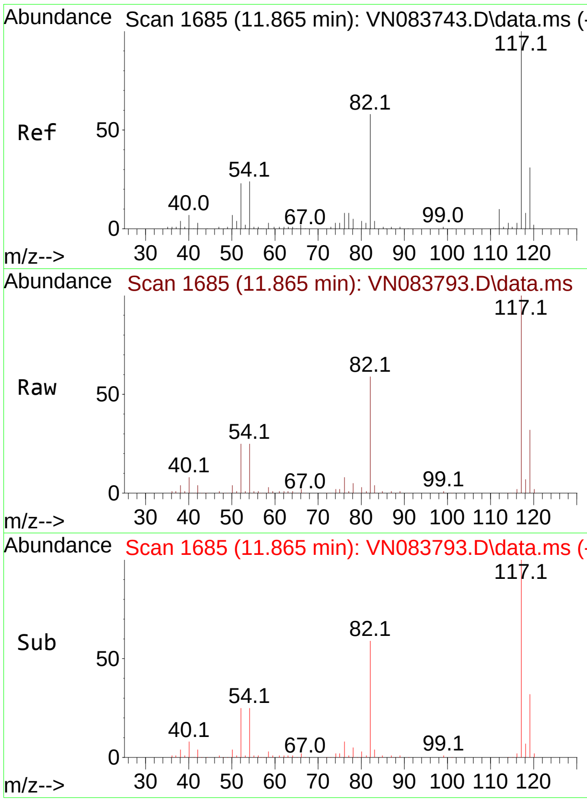


#62
4-Bromofluorobenzene
Concen: 57.054 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083793.D
Acq: 11 Sep 2024 13:57

Tgt Ion: 95 Resp: 128273

Ion	Ratio	Lower	Upper
95	100		
174	71.1	0.0	139.8
176	68.3	0.0	131.4



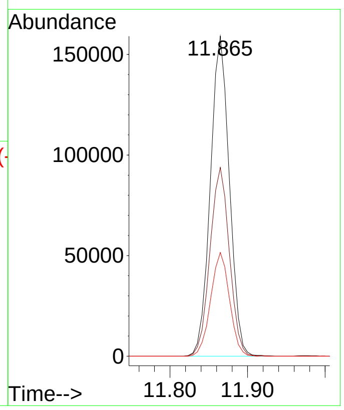


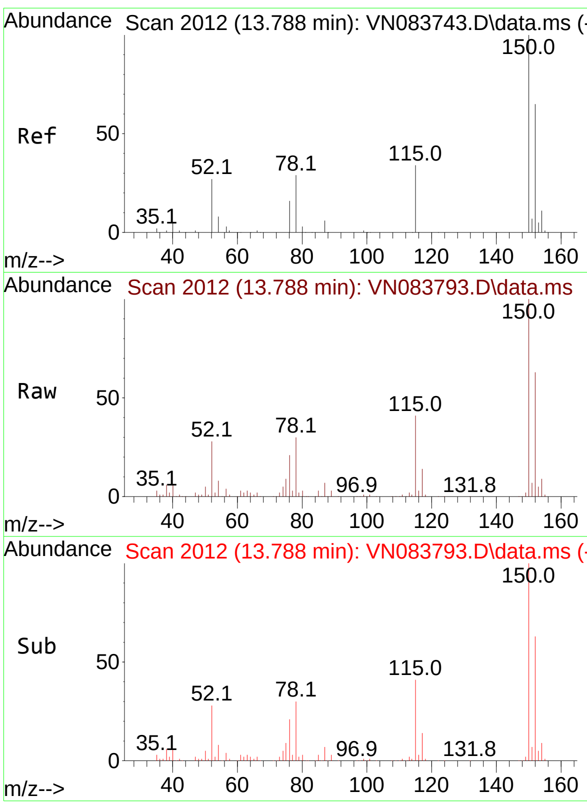
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083793.D
Acq: 11 Sep 2024 13:57

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBL01

Tgt Ion:117 Resp: 271430

Ion	Ratio	Lower	Upper
117	100		
82	59.0	47.4	71.0
119	32.4	26.3	39.5

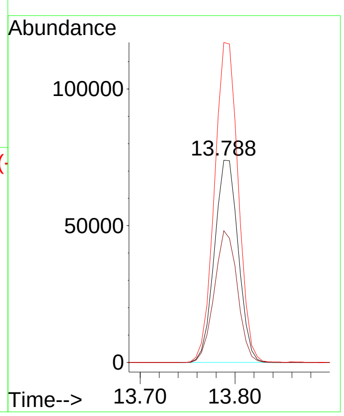




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN083793.D
Acq: 11 Sep 2024 13:57

Tgt Ion:152 Resp: 129037

Ion	Ratio	Lower	Upper
152	100		
115	63.4	32.2	96.6
150	157.6	0.0	348.6



Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBS01	SDG No.:	P3845
Lab Sample ID:	VN0910WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083753.D	1		09/10/24 15:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		0.21	1.00	ug/L
74-87-3	Chloromethane	18.1		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	17.5		0.34	1.00	ug/L
141-78-6	Ethyl Acetate	18.7		0.38	1.00	ug/L
108-21-4	Isopropyl Acetate	18.1		0.29	1.00	ug/L
74-83-9	Bromomethane	17.3		1.40	5.00	ug/L
75-00-3	Chloroethane	16.0		0.56	1.00	ug/L
109-99-9	Tetrahydrofuran	92.6		1.20	5.00	ug/L
75-69-4	Trichlorofluoromethane	17.6		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.8		0.25	1.00	ug/L
75-65-0	Tert butyl alcohol	93.1		5.60	25.0	ug/L
60-29-7	Diethyl Ether	17.2		0.20	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.6		0.26	1.00	ug/L
107-02-8	Acrolein	100		6.70	25.0	ug/L
107-13-1	Acrylonitrile	90.8		0.90	5.00	ug/L
67-64-1	Acetone	96.0		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.6		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.5		0.60	1.00	ug/L
75-09-2	Methylene Chloride	17.9		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	16.6		0.25	1.00	ug/L
108-05-4	Vinyl Acetate	90.9		0.71	5.00	ug/L
75-34-3	1,1-Dichloroethane	17.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.6		1.60	5.00	ug/L
78-93-3	2-Butanone	93.6		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.7		0.25	1.00	ug/L
594-20-7	2,2-Dichloropropane	18.2		0.31	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.7		0.25	1.00	ug/L
74-97-5	Bromochloromethane	22.3		0.18	1.00	ug/L
67-66-3	Chloroform	17.6		0.26	1.00	ug/L

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBS01	SDG No.:	P3845
Lab Sample ID:	VN0910WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083753.D	1		09/10/24 15:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	17.9		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.8		0.19	1.00	ug/L
563-58-6	1,1-Dichloropropene	16.7		0.18	1.00	ug/L
71-43-2	Benzene	17.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.1		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.1		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.6		0.19	1.00	ug/L
74-95-3	Dibromomethane	18.1		0.23	1.00	ug/L
75-27-4	Bromodichloromethane	18.1		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	94.3		0.75	5.00	ug/L
108-88-3	Toluene	18.2		0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.5		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.4		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	17.4		0.21	1.00	ug/L
142-28-9	1,3-Dichloropropane	18.3		0.17	1.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	92.5		1.80	5.00	ug/L
591-78-6	2-Hexanone	96.6		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	18.5		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	16.9		0.25	1.00	ug/L
108-90-7	Chlorobenzene	16.9		0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	17.0		0.21	1.00	ug/L
67-72-1	Hexachloroethane	17.5		0.29	1.00	ug/L
100-41-4	Ethyl Benzene	17.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	34.9		0.31	2.00	ug/L
1330-20-7	Total Xylenes	52.6		0.45	3.00	ug/L
95-47-6	o-Xylene	17.7		0.14	1.00	ug/L
100-42-5	Styrene	17.9		0.16	1.00	ug/L
75-25-2	Bromoform	18.5		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	17.4		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.4		0.27	1.00	ug/L

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBS01	SDG No.:	P3845
Lab Sample ID:	VN0910WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083753.D	1		09/10/24 15:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
96-18-4	1,2,3-Trichloropropane	17.6		0.39	1.00	ug/L
108-86-1	Bromobenzene	17.3		0.26	1.00	ug/L
103-65-1	n-propylbenzene	17.7		0.14	1.00	ug/L
95-49-8	2-Chlorotoluene	17.5		0.16	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	17.6		0.18	1.00	ug/L
106-43-4	4-Chlorotoluene	17.4		0.18	1.00	ug/L
98-06-6	tert-Butylbenzene	17.6		0.17	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	17.7		0.18	1.00	ug/L
135-98-8	sec-Butylbenzene	17.5		0.17	1.00	ug/L
99-87-6	p-Isopropyltoluene	17.5		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	16.3		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.0		0.27	1.00	ug/L
104-51-8	n-Butylbenzene	16.5		0.22	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	16.9		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.0		0.42	1.00	ug/L
87-68-3	Hexachlorobutadiene	16.4		0.31	1.00	ug/L
91-20-3	Naphthalene	17.1		0.59	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.1		0.51	1.00	ug/L
628-63-7	N-amyl acetate	18.0		0.23	1.00	ug/L
74-88-4	Methyl Iodide	17.6		1.20	5.00	ug/L
107-05-1	Allyl chloride	18.0		0.24	1.00	ug/L
126-98-7	Methacrylonitrile	18.3		0.31	1.00	ug/L
97-63-2	Ethyl methacrylate	18.8		0.16	1.00	ug/L
108-20-3	Diisopropyl ether	17.6		0.16	1.00	ug/L
123-91-1	1,4-Dioxane	370		6.50	100	ug/L
80-62-6	Methyl methacrylate	18.1		0.32	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.0		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	50.8		86 - 113	102%	SPK: 50

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBS01	SDG No.:	P3845
Lab Sample ID:	VN0910WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083753.D	1		09/10/24 15:34	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	47.3		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	162000	8.224			
540-36-3	1,4-Difluorobenzene	281000	9.1			
3114-55-4	Chlorobenzene-d5	247000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	118000	13.794			

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083753.D
Acq On : 10 Sep 2024 15:34
Operator : JC\MD
Sample : VN0910WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:13:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	162351	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	280742	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	247046	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	118496	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	122332	49.972	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.940%			
35) Dibromofluoromethane	8.165	113	86868	48.333	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.660%			
50) Toluene-d8	10.565	98	315474	50.774	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.540%			
62) 4-Bromofluorobenzene	12.847	95	121173	47.270	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	35252	18.697	ug/l	95
3) Chloromethane	2.359	50	37133	18.109	ug/l	94
4) Vinyl Chloride	2.512	62	36153	17.494	ug/l	98
5) Bromomethane	2.906	94	20477	17.257	ug/l	94
6) Chloroethane	3.077	64	23264	16.048	ug/l	99
7) Trichlorofluoromethane	3.471	101	61585	17.556	ug/l	100
8) Diethyl Ether	3.948	74	20270	17.238	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.348	101	33101	17.802	ug/l	97
10) Methyl Iodide	4.577	142	41582	17.584	ug/l	93
11) Tert butyl alcohol	5.530	59	30503	93.050	ug/l #	86
12) 1,1-Dichloroethene	4.324	96	30920	17.608	ug/l	97
13) Acrolein	4.177	56	32538	100.599	ug/l	98
14) Allyl chloride	5.018	41	56194	17.959	ug/l	98
15) Acrylonitrile	5.718	53	80905	90.752	ug/l	99
16) Acetone	4.430	43	94256	96.047	ug/l	96
17) Carbon Disulfide	4.700	76	81669	16.626	ug/l	100
18) Methyl Acetate	5.024	43	40141	18.461	ug/l	98
19) Methyl tert-butyl Ether	5.795	73	113425	17.850	ug/l	100
20) Methylene Chloride	5.271	84	35985	17.919	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	31149	16.552	ug/l	93
22) Diisopropyl ether	6.671	45	113491	17.620	ug/l	98
23) Vinyl Acetate	6.600	43	428958	90.941	ug/l	100
24) 1,1-Dichloroethane	6.559	63	64282	17.323	ug/l	99
25) 2-Butanone	7.483	43	120702	93.580	ug/l	100
26) 2,2-Dichloropropane	7.489	77	62359	18.248	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	39550	17.704	ug/l	97
28) Bromochloromethane	7.812	49	34873	22.316	ug/l	95
29) Tetrahydrofuran	7.836	42	70655	92.642	ug/l	99
30) Chloroform	7.959	83	69388	17.613	ug/l	87
31) Cyclohexane	8.253	56	58772	16.611	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	64940	17.927	ug/l	96
36) 1,1-Dichloropropene	8.365	75	45106	16.674	ug/l	99
37) Ethyl Acetate	7.559	43	45824	18.662	ug/l	99
38) Carbon Tetrachloride	8.359	117	54184	17.655	ug/l	97
39) Methylcyclohexane	9.600	83	54951	17.846	ug/l	98
40) Benzene	8.606	78	142807	17.539	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083753.D
Acq On : 10 Sep 2024 15:34
Operator : JC\MD
Sample : VN0910WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:13:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	26586	18.306 ug/l	100
42) 1,2-Dichloroethane	8.665	62	55145	18.125 ug/l	99
43) Isopropyl Acetate	8.688	43	80526	18.097 ug/l	97
44) Trichloroethene	9.347	130	32252	17.105 ug/l	94
45) 1,2-Dichloropropane	9.618	63	34698	17.632 ug/l	98
46) Dibromomethane	9.706	93	25014	18.147 ug/l	99
47) Bromodichloromethane	9.888	83	54114	18.140 ug/l	94
48) Methyl methacrylate	9.682	41	38216	18.102 ug/l	98
49) 1,4-Dioxane	9.694	88	12847	369.924 ug/l #	100
51) 4-Methyl-2-Pentanone	10.447	43	228491	94.333 ug/l	98
52) Toluene	10.629	92	90757	18.223 ug/l	100
53) t-1,3-Dichloropropene	10.835	75	52931	17.505 ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	55186	17.375 ug/l	94
55) 1,1,2-Trichloroethane	11.018	97	32397	17.424 ug/l	96
56) Ethyl methacrylate	10.877	69	53795	18.805 ug/l	96
57) 1,3-Dichloropropane	11.165	76	58321	18.251 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	95385	92.540 ug/l	99
59) 2-Hexanone	11.194	43	173148	96.637 ug/l	97
60) Dibromochloromethane	11.353	129	38399	18.454 ug/l	98
61) 1,2-Dibromoethane	11.471	107	33841	18.250 ug/l	98
64) Tetrachloroethene	11.106	164	27769	16.902 ug/l	94
65) Chlorobenzene	11.894	112	92980	16.934 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	32451	17.048 ug/l	96
67) Ethyl Benzene	11.965	91	169809	17.409 ug/l	97
68) m/p-Xylenes	12.071	106	126551	34.947 ug/l	99
69) o-Xylene	12.400	106	62102	17.715 ug/l	99
70) Styrene	12.412	104	103019	17.906 ug/l	99
71) Bromoform	12.576	173	23674	18.457 ug/l #	98
73) Isopropylbenzene	12.694	105	159651	17.415 ug/l	99
74) N-amyl acetate	12.494	43	70315	17.977 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	46843	17.390 ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	41144m	17.643 ug/l	
77) Bromobenzene	12.976	156	38245	17.331 ug/l	97
78) n-propylbenzene	13.035	91	188282	17.652 ug/l	97
79) 2-Chlorotoluene	13.123	91	118924	17.482 ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	136142	17.614 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	15684	17.180 ug/l	91
82) 4-Chlorotoluene	13.223	91	118725	17.392 ug/l	100
83) tert-Butylbenzene	13.435	119	119007	17.599 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	137616	17.725 ug/l	97
85) sec-Butylbenzene	13.618	105	157073	17.515 ug/l	99
86) p-Isopropyltoluene	13.729	119	131799	17.532 ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	67788	16.277 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	67622	16.035 ug/l	97
89) n-Butylbenzene	14.059	91	111665	16.544 ug/l	99
90) Hexachloroethane	14.335	117	26417	17.481 ug/l	94
91) 1,2-Dichlorobenzene	14.106	146	67739	16.853 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10143	18.890 ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	34603	16.043 ug/l	99
94) Hexachlorobutadiene	15.500	225	15029	16.408 ug/l	99
95) Naphthalene	15.641	128	111998	17.068 ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	33107	16.061 ug/l	98

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083753.D
Acq On    : 10 Sep 2024  15:34
Operator  : JC\MD
Sample    : VN0910WBS01
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 14   Sample Multiplier: 1

Quant Time: Sep 11 03:13:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title  : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

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

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

Quantitation Report (QT Reviewed)

Sample Results: **VN083753.D**

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083753.D
Acq On    : 10 Sep 2024  15:34
Operator  : JC\MD
Sample    : VN0910WBS01
Misc      : 5.0mL/MSVOA_N/WATER
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Quant Time: Sep 11 03:13:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title  : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations APPROVED

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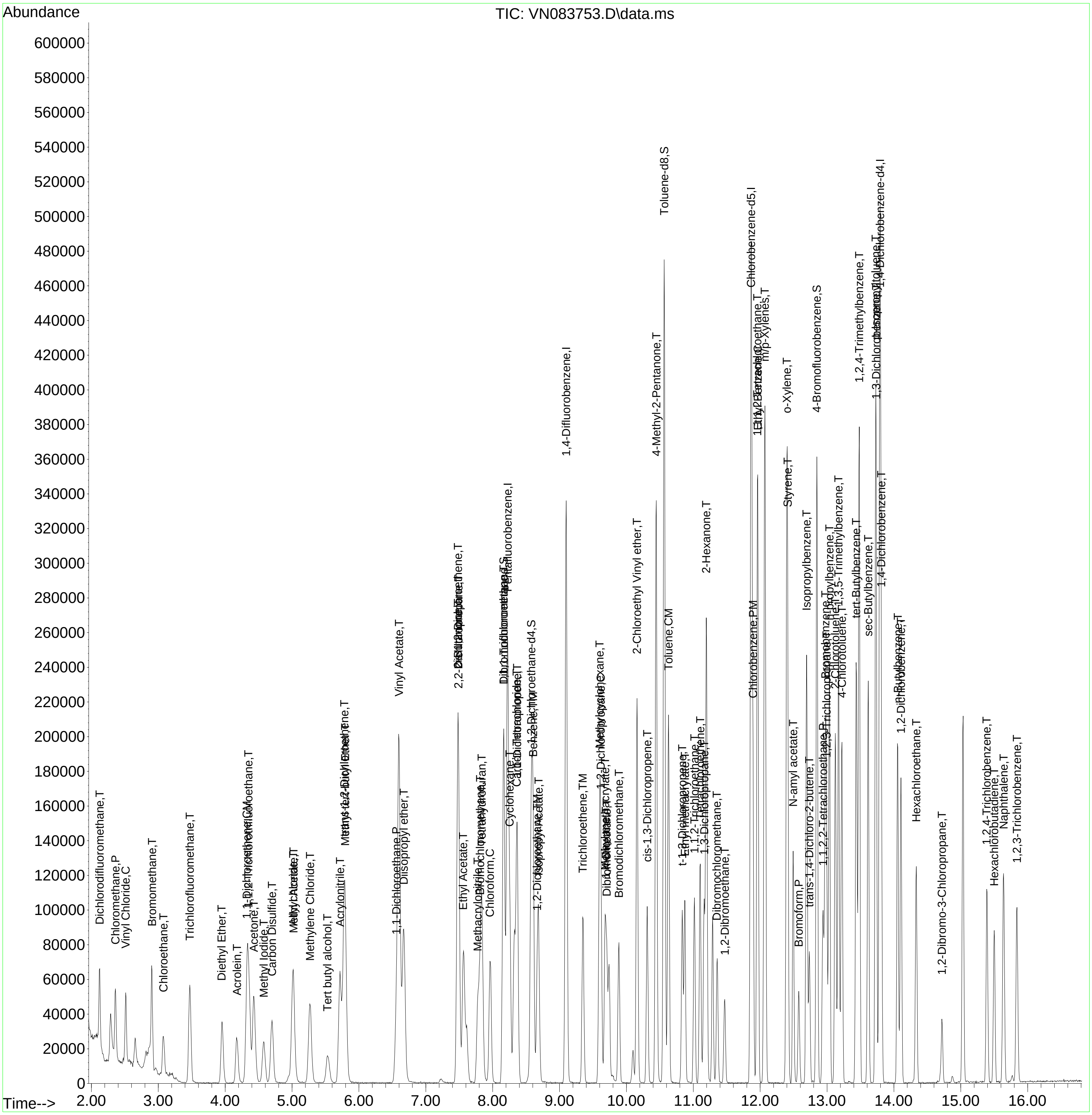

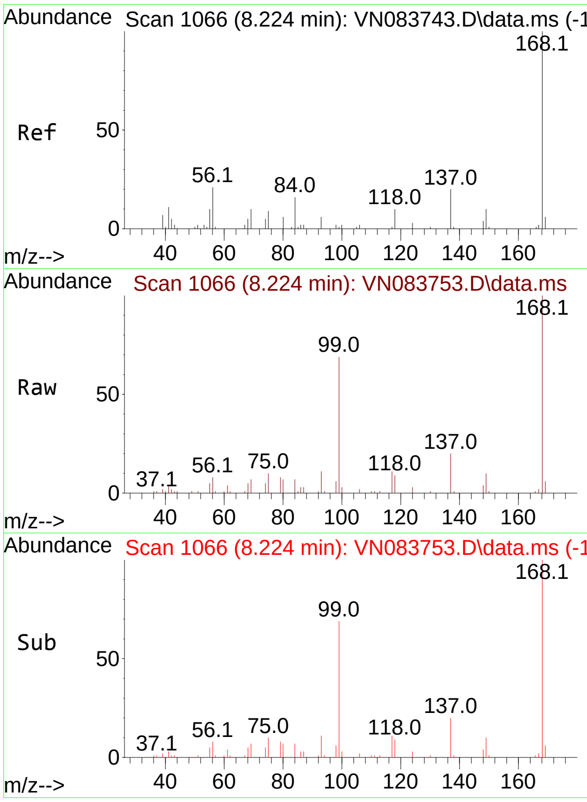

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:168 Resp: 16235

Ion	Ratio	Lower	Upper
168	100		
99	68.6	54.2	81.2

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations
APPROVED
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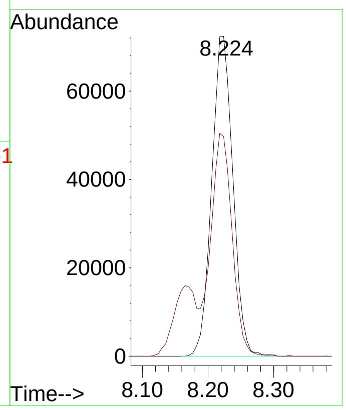
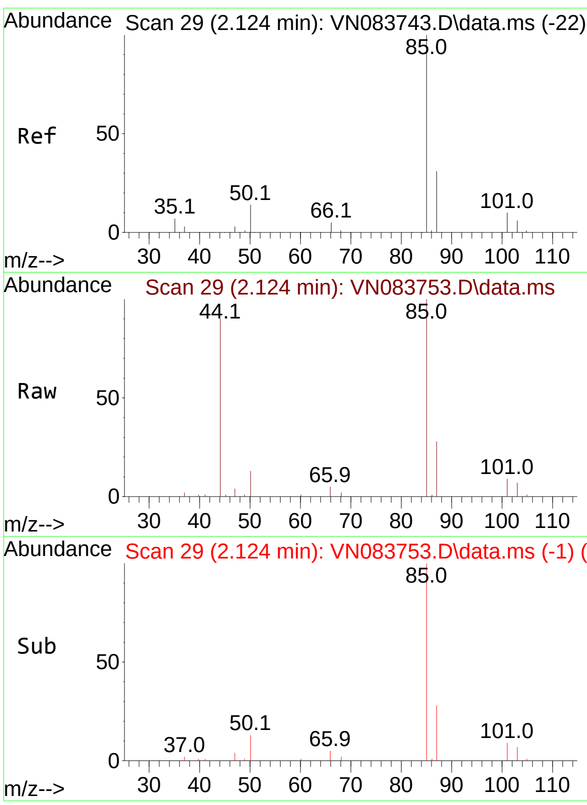
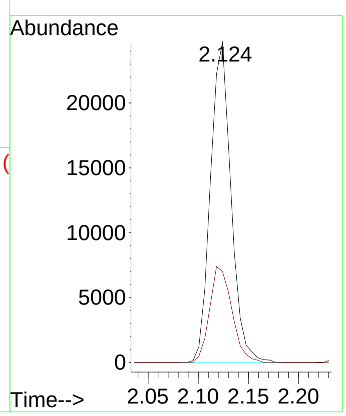


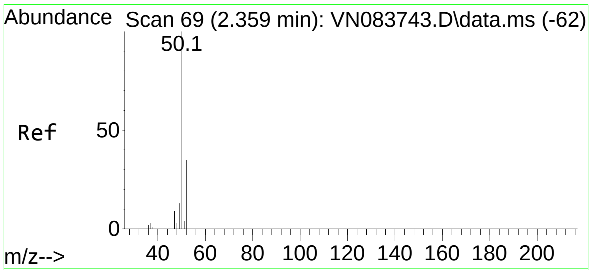


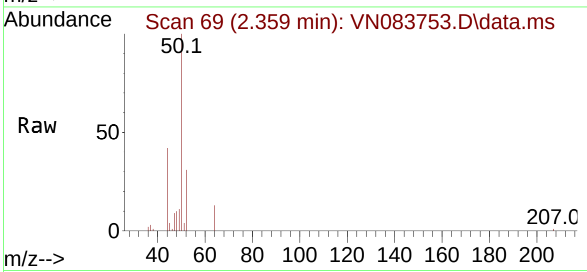
#2
Dichlorodifluoromethane
Concen: 18.697 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

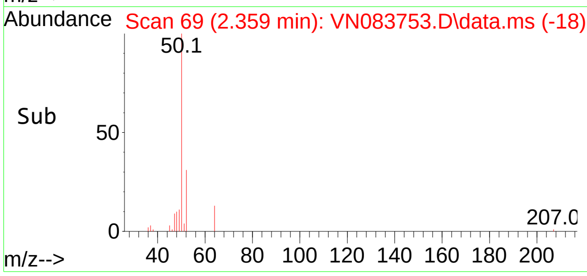
Tgt Ion: 85 Resp: 35252

Ion	Ratio	Lower	Upper
85	100		
87	28.5	15.7	47.0









#3
Chloromethane
Concen: 18.109 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 50 Resp: 3713

Ion	Ratio	Lower	Upper
50	100		
52	30.6	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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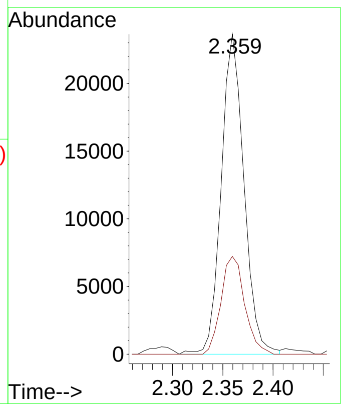
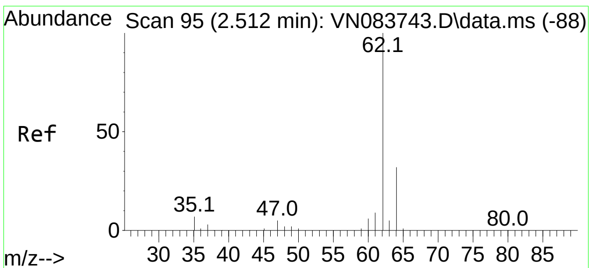
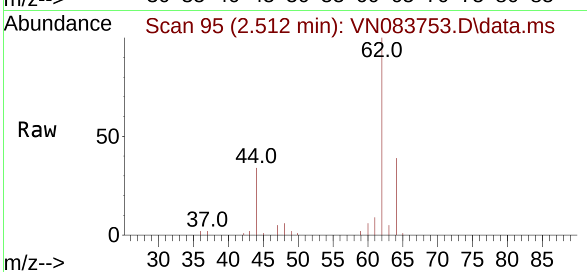
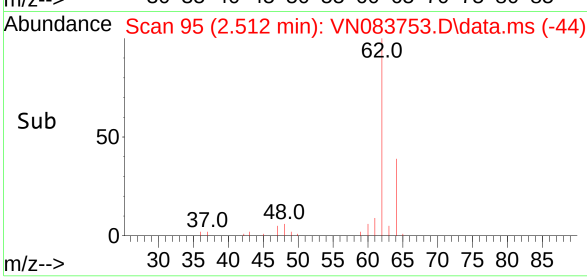




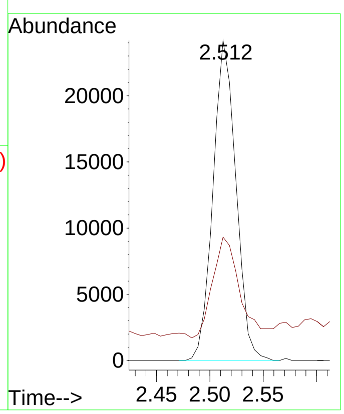




#4
Vinyl Chloride
Concen: 17.494 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 62 Resp: 36153

Ion	Ratio	Lower	Upper
62	100		
64	30.0	24.7	37.1



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
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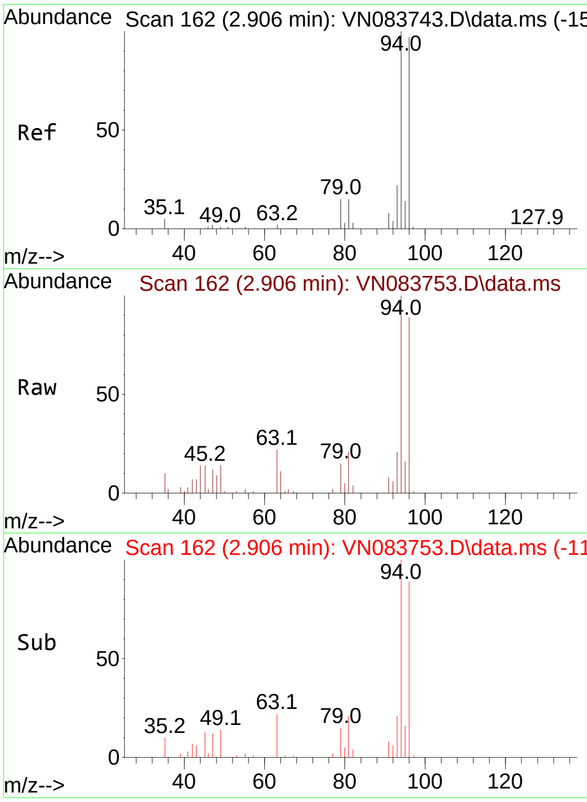
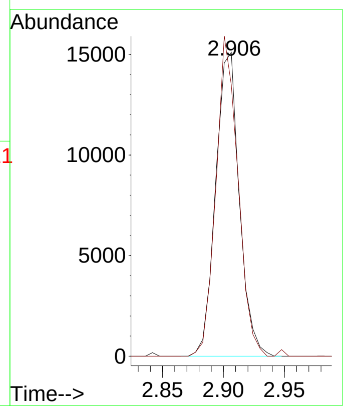
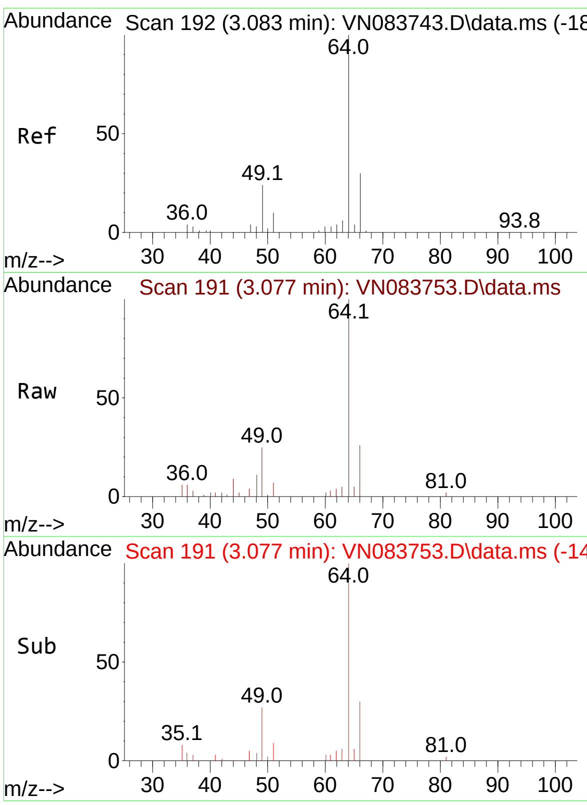


#5
Bromomethane
Concen: 17.257 ug/l
RT: 2.906 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 94 Resp: 2047

Ion	Ratio	Lower	Upper
94	100		
96	89.3	76.0	114.0

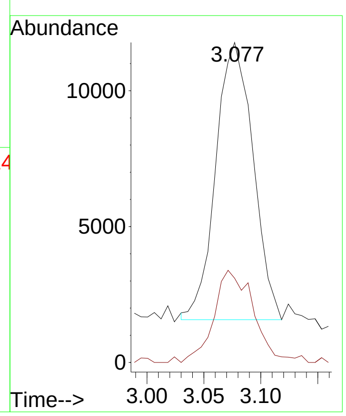




#6
Chloroethane
Concen: 16.048 ug/l
RT: 3.077 min Scan# 191
Delta R.T. -0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 64 Resp: 23264

Ion	Ratio	Lower	Upper
64	100		
66	30.4	23.9	35.9

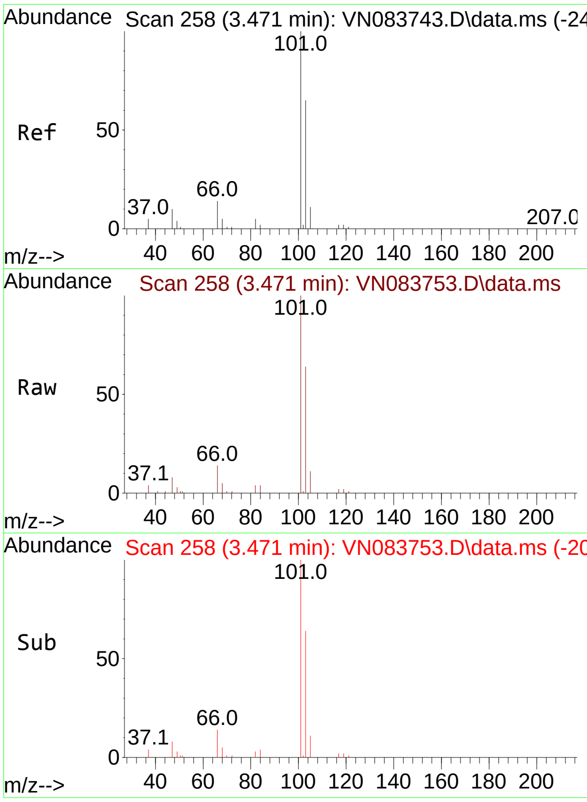


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

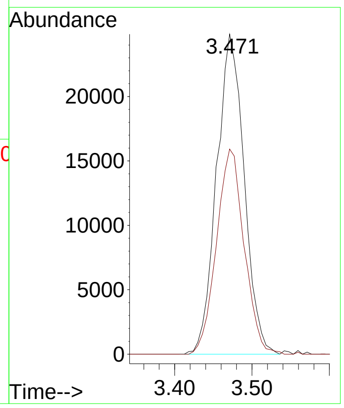
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

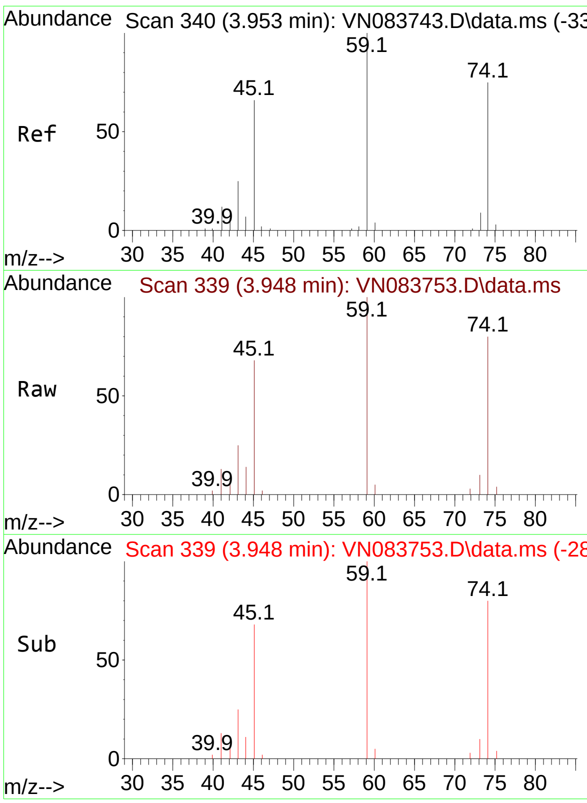


#7
Trichlorofluoromethane
Concen: 17.556 ug/l
RT: 3.471 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:101 Resp: 6158

Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.4	77.0

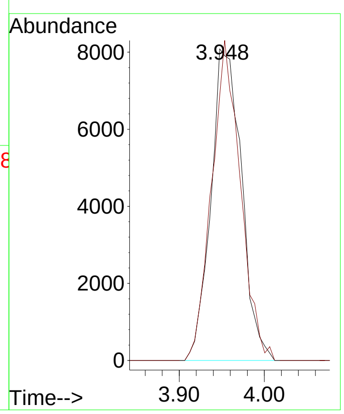




#8
Diethyl Ether
Concen: 17.238 ug/l
RT: 3.948 min Scan# 339
Delta R.T. -0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 74 Resp: 20270

Ion	Ratio	Lower	Upper
74	100		
45	96.4	46.7	140.1



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations APPROVED
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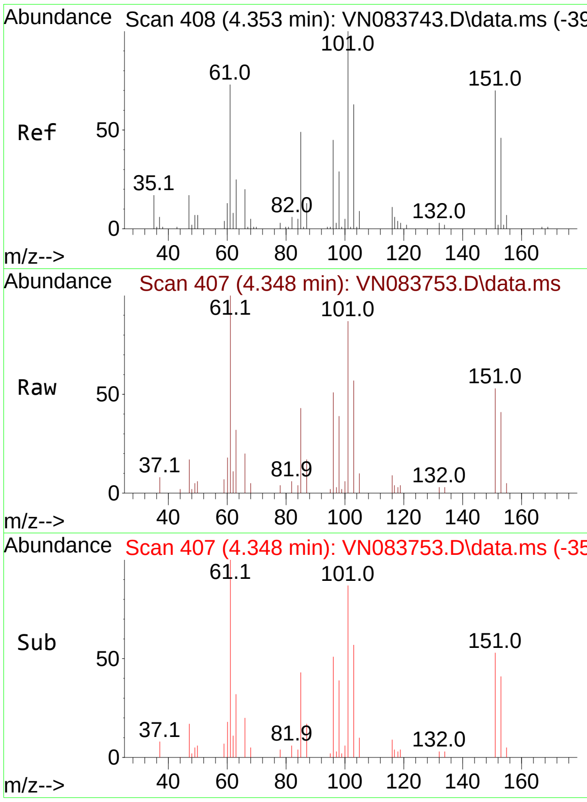
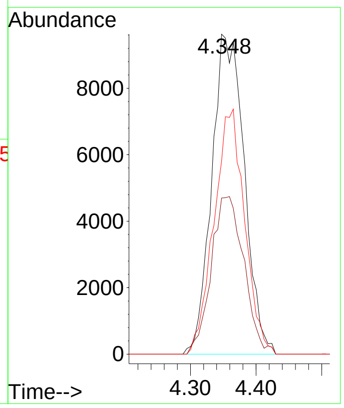
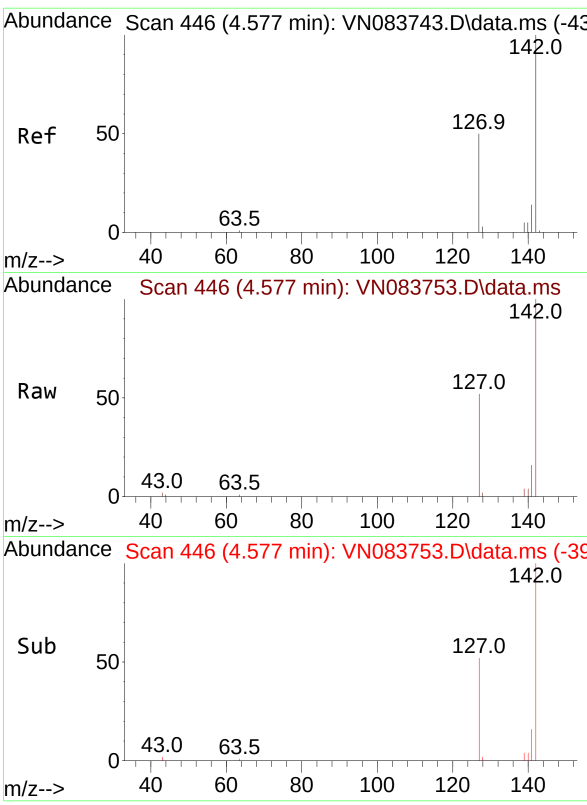


#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.802 ug/l
RT: 4.348 min Scan# 40
Delta R.T. -0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:101 Resp: 33101

Ion	Ratio	Lower	Upper
101	100		
85	49.6	36.2	54.4
151	72.3	57.7	86.5

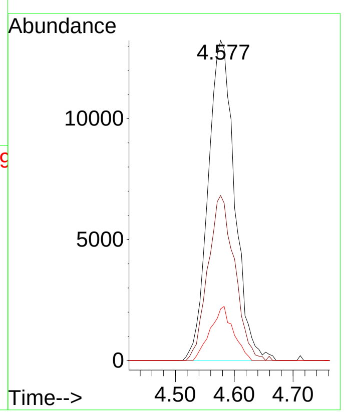


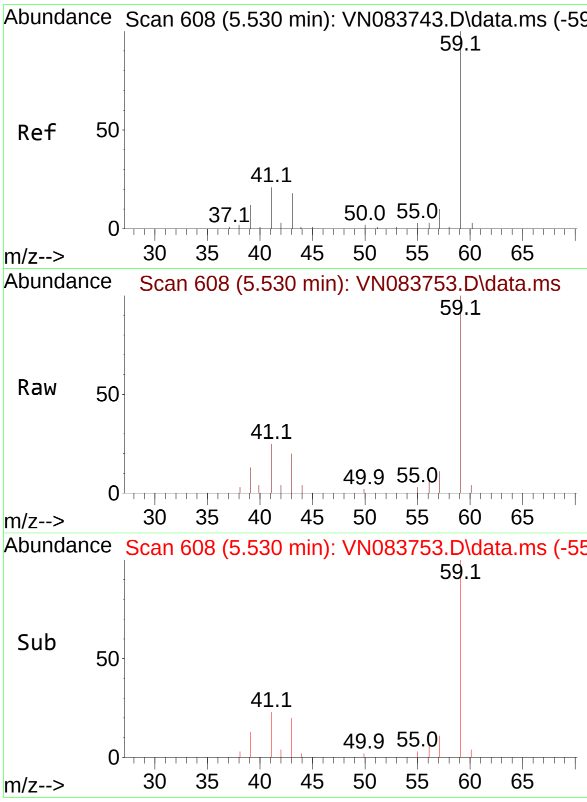


#10
Methyl Iodide
Concen: 17.584 ug/l
RT: 4.577 min Scan# 446
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:142 Resp: 41582

Ion	Ratio	Lower	Upper
142	100		
127	51.6	37.5	56.3
141	16.1	11.0	16.4





#11
Tert butyl alcohol
Concen: 93.050 ug/l
RT: 5.530 min Scan# 60
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 59 Resp: 3050

Ion	Ratio	Lower	Upper
59	100		
57	5.6	8.7	13.1

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations APPROVED
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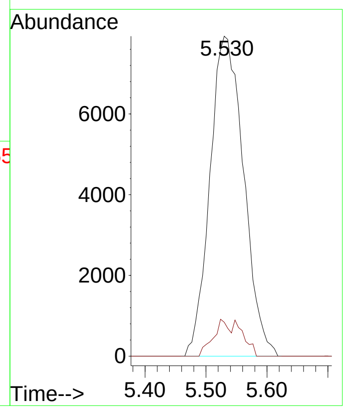

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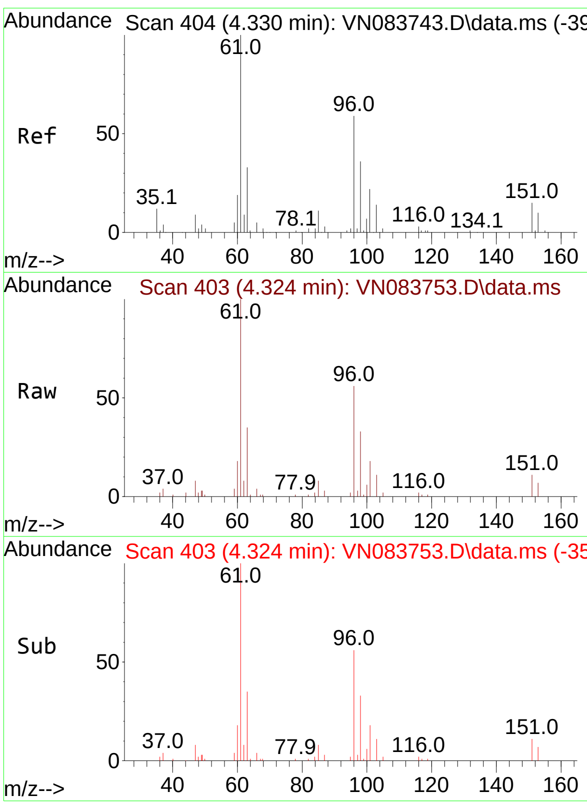
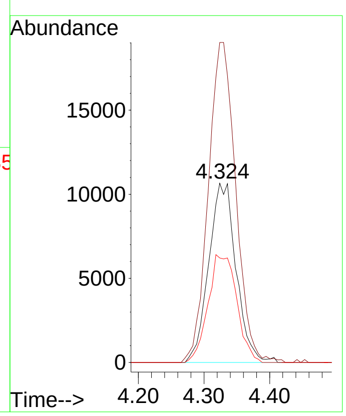


#12
1,1-Dichloroethene
Concen: 17.608 ug/l
RT: 4.324 min Scan# 403
Delta R.T. -0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 96 Resp: 30920

Ion	Ratio	Lower	Upper
96	100		
61	178.5	143.4	215.0
98	58.3	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
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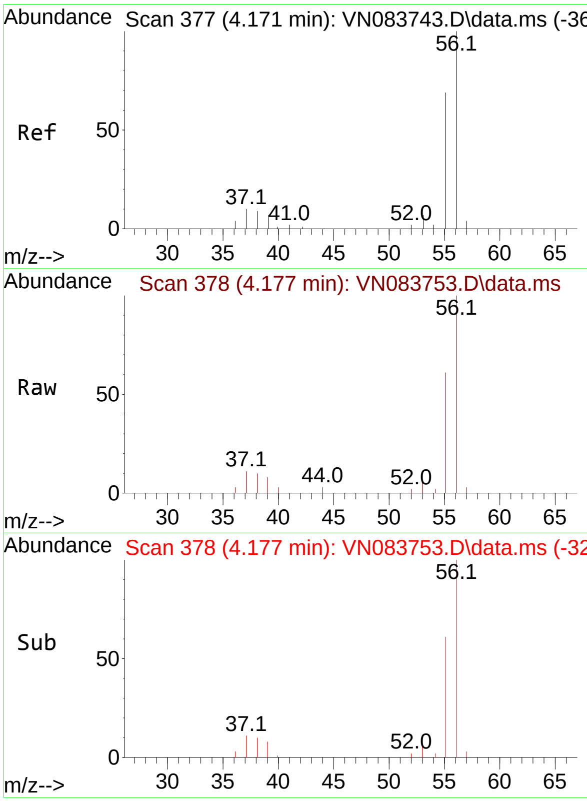
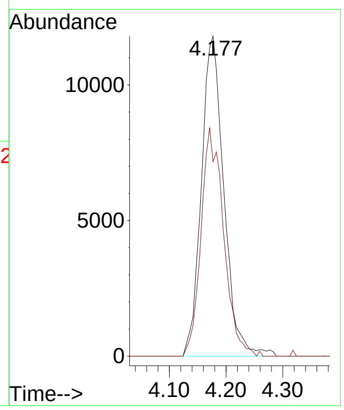
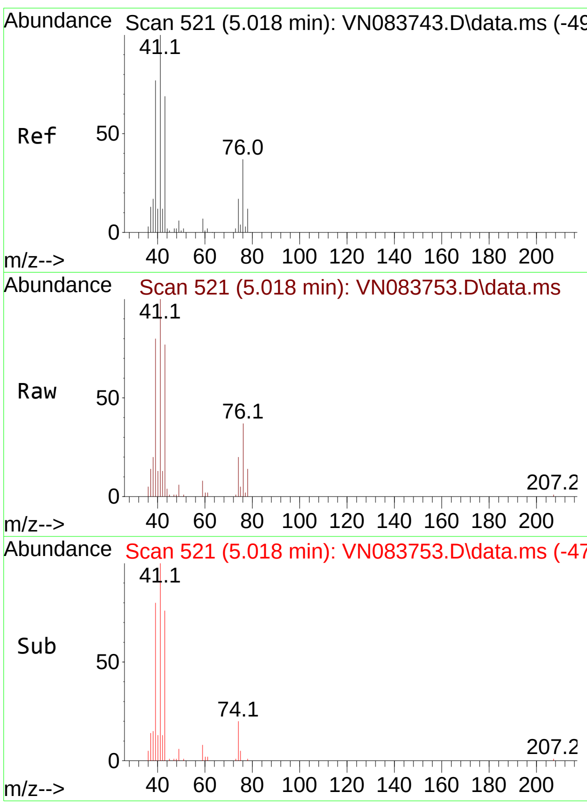


#13
Acrolein
Concen: 100.599 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 56 Resp: 32538

Ion	Ratio	Lower	Upper
56	100		
55	71.4	58.2	87.2

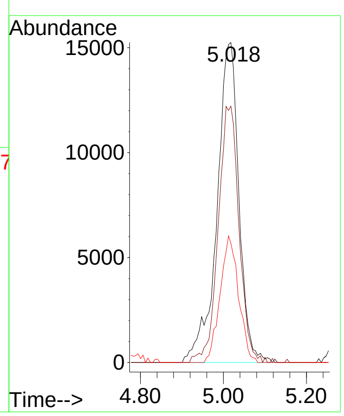


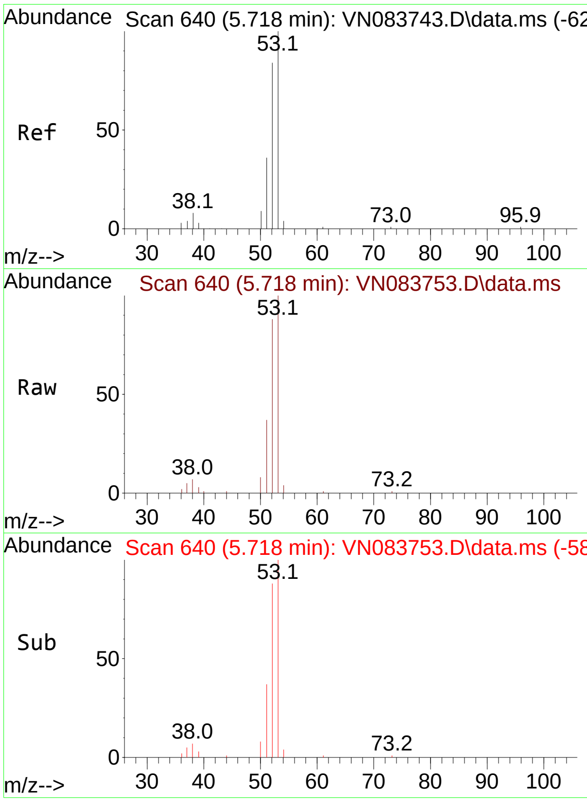


#14
Allyl chloride
Concen: 17.959 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 41 Resp: 56194

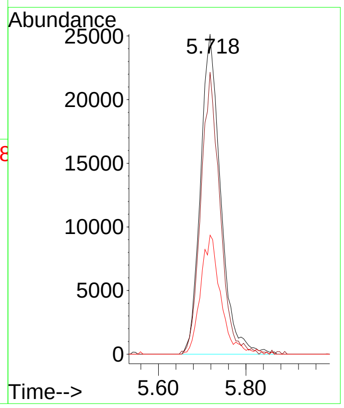
Ion	Ratio	Lower	Upper
41	100		
39	75.7	59.3	88.9
76	33.2	27.7	41.5






```
#15
Acrylonitrile
Concen:   90.752 ug/l
RT:   5.718 min  Scan# 64
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion: 53 Resp:   8090
Ion  Ratio  Lower  Upper
 53  100
 52   83.6   66.1   99.1
 51   36.9   29.6   44.4
```



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

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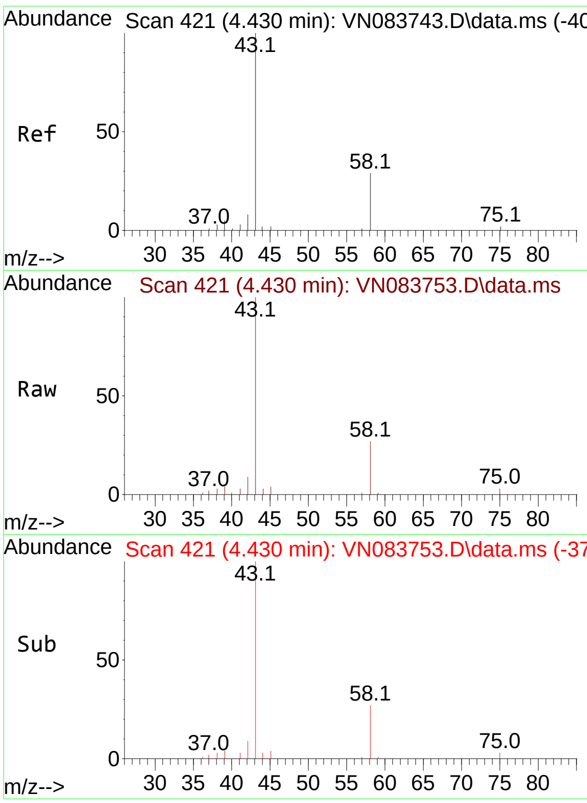
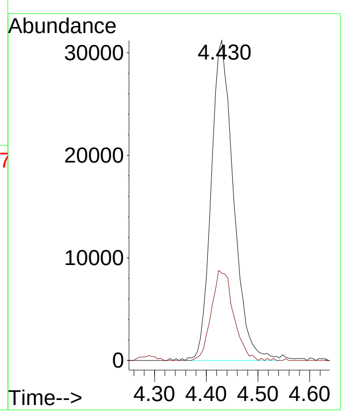



```
#16
Acetone
Concen:   96.047 ug/l
RT:   4.430 min  Scan# 421
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion: 43 Resp:   94256
Ion  Ratio  Lower  Upper
 43  100
 58   27.3   23.7   35.5
```



Instrument : MSVOA_N
ClientSampleId : VN0910WBS01

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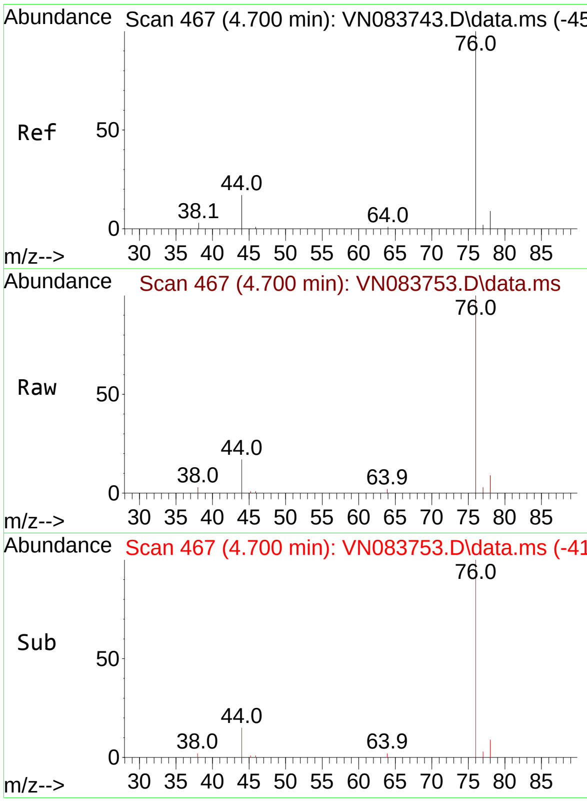
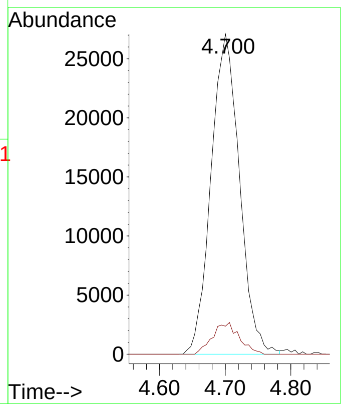
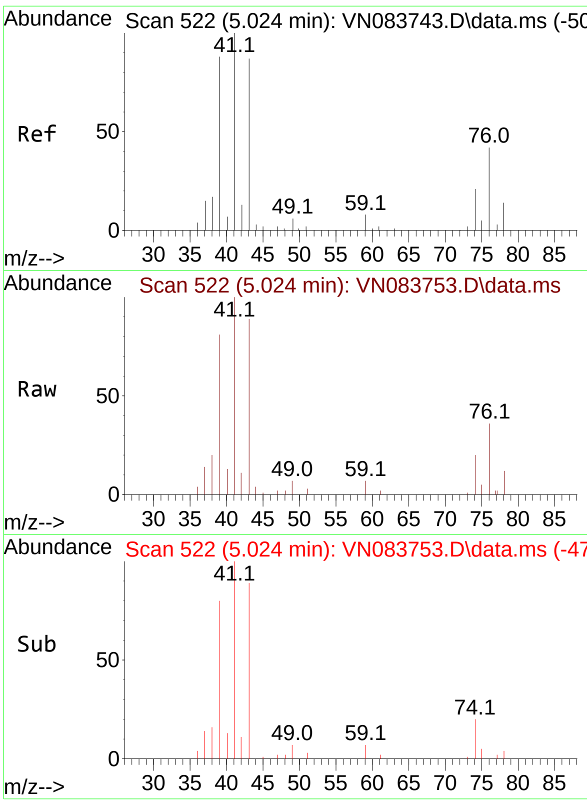



```
#17
Carbon Disulfide
Concen:   16.626 ug/l
RT:   4.700 min  Scan# 4
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

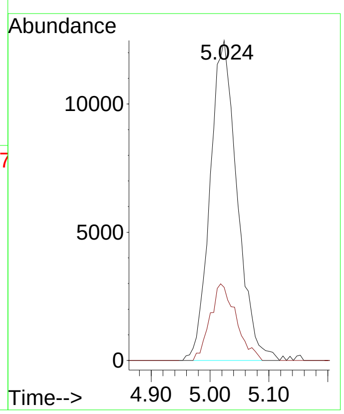
Tgt Ion: 76 Resp:   8166
Ion  Ratio  Lower  Upper
 76  100
 78    8.7    7.1   10.7
```






```
#18
Methyl Acetate
Concen:   18.461 ug/l
RT:   5.024 min  Scan# 522
Delta R.T.  -0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion: 43 Resp:   40141
Ion  Ratio  Lower  Upper
 43  100
 74   22.9   19.0   28.4
```



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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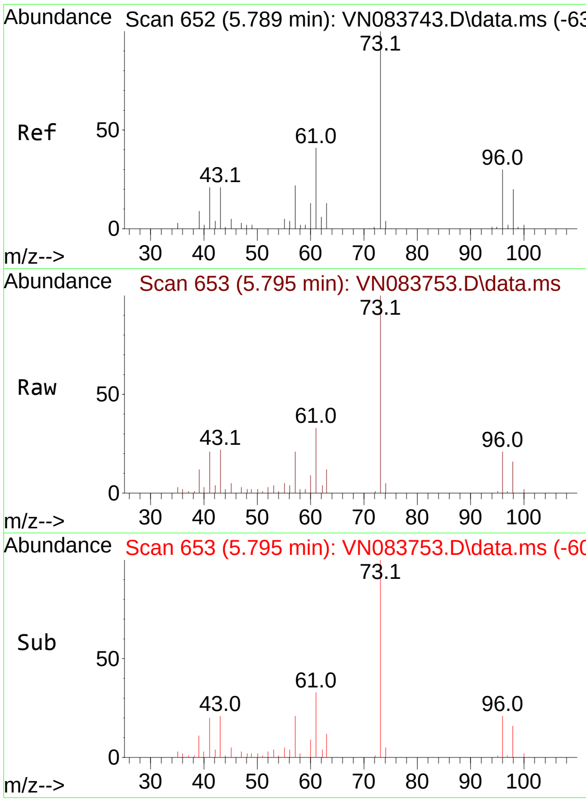
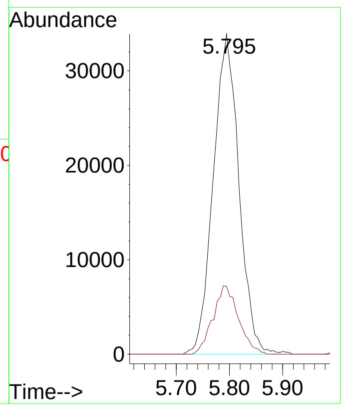
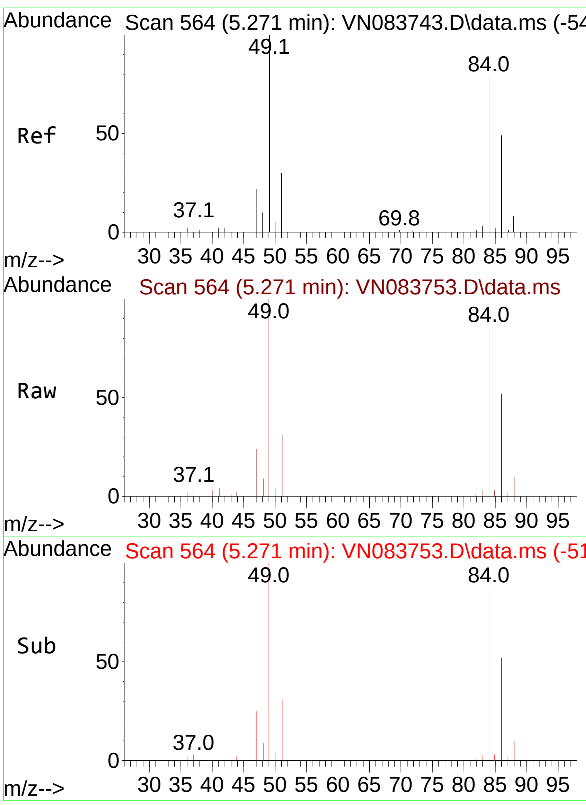


#19
Methyl tert-butyl Ether
Concen: 17.850 ug/l
RT: 5.795 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 73 Resp: 11342

Ion	Ratio	Lower	Upper
73	100		
57	21.2	17.0	25.6

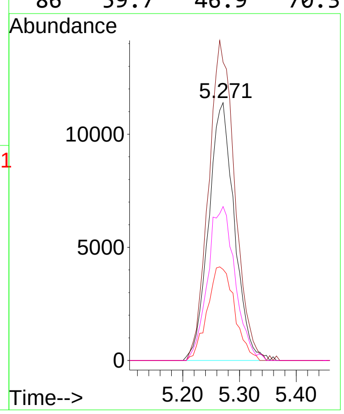




#20
Methylene Chloride
Concen: 17.919 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 84 Resp: 35985

Ion	Ratio	Lower	Upper
84	100		
49	115.7	93.4	140.0
51	35.3	29.2	43.8
86	59.7	46.9	70.3



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument : MSVOA_N
ClientSampleId : VN0910WBS01

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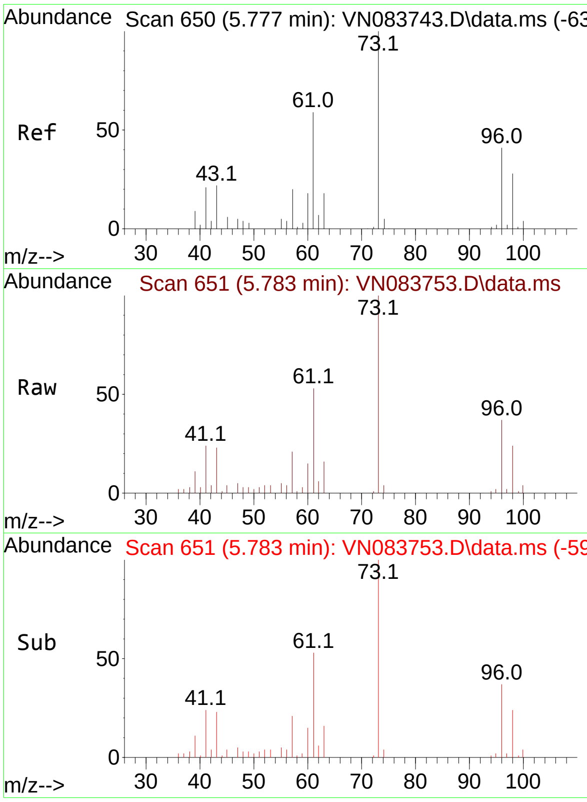
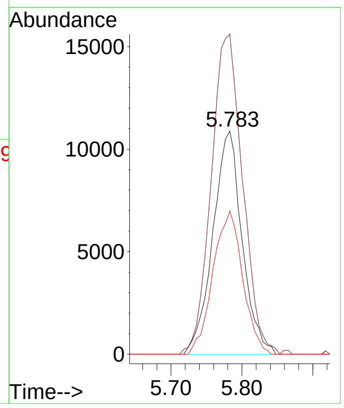
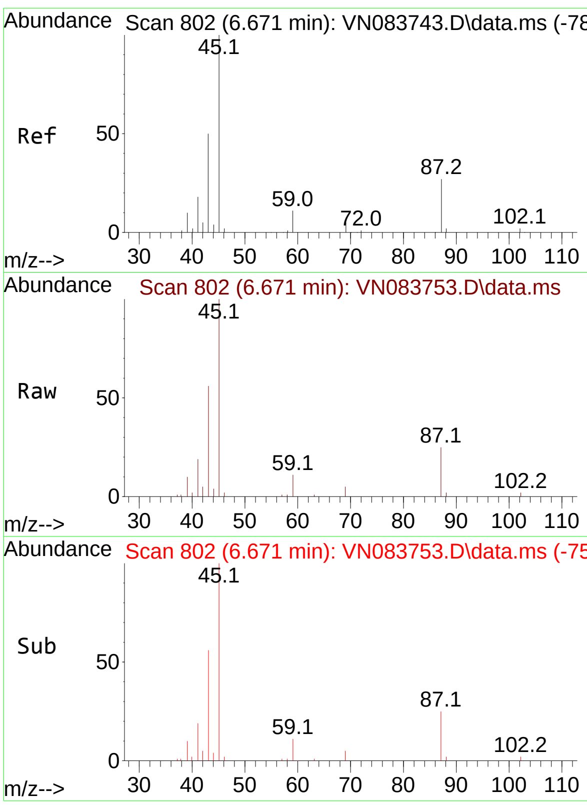


#21
trans-1,2-Dichloroethene
Concen: 16.552 ug/l
RT: 5.783 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 96 Resp: 3114

Ion	Ratio	Lower	Upper
96	100		
61	143.5	106.0	159.0
98	64.2	52.2	78.2

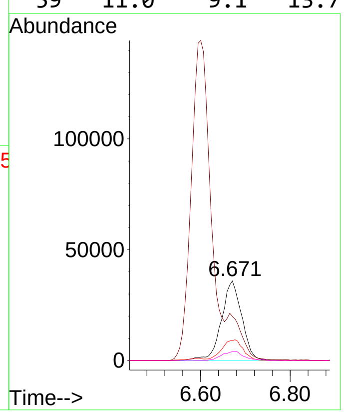




#22
Diisopropyl ether
Concen: 17.620 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 45 Resp: 113491

Ion	Ratio	Lower	Upper
45	100		
43	54.3	43.4	65.0
87	25.1	22.6	33.8
59	11.0	9.1	13.7



Instrument : MSVOA_N
ClientSampleId : VN0910WBS01

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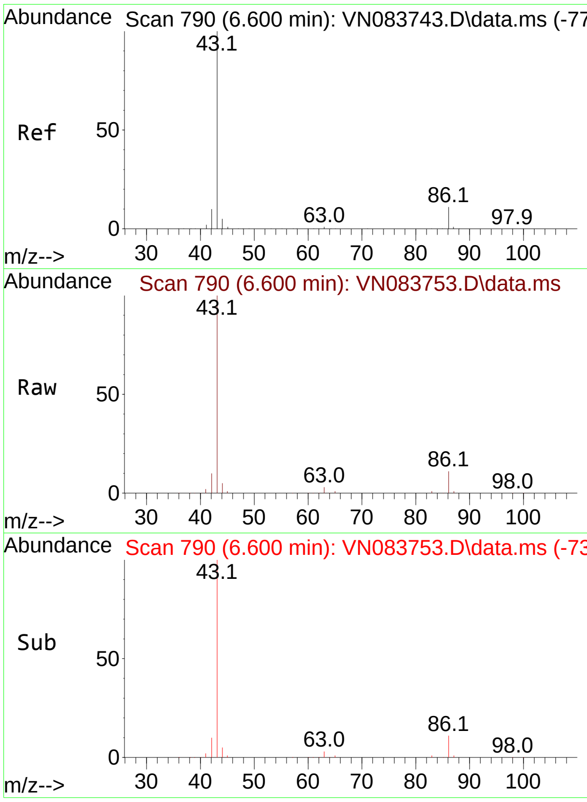
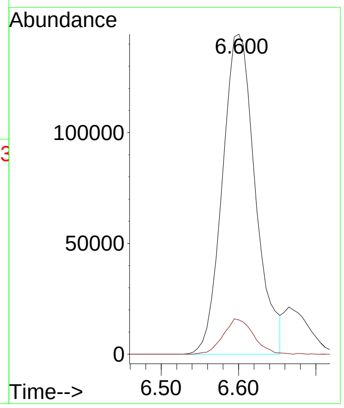
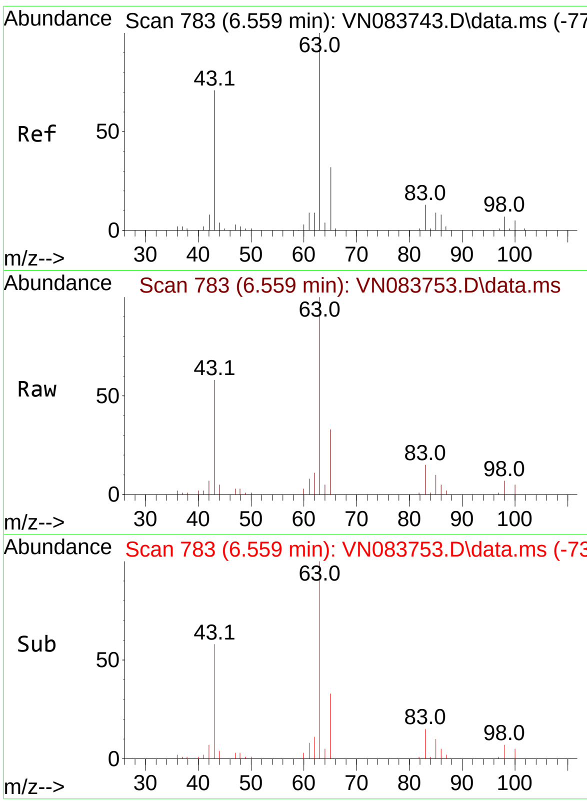
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#23
Vinyl Acetate
Concen:    90.941 ug/l
RT:    6.600 min   Scan# 7
Delta R.T.   0.000 min
Lab File:    VN083753.D
Acq: 10 Sep 2024   15:34

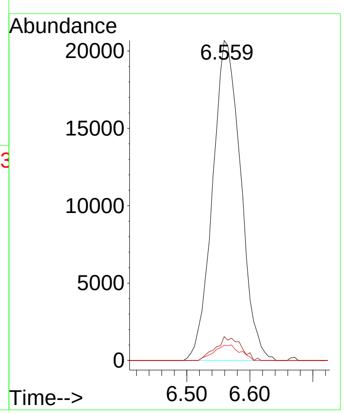
Tgt Ion: 43 Resp:   42895
Ion   Ratio   Lower   Upper
 43   100
 86    10.7     8.7    13.1
```






```
#24
1,1-Dichloroethane
Concen:    17.323 ug/l
RT:    6.559 min   Scan# 783
Delta R.T.   0.000 min
Lab File:    VN083753.D
Acq: 10 Sep 2024   15:34

Tgt Ion: 63 Resp:    64282
Ion   Ratio   Lower   Upper
 63   100
 98     7.4     3.5    10.4
100     4.8     2.5     7.5
```



Instrument :
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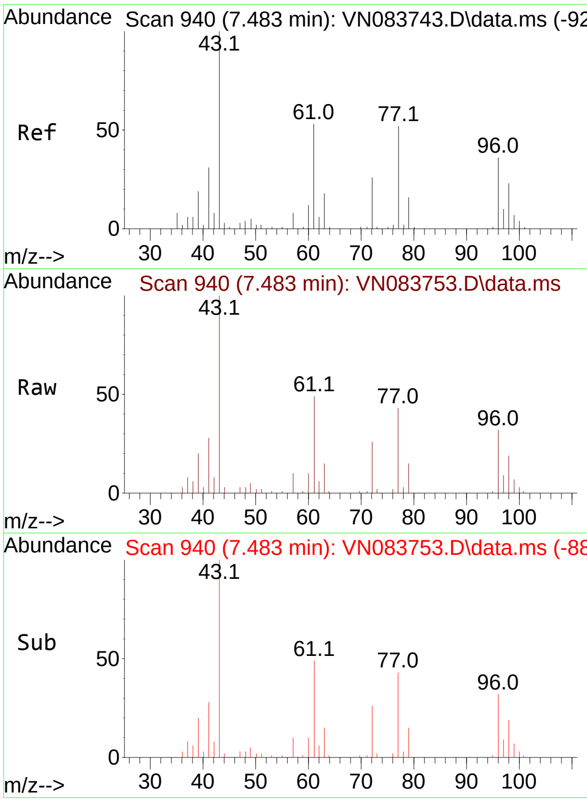
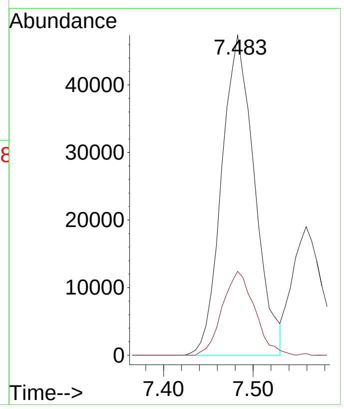
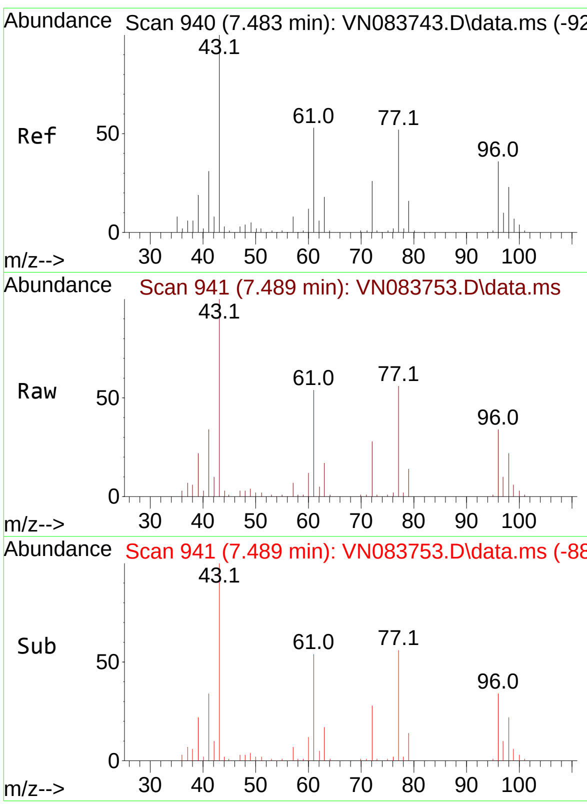



```
#25
2-Butanone
Concen:   93.580 ug/l
RT:   7.483 min  Scan# 94
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

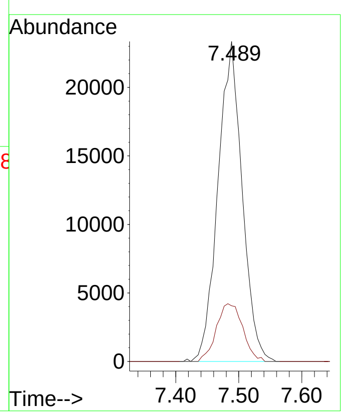
Tgt Ion: 43 Resp:  12070
Ion  Ratio  Lower  Upper
 43  100
 72   26.2   20.8   31.2
```






```
#26
2,2-Dichloropropane
Concen:   18.248 ug/l
RT:   7.489 min  Scan# 941
Delta R.T.  0.006 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion: 77 Resp:   62359
Ion  Ratio  Lower  Upper
 77  100
 97   19.7   10.2   30.4
```



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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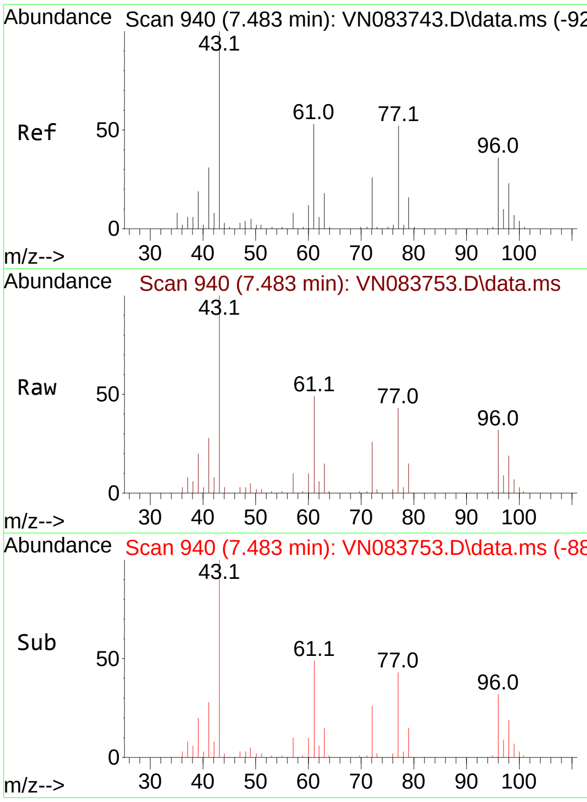
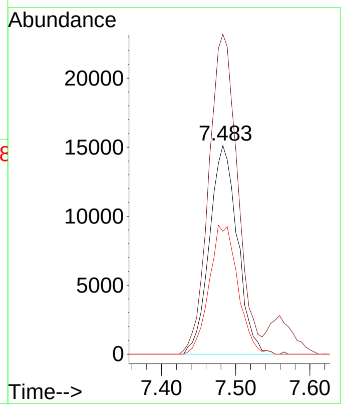
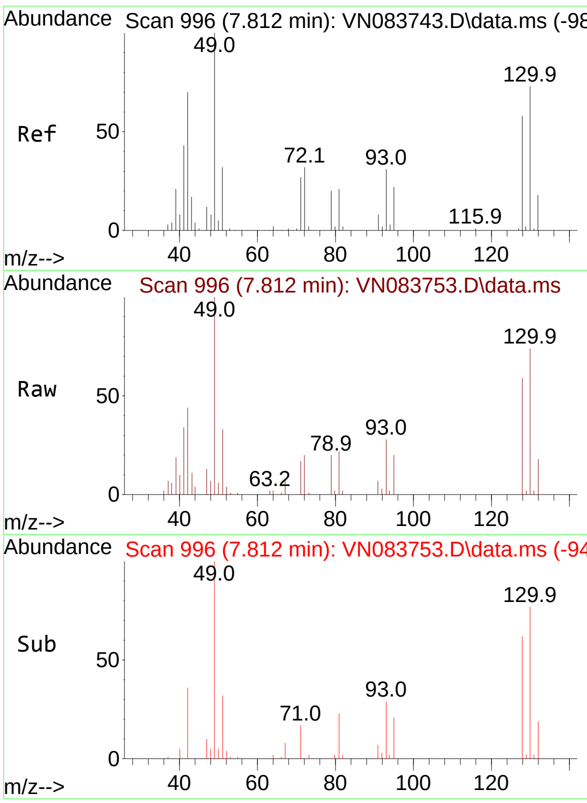



```
#27
cis-1,2-Dichloroethene
Concen:   17.704 ug/l
RT:    7.483 min   Scan# 94
Delta R.T.  0.000 min
Lab File:    VN083753.D
Acq: 10 Sep 2024   15:34

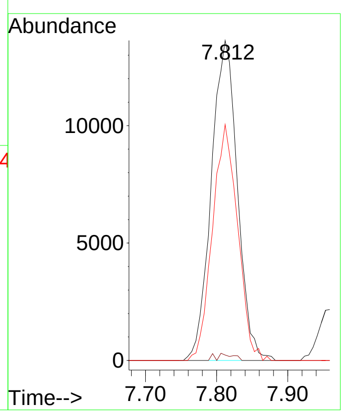
Tgt Ion: 96 Resp:   3955
Ion   Ratio   Lower   Upper
 96   100
 61   158.2     0.0   306.2
 98    63.2     0.0   128.6
```






```
#28
Bromochloromethane
Concen:   22.316 ug/l
RT:    7.812 min   Scan# 996
Delta R.T.  0.000 min
Lab File:    VN083753.D
Acq: 10 Sep 2024   15:34

Tgt Ion: 49 Resp:    34873
Ion   Ratio   Lower   Upper
 49   100
129     1.4     0.0     3.4
130    70.9    60.2    90.2
```



Instrument :
MSVOA_N
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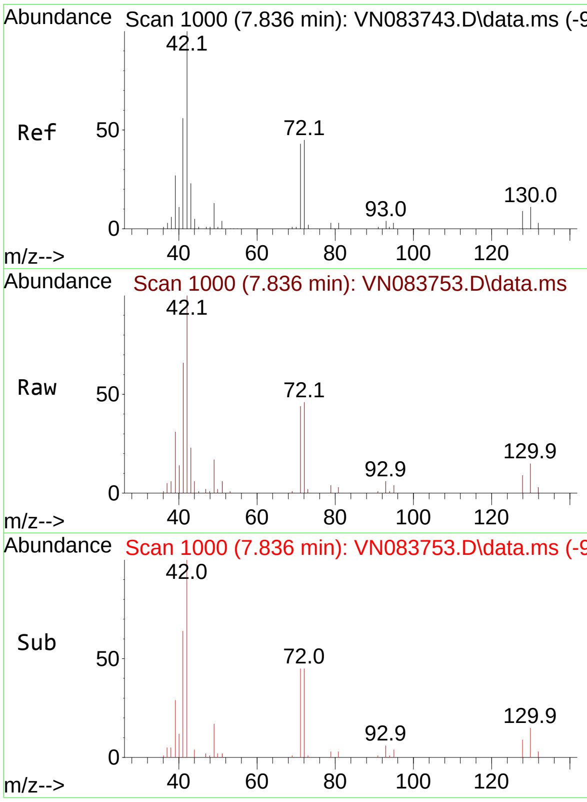
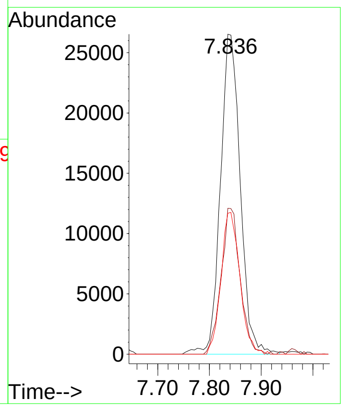
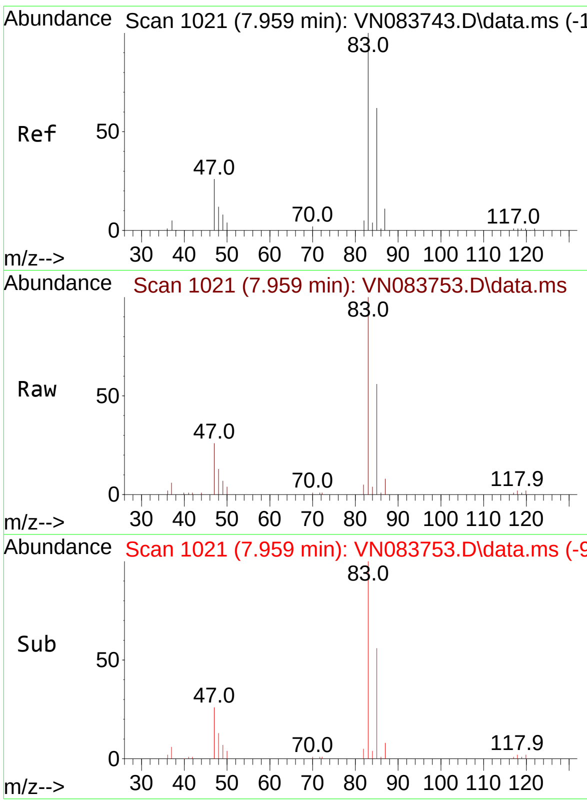



```
#29
Tetrahydrofuran
Concen:   92.642 ug/l
RT:   7.836 min   Scan# 1
Delta R.T.   0.000 min
Lab File:    VN083753.D
Acq: 10 Sep 2024   15:34

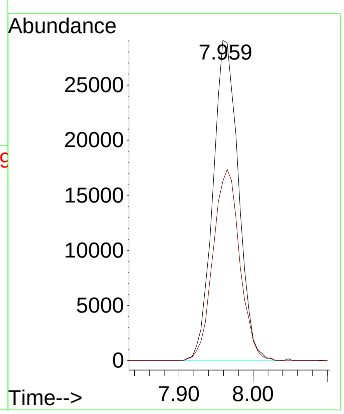
Tgt Ion: 42 Resp:   7065
Ion   Ratio   Lower   Upper
 42   100
 72    43.8    35.9    53.9
 71    42.3    33.9    50.9
```






```
#30
Chloroform
Concen:   17.613 ug/l
RT:   7.959 min   Scan# 1021
Delta R.T.   0.000 min
Lab File:    VN083753.D
Acq: 10 Sep 2024   15:34

Tgt Ion: 83 Resp:   69388
Ion   Ratio   Lower   Upper
 83   100
 85    56.0    52.8    79.2
```



Instrument :
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VN0910WBS01

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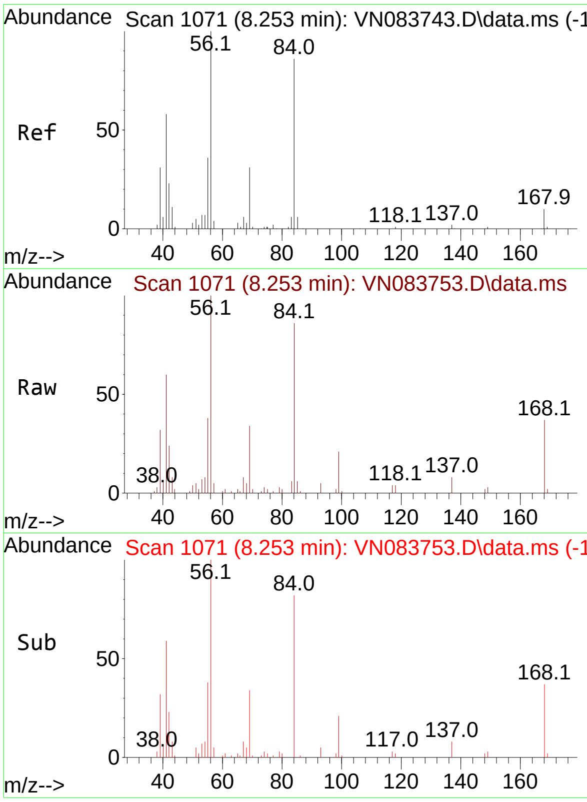
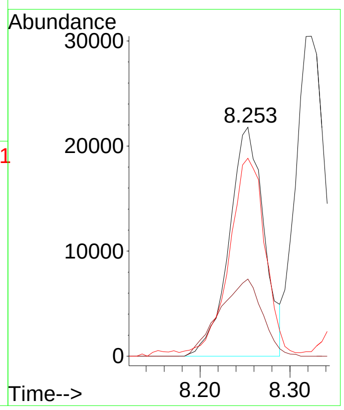
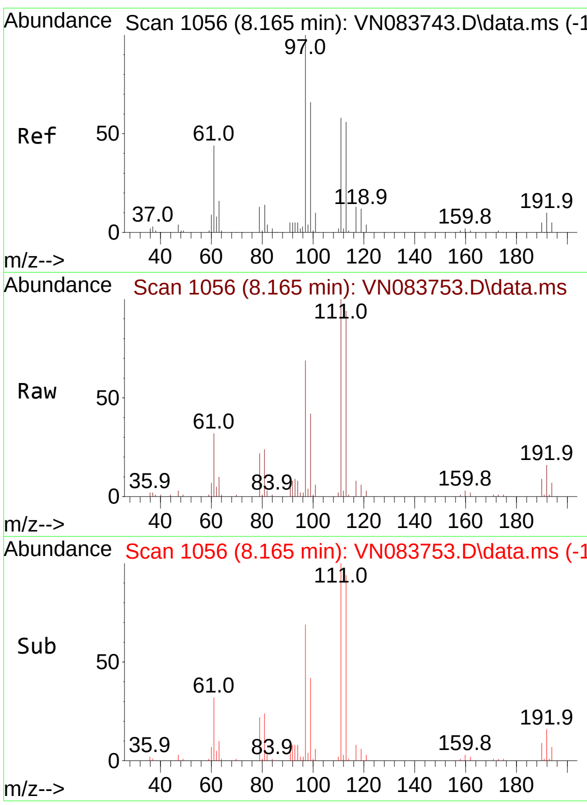



```
#31
Cyclohexane
Concen:   16.611 ug/l
RT:   8.253 min   Scan# 1
Delta R.T.   0.000 min
Lab File:    VN083753.D
Acq: 10 Sep 2024  15:34

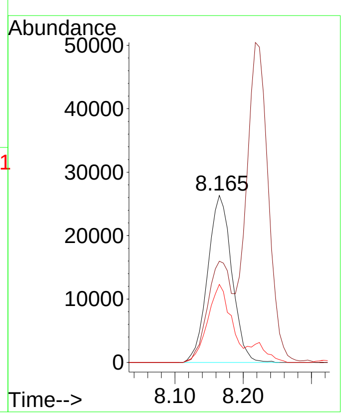
Tgt Ion: 56 Resp:   5877
Ion   Ratio   Lower   Upper
 56   100
 69    33.7    26.9    40.3
 84    84.9    69.2   103.8
```






```
#32
1,1,1-Trichloroethane
Concen:   17.927 ug/l
RT:   8.165 min   Scan# 1056
Delta R.T.   0.000 min
Lab File:    VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion: 97 Resp:   64940
Ion   Ratio   Lower   Upper
 97   100
 99    62.3    52.3    78.5
 61    45.4    38.2    57.2
```



Instrument :
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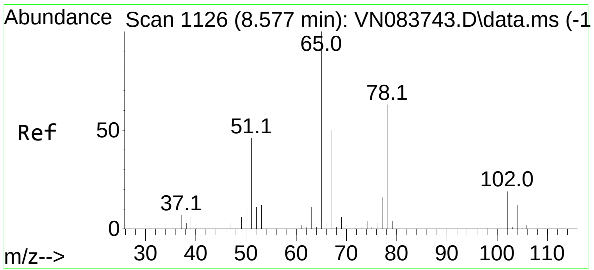
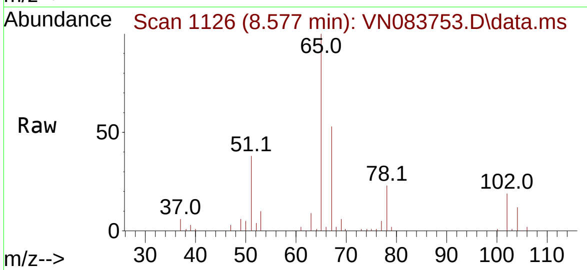
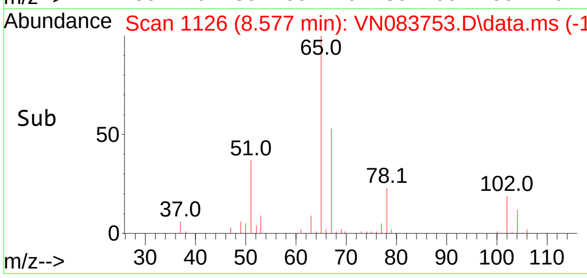
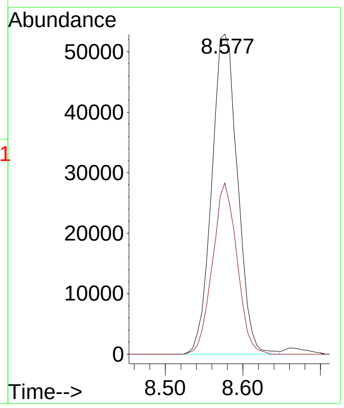


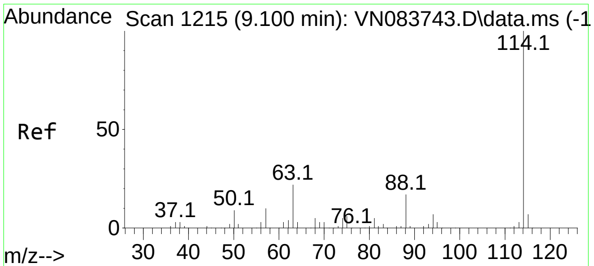


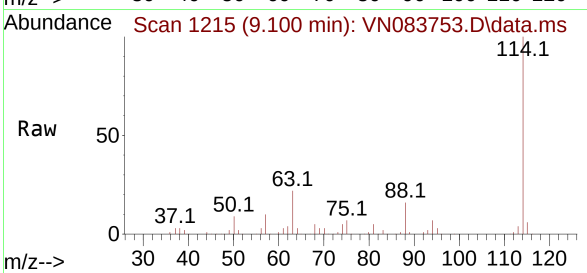


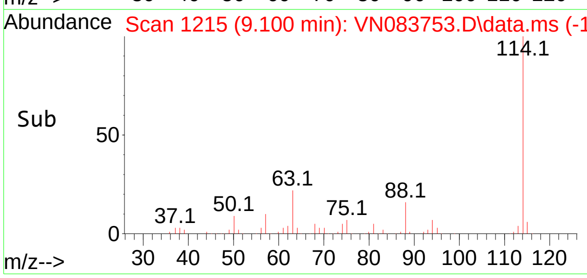

```
#33
1,2-Dichloroethane-d4
Concen:   49.972 ug/l
RT:    8.577 min   Scan# 1
Delta R.T.   0.000 min
Lab File:    VN083753.D
Acq: 10 Sep 2024   15:34

Tgt Ion: 65 Resp:   12233
Ion   Ratio   Lower   Upper
 65   100
 67    50.7     0.0   100.8
```



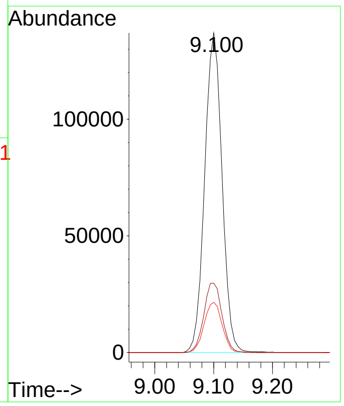







```
#34
1,4-Difluorobenzene
Concen:   50.000 ug/l
RT:    9.100 min   Scan# 1215
Delta R.T.   0.000 min
Lab File:    VN083753.D
Acq: 10 Sep 2024   15:34

Tgt Ion:114 Resp:   280742
Ion   Ratio   Lower   Upper
114   100
 63    21.7     0.0    43.4
 88    15.7     0.0    32.6
```



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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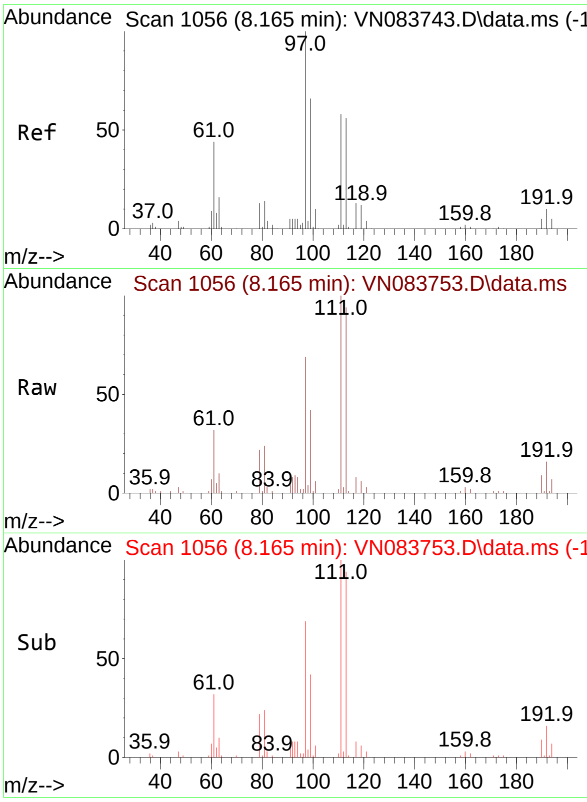
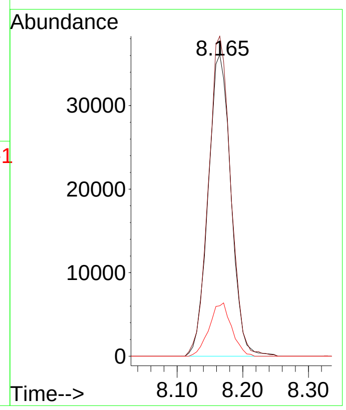
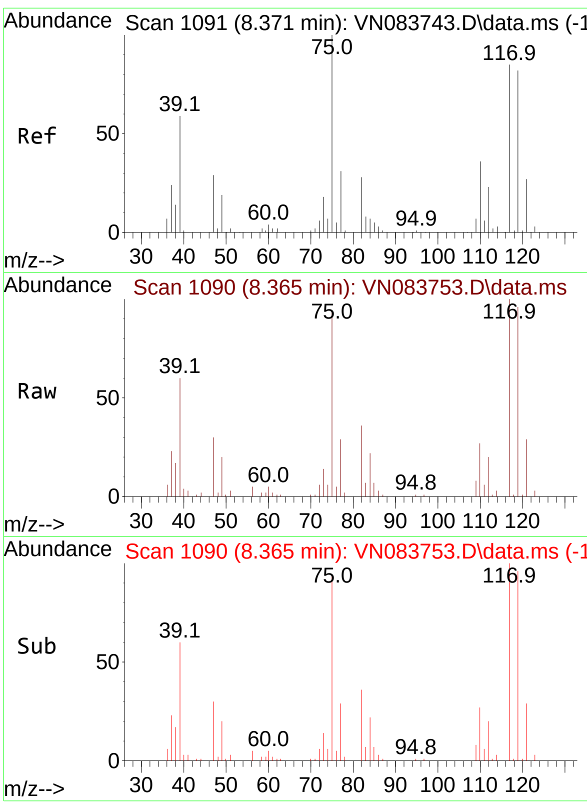


#35
Dibromofluoromethane
Concen: 48.333 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:113 Resp: 8686

Ion	Ratio	Lower	Upper
113	100		
111	104.1	82.6	124.0
192	17.4	14.3	21.5

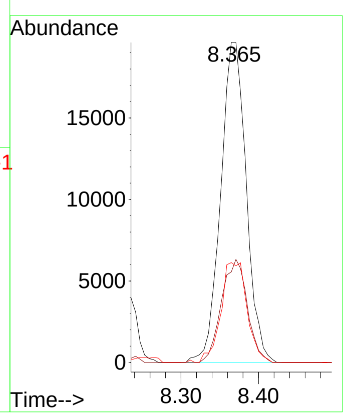


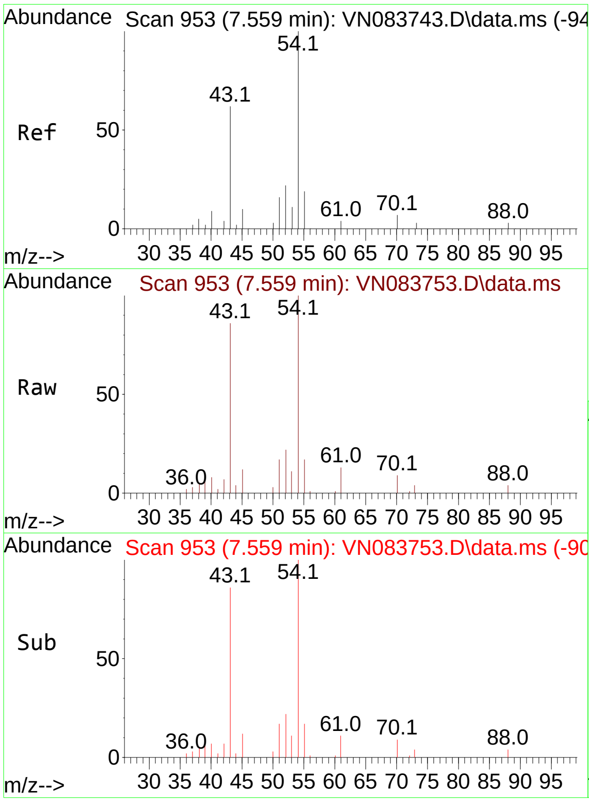


#36
1,1-Dichloropropene
Concen: 16.674 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 75 Resp: 45106

Ion	Ratio	Lower	Upper
75	100		
110	32.5	16.7	50.1
77	32.1	25.2	37.8





#37
Ethyl Acetate
Concen: 18.662 ug/l
RT: 7.559 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 43 Resp: 45824

Ion	Ratio	Lower	Upper
43	100		
61	13.8	11.1	16.7
70	10.5	8.8	13.2

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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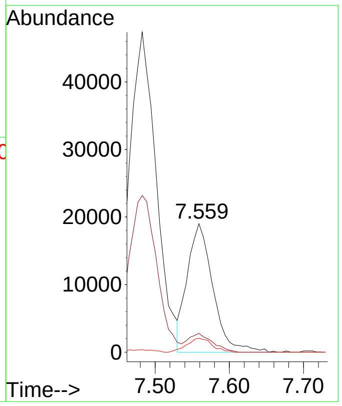
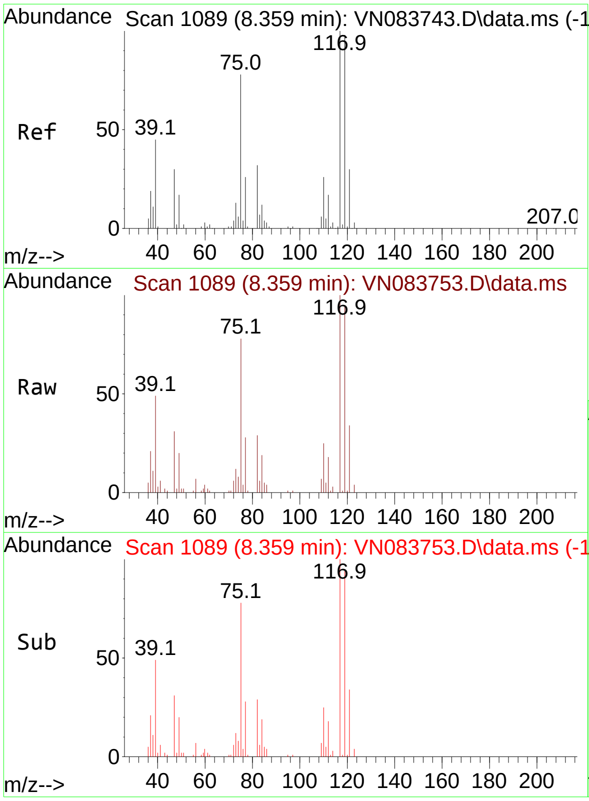
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

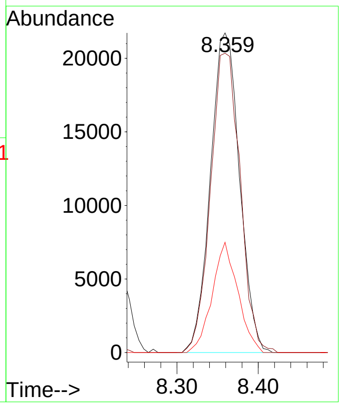




#38
Carbon Tetrachloride
Concen: 17.655 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:117 Resp: 54184

Ion	Ratio	Lower	Upper
117	100		
119	93.7	76.1	114.1
121	34.5	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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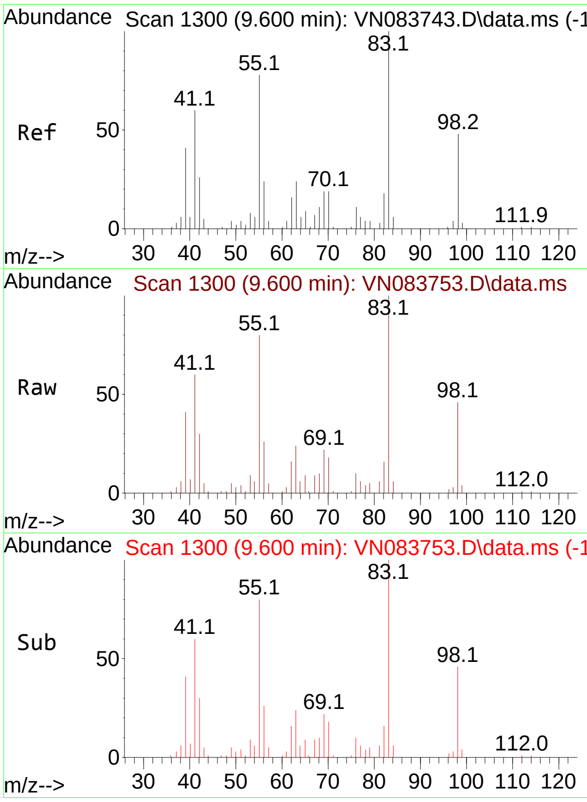
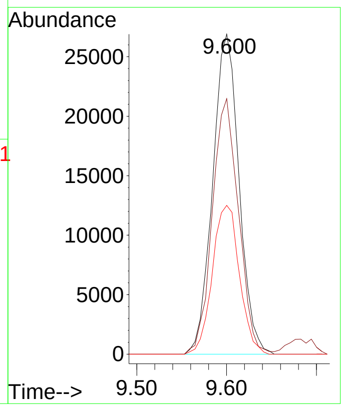
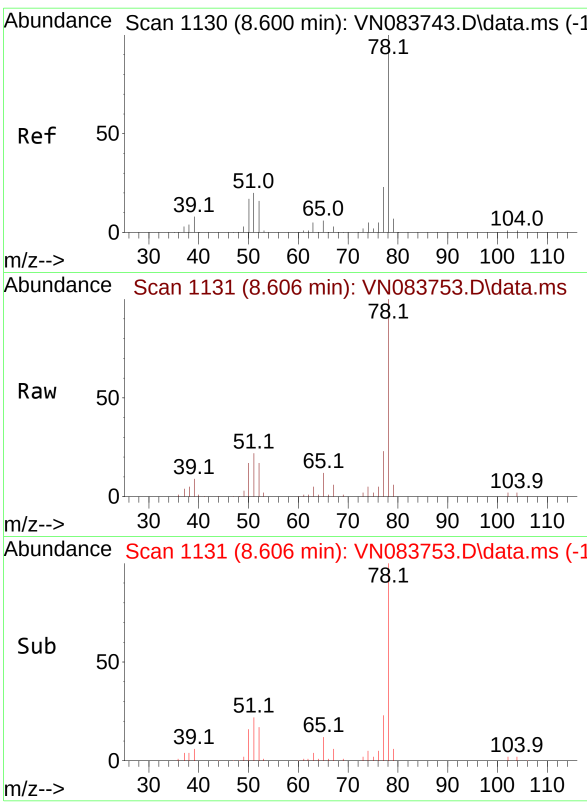


#39
Methylcyclohexane
Concen: 17.846 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 83 Resp: 5495

Ion	Ratio	Lower	Upper
83	100		
55	79.9	62.2	93.4
98	46.5	37.6	56.4

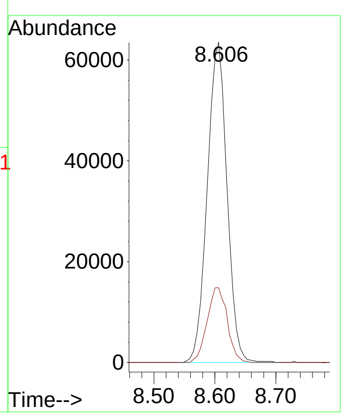




#40
Benzene
Concen: 17.539 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 78 Resp: 142807

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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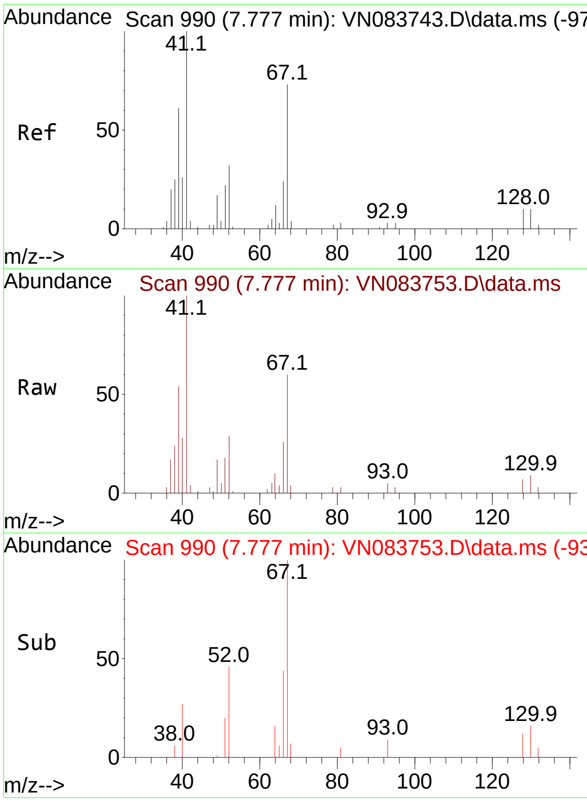
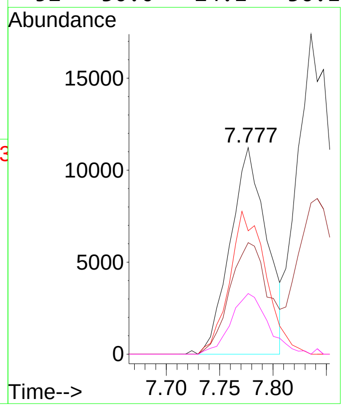
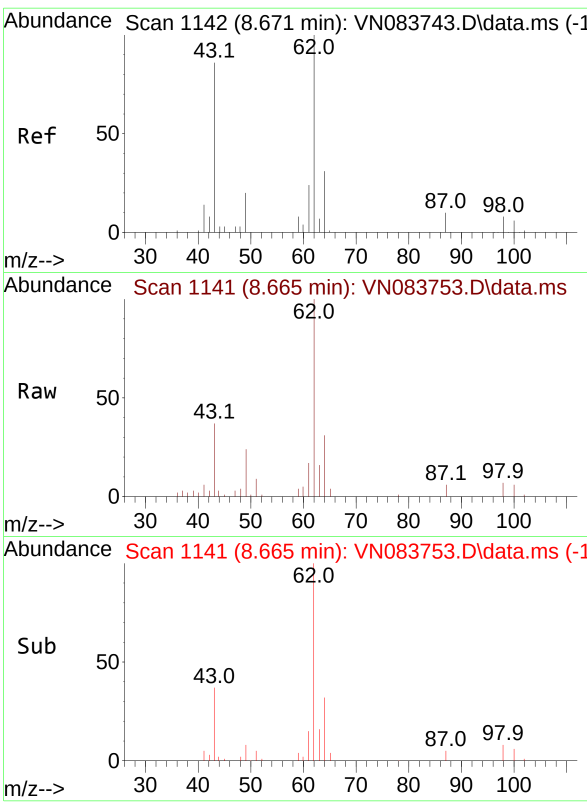



```
#41
Methacrylonitrile
Concen:   18.306 ug/l
RT:    7.777 min   Scan# 99
Delta R.T.   0.000 min
Lab File:    VN083753.D
Acq: 10 Sep 2024   15:34

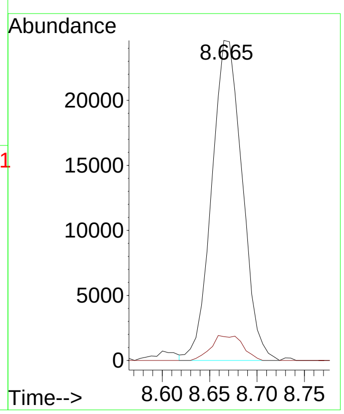
Tgt Ion: 41 Resp:    2658
Ion   Ratio   Lower   Upper
 41   100
 39    57.2    45.4    68.2
 67    69.8    55.9    83.9
 52    30.0    24.1    36.1
```






```
#42
1,2-Dichloroethane
Concen:   18.125 ug/l
RT:    8.665 min   Scan# 1141
Delta R.T.   -0.006 min
Lab File:    VN083753.D
Acq: 10 Sep 2024   15:34

Tgt Ion: 62 Resp:    55145
Ion   Ratio   Lower   Upper
 62   100
 98     8.1     0.0    16.6
```



Instrument : MSVOA_N
ClientSampleId : VN0910WBS01

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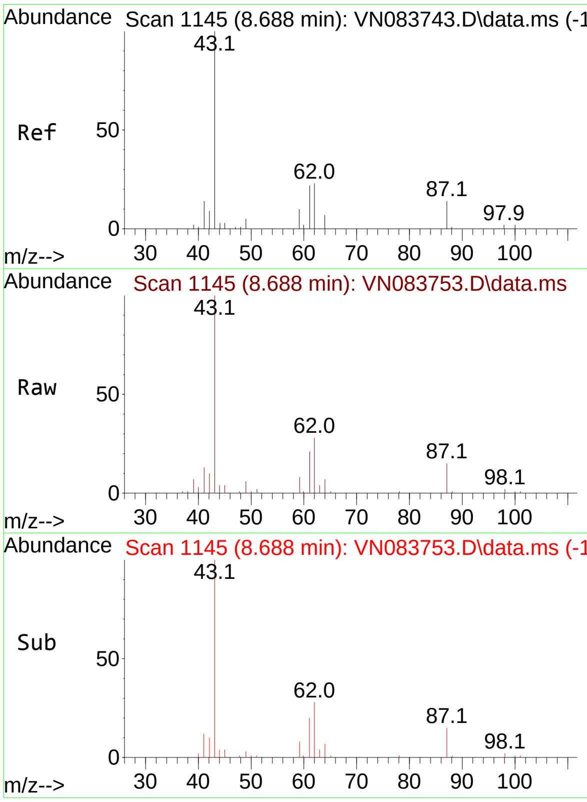
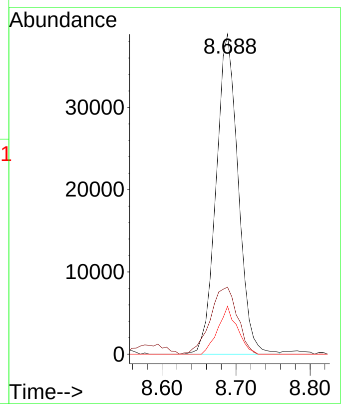
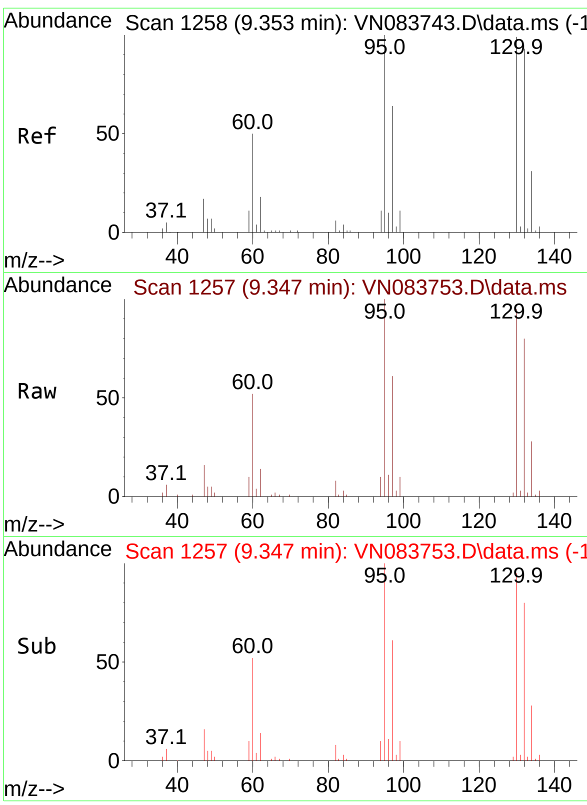


#43
Isopropyl Acetate
Concen: 18.097 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 43 Resp: 8052

Ion	Ratio	Lower	Upper
43	100		
61	25.8	19.4	29.0
87	13.2	9.8	14.6

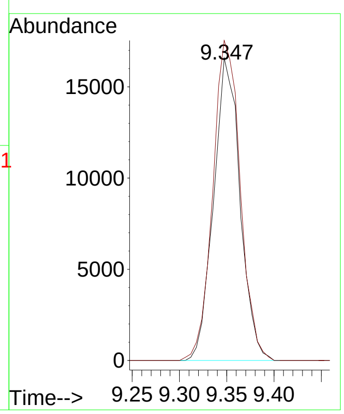




#44
Trichloroethene
Concen: 17.105 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:130 Resp: 32252

Ion	Ratio	Lower	Upper
130	100		
95	105.8	0.0	200.4



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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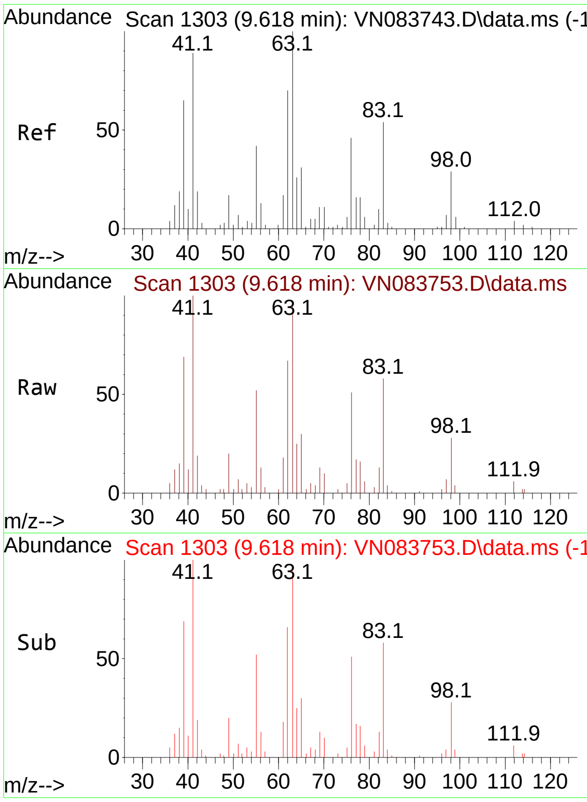
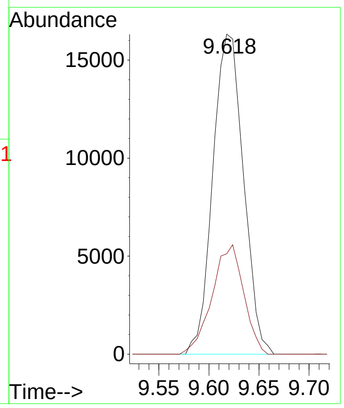
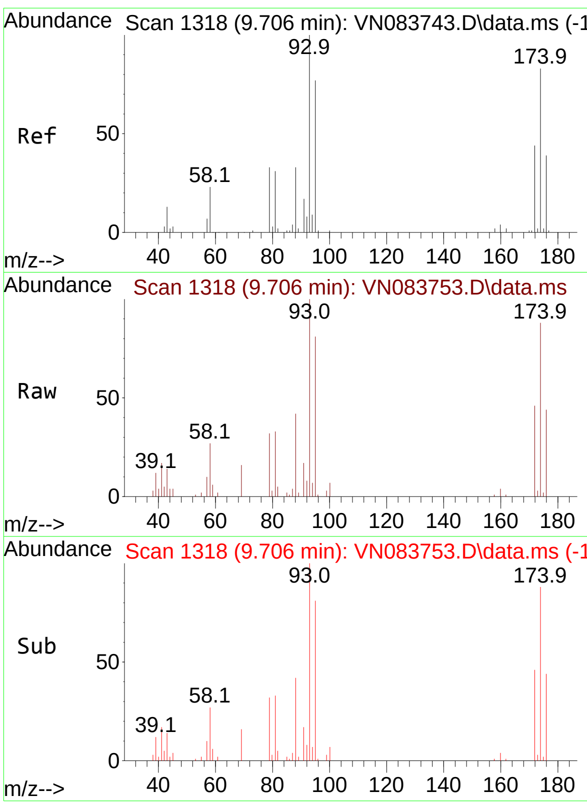



```
#45
1,2-Dichloropropane
Concen:   17.632 ug/l
RT:    9.618 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

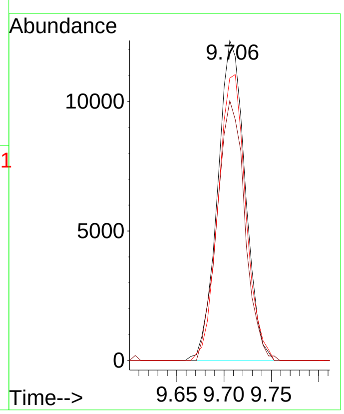
Tgt Ion: 63 Resp:   34698
Ion  Ratio  Lower  Upper
 63  100
 65   31.4   25.9   38.9
```






```
#46
Dibromomethane
Concen:   18.147 ug/l
RT:    9.706 min  Scan# 1318
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion: 93 Resp:   25014
Ion  Ratio  Lower  Upper
 93  100
 95   82.1   65.3   97.9
174   89.8   71.0  106.4
```



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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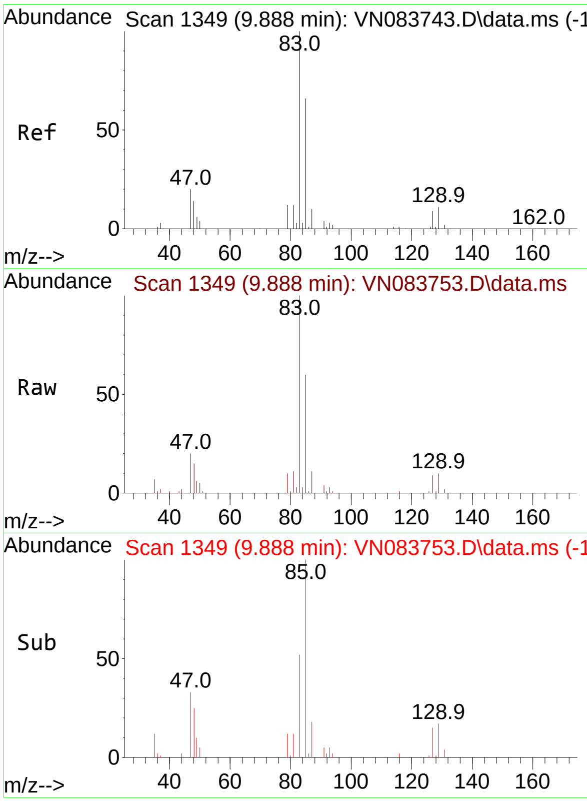
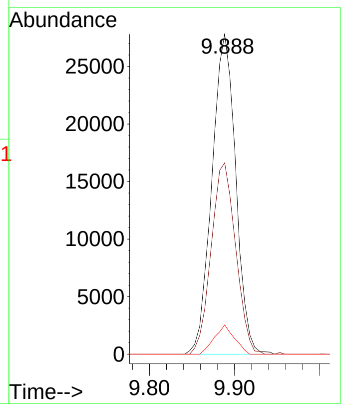
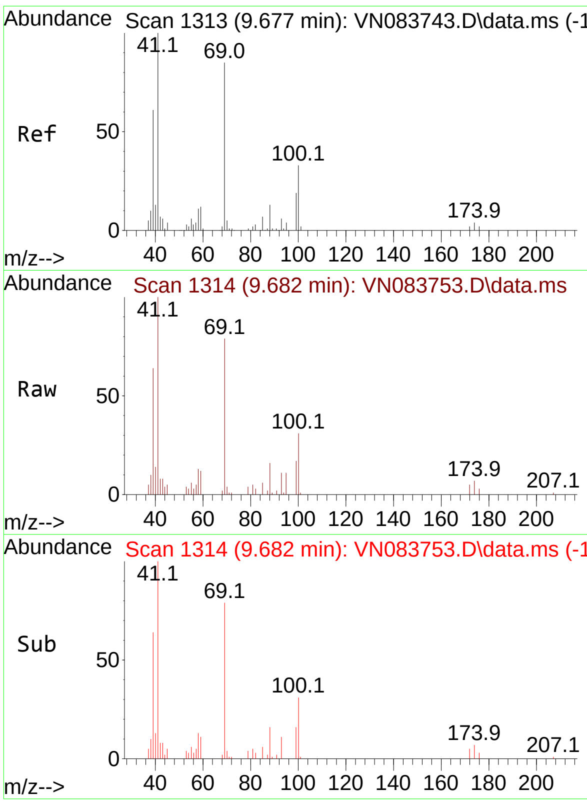


#47
Bromodichloromethane
Concen: 18.140 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 83 Resp: 5411

Ion	Ratio	Lower	Upper
83	100		
85	59.8	51.8	77.8
127	9.1	6.6	9.8

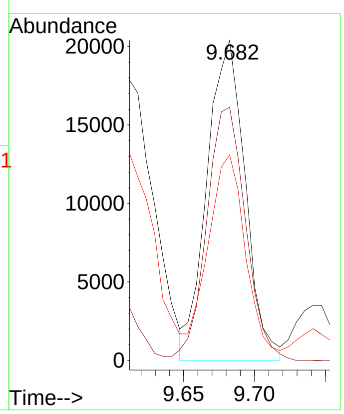


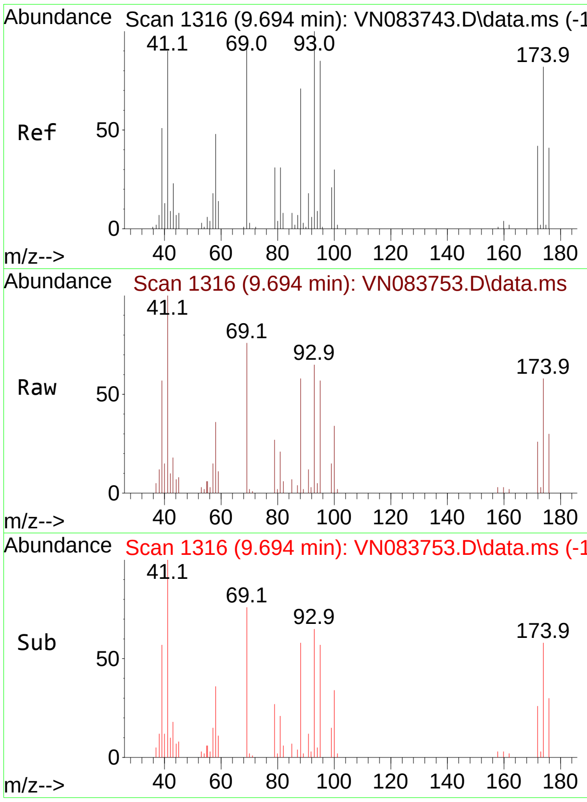


#48
Methyl methacrylate
Concen: 18.102 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 41 Resp: 38216

Ion	Ratio	Lower	Upper
41	100		
69	80.4	64.3	96.5
39	64.5	48.9	73.3





#49
1,4-Dioxane
Concen: 369.924 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 88 Resp: 1284

Ion	Ratio	Lower	Upper
88	100		
43	32.1	0.0	0.0#
58	71.6	57.1	85.7

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
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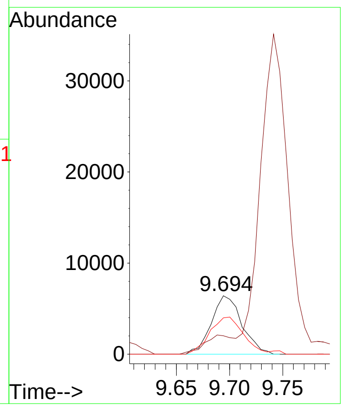
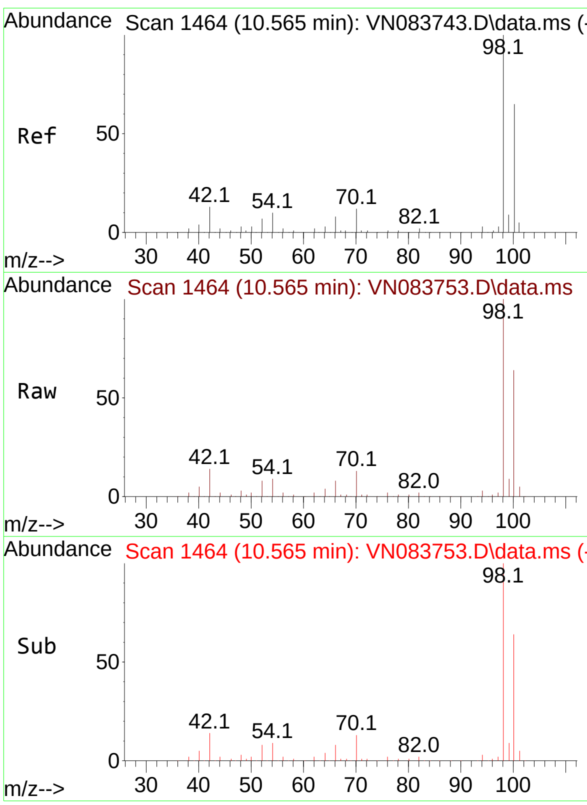
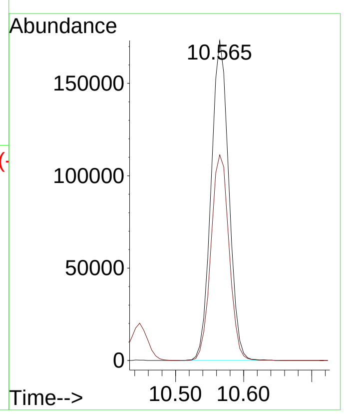




#50
Toluene-d8
Concen: 50.774 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 98 Resp: 315474

Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.0	78.0



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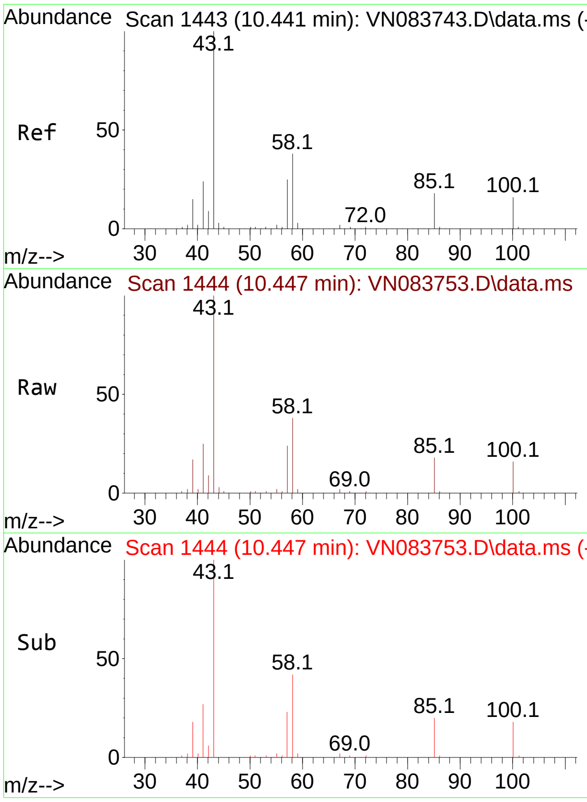

#51
4-Methyl-2-Pentanone
Concen: 94.333 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 43 Resp: 22849

Ion	Ratio	Lower	Upper
43	100		
58	38.4	31.6	47.4

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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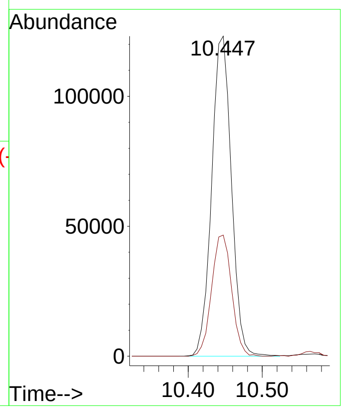

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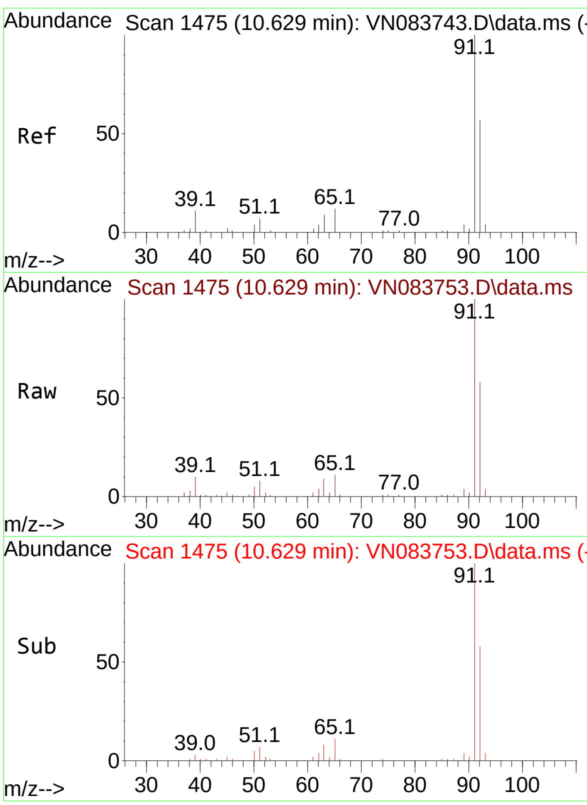
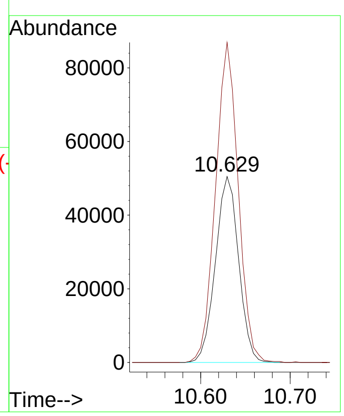
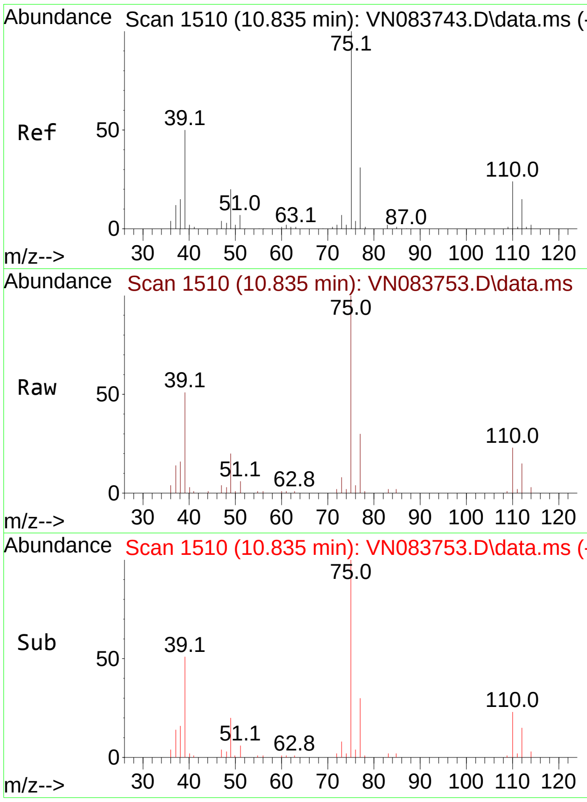


#52
Toluene
Concen: 18.223 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 92 Resp: 90757

Ion	Ratio	Lower	Upper
92	100		
91	168.5	134.7	202.1





#53
t-1,3-Dichloropropene
Concen: 17.505 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 75 Resp: 5293

Ion	Ratio	Lower	Upper
75	100		
77	29.9	25.8	38.6

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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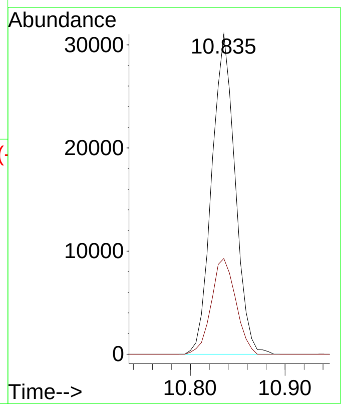
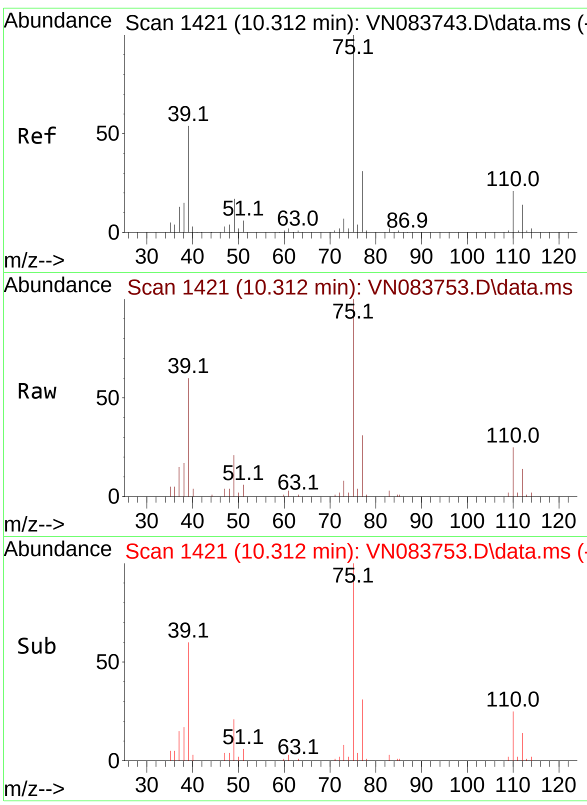
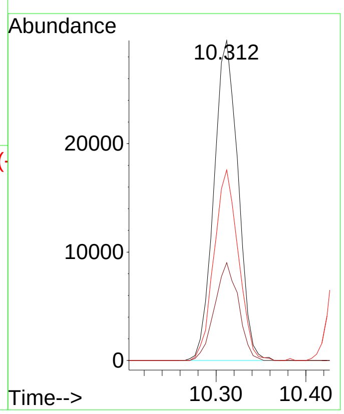




#54
cis-1,3-Dichloropropene
Concen: 17.375 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 75 Resp: 55186

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.0	37.6
39	59.6	42.6	64.0



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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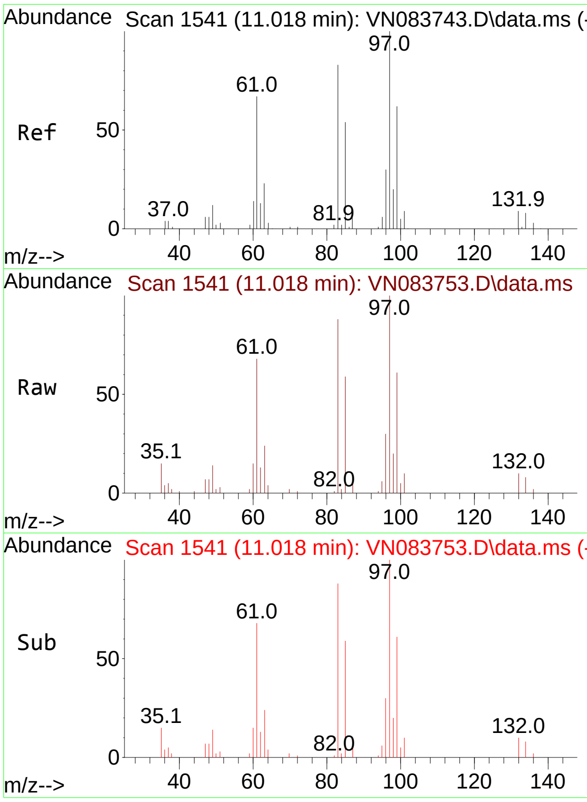
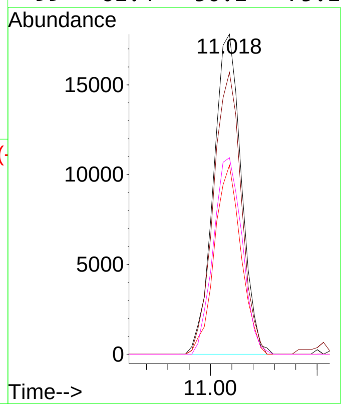
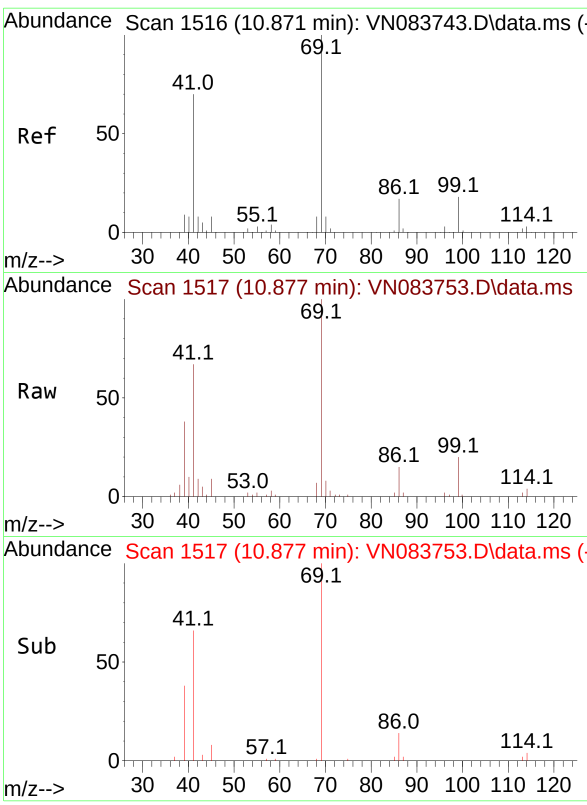


#55
1,1,2-Trichloroethane
Concen: 17.424 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 97 Resp: 3239

Ion	Ratio	Lower	Upper
97	100		
83	88.0	67.5	101.3
85	59.1	44.2	66.2
99	61.4	50.1	75.1

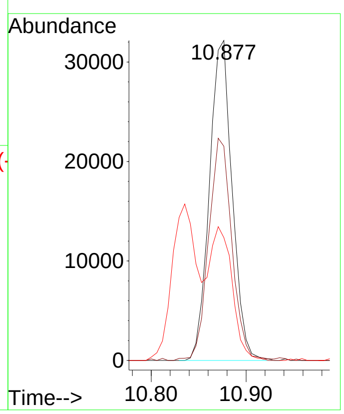




#56
Ethyl methacrylate
Concen: 18.805 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 69 Resp: 53795

Ion	Ratio	Lower	Upper
69	100		
41	71.0	53.9	80.9
39	43.1	32.6	48.8



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument : MSVOA_N
ClientSampleId : VN0910WBS01

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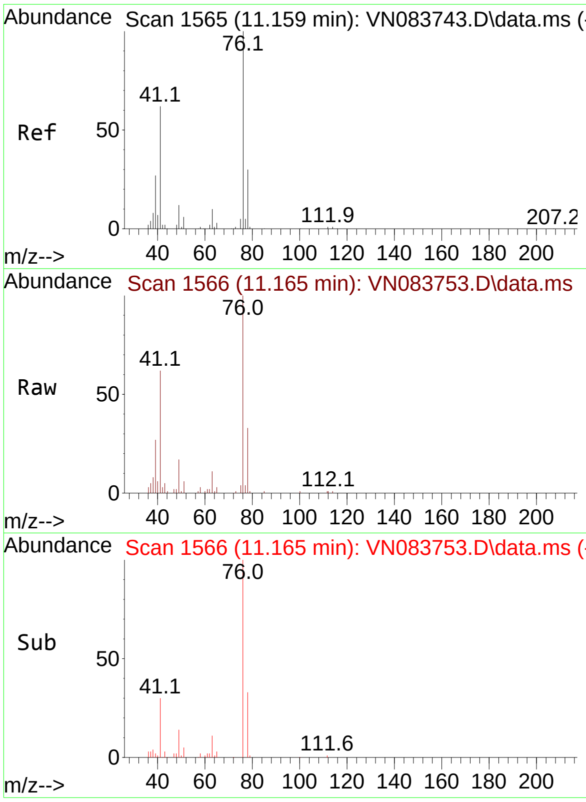
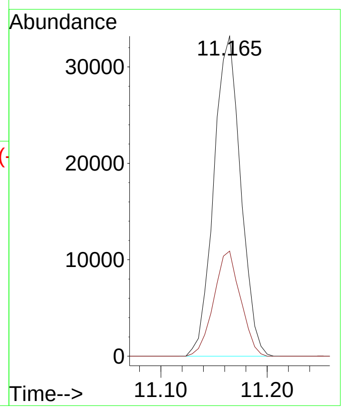
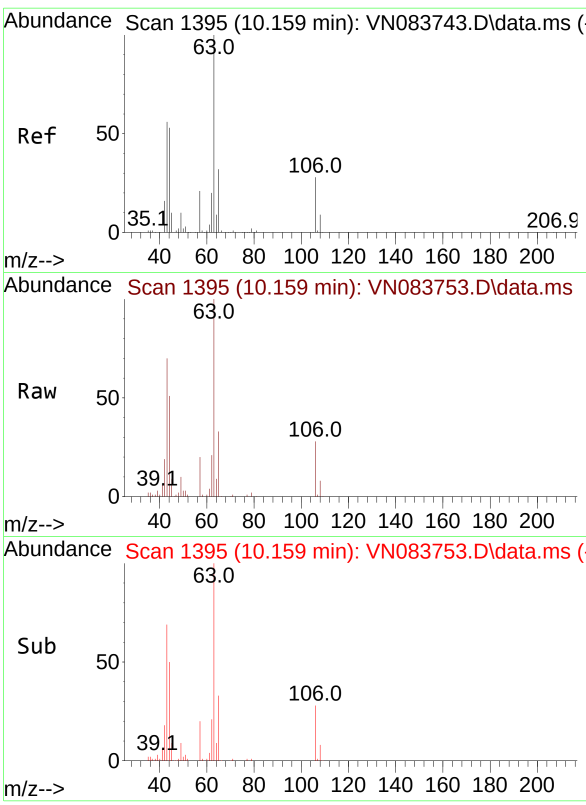



```
#57
1,3-Dichloropropane
Concen:   18.251 ug/l
RT:  11.165 min  Scan# 1!
Delta R.T.  0.006 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

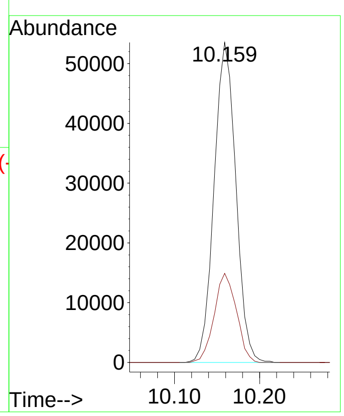
Tgt Ion: 76 Resp:   58321
Ion  Ratio  Lower  Upper
 76  100
 78   32.6   25.8   38.6
```






```
#58
2-Chloroethyl Vinyl ether
Concen:   92.540 ug/l
RT:  10.159 min  Scan# 1395
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion: 63 Resp:   95385
Ion  Ratio  Lower  Upper
 63  100
106   28.4   23.3   34.9
```



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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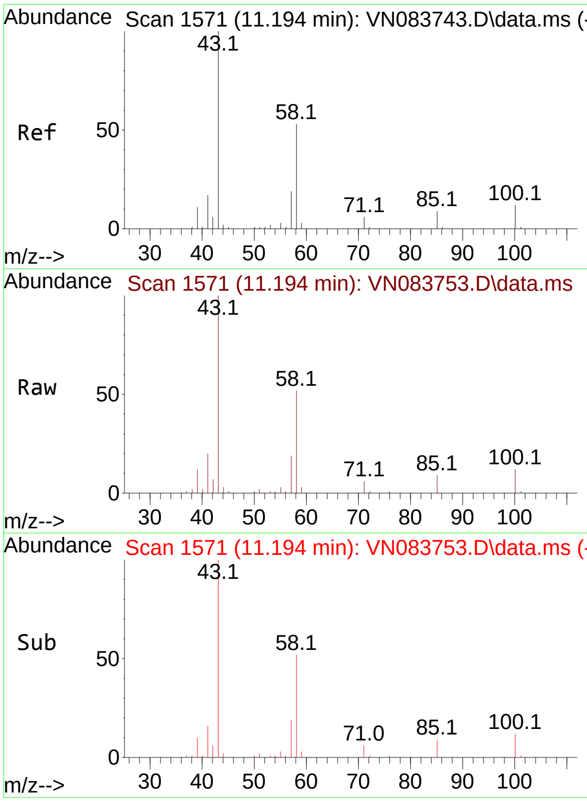
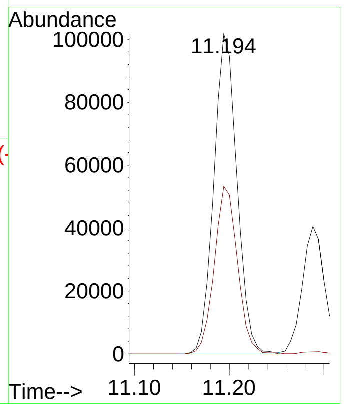
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

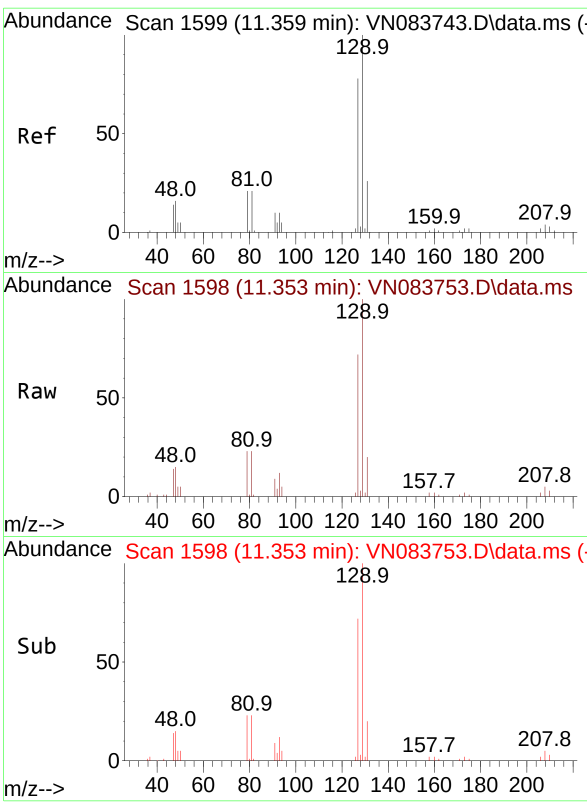


#59
2-Hexanone
Concen: 96.637 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 43 Resp: 17314

Ion	Ratio	Lower	Upper
43	100		
58	52.4	27.2	81.5

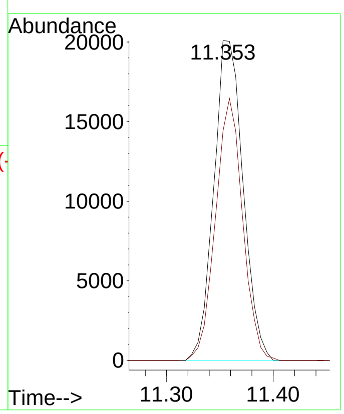


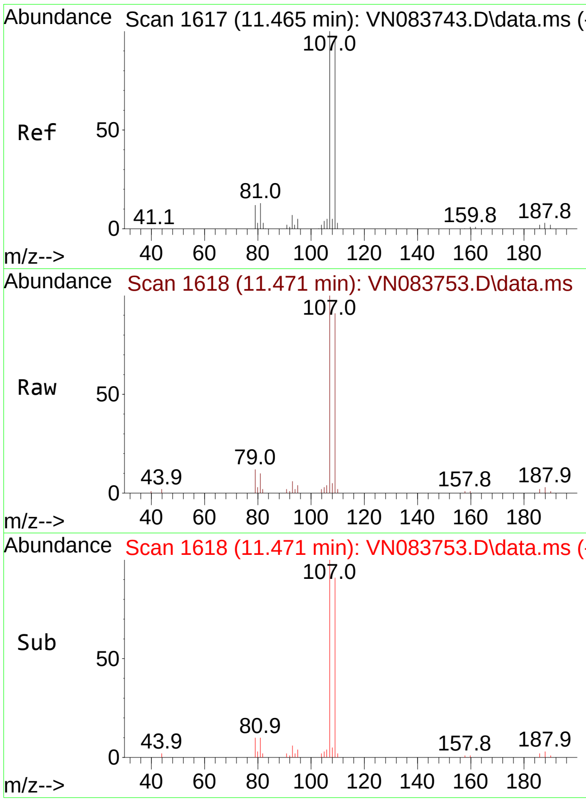


#60
Dibromochloromethane
Concen: 18.454 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:129 Resp: 38399

Ion	Ratio	Lower	Upper
129	100		
127	75.7	39.0	116.9






```
#61
1,2-Dibromoethane
Concen:   18.250 ug/l
RT:  11.471 min  Scan# 1
Delta R.T.  0.006 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion:107 Resp:   3384
Ion  Ratio  Lower  Upper
107  100
109   93.0   75.6  113.4
```

Instrument :
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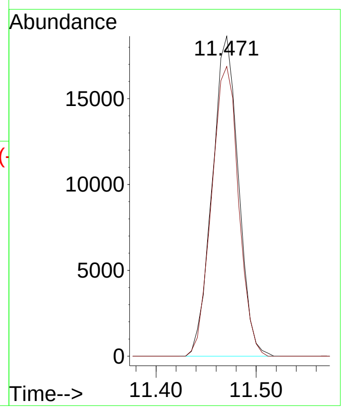
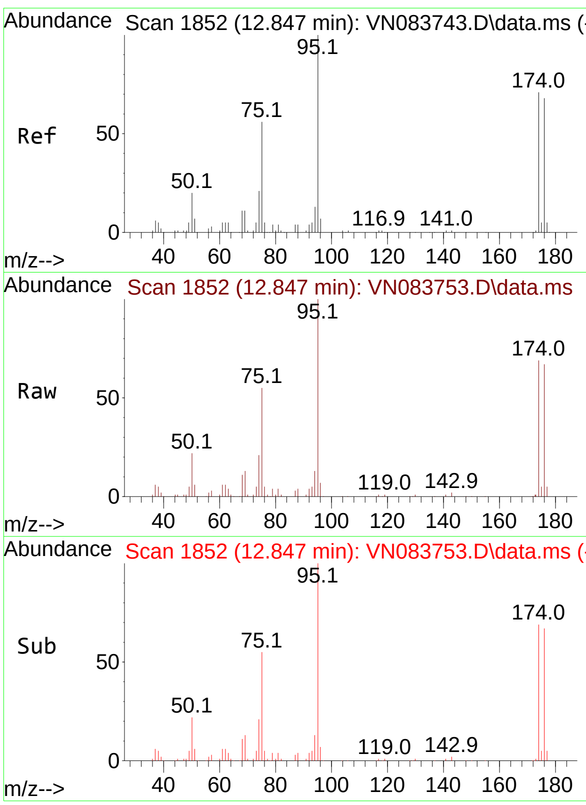
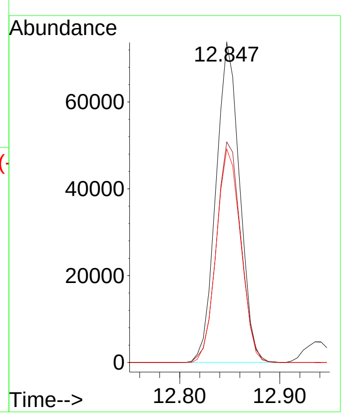


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#62
4-Bromofluorobenzene
Concen:   47.270 ug/l
RT:  12.847 min  Scan# 1852
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion: 95 Resp:   121173
Ion  Ratio  Lower  Upper
 95  100
174   71.2    0.0  139.8
176   68.7    0.0  131.4
```



Instrument :
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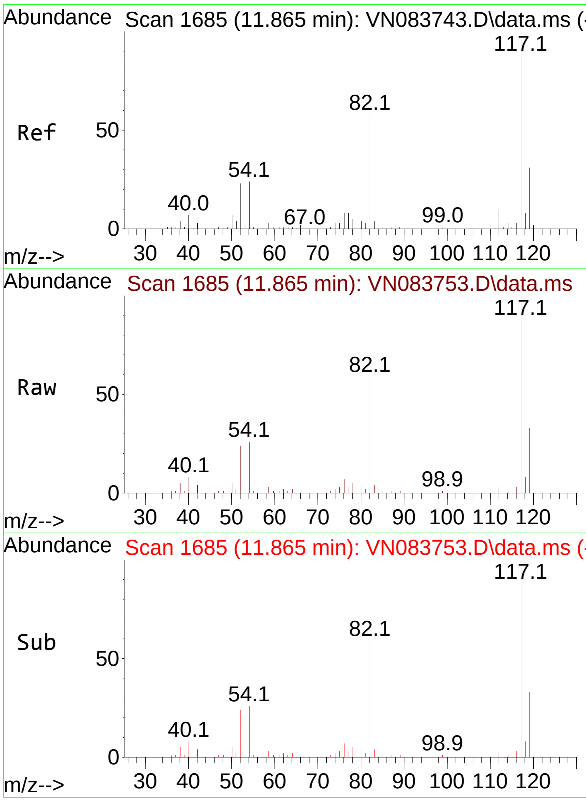
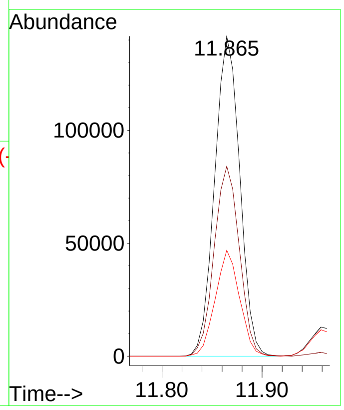
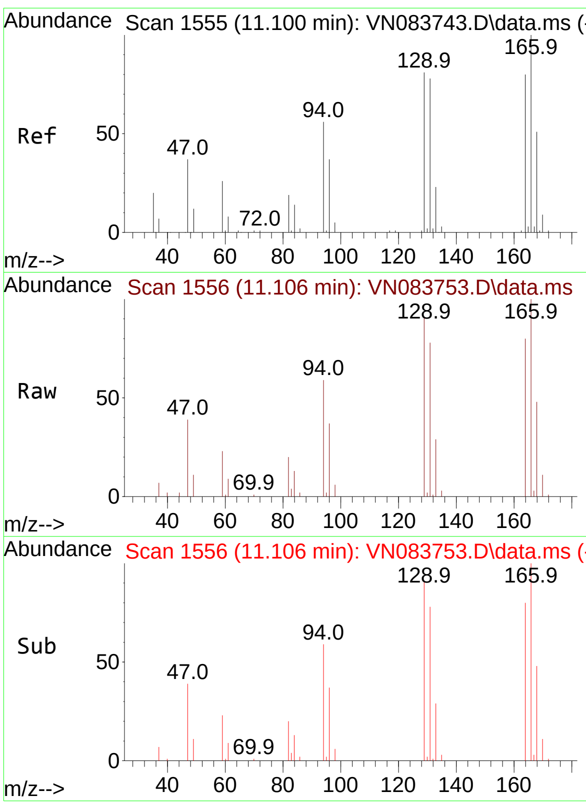



```
#63
Chlorobenzene-d5
Concen:   50.000 ug/l
RT:  11.865 min   Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

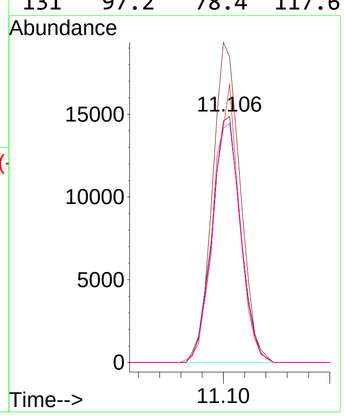
Tgt Ion:117 Resp:  24704
Ion  Ratio  Lower  Upper
117  100
 82   59.4   47.4   71.0
119   33.1   26.3   39.5
```






```
#64
Tetrachloroethene
Concen:   16.902 ug/l
RT:  11.106 min   Scan# 1556
Delta R.T.  0.006 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion:164 Resp:   27769
Ion  Ratio  Lower  Upper
164  100
166  124.2  103.7  155.5
129  112.9   79.9  119.9
131   97.2   78.4  117.6
```



Instrument :
MSVOA_N
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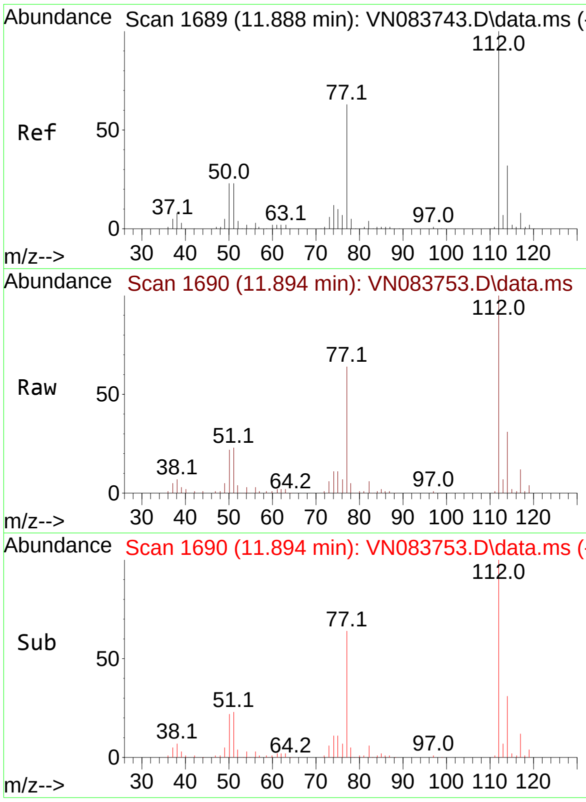
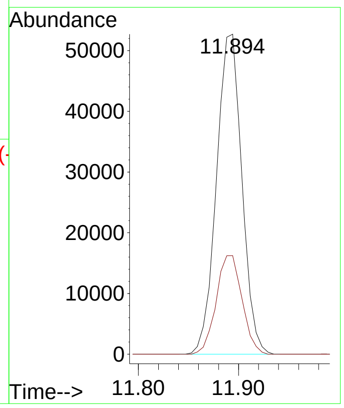
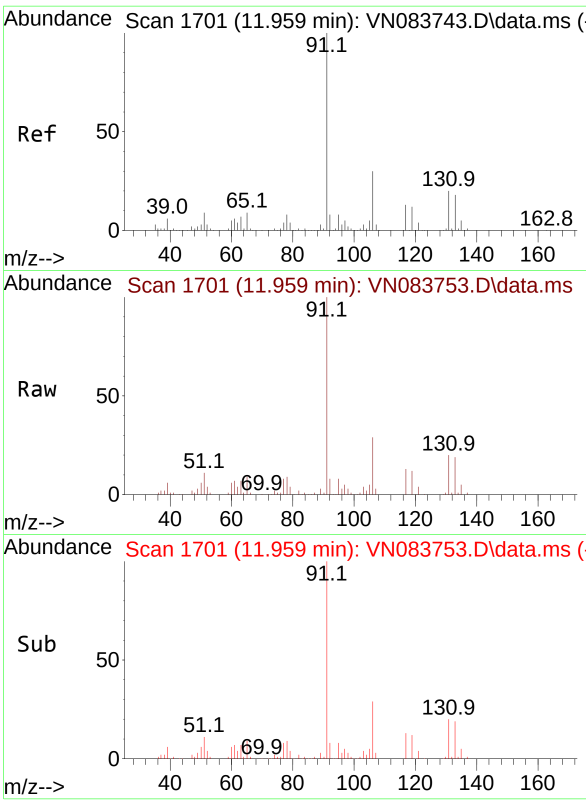


#65
Chlorobenzene
Concen: 16.934 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:112 Resp: 9298

Ion	Ratio	Lower	Upper
112	100		
114	30.8	25.7	38.5

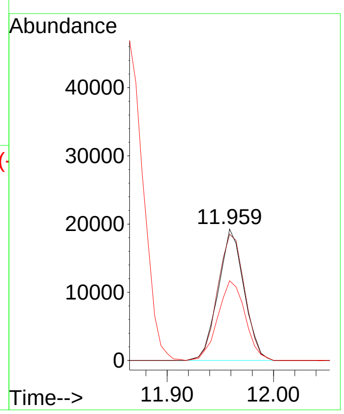




#66
1,1,1,2-Tetrachloroethane
Concen: 17.048 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:131 Resp: 32451

Ion	Ratio	Lower	Upper
131	100		
133	101.0	47.5	142.6
119	64.2	31.6	94.8



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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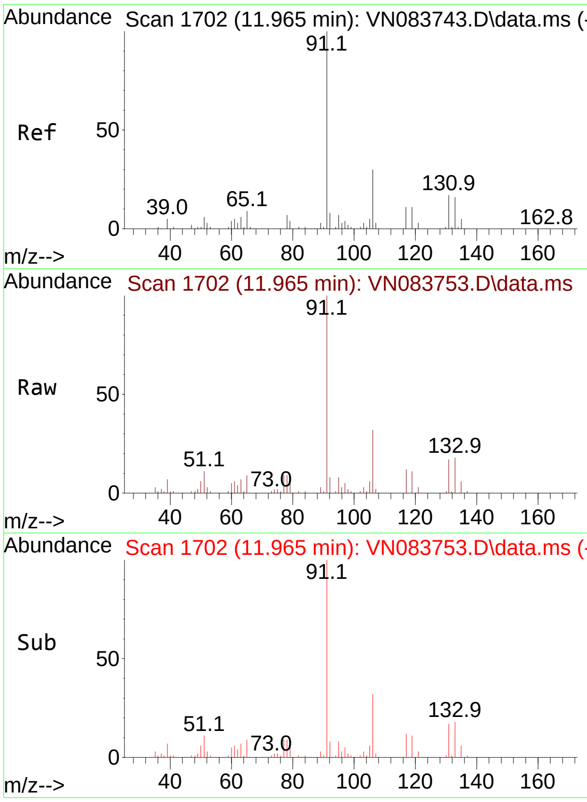
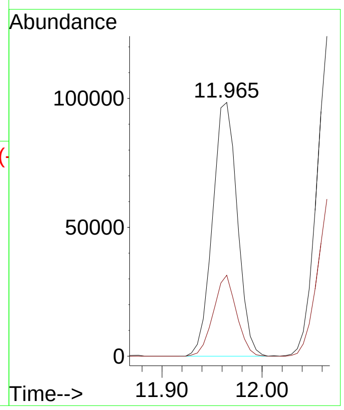
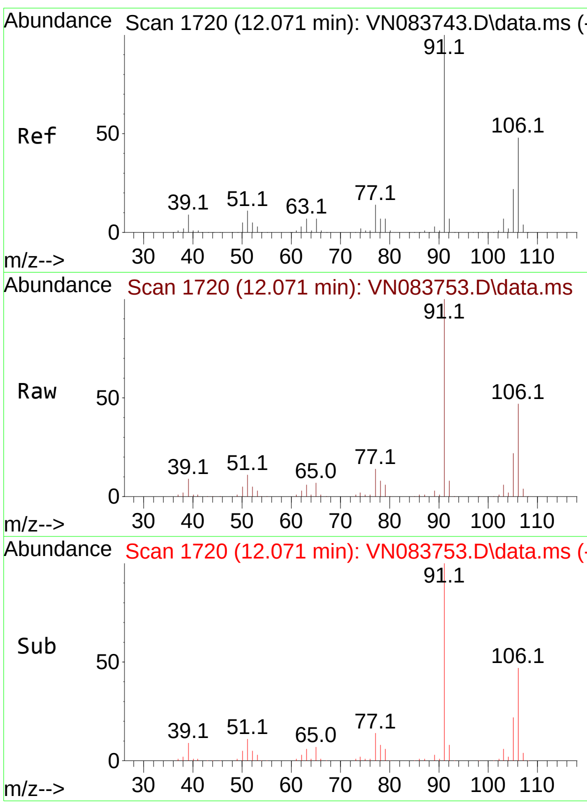


#67
Ethyl Benzene
Concen: 17.409 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 91 Resp: 169809

Ion	Ratio	Lower	Upper
91	100		
106	31.9	24.3	36.5

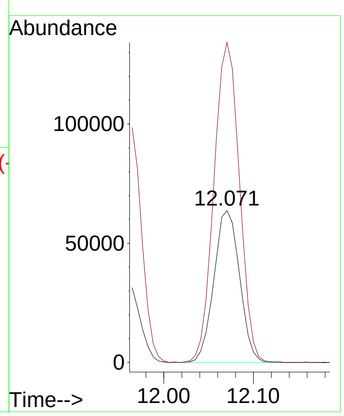




#68
m/p-Xylenes
Concen: 34.947 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:106 Resp: 126551

Ion	Ratio	Lower	Upper
106	100		
91	209.8	169.2	253.8



Instrument :
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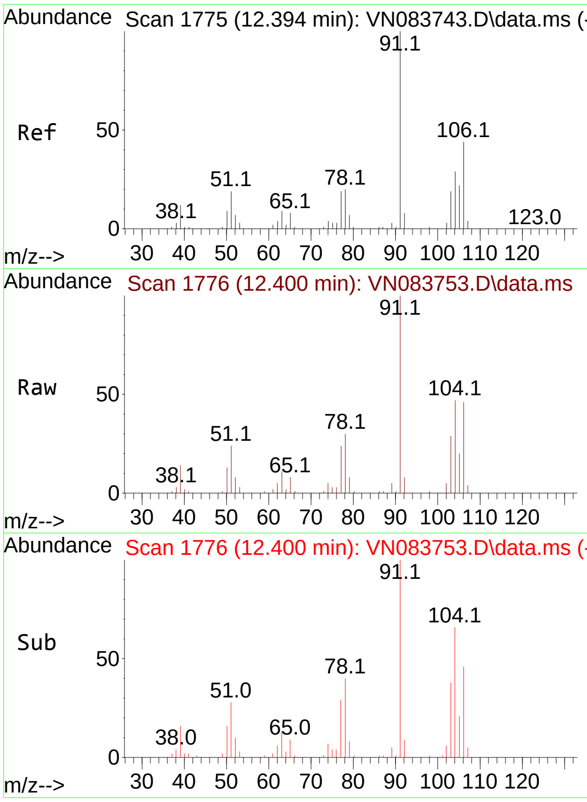
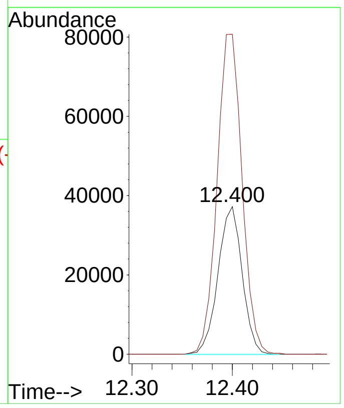
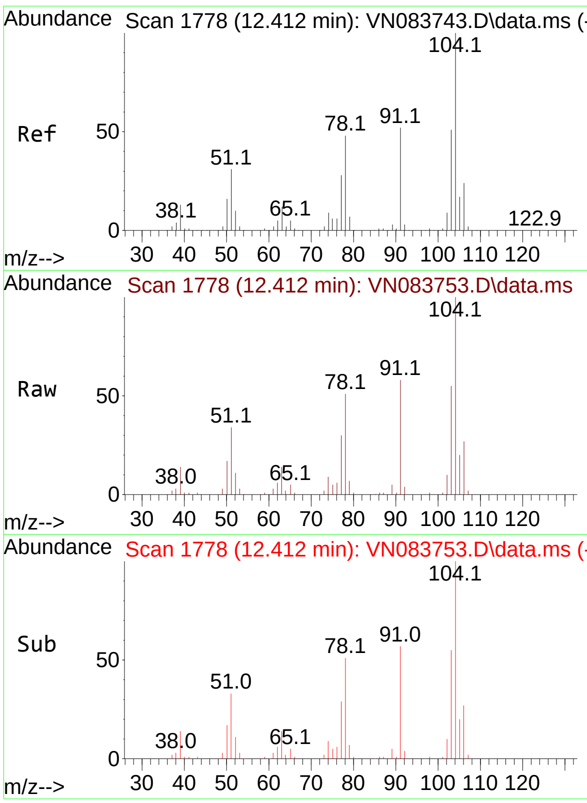



```
#69
o-Xylene
Concen:    17.715 ug/l
RT:  12.400 min  Scan# 1
Delta R.T.  0.006 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

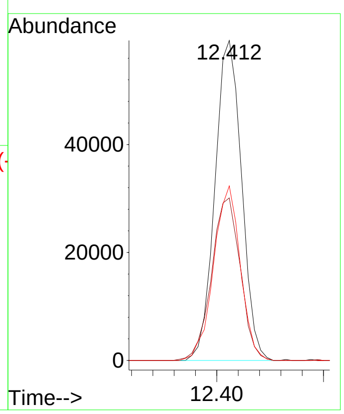
Tgt Ion:106 Resp:   6210
Ion  Ratio  Lower  Upper
106  100
 91  224.4  112.9  338.6
```

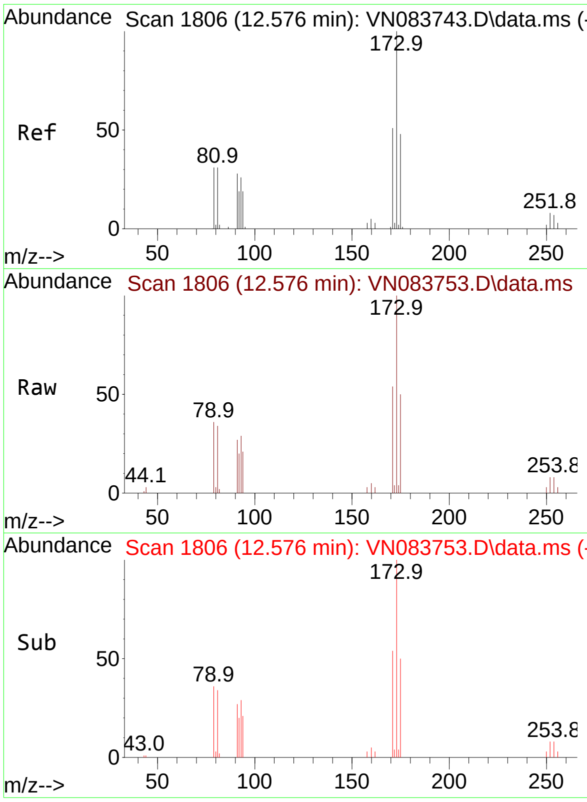





```
#70
Styrene
Concen:    17.906 ug/l
RT:  12.412 min  Scan# 1778
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion:104 Resp:   103019
Ion  Ratio  Lower  Upper
104  100
 78   54.7   43.3   64.9
103   54.8   43.4   65.2
```





#71
Bromoform
Concen: 18.457 ug/l
RT: 12.576 min   Scan# 1
Delta R.T.   0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024   15:34

Tgt Ion:173 Resp: 2367

Ion	Ratio	Lower	Upper
173	100		
175	46.5	24.1	72.2
254	0.0	0.0	0.0

Instrument :
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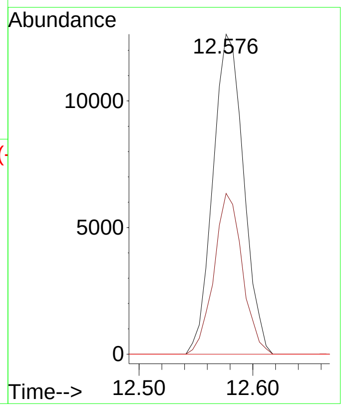
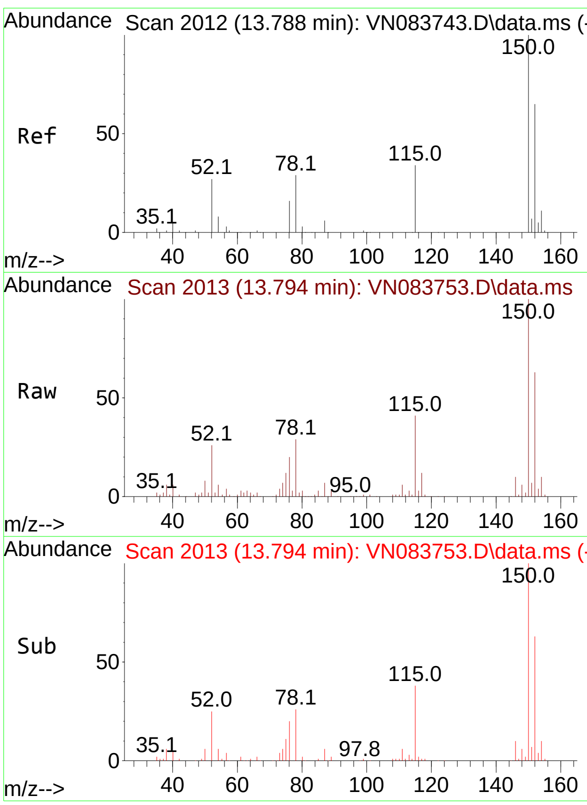
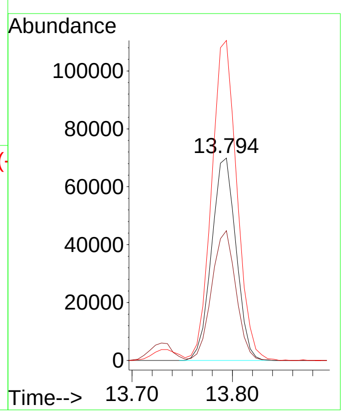




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min   Scan# 2013
Delta R.T.   0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024   15:34

Tgt Ion:152 Resp: 118496

Ion	Ratio	Lower	Upper
152	100		
115	63.5	32.2	96.6
150	163.3	0.0	348.6



Instrument :
MSVOA_N
ClientSampleId :
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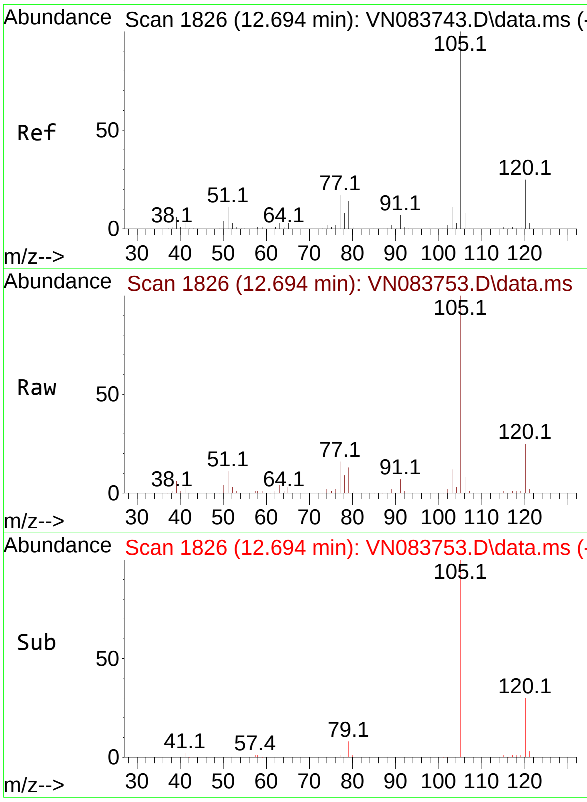
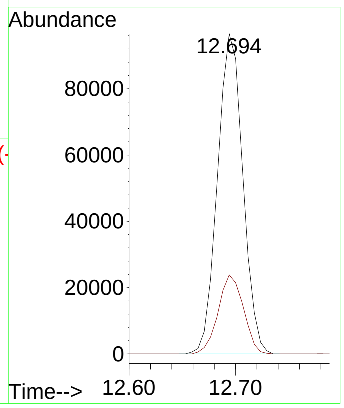
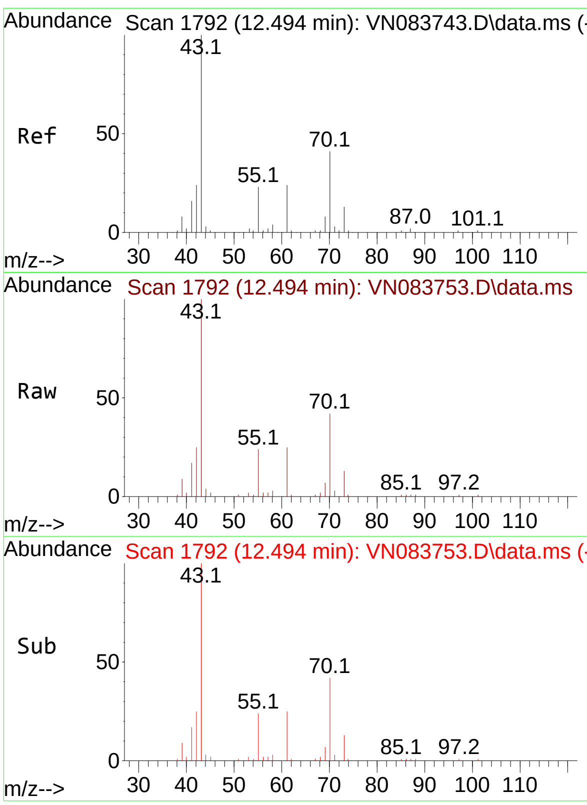


#73
Isopropylbenzene
Concen: 17.415 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:105 Resp: 15965

Ion	Ratio	Lower	Upper
105	100		
120	24.6	12.6	37.8

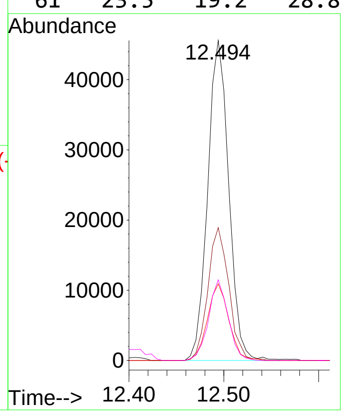




#74
N-amyl acetate
Concen: 17.977 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 43 Resp: 70315

Ion	Ratio	Lower	Upper
43	100		
70	41.4	34.5	51.7
55	24.2	18.6	28.0
61	23.5	19.2	28.8



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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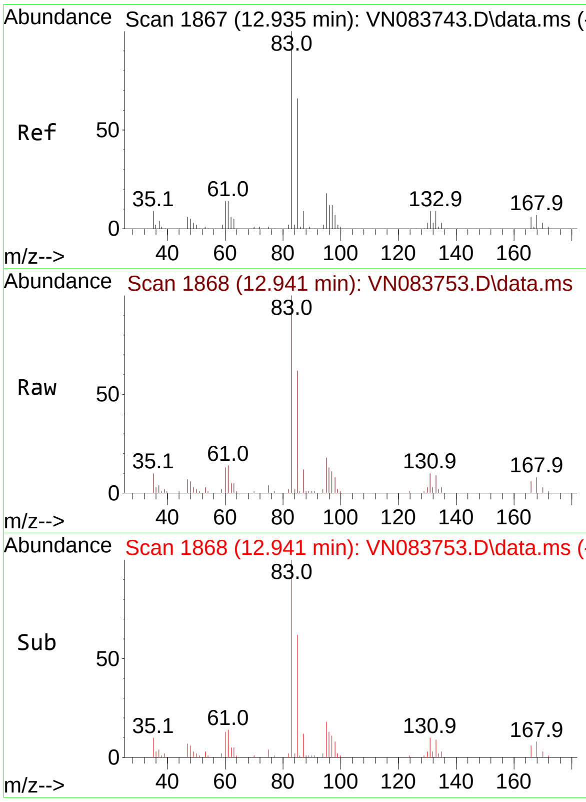
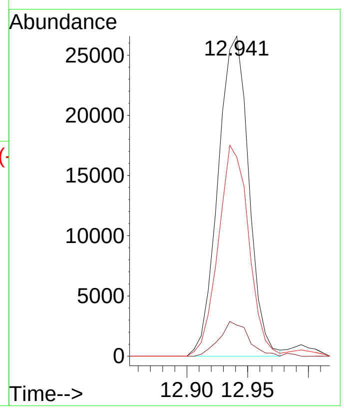
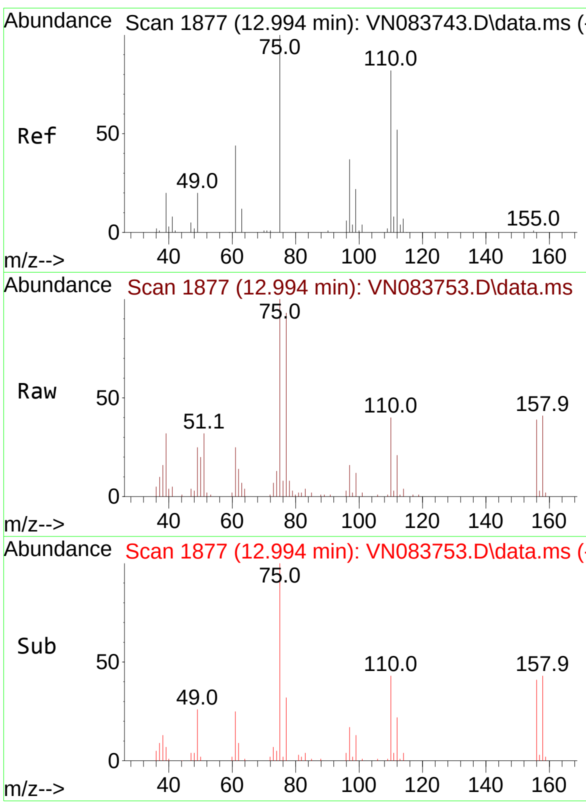



```
#75
1,1,2,2-Tetrachloroethane
Concen:   17.390 ug/l
RT:  12.941 min  Scan# 18
Delta R.T.  0.006 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

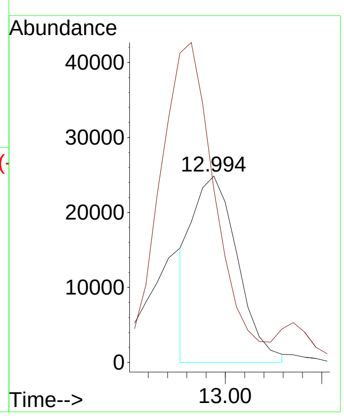
Tgt Ion: 83 Resp:   46841
Ion  Ratio  Lower  Upper
 83  100
131   10.2    5.2   15.6
 85   65.1   31.9   95.9
```






```
#76
1,2,3-Trichloropropane
Concen:   17.643 ug/l m
RT:  12.994 min  Scan# 1877
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion: 75 Resp:   41144
Ion  Ratio  Lower  Upper
 75  100
 77  209.4   95.2  285.6
```



Instrument :
MSVOA_N
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VN0910WBS01

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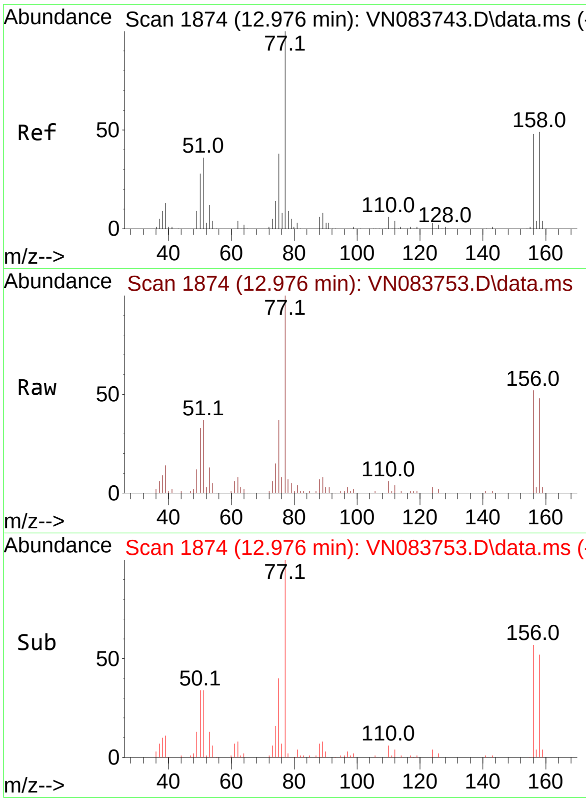
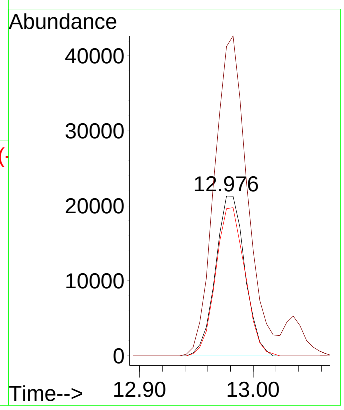
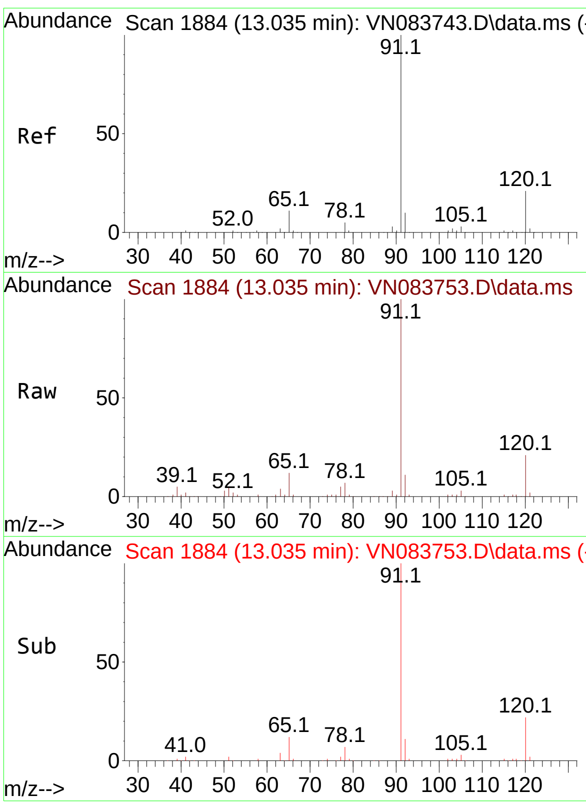



```
#77
Bromobenzene
Concen:   17.331 ug/l
RT:  12.976 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

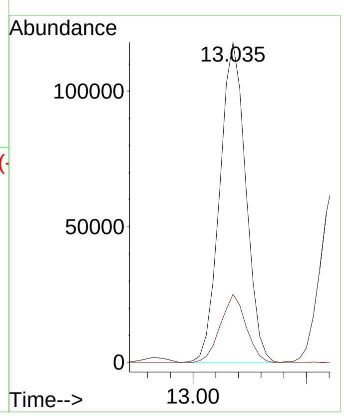
Tgt Ion:156 Resp:   3824
Ion  Ratio  Lower  Upper
156  100
 77  225.3  114.3  343.1
158   92.9   48.9  146.7
```






```
#78
n-propylbenzene
Concen:   17.652 ug/l
RT:  13.035 min  Scan# 1884
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion: 91 Resp:  188282
Ion  Ratio  Lower  Upper
 91  100
120   20.8   11.0   33.0
```



Instrument :
MSVOA_N
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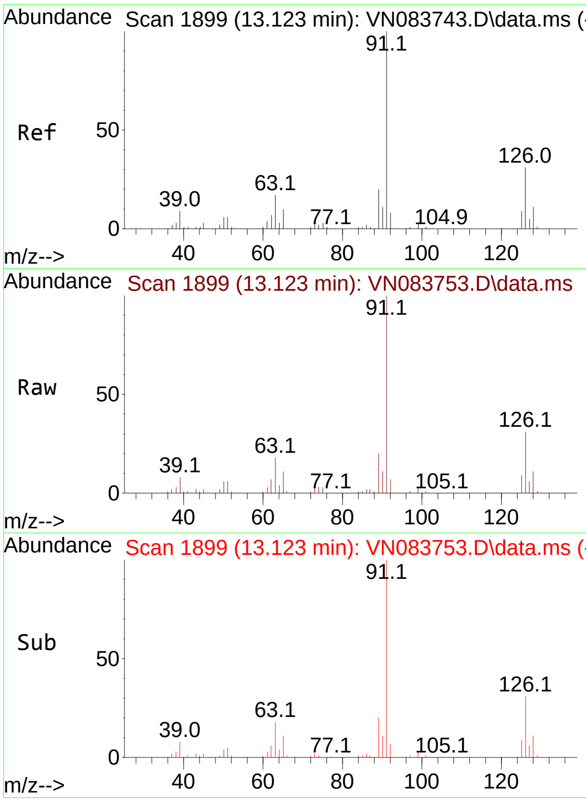
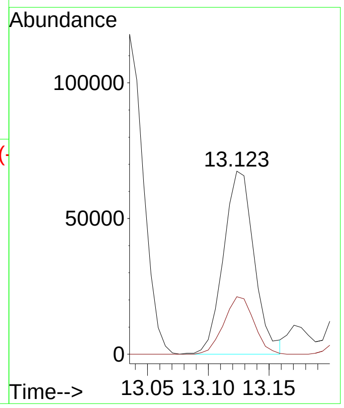
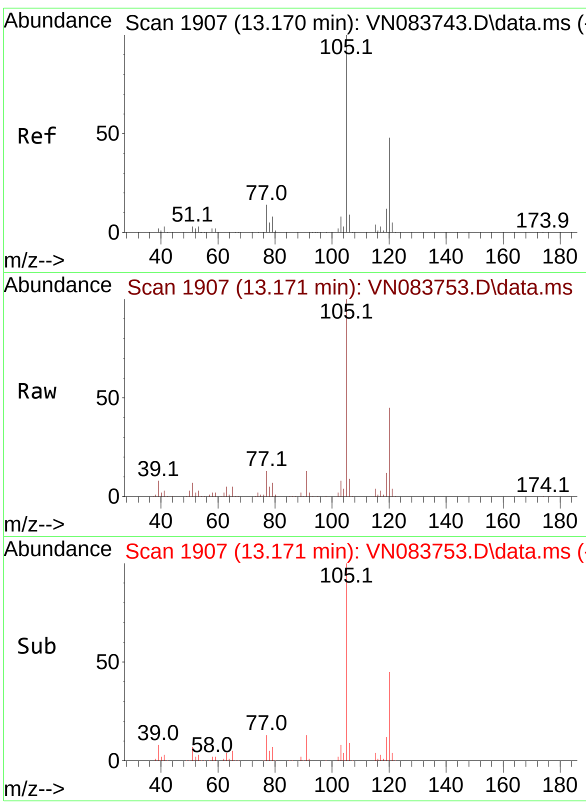
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#79
2-Chlorotoluene
Concen:   17.482 ug/l
RT:  13.123 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

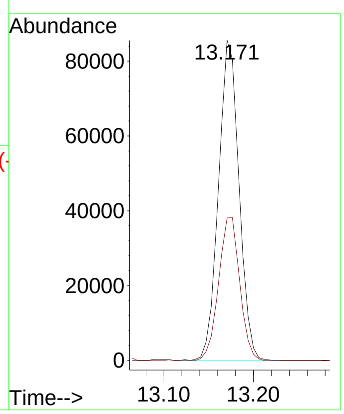
Tgt Ion: 91 Resp:  11892
Ion  Ratio  Lower  Upper
 91  100
126   30.5   15.4   46.2
```

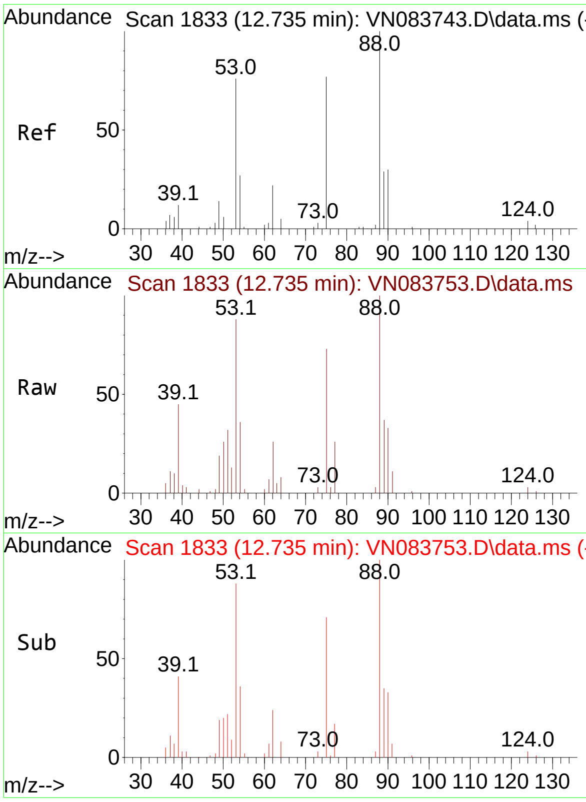





```
#80
1,3,5-Trimethylbenzene
Concen:   17.614 ug/l
RT:  13.171 min  Scan# 1907
Delta R.T.  0.000 min
Lab File:   VN083753.D
Acq: 10 Sep 2024  15:34

Tgt Ion:105 Resp:  136142
Ion  Ratio  Lower  Upper
105  100
120   46.0   23.4   70.3
```

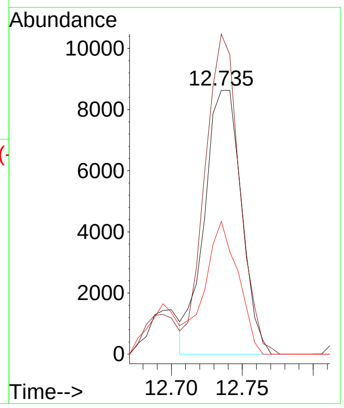




#81
trans-1,4-Dichloro-2-butene
Concen: 17.180 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 75 Resp: 1568

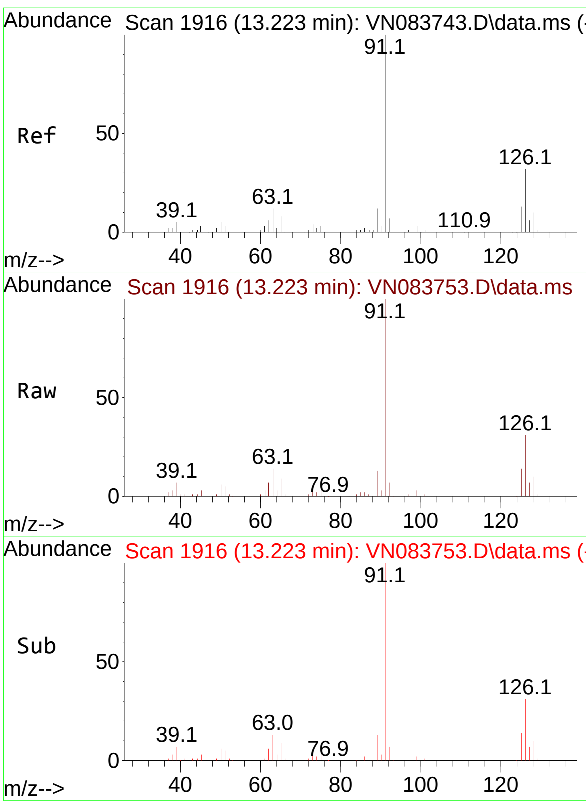
Ion	Ratio	Lower	Upper
75	100		
53	113.0	81.2	121.8
89	45.9	35.7	53.5



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations APPROVED

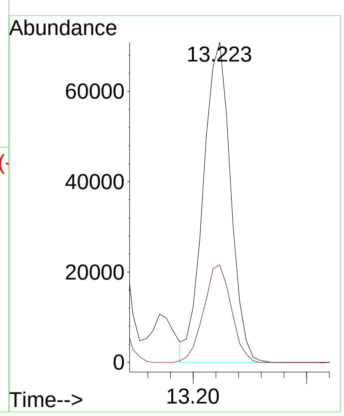
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#82
4-Chlorotoluene
Concen: 17.392 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

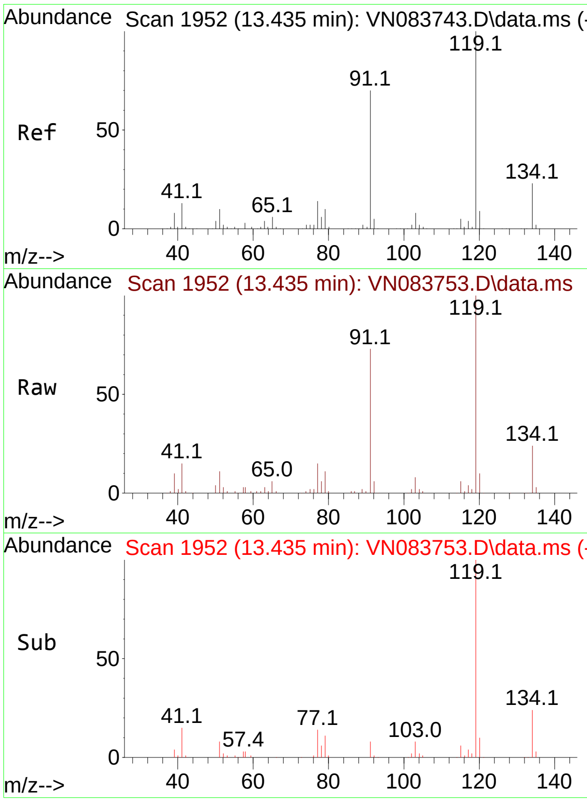
Tgt Ion: 91 Resp: 118725

Ion	Ratio	Lower	Upper
91	100		
126	30.7	15.4	46.2



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

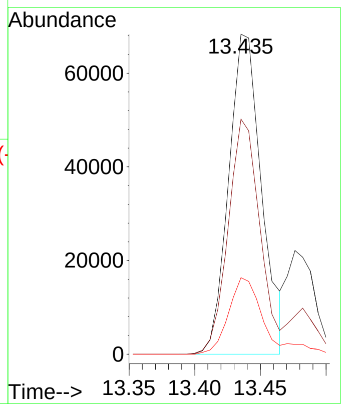
Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

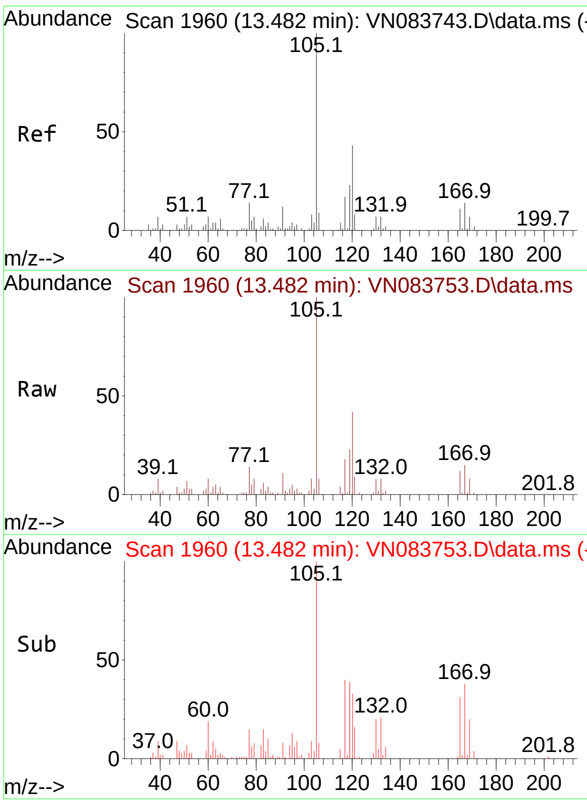


#83
tert-Butylbenzene
Concen: 17.599 ug/l
RT: 13.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:119 Resp: 11900

Ion	Ratio	Lower	Upper
119	100		
91	70.7	34.5	103.6
134	25.9	12.8	38.4

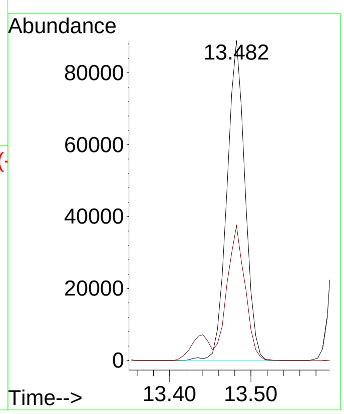




#84
1,2,4-Trimethylbenzene
Concen: 17.725 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:105 Resp: 137616

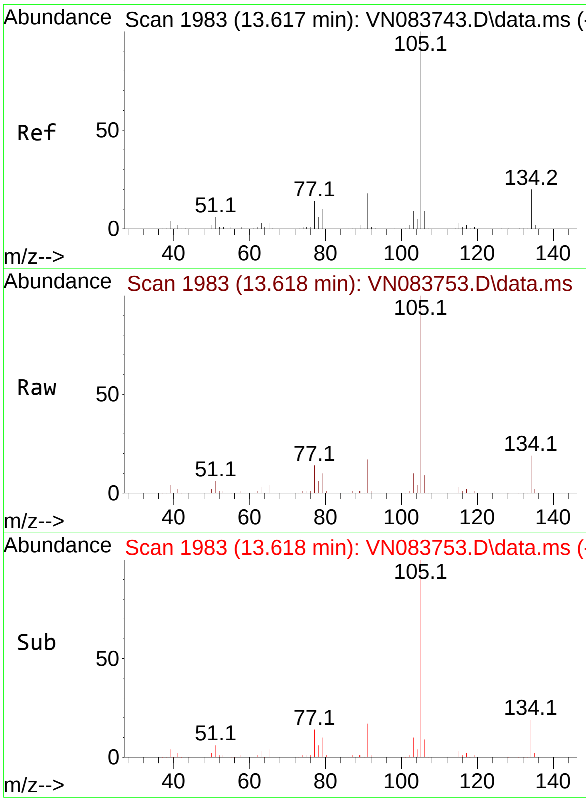
Ion	Ratio	Lower	Upper
105	100		
120	41.8	21.8	65.4



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations APPROVED

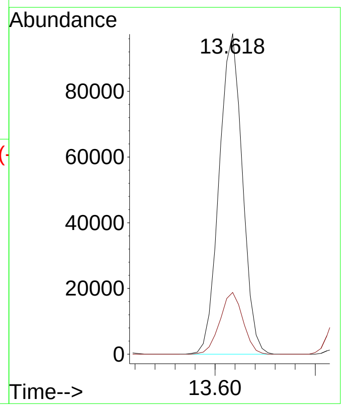
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

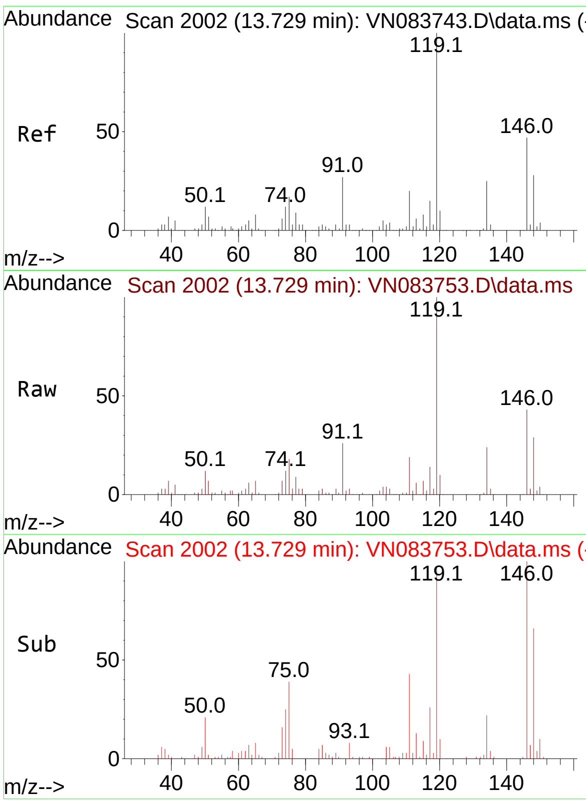


#85
sec-Butylbenzene
Concen: 17.515 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:105 Resp: 15707

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.7	29.1

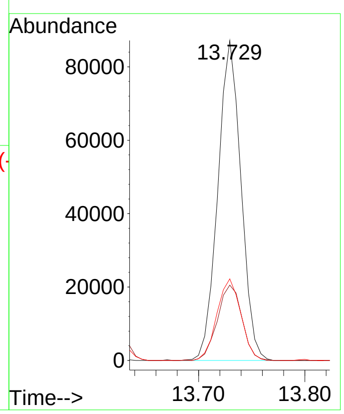




#86
p-Isopropyltoluene
Concen: 17.532 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:119 Resp: 131799

Ion	Ratio	Lower	Upper
119	100		
134	24.9	12.8	38.3
91	26.4	12.9	38.7



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

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Reviewed By :John Carlone 09/11/2024
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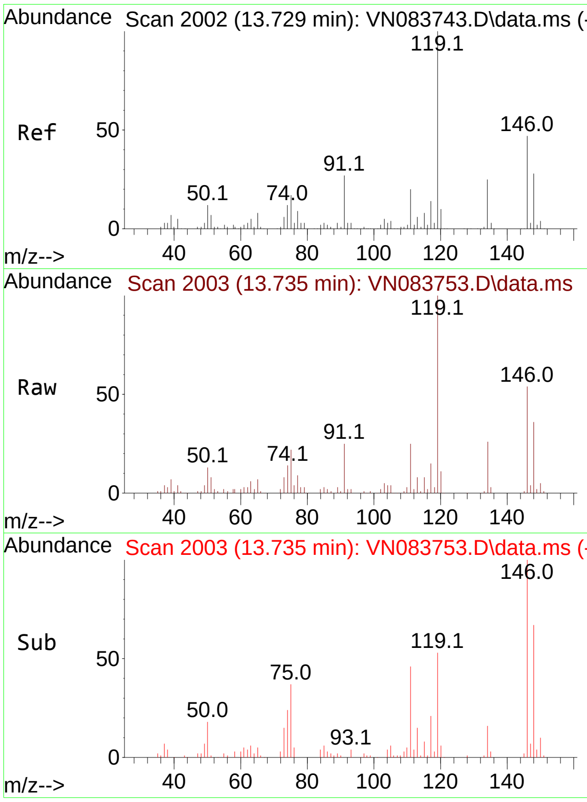
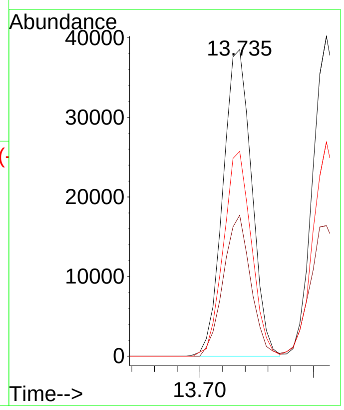
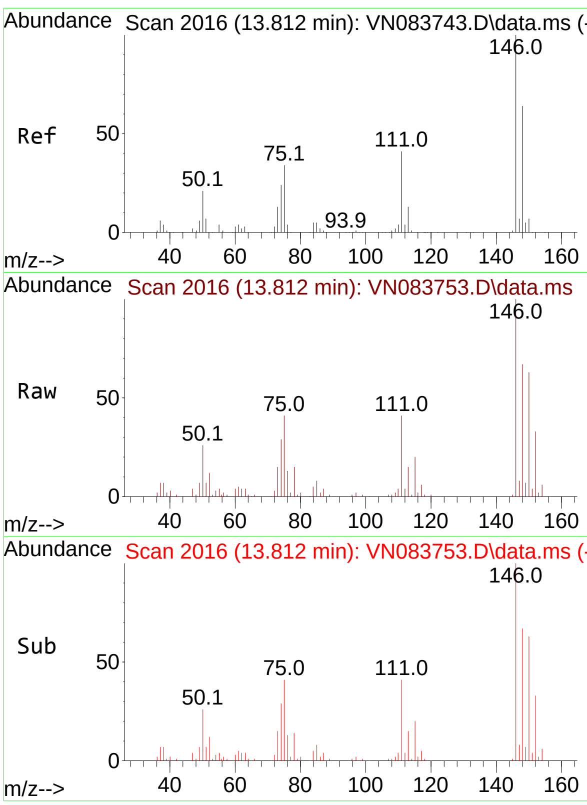


#87
1,3-Dichlorobenzene
Concen: 16.277 ug/l
RT: 13.735 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:146 Resp: 6778

Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.7	65.1
148	64.8	31.7	95.1

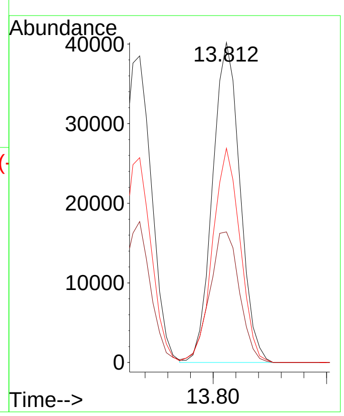


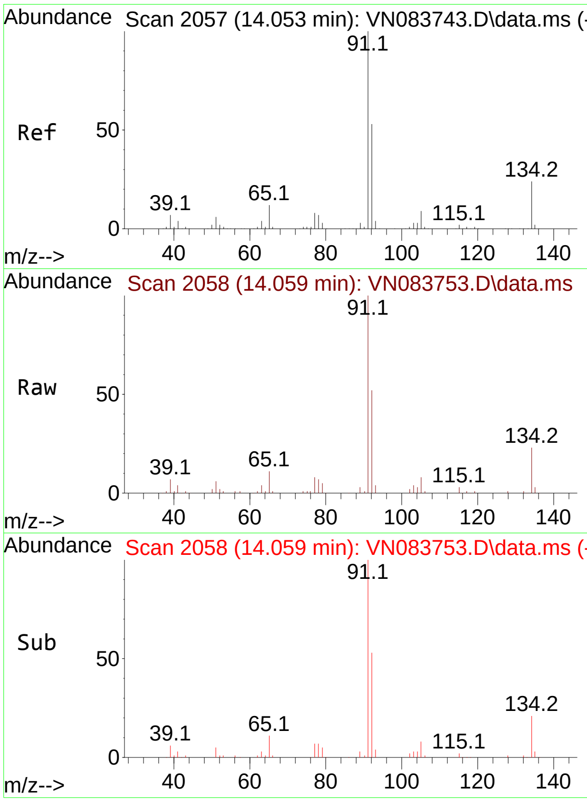


#88
1,4-Dichlorobenzene
Concen: 16.035 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:146 Resp: 67622

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.3	64.0
148	67.0	32.0	96.2





#89
n-Butylbenzene
Concen: 16.544 ug/l
RT: 14.059 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

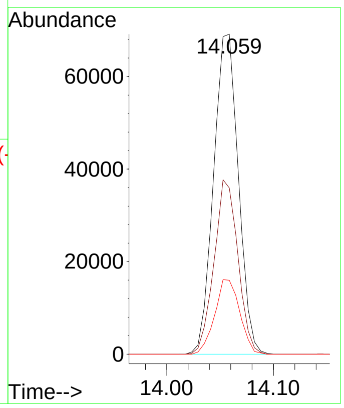
Tgt Ion: 91 Resp: 11166

Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.7	80.1
134	23.5	12.2	36.4

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



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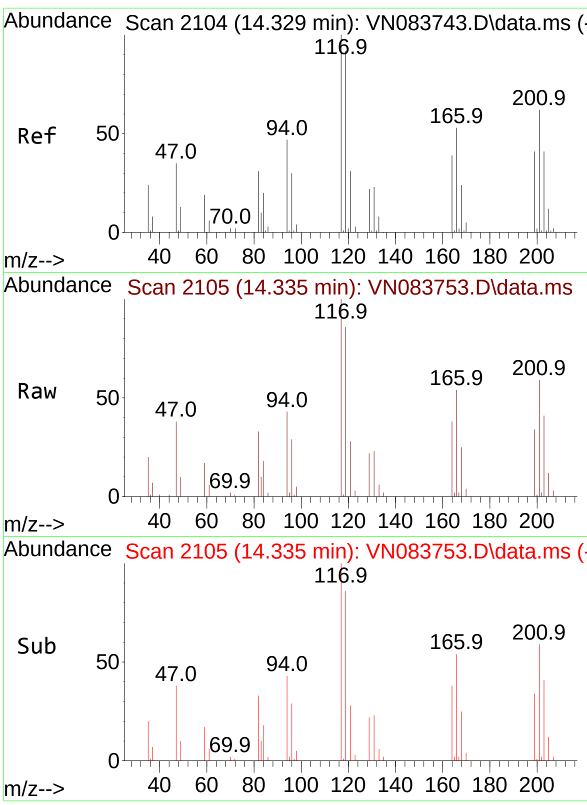
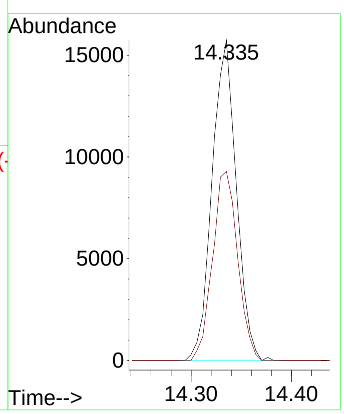
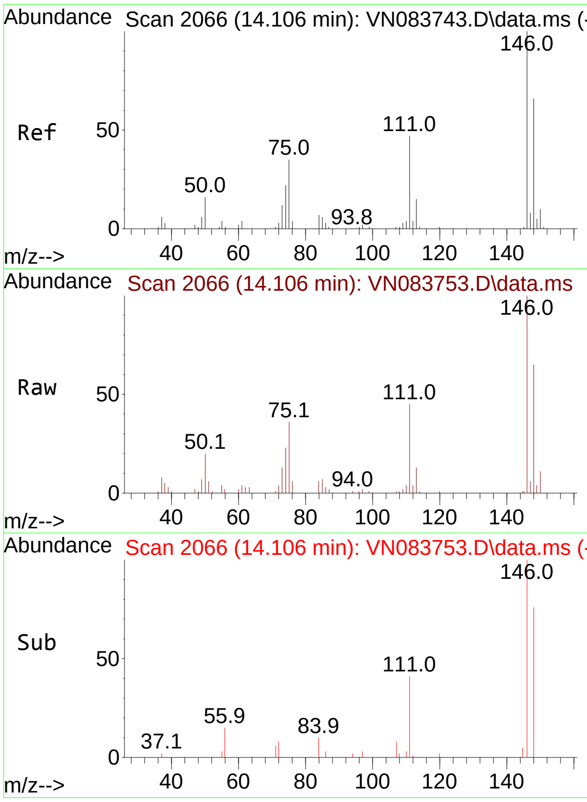


#90
Hexachloroethane
Concen: 17.481 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:117 Resp: 26417

Ion	Ratio	Lower	Upper
117	100		
201	61.0	32.8	98.3

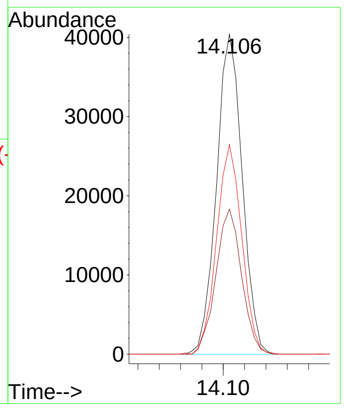




#91
1,2-Dichlorobenzene
Concen: 16.853 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:146 Resp: 67739

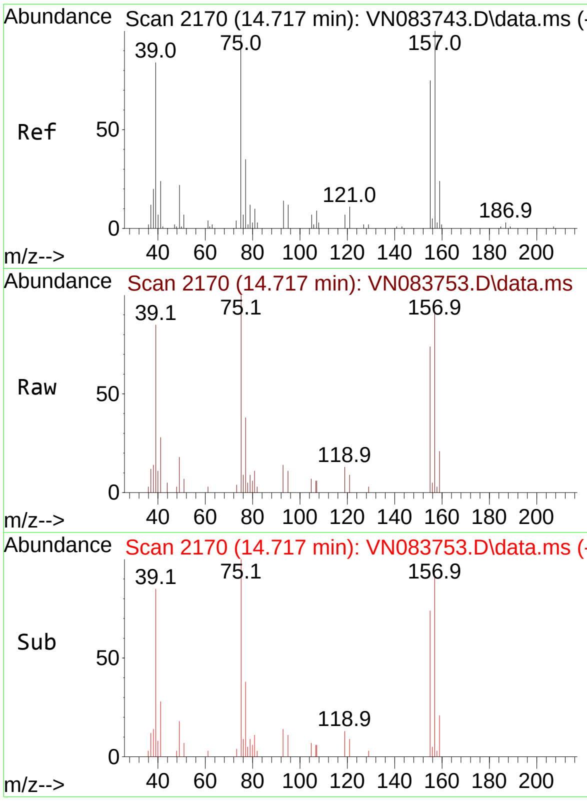
Ion	Ratio	Lower	Upper
146	100		
111	45.3	22.8	68.3
148	64.1	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

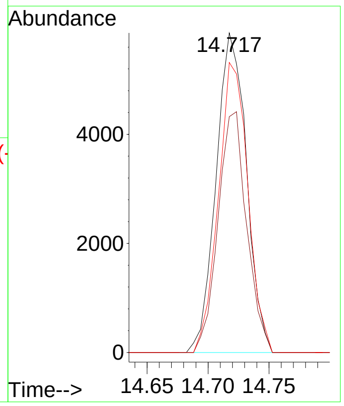
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

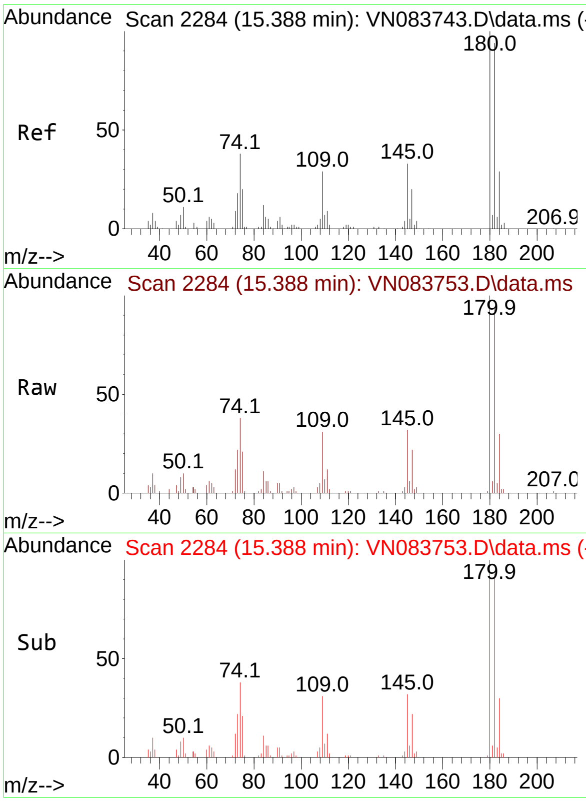


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.890 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion: 75 Resp: 10143

Ion	Ratio	Lower	Upper
75	100		
155	71.3	35.9	107.7
157	88.1	47.5	142.5

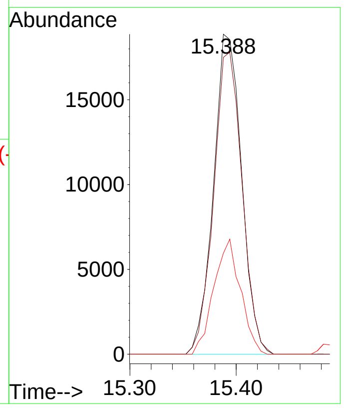




#93
1,2,4-Trichlorobenzene
Concen: 16.043 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:180 Resp: 3460

Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.1	144.3
145	34.2	16.9	50.7

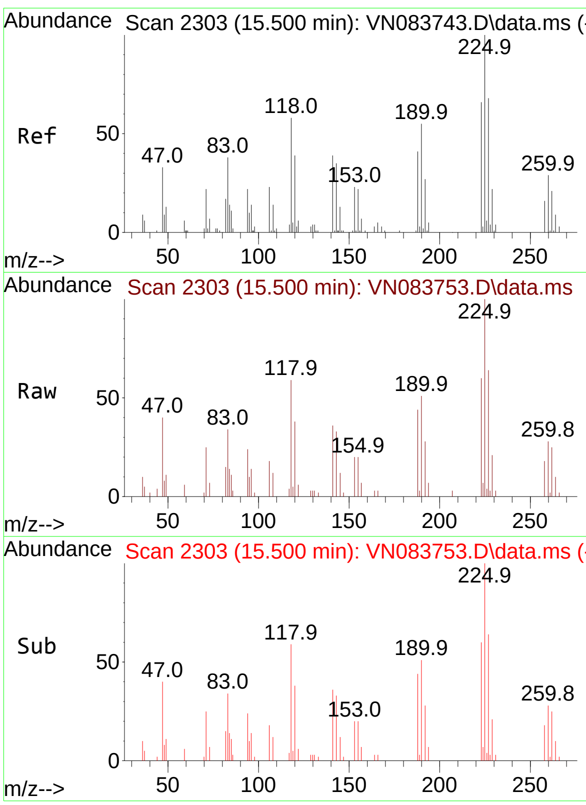


Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

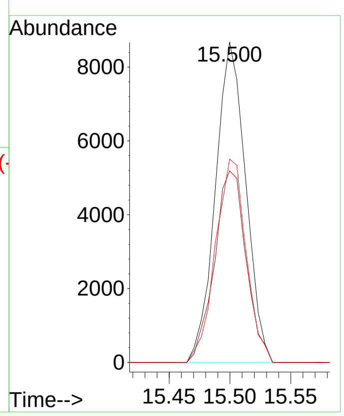
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#94
Hexachlorobutadiene
Concen: 16.408 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:225 Resp: 15029

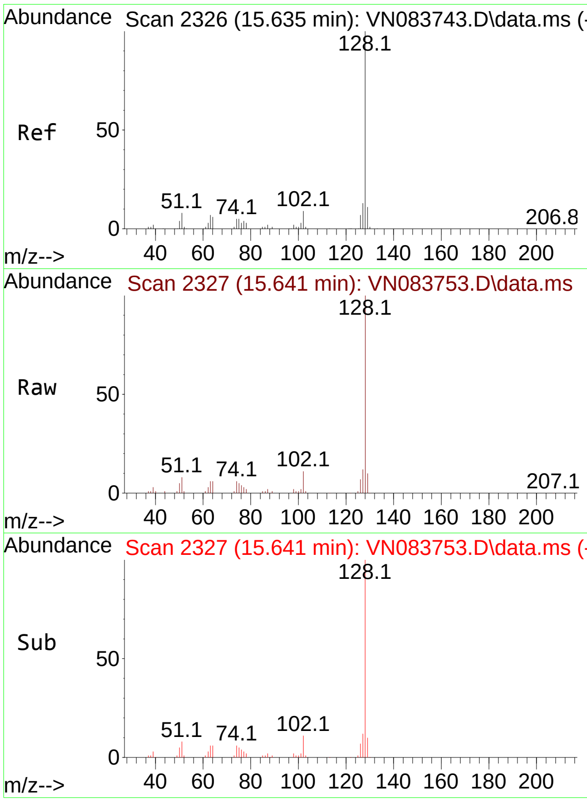
Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.9	95.5
227	64.6	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBS01

Manual Integrations APPROVED

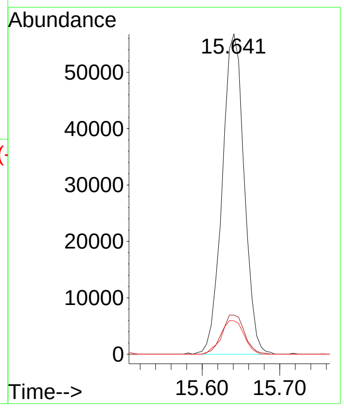
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

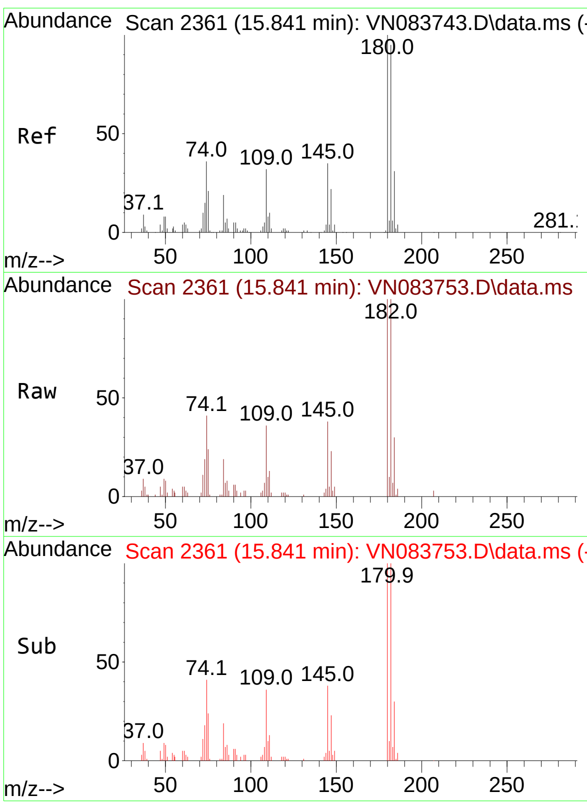


#95
Naphthalene
Concen: 17.068 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:128 Resp: 11199

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.9	8.7	13.1

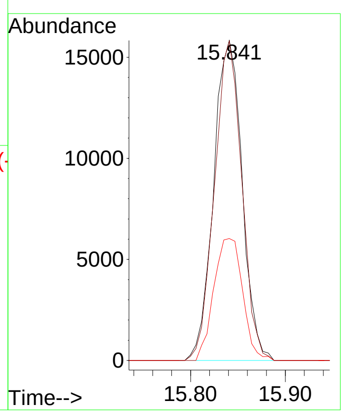




#96
1,2,3-Trichlorobenzene
Concen: 16.061 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083753.D
Acq: 10 Sep 2024 15:34

Tgt Ion:180 Resp: 33107

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.1	141.4
145	38.6	17.8	53.5



Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Waste Water PT			Date Received:	
Client Sample ID:	VN0911WBS01			SDG No.:	P3845
Lab Sample ID:	VN0911WBS01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083799.D	1		09/11/24 16:45	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		0.21	1.00	ug/L
74-87-3	Chloromethane	18.5		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.4		0.34	1.00	ug/L
141-78-6	Ethyl Acetate	21.2		0.38	1.00	ug/L
108-21-4	Isopropyl Acetate	23.8		0.29	1.00	ug/L
74-83-9	Bromomethane	19.4		1.40	5.00	ug/L
75-00-3	Chloroethane	18.9		0.56	1.00	ug/L
109-99-9	Tetrahydrofuran	100		1.20	5.00	ug/L
75-69-4	Trichlorofluoromethane	19.0		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.4		0.25	1.00	ug/L
75-65-0	Tert butyl alcohol	100		5.60	25.0	ug/L
60-29-7	Diethyl Ether	19.1		0.20	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.7		0.26	1.00	ug/L
107-02-8	Acrolein	89.8		6.70	25.0	ug/L
107-13-1	Acrylonitrile	100		0.90	5.00	ug/L
67-64-1	Acetone	90.0		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.3		0.16	1.00	ug/L
79-20-9	Methyl Acetate	21.4		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.3		0.25	1.00	ug/L
108-05-4	Vinyl Acetate	100		0.71	5.00	ug/L
75-34-3	1,1-Dichloroethane	19.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.4		1.60	5.00	ug/L
78-93-3	2-Butanone	97.8		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	1.00	ug/L
594-20-7	2,2-Dichloropropane	18.6		0.31	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.1		0.25	1.00	ug/L
74-97-5	Bromochloromethane	20.8		0.18	1.00	ug/L
67-66-3	Chloroform	18.9		0.26	1.00	ug/L

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0911WBS01	SDG No.:	P3845
Lab Sample ID:	VN0911WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083799.D	1		09/11/24 16:45	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	18.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.19	1.00	ug/L
563-58-6	1,1-Dichloropropene	17.7		0.18	1.00	ug/L
71-43-2	Benzene	18.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.5		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.5		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.8		0.19	1.00	ug/L
74-95-3	Dibromomethane	19.3		0.23	1.00	ug/L
75-27-4	Bromodichloromethane	19.3		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	19.1		0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.4		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.8		0.21	1.00	ug/L
142-28-9	1,3-Dichloropropane	20.1		0.17	1.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	110		1.80	5.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.8		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	17.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.1		0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	19.0		0.21	1.00	ug/L
100-41-4	Ethyl Benzene	18.6		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	36.2		0.31	2.00	ug/L
1330-20-7	Total Xylenes	54.5		0.45	3.00	ug/L
95-47-6	o-Xylene	18.3		0.14	1.00	ug/L
100-42-5	Styrene	19.1		0.16	1.00	ug/L
75-25-2	Bromoform	20.2		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	17.9		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.8		0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.7		0.39	1.00	ug/L

Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0911WBS01	SDG No.:	P3845
Lab Sample ID:	VN0911WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083799.D	1		09/11/24 16:45	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-86-1	Bromobenzene	17.3		0.26	1.00	ug/L
103-65-1	n-propylbenzene	17.5		0.14	1.00	ug/L
95-49-8	2-Chlorotoluene	18.1		0.16	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	18.3		0.18	1.00	ug/L
106-43-4	4-Chlorotoluene	17.4		0.18	1.00	ug/L
98-06-6	tert-Butylbenzene	18.3		0.17	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	18.4		0.18	1.00	ug/L
135-98-8	sec-Butylbenzene	18.0		0.17	1.00	ug/L
99-87-6	p-Isopropyltoluene	17.6		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	16.7		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.8		0.27	1.00	ug/L
104-51-8	n-Butylbenzene	16.3		0.22	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.9		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.2		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.3		0.42	1.00	ug/L
87-68-3	Hexachlorobutadiene	17.3		0.31	1.00	ug/L
91-20-3	Naphthalene	17.5		0.59	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.1		0.51	1.00	ug/L
628-63-7	N-amyl acetate	19.7		0.23	1.00	ug/L
74-88-4	Methyl Iodide	18.8		1.20	5.00	ug/L
107-05-1	Allyl chloride	19.1		0.24	1.00	ug/L
126-98-7	Methacrylonitrile	19.5		0.31	1.00	ug/L
97-63-2	Ethyl methacrylate	20.6		0.16	1.00	ug/L
108-20-3	Diisopropyl ether	19.5		0.16	1.00	ug/L
123-91-1	1,4-Dioxane	420		6.50	100	ug/L
80-62-6	Methyl methacrylate	20.9		0.32	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.6		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	51.5		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		77 - 121	94%	SPK: 50
INTERNAL STANDARDS						

Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Waste Water PT		Date Received:		
Client Sample ID:	VN0911WBS01		SDG No.:	P3845	
Lab Sample ID:	VN0911WBS01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083799.D	1		09/11/24 16:45	VN091124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	149000	8.224			
540-36-3	1,4-Difluorobenzene	261000	9.1			
3114-55-4	Chlorobenzene-d5	227000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	112000	13.794			
67-72-1	Hexachloroethane					

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083799.D
Acq On : 11 Sep 2024 16:45
Operator : JC\MD
Sample : VN0911WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 02:09:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.224	168	149250	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	261095	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	227203	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	111791	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.577	65	113952	50.635 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.260%		
35) Dibromofluoromethane	8.165	113	81366	48.679 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.360%		
50) Toluene-d8	10.565	98	297437	51.473 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.940%		
62) 4-Bromofluorobenzene	12.847	95	112119	47.029 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.060%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.124	85	33439	19.292 ug/l	99
3) Chloromethane	2.359	50	34843	18.523 ug/l	98
4) Vinyl Chloride	2.512	62	34893	18.366 ug/l	96
5) Bromomethane	2.901	94	21195	19.430 ug/l	98
6) Chloroethane	3.065	64	25216	18.921 ug/l	96
7) Trichlorofluoromethane	3.465	101	61112	18.950 ug/l	99
8) Diethyl Ether	3.959	74	20640	19.093 ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.359	101	33133	19.384 ug/l	96
10) Methyl Iodide	4.577	142	40902	18.815 ug/l	89
11) Tert butyl alcohol	5.536	59	30582	101.480 ug/l #	84
12) 1,1-Dichloroethene	4.324	96	30229	18.726 ug/l	97
13) Acrolein	4.177	56	26709	89.826 ug/l	99
14) Allyl chloride	5.012	41	55067	19.144 ug/l	98
15) Acrylonitrile	5.718	53	83375	101.732 ug/l	99
16) Acetone	4.430	43	81193	89.998 ug/l	96
17) Carbon Disulfide	4.694	76	78324	17.345 ug/l	98
18) Methyl Acetate	5.024	43	42293	21.440 ug/l	100
19) Methyl tert-butyl Ether	5.794	73	112571	19.271 ug/l	99
20) Methylene Chloride	5.265	84	35197	19.065 ug/l	95
21) trans-1,2-Dichloroethene	5.777	96	31574	18.251 ug/l	96
22) Diisopropyl ether	6.671	45	115593	19.522 ug/l	97
23) Vinyl Acetate	6.600	43	440585	101.605 ug/l	99
24) 1,1-Dichloroethane	6.559	63	64942	19.037 ug/l	98
25) 2-Butanone	7.483	43	115948	97.785 ug/l	99
26) 2,2-Dichloropropane	7.488	77	58288	18.553 ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	39161	19.068 ug/l	98
28) Bromochloromethane	7.812	49	29864	20.788 ug/l	95
29) Tetrahydrofuran	7.835	42	71490	101.965 ug/l	100
30) Chloroform	7.965	83	68347	18.872 ug/l	96
31) Cyclohexane	8.253	56	59693	18.353 ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	62636	18.809 ug/l	98
36) 1,1-Dichloropropene	8.365	75	44477	17.679 ug/l	100
37) Ethyl Acetate	7.559	43	48502	21.239 ug/l	98
38) Carbon Tetrachloride	8.359	117	54045	18.935 ug/l	98
39) Methylcyclohexane	9.600	83	53487	18.678 ug/l	96
40) Benzene	8.600	78	142354	18.799 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083799.D
Acq On : 11 Sep 2024 16:45
Operator : JC\MD
Sample : VN0911WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

Quant Time: Sep 12 02:09:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	26318	19.485 ug/l	98
42) 1,2-Dichloroethane	8.671	62	57918	20.469 ug/l	98
43) Isopropyl Acetate	8.688	43	98330	23.761 ug/l	94
44) Trichloroethene	9.347	130	32354	18.450 ug/l	98
45) 1,2-Dichloropropane	9.618	63	36229	19.795 ug/l	97
46) Dibromomethane	9.706	93	24752	19.308 ug/l	99
47) Bromodichloromethane	9.888	83	53597	19.319 ug/l	98
48) Methyl methacrylate	9.682	41	40956	20.860 ug/l	96
49) 1,4-Dioxane	9.700	88	13673	423.334 ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	237950	105.630 ug/l	96
52) Toluene	10.629	92	88404	19.086 ug/l	98
53) t-1,3-Dichloropropene	10.835	75	51842	18.435 ug/l	95
54) cis-1,3-Dichloropropene	10.312	75	55765	18.878 ug/l	91
55) 1,1,2-Trichloroethane	11.018	97	32445	18.763 ug/l	96
56) Ethyl methacrylate	10.871	69	54822	20.606 ug/l	98
57) 1,3-Dichloropropane	11.165	76	59611	20.058 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	102730	107.165 ug/l	96
59) 2-Hexanone	11.194	43	173745	104.267 ug/l	97
60) Dibromochloromethane	11.359	129	38100	19.688 ug/l	95
61) 1,2-Dibromoethane	11.471	107	32500	18.846 ug/l	98
64) Tetrachloroethene	11.106	164	26310	17.413 ug/l	96
65) Chlorobenzene	11.888	112	91213	18.063 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	33178	18.953 ug/l	99
67) Ethyl Benzene	11.965	91	166588	18.571 ug/l	99
68) m/p-Xylenes	12.070	106	120699	36.242 ug/l	98
69) o-Xylene	12.400	106	59058	18.318 ug/l	97
70) Styrene	12.412	104	101275	19.140 ug/l	99
71) Bromoform	12.576	173	23799	20.175 ug/l #	99
73) Isopropylbenzene	12.694	105	154812	17.900 ug/l	99
74) N-amyl acetate	12.494	43	72864	19.746 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	47677	18.762 ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	42204m	18.710 ug/l	
77) Bromobenzene	12.982	156	36106	17.343 ug/l	97
78) n-propylbenzene	13.035	91	176000	17.490 ug/l	100
79) 2-Chlorotoluene	13.123	91	116341	18.128 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	133503	18.309 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	15414	17.897 ug/l	89
82) 4-Chlorotoluene	13.217	91	112039	17.397 ug/l	98
83) tert-Butylbenzene	13.435	119	116622	18.281 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	134697	18.389 ug/l	99
85) sec-Butylbenzene	13.617	105	152251	17.995 ug/l	100
86) p-Isopropyltoluene	13.729	119	124511	17.556 ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	65668	16.714 ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	66959	16.831 ug/l	98
89) n-Butylbenzene	14.053	91	103956	16.325 ug/l	99
90) Hexachloroethane	14.335	117	25026	17.554 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	67694	17.852 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10212	20.159 ug/l	96
93) 1,2,4-Trichlorobenzene	15.394	180	33104	16.269 ug/l	98
94) Hexachlorobutadiene	15.500	225	14982	17.337 ug/l	99
95) Naphthalene	15.641	128	108187	17.476 ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	31271	16.080 ug/l	98

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083799.D
Acq On    : 11 Sep 2024  16:45
Operator  : JC\MD
Sample    : VN0911WBS01
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Sep 12 02:09:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title  : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration
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Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

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

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091124\
Data File : VN083799.D
Acq On : 11 Sep 2024 16:45
Operator : JC\MD
Sample : VN0911WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 02:09:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

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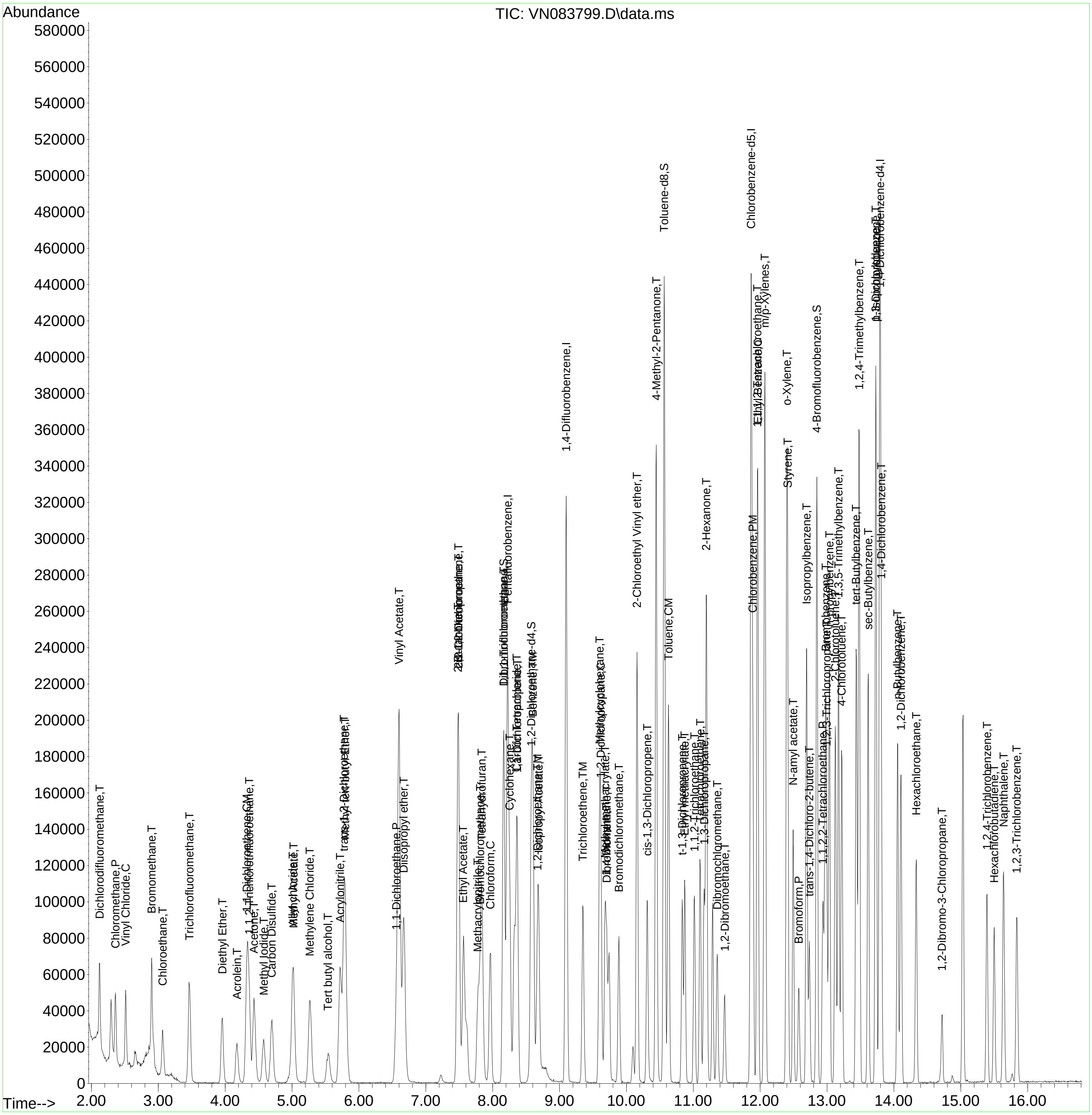
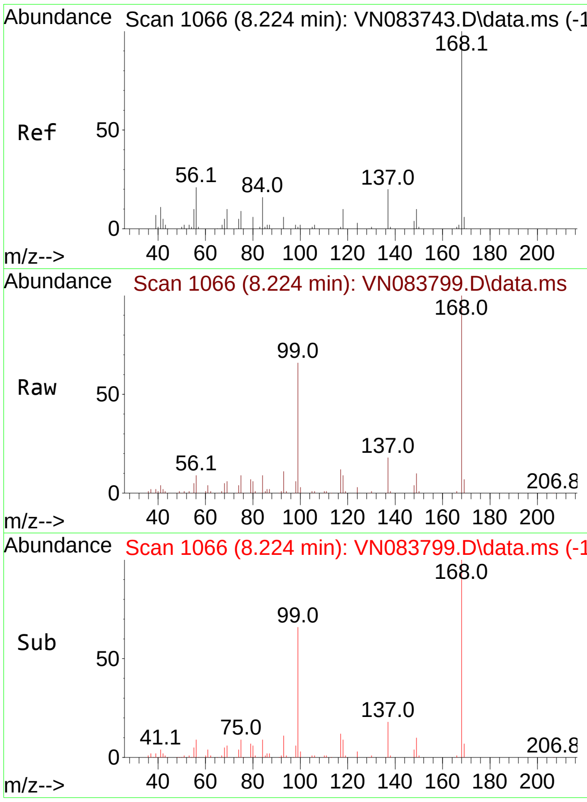


Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations
APPROVED

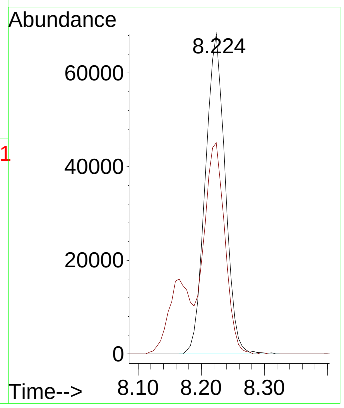
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

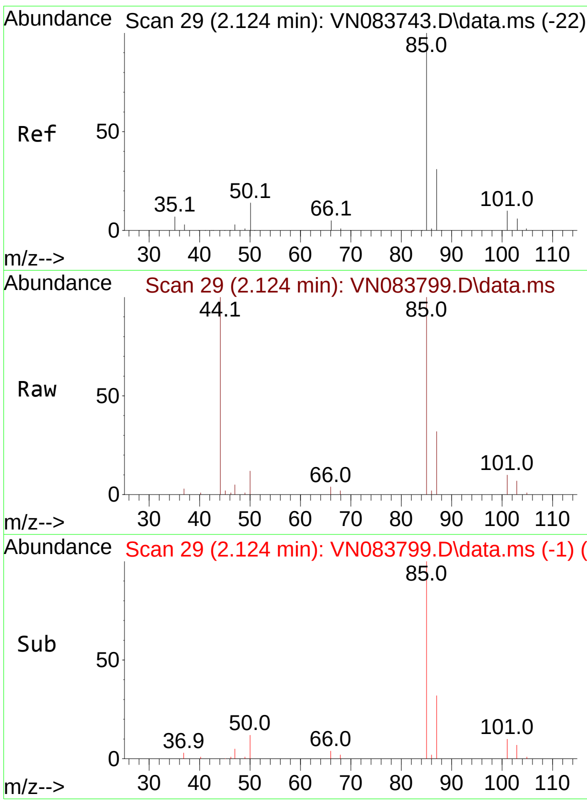


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:168 Resp: 14925

Ion	Ratio	Lower	Upper
168	100		
99	66.0	54.2	81.2

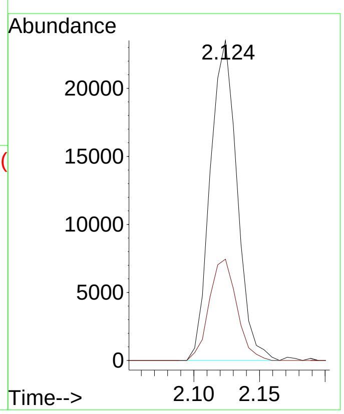




#2
Dichlorodifluoromethane
Concen: 19.292 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 85 Resp: 33439

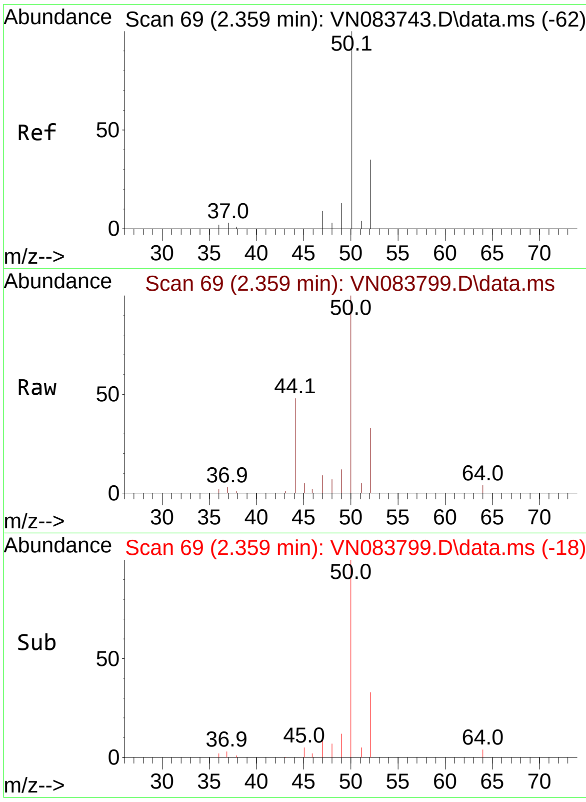
Ion	Ratio	Lower	Upper
85	100		
87	31.6	15.7	47.0



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

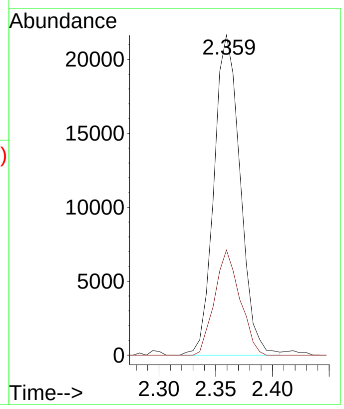
Manual Integrations APPROVED
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

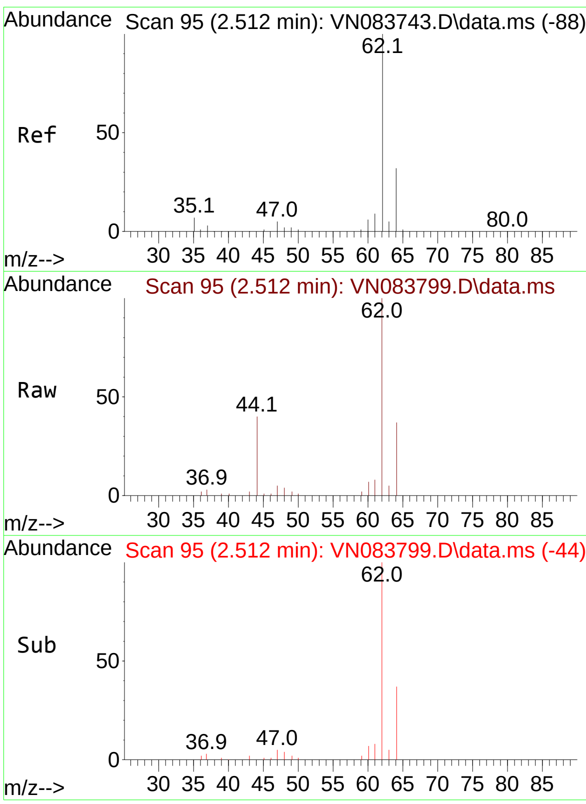
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#3
Chloromethane
Concen:   18.523 ug/l
RT:   2.359 min  Scan# 6
Delta R.T.   0.000 min
Lab File:    VN083799.D
Acq: 11 Sep 2024  16:45

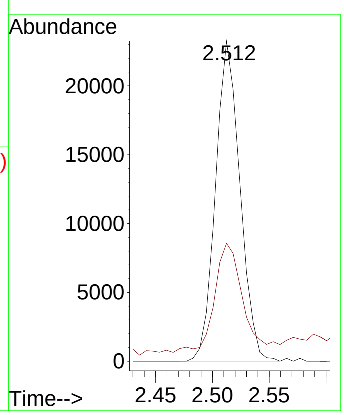
Tgt Ion: 50 Resp:   3484
Ion  Ratio  Lower  Upper
 50  100
 52   32.9   27.2   40.8
```






```
#4
Vinyl Chloride
Concen:   18.366 ug/l
RT:   2.512 min  Scan# 95
Delta R.T.  -0.000 min
Lab File:    VN083799.D
Acq: 11 Sep 2024  16:45

Tgt Ion: 62 Resp:   34893
Ion  Ratio  Lower  Upper
 62  100
 64   32.9   24.7   37.1
```



Instrument : MSVOA_N
ClientSampleId : VN0911WBS01

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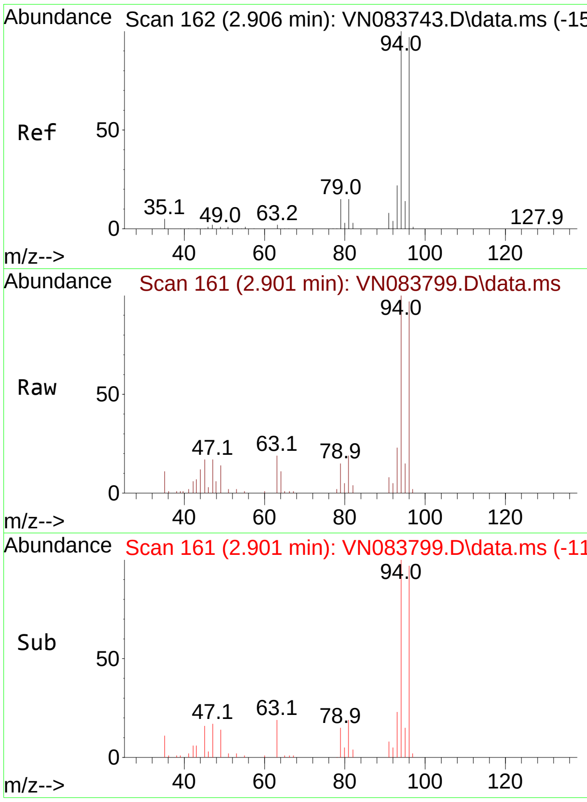
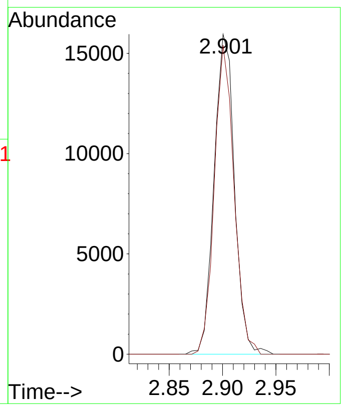
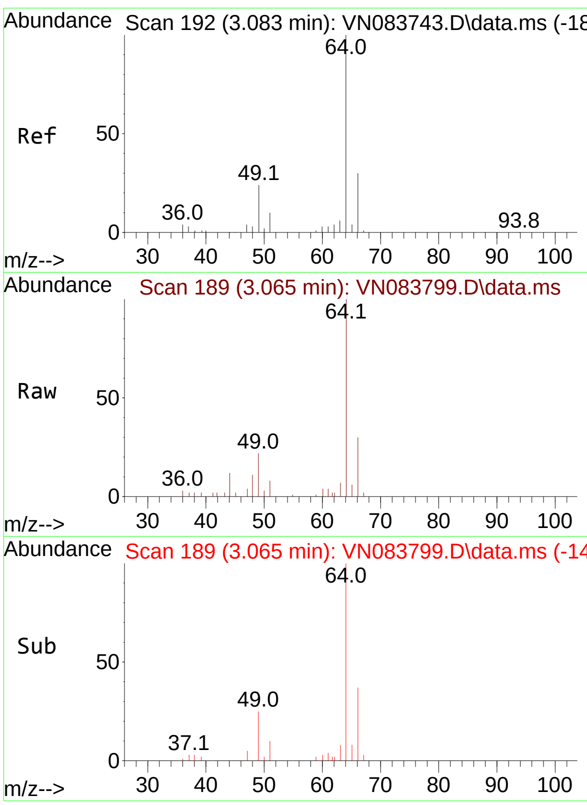



```
#5
Bromomethane
Concen:   19.430 ug/l
RT:    2.901 min   Scan# 1(
Delta R.T.   -0.006 min
Lab File:    VN083799.D
Acq: 11 Sep 2024   16:45

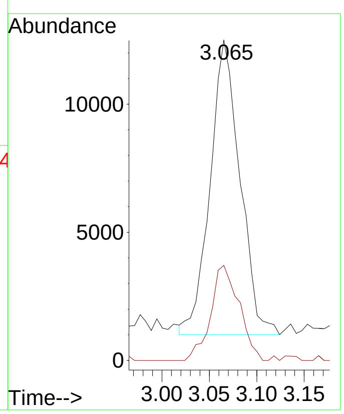
Tgt Ion: 94 Resp:    2119
Ion   Ratio   Lower   Upper
 94   100
 96    96.5    76.0   114.0
```

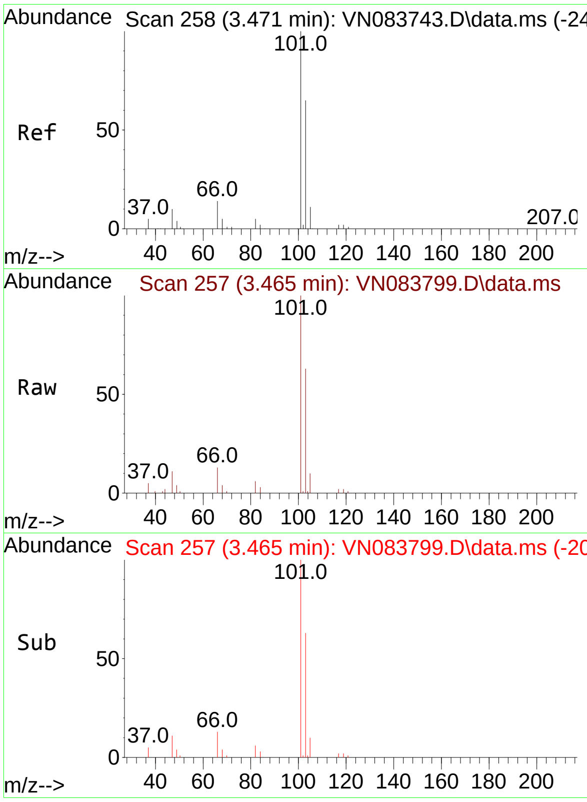





```
#6
Chloroethane
Concen:   18.921 ug/l
RT:    3.065 min   Scan# 189
Delta R.T.   -0.018 min
Lab File:    VN083799.D
Acq: 11 Sep 2024   16:45

Tgt Ion: 64 Resp:    25216
Ion   Ratio   Lower   Upper
 64   100
 66    32.3    23.9    35.9
```





#7
Trichlorofluoromethane
Concen: 18.950 ug/l
RT: 3.465 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:101 Resp: 6111

Ion	Ratio	Lower	Upper
101	100		
103	63.1	51.4	77.0

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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Reviewed By :John Carlone 09/12/2024
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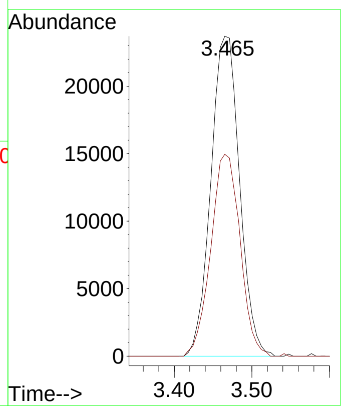
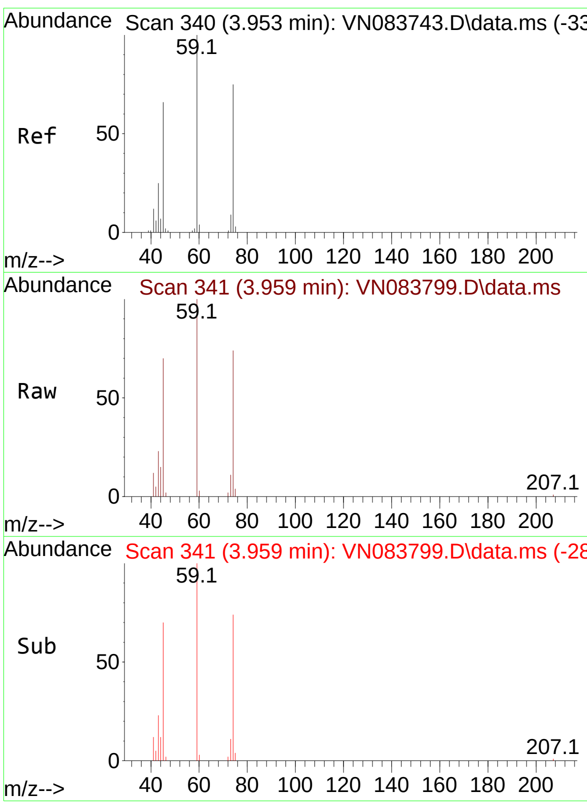
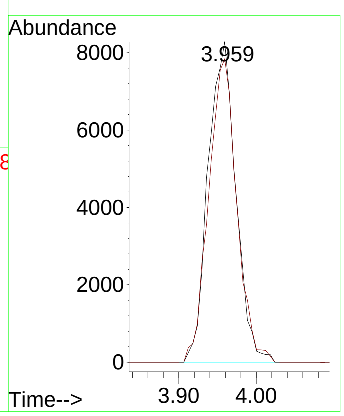




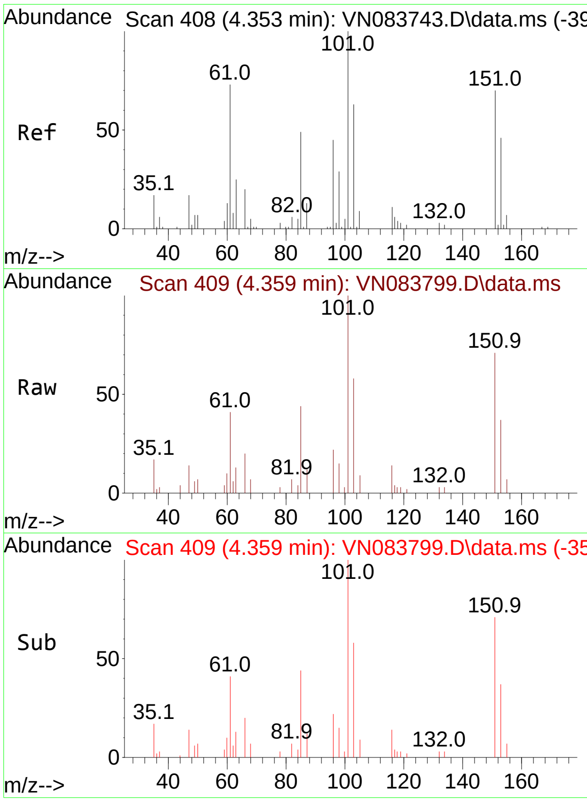
#8
Diethyl Ether
Concen: 19.093 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 74 Resp: 20640

Ion	Ratio	Lower	Upper
74	100		
45	95.8	46.7	140.1



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.384 ug/l
RT: 4.359 min   Scan# 40
Delta R.T.   0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024   16:45

Tgt Ion:101 Resp: 3313

Ion	Ratio	Lower	Upper
101	100		
85	47.7	36.2	54.4
151	75.0	57.7	86.5

Instrument :
MSVOA_N
ClientSampleId :
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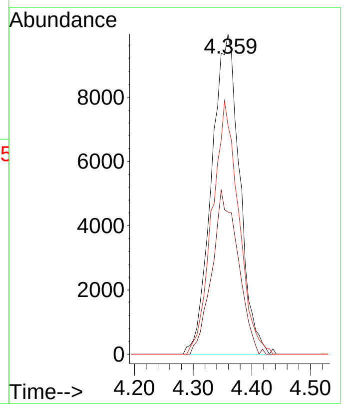
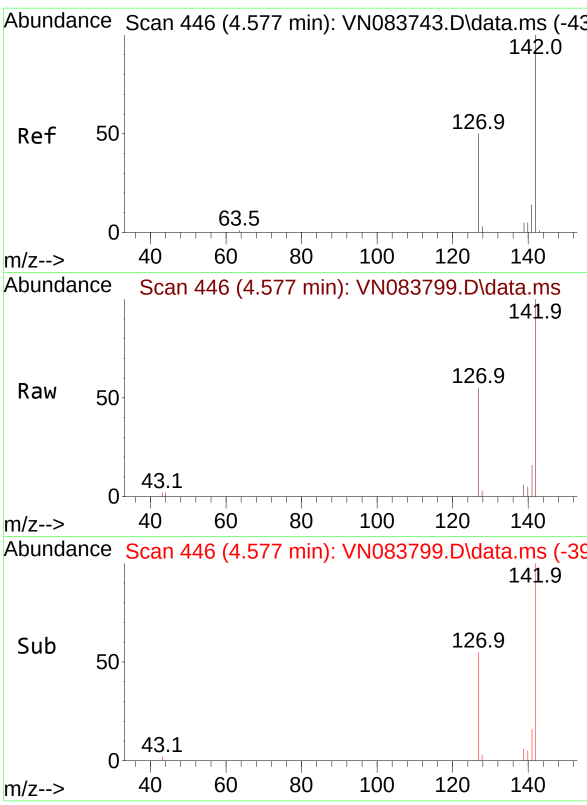
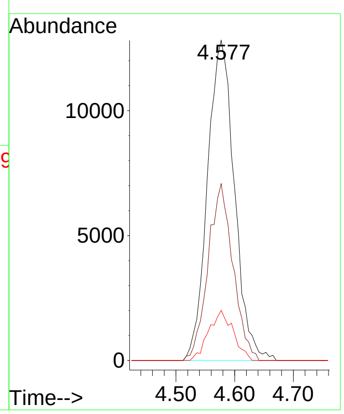




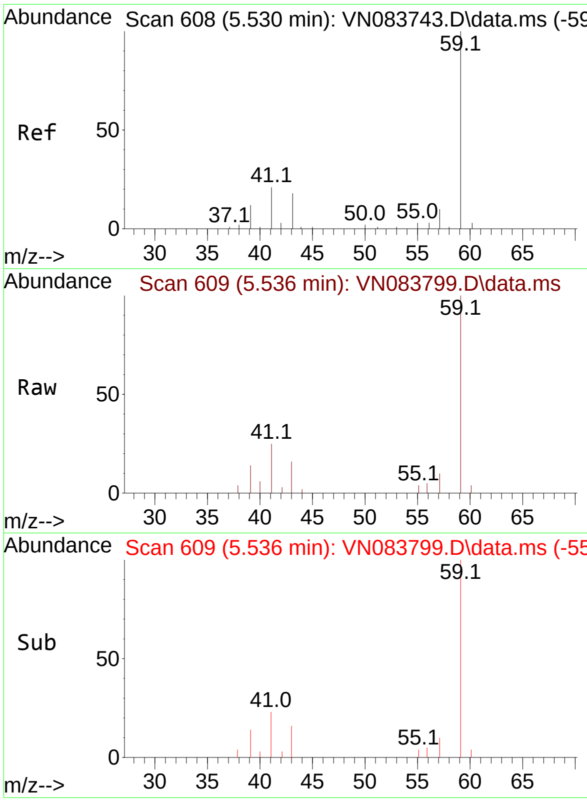
#10
Methyl Iodide
Concen: 18.815 ug/l
RT: 4.577 min   Scan# 446
Delta R.T.   -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024   16:45

Tgt Ion:142 Resp: 40902

Ion	Ratio	Lower	Upper
142	100		
127	55.2	37.5	56.3
141	15.6	11.0	16.4



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#11
Tert butyl alcohol
Concen: 101.480 ug/l
RT: 5.536 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 59 Resp: 3058

Ion	Ratio	Lower	Upper
59	100		
57	4.9	8.7	13.1#

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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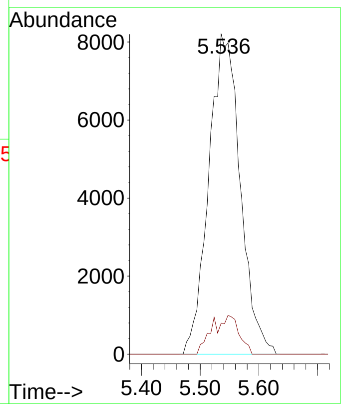
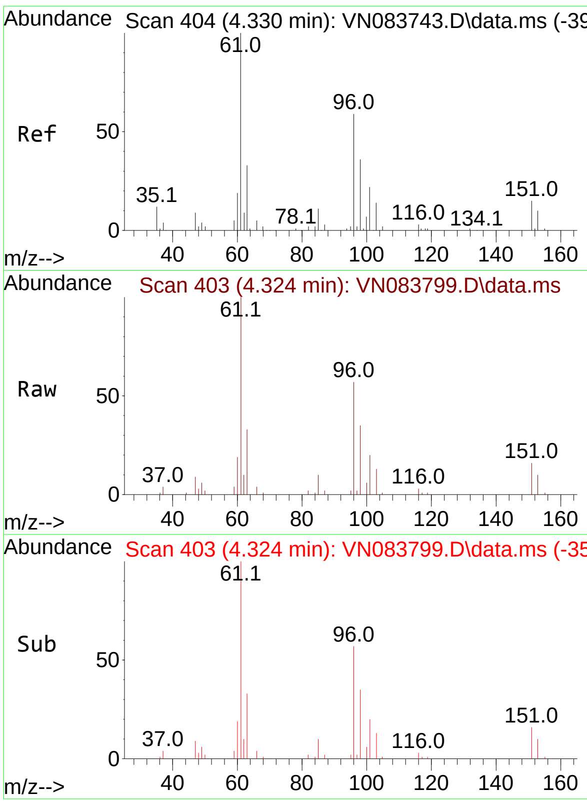
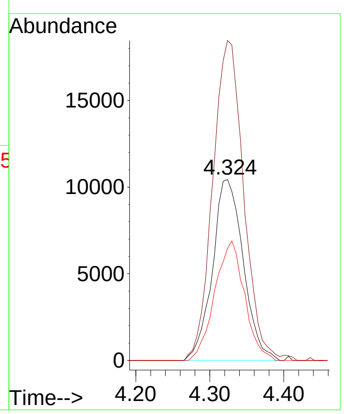




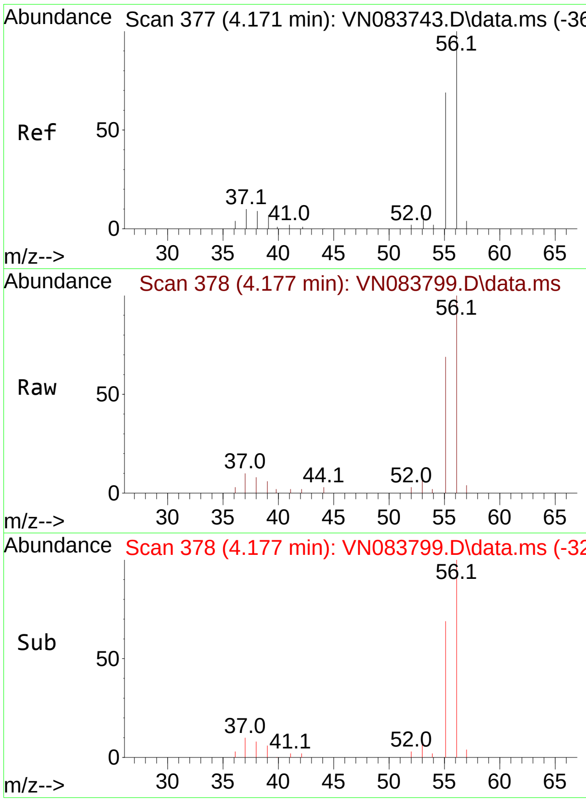
#12
1,1-Dichloroethene
Concen: 18.726 ug/l
RT: 4.324 min Scan# 403
Delta R.T. -0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 96 Resp: 30229

Ion	Ratio	Lower	Upper
96	100		
61	176.9	143.4	215.0
98	61.9	52.7	79.1



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#13
Acrolein
Concen:   89.826 ug/l
RT:   4.177 min  Scan# 3
Delta R.T.  0.006 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

Tgt Ion: 56 Resp:   2670
Ion  Ratio  Lower  Upper
 56  100
 55   71.9   58.2   87.2
```

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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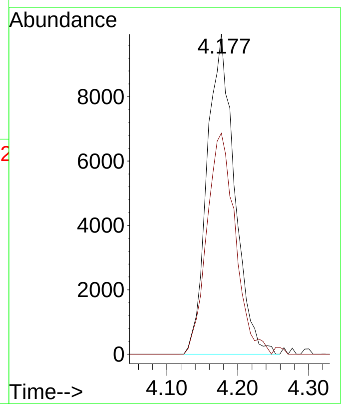
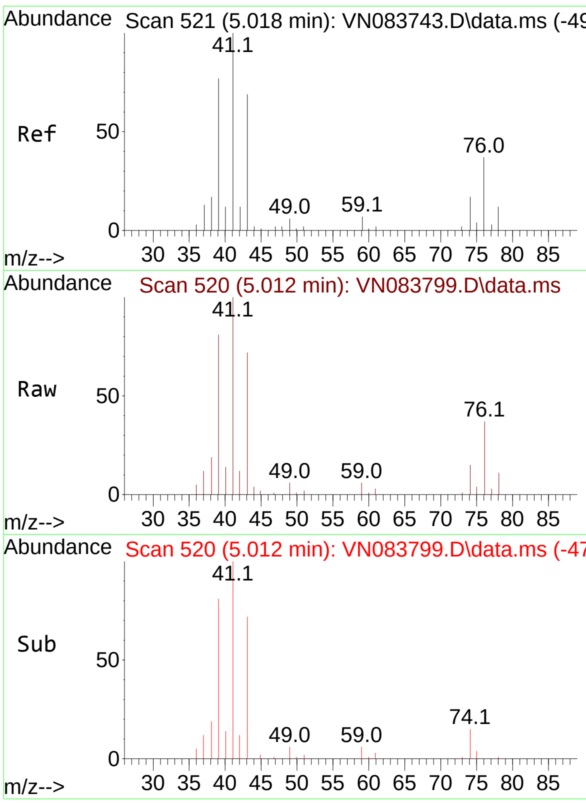
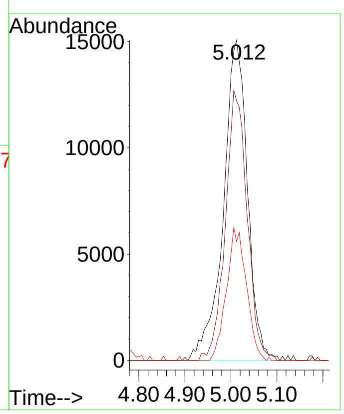





```
#14
Allyl chloride
Concen:   19.144 ug/l
RT:   5.012 min  Scan# 520
Delta R.T.  -0.006 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

Tgt Ion: 41 Resp:   55067
Ion  Ratio  Lower  Upper
 41  100
 39   75.9   59.3   88.9
 76   34.3   27.7   41.5
```



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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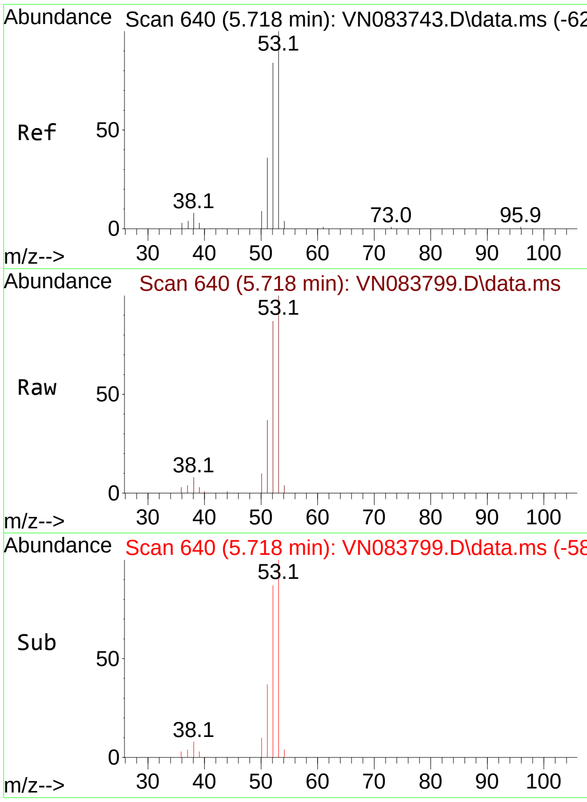
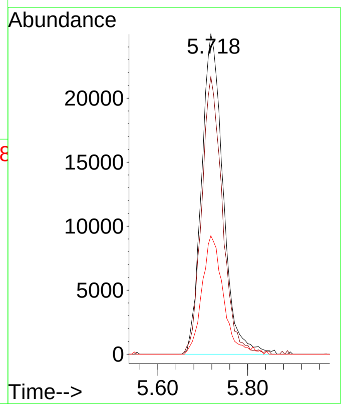
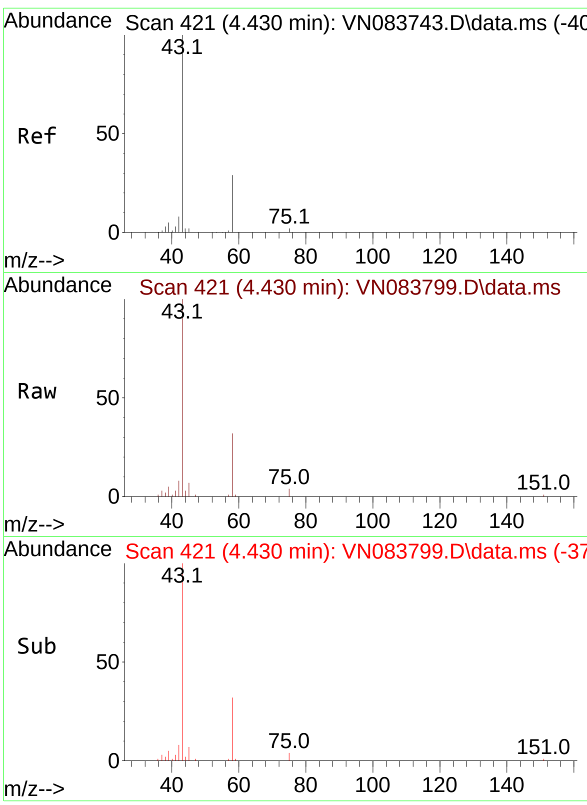


#15
Acrylonitrile
Concen: 101.732 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 53 Resp: 83375

Ion	Ratio	Lower	Upper
53	100		
52	83.2	66.1	99.1
51	36.9	29.6	44.4

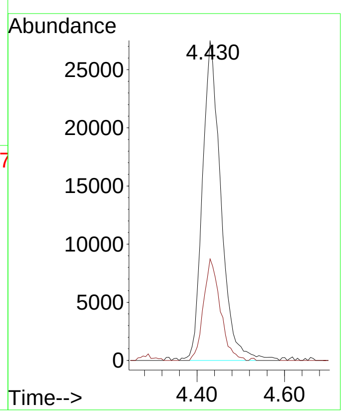


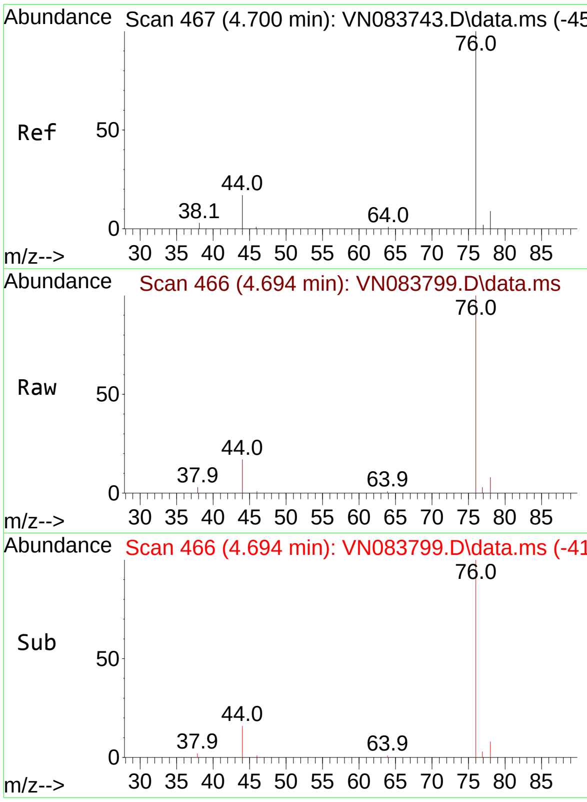


#16
Acetone
Concen: 89.998 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 43 Resp: 81193

Ion	Ratio	Lower	Upper
43	100		
58	31.7	23.7	35.5






```
#17
Carbon Disulfide
Concen:   17.345 ug/l
RT:   4.694 min  Scan# 4
Delta R.T.  -0.006 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

Tgt Ion: 76 Resp:   7832
Ion  Ratio  Lower  Upper
 76  100
 78    8.2    7.1   10.7
```

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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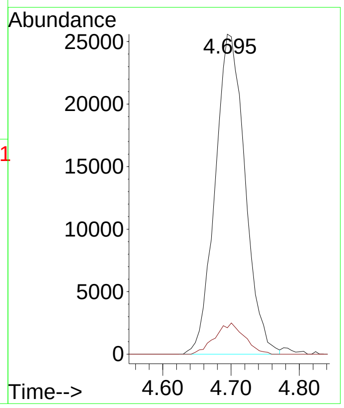

1
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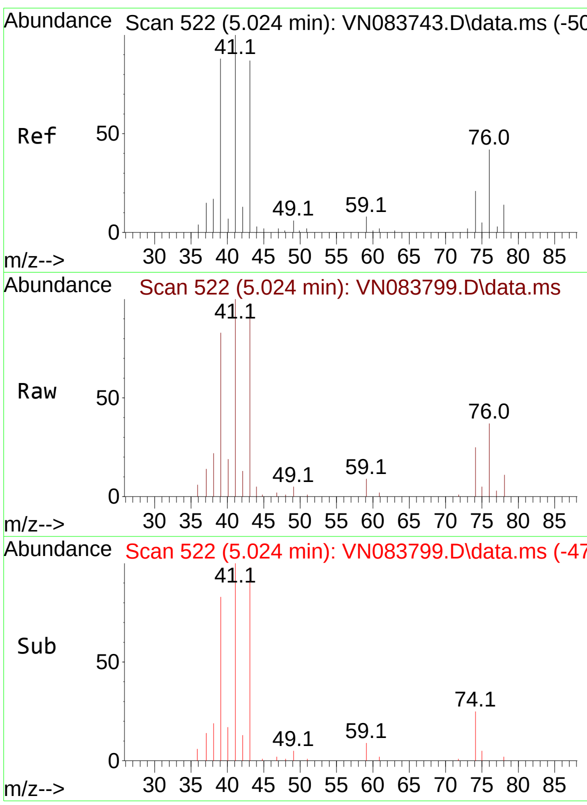
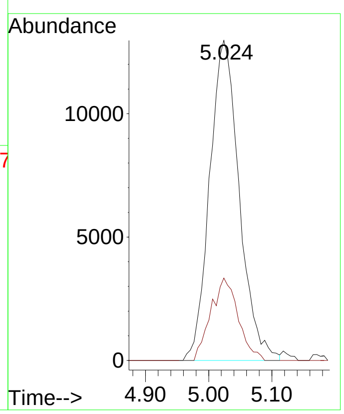
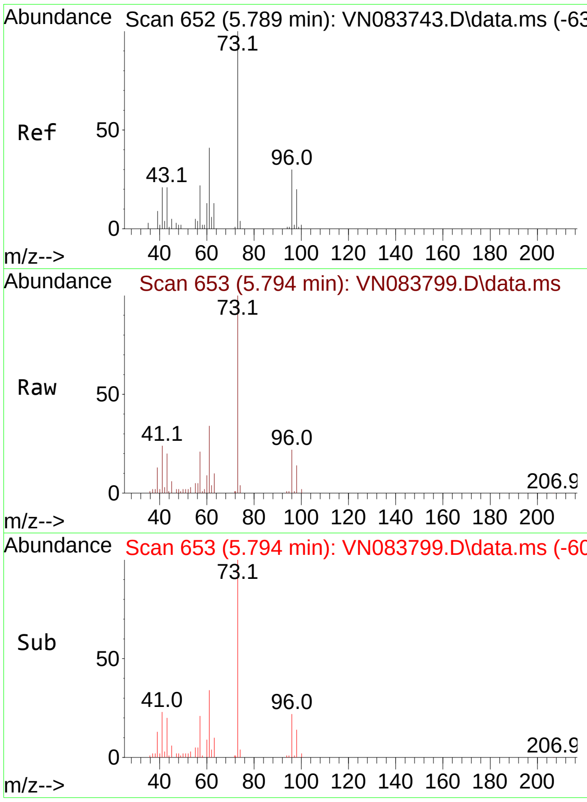



```
#18
Methyl Acetate
Concen:   21.440 ug/l
RT:   5.024 min  Scan# 522
Delta R.T.  -0.000 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

Tgt Ion: 43 Resp:   42293
Ion  Ratio  Lower  Upper
 43  100
 74   23.8   19.0   28.4
```





#19
Methyl tert-butyl Ether
Concen: 19.271 ug/l
RT: 5.794 min   Scan# 6
Delta R.T.   0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024   16:45

Tgt Ion: 73 Resp: 11257

Ion	Ratio	Lower	Upper
73	100		
57	20.7	17.0	25.6

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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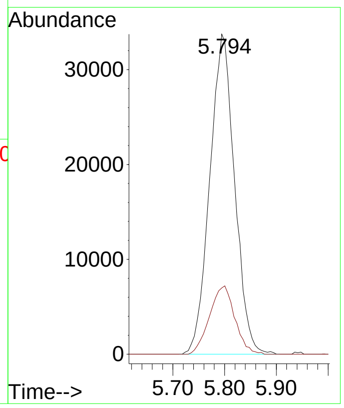
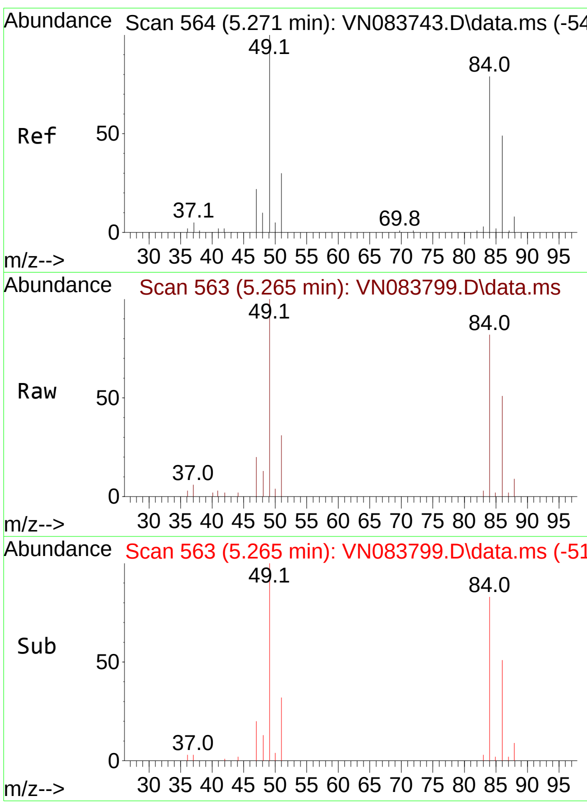
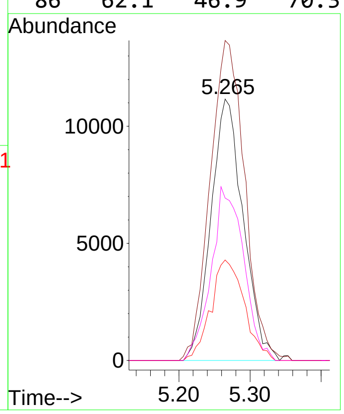




#20
Methylene Chloride
Concen: 19.065 ug/l
RT: 5.265 min   Scan# 563
Delta R.T.   -0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024   16:45

Tgt Ion: 84 Resp: 35197

Ion	Ratio	Lower	Upper
84	100		
49	122.4	93.4	140.0
51	38.4	29.2	43.8
86	62.1	46.9	70.3



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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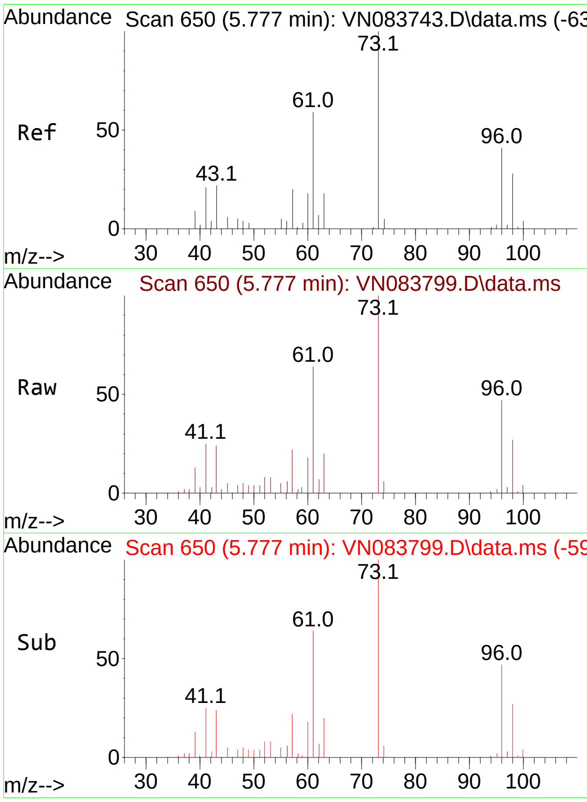
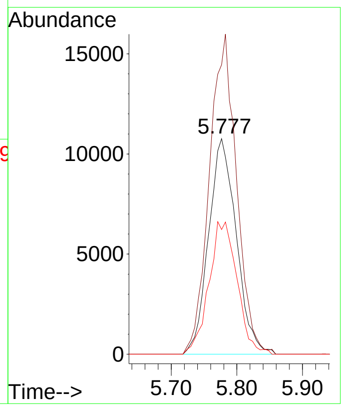
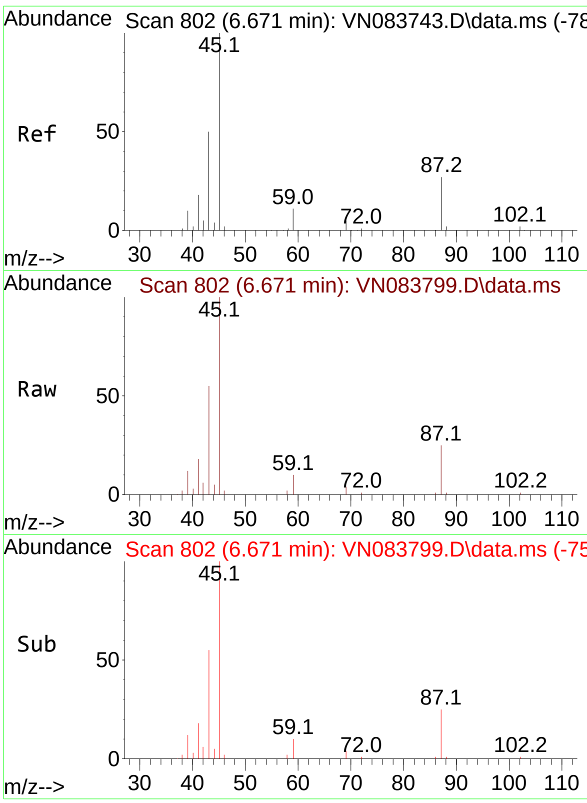


#21
trans-1,2-Dichloroethene
Concen: 18.251 ug/l
RT: 5.777 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 96 Resp: 3157

Ion	Ratio	Lower	Upper
96	100		
61	134.2	106.0	159.0
98	57.8	52.2	78.2

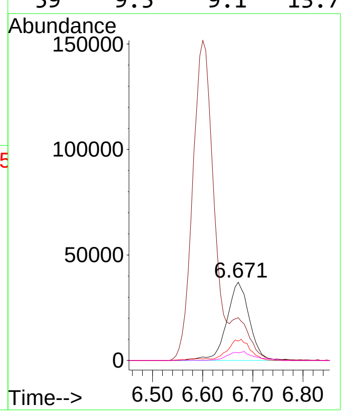




#22
Diisopropyl ether
Concen: 19.522 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 45 Resp: 115593

Ion	Ratio	Lower	Upper
45	100		
43	53.1	43.4	65.0
87	24.8	22.6	33.8
59	9.5	9.1	13.7



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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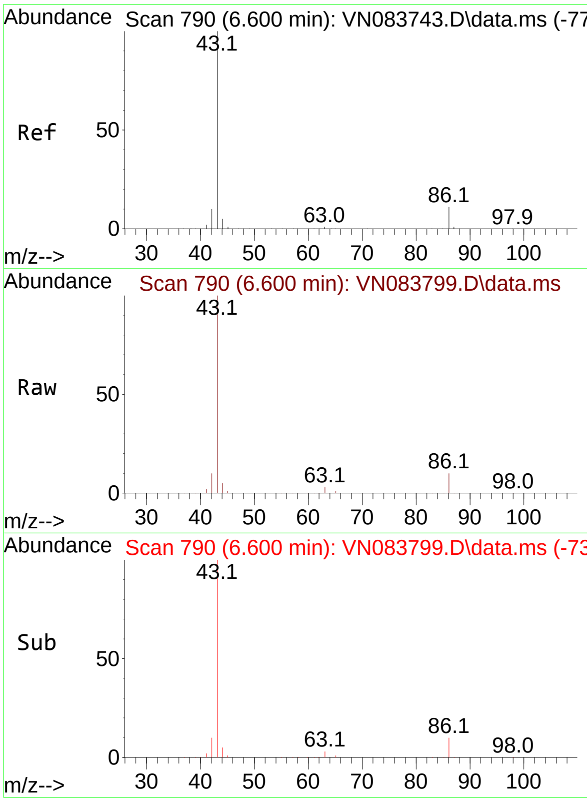
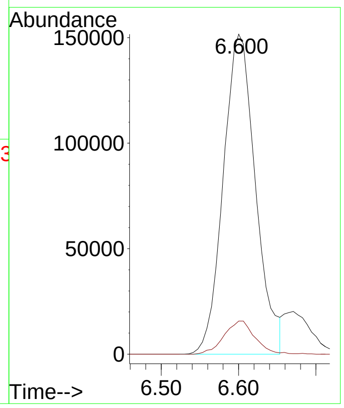
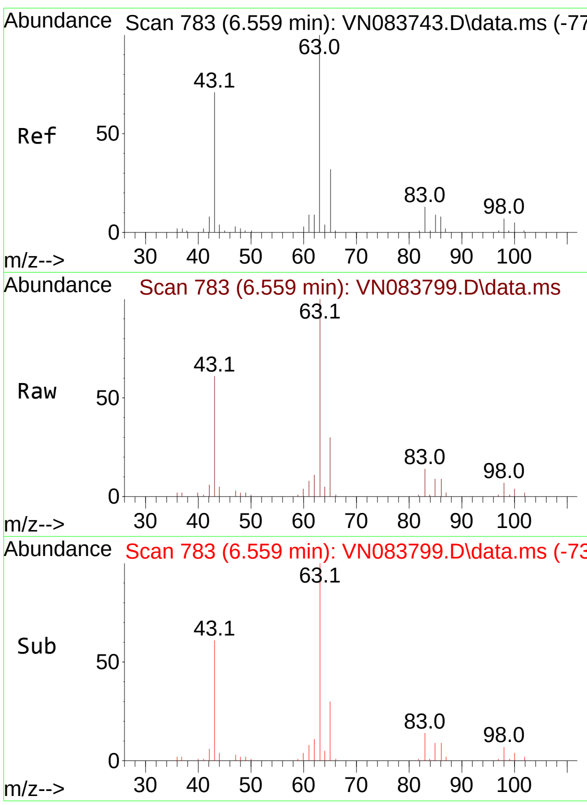


#23
Vinyl Acetate
Concen: 101.605 ug/l
RT: 6.600 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 43 Resp: 44058

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.7	13.1

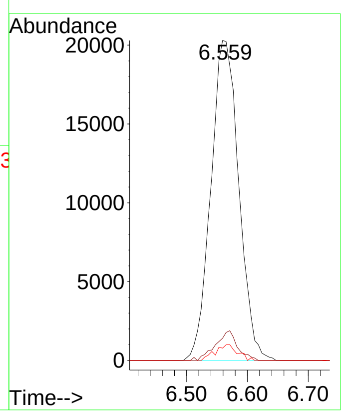


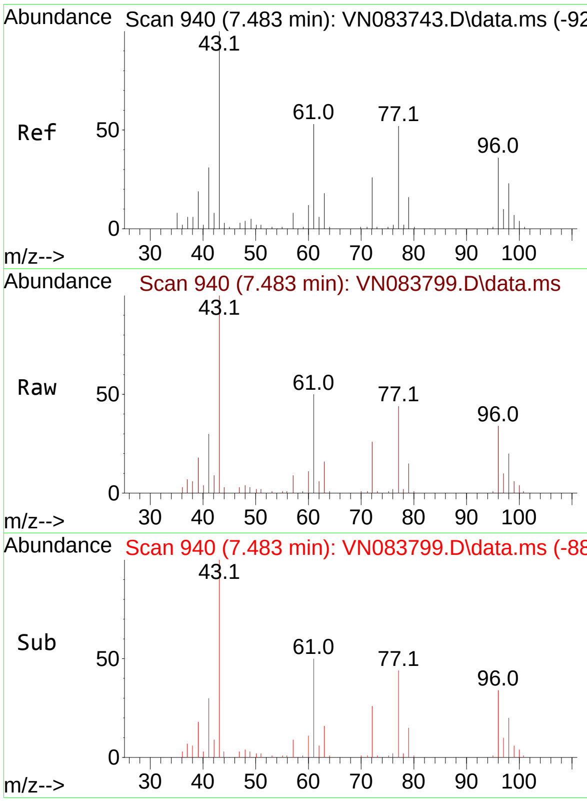


#24
1,1-Dichloroethane
Concen: 19.037 ug/l
RT: 6.559 min Scan# 783
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 63 Resp: 64942

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.4
100	3.8	2.5	7.5





#25
2-Butanone
Concen: 97.785 ug/l
RT: 7.483 min   Scan# 94
Delta R.T.   -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024   16:45

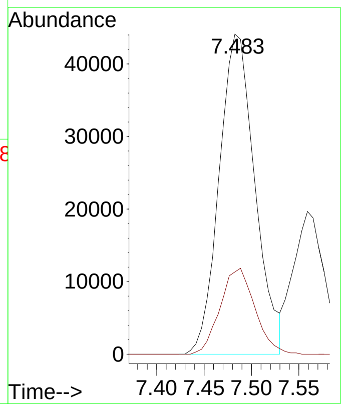
Tgt Ion: 43 Resp: 11594

Ion	Ratio	Lower	Upper
43	100		
72	25.7	20.8	31.2

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone   09/12/2024
Supervised By :Mahesh Dadoda   09/12/2024



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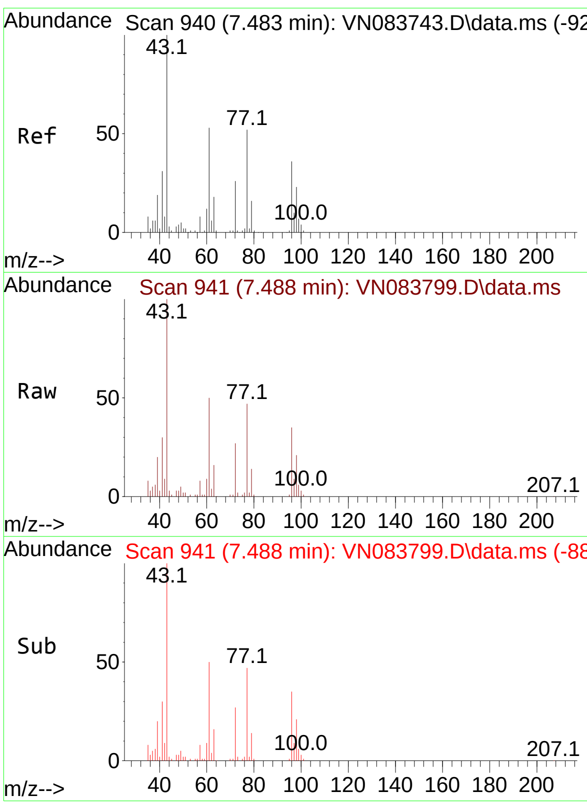
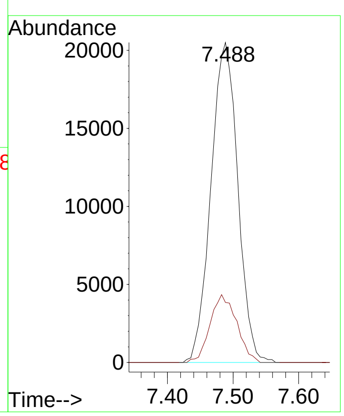


#26
2,2-Dichloropropane
Concen: 18.553 ug/l
RT: 7.488 min   Scan# 941
Delta R.T.   0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024   16:45

Tgt Ion: 77 Resp: 58288

Ion	Ratio	Lower	Upper
77	100		
97	21.0	10.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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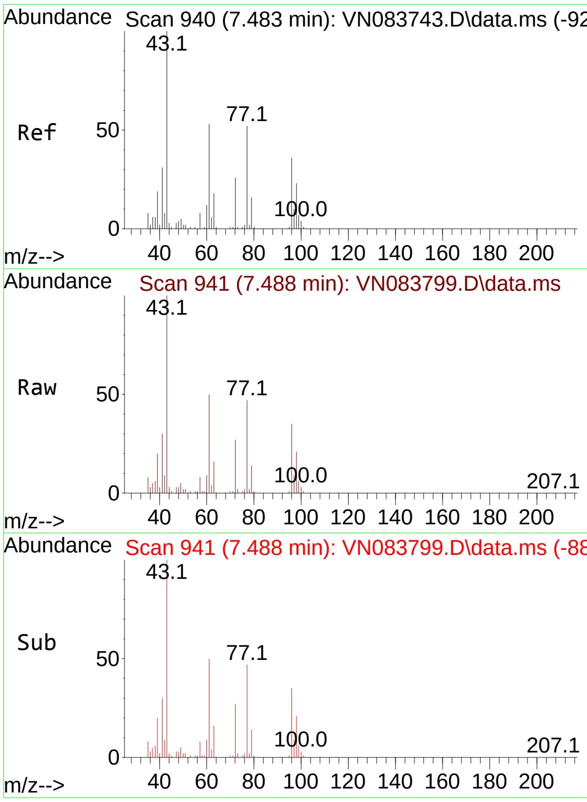


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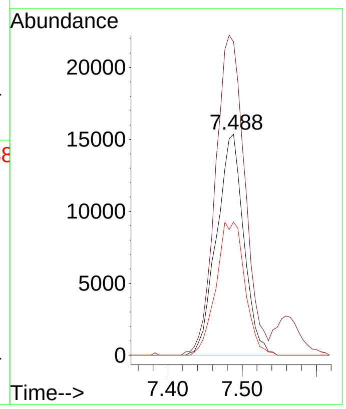
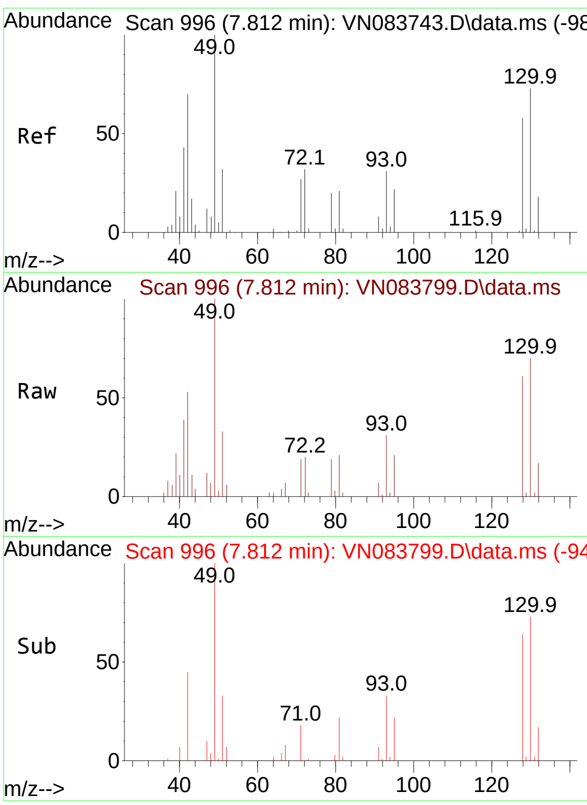
#27
cis-1,2-Dichloroethene
Concen:   19.068 ug/l
RT:   7.488 min   Scan# 94
Delta R.T.   0.006 min
Lab File:    VN083799.D
Acq: 11 Sep 2024   16:45

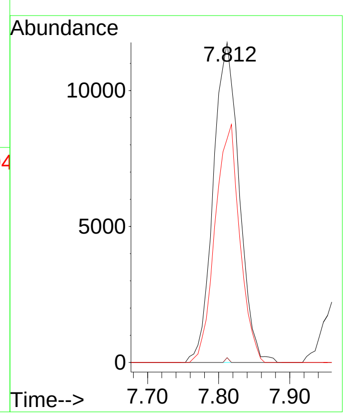
Tgt Ion: 96 Resp:   3916
Ion   Ratio   Lower   Upper
 96   100
 61   156.1     0.0   306.2
 98    63.9     0.0   128.6
```

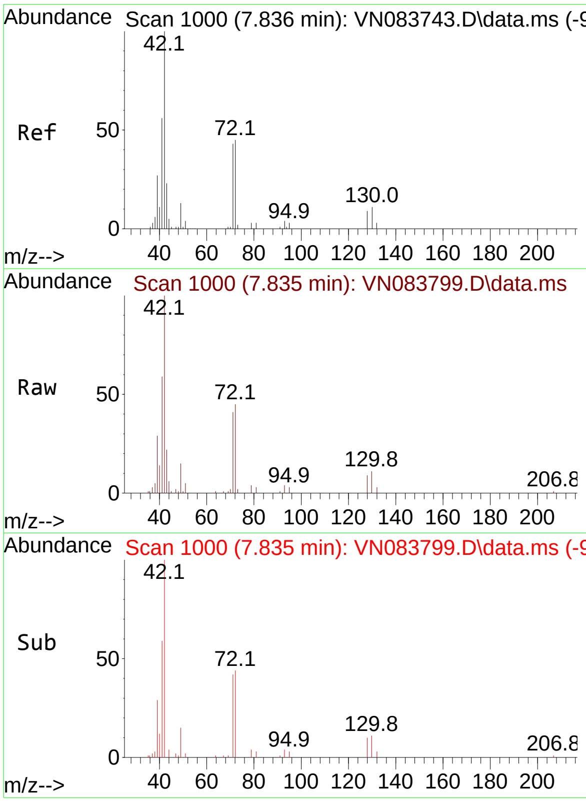





```
#28
Bromochloromethane
Concen:   20.788 ug/l
RT:   7.812 min   Scan# 996
Delta R.T.   -0.000 min
Lab File:    VN083799.D
Acq: 11 Sep 2024   16:45

Tgt Ion: 49 Resp:   29864
Ion   Ratio   Lower   Upper
 49   100
129     0.2     0.0     3.4
130    70.8    60.2    90.2
```






```
#29
Tetrahydrofuran
Concen:   101.965 ug/l
RT:    7.835 min   Scan# 1
Delta R.T.   -0.000 min
Lab File:    VN083799.D
Acq: 11 Sep 2024   16:45

Tgt Ion: 42 Resp:    7149
Ion   Ratio   Lower   Upper
 42   100
 72    44.9    35.9    53.9
 71    42.0    33.9    50.9
```

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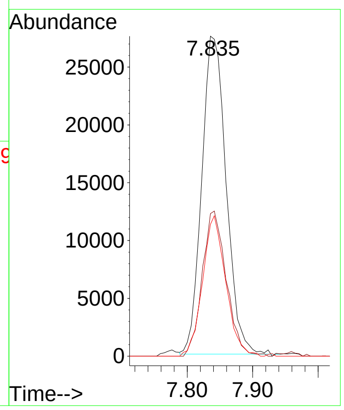
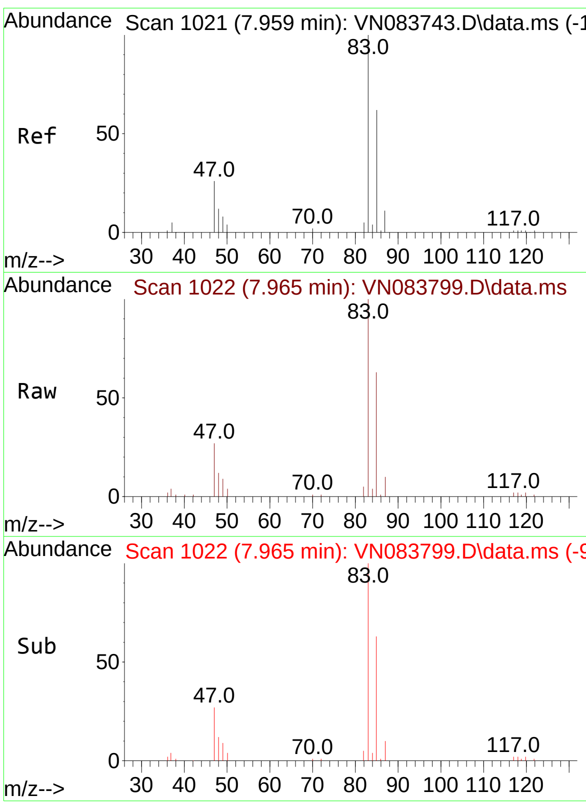
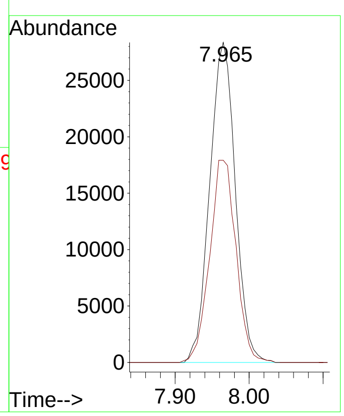





```
#30
Chloroform
Concen:    18.872 ug/l
RT:    7.965 min   Scan# 1022
Delta R.T.   0.006 min
Lab File:    VN083799.D
Acq: 11 Sep 2024   16:45

Tgt Ion: 83 Resp:    68347
Ion   Ratio   Lower   Upper
 83   100
 85    63.2    52.8    79.2
```



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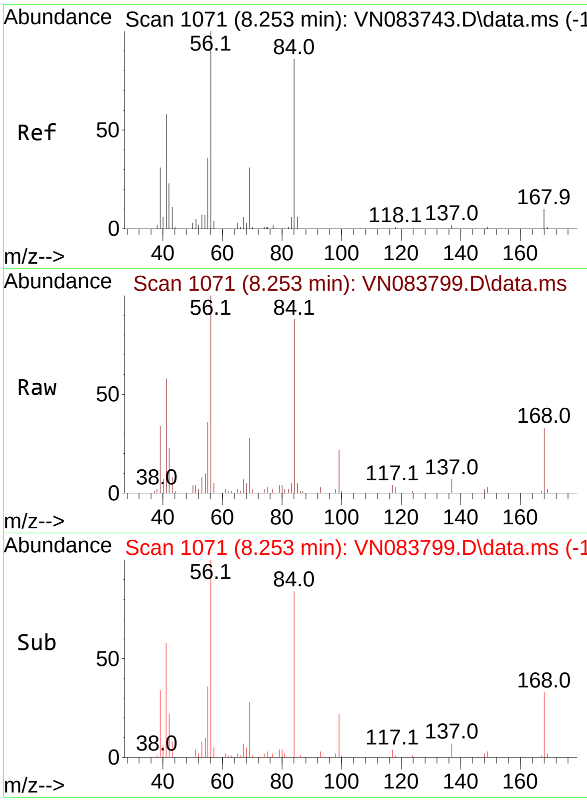
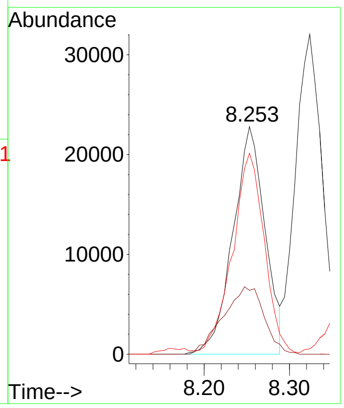
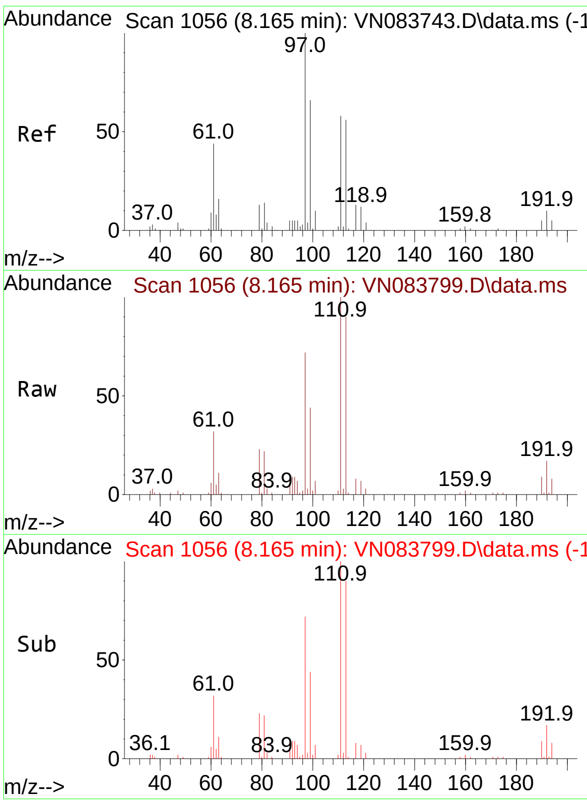


#31
Cyclohexane
Concen: 18.353 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 56 Resp: 5969

Ion	Ratio	Lower	Upper
56	100		
69	28.1	26.9	40.3
84	86.2	69.2	103.8

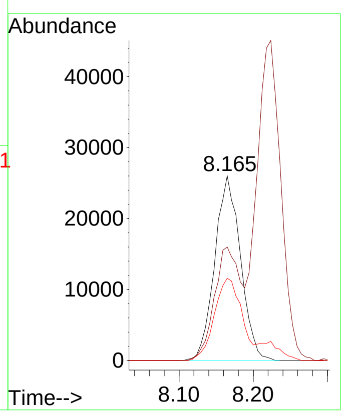




#32
1,1,1-Trichloroethane
Concen: 18.809 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 97 Resp: 62636

Ion	Ratio	Lower	Upper
97	100		
99	63.1	52.3	78.5
61	48.3	38.2	57.2



Instrument :
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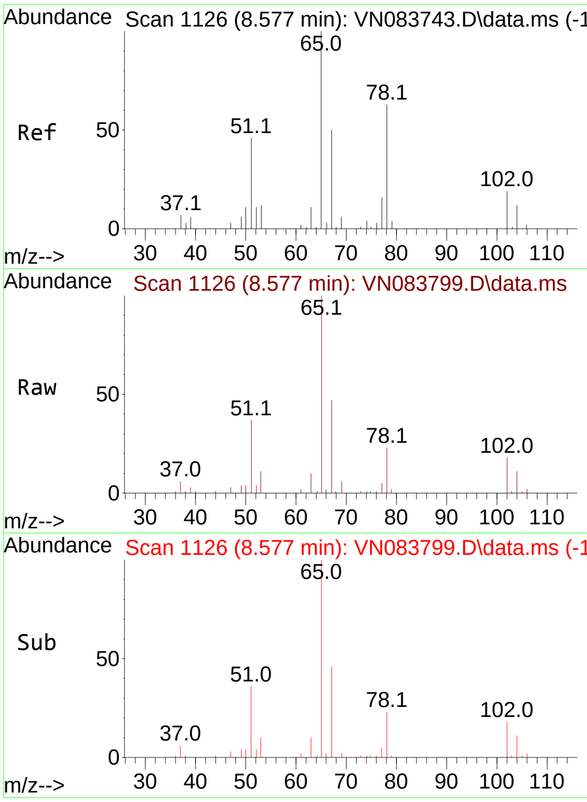
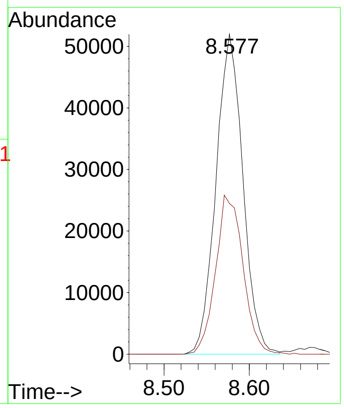
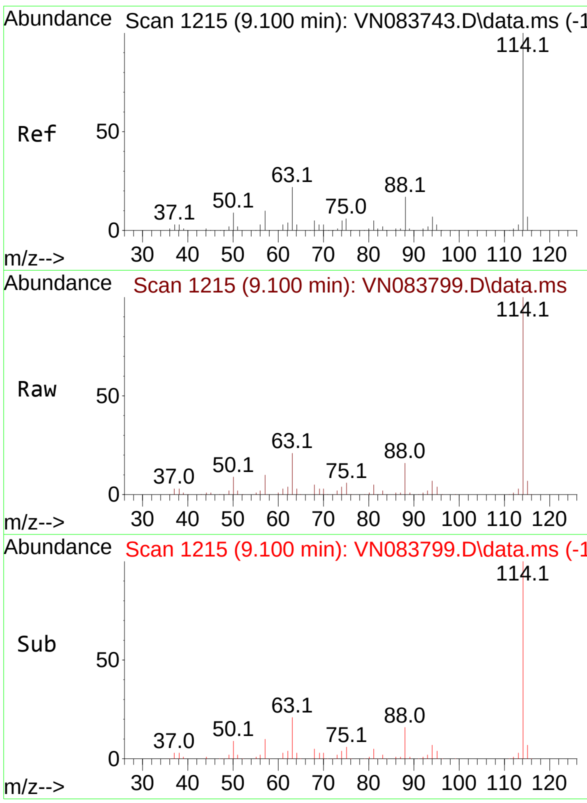


#33
1,2-Dichloroethane-d4
Concen: 50.635 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 65 Resp: 11395

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	100.8

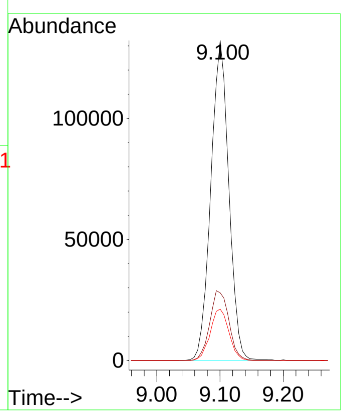




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:114 Resp: 261095

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	43.4
88	16.1	0.0	32.6



Instrument :
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ClientSampleId :
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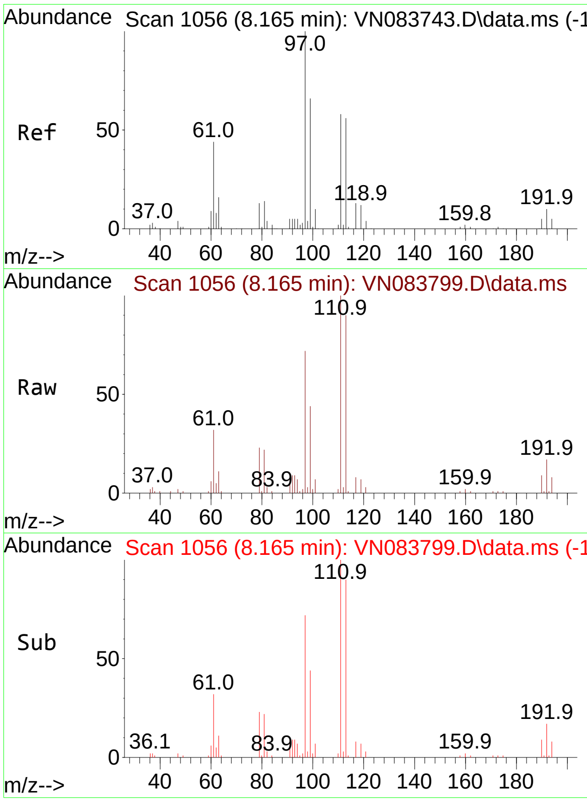
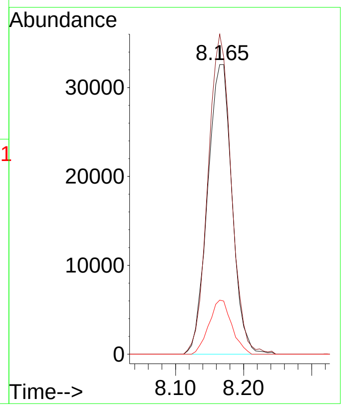
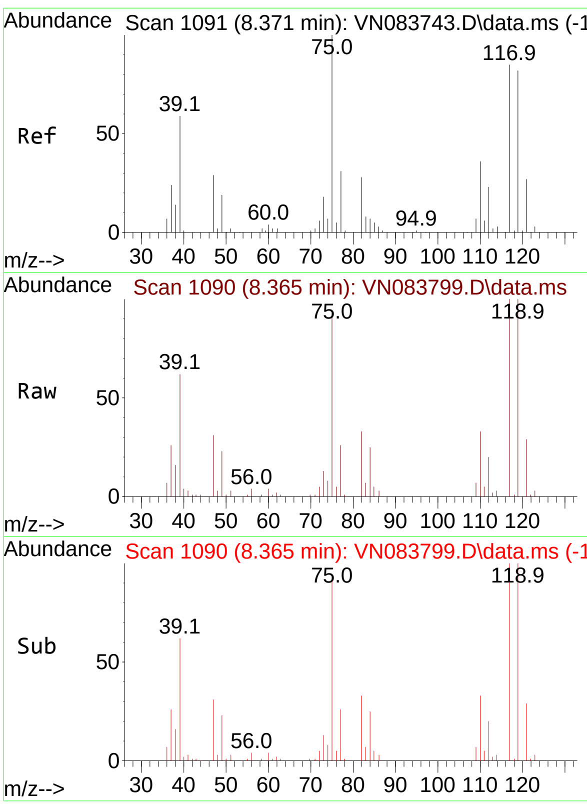


#35
Dibromofluoromethane
Concen: 48.679 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:113 Resp: 8136

Ion	Ratio	Lower	Upper
113	100		
111	105.5	82.6	124.0
192	17.4	14.3	21.5

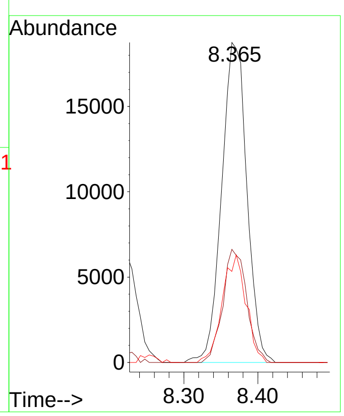




#36
1,1-Dichloropropene
Concen: 17.679 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 75 Resp: 44477

Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.7	50.1
77	31.7	25.2	37.8



Instrument :
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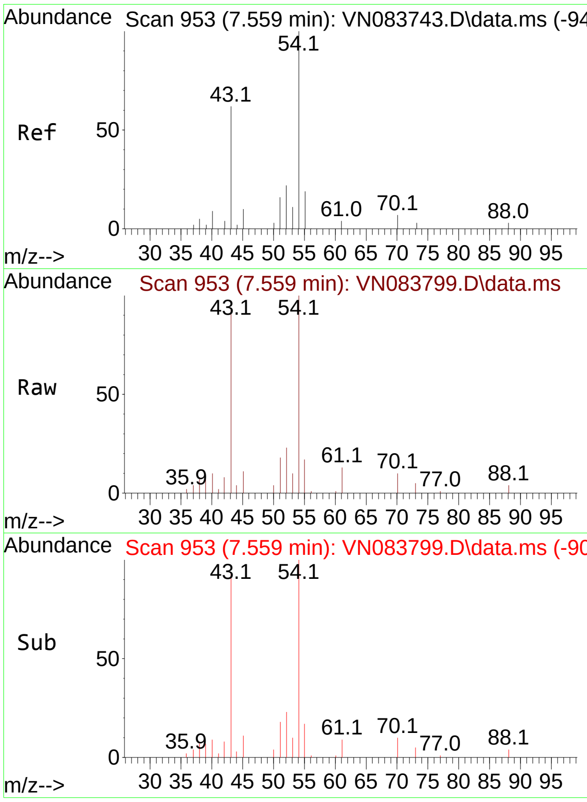
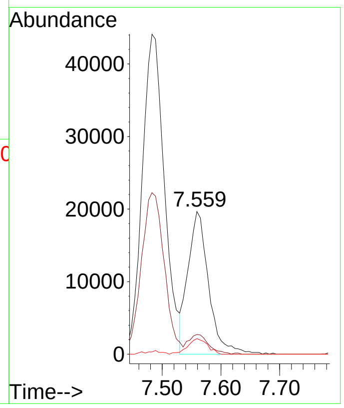
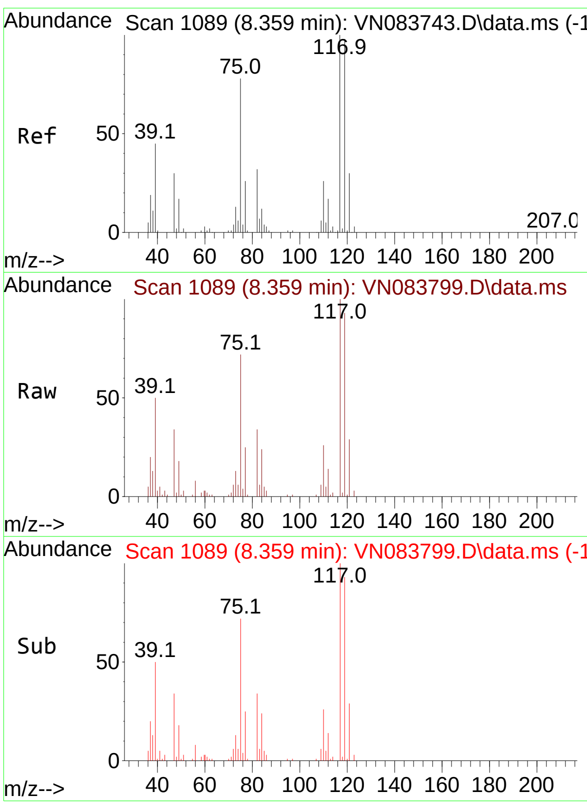


#37
Ethyl Acetate
Concen: 21.239 ug/l
RT: 7.559 min Scan# 9!
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 43 Resp: 4850

Ion	Ratio	Lower	Upper
43	100		
61	13.3	11.1	16.7
70	10.3	8.8	13.2

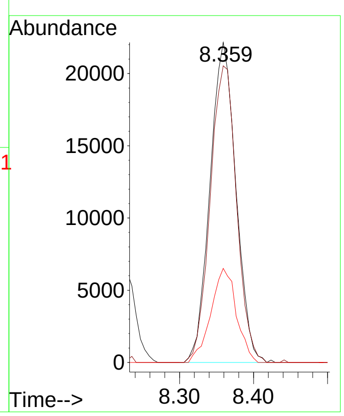


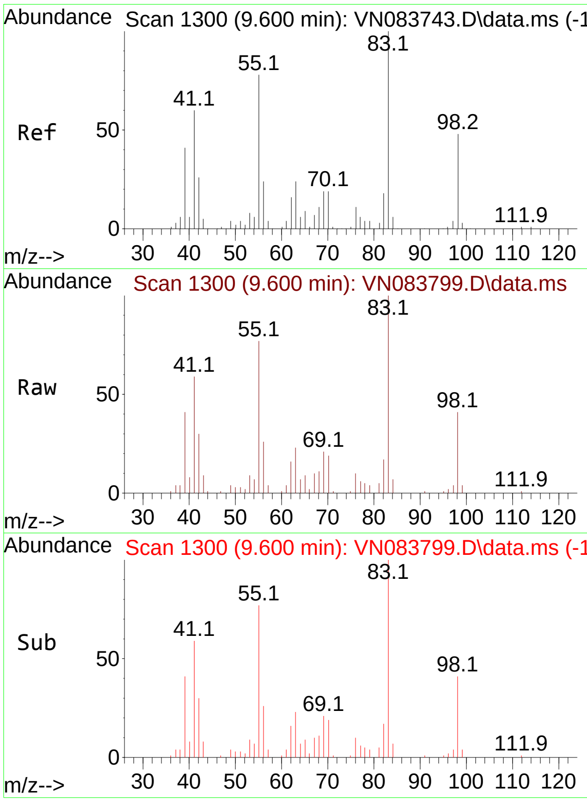


#38
Carbon Tetrachloride
Concen: 18.935 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:117 Resp: 54045

Ion	Ratio	Lower	Upper
117	100		
119	92.7	76.1	114.1
121	29.4	24.1	36.1





#39
Methylcyclohexane
Concen: 18.678 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 83 Resp: 5348

Ion	Ratio	Lower	Upper
83	100		
55	77.1	62.2	93.4
98	40.6	37.6	56.4

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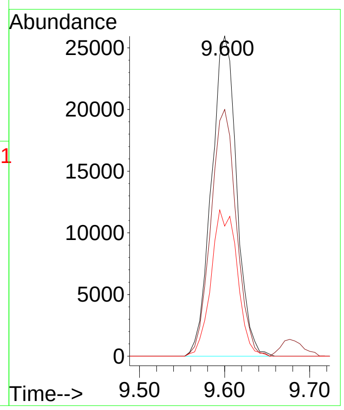

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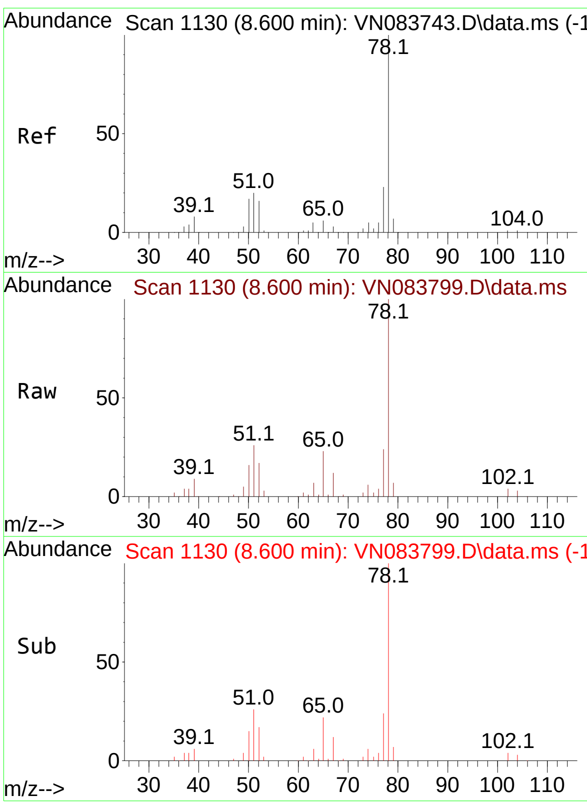
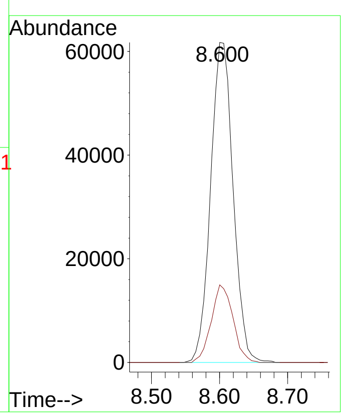


#40
Benzene
Concen: 18.799 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 78 Resp: 142354

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.0	28.6



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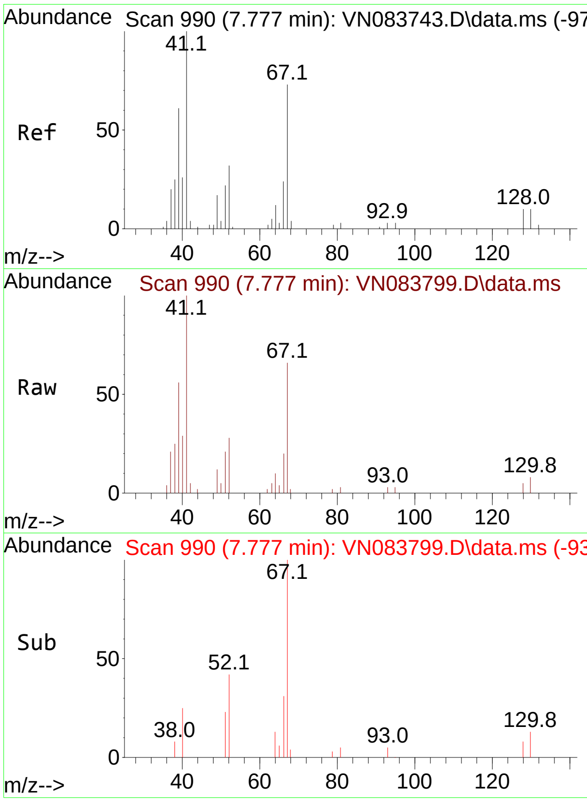
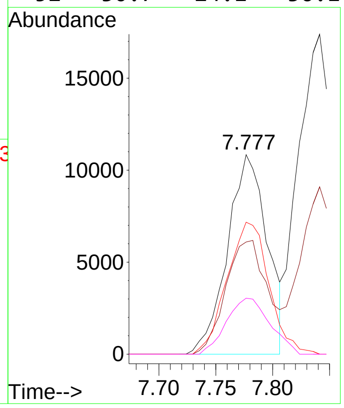
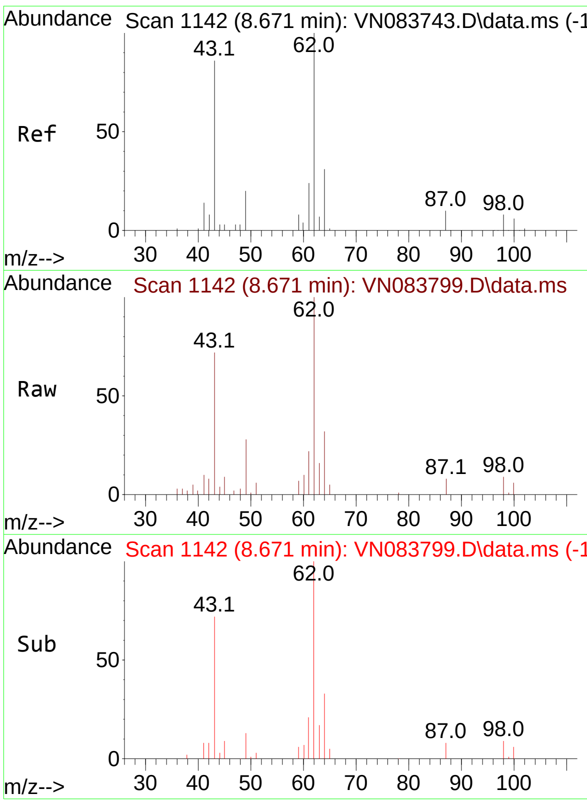


#41
Methacrylonitrile
Concen: 19.485 ug/l
RT: 7.777 min Scan# 99
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 41 Resp: 2631

Ion	Ratio	Lower	Upper
41	100		
39	59.7	45.4	68.2
67	69.9	55.9	83.9
52	30.7	24.1	36.1

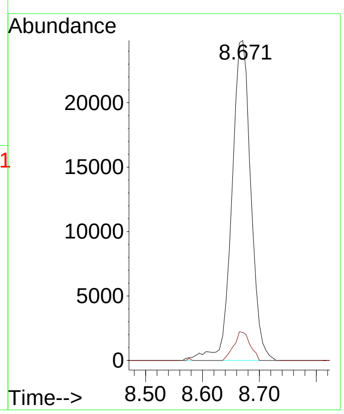


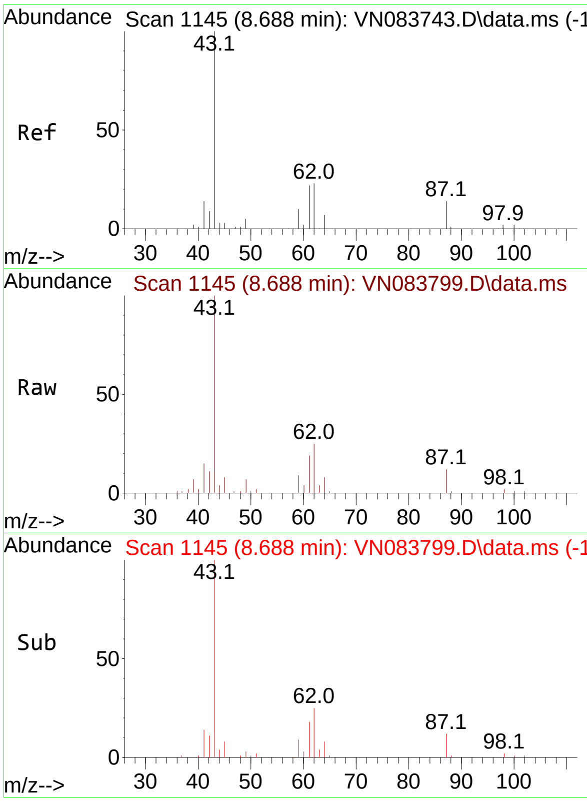


#42
1,2-Dichloroethane
Concen: 20.469 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 62 Resp: 57918

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	16.6

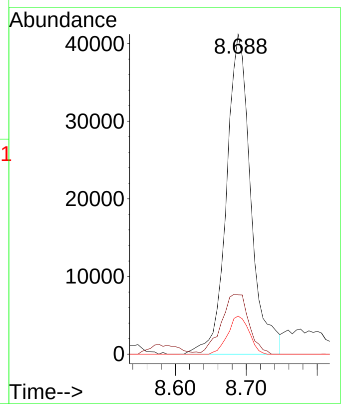




#43
Isopropyl Acetate
Concen: 23.761 ug/l
RT: 8.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 43 Resp: 9833

Ion	Ratio	Lower	Upper
43	100		
61	21.1	19.4	29.0
87	10.4	9.8	14.6



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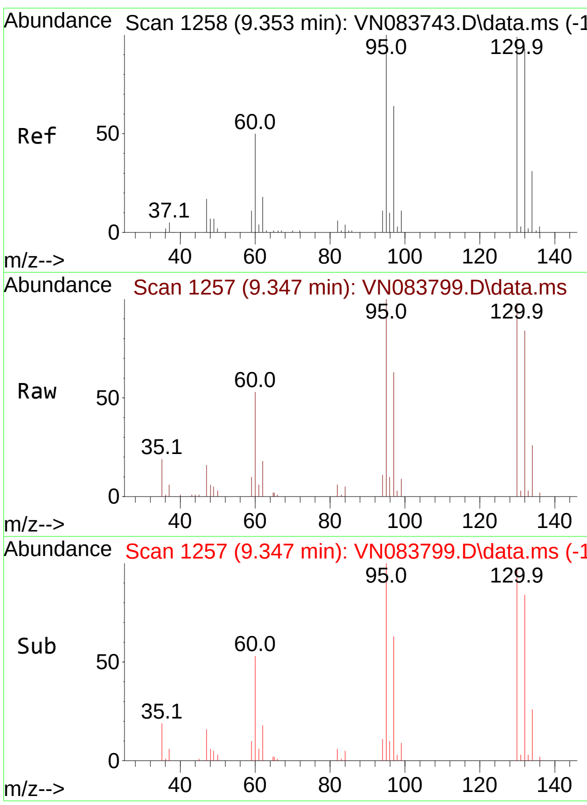
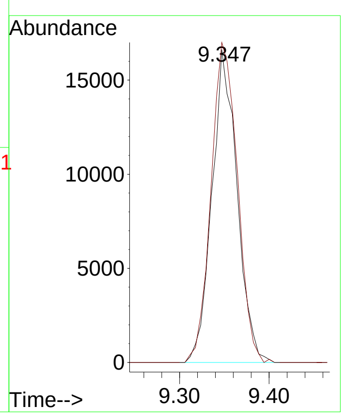
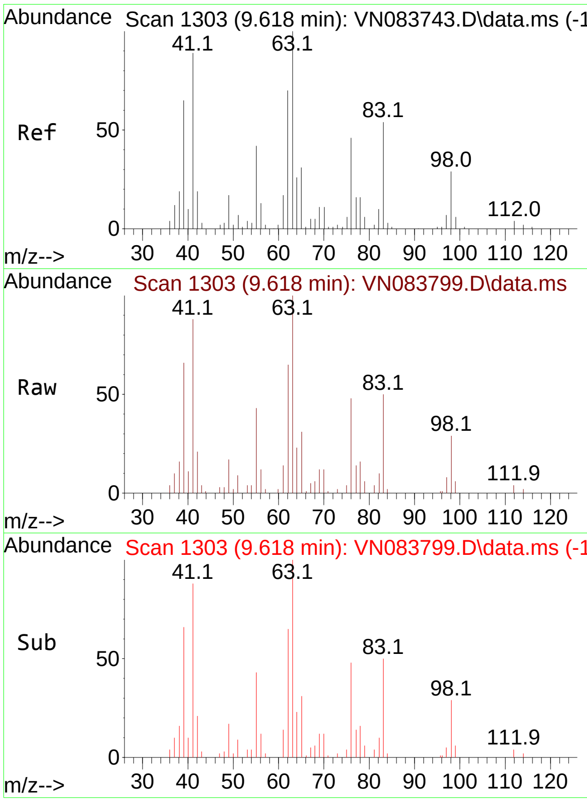


#44
Trichloroethene
Concen: 18.450 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:130 Resp: 32354

Ion	Ratio	Lower	Upper
130	100		
95	102.3	0.0	200.4





#45
1,2-Dichloropropane
Concen: 19.795 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 63 Resp: 3622

Ion	Ratio	Lower	Upper
63	100		
65	30.7	25.9	38.9

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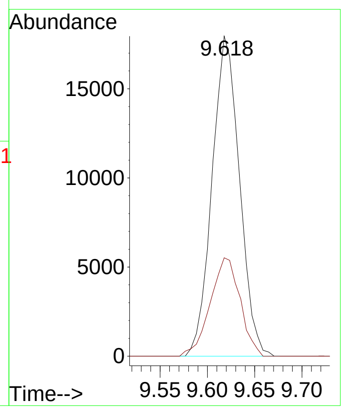
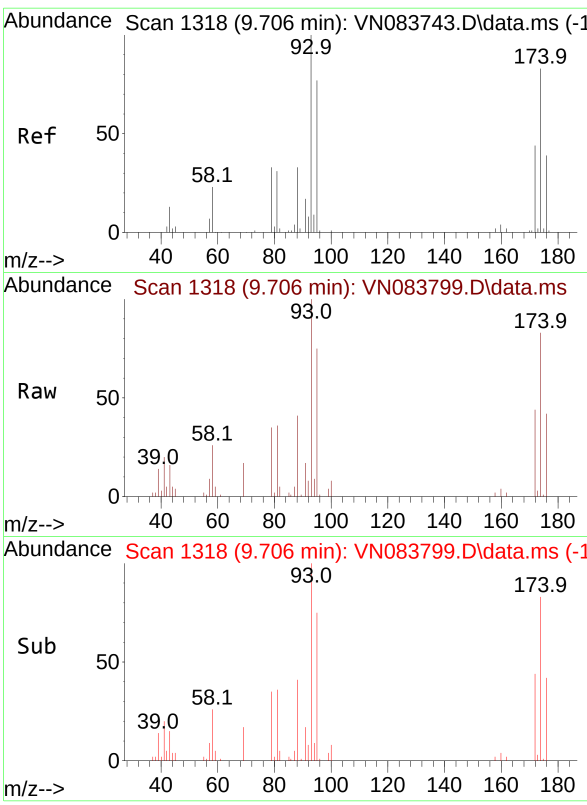
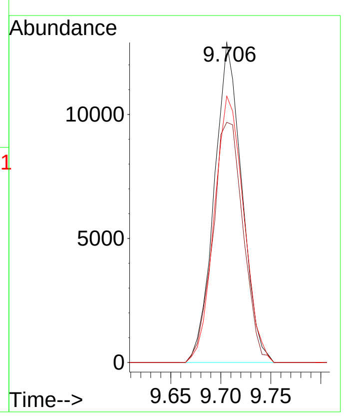




#46
Dibromomethane
Concen: 19.308 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 93 Resp: 24752

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.3	97.9
174	88.8	71.0	106.4



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
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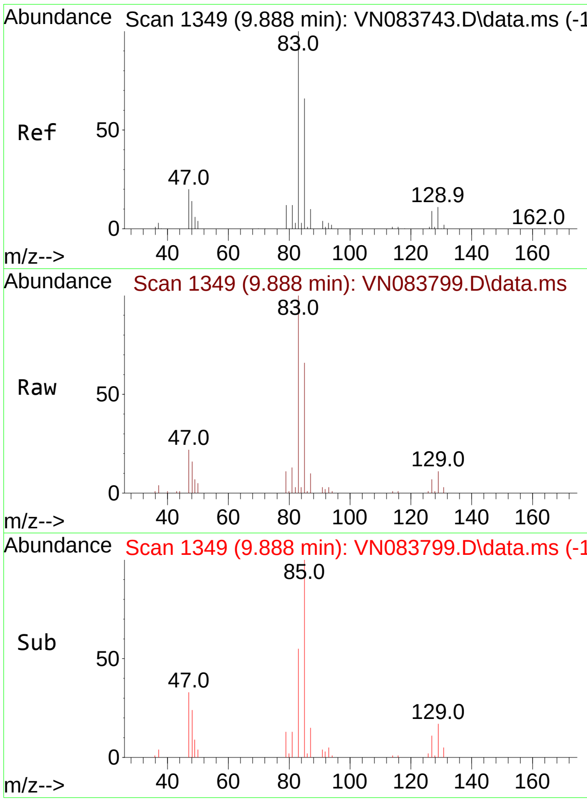
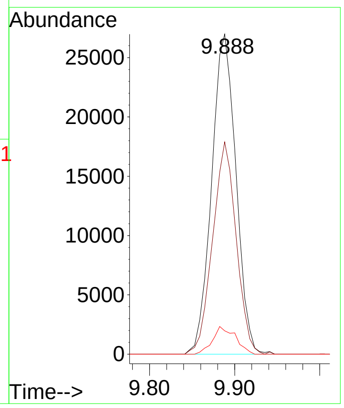
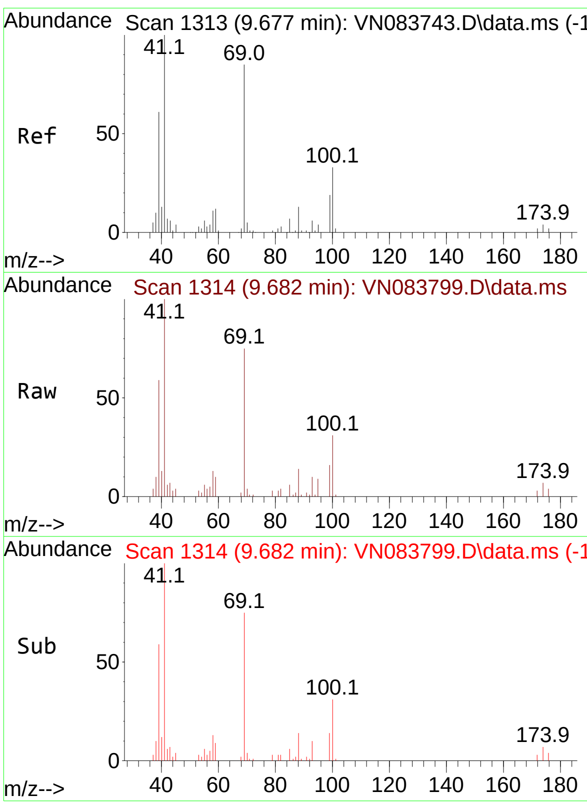



```
#47
Bromodichloromethane
Concen:   19.319 ug/l
RT:    9.888 min   Scan# 1
Delta R.T.   -0.000 min
Lab File:    VN083799.D
Acq: 11 Sep 2024   16:45

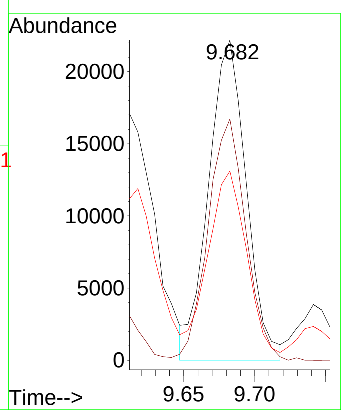
Tgt Ion: 83 Resp:   5359
Ion   Ratio   Lower   Upper
 83   100
 85    66.3    51.8    77.8
127     7.3     6.6     9.8
```

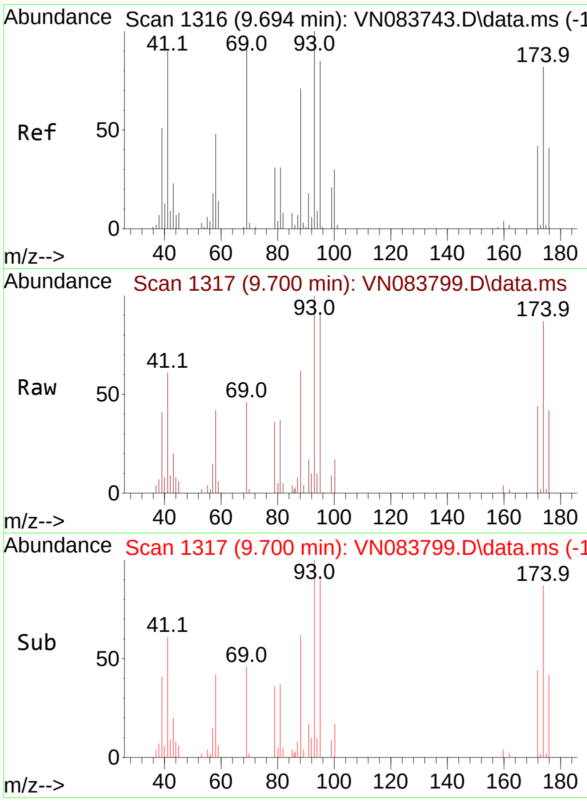





```
#48
Methyl methacrylate
Concen:   20.860 ug/l
RT:    9.682 min   Scan# 1314
Delta R.T.   0.006 min
Lab File:    VN083799.D
Acq: 11 Sep 2024   16:45

Tgt Ion: 41 Resp:   40956
Ion   Ratio   Lower   Upper
 41   100
 69    75.4    64.3    96.5
 39    62.0    48.9    73.3
```





#49
1,4-Dioxane
Concen: 423.334 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 88 Resp: 1367

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	72.3	57.1	85.7

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations
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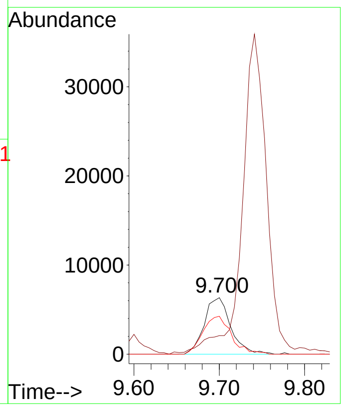
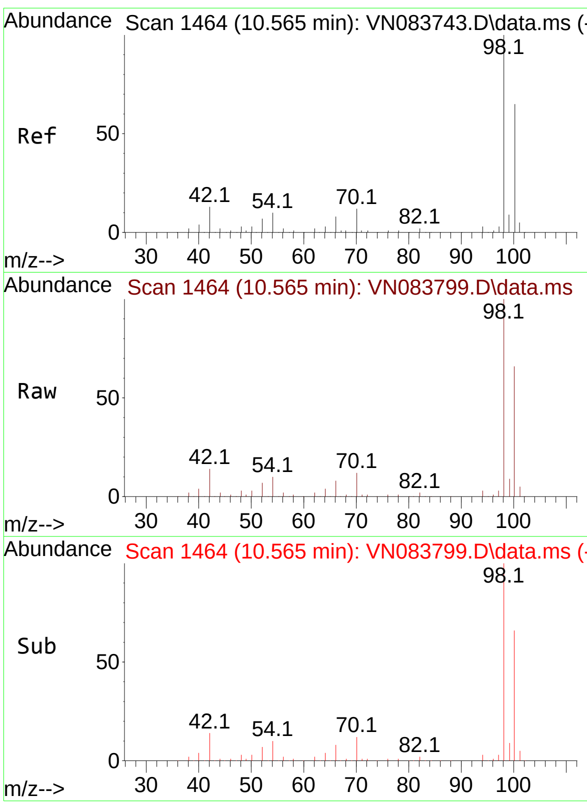
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

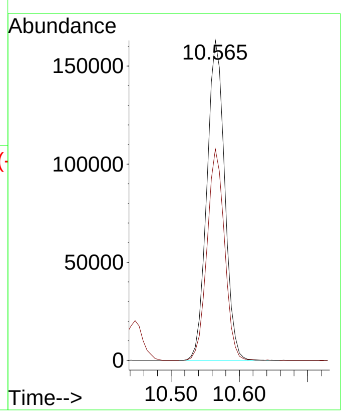




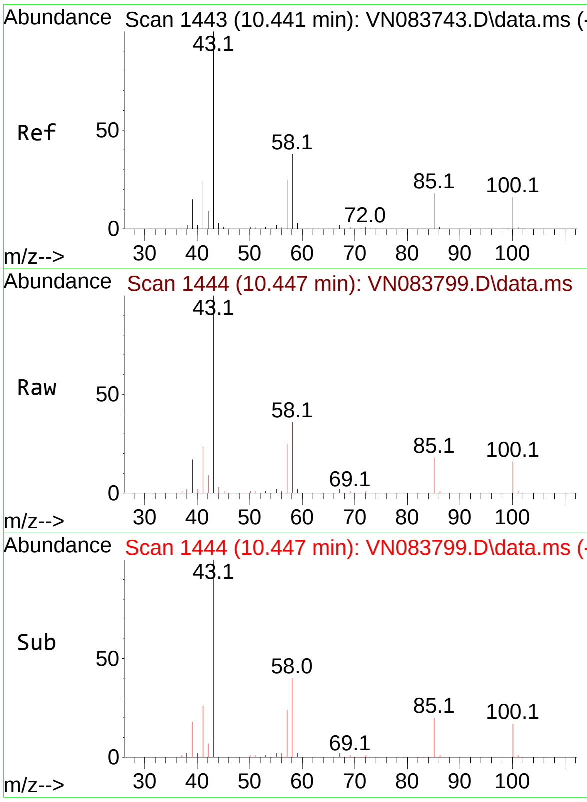
#50
Toluene-d8
Concen: 51.473 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 98 Resp: 297437

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#51
4-Methyl-2-Pentanone
Concen: 105.630 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 43 Resp: 23795

Ion	Ratio	Lower	Upper
43	100		
58	36.9	31.6	47.4

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations
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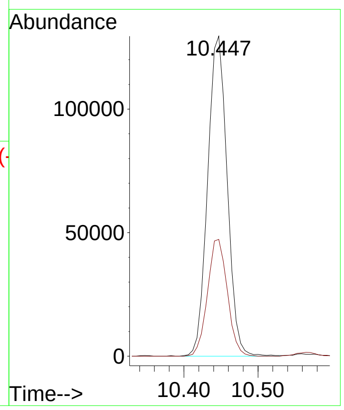

1
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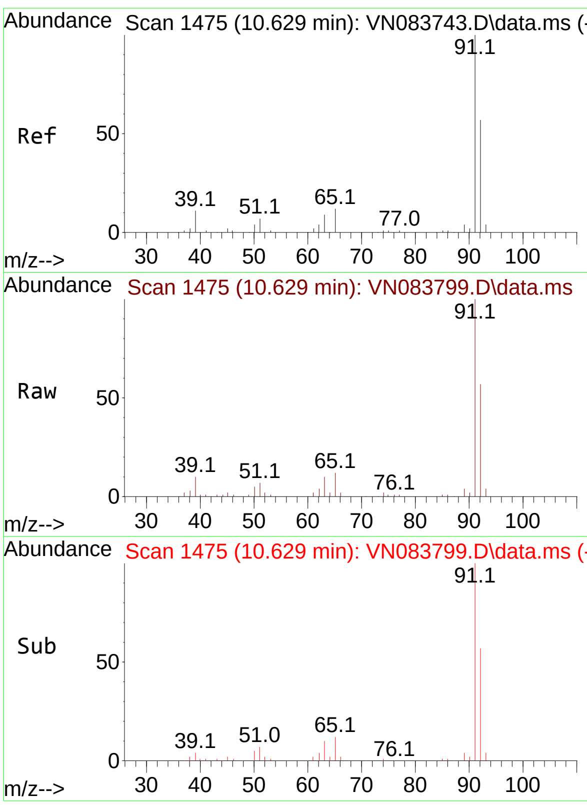
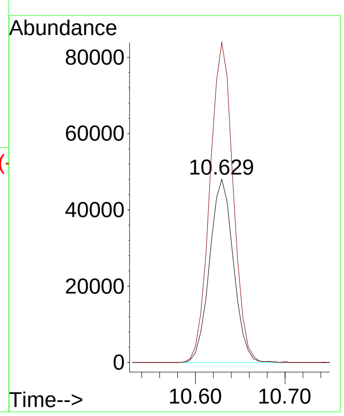


#52
Toluene
Concen: 19.086 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 92 Resp: 88404

Ion	Ratio	Lower	Upper
92	100		
91	171.2	134.7	202.1



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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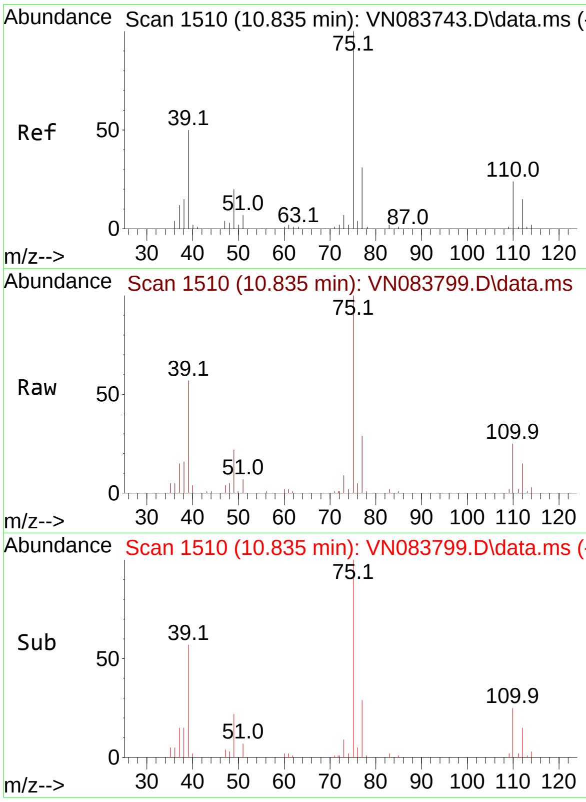
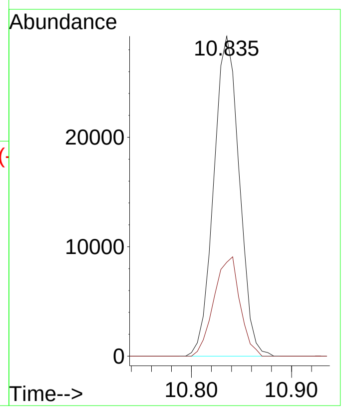
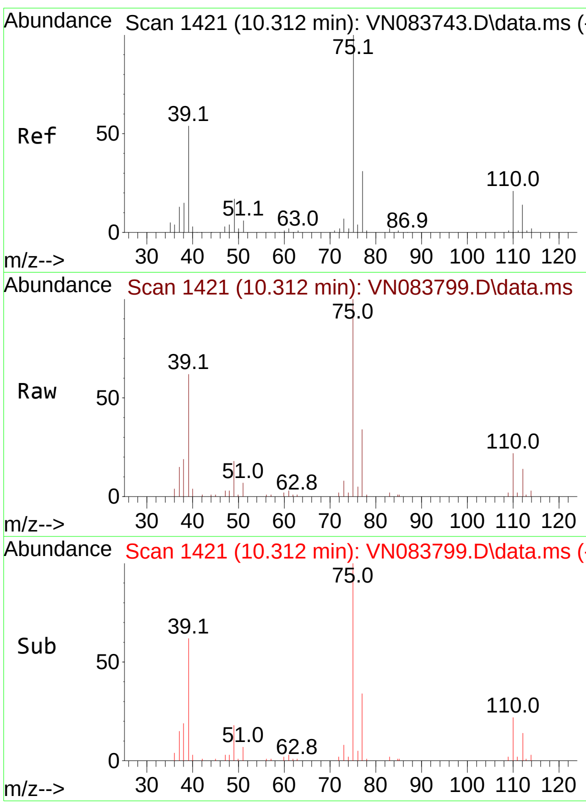


#53
t-1,3-Dichloropropene
Concen: 18.435 ug/l
RT: 10.835 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 75 Resp: 5184

Ion	Ratio	Lower	Upper
75	100		
77	29.4	25.8	38.6

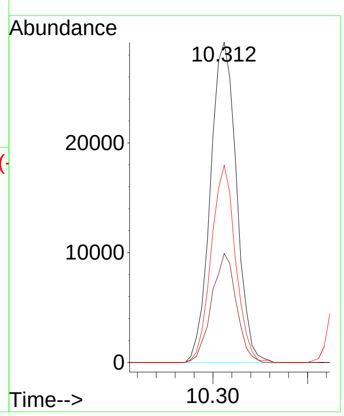




#54
cis-1,3-Dichloropropene
Concen: 18.878 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 75 Resp: 55765

Ion	Ratio	Lower	Upper
75	100		
77	34.0	25.0	37.6
39	61.6	42.6	64.0



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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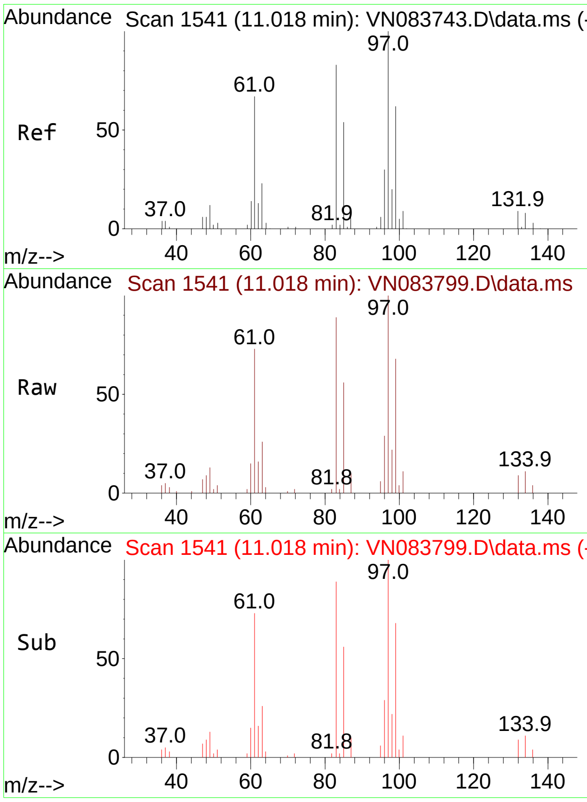
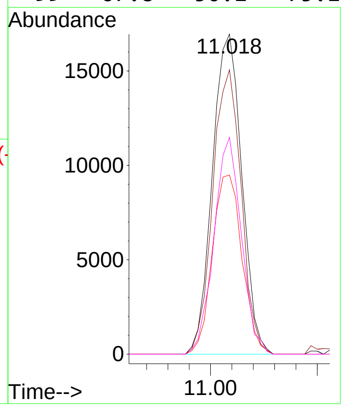
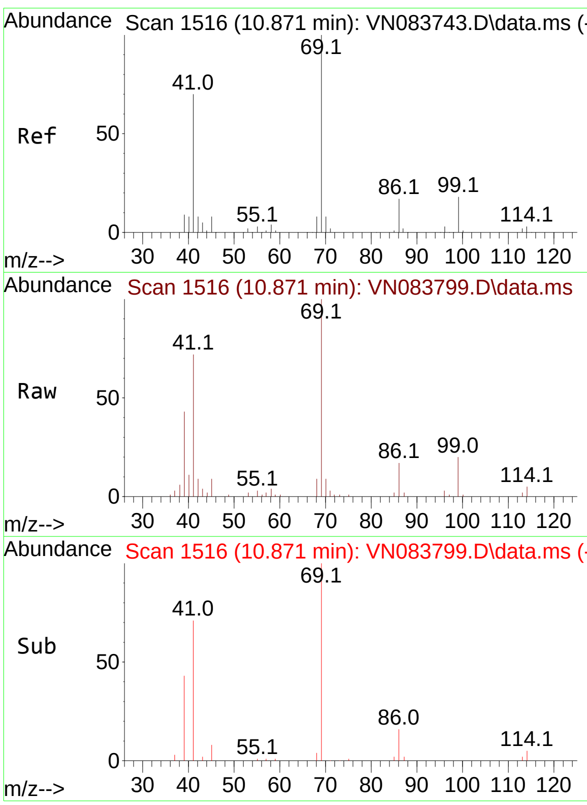


#55
1,1,2-Trichloroethane
Concen: 18.763 ug/l
RT: 11.018 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 97 Resp: 3244

Ion	Ratio	Lower	Upper
97	100		
83	88.8	67.5	101.3
85	56.0	44.2	66.2
99	67.8	50.1	75.1

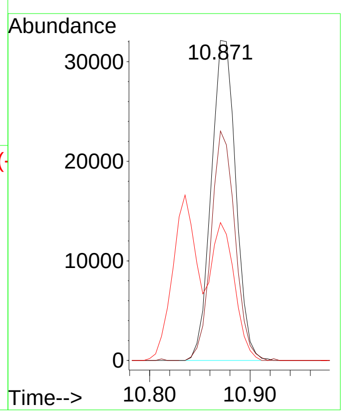




#56
Ethyl methacrylate
Concen: 20.606 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 69 Resp: 54822

Ion	Ratio	Lower	Upper
69	100		
41	69.7	53.9	80.9
39	41.6	32.6	48.8



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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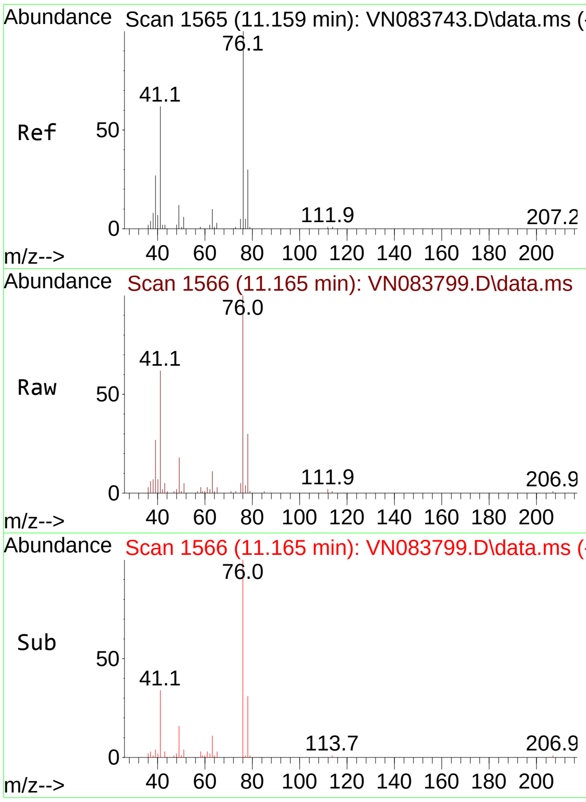
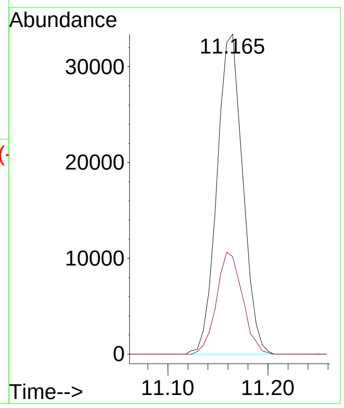
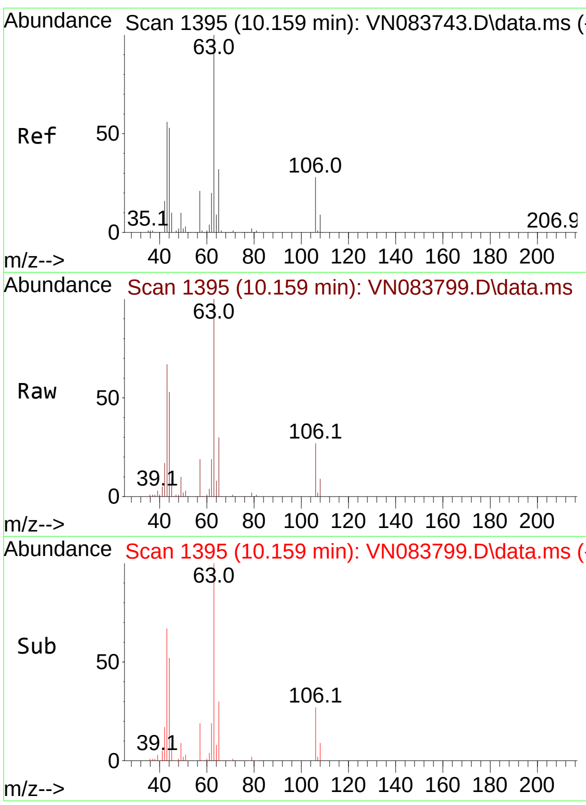



```
#57
1,3-Dichloropropane
Concen:   20.058 ug/l
RT:  11.165 min  Scan# 1
Delta R.T.  0.006 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

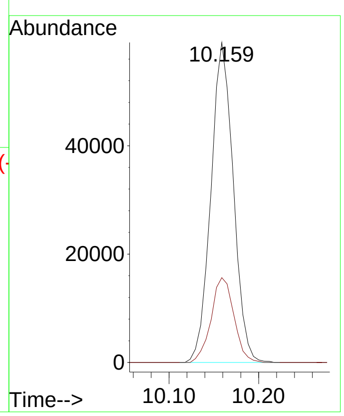
Tgt Ion: 76 Resp:   5961
Ion  Ratio  Lower  Upper
 76  100
 78   32.2   25.8   38.6
```






```
#58
2-Chloroethyl Vinyl ether
Concen:  107.165 ug/l
RT:  10.159 min  Scan# 1395
Delta R.T.  -0.000 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

Tgt Ion: 63 Resp:  102730
Ion  Ratio  Lower  Upper
 63  100
106   26.9   23.3   34.9
```



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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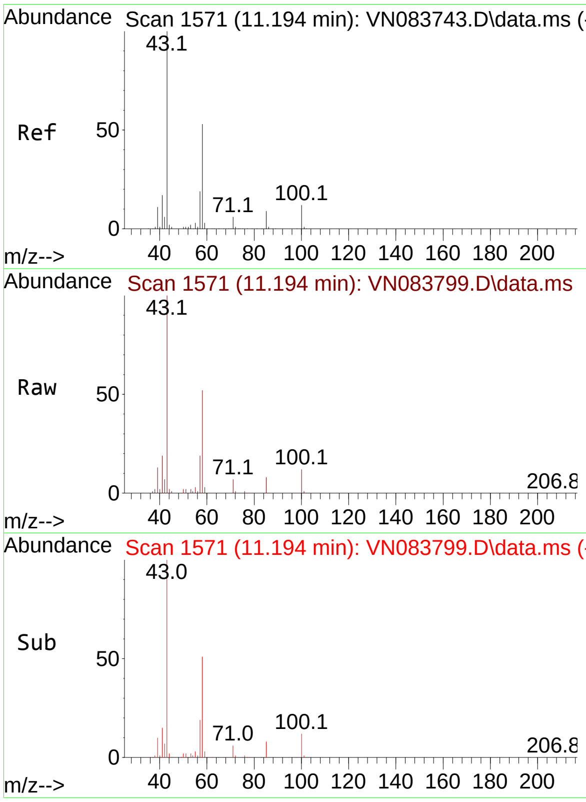
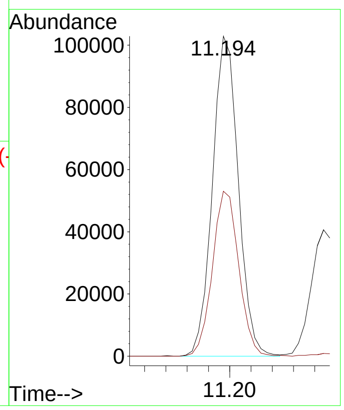
Supervised By :Mahesh Dadoda 09/12/2024

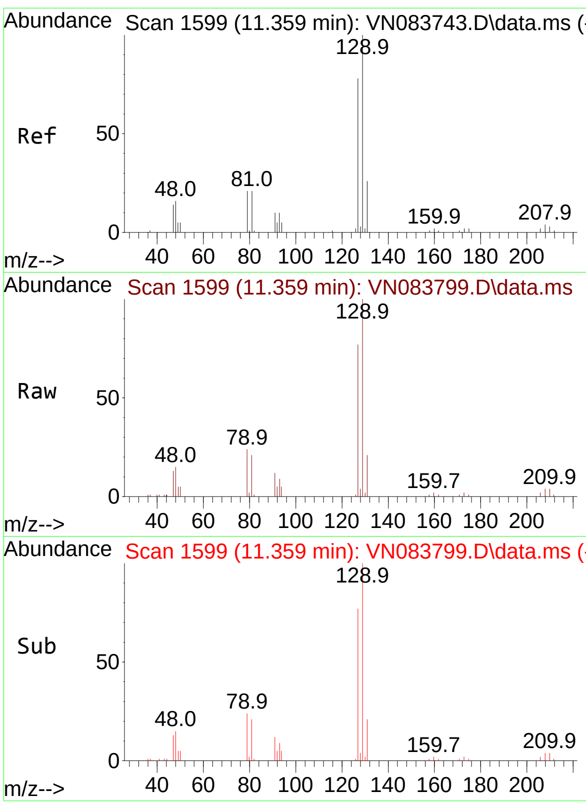


#59
2-Hexanone
Concen: 104.267 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 43 Resp: 173745

Ion	Ratio	Lower	Upper
43	100		
58	52.5	27.2	81.5

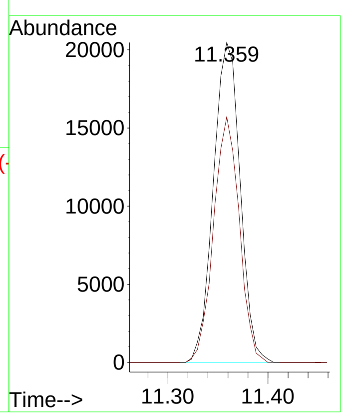




#60
Dibromochloromethane
Concen: 19.688 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:129 Resp: 38100

Ion	Ratio	Lower	Upper
129	100		
127	73.8	39.0	116.9



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations
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Reviewed By :John Carlone 09/12/2024
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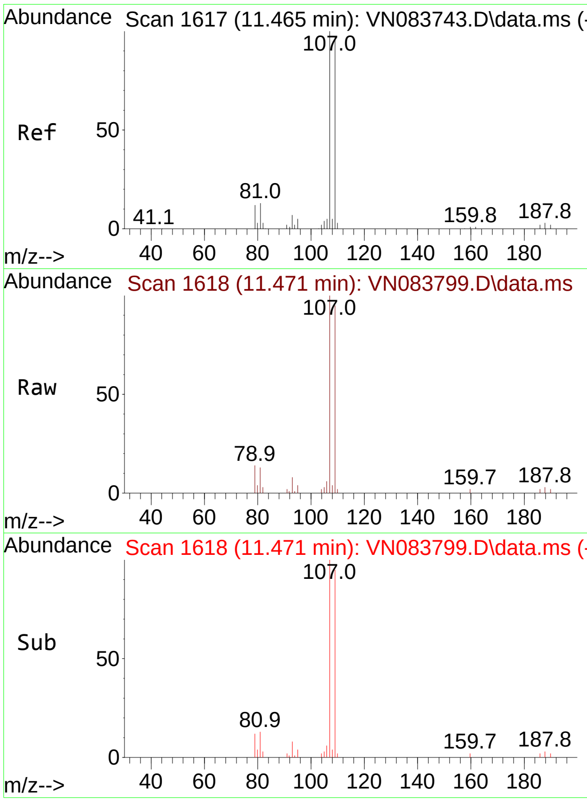
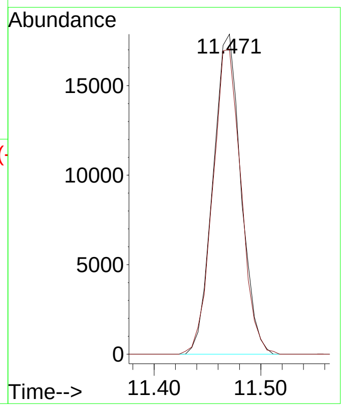
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

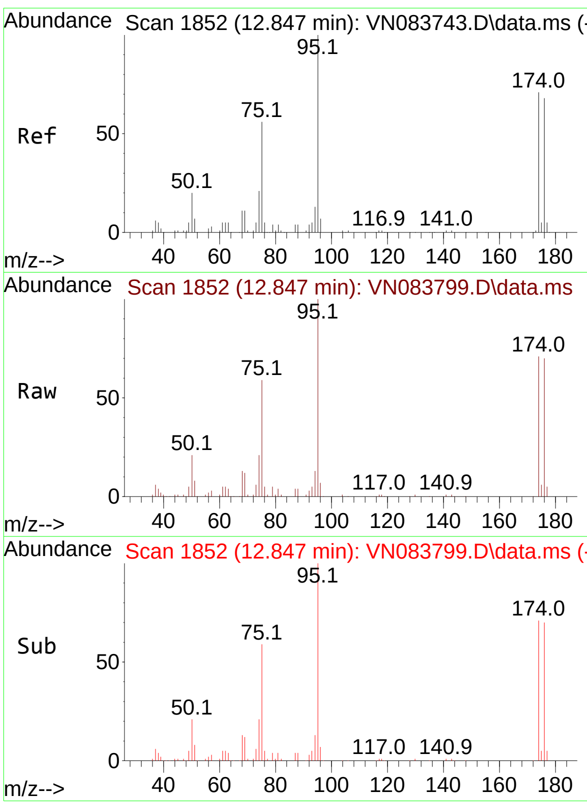


#61
1,2-Dibromoethane
Concen: 18.846 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:107 Resp: 3250

Ion	Ratio	Lower	Upper
107	100		
109	96.6	75.6	113.4

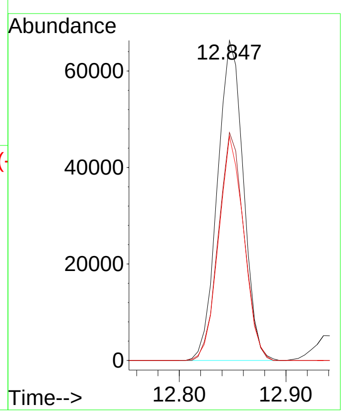


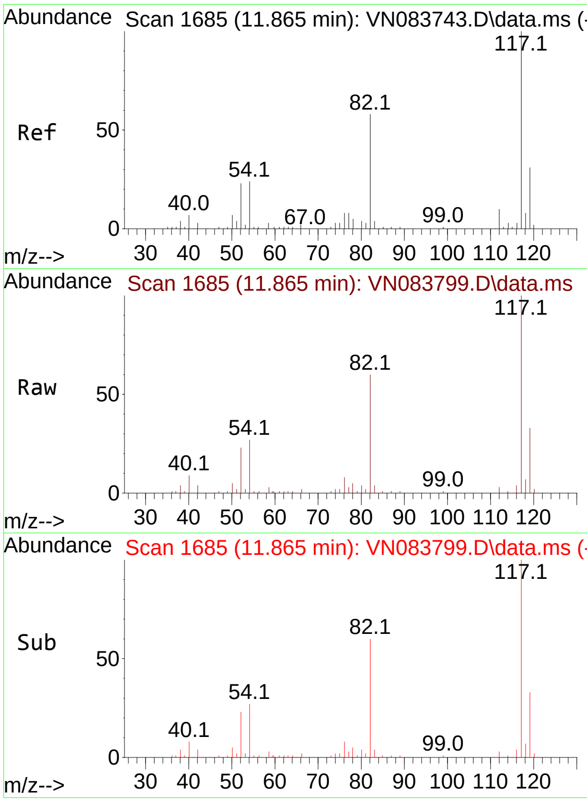


#62
4-Bromofluorobenzene
Concen: 47.029 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 95 Resp: 112119

Ion	Ratio	Lower	Upper
95	100		
174	70.3	0.0	139.8
176	68.1	0.0	131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:117 Resp: 22720

Ion	Ratio	Lower	Upper
117	100		
82	60.0	47.4	71.0
119	32.8	26.3	39.5

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations APPROVED
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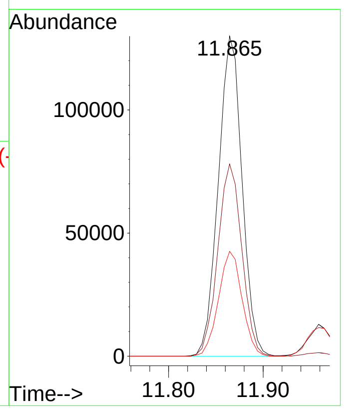
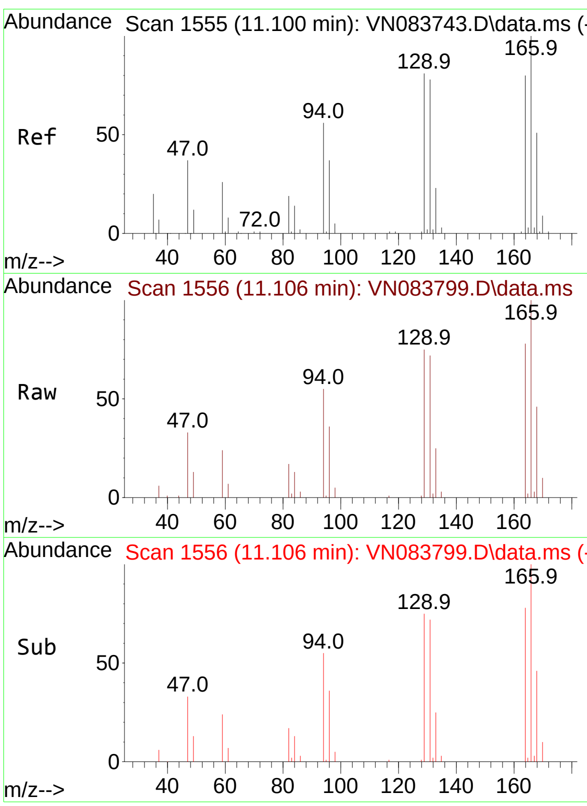
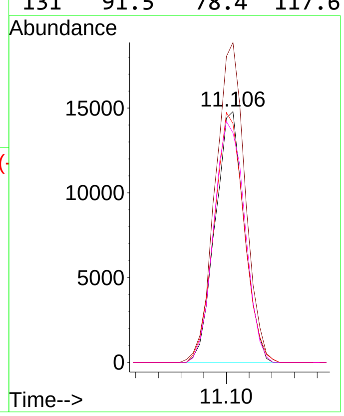




#64
Tetrachloroethene
Concen: 17.413 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:164 Resp: 26310

Ion	Ratio	Lower	Upper
164	100		
166	127.5	103.7	155.5
129	95.2	79.9	119.9
131	91.5	78.4	117.6



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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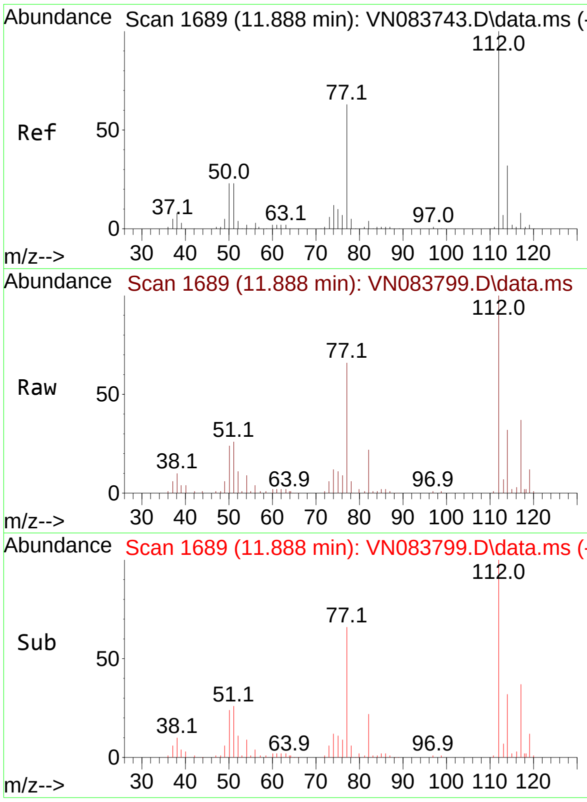
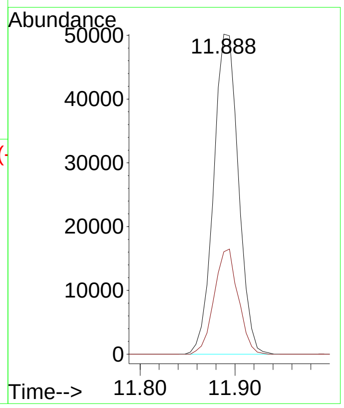
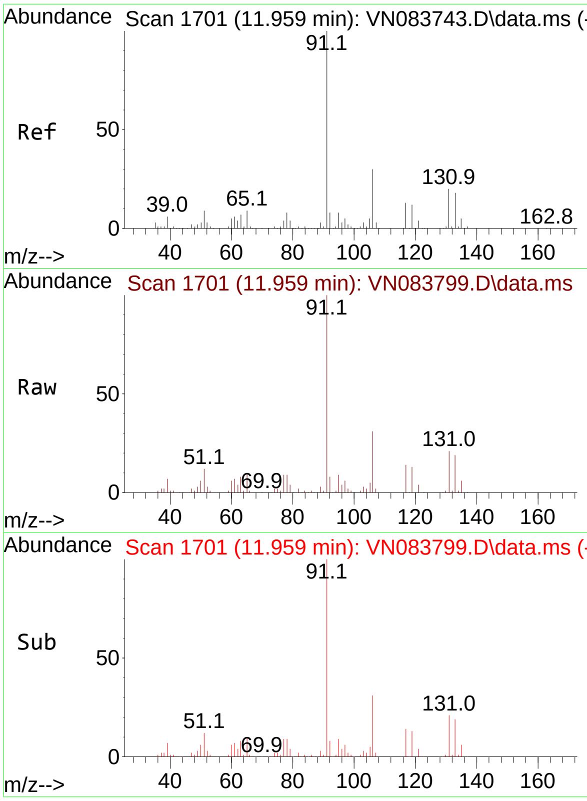



```
#65
Chlorobenzene
Concen:   18.063 ug/l
RT:  11.888 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

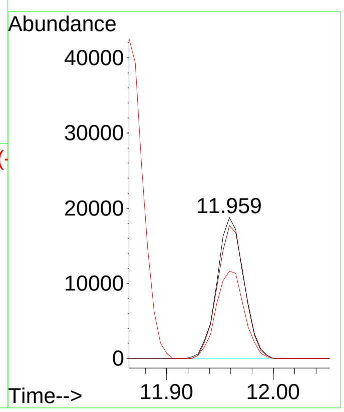
Tgt Ion:112 Resp:   91211
Ion  Ratio  Lower  Upper
112  100
114   32.0   25.7   38.5
```






```
#66
1,1,1,2-Tetrachloroethane
Concen:   18.953 ug/l
RT:  11.959 min  Scan# 1701
Delta R.T.  -0.000 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

Tgt Ion:131 Resp:   33178
Ion  Ratio  Lower  Upper
131  100
133   94.7   47.5  142.6
119   64.6   31.6   94.8
```



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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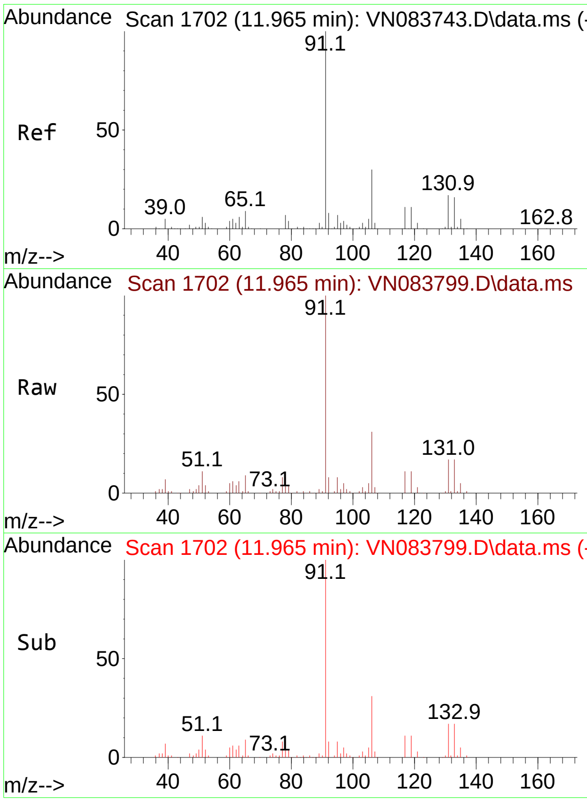
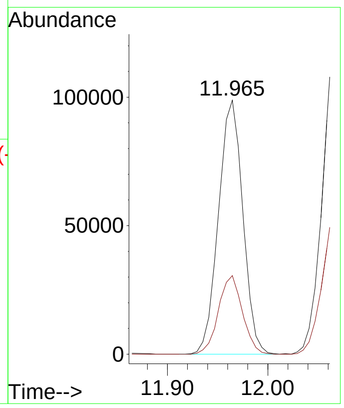
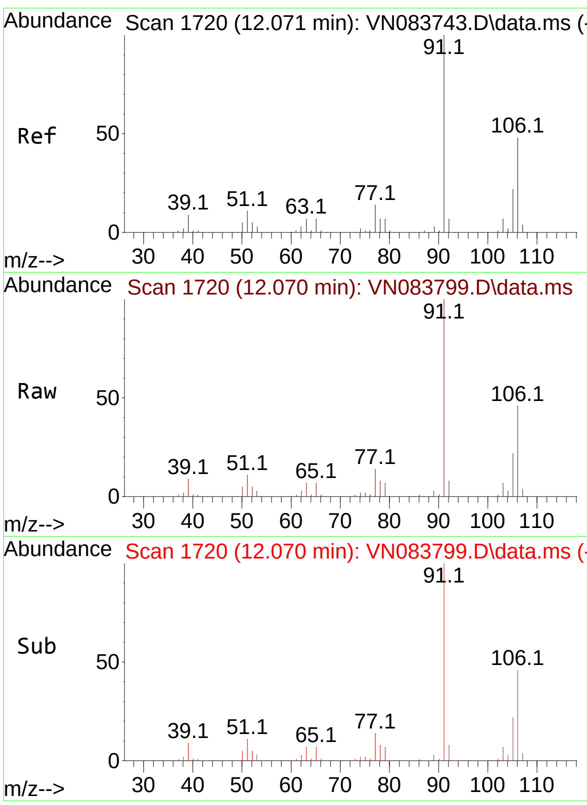


#67
Ethyl Benzene
Concen: 18.571 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 91 Resp: 16658

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.3	36.5

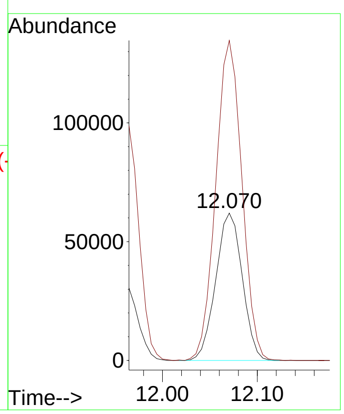


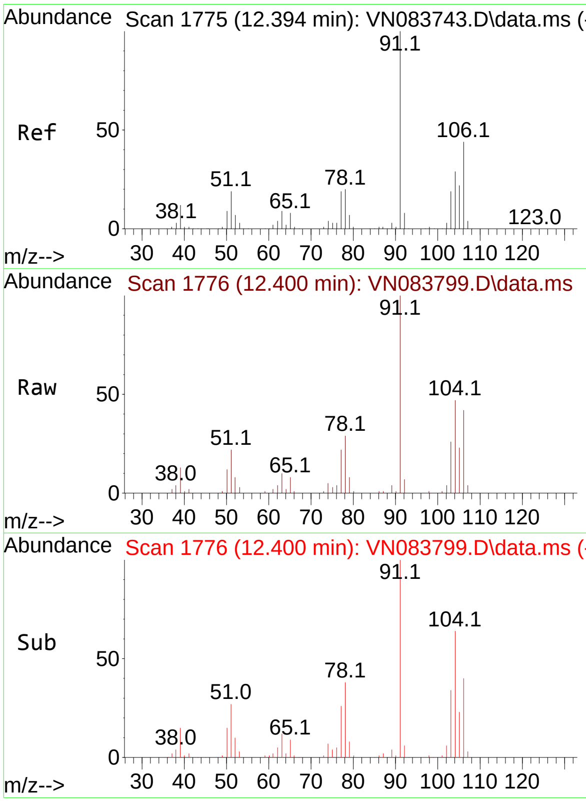


#68
m/p-Xylenes
Concen: 36.242 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:106 Resp: 120699

Ion	Ratio	Lower	Upper
106	100		
91	214.4	169.2	253.8

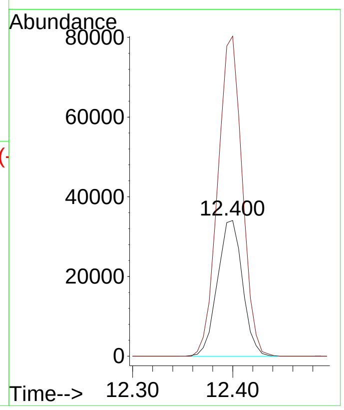




#69
o-Xylene
Concen: 18.318 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:106 Resp: 5905

Ion	Ratio	Lower	Upper
106	100		
91	230.2	112.9	338.6



Instrument :
MSVOA_N
ClientSampleId :
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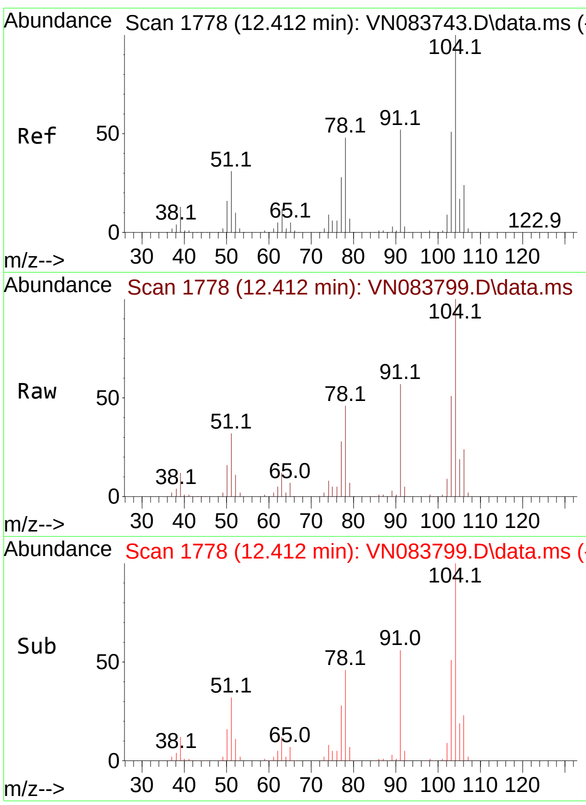
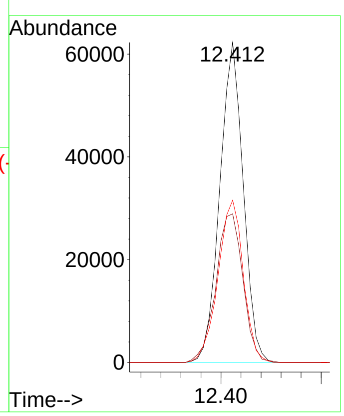
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#70
Styrene
Concen: 19.140 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:104 Resp: 101275

Ion	Ratio	Lower	Upper
104	100		
78	53.7	43.3	64.9
103	54.7	43.4	65.2



Instrument :
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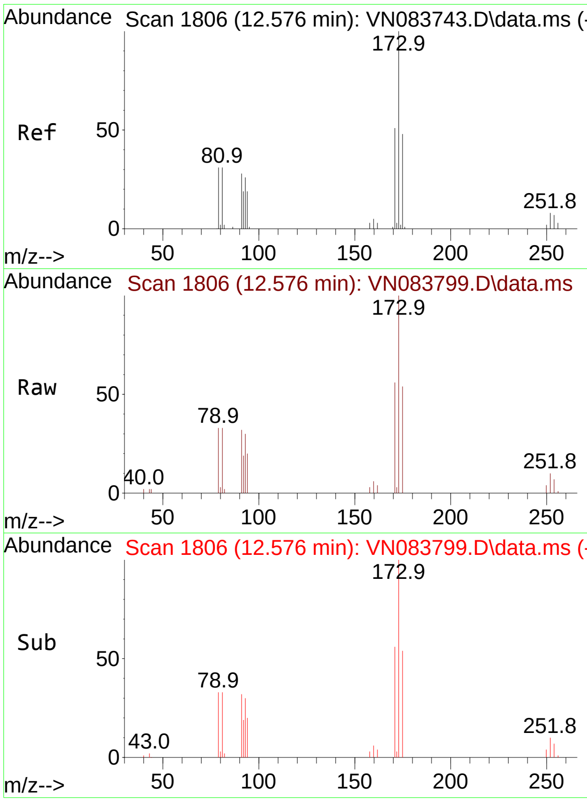
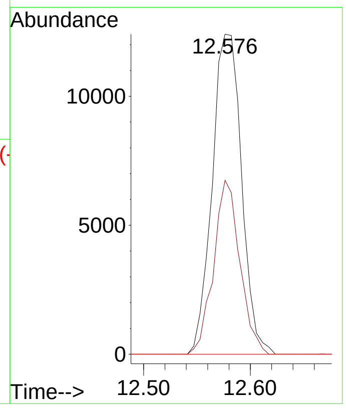
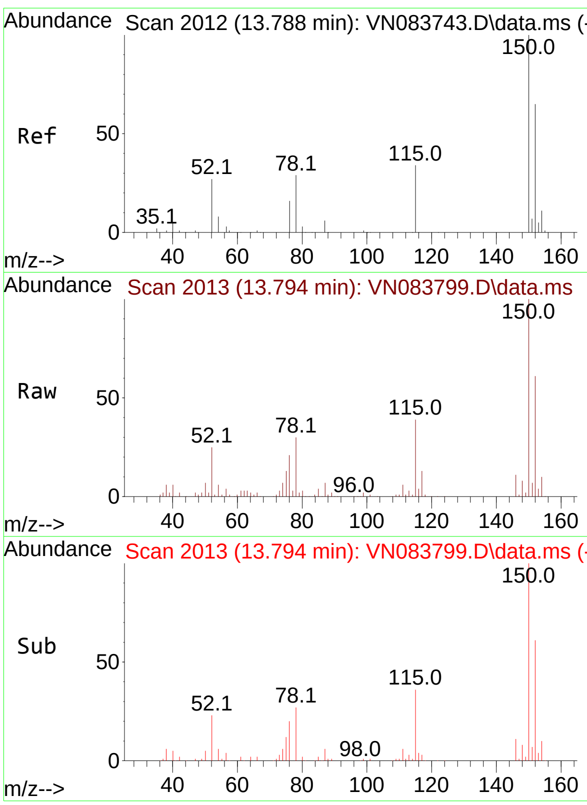



```
#71
Bromoform
Concen:   20.175 ug/l
RT:  12.576 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

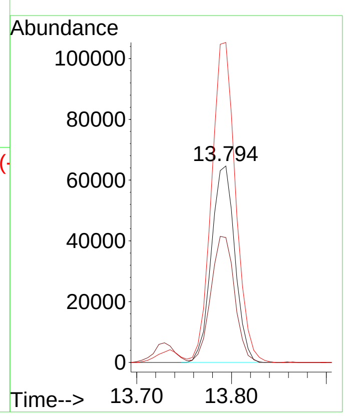
Tgt Ion:173 Resp:   23799
Ion  Ratio  Lower  Upper
173  100
175   48.5   24.1   72.2
254    0.0    0.0    0.0
```

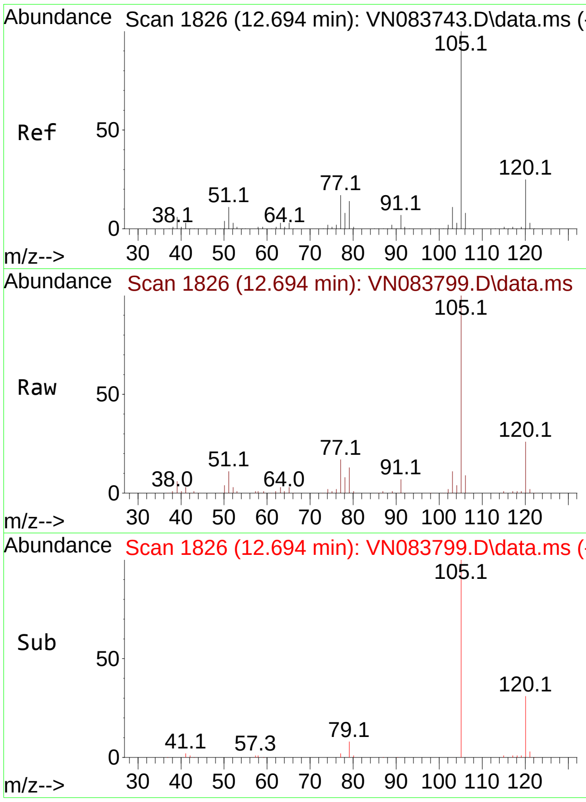





```
#72
1,4-Dichlorobenzene-d4
Concen:   50.000 ug/l
RT:  13.794 min  Scan# 2013
Delta R.T.  0.006 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

Tgt Ion:152 Resp:  111791
Ion  Ratio  Lower  Upper
152  100
115   64.8   32.2   96.6
150  166.4    0.0  348.6
```





#73
Isopropylbenzene
Concen: 17.900 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:105 Resp: 15481

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.6	37.8

Instrument :
MSVOA_N
ClientSampleId :
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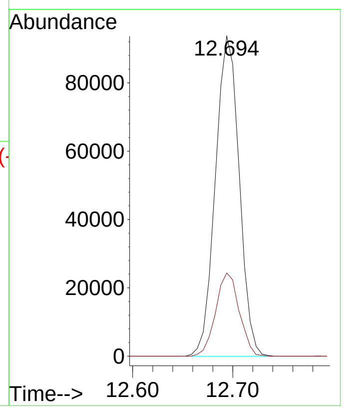
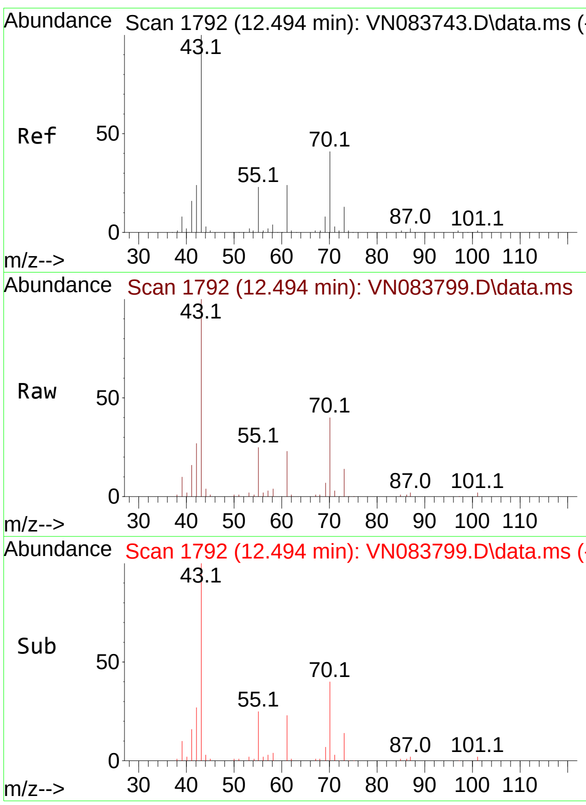
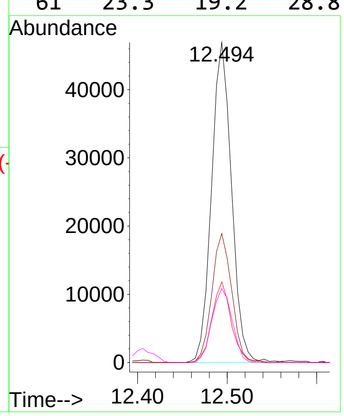




#74
N-amyl acetate
Concen: 19.746 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 43 Resp: 72864

Ion	Ratio	Lower	Upper
43	100		
70	39.9	34.5	51.7
55	24.4	18.6	28.0
61	23.3	19.2	28.8



Instrument :
MSVOA_N
ClientSampleId :
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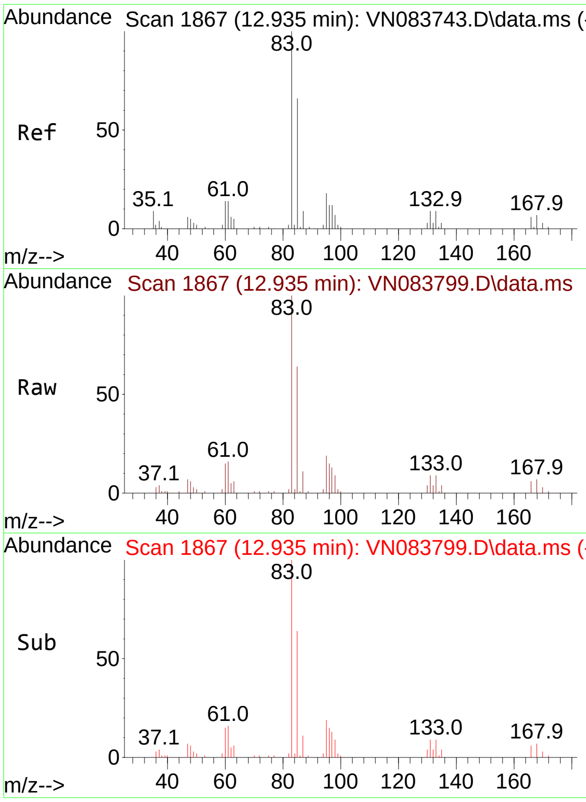
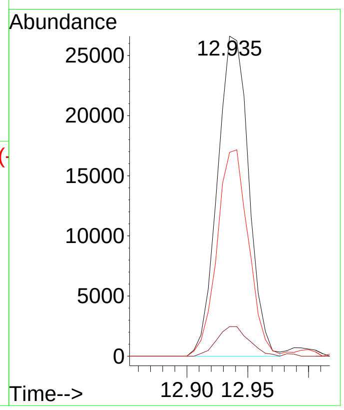
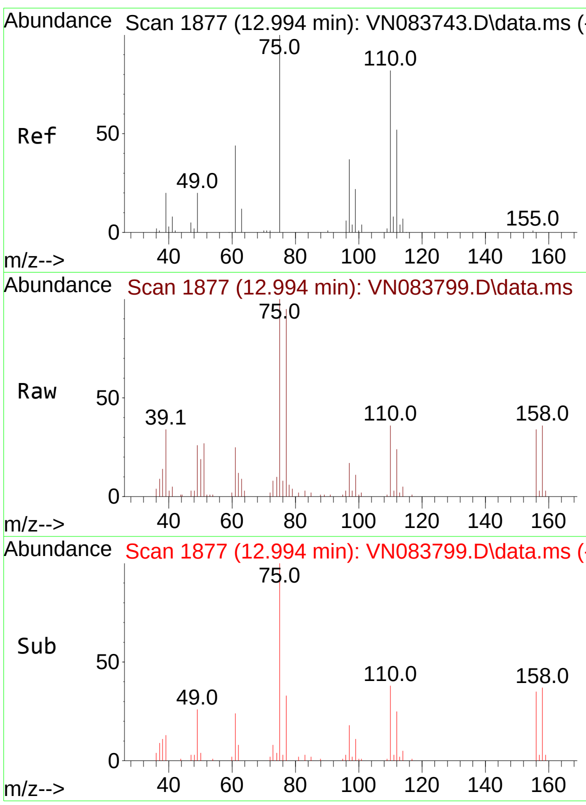



```
#75
1,1,2,2-Tetrachloroethane
Concen:   18.762 ug/l
RT:  12.935 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

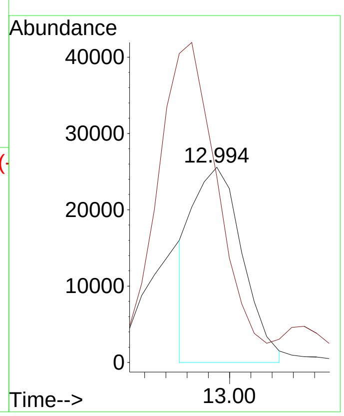
Tgt Ion: 83 Resp:   4767
Ion  Ratio  Lower  Upper
 83  100
131    9.5    5.2   15.6
 85   64.7   31.9   95.9
```






```
#76
1,2,3-Trichloropropane
Concen:   18.710 ug/l m
RT:  12.994 min  Scan# 1877
Delta R.T.  -0.000 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

Tgt Ion: 75 Resp:   42204
Ion  Ratio  Lower  Upper
 75  100
 77  198.8   95.2  285.6
```



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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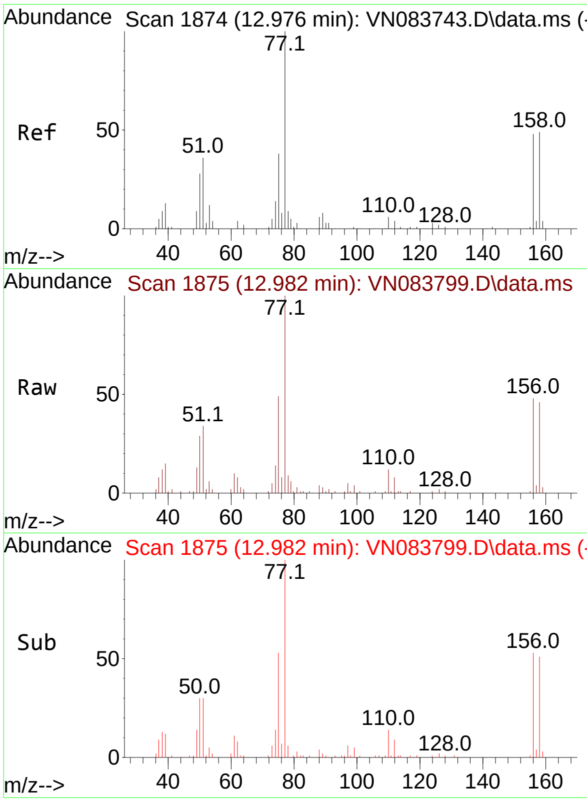
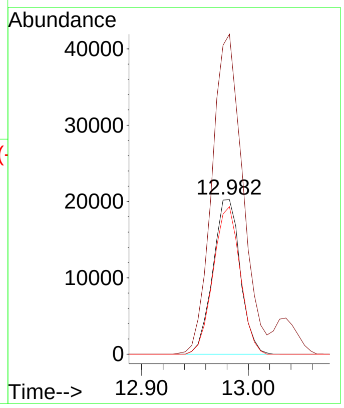
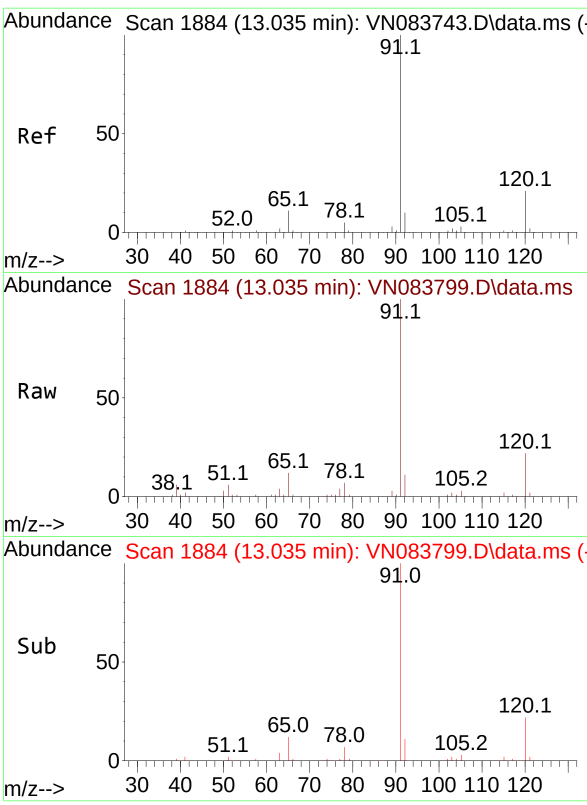


#77
Bromobenzene
Concen: 17.343 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:156 Resp: 3610

Ion	Ratio	Lower	Upper
156	100		
77	232.3	114.3	343.1
158	94.0	48.9	146.7

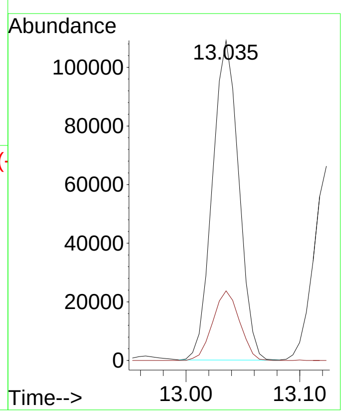




#78
n-propylbenzene
Concen: 17.490 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 91 Resp: 176000

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.0	33.0



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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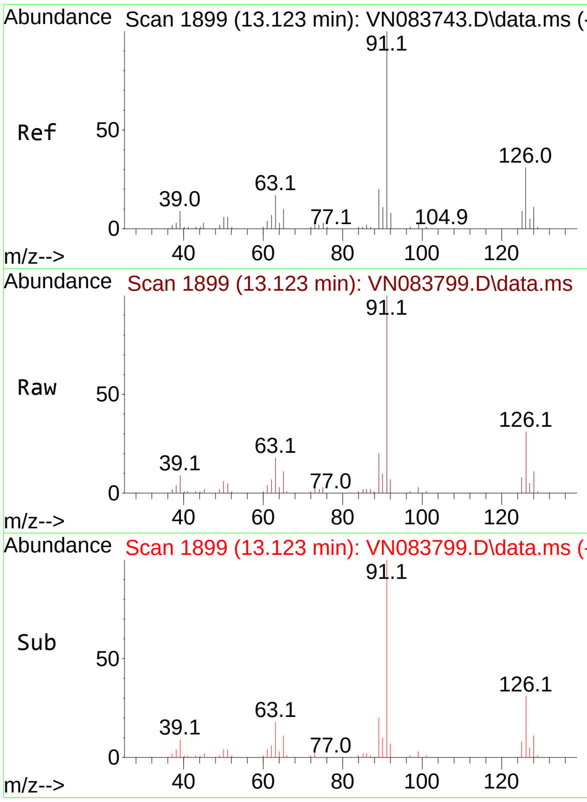
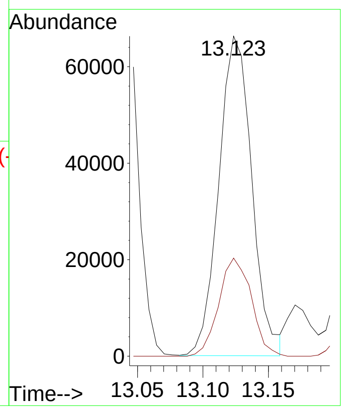
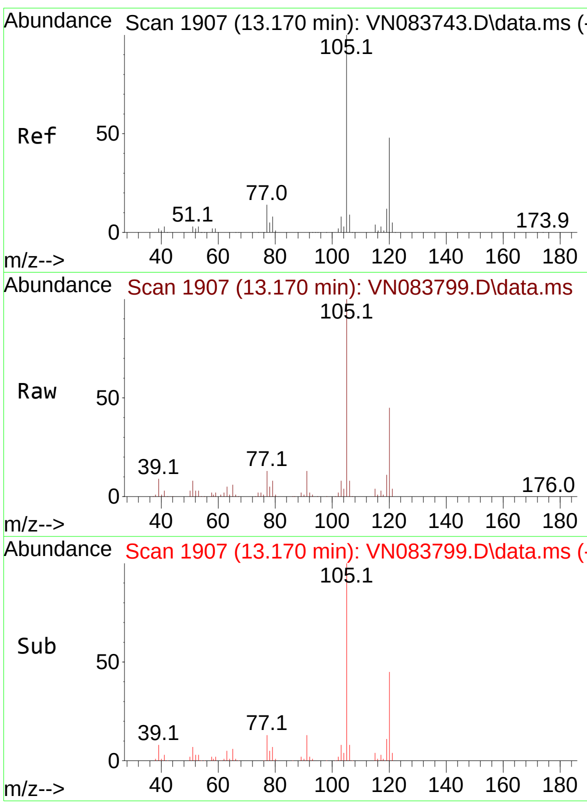



```
#79
2-Chlorotoluene
Concen:   18.128 ug/l
RT:  13.123 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

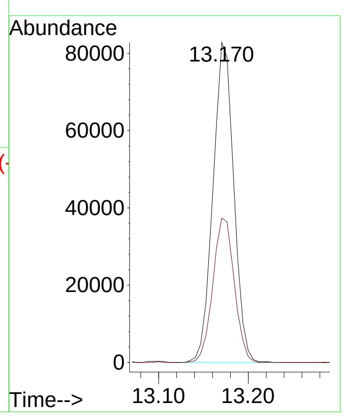
Tgt Ion: 91 Resp:  11634
Ion  Ratio  Lower  Upper
 91  100
126   30.2   15.4   46.2
```



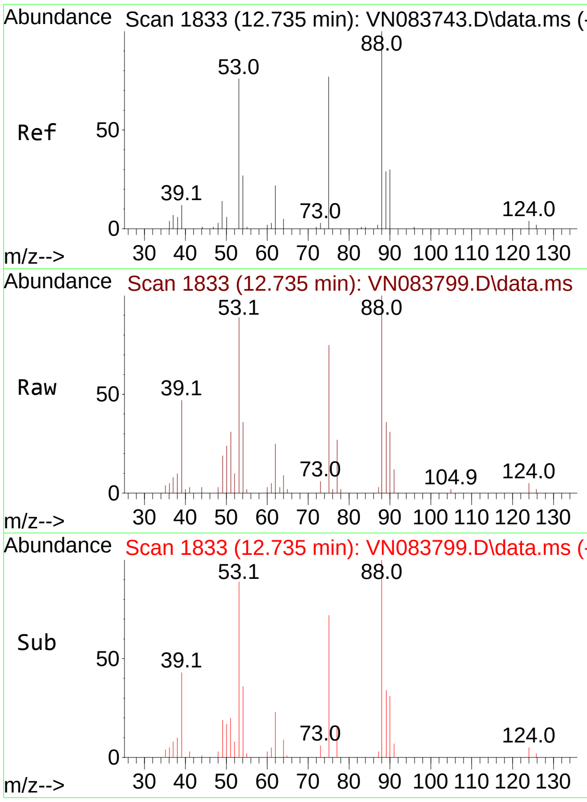



```
#80
1,3,5-Trimethylbenzene
Concen:   18.309 ug/l
RT:  13.170 min  Scan# 1907
Delta R.T.  -0.000 min
Lab File:   VN083799.D
Acq: 11 Sep 2024  16:45

Tgt Ion:105 Resp:  133503
Ion  Ratio  Lower  Upper
105  100
120   46.5   23.4   70.3
```



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



#81
trans-1,4-Dichloro-2-butene
Concen: 17.897 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 75 Resp: 1541

Ion	Ratio	Lower	Upper
75	100		
53	113.8	81.2	121.8
89	49.4	35.7	53.5

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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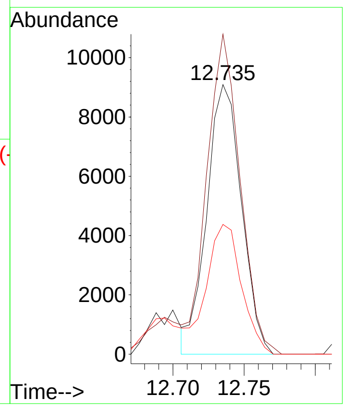

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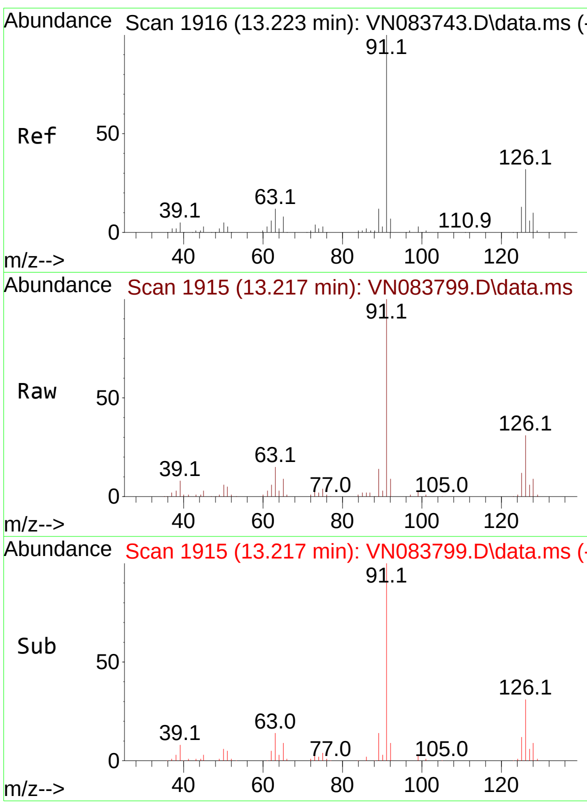
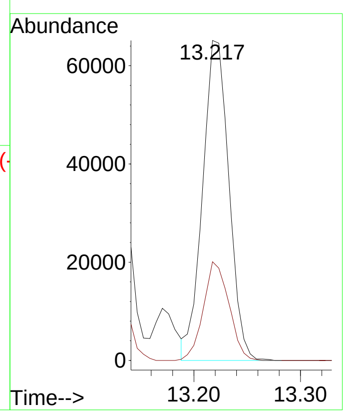


#82
4-Chlorotoluene
Concen: 17.397 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 91 Resp: 112039

Ion	Ratio	Lower	Upper
91	100		
126	29.9	15.4	46.2



Instrument :
MSVOA_N
ClientSampleId :
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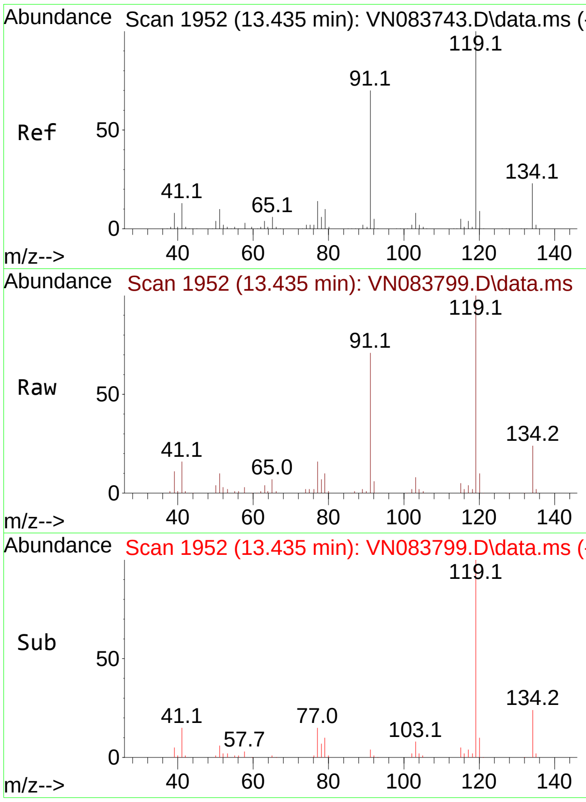
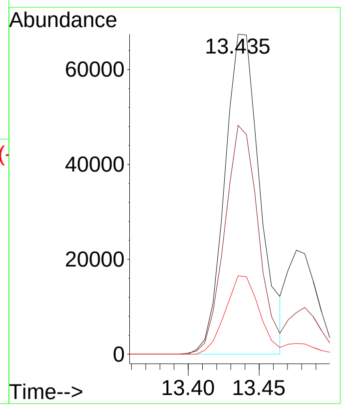
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

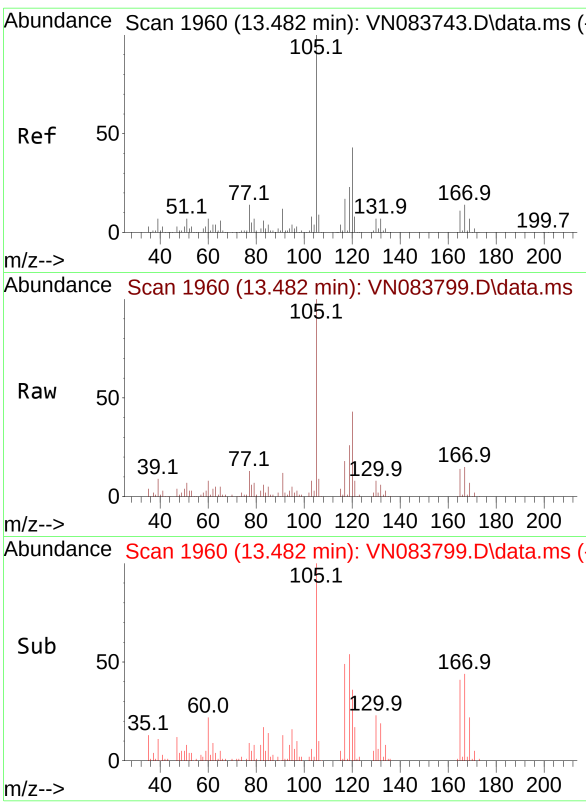


#83
tert-Butylbenzene
Concen: 18.281 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:119 Resp: 11662

Ion	Ratio	Lower	Upper
119	100		
91	68.6	34.5	103.6
134	23.7	12.8	38.4

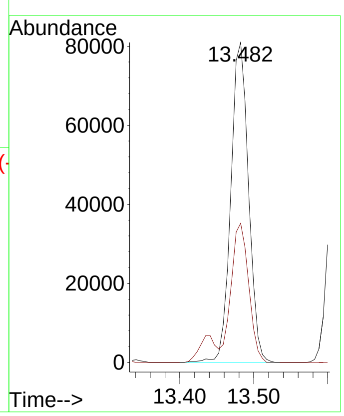




#84
1,2,4-Trimethylbenzene
Concen: 18.389 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:105 Resp: 134697

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.8	65.4



Instrument :
MSVOA_N
ClientSampleId :
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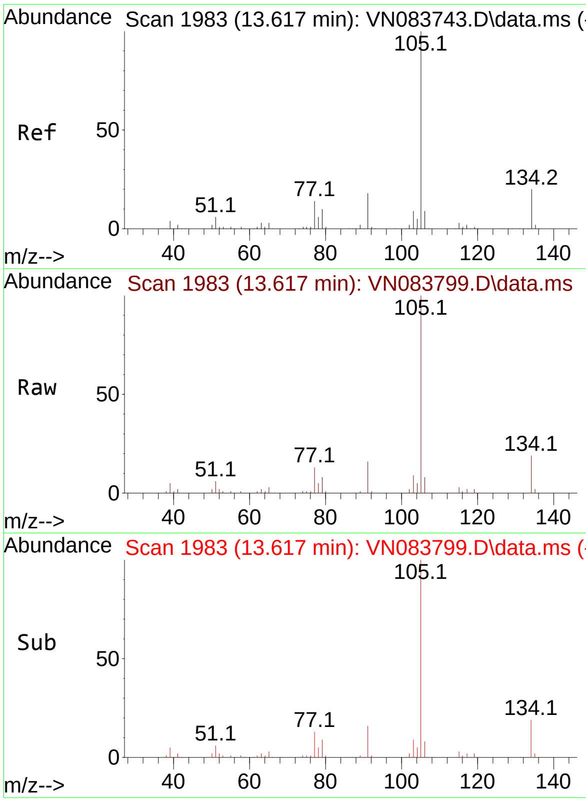
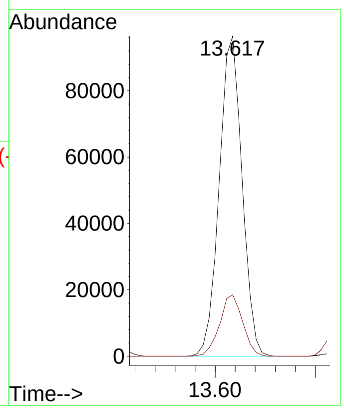
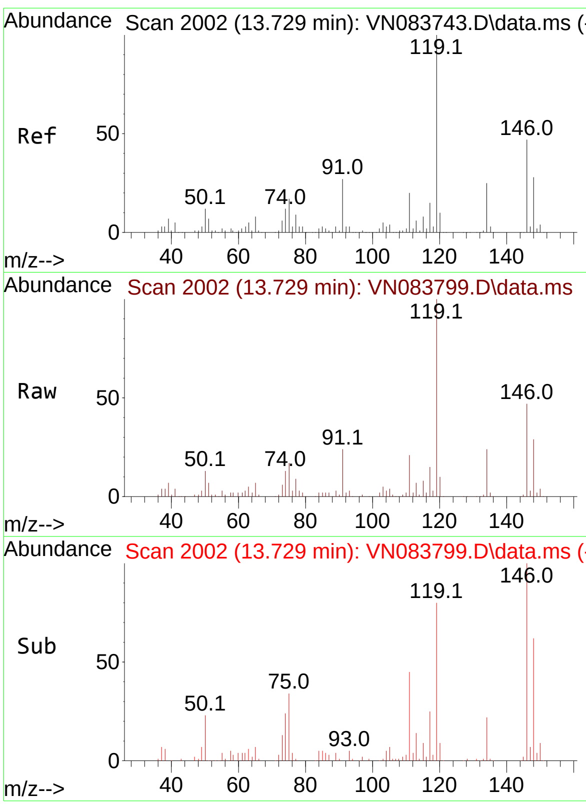


#85
sec-Butylbenzene
Concen: 17.995 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:105 Resp: 15225

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.7	29.1

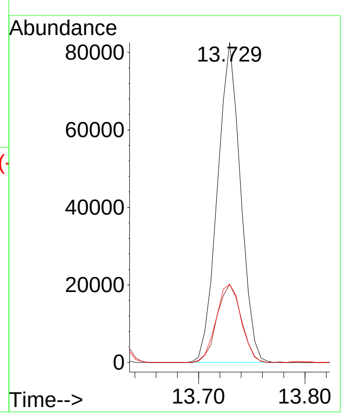




#86
p-Isopropyltoluene
Concen: 17.556 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:119 Resp: 124511

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.3
91	26.4	12.9	38.7



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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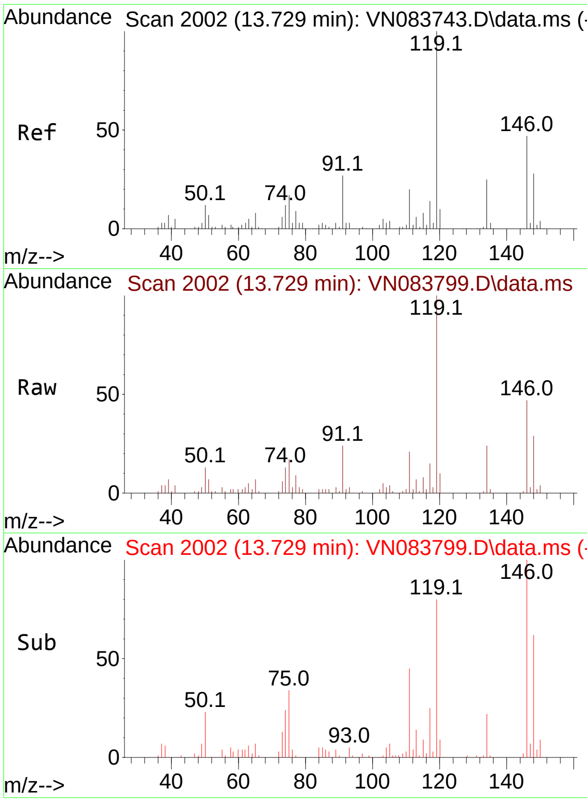
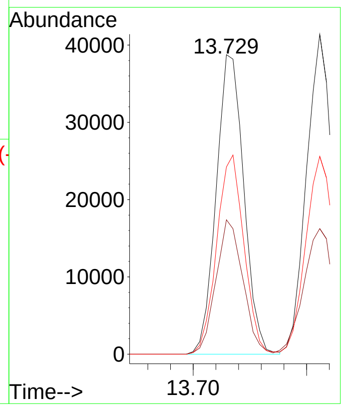
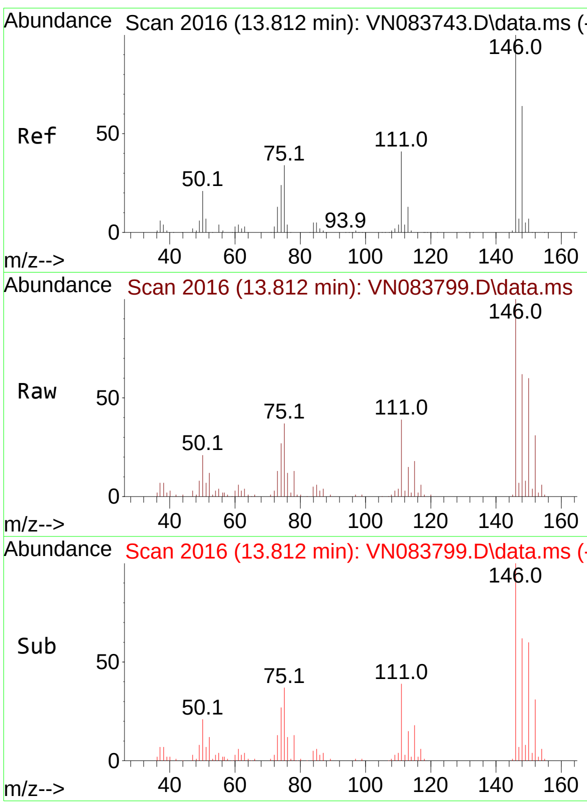


#87
1,3-Dichlorobenzene
Concen: 16.714 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:146 Resp: 6566

Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.7	65.1
148	65.7	31.7	95.1

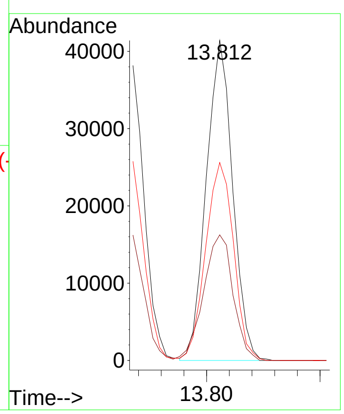




#88
1,4-Dichlorobenzene
Concen: 16.831 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:146 Resp: 66959

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.3	64.0
148	65.5	32.0	96.2



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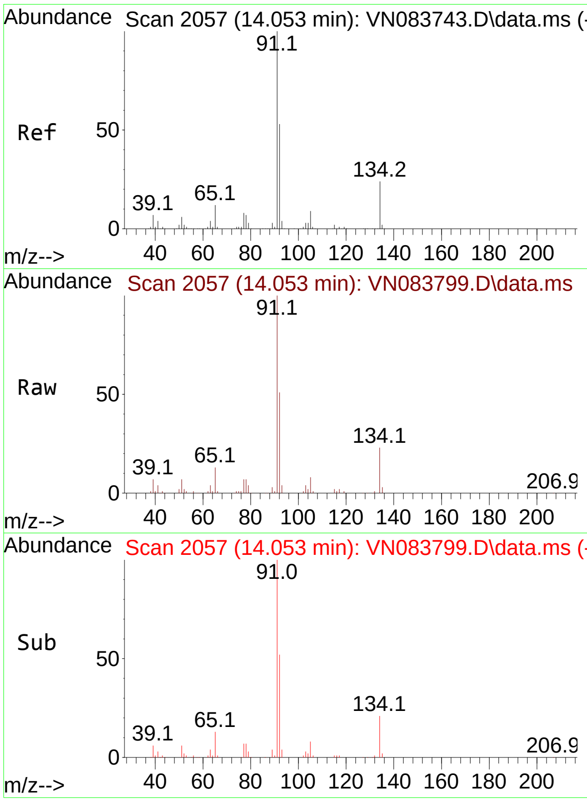

#89
n-Butylbenzene
Concen: 16.325 ug/l
RT: 14.053 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion: 91 Resp: 10395(

Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.7	80.1
134	23.8	12.2	36.4

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

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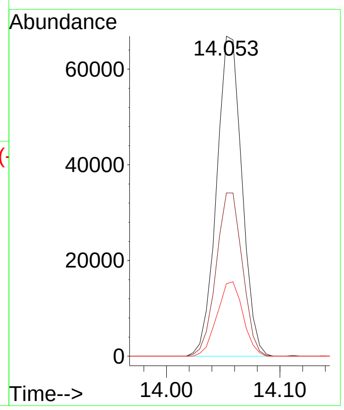
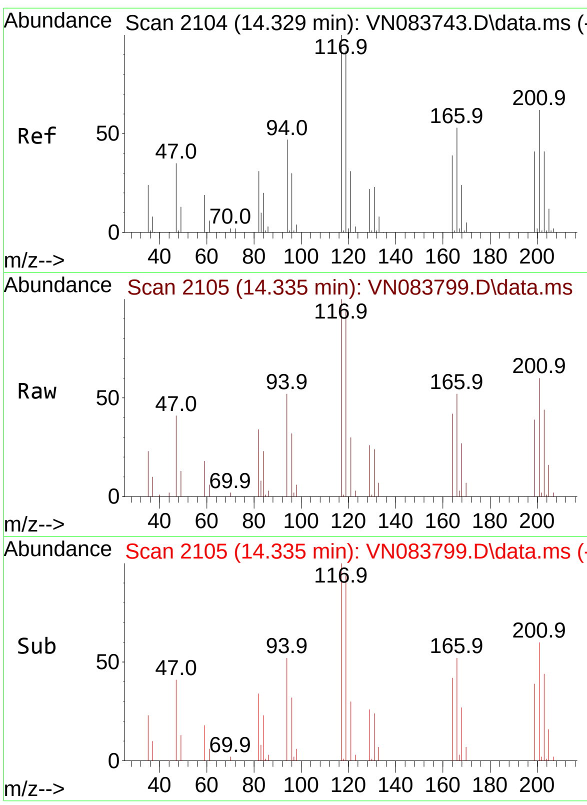
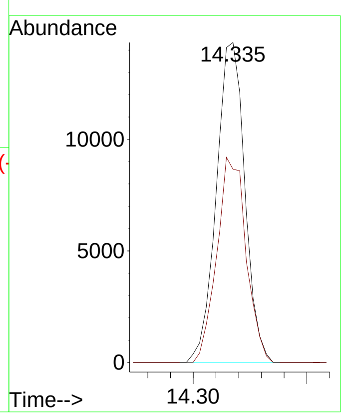




#90
Hexachloroethane
Concen: 17.554 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:117 Resp: 25026

Ion	Ratio	Lower	Upper
117	100		
201	65.7	32.8	98.3

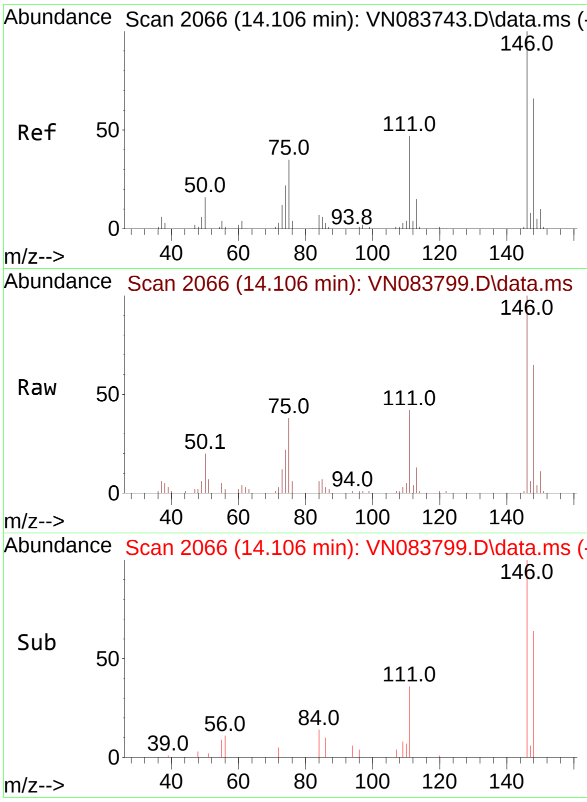


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations APPROVED

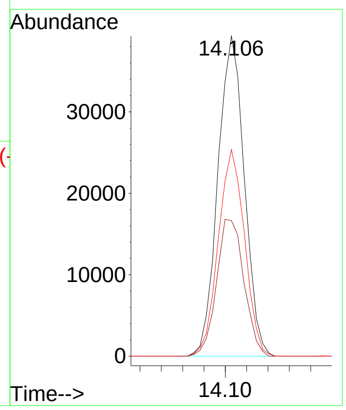
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

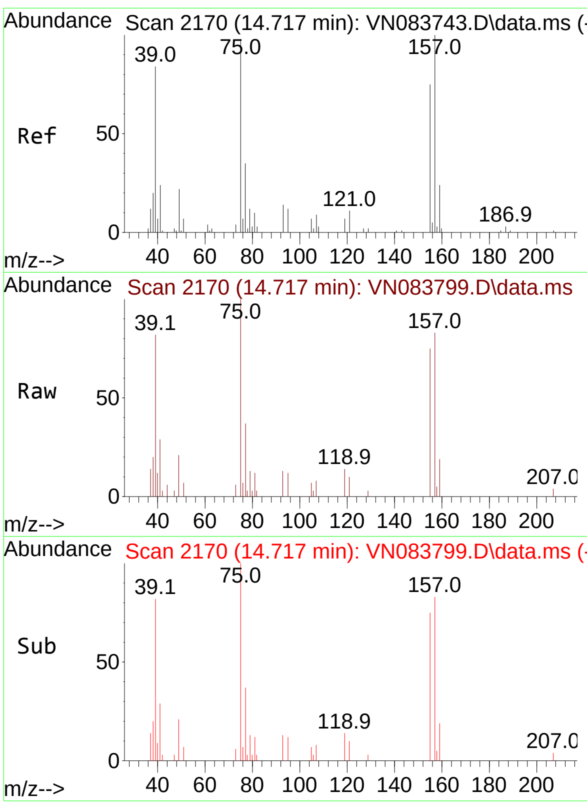


#91
1,2-Dichlorobenzene
Concen: 17.852 ug/l
RT: 14.106 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:146 Resp: 6769

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.8	68.3
148	64.2	32.1	96.5

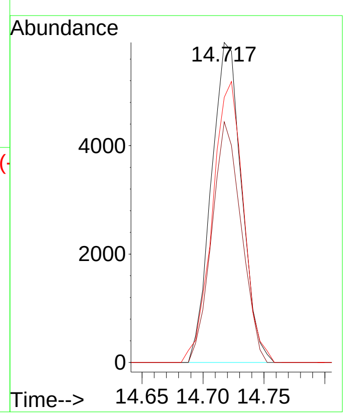




#92
1,2-Dibromo-3-Chloropropane
Concen: 20.159 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

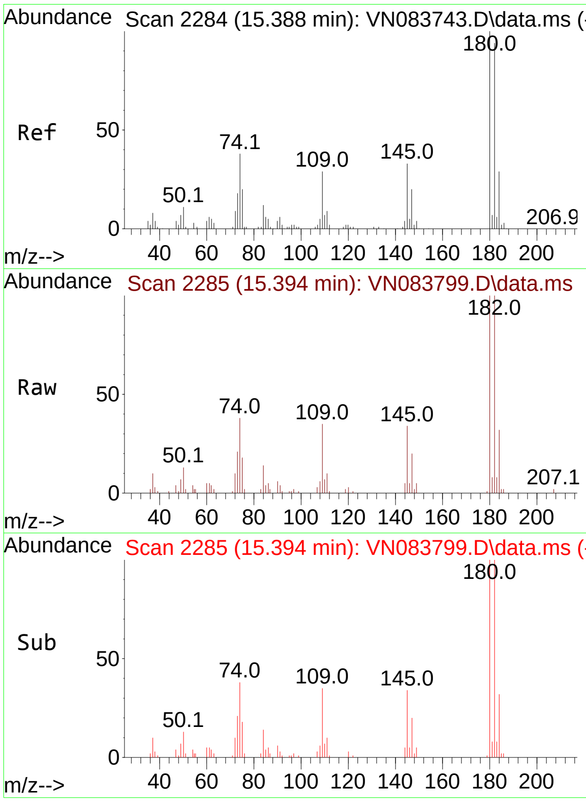
Tgt Ion: 75 Resp: 10212

Ion	Ratio	Lower	Upper
75	100		
155	73.2	35.9	107.7
157	89.8	47.5	142.5



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

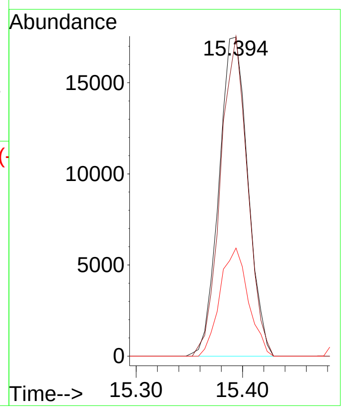
Manual Integrations
APPROVED
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024

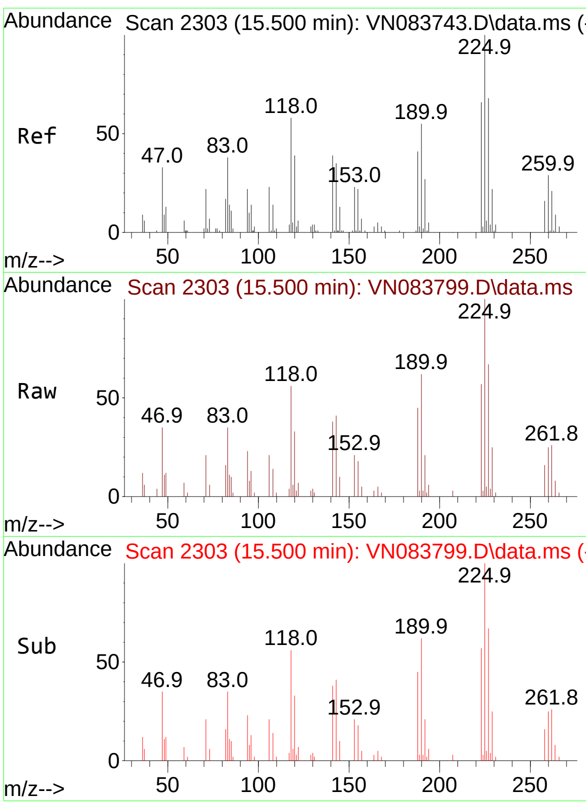


#93
1,2,4-Trichlorobenzene
Concen: 16.269 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:180 Resp: 3310

Ion	Ratio	Lower	Upper
180	100		
182	93.6	48.1	144.3
145	33.2	16.9	50.7

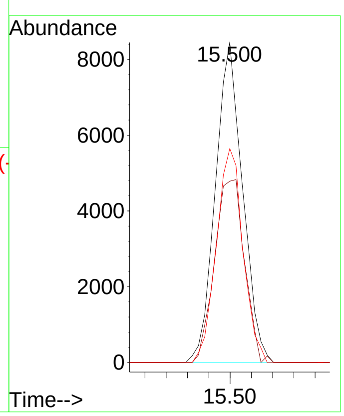


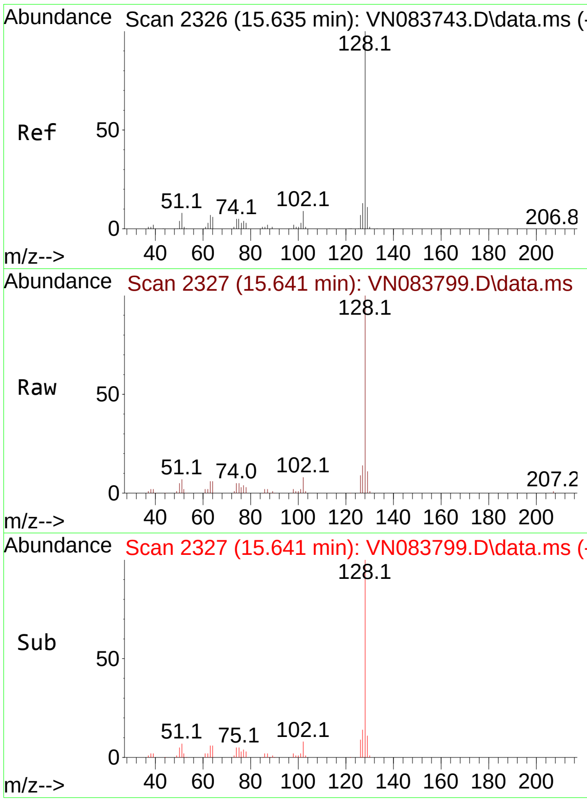


#94
Hexachlorobutadiene
Concen: 17.337 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:225 Resp: 14982

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.9	95.5
227	65.5	32.0	96.2

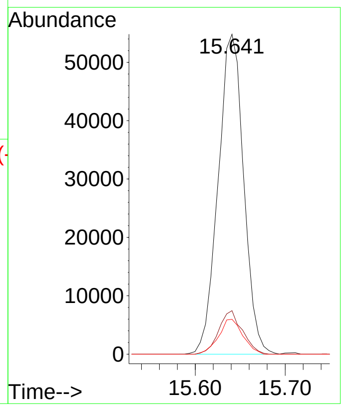




#95
Naphthalene
Concen: 17.476 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:128 Resp: 10818

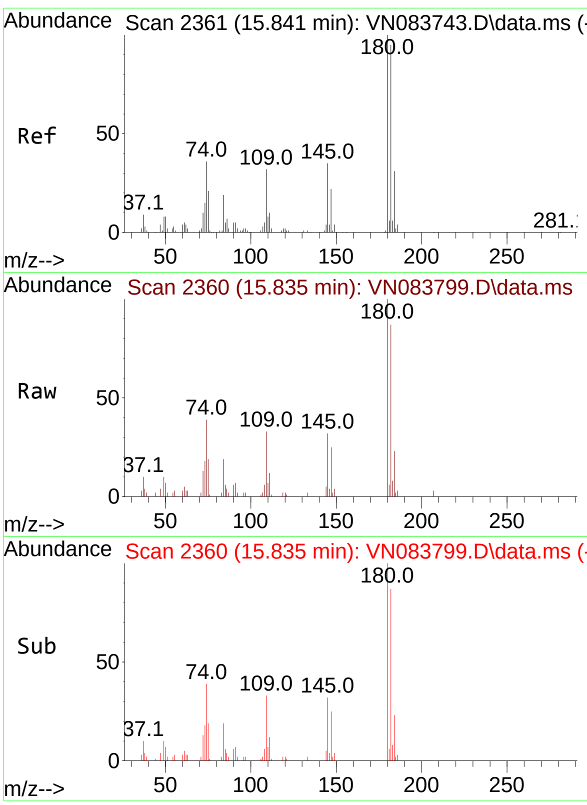
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.4	8.7	13.1



Instrument :
MSVOA_N
ClientSampleId :
VN0911WBS01

Manual Integrations APPROVED

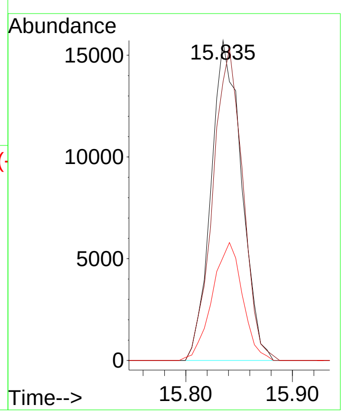
Reviewed By :John Carlone 09/12/2024
Supervised By :Mahesh Dadoda 09/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 16.080 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN083799.D
Acq: 11 Sep 2024 16:45

Tgt Ion:180 Resp: 31271

Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.1	141.4
145	36.6	17.8	53.5



Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBSD01	SDG No.:	P3845
Lab Sample ID:	VN0910WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083754.D	1		09/10/24 16:07	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.4		0.21	1.00	ug/L
74-87-3	Chloromethane	18.7		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.7		0.34	1.00	ug/L
141-78-6	Ethyl Acetate	20.6		0.38	1.00	ug/L
108-21-4	Isopropyl Acetate	19.4		0.29	1.00	ug/L
74-83-9	Bromomethane	19.1		1.40	5.00	ug/L
75-00-3	Chloroethane	18.4		0.56	1.00	ug/L
109-99-9	Tetrahydrofuran	100		1.20	5.00	ug/L
75-69-4	Trichlorofluoromethane	18.5		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.2		0.25	1.00	ug/L
75-65-0	Tert butyl alcohol	100		5.60	25.0	ug/L
60-29-7	Diethyl Ether	18.2		0.20	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.7		0.26	1.00	ug/L
107-02-8	Acrolein	100		6.70	25.0	ug/L
107-13-1	Acrylonitrile	97.4		0.90	5.00	ug/L
67-64-1	Acetone	96.1		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.8		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	21.0		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.1		0.25	1.00	ug/L
108-05-4	Vinyl Acetate	97.5		0.71	5.00	ug/L
75-34-3	1,1-Dichloroethane	18.5		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.8		1.60	5.00	ug/L
78-93-3	2-Butanone	97.6		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	1.00	ug/L
594-20-7	2,2-Dichloropropane	18.5		0.31	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.5		0.25	1.00	ug/L
74-97-5	Bromochloromethane	20.0		0.18	1.00	ug/L
67-66-3	Chloroform	18.2		0.26	1.00	ug/L

Alliance TECHNICAL GROUP

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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBSD01	SDG No.:	P3845
Lab Sample ID:	VN0910WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083754.D	1		09/10/24 16:07	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
71-55-6	1,1,1-Trichloroethane	18.3		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.19	1.00	ug/L
563-58-6	1,1-Dichloropropene	18.1		0.18	1.00	ug/L
71-43-2	Benzene	18.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.5		0.19	1.00	ug/L
74-95-3	Dibromomethane	19.4		0.23	1.00	ug/L
75-27-4	Bromodichloromethane	18.8		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	18.7		0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.9		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.0		0.21	1.00	ug/L
142-28-9	1,3-Dichloropropane	19.4		0.17	1.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	95.2		1.80	5.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	17.8		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.3		0.13	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	19.1		0.21	1.00	ug/L
100-41-4	Ethyl Benzene	18.8		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	37.0		0.31	2.00	ug/L
1330-20-7	Total Xylenes	56.0		0.45	3.00	ug/L
95-47-6	o-Xylene	19.0		0.14	1.00	ug/L
100-42-5	Styrene	19.0		0.16	1.00	ug/L
75-25-2	Bromoform	19.7		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.5		0.27	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.5		0.39	1.00	ug/L

Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBSD01	SDG No.:	P3845
Lab Sample ID:	VN0910WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083754.D	1		09/10/24 16:07	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-86-1	Bromobenzene	17.8		0.26	1.00	ug/L
103-65-1	n-propylbenzene	18.4		0.14	1.00	ug/L
95-49-8	2-Chlorotoluene	18.8		0.16	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	18.2		0.18	1.00	ug/L
106-43-4	4-Chlorotoluene	18.6		0.18	1.00	ug/L
98-06-6	tert-Butylbenzene	18.7		0.17	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	18.8		0.18	1.00	ug/L
135-98-8	sec-Butylbenzene	18.6		0.17	1.00	ug/L
99-87-6	p-Isopropyltoluene	18.4		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.1		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.6		0.27	1.00	ug/L
104-51-8	n-Butylbenzene	18.0		0.22	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.4		0.42	1.00	ug/L
87-68-3	Hexachlorobutadiene	18.0		0.31	1.00	ug/L
91-20-3	Naphthalene	18.6		0.59	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.2		0.51	1.00	ug/L
628-63-7	N-amyl acetate	19.5		0.23	1.00	ug/L
74-88-4	Methyl Iodide	19.1		1.20	5.00	ug/L
107-05-1	Allyl chloride	18.9		0.24	1.00	ug/L
126-98-7	Methacrylonitrile	19.1		0.31	1.00	ug/L
97-63-2	Ethyl methacrylate	19.5		0.16	1.00	ug/L
108-20-3	Diisopropyl ether	18.7		0.16	1.00	ug/L
123-91-1	1,4-Dioxane	390		6.50	100	ug/L
80-62-6	Methyl methacrylate	19.2		0.32	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.9		74 - 125	94%	SPK: 50
1868-53-7	Dibromofluoromethane	45.8		75 - 124	92%	SPK: 50
2037-26-5	Toluene-d8	48.4		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VN0910WBSD01	SDG No.:	P3845
Lab Sample ID:	VN0910WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083754.D	1		09/10/24 16:07	VN091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
363-72-4	Pentafluorobenzene	155000	8.224			
540-36-3	1,4-Difluorobenzene	268000	9.1			
3114-55-4	Chlorobenzene-d5	233000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	113000	13.794			
67-72-1	Hexachloroethane					

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083754.D
Acq On : 10 Sep 2024 16:07
Operator : JC\MD
Sample : VN0910WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:14:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.224	168	155285	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	268277	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	233025	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	112657	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.577	65	109835	46.908 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.820%		
35) Dibromofluoromethane	8.165	113	78712	45.830 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.660%		
50) Toluene-d8	10.565	98	287623	48.443 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.880%		
62) 4-Bromofluorobenzene	12.847	95	110429	45.080 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 90.160%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.124	85	34938	19.373 ug/l	100
3) Chloromethane	2.359	50	36589	18.713 ug/l	98
4) Vinyl Chloride	2.512	62	37034	18.735 ug/l	98
5) Bromomethane	2.900	94	21715	19.133 ug/l	100
6) Chloroethane	3.071	64	25474	18.372 ug/l	94
7) Trichlorofluoromethane	3.465	101	62071	18.499 ug/l	93
8) Diethyl Ether	3.959	74	20417	18.153 ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.347	101	34170	19.213 ug/l	98
10) Methyl Iodide	4.577	142	43140	19.073 ug/l	99
11) Tert butyl alcohol	5.536	59	32477	103.580 ug/l #	83
12) 1,1-Dichloroethene	4.330	96	31428	18.712 ug/l	86
13) Acrolein	4.177	56	32462	104.931 ug/l	96
14) Allyl chloride	5.006	41	56591	18.909 ug/l	97
15) Acrylonitrile	5.718	53	83057	97.406 ug/l	99
16) Acetone	4.430	43	90182	96.077 ug/l	96
17) Carbon Disulfide	4.700	76	83426	17.757 ug/l	99
18) Methyl Acetate	5.024	43	43151	20.987 ug/l	96
19) Methyl tert-butyl Ether	5.794	73	115146	18.945 ug/l	94
20) Methylene Chloride	5.271	84	36477	18.990 ug/l	92
21) trans-1,2-Dichloroethene	5.771	96	32664	18.147 ug/l	96
22) Diisopropyl ether	6.671	45	115246	18.707 ug/l	97
23) Vinyl Acetate	6.600	43	439901	97.505 ug/l	99
24) 1,1-Dichloroethane	6.559	63	65642	18.494 ug/l	99
25) 2-Butanone	7.482	43	120379	97.576 ug/l	98
26) 2,2-Dichloropropane	7.488	77	60404	18.480 ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	39615	18.540 ug/l	97
28) Bromochloromethane	7.812	49	29949	20.037 ug/l	98
29) Tetrahydrofuran	7.841	42	74078	101.550 ug/l	97
30) Chloroform	7.965	83	68713	18.235 ug/l	99
31) Cyclohexane	8.253	56	60268	17.809 ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	63454	18.314 ug/l	99
36) 1,1-Dichloropropene	8.371	75	46881	18.135 ug/l	97
37) Ethyl Acetate	7.565	43	48268	20.571 ug/l	99
38) Carbon Tetrachloride	8.359	117	55419	18.897 ug/l	99
39) Methylcyclohexane	9.600	83	54969	18.682 ug/l	98
40) Benzene	8.606	78	146220	18.793 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083754.D
Acq On : 10 Sep 2024 16:07
Operator : JC\MD
Sample : VN0910WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 03:14:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	26555	19.134 ug/l	96
42) 1,2-Dichloroethane	8.671	62	54955	18.902 ug/l	100
43) Isopropyl Acetate	8.688	43	82497	19.401 ug/l	97
44) Trichloroethene	9.353	130	33656	18.679 ug/l	99
45) 1,2-Dichloropropane	9.618	63	34803	18.507 ug/l	96
46) Dibromomethane	9.706	93	25572	19.414 ug/l	98
47) Bromodichloromethane	9.888	83	53470	18.757 ug/l	99
48) Methyl methacrylate	9.682	41	38684	19.176 ug/l	97
49) 1,4-Dioxane	9.694	88	12964	390.637 ug/l #	94
51) 4-Methyl-2-Pentanone	10.447	43	235084	101.564 ug/l	98
52) Toluene	10.629	92	89075	18.716 ug/l	97
53) t-1,3-Dichloropropene	10.835	75	54667	18.919 ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	57857	19.062 ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	33691	18.962 ug/l	95
56) Ethyl methacrylate	10.876	69	53210	19.465 ug/l	93
57) 1,3-Dichloropropane	11.159	76	59317	19.425 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	93773	95.203 ug/l	95
59) 2-Hexanone	11.194	43	177106	103.438 ug/l	96
60) Dibromochloromethane	11.359	129	37963	19.092 ug/l	100
61) 1,2-Dibromoethane	11.470	107	34141	19.267 ug/l	97
64) Tetrachloroethene	11.100	164	27563	17.786 ug/l	96
65) Chlorobenzene	11.894	112	95019	18.347 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	34311	19.110 ug/l	98
67) Ethyl Benzene	11.965	91	172772	18.779 ug/l	95
68) m/p-Xylenes	12.070	106	126301	36.976 ug/l	98
69) o-Xylene	12.400	106	62752	18.977 ug/l	98
70) Styrene	12.412	104	103357	19.046 ug/l	99
71) Bromoform	12.576	173	23863	19.723 ug/l #	98
73) Isopropylbenzene	12.694	105	160940	18.465 ug/l	100
74) N-amyl acetate	12.494	43	72476	19.490 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.941	83	49910	19.489 ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	41121m	18.547 ug/l	
77) Bromobenzene	12.982	156	37360	17.807 ug/l	99
78) n-propylbenzene	13.035	91	186432	18.384 ug/l	98
79) 2-Chlorotoluene	13.123	91	121802	18.833 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	133892	18.221 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	17296	19.928 ug/l	97
82) 4-Chlorotoluene	13.223	91	120449	18.559 ug/l	98
83) tert-Butylbenzene	13.435	119	120350	18.720 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	138521	18.766 ug/l	99
85) sec-Butylbenzene	13.617	105	158826	18.628 ug/l	99
86) p-Isopropyltoluene	13.729	119	131843	18.447 ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	71656	18.097 ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	70441	17.570 ug/l	98
89) n-Butylbenzene	14.053	91	115369	17.978 ug/l	99
90) Hexachloroethane	14.329	117	26057	18.136 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	70785	18.524 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10229	20.037 ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	35681	17.401 ug/l	99
94) Hexachlorobutadiene	15.500	225	15646	17.967 ug/l	97
95) Naphthalene	15.641	128	115828	18.566 ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	33713	17.203 ug/l	96

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083754.D
Acq On    : 10 Sep 2024  16:07
Operator  : JC\MD
Sample    : VN0910WBSD01
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 15   Sample Multiplier: 1

Quant Time: Sep 11 03:14:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title  : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

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

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

1
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15
16

Quantitation Report (QT Reviewed)

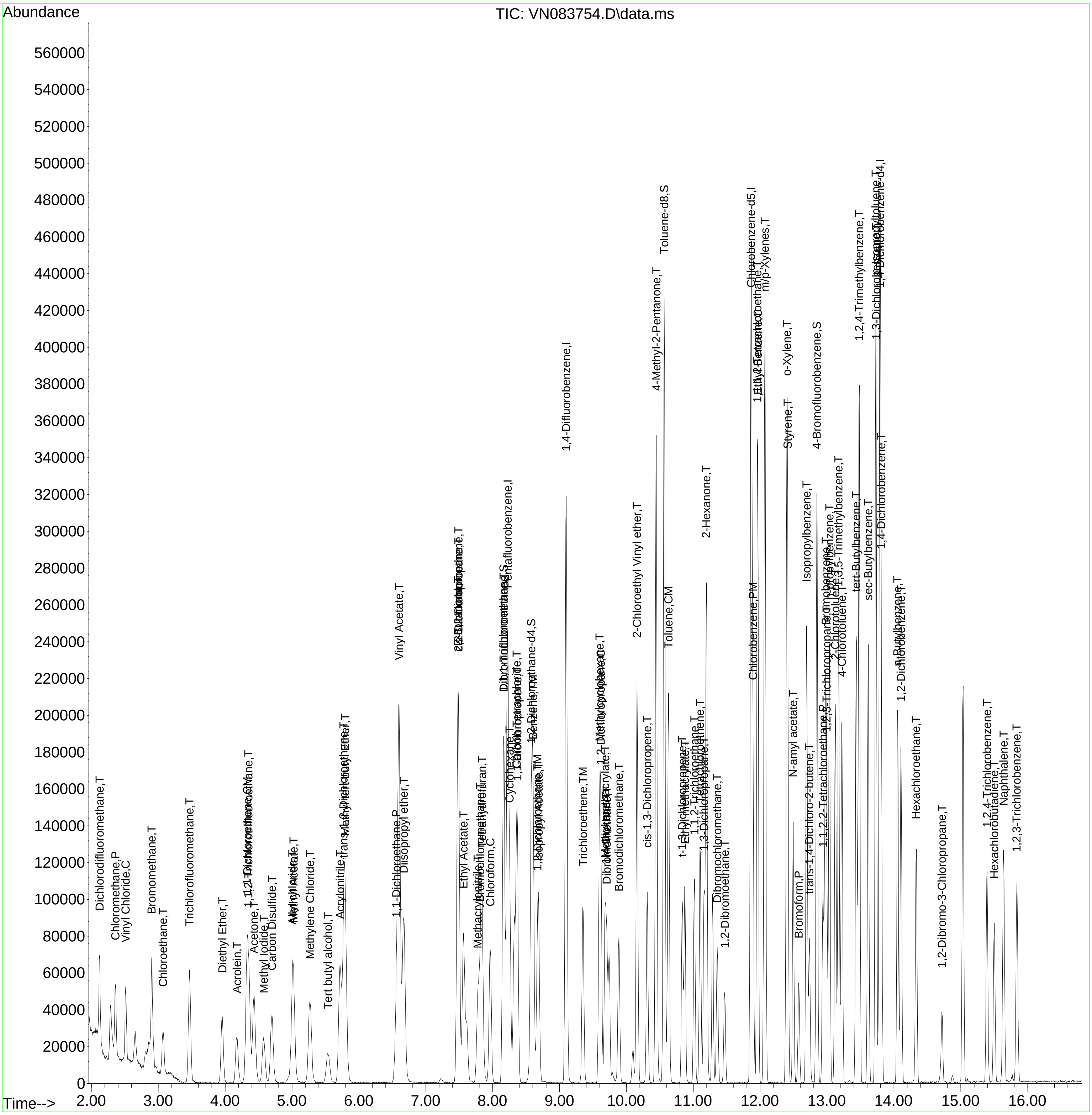
Sample Results: **VN083754.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091024\
Data File : VN083754.D
Acq On : 10 Sep 2024 16:07
Operator : JC\MD
Sample : VN0910WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 11 03:14:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 02:47:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

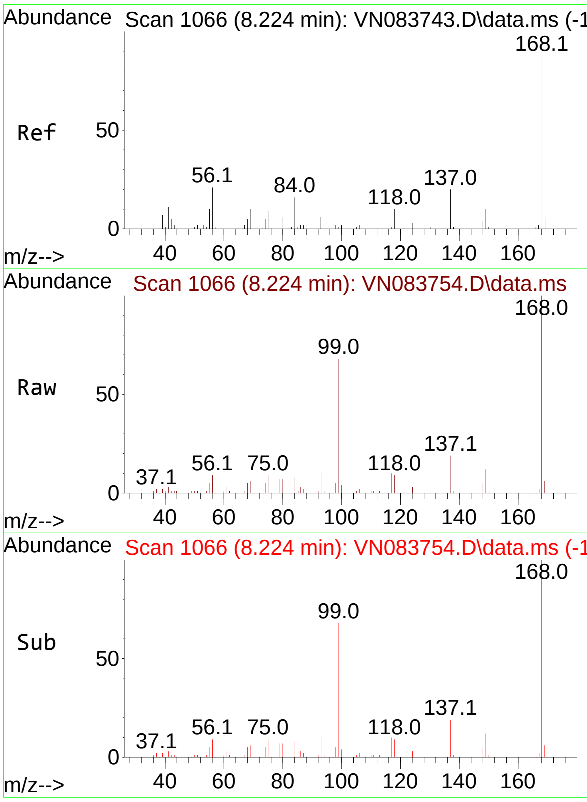
Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

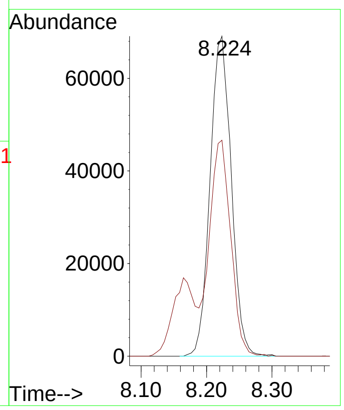
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

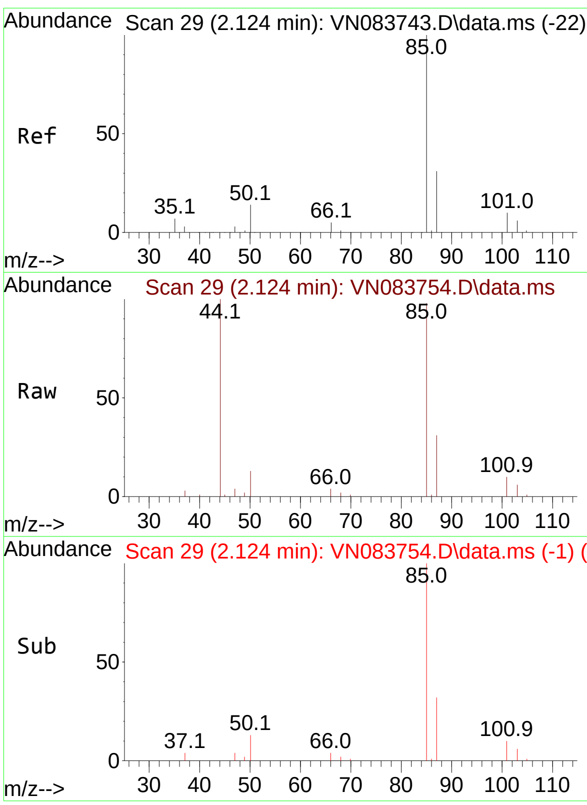


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:168 Resp: 15528

Ion	Ratio	Lower	Upper
168	100		
99	67.5	54.2	81.2

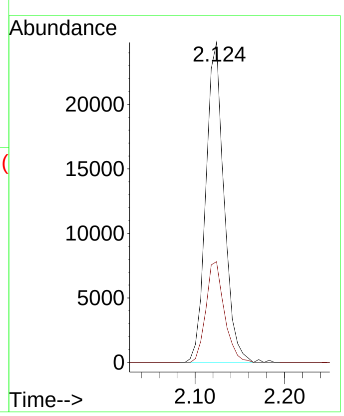


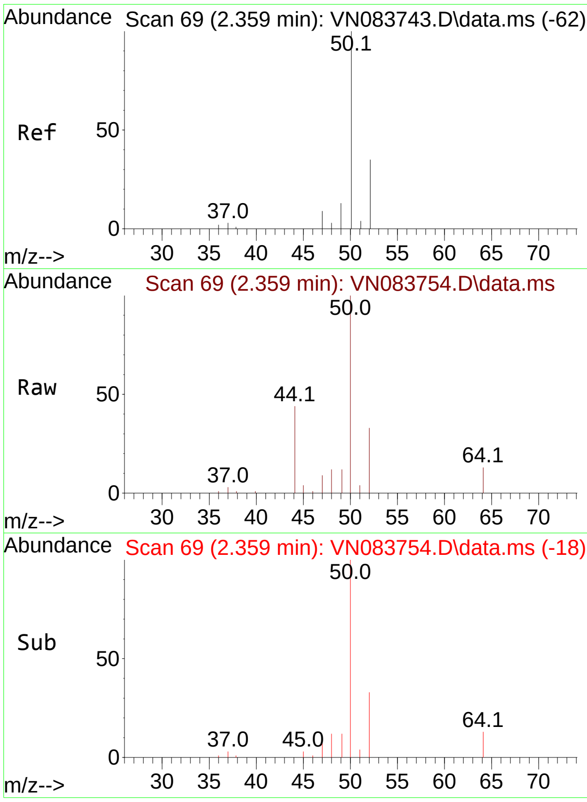


#2
Dichlorodifluoromethane
Concen: 19.373 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 85 Resp: 34938

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.7	47.0





#3
Chloromethane
Concen: 18.713 ug/l
RT: 2.359 min   Scan# 6
Delta R.T.   0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024   16:07

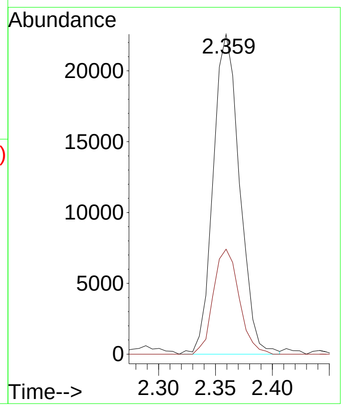
Tgt Ion: 50 Resp: 3658

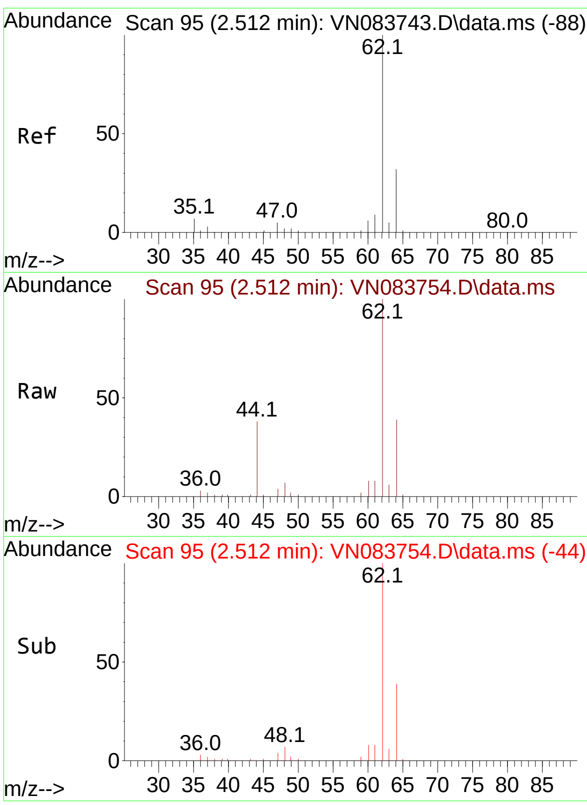
Ion	Ratio	Lower	Upper
50	100		
52	32.8	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone   09/11/2024
Supervised By :Semsettin Yesilyurt   09/11/2024

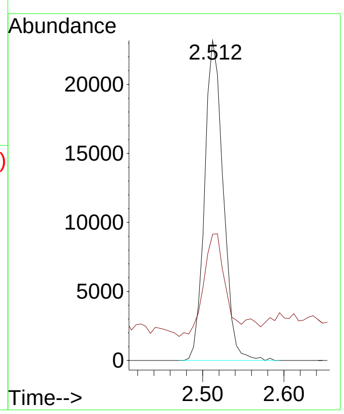




#4
Vinyl Chloride
Concen: 18.735 ug/l
RT: 2.512 min   Scan# 95
Delta R.T.   -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024   16:07

Tgt Ion: 62 Resp: 37034

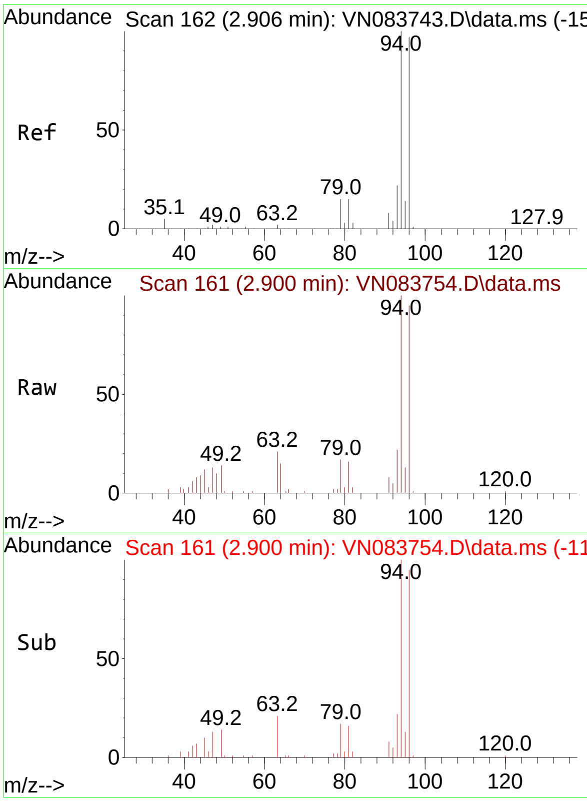
Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.7	37.1



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations
APPROVED

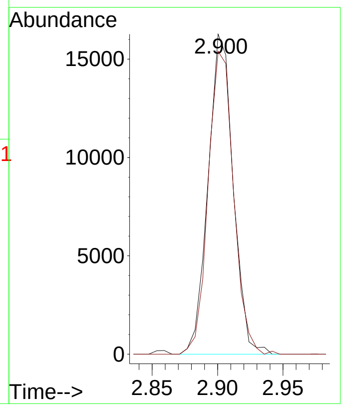
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

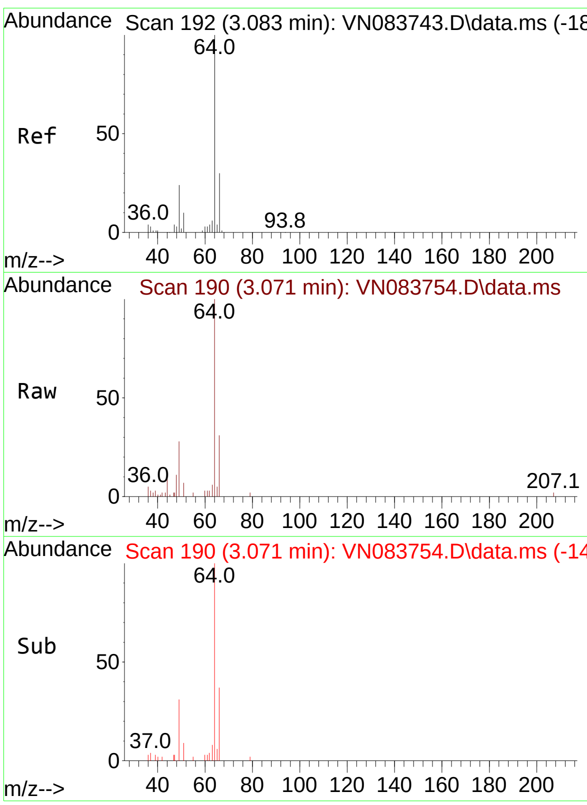


#5
Bromomethane
Concen: 19.133 ug/l
RT: 2.900 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 94 Resp: 2171

Ion	Ratio	Lower	Upper
94	100		
96	94.7	76.0	114.0

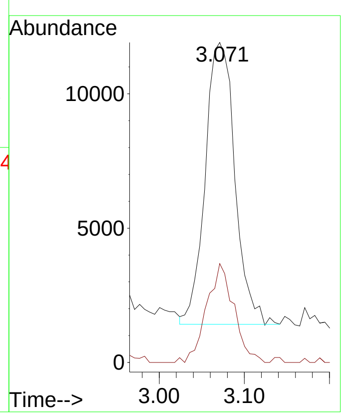




#6
Chloroethane
Concen: 18.372 ug/l
RT: 3.071 min Scan# 190
Delta R.T. -0.012 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

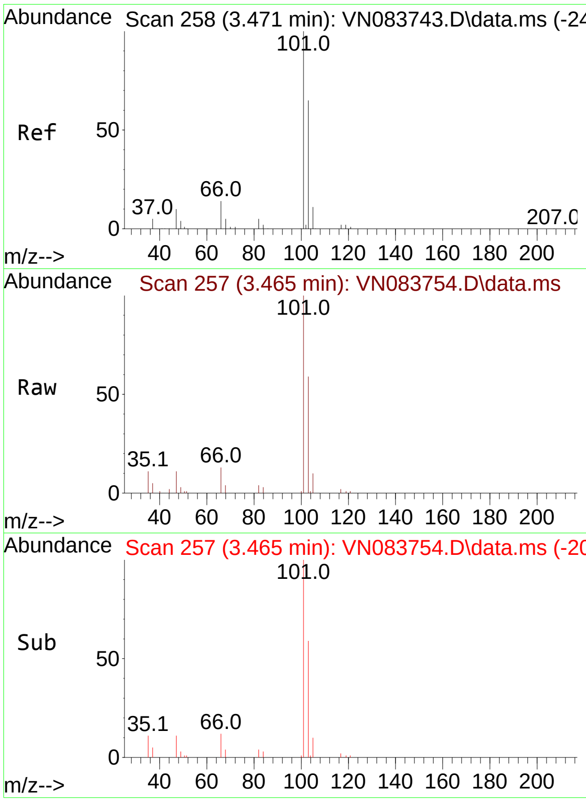
Tgt Ion: 64 Resp: 25474

Ion	Ratio	Lower	Upper
64	100		
66	33.4	23.9	35.9



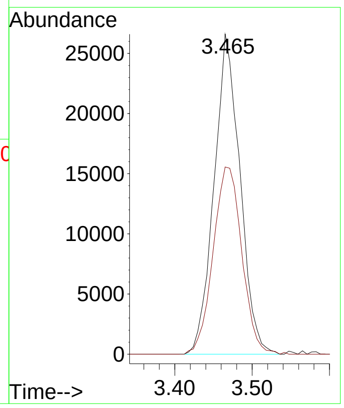
Instrument : MSVOA_N
ClientSampleId : VN0910WBSD01

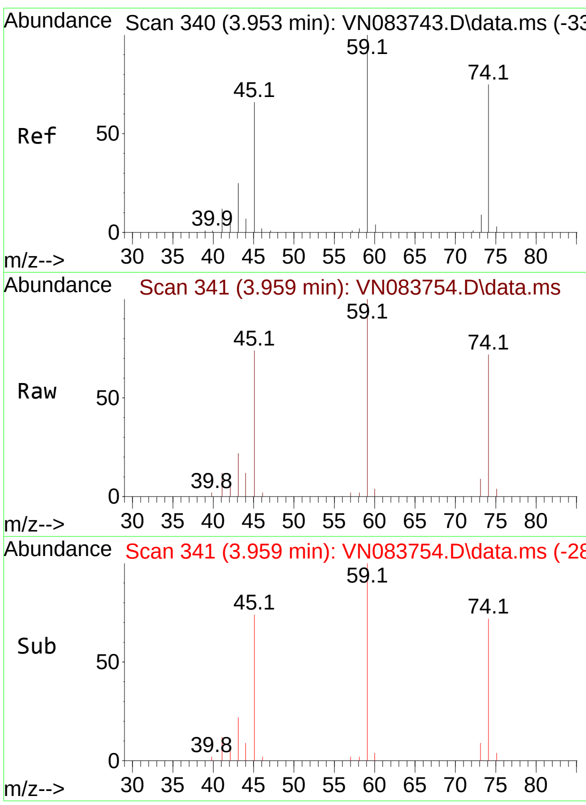
Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024




```
#7
Trichlorofluoromethane
Concen:   18.499 ug/l
RT:   3.465 min   Scan# 25
Delta R.T.   -0.006 min
Lab File:    VN083754.D
Acq: 10 Sep 2024   16:07

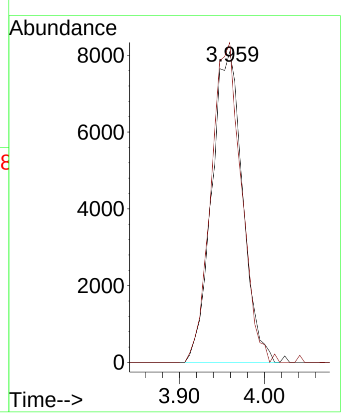
Tgt Ion:101 Resp:    62071
Ion   Ratio   Lower   Upper
101   100
103    58.5    51.4    77.0
```

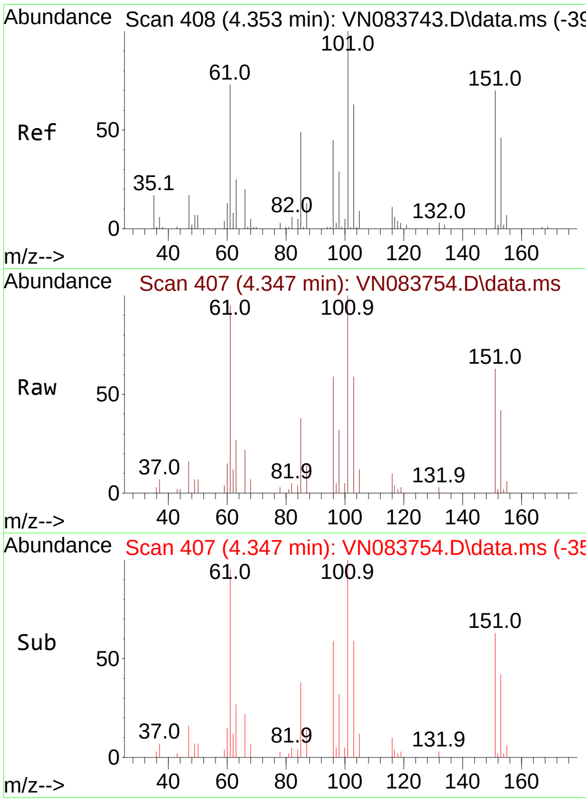





```
#8
Diethyl Ether
Concen:   18.153 ug/l
RT:   3.959 min   Scan# 341
Delta R.T.   0.006 min
Lab File:    VN083754.D
Acq: 10 Sep 2024   16:07

Tgt Ion: 74 Resp:    20417
Ion   Ratio   Lower   Upper
 74   100
 45   101.3    46.7   140.1
```

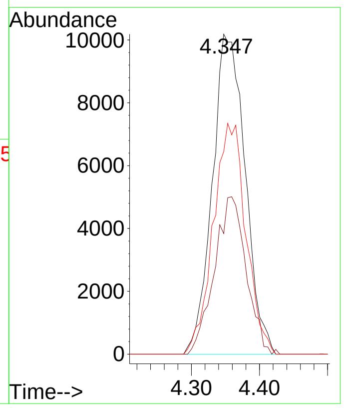




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.213 ug/l
RT: 4.347 min Scan# 40
Delta R.T. -0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:101 Resp: 34170

Ion	Ratio	Lower	Upper
101	100		
85	47.8	36.2	54.4
151	71.8	57.7	86.5



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

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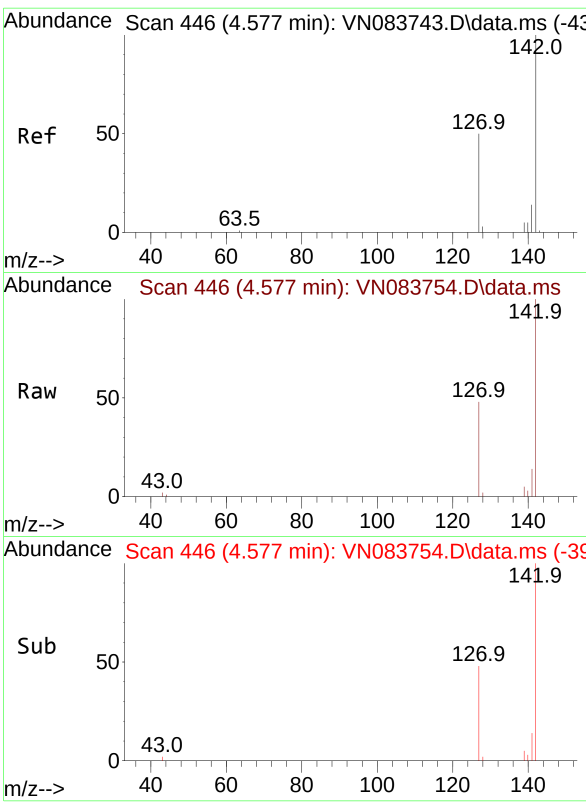
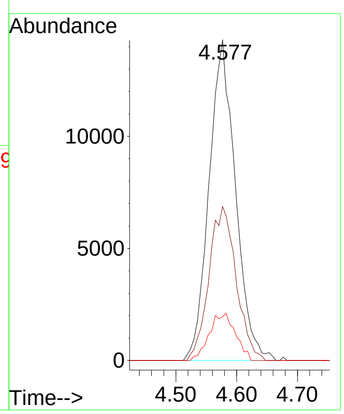


#10
Methyl Iodide
Concen: 19.073 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:142 Resp: 43140

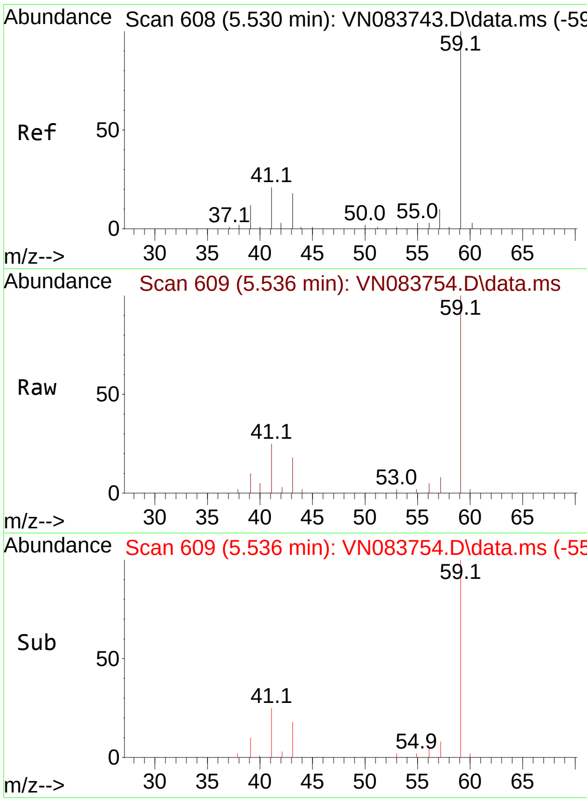
Ion	Ratio	Lower	Upper
142	100		
127	48.1	37.5	56.3
141	13.7	11.0	16.4



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

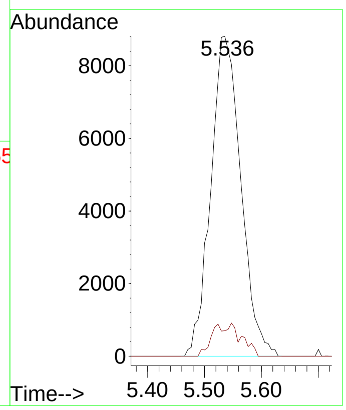
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

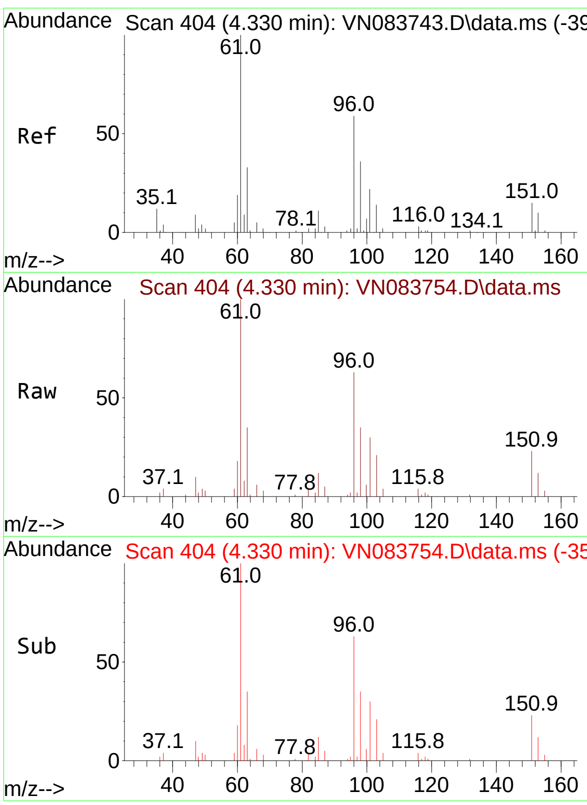


#11
Tert butyl alcohol
Concen: 103.580 ug/l
RT: 5.536 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 59 Resp: 3247

Ion	Ratio	Lower	Upper
59	100		
57	4.6	8.7	13.1

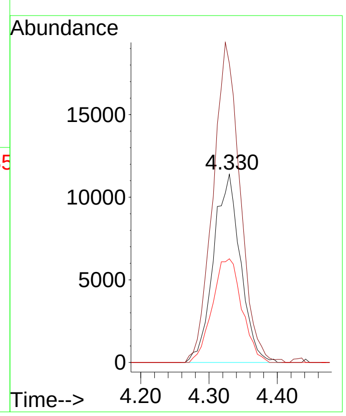




#12
1,1-Dichloroethene
Concen: 18.712 ug/l
RT: 4.330 min Scan# 404
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 96 Resp: 31428

Ion	Ratio	Lower	Upper
96	100		
61	158.8	143.4	215.0
98	55.1	52.7	79.1

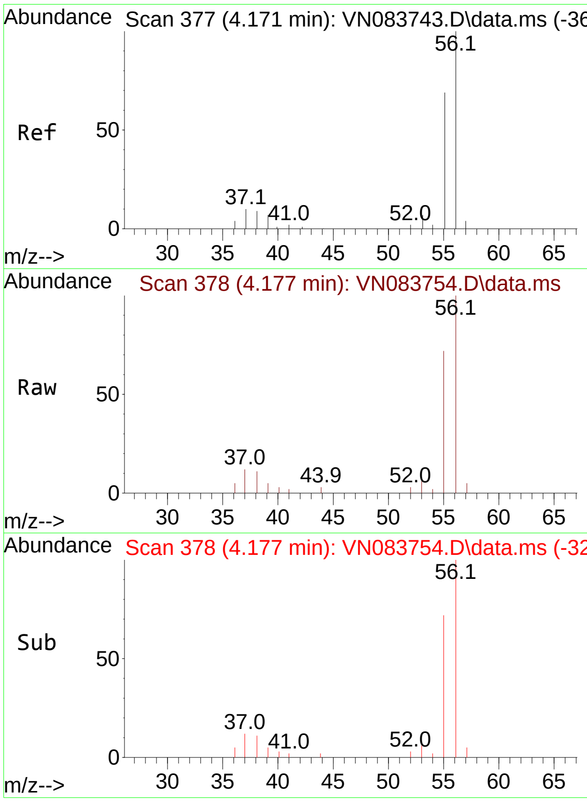


Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

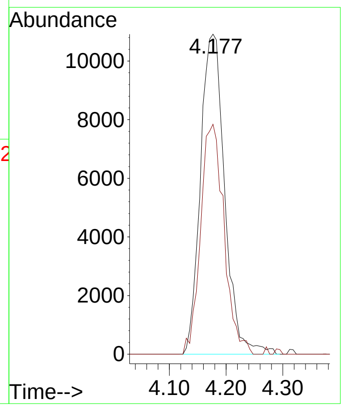
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

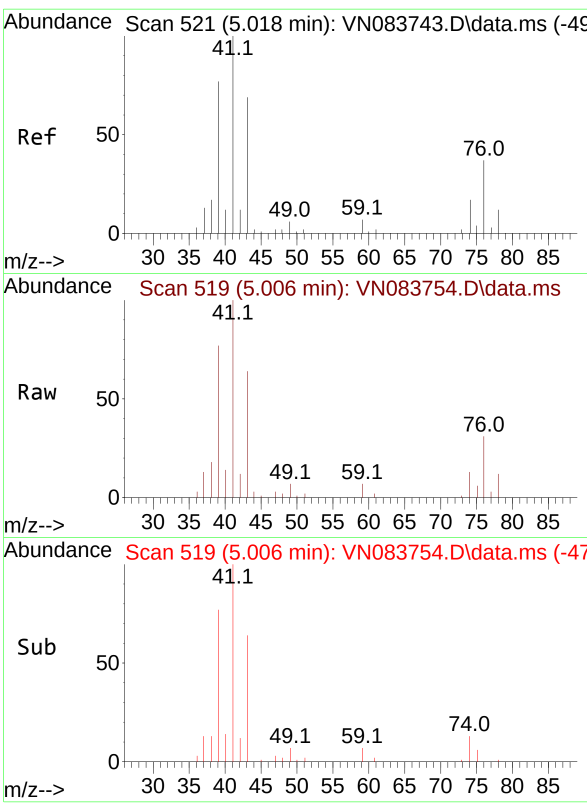
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#13
Acrolein
Concen:  104.931 ug/l
RT:    4.177 min  Scan# 37
Delta R.T.   0.006 min
Lab File:    VN083754.D
Acq: 10 Sep 2024  16:07

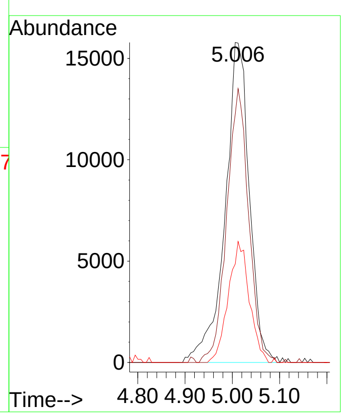
Tgt Ion: 56 Resp:   3246
Ion  Ratio  Lower  Upper
 56  100
 55   69.2   58.2   87.2
```






```
#14
Allyl chloride
Concen:   18.909 ug/l
RT:    5.006 min  Scan# 519
Delta R.T.  -0.012 min
Lab File:    VN083754.D
Acq: 10 Sep 2024  16:07

Tgt Ion: 41 Resp:   56591
Ion  Ratio  Lower  Upper
 41  100
 39   76.8   59.3   88.9
 76   32.6   27.7   41.5
```

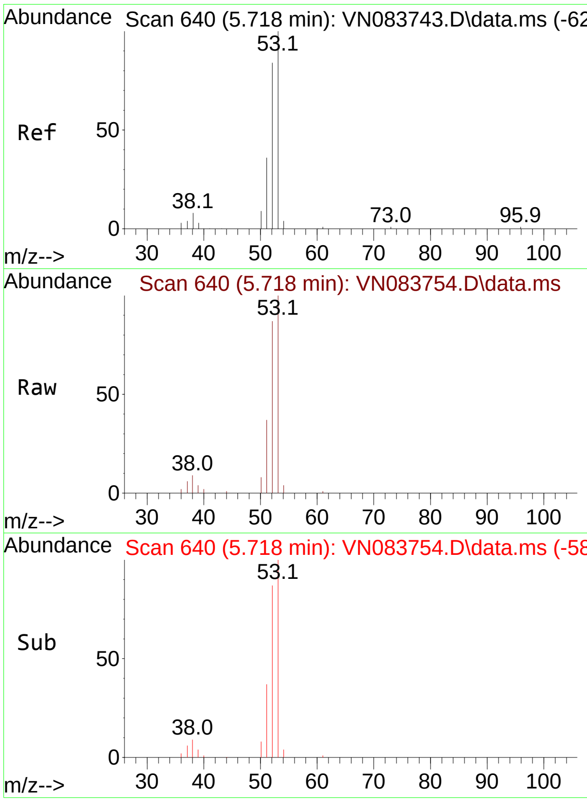


Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

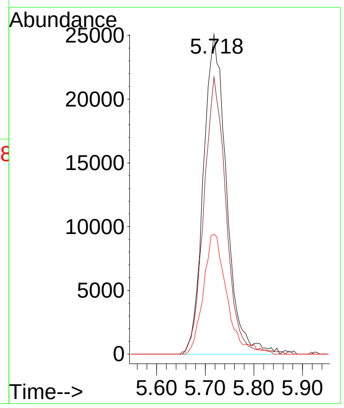
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

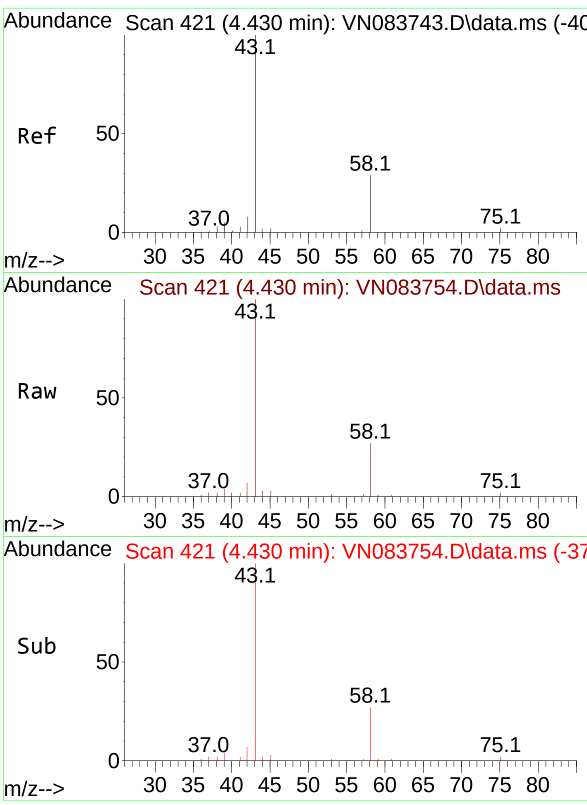


#15
Acrylonitrile
Concen: 97.406 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 53 Resp: 8305

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.1	99.1
51	38.2	29.6	44.4

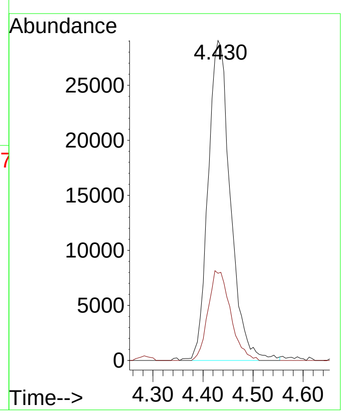


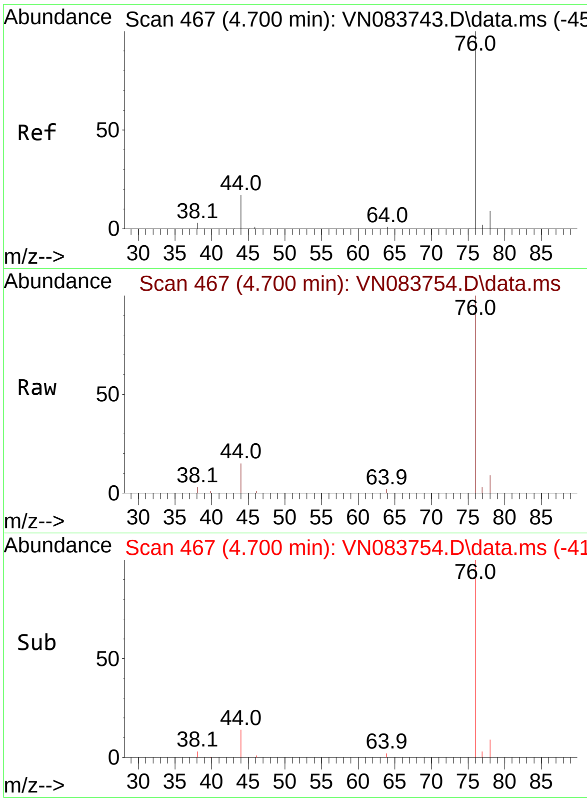


#16
Acetone
Concen: 96.077 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 43 Resp: 90182

Ion	Ratio	Lower	Upper
43	100		
58	27.2	23.7	35.5





#17
Carbon Disulfide
Concen: 17.757 ug/l
RT: 4.700 min Scan# 4(
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 76 Resp: 83426

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.1	10.7

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

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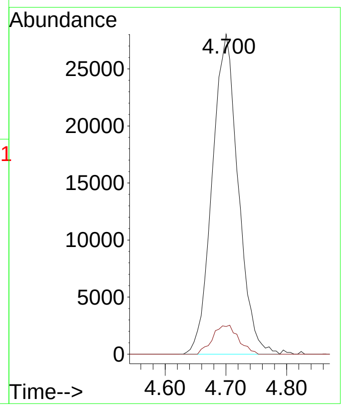

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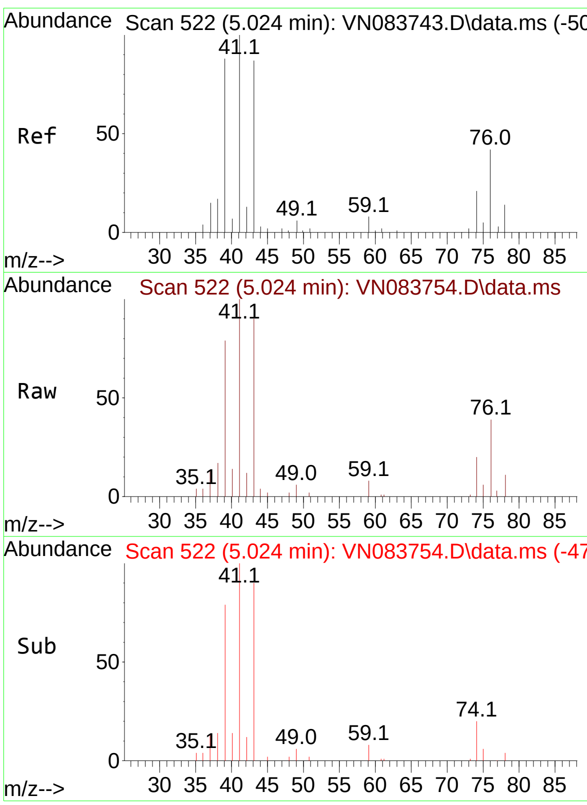
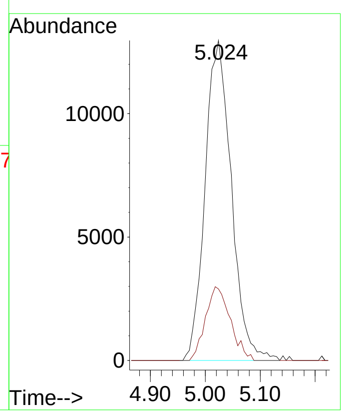


#18
Methyl Acetate
Concen: 20.987 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 43 Resp: 43151

Ion	Ratio	Lower	Upper
43	100		
74	21.7	19.0	28.4



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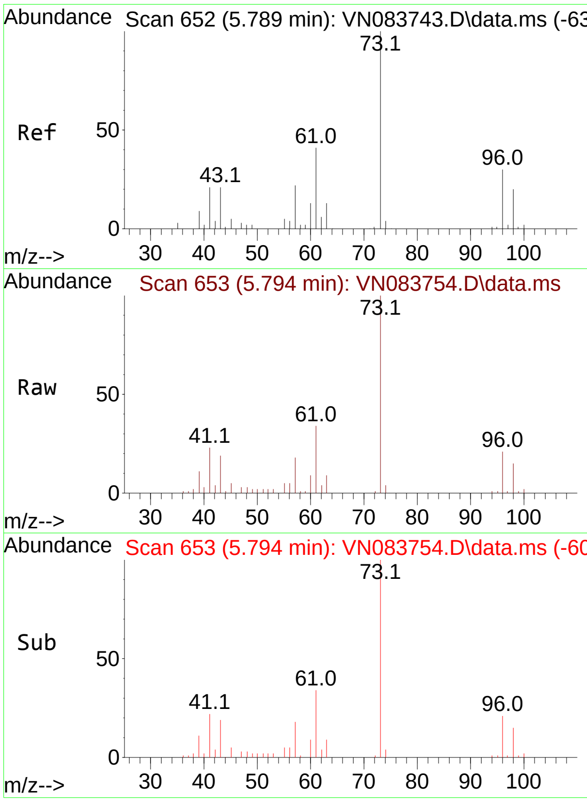
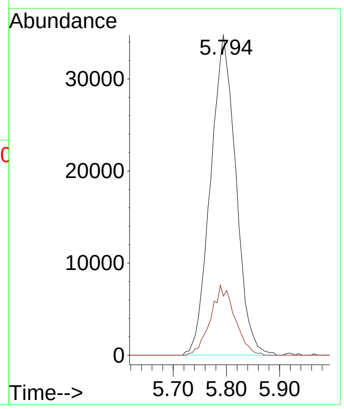
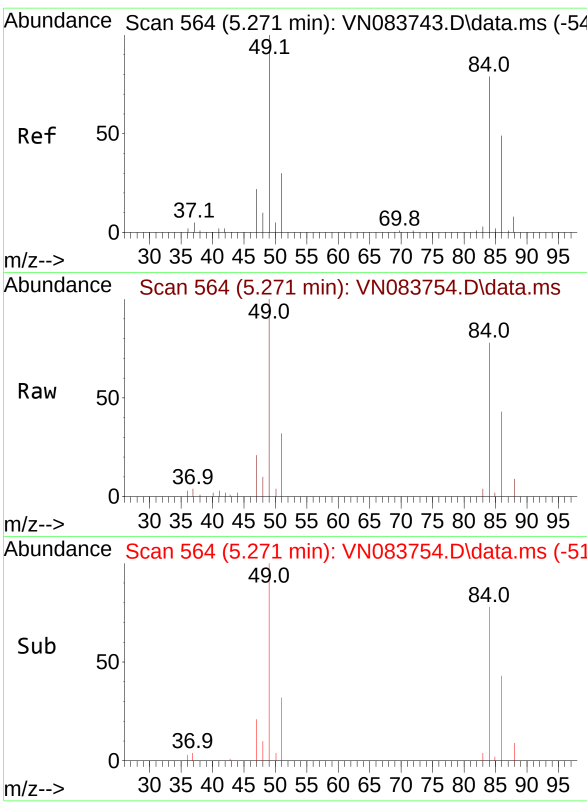


#19
Methyl tert-butyl Ether
Concen: 18.945 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 73 Resp: 11514

Ion	Ratio	Lower	Upper
73	100		
57	18.5	17.0	25.6

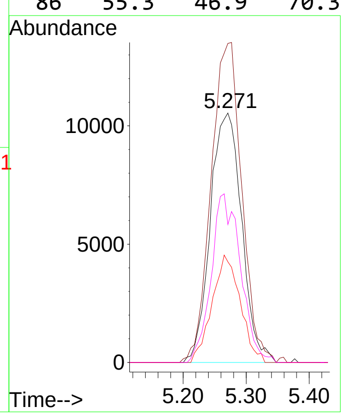




#20
Methylene Chloride
Concen: 18.990 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 84 Resp: 36477

Ion	Ratio	Lower	Upper
84	100		
49	127.9	93.4	140.0
51	40.3	29.2	43.8
86	55.3	46.9	70.3



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
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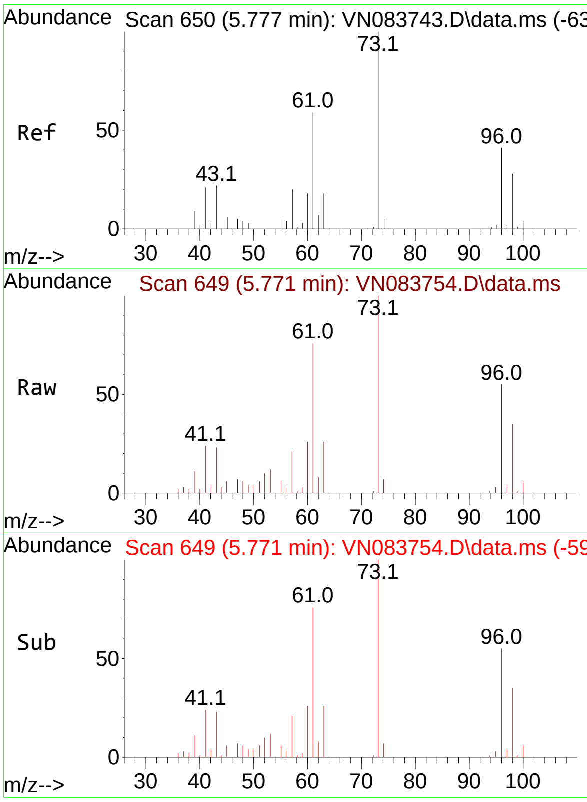
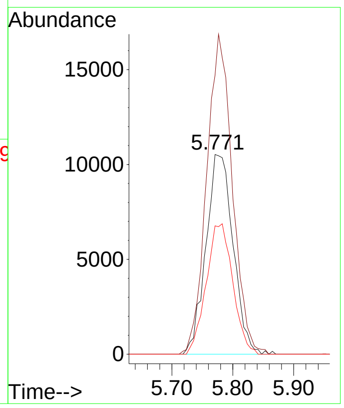
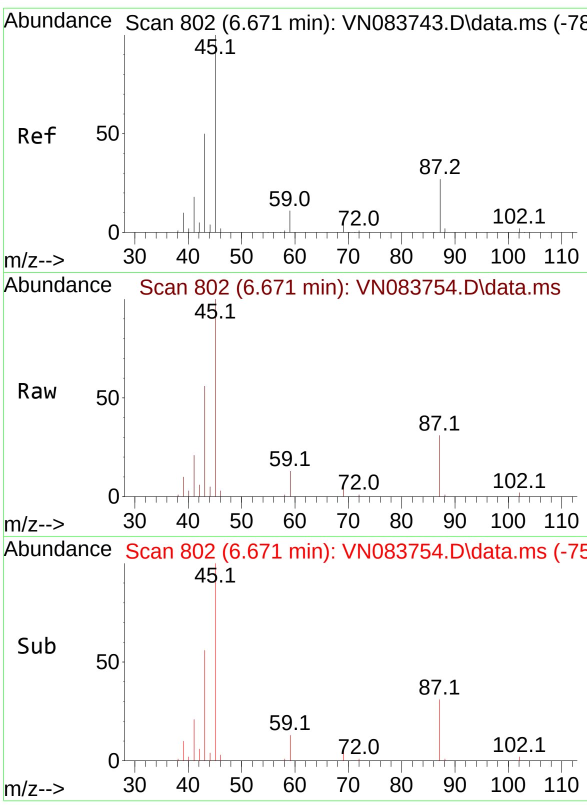


#21
trans-1,2-Dichloroethene
Concen: 18.147 ug/l
RT: 5.771 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 96 Resp: 32664

Ion	Ratio	Lower	Upper
96	100		
61	139.7	106.0	159.0
98	64.3	52.2	78.2

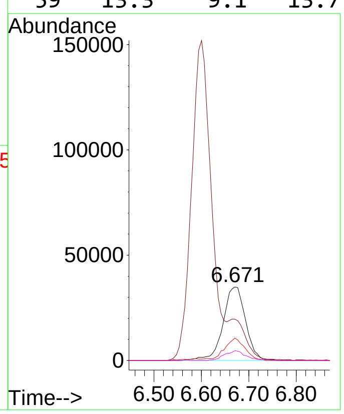




#22
Diisopropyl ether
Concen: 18.707 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 45 Resp: 115246

Ion	Ratio	Lower	Upper
45	100		
43	55.0	43.4	65.0
87	30.5	22.6	33.8
59	13.3	9.1	13.7



Instrument :
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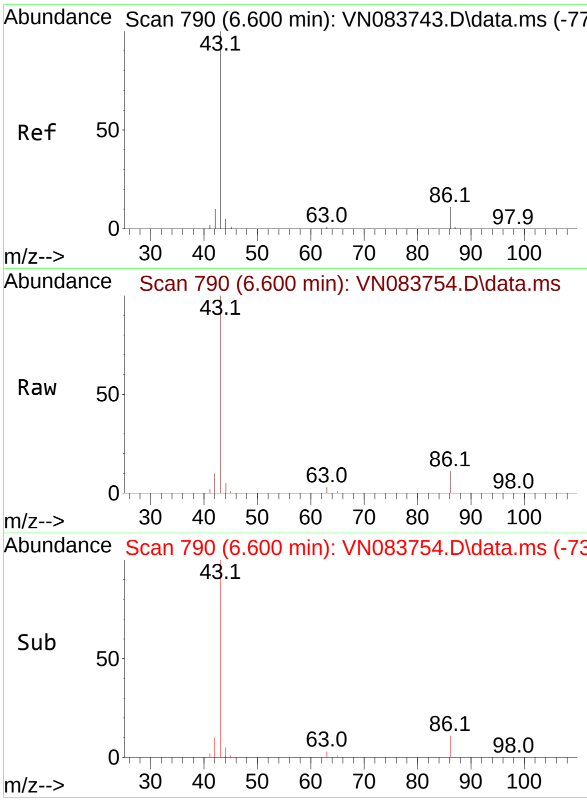
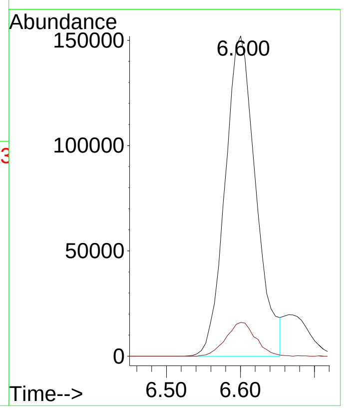
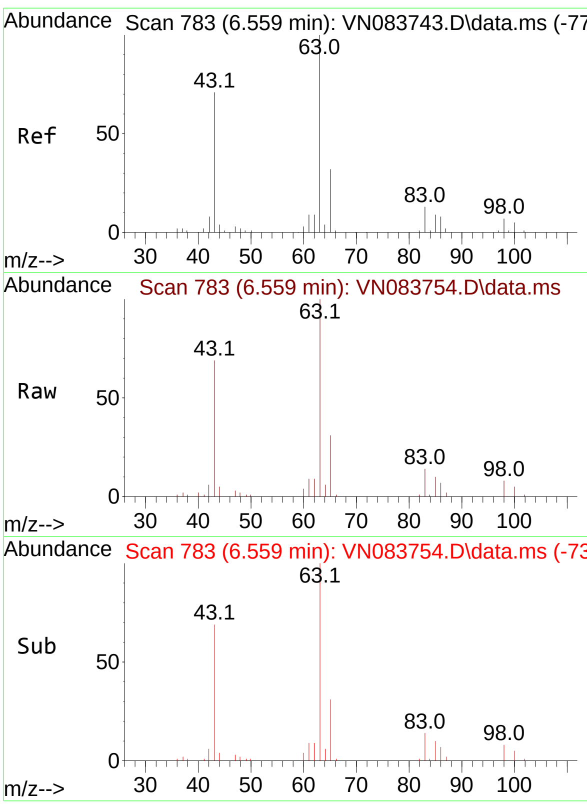


#23
Vinyl Acetate
Concen: 97.505 ug/l
RT: 6.600 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 43 Resp: 43990

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.7	13.1

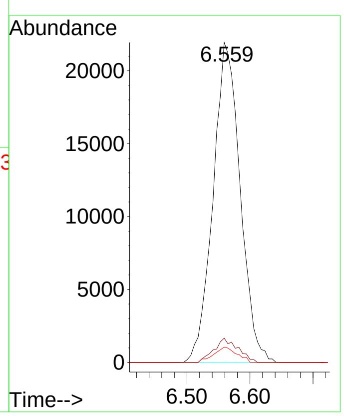




#24
1,1-Dichloroethane
Concen: 18.494 ug/l
RT: 6.559 min Scan# 783
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 63 Resp: 65642

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.5	10.4
100	4.8	2.5	7.5



Instrument :
MSVOA_N
ClientSampleId :
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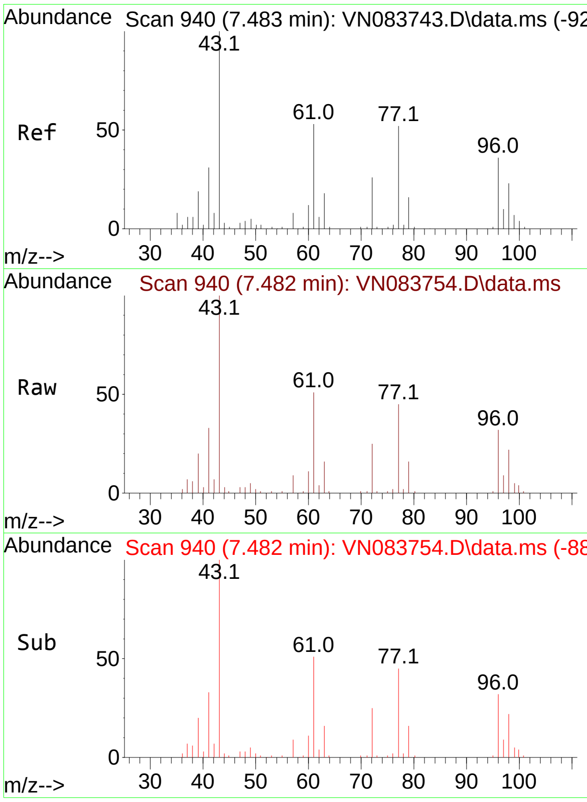
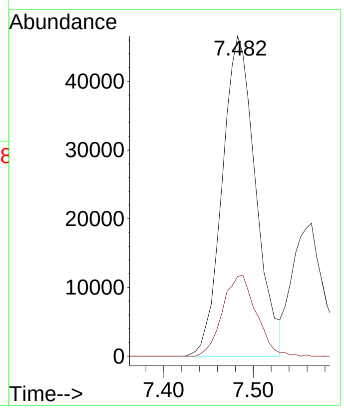
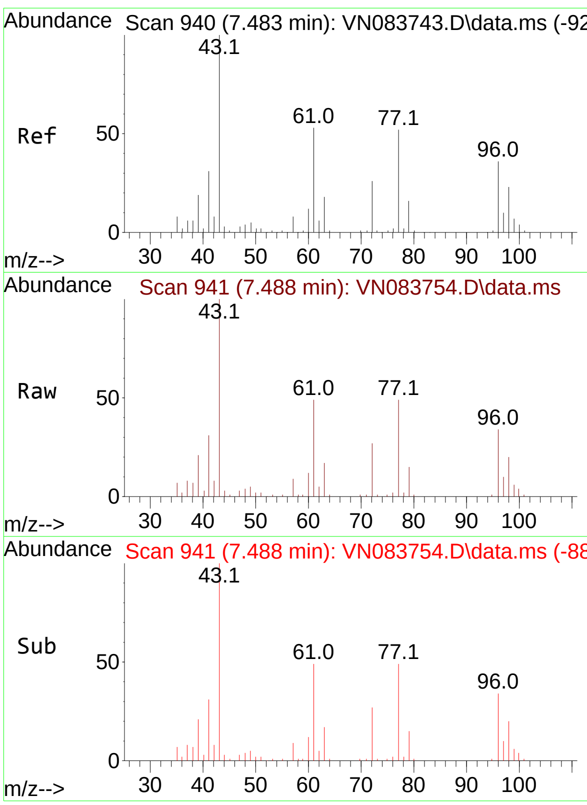


#25
2-Butanone
Concen: 97.576 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 43 Resp: 120379

Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.8	31.2

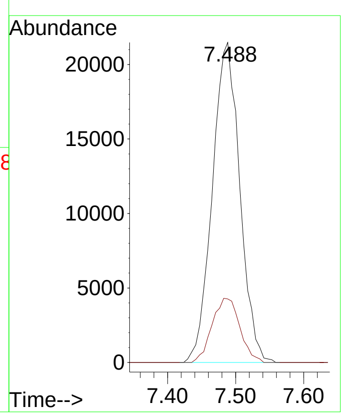




#26
2,2-Dichloropropane
Concen: 18.480 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 77 Resp: 60404

Ion	Ratio	Lower	Upper
77	100		
97	20.3	10.2	30.4



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
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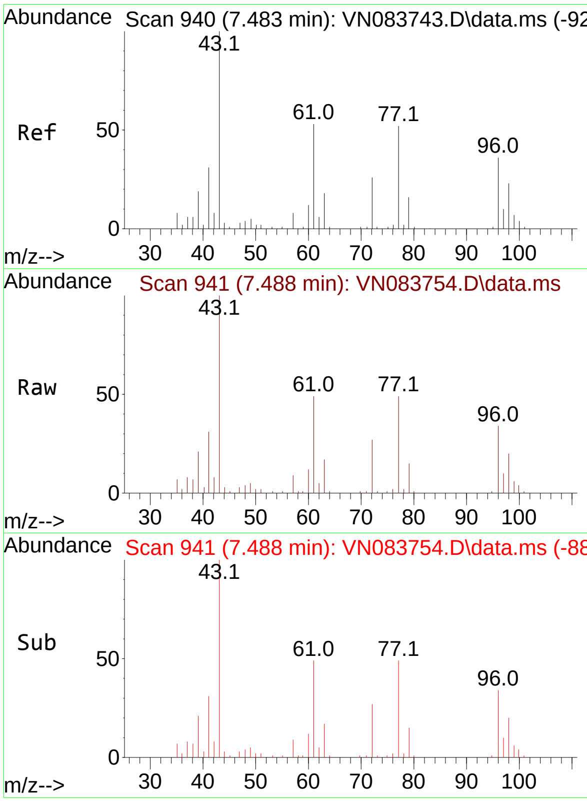
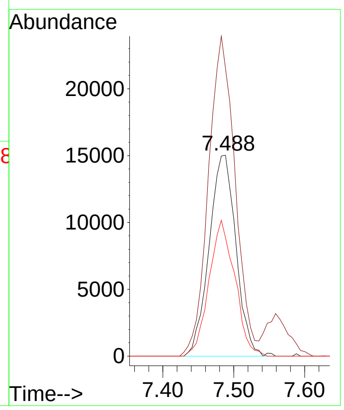
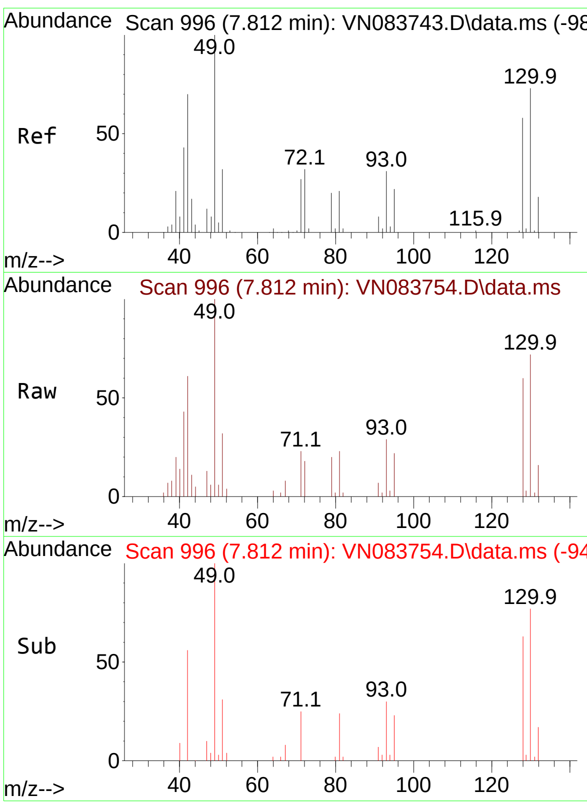


#27
cis-1,2-Dichloroethene
Concen: 18.540 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 96 Resp: 3961

Ion	Ratio	Lower	Upper
96	100		
61	158.4	0.0	306.2
98	65.0	0.0	128.6

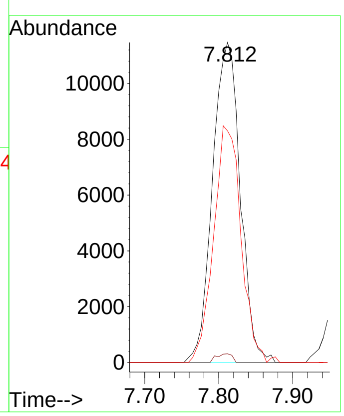




#28
Bromochloromethane
Concen: 20.037 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 49 Resp: 29949

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.4
130	73.0	60.2	90.2



Instrument :
MSVOA_N
ClientSampleId :
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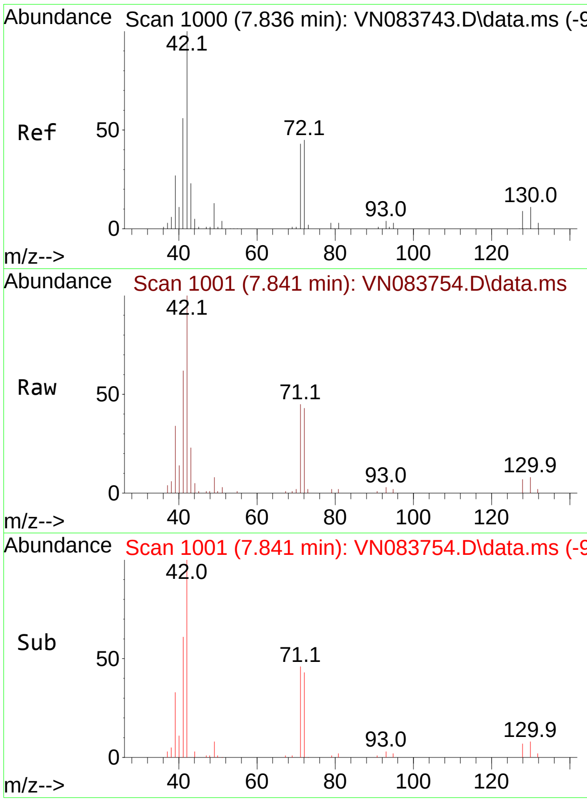
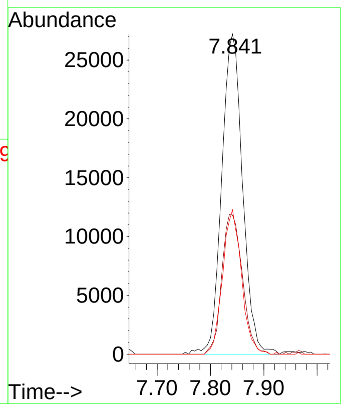
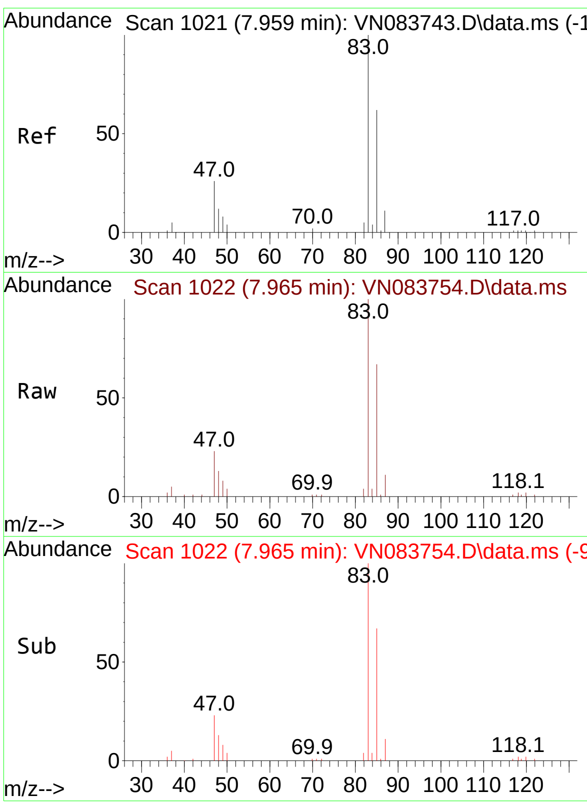



```
#29
Tetrahydrofuran
Concen:  101.550 ug/l
RT:    7.841 min   Scan# 10
Delta R.T.   0.006 min
Lab File:    VN083754.D
Acq: 10 Sep 2024   16:07

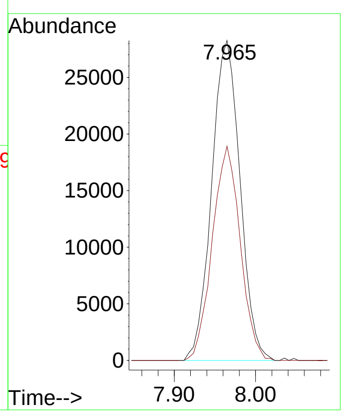
Tgt Ion: 42 Resp:    7407
Ion   Ratio   Lower   Upper
 42   100
 72    43.0    35.9    53.9
 71    40.8    33.9    50.9
```






```
#30
Chloroform
Concen:   18.235 ug/l
RT:    7.965 min   Scan# 1022
Delta R.T.   0.006 min
Lab File:    VN083754.D
Acq: 10 Sep 2024   16:07

Tgt Ion: 83 Resp:    68713
Ion   Ratio   Lower   Upper
 83   100
 85    66.9    52.8    79.2
```



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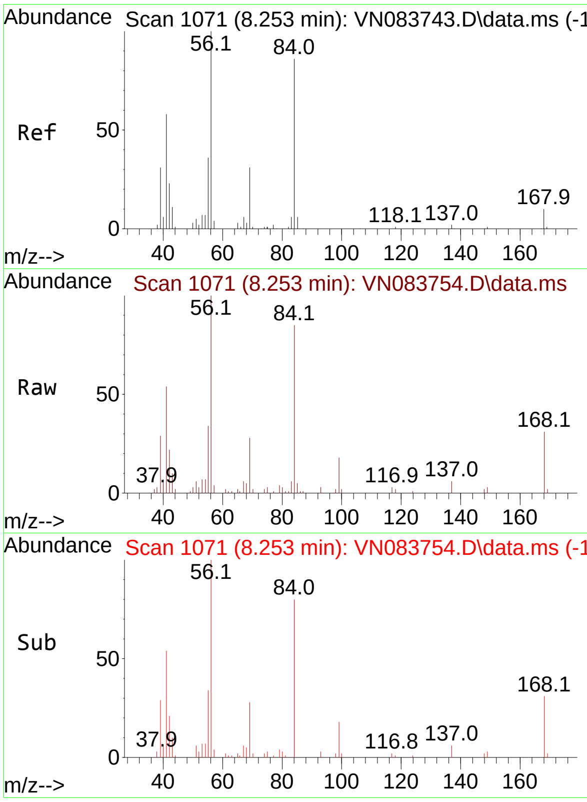
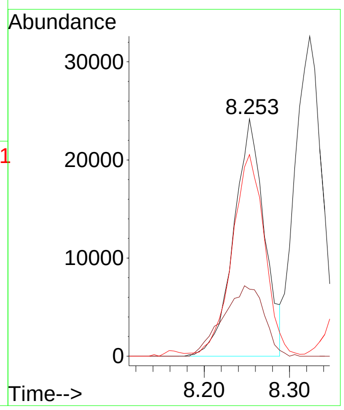
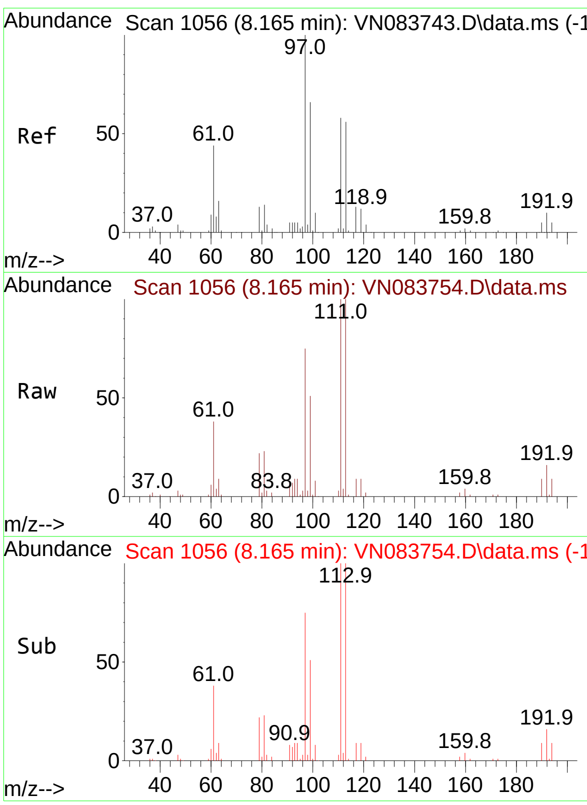


#31
Cyclohexane
Concen: 17.809 ug/l
RT: 8.253 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 56 Resp: 60268

Ion	Ratio	Lower	Upper
56	100		
69	28.3	26.9	40.3
84	83.4	69.2	103.8

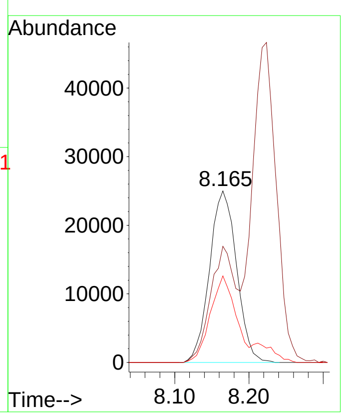


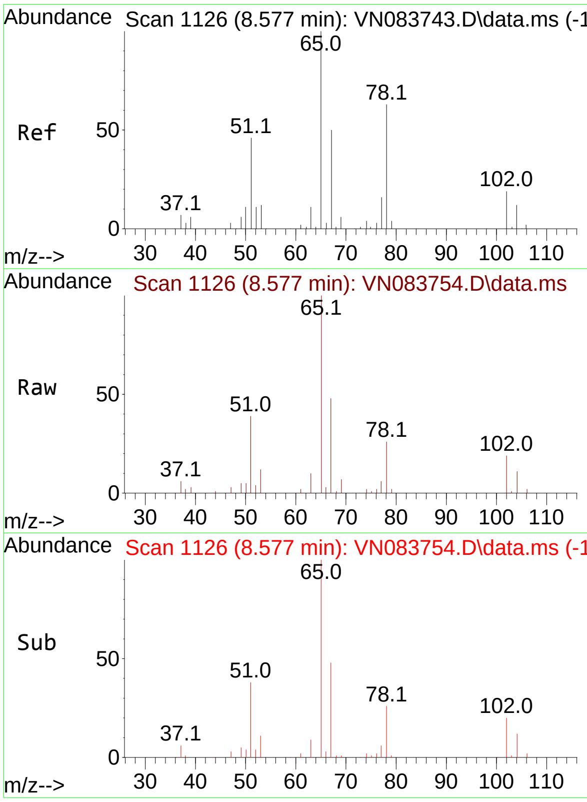


#32
1,1,1-Trichloroethane
Concen: 18.314 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 97 Resp: 63454

Ion	Ratio	Lower	Upper
97	100		
99	63.9	52.3	78.5
61	47.4	38.2	57.2





#33
1,2-Dichloroethane-d4
Concen: 46.908 ug/l
RT: 8.577 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 65 Resp: 10983

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	100.8

Instrument :
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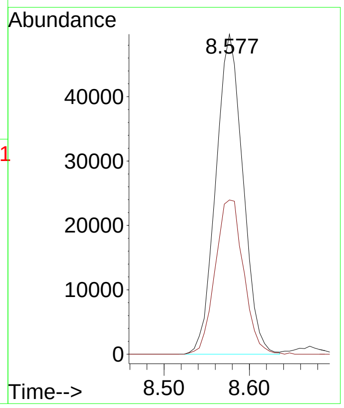
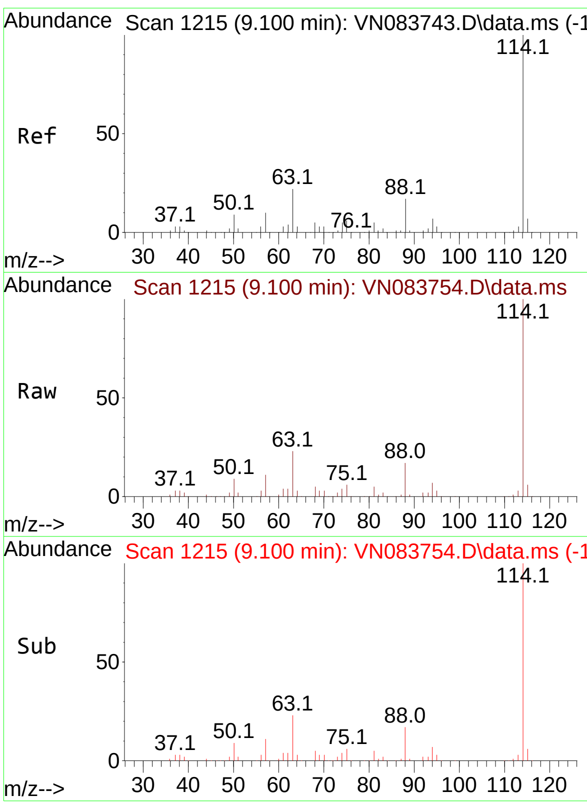
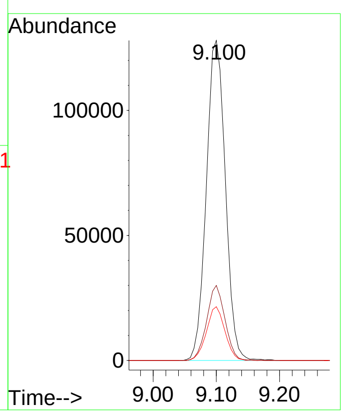


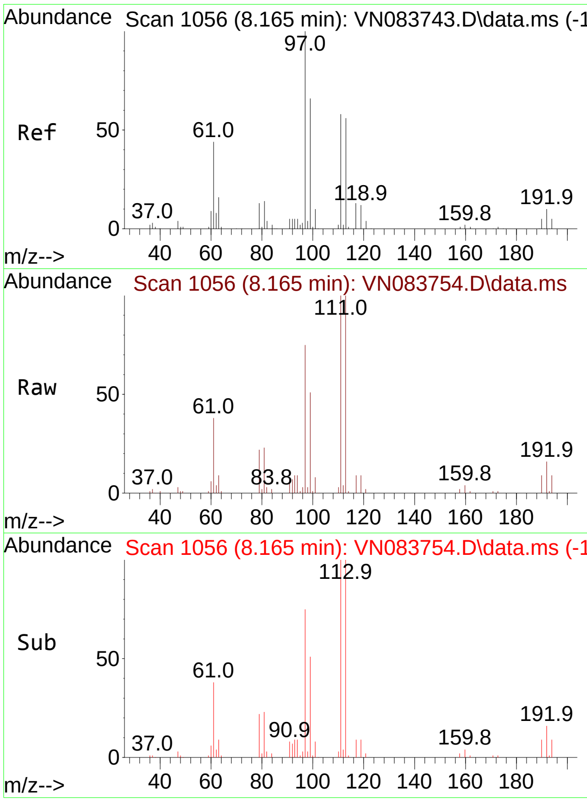


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:114 Resp: 268277

Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	43.4
88	16.8	0.0	32.6

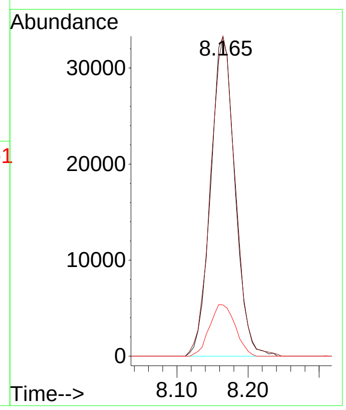




#35
Dibromofluoromethane
Concen: 45.830 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:113 Resp: 7871

Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.6	124.0
192	17.2	14.3	21.5



Instrument :
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ClientSampleId :
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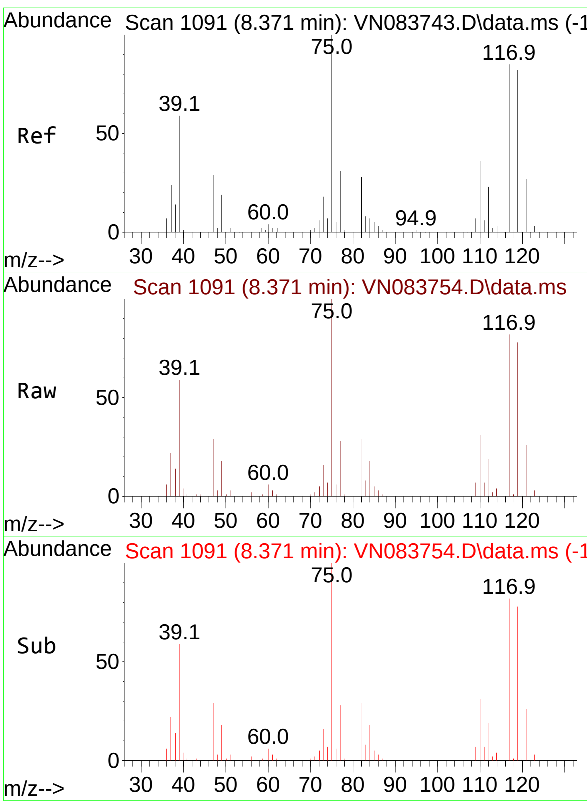
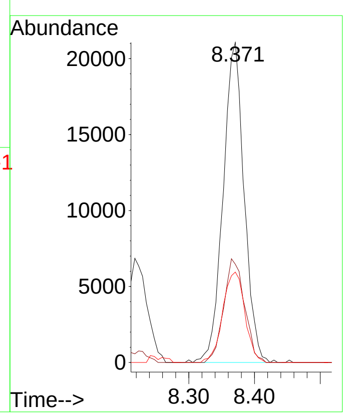


#36
1,1-Dichloropropene
Concen: 18.135 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 75 Resp: 46881

Ion	Ratio	Lower	Upper
75	100		
110	32.1	16.7	50.1
77	29.7	25.2	37.8

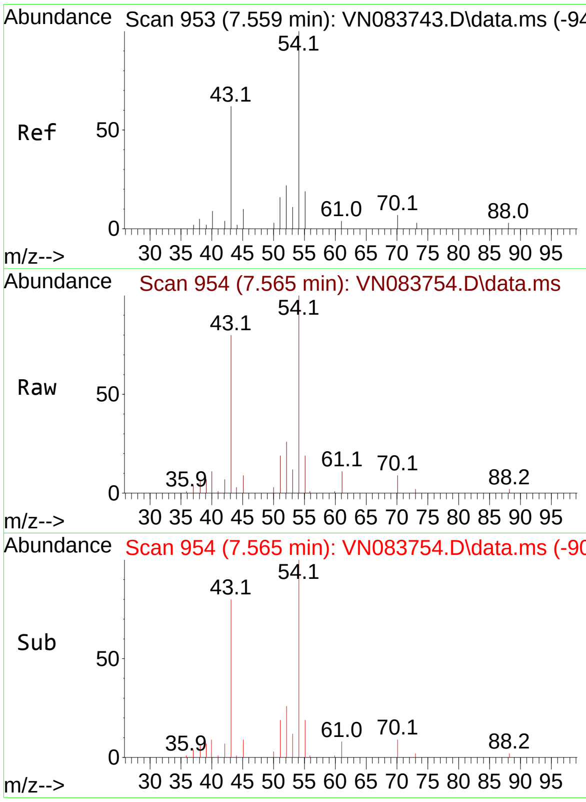


Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

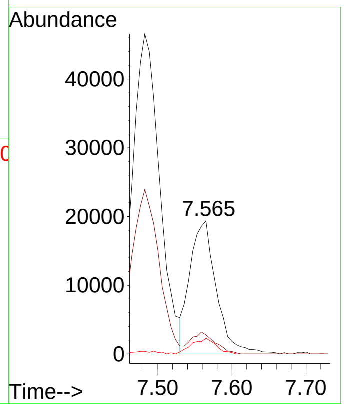
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

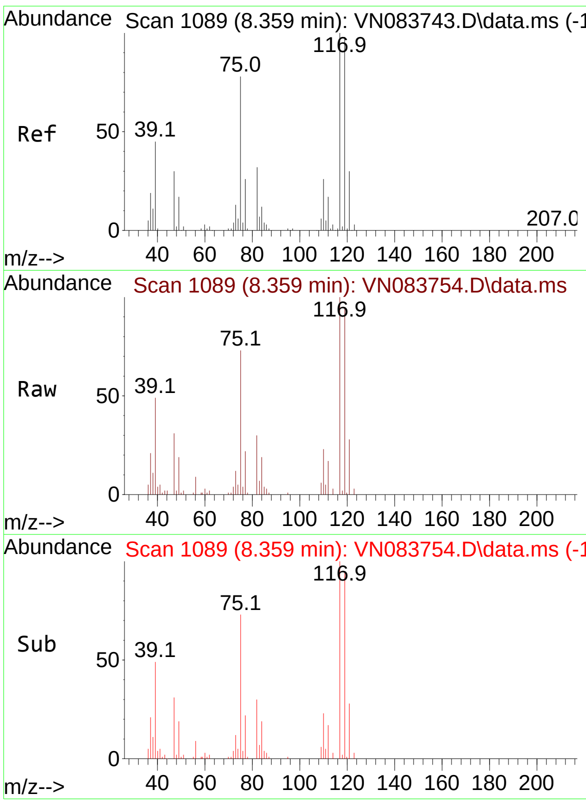
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16




```
#37
Ethyl Acetate
Concen:   20.571 ug/l
RT:   7.565 min  Scan# 9
Delta R.T.  0.006 min
Lab File:   VN083754.D
Acq: 10 Sep 2024  16:07

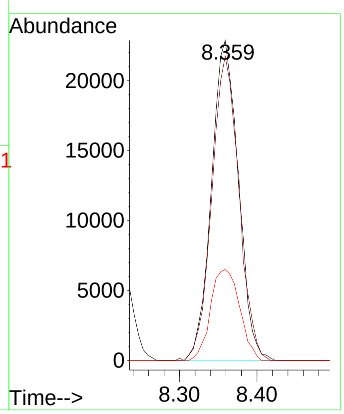
Tgt Ion: 43 Resp:   4826
Ion  Ratio  Lower  Upper
 43  100
 61   14.5   11.1   16.7
 70   10.6    8.8   13.2
```






```
#38
Carbon Tetrachloride
Concen:   18.897 ug/l
RT:   8.359 min  Scan# 1089
Delta R.T.  -0.000 min
Lab File:   VN083754.D
Acq: 10 Sep 2024  16:07

Tgt Ion:117 Resp:   55419
Ion  Ratio  Lower  Upper
117  100
119   95.1   76.1  114.1
121   28.4   24.1   36.1
```



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

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Reviewed By :John Carlone 09/11/2024
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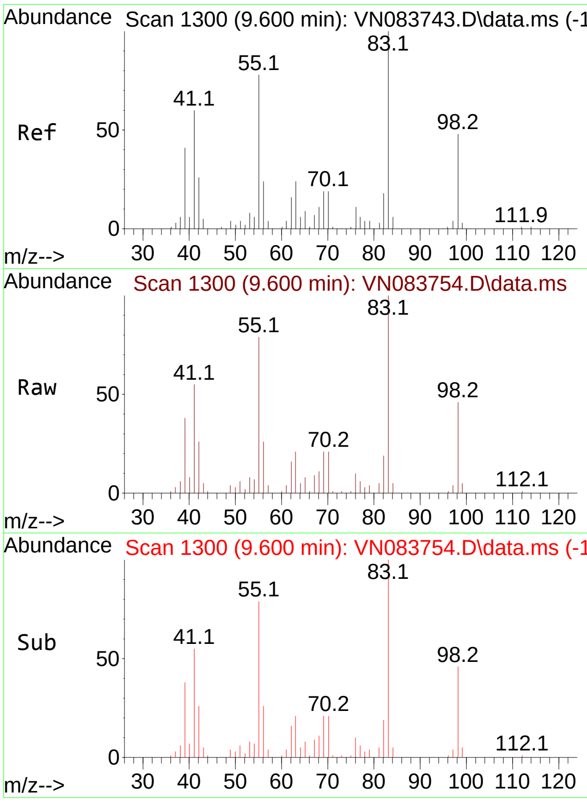
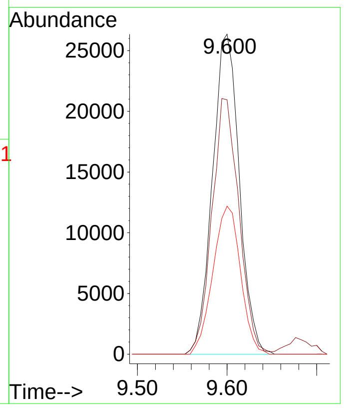
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

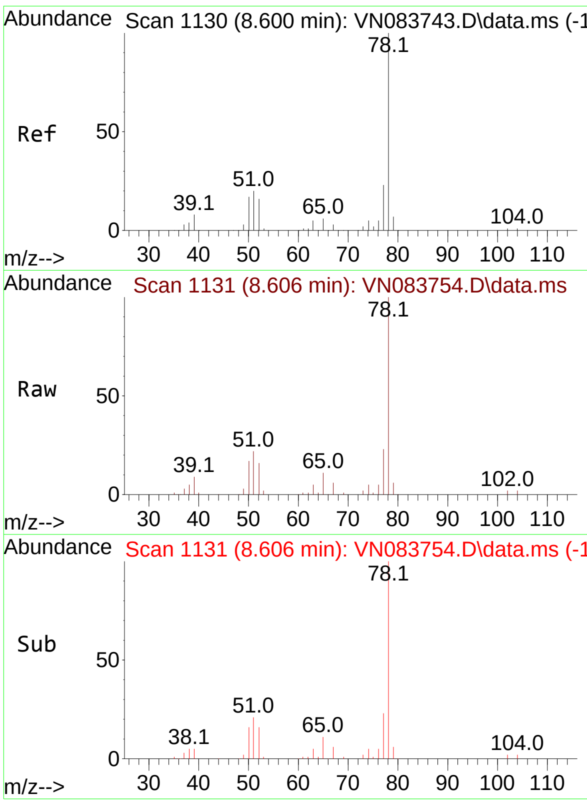


#39
Methylcyclohexane
Concen: 18.682 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 83 Resp: 5496

Ion	Ratio	Lower	Upper
83	100		
55	79.5	62.2	93.4
98	46.2	37.6	56.4

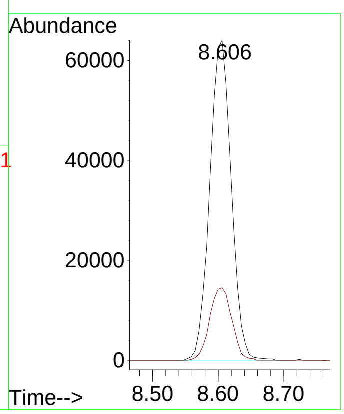


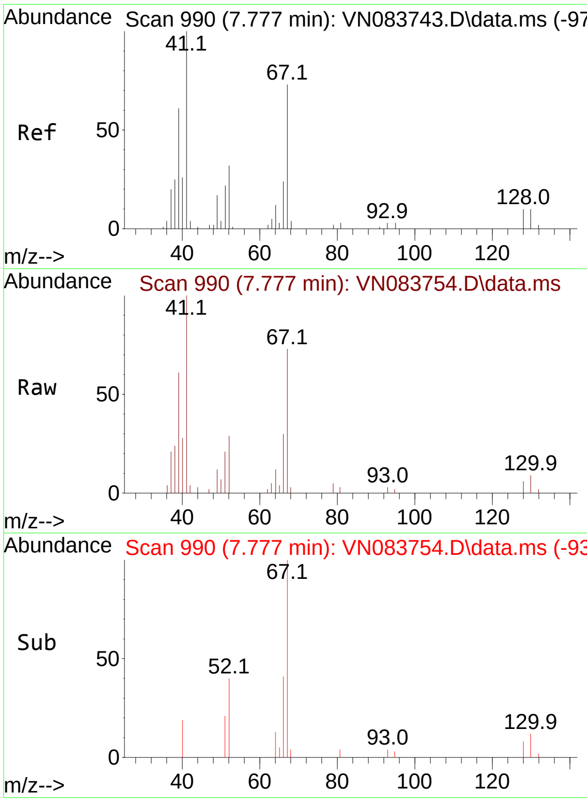


#40
Benzene
Concen: 18.793 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 78 Resp: 146220

Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.0	28.6

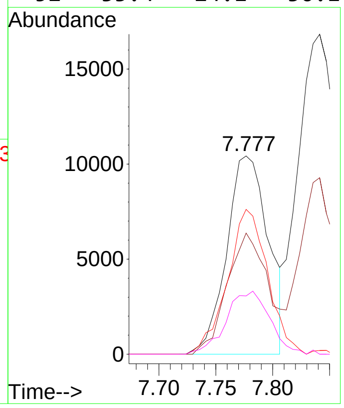




#41
Methacrylonitrile
Concen: 19.134 ug/l
RT: 7.777 min   Scan# 99
Delta R.T.   -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024   16:07

Tgt Ion: 41 Resp: 2655

Ion	Ratio	Lower	Upper
41	100		
39	62.0	45.4	68.2
67	70.3	55.9	83.9
52	33.4	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations
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Reviewed By :John Carlone   09/11/2024
Supervised By :Semsettin Yesilyurt   09/11/2024

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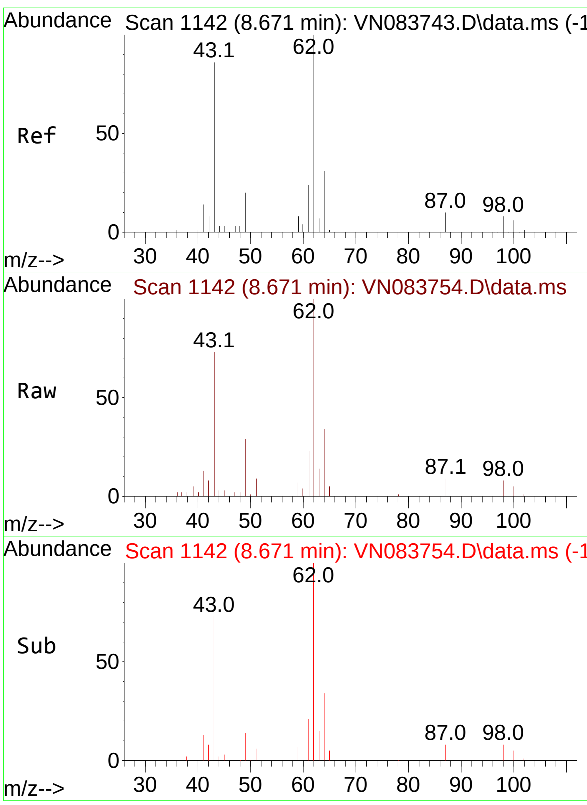
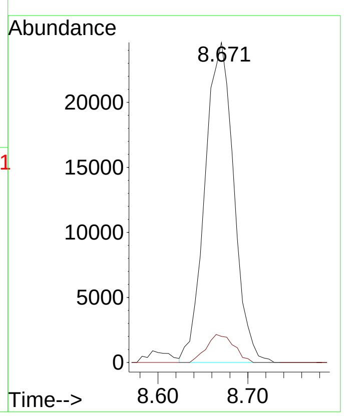


#42
1,2-Dichloroethane
Concen: 18.902 ug/l
RT: 8.671 min   Scan# 1142
Delta R.T.   -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024   16:07

Tgt Ion: 62 Resp: 54955

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	16.6



Instrument :
MSVOA_N
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VN0910WBSD01

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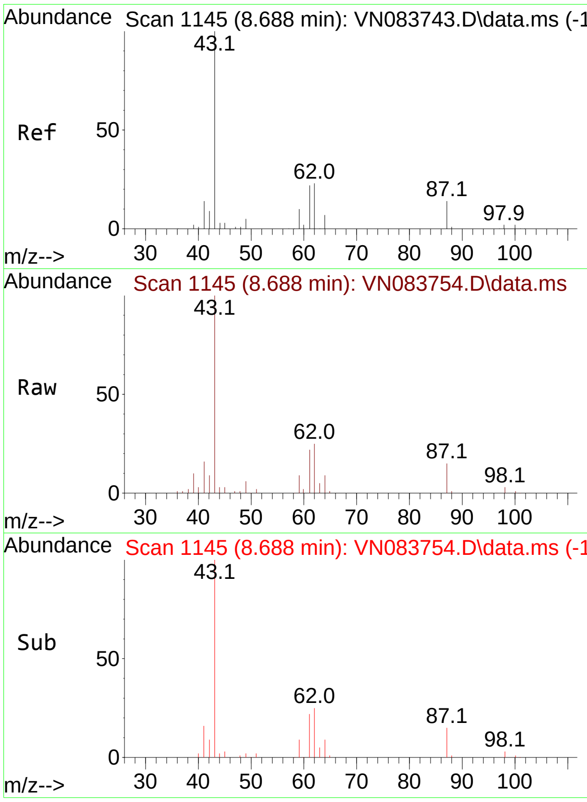
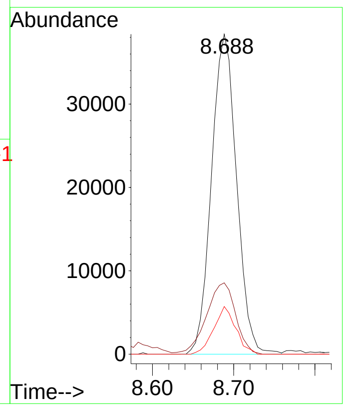
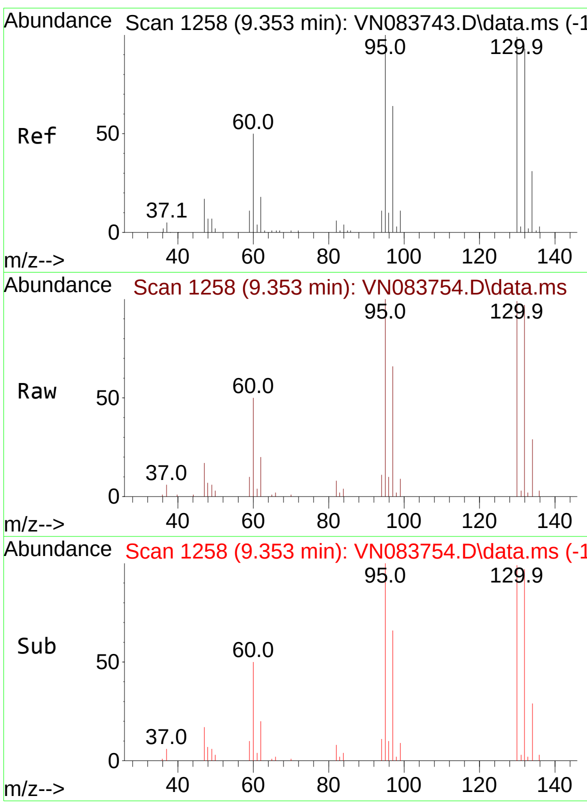


#43
Isopropyl Acetate
Concen: 19.401 ug/l
RT: 8.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 43 Resp: 8249

Ion	Ratio	Lower	Upper
43	100		
61	25.9	19.4	29.0
87	13.1	9.8	14.6

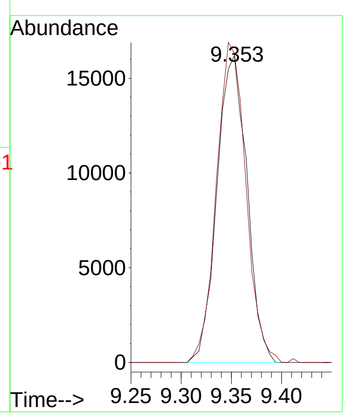




#44
Trichloroethene
Concen: 18.679 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:130 Resp: 33656

Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	200.4



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

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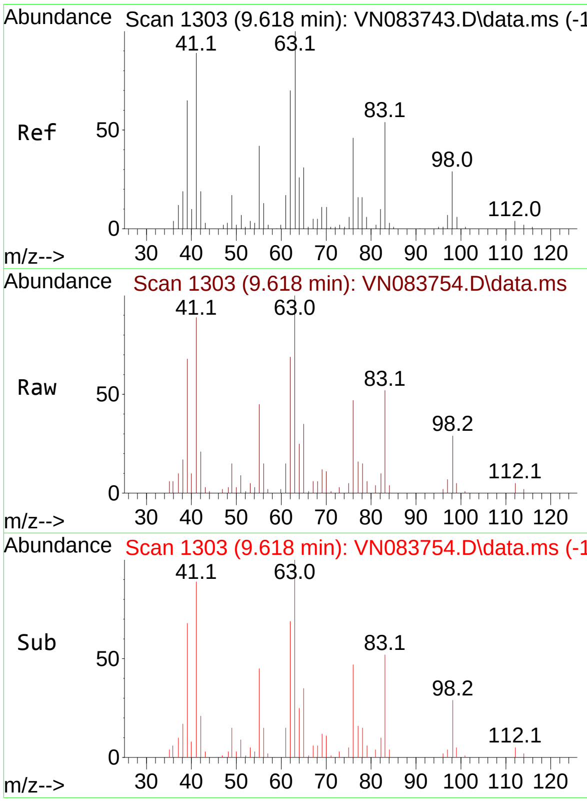
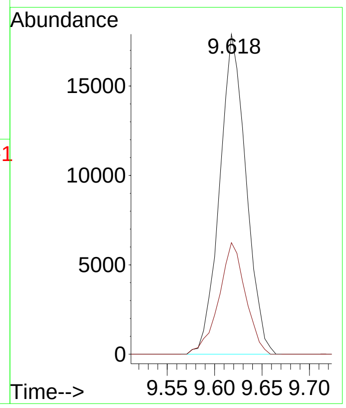
Supervised By :Semsettin Yesilyurt 09/11/2024

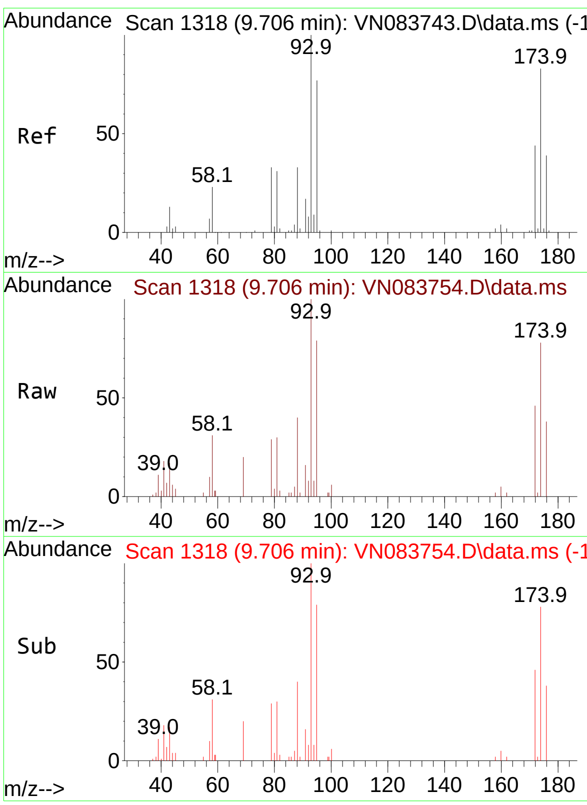


#45
1,2-Dichloropropane
Concen: 18.507 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 63 Resp: 3480

Ion	Ratio	Lower	Upper
63	100		
65	34.9	25.9	38.9

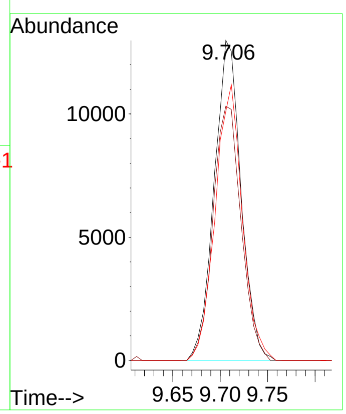




#46
Dibromomethane
Concen: 19.414 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 93 Resp: 25572

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.3	97.9
174	87.0	71.0	106.4



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

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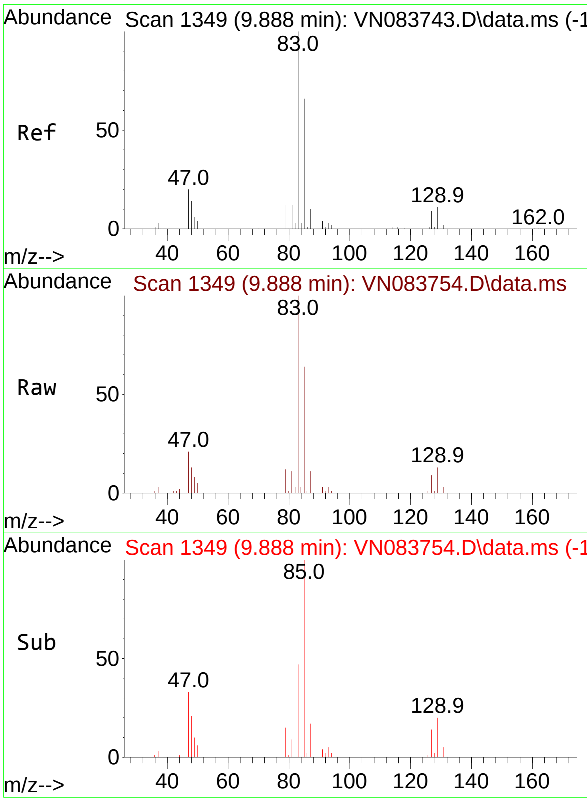
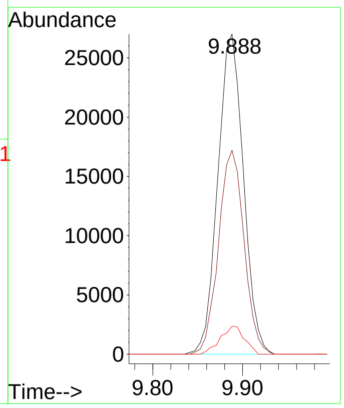
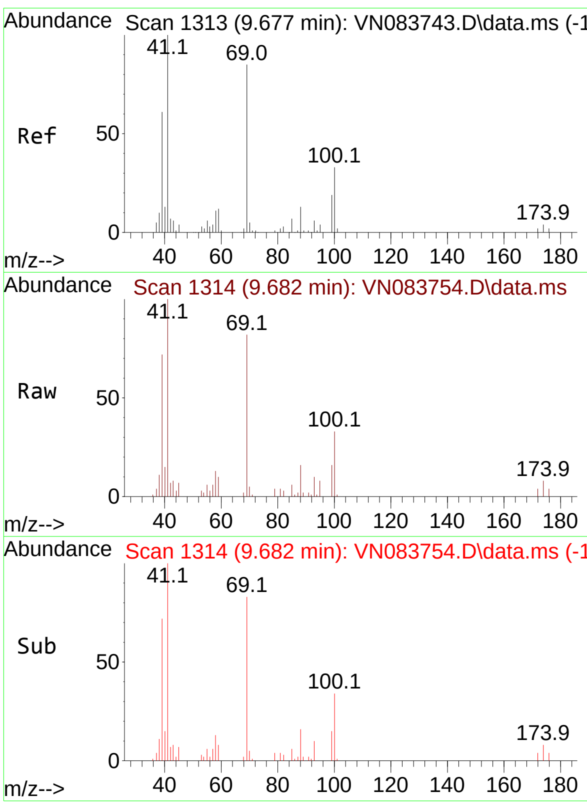



```
#47
Bromodichloromethane
Concen:   18.757 ug/l
RT:   9.888 min   Scan# 1
Delta R.T.   -0.000 min
Lab File:    VN083754.D
Acq: 10 Sep 2024   16:07

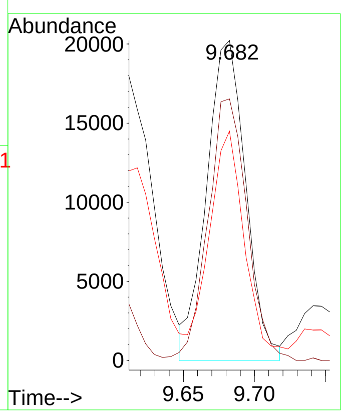
Tgt Ion: 83 Resp:    5347
Ion   Ratio   Lower   Upper
 83   100
 85    63.7    51.8    77.8
127     8.7     6.6     9.8
```

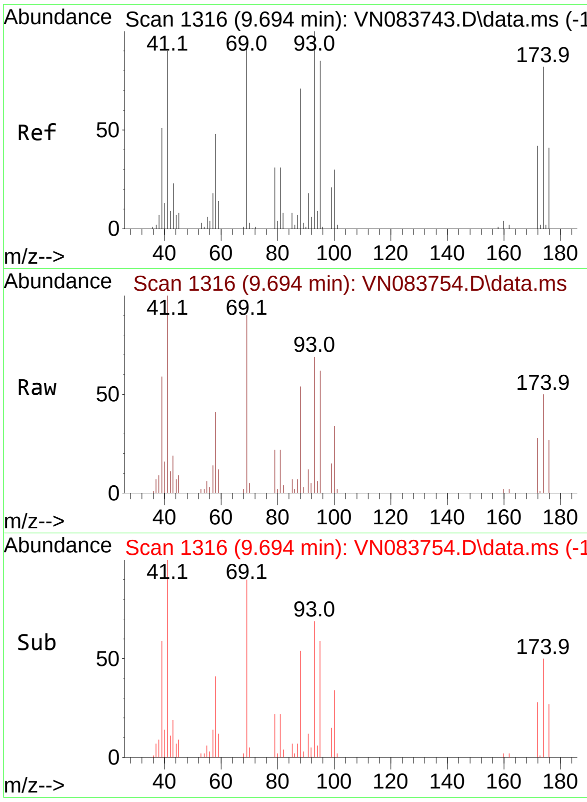





```
#48
Methyl methacrylate
Concen:   19.176 ug/l
RT:   9.682 min   Scan# 1314
Delta R.T.   0.006 min
Lab File:    VN083754.D
Acq: 10 Sep 2024   16:07

Tgt Ion: 41 Resp:    38684
Ion   Ratio   Lower   Upper
 41   100
 69    81.7    64.3    96.5
 39    65.2    48.9    73.3
```

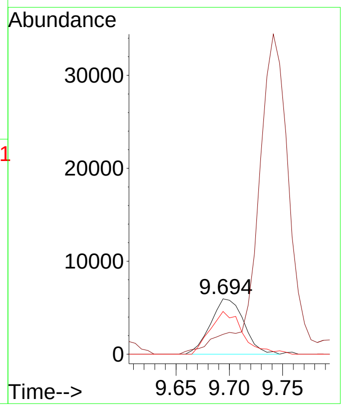




#49
1,4-Dioxane
Concen: 390.637 ug/l
RT: 9.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 88 Resp: 1296

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	76.2	57.1	85.7



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations
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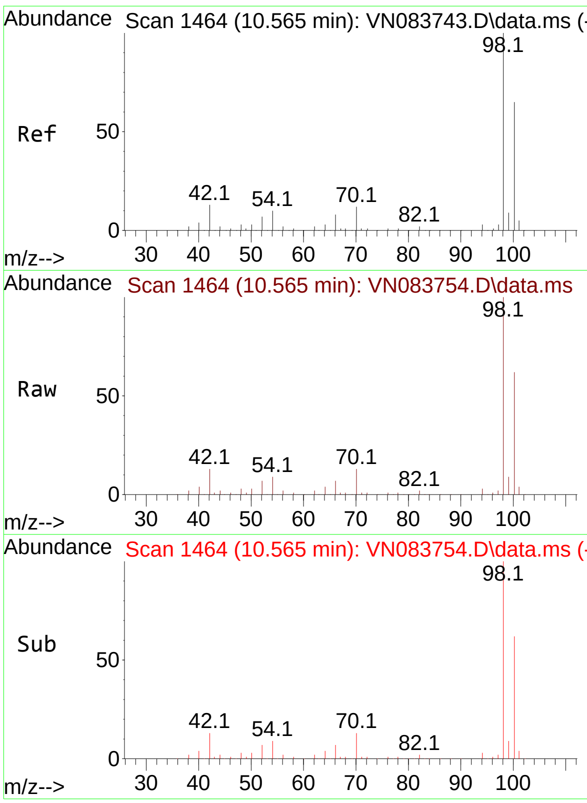
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

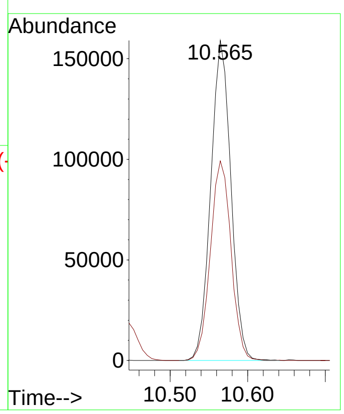
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

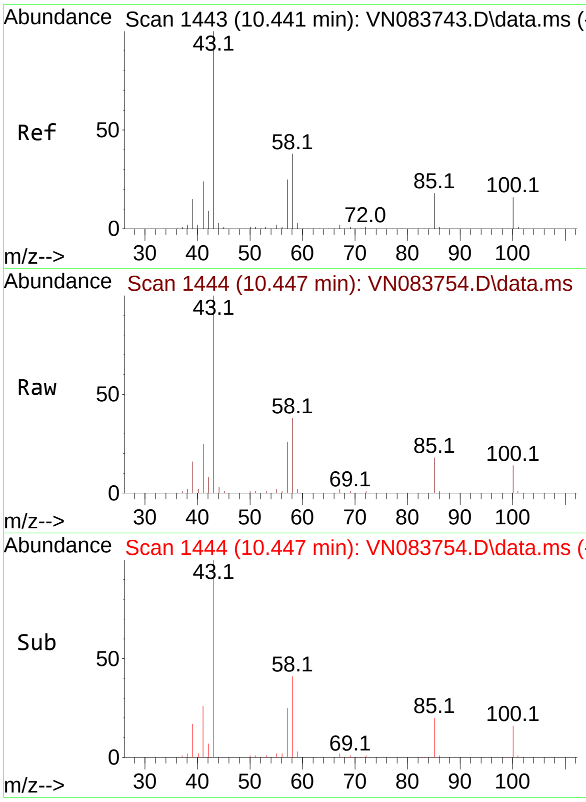


#50
Toluene-d8
Concen: 48.443 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 98 Resp: 287623

Ion	Ratio	Lower	Upper
98	100		
100	63.9	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 101.564 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 43 Resp: 23508

Ion	Ratio	Lower	Upper
43	100		
58	38.3	31.6	47.4

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

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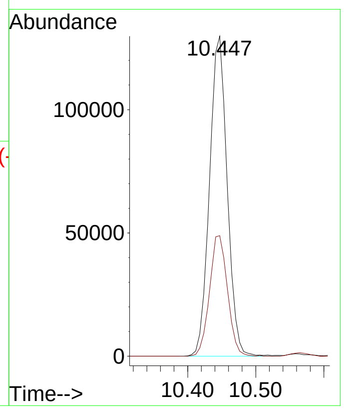
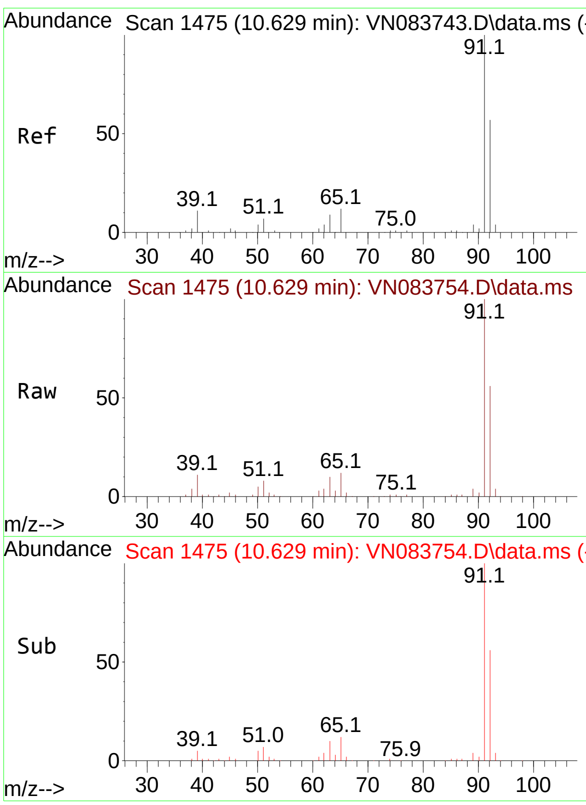
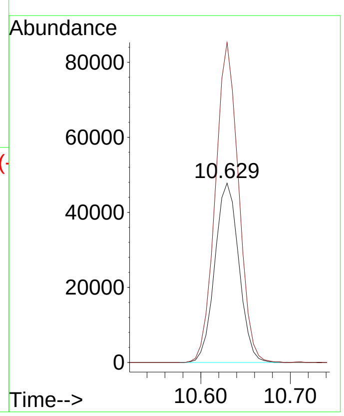




#52
Toluene
Concen: 18.716 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 92 Resp: 89075

Ion	Ratio	Lower	Upper
92	100		
91	172.1	134.7	202.1



Instrument :
MSVOA_N
ClientSampleId :
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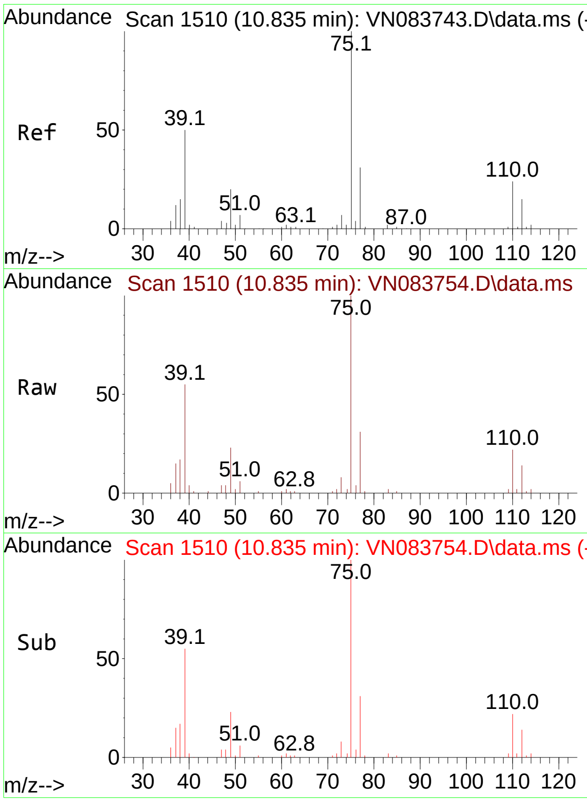
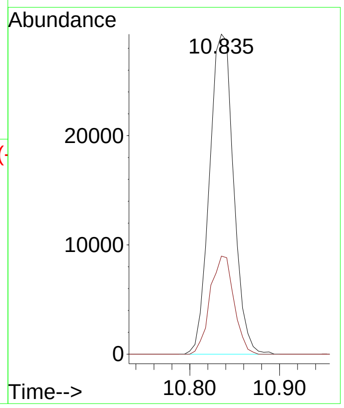
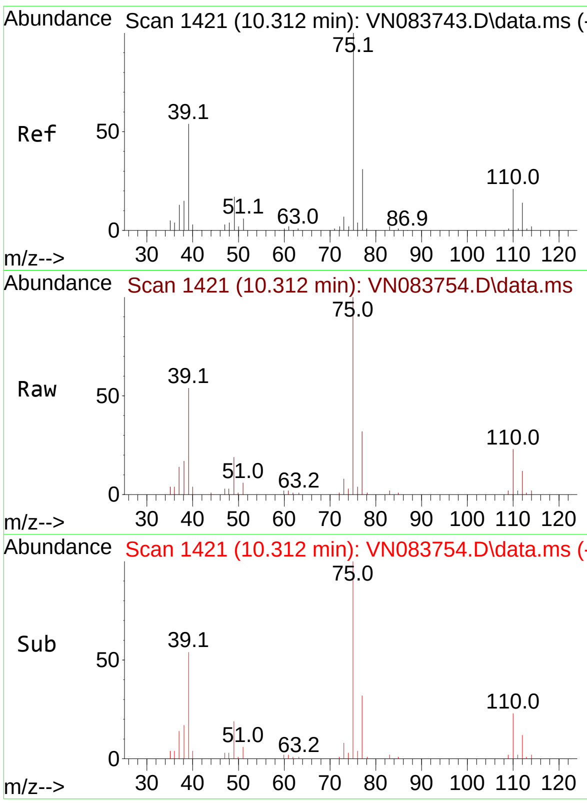


#53
t-1,3-Dichloropropene
Concen: 18.919 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 75 Resp: 5466

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.8	38.6

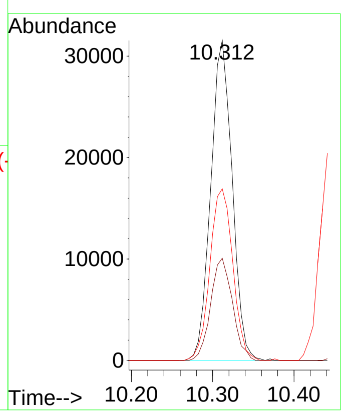




#54
cis-1,3-Dichloropropene
Concen: 19.062 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 75 Resp: 57857

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.6
39	53.6	42.6	64.0



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

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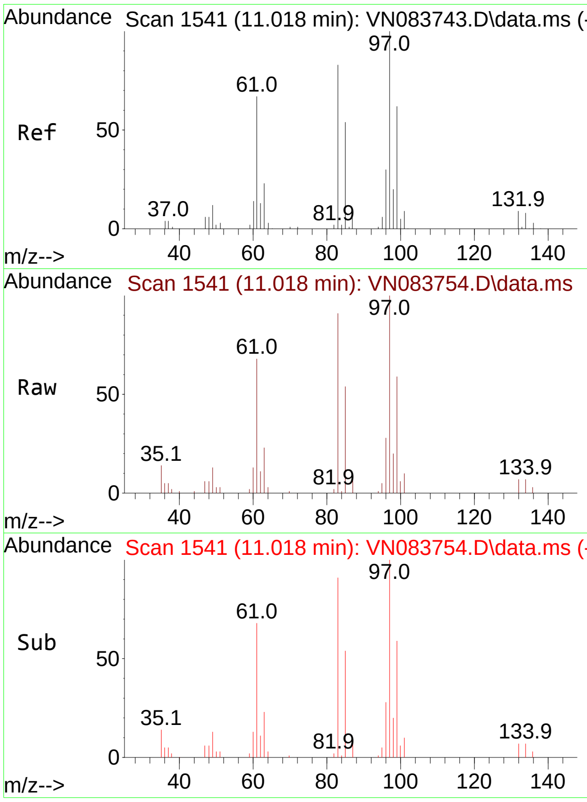
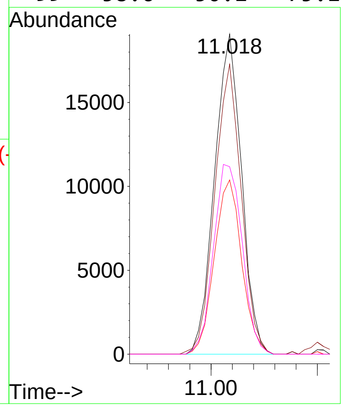
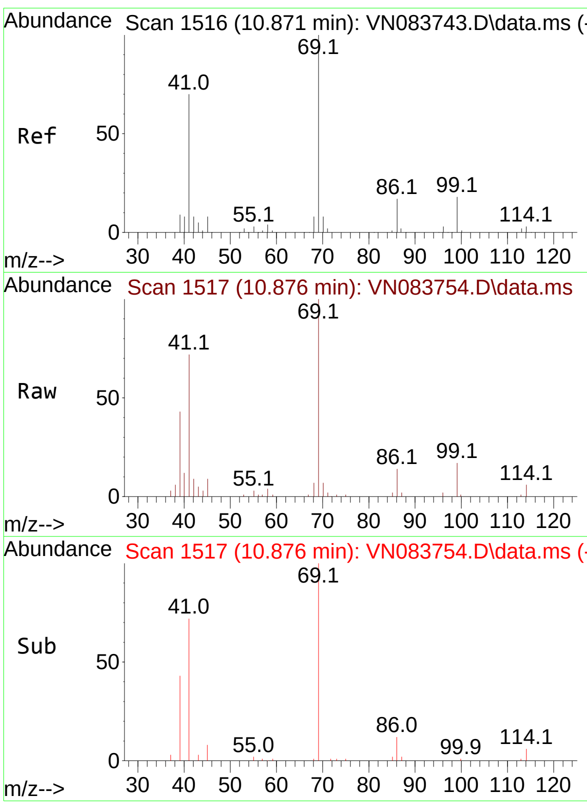


#55
1,1,2-Trichloroethane
Concen: 18.962 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 97 Resp: 3369

Ion	Ratio	Lower	Upper
97	100		
83	90.6	67.5	101.3
85	54.5	44.2	66.2
99	58.6	50.1	75.1

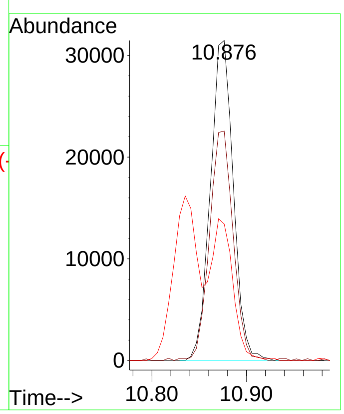


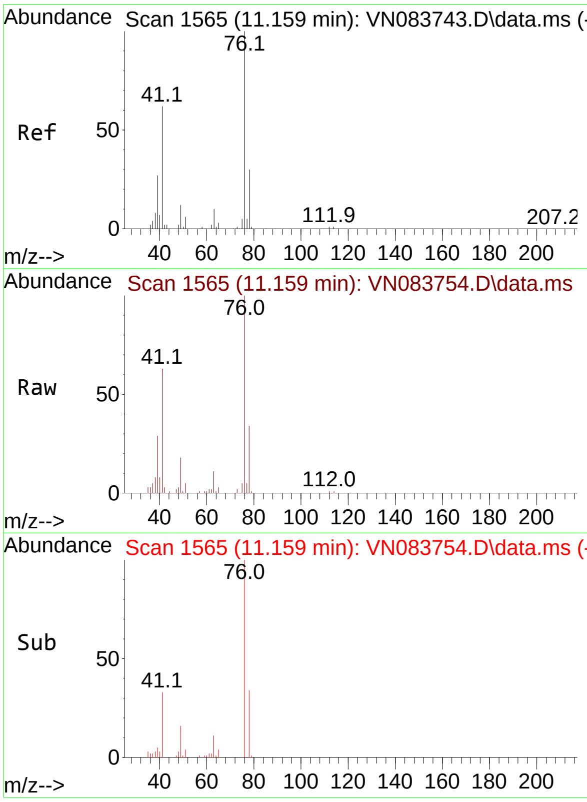


#56
Ethyl methacrylate
Concen: 19.465 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 69 Resp: 53210

Ion	Ratio	Lower	Upper
69	100		
41	73.9	53.9	80.9
39	44.0	32.6	48.8





#57
1,3-Dichloropropane
Concen: 19.425 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 76 Resp: 59311

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.6

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
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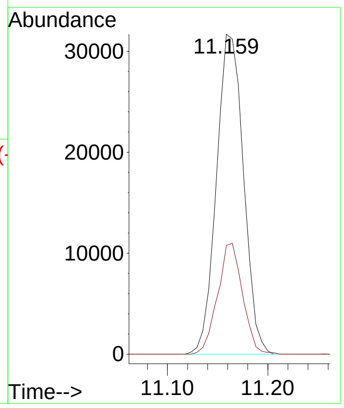

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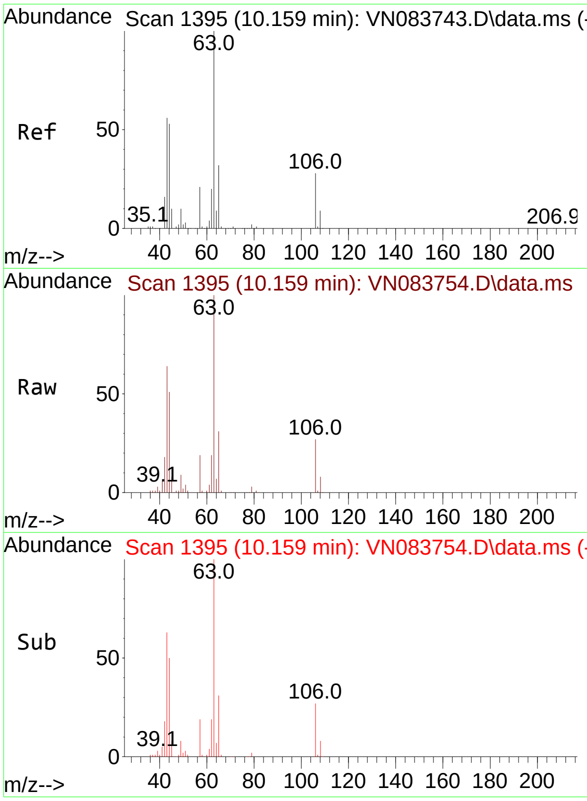
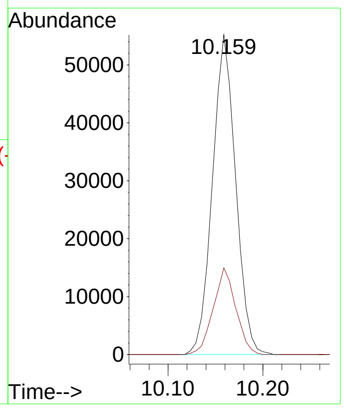
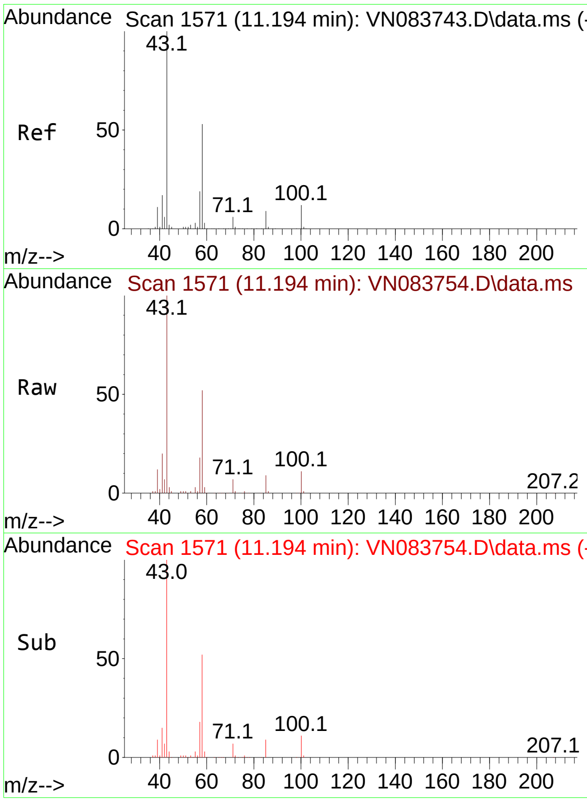


#58
2-Chloroethyl Vinyl ether
Concen: 95.203 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 63 Resp: 93773

Ion	Ratio	Lower	Upper
63	100		
106	26.4	23.3	34.9

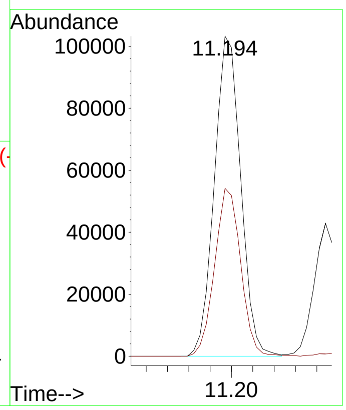




#59
2-Hexanone
Concen: 103.438 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 43 Resp: 17710

Ion	Ratio	Lower	Upper
43	100		
58	51.7	27.2	81.5



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

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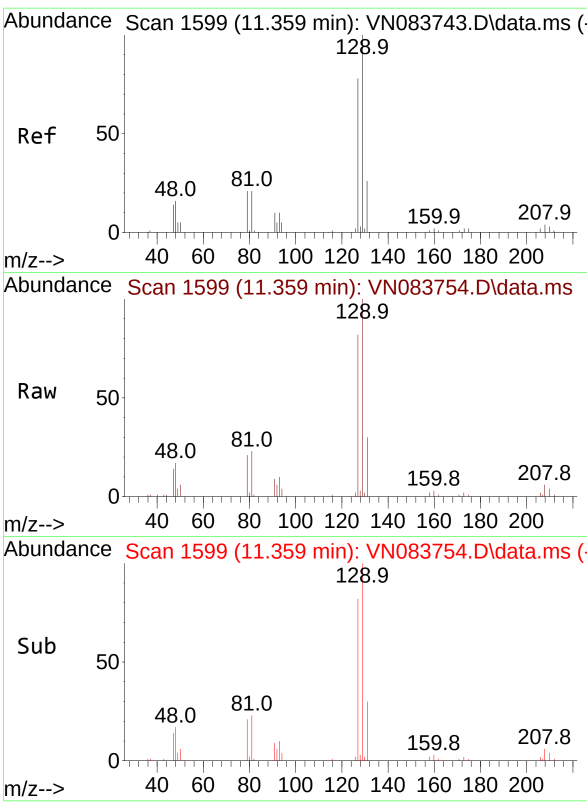
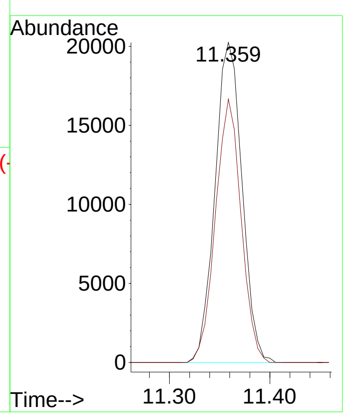


#60
Dibromochloromethane
Concen: 19.092 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:129 Resp: 37963

Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.0	116.9



Instrument :
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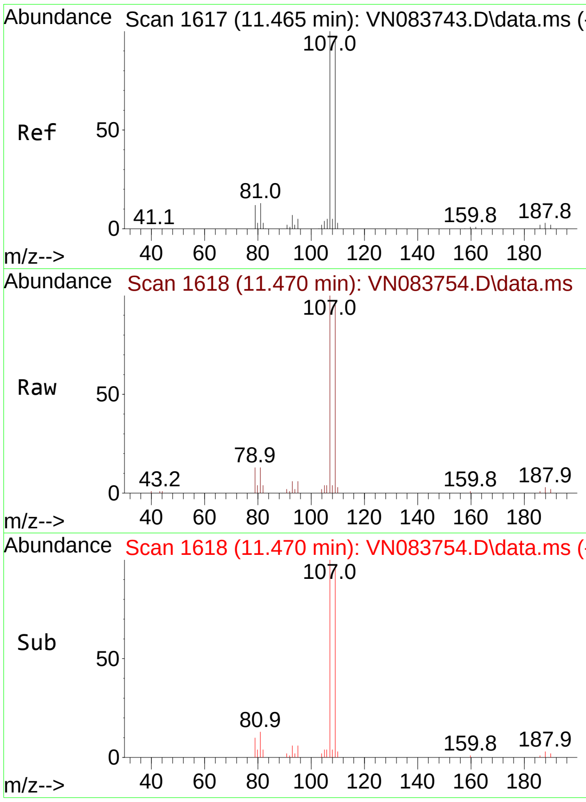
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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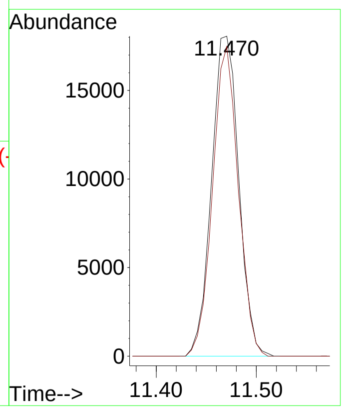
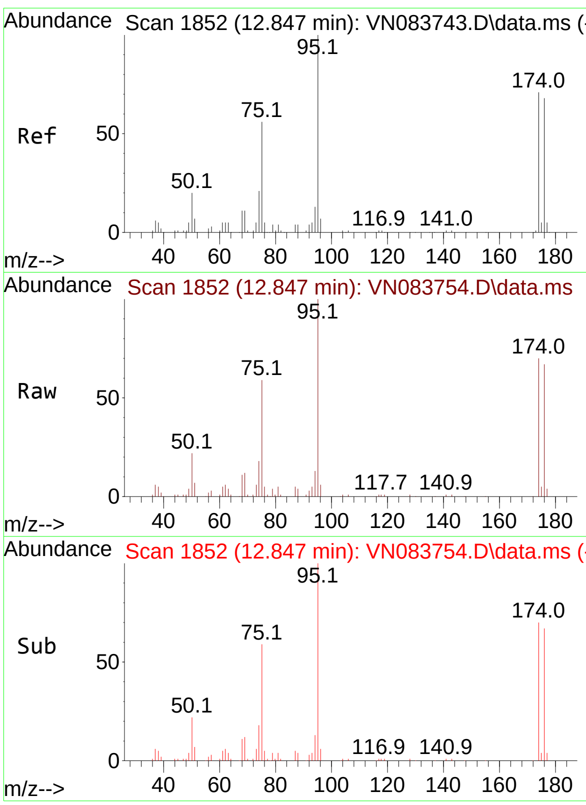
#61
1,2-Dibromoethane
Concen:   19.267 ug/l
RT:  11.470 min  Scan# 1(
Delta R.T.  0.006 min
Lab File:   VN083754.D
Acq: 10 Sep 2024  16:07

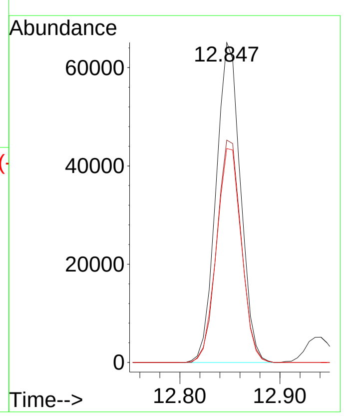
Tgt Ion:107 Resp:   3414
Ion  Ratio  Lower  Upper
107  100
109   91.4   75.6  113.4
```

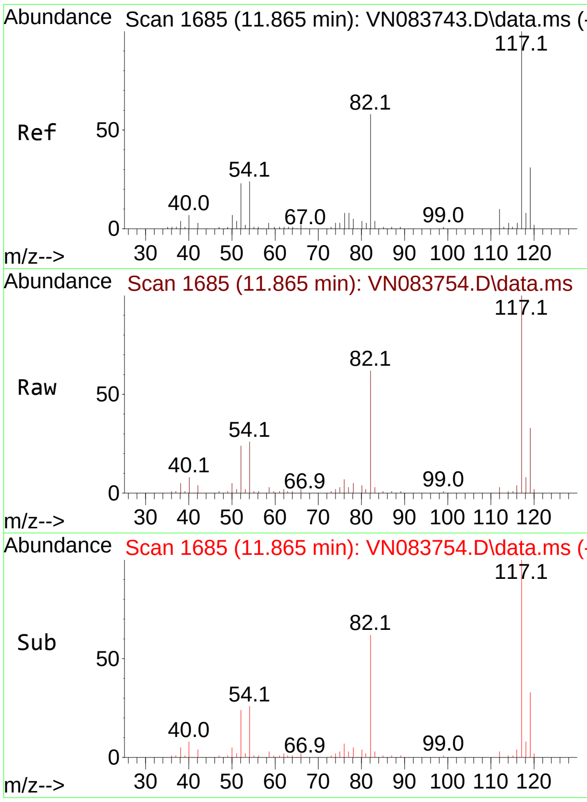





```
#62
4-Bromofluorobenzene
Concen:   45.080 ug/l
RT:  12.847 min  Scan# 1852
Delta R.T.  -0.000 min
Lab File:   VN083754.D
Acq: 10 Sep 2024  16:07

Tgt Ion: 95 Resp:  110429
Ion  Ratio  Lower  Upper
 95  100
174   69.6    0.0  139.8
176   68.2    0.0  131.4
```

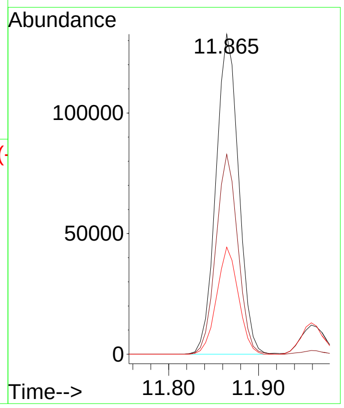




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:117 Resp: 233025

Ion	Ratio	Lower	Upper
117	100		
82	62.5	47.4	71.0
119	33.5	26.3	39.5



Instrument :
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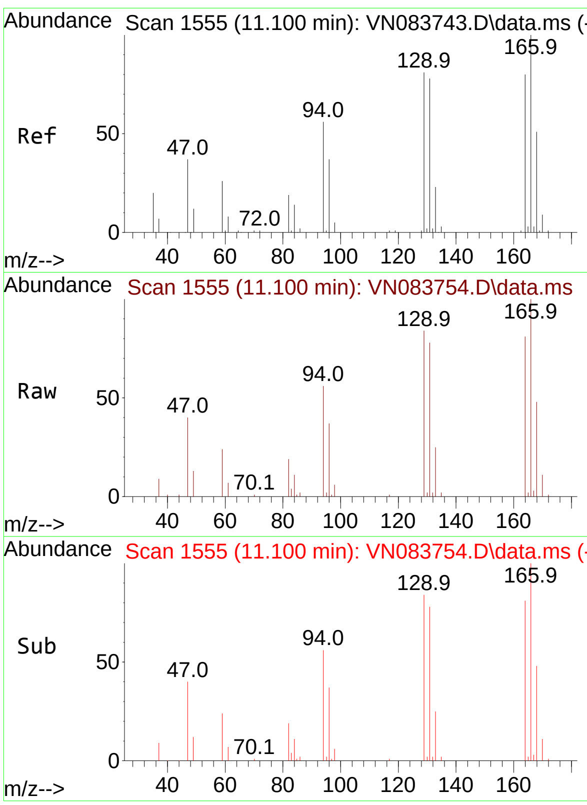
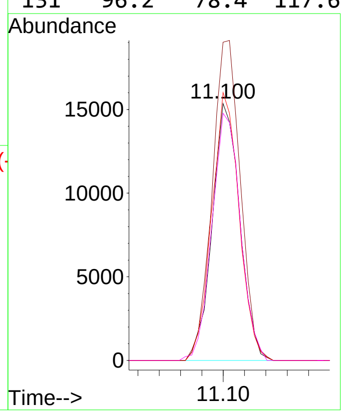
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

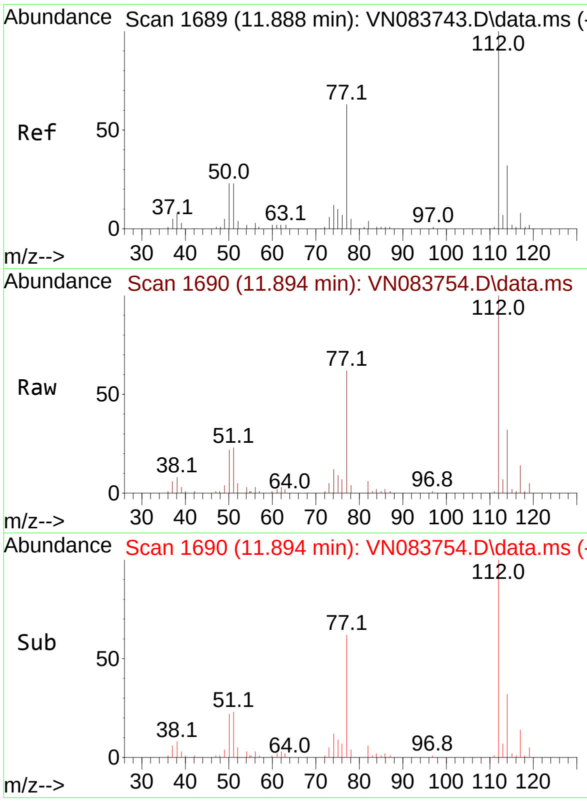


#64
Tetrachloroethene
Concen: 17.786 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:164 Resp: 27563

Ion	Ratio	Lower	Upper
164	100		
166	123.9	103.7	155.5
129	104.3	79.9	119.9
131	96.2	78.4	117.6





#65
Chlorobenzene
Concen: 18.347 ug/l
RT: 11.894 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:112 Resp: 9501(

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.7	38.5

Instrument :
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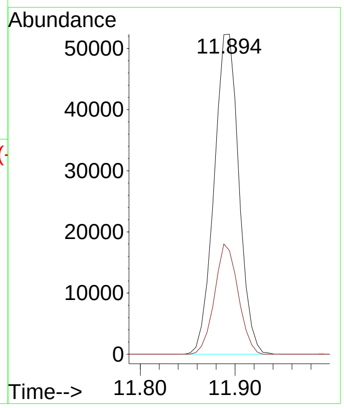
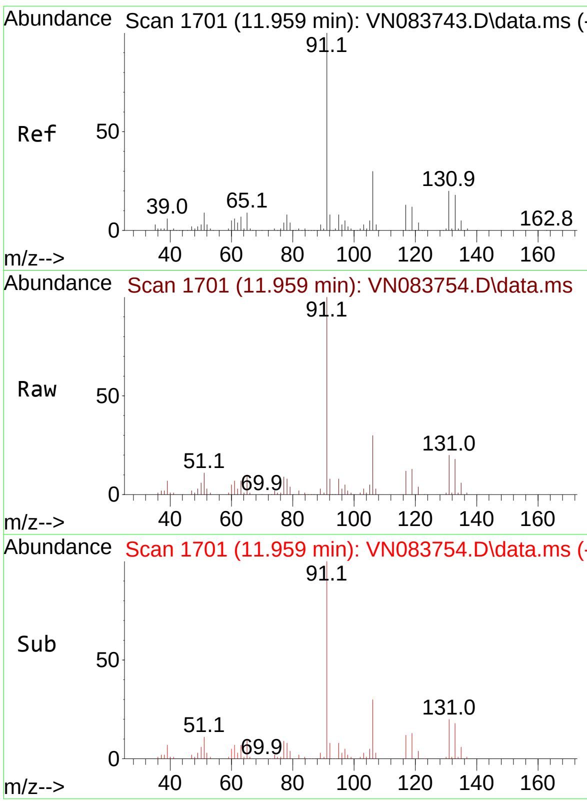
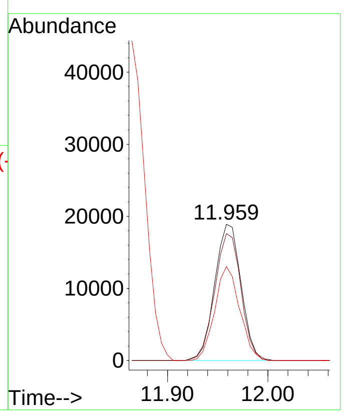




#66
1,1,1,2-Tetrachloroethane
Concen: 19.110 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:131 Resp: 34311

Ion	Ratio	Lower	Upper
131	100		
133	93.4	47.5	142.6
119	65.5	31.6	94.8



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

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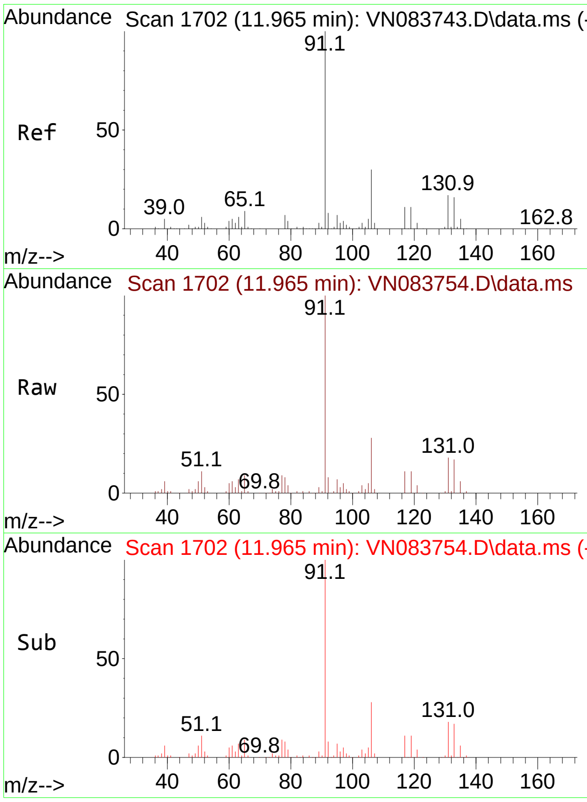
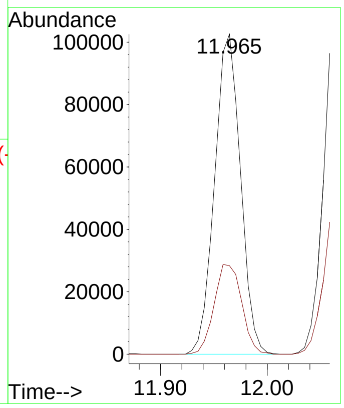
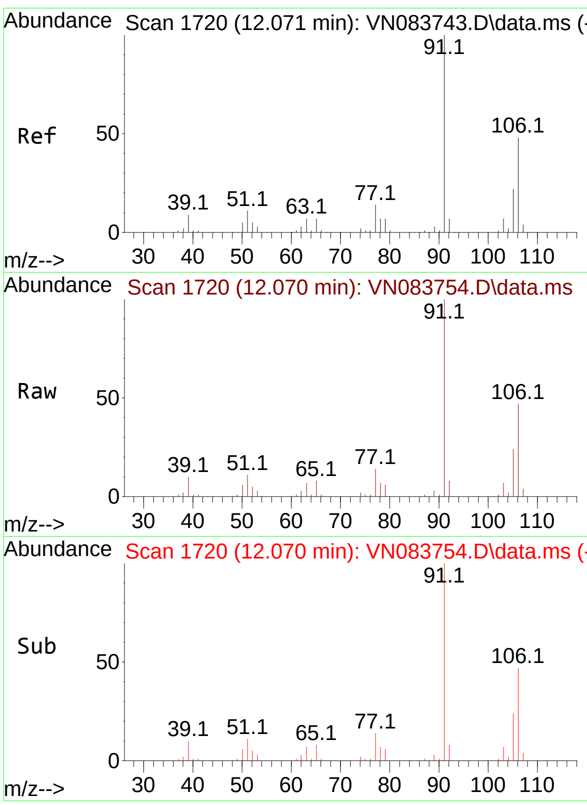


#67
Ethyl Benzene
Concen: 18.779 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 91 Resp: 17277

Ion	Ratio	Lower	Upper
91	100		
106	27.6	24.3	36.5

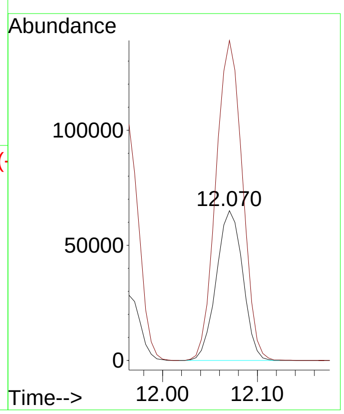




#68
m/p-Xylenes
Concen: 36.976 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:106 Resp: 126301

Ion	Ratio	Lower	Upper
106	100		
91	214.5	169.2	253.8



Instrument :
MSVOA_N
ClientSampleId :
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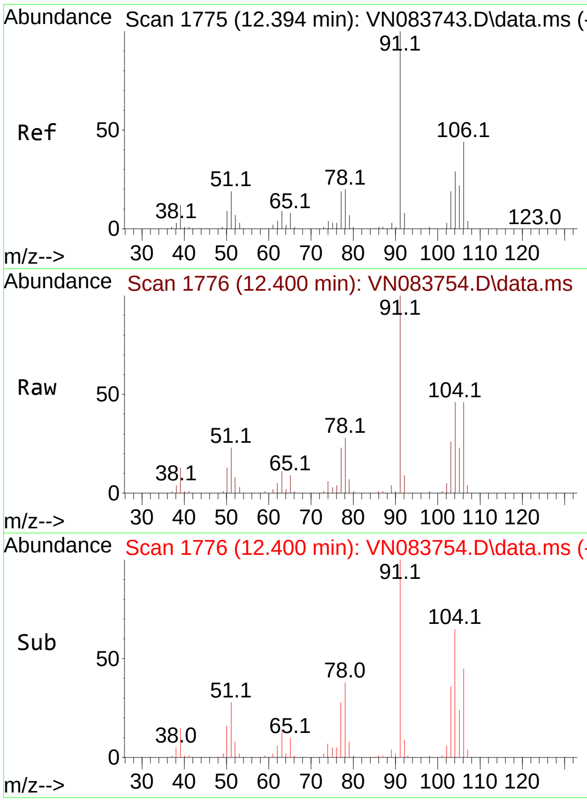
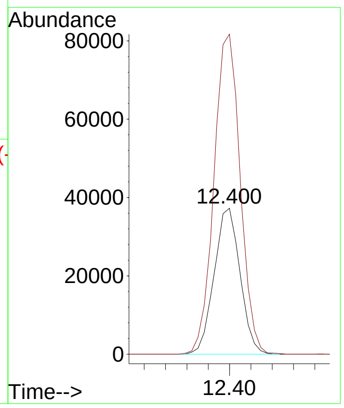
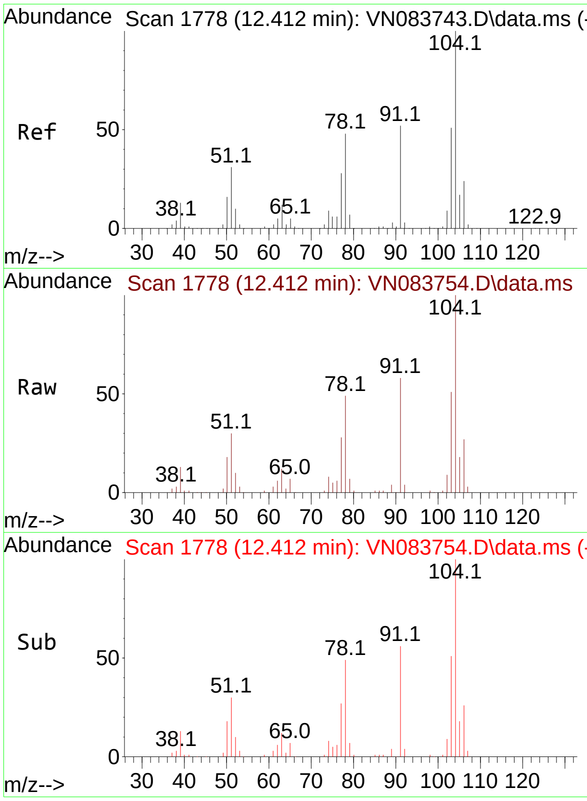



```
#69
o-Xylene
Concen:   18.977 ug/l
RT:  12.400 min  Scan# 1
Delta R.T.   0.006 min
Lab File:    VN083754.D
Acq: 10 Sep 2024  16:07

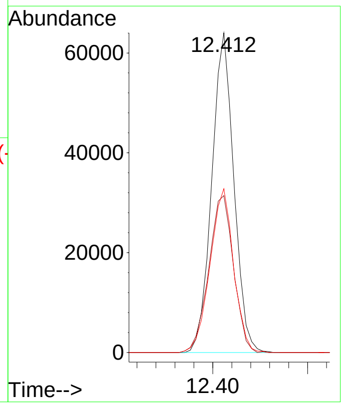
Tgt Ion:106 Resp:   6275
Ion  Ratio  Lower  Upper
106  100
 91  222.4  112.9  338.6
```






```
#70
Styrene
Concen:   19.046 ug/l
RT:  12.412 min  Scan# 1778
Delta R.T.  -0.000 min
Lab File:    VN083754.D
Acq: 10 Sep 2024  16:07

Tgt Ion:104 Resp:   103357
Ion  Ratio  Lower  Upper
104  100
 78   55.1   43.3   64.9
103   54.7   43.4   65.2
```



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

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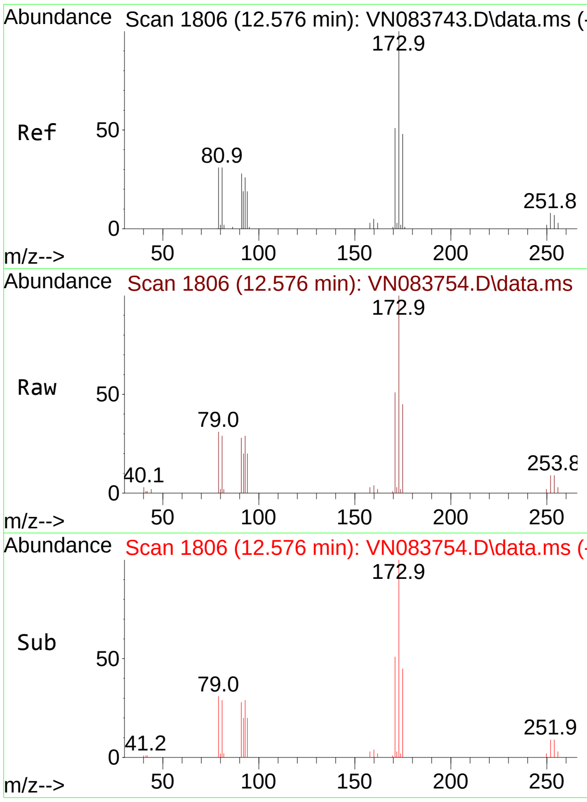
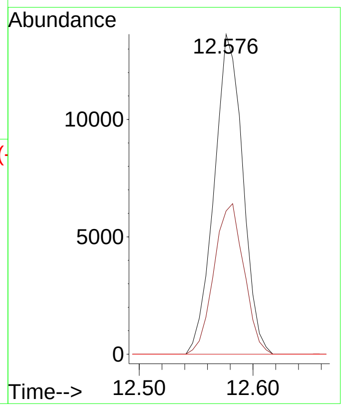
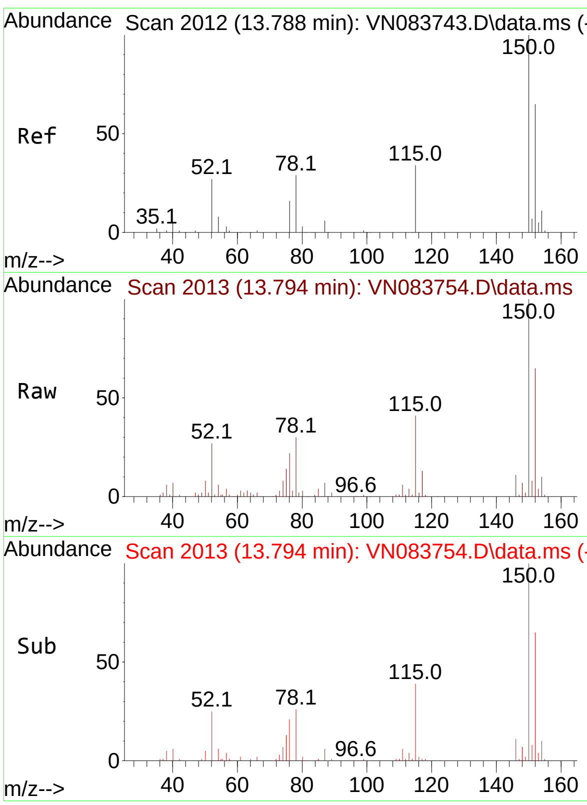


#71
Bromoform
Concen: 19.723 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:173 Resp: 2386

Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.1	72.2
254	0.0	0.0	0.0

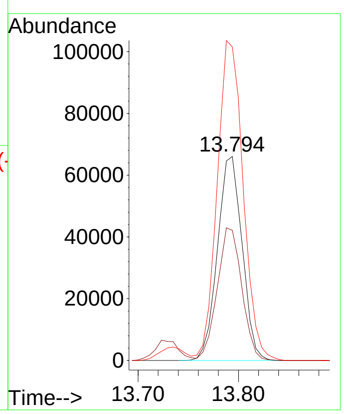




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:152 Resp: 112657

Ion	Ratio	Lower	Upper
152	100		
115	64.9	32.2	96.6
150	165.2	0.0	348.6



Instrument : MSVOA_N
ClientSampleId : VN0910WBSD01

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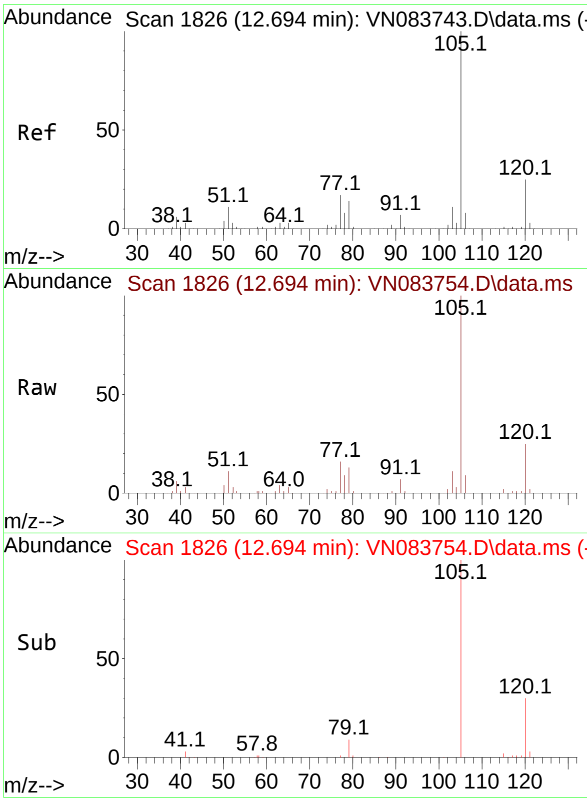


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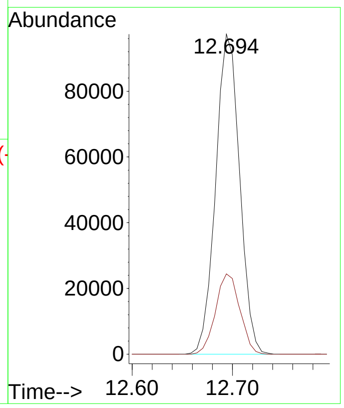
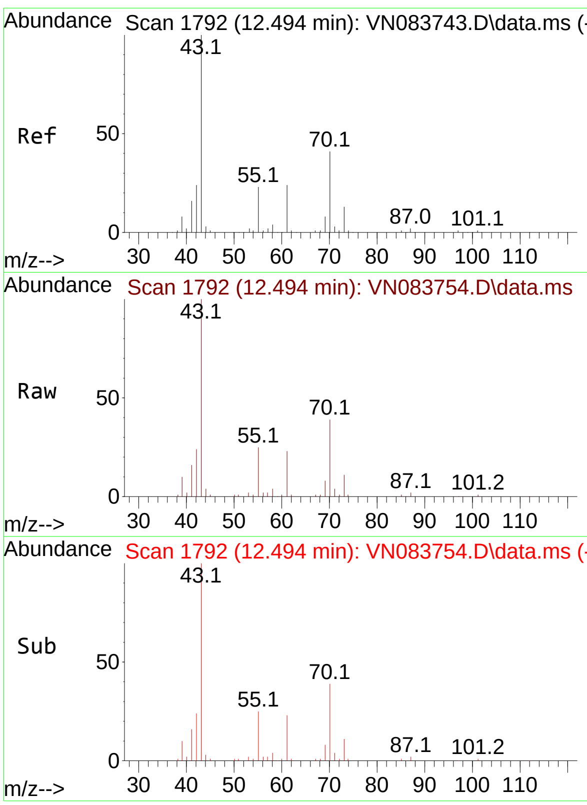
#73
Isopropylbenzene
Concen:   18.465 ug/l
RT:  12.694 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   VN083754.D
Acq: 10 Sep 2024  16:07

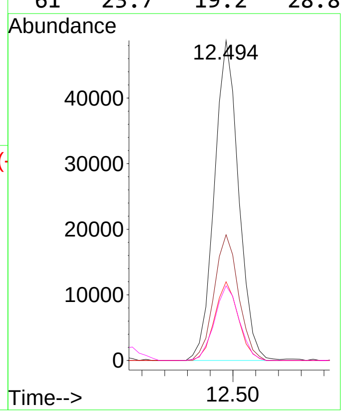
Tgt Ion:105 Resp:  16094
Ion  Ratio  Lower  Upper
105  100
120   25.4   12.6   37.8
```






```
#74
N-amyl acetate
Concen:   19.490 ug/l
RT:  12.494 min  Scan# 1792
Delta R.T.  -0.000 min
Lab File:   VN083754.D
Acq: 10 Sep 2024  16:07

Tgt Ion: 43 Resp:   72476
Ion  Ratio  Lower  Upper
 43  100
 70   39.6   34.5   51.7
 55   24.0   18.6   28.0
 61   23.7   19.2   28.8
```



Instrument :
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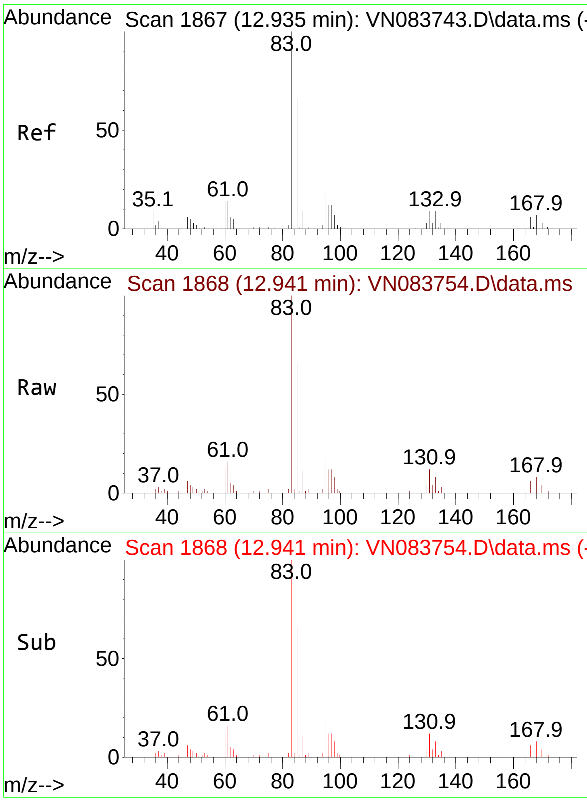
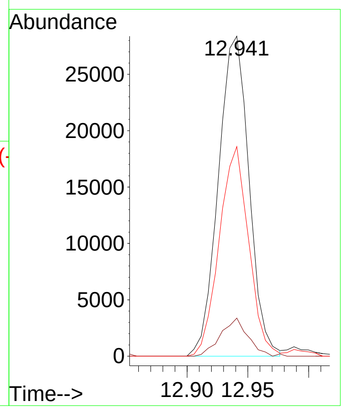
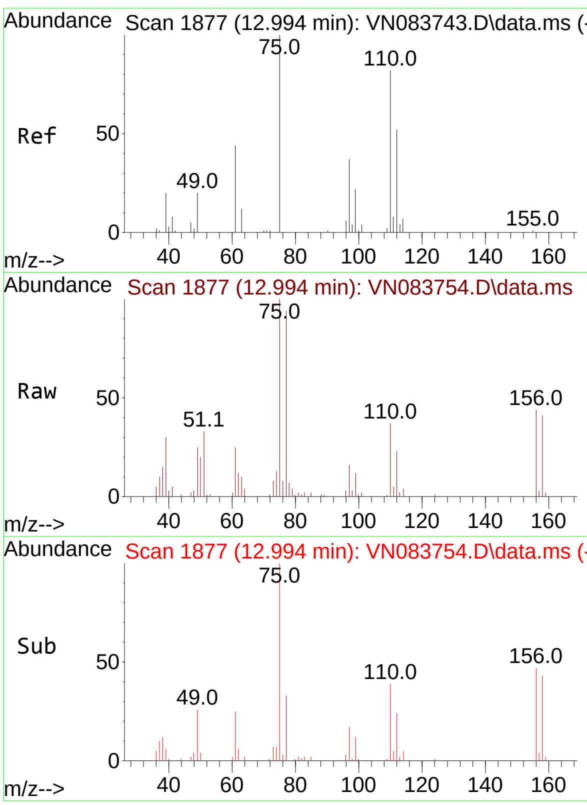


#75
1,1,2,2-Tetrachloroethane
Concen: 19.489 ug/l
RT: 12.941 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 83 Resp: 49910

Ion	Ratio	Lower	Upper
83	100		
131	10.7	5.2	15.6
85	62.7	31.9	95.9

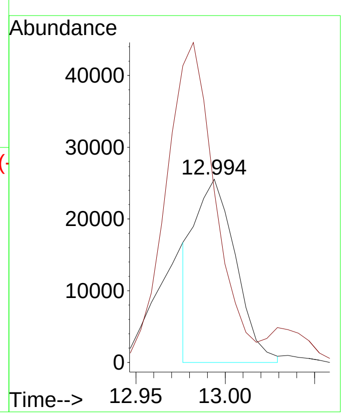




#76
1,2,3-Trichloropropane
Concen: 18.547 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 75 Resp: 41121

Ion	Ratio	Lower	Upper
75	100		
77	208.7	95.2	285.6



Instrument :
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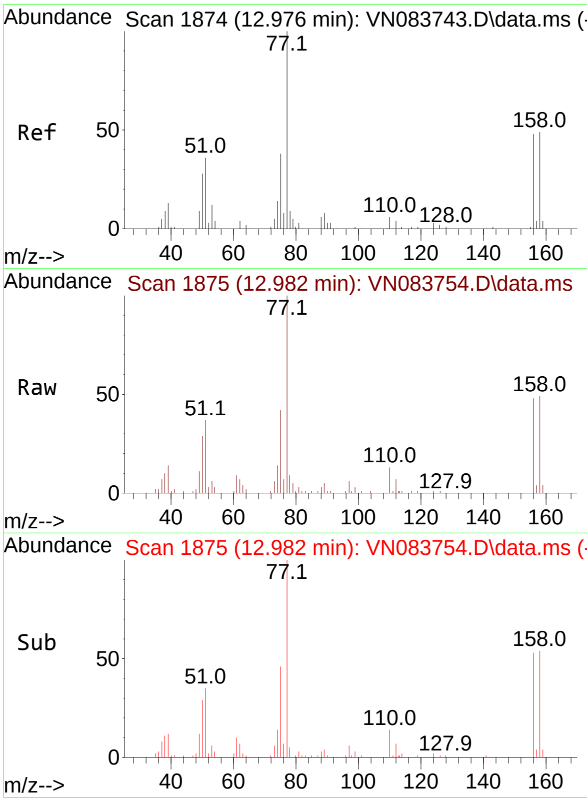
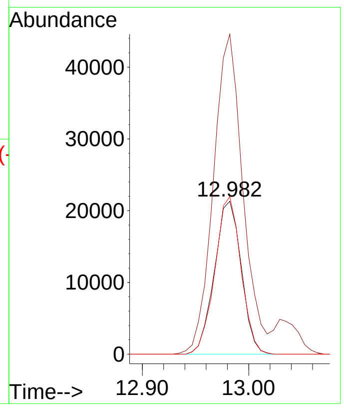
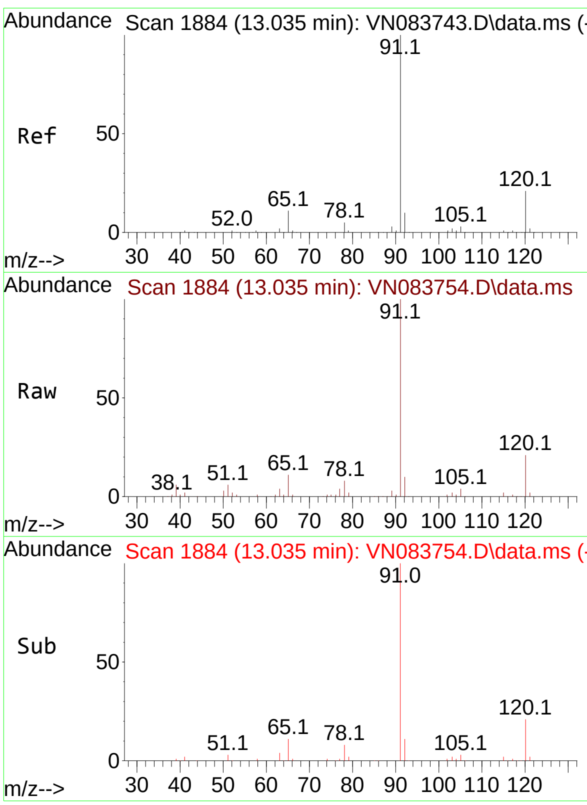


#77
Bromobenzene
Concen: 17.807 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:156 Resp: 3736

Ion	Ratio	Lower	Upper
156	100		
77	229.7	114.3	343.1
158	100.0	48.9	146.7

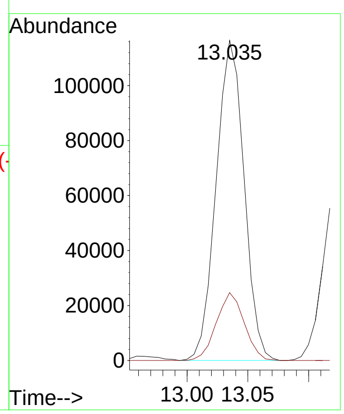


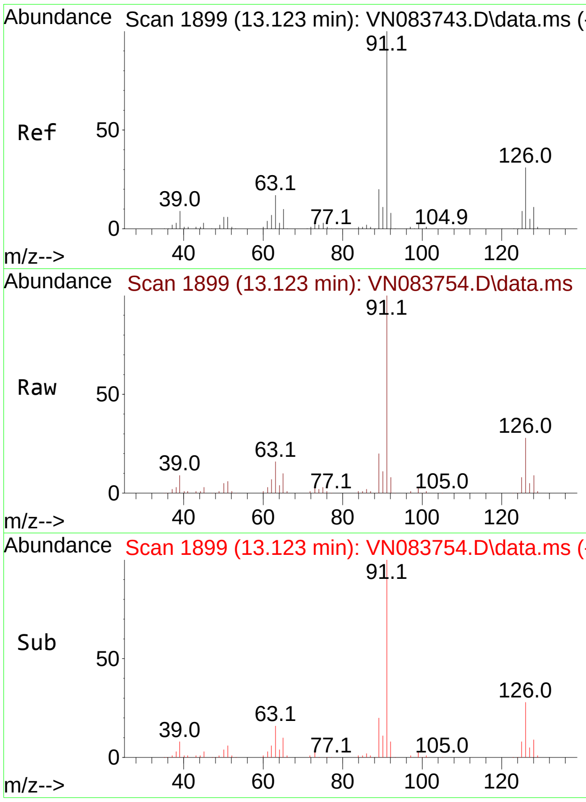


#78
n-propylbenzene
Concen: 18.384 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 91 Resp: 186432

Ion	Ratio	Lower	Upper
91	100		
120	21.1	11.0	33.0





#79
2-Chlorotoluene
Concen: 18.833 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 91 Resp: 12180

Ion	Ratio	Lower	Upper
91	100		
126	30.3	15.4	46.2

Instrument :
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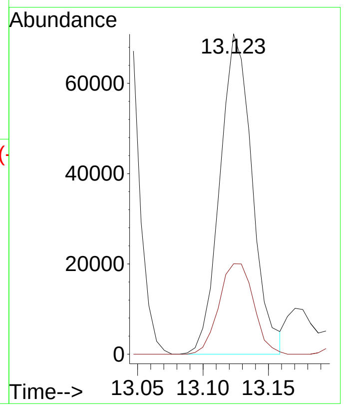
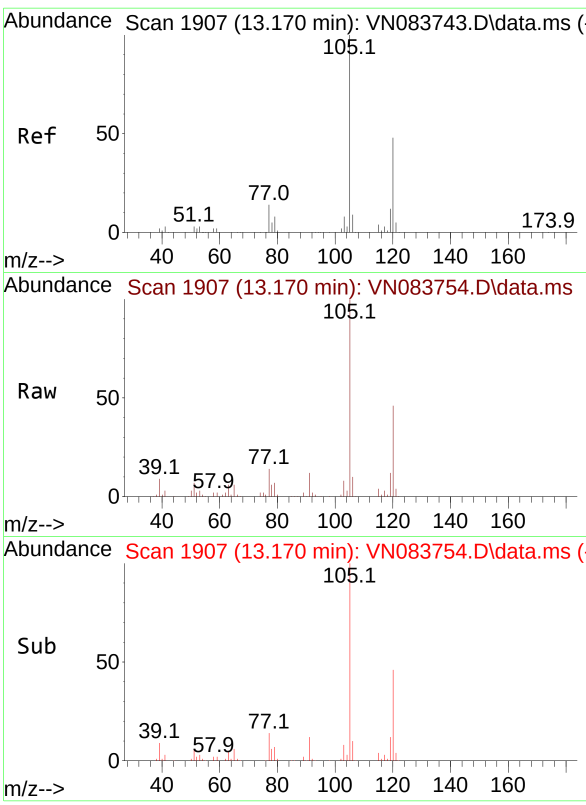
Supervised By :Semsettin Yesilyurt 09/11/2024

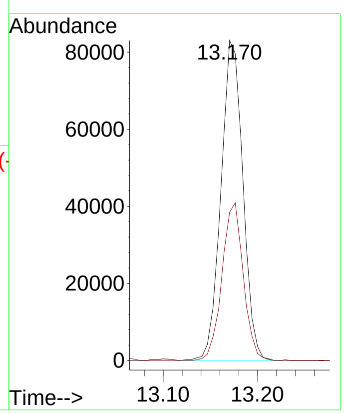




#80
1,3,5-Trimethylbenzene
Concen: 18.221 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:105 Resp: 133892

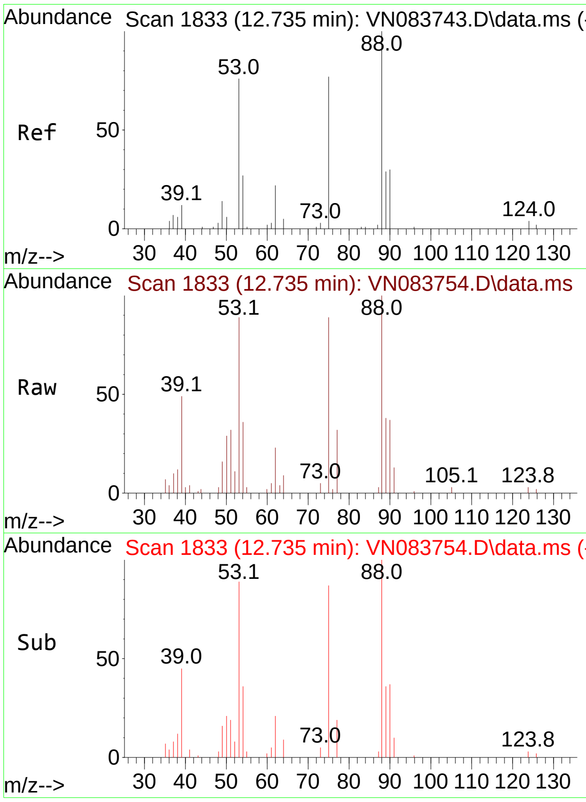
Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.4	70.3



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

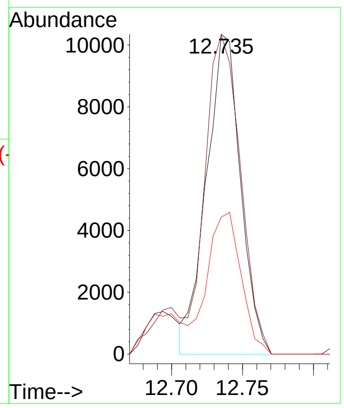
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

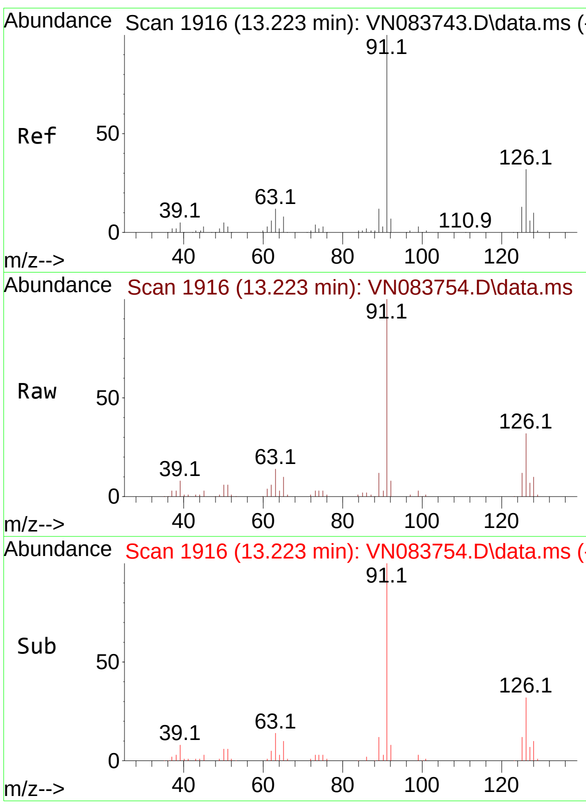


#81
trans-1,4-Dichloro-2-butene
Concen: 19.928 ug/l
RT: 12.735 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 75 Resp: 1729

Ion	Ratio	Lower	Upper
75	100		
53	104.8	81.2	121.8
89	43.8	35.7	53.5

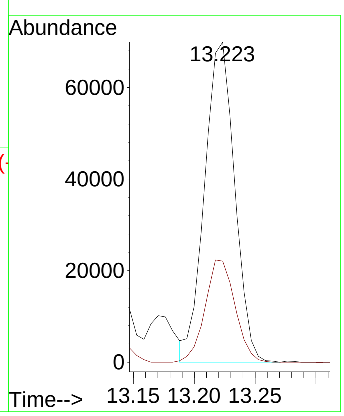




#82
4-Chlorotoluene
Concen: 18.559 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 91 Resp: 120449

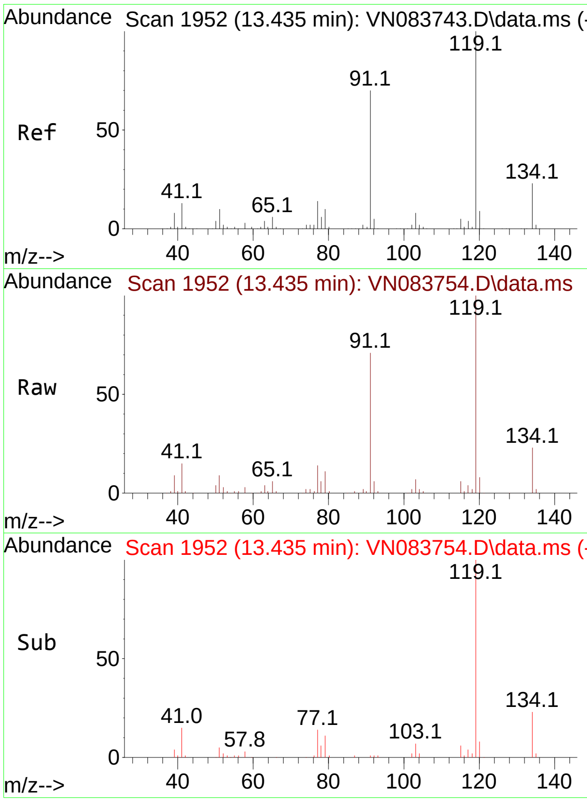
Ion	Ratio	Lower	Upper
91	100		
126	31.7	15.4	46.2



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

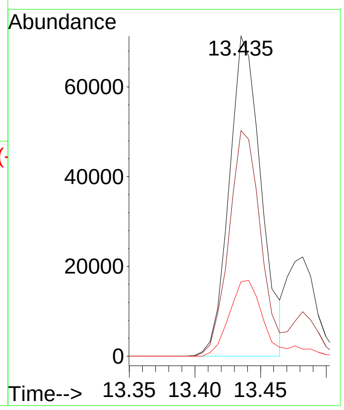
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

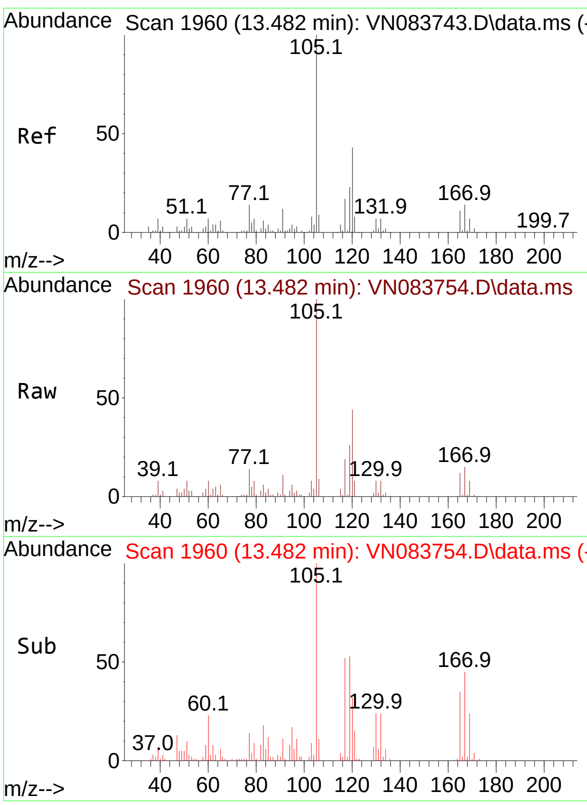


#83
tert-Butylbenzene
Concen: 18.720 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:119 Resp: 12035

Ion	Ratio	Lower	Upper
119	100		
91	70.2	34.5	103.6
134	24.5	12.8	38.4

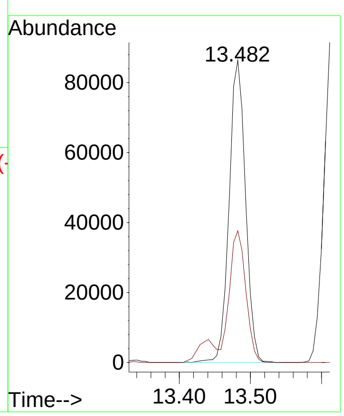




#84
1,2,4-Trimethylbenzene
Concen: 18.766 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:105 Resp: 138521

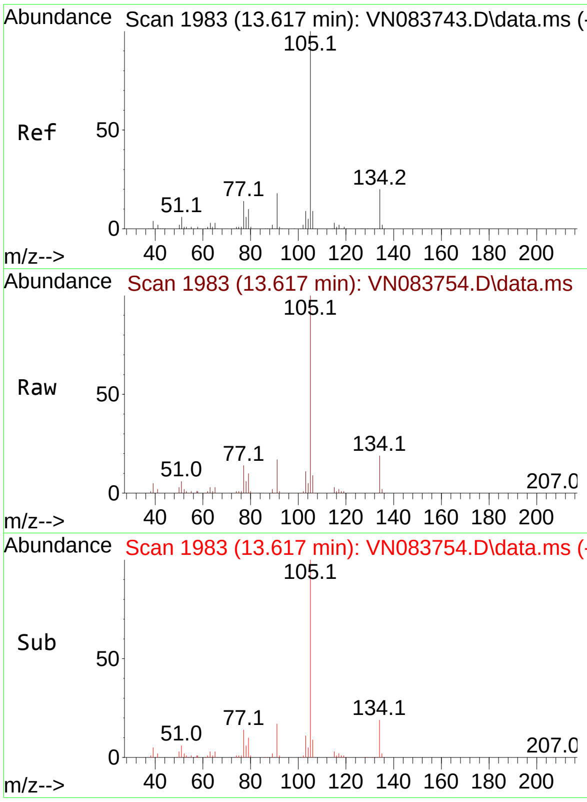
Ion	Ratio	Lower	Upper
105	100		
120	42.8	21.8	65.4



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

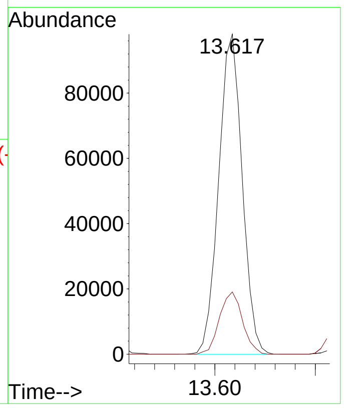
Manual Integrations APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

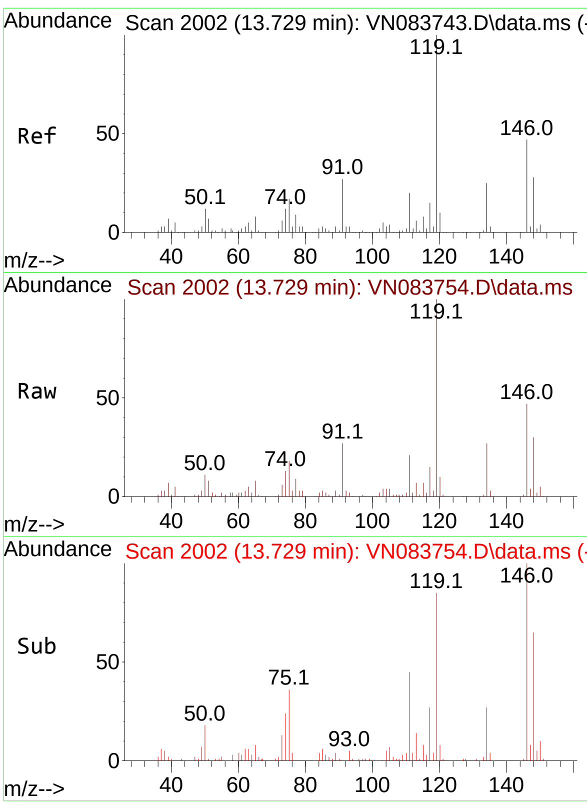


#85
sec-Butylbenzene
Concen: 18.628 ug/l
RT: 13.617 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:105 Resp: 15882

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.7	29.1

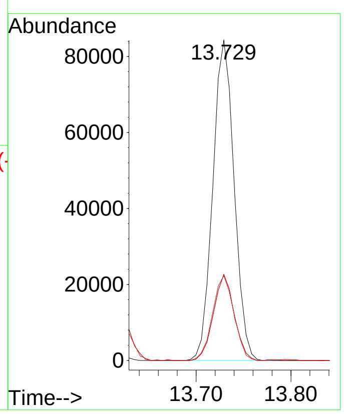


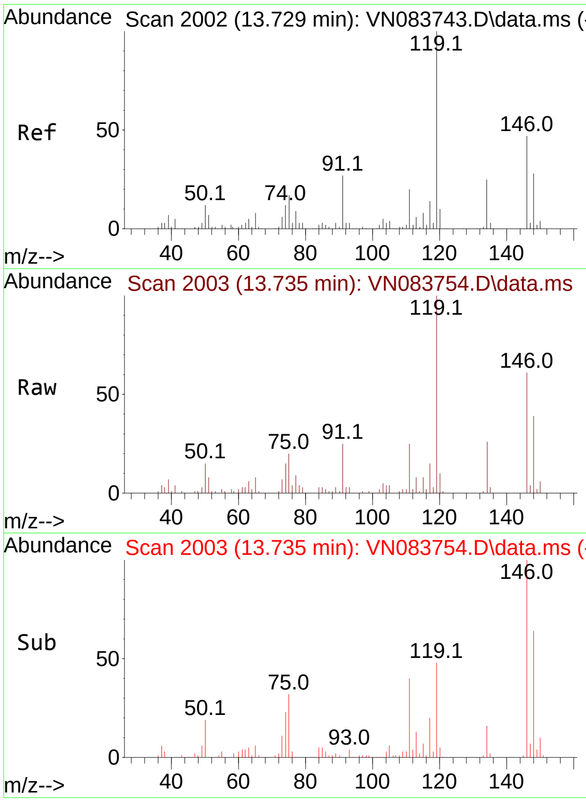


#86
p-Isopropyltoluene
Concen: 18.447 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:119 Resp: 131843

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.3
91	26.4	12.9	38.7





#87
1,3-Dichlorobenzene
Concen: 18.097 ug/l
RT: 13.735 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

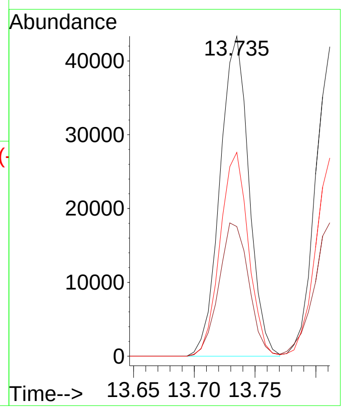
Tgt Ion:146 Resp: 7165

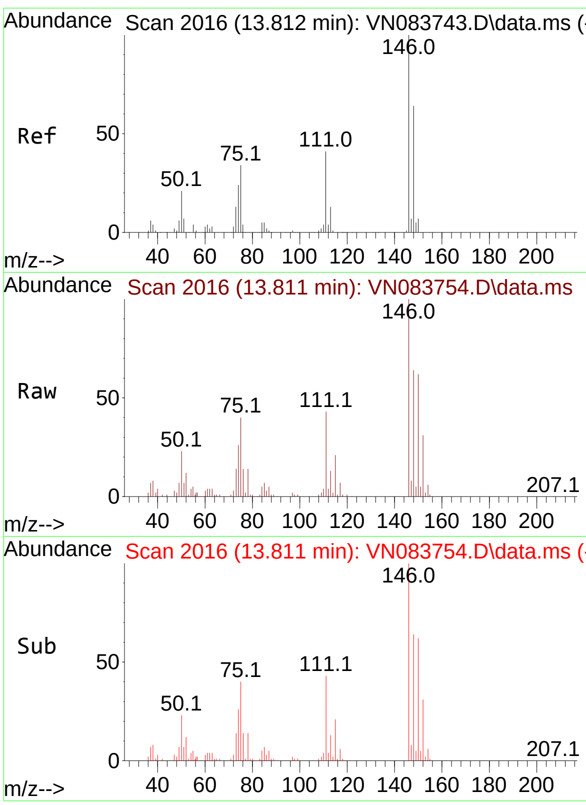
Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.7	65.1
148	62.7	31.7	95.1

Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

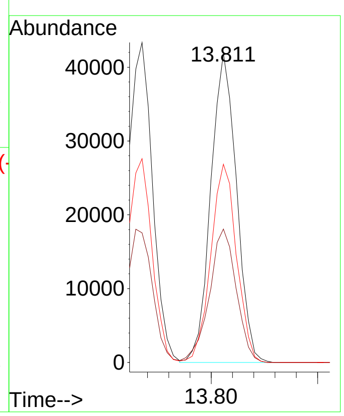




#88
1,4-Dichlorobenzene
Concen: 17.570 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:146 Resp: 70441

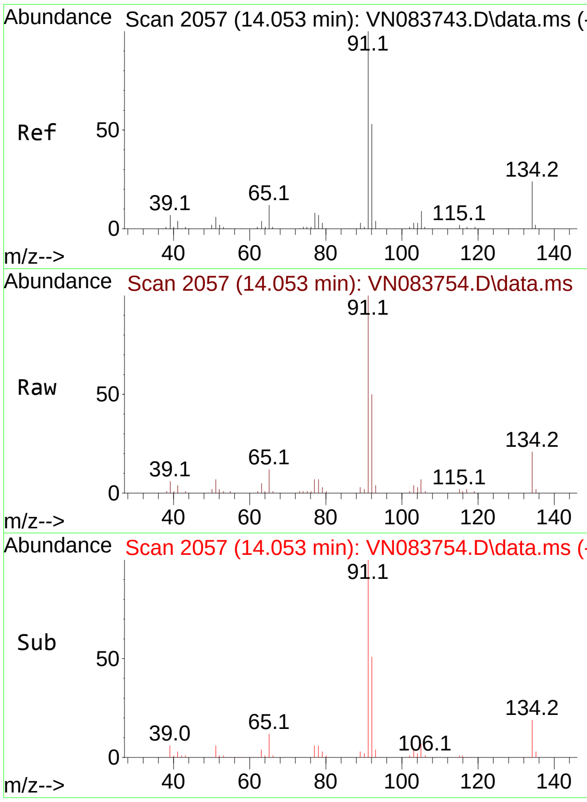
Ion	Ratio	Lower	Upper
146	100		
111	45.1	21.3	64.0
148	64.3	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

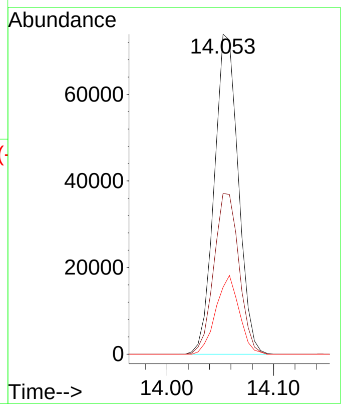
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

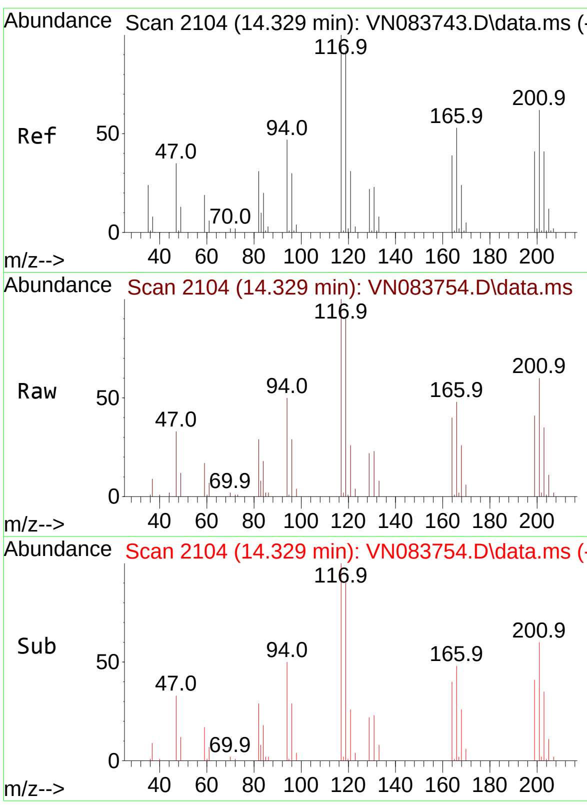


#89
n-Butylbenzene
Concen: 17.978 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion: 91 Resp: 11536

Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.7	80.1
134	23.9	12.2	36.4

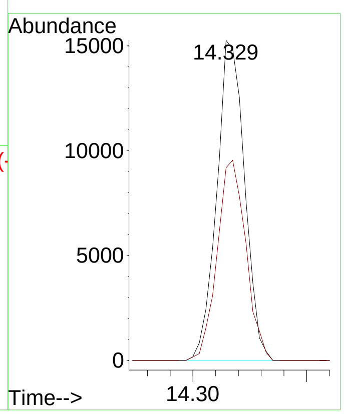




#90
Hexachloroethane
Concen: 18.136 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:117 Resp: 26057

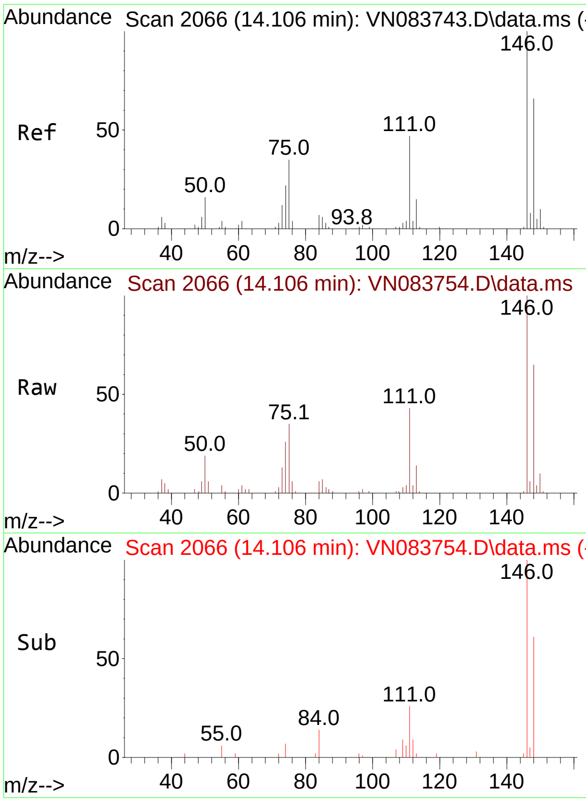
Ion	Ratio	Lower	Upper
117	100		
201	64.4	32.8	98.3



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

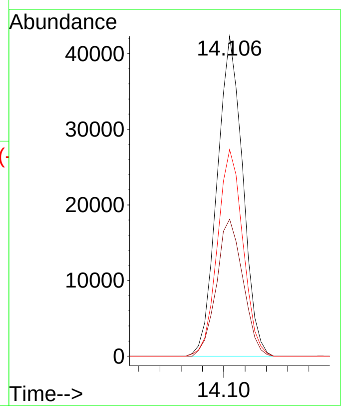
Manual Integrations APPROVED

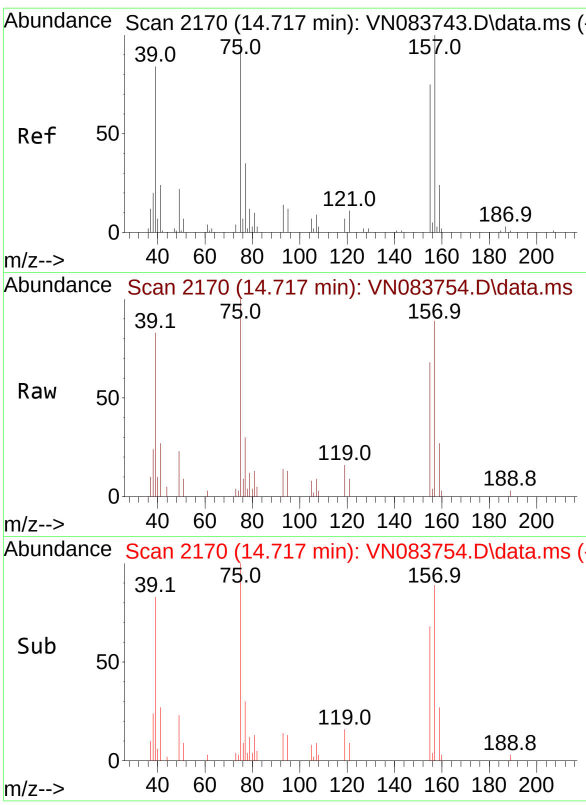
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024




```
#91
1,2-Dichlorobenzene
Concen:   18.524 ug/l
RT:  14.106 min  Scan# 2
Delta R.T.  -0.000 min
Lab File:   VN083754.D
Acq: 10 Sep 2024  16:07

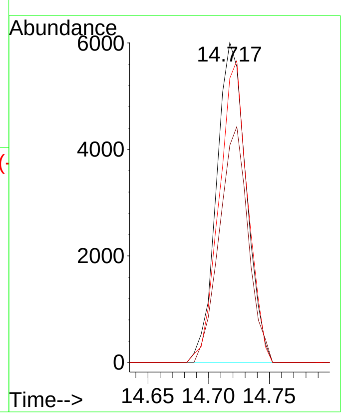
Tgt Ion:146 Resp:   7078
Ion  Ratio  Lower  Upper
146  100
111   44.1   22.8   68.3
148   64.2   32.1   96.5
```

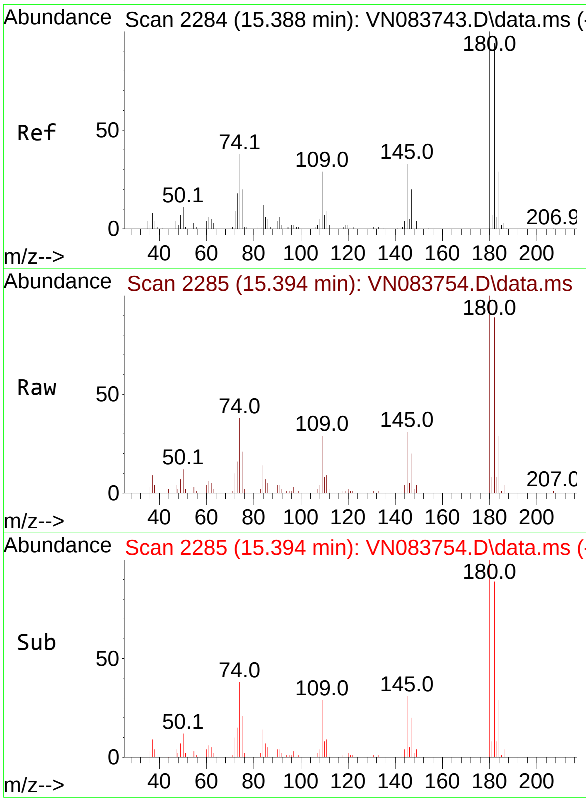





```
#92
1,2-Dibromo-3-Chloropropane
Concen:   20.037 ug/l
RT:  14.717 min  Scan# 2170
Delta R.T.  -0.000 min
Lab File:   VN083754.D
Acq: 10 Sep 2024  16:07

Tgt Ion: 75 Resp:   10229
Ion  Ratio  Lower  Upper
 75  100
155   71.8   35.9  107.7
157   90.6   47.5  142.5
```

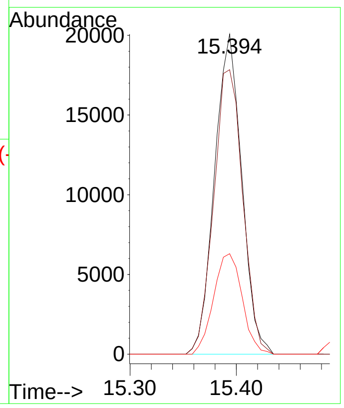




#93
1,2,4-Trichlorobenzene
Concen: 17.401 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

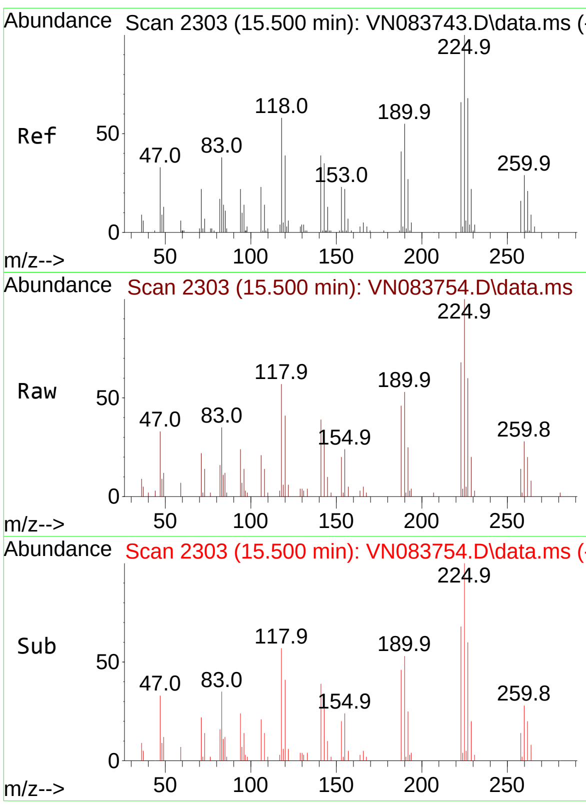
Tgt Ion:180 Resp: 3568

Ion	Ratio	Lower	Upper
180	100		
182	94.8	48.1	144.3
145	33.0	16.9	50.7



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

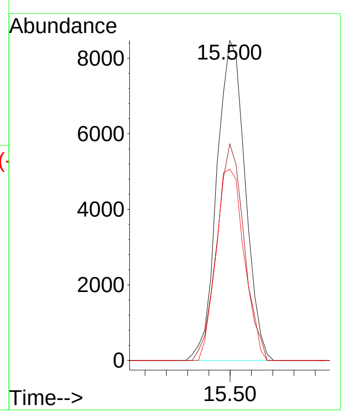
Manual Integrations
APPROVED
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024



#94
Hexachlorobutadiene
Concen: 17.967 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:225 Resp: 15646

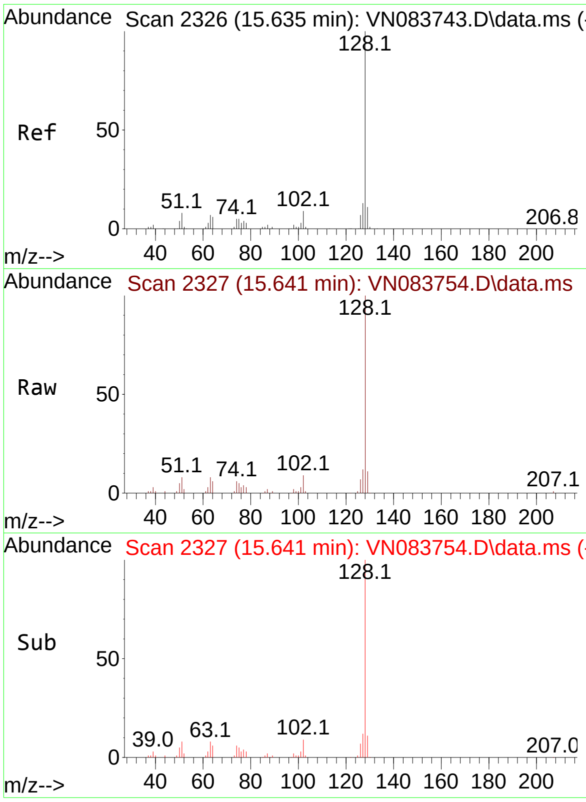
Ion	Ratio	Lower	Upper
225	100		
223	65.0	31.9	95.5
227	60.1	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VN0910WBSD01

Manual Integrations APPROVED

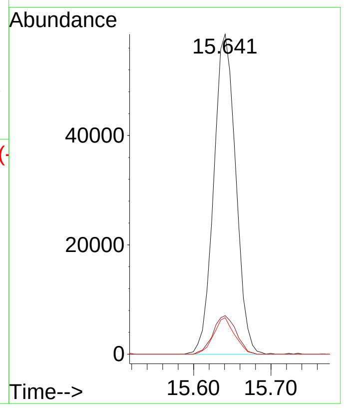
Reviewed By :John Carlone 09/11/2024
Supervised By :Semsettin Yesilyurt 09/11/2024

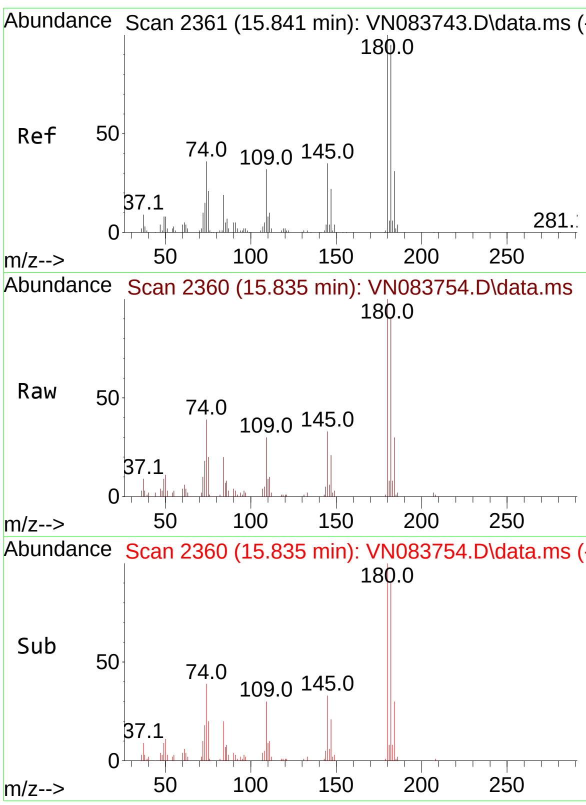


#95
Naphthalene
Concen: 18.566 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:128 Resp: 11582

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.8	8.7	13.1

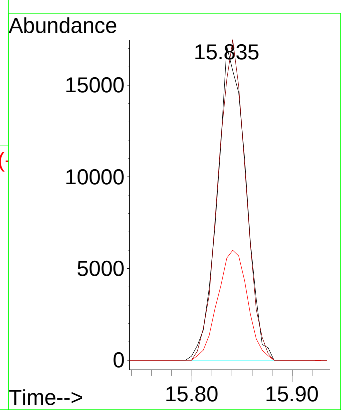




#96
1,2,3-Trichlorobenzene
Concen: 17.203 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN083754.D
Acq: 10 Sep 2024 16:07

Tgt Ion:180 Resp: 33713

Ion	Ratio	Lower	Upper
180	100		
182	99.0	47.1	141.4
145	36.8	17.8	53.5



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

Manual Integration Report

Sequence:	VN091024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN083742.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:52:33 AM	SAM	9/11/2024 7:07:21 PM	Peak Integrated by Software
VSTDICCC050	VN083743.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:52:37 AM	SAM	9/11/2024 7:07:34 PM	Peak Integrated by Software
VSTDICC010	VN083745.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:52:46 AM	SAM	9/11/2024 7:07:38 PM	Peak Integrated by Software
VSTDICC005	VN083746.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:52:50 AM	SAM	9/11/2024 7:07:40 PM	Peak Integrated by Software
VSTDICC005	VN083746.D	Tert butyl alcohol	JOHN	9/11/2024 9:52:50 AM	SAM	9/11/2024 7:07:40 PM	Peak Integrated by Software
VSTDICC001	VN083747.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:52:55 AM	SAM	9/11/2024 7:07:43 PM	Peak Integrated by Software
VSTDICC001	VN083747.D	1,4-Dichlorobenzene	JOHN	9/11/2024 9:52:55 AM	SAM	9/11/2024 7:07:43 PM	Peak Integrated by Software
VSTDICC001	VN083747.D	Chloroethane	JOHN	9/11/2024 9:52:55 AM	SAM	9/11/2024 7:07:43 PM	Peak Integrated by Software
VSTDICC001	VN083747.D	Chloromethane	JOHN	9/11/2024 9:52:55 AM	SAM	9/11/2024 7:07:43 PM	Peak Integrated by Software
VSTDICC001	VN083747.D	Methacrylonitrile	JOHN	9/11/2024 9:52:55 AM	SAM	9/11/2024 7:07:43 PM	Peak Integrated by Software
VSTDICC001	VN083747.D	Methyl Acetate	JOHN	9/11/2024 9:52:55 AM	SAM	9/11/2024 7:07:43 PM	Peak Integrated by Software
VSTDICC020	VN083749.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:52:59 AM	SAM	9/11/2024 7:07:45 PM	Peak Integrated by Software
VSTDICV050	VN083750.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:53:03 AM	SAM	9/11/2024 7:07:47 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN091024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VN0910WBS01	VN083753.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:53:08 AM	SAM	9/11/2024 7:07:49 PM	Peak Integrated by Software
VN0910WBSD01	VN083754.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:53:12 AM	SAM	9/11/2024 7:07:51 PM	Peak Integrated by Software
VSTDCCC050	VN083763.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:53:30 AM	SAM	9/11/2024 7:07:56 PM	Peak Integrated by Software
VSTDCCC050	VN083765.D	1,2,3-Trichloropropane	JOHN	9/11/2024 9:53:35 AM	SAM	9/11/2024 7:07:58 PM	Peak Integrated by Software
VSTDCCC050	VN083789.D	1,2,3-Trichloropropane	JOHN	9/11/2024 4:17:34 PM	SAM	9/11/2024 7:08:27 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn091124	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN083791.D	1,2,3-Trichloropropane	JOHN	9/12/2024 9:39:10 AM	MMDadoda	9/12/2024 4:33:13 PM	Peak Integrated by Software
VN0911WBS01	VN083799.D	1,2,3-Trichloropropane	JOHN	9/12/2024 9:39:15 AM	MMDadoda	9/12/2024 4:33:14 PM	Peak Integrated by Software
VSTDCCC050	VN083817.D	1,2,3-Trichloropropane	JOHN	9/12/2024 9:40:16 AM	MMDadoda	9/12/2024 4:33:28 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN091024

Review By	John Carlone	Review On	9/11/2024 4:18:14 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/11/2024 7:08:33 PM		
SubDirectory	VN091024	HP Acquire Method		HP Processing Method	82N091024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130211,VP130225
Initial Calibration Stds	VP130230,VP130231,VP130232,VP130233,VP130234,VP130235
CCC	VP130212,VP130213,VP130226
Internal Standard/PEM	
ICV/I.BLK	VP130236
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083741.D	10 Sep 2024 08:02	JC\MD	Ok
2	VSTDICC100	VN083742.D	10 Sep 2024 09:08	JC\MD	Ok,M
3	VSTDICCC050	VN083743.D	10 Sep 2024 09:32	JC\MD	Ok,M
4	VSTDICC020	VN083744.D	10 Sep 2024 09:56	JC\MD	Not Ok
5	VSTDICC010	VN083745.D	10 Sep 2024 10:20	JC\MD	Ok,M
6	VSTDICC005	VN083746.D	10 Sep 2024 10:44	JC\MD	Ok,M
7	VSTDICC001	VN083747.D	10 Sep 2024 11:32	JC\MD	Ok,M
8	IBLK	VN083748.D	10 Sep 2024 11:56	JC\MD	Ok
9	VSTDICC020	VN083749.D	10 Sep 2024 12:43	JC\MD	Ok,M
10	VSTDICV050	VN083750.D	10 Sep 2024 13:36	JC\MD	Ok,M
11	VN0910MBL01	VN083751.D	10 Sep 2024 14:10	JC\MD	Ok
12	VN0910WBL01	VN083752.D	10 Sep 2024 14:34	JC\MD	Ok
13	VN0910WBS01	VN083753.D	10 Sep 2024 15:34	JC\MD	Ok,M
14	VN0910WBSD01	VN083754.D	10 Sep 2024 16:07	JC\MD	Ok,M
15	P3845-01	VN083755.D	10 Sep 2024 16:31	JC\MD	Dilution
16	IBLK	VN083756.D	10 Sep 2024 16:55	JC\MD	Ok
17	P3841-02DL	VN083757.D	10 Sep 2024 17:20	JC\MD	Ok
18	P3841-03DL	VN083758.D	10 Sep 2024 17:44	JC\MD	Ok
19	P3868-01	VN083759.D	10 Sep 2024 18:08	JC\MD	Ok
20	P3868-02	VN083760.D	10 Sep 2024 18:32	JC\MD	Ok
21	P3907-02	VN083761.D	10 Sep 2024 18:56	JC\MD	Ok,M

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN091024

Review By	John Carlone	Review On	9/11/2024 4:18:14 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/11/2024 7:08:33 PM		
SubDirectory	VN091024	HP Acquire Method		HP Processing Method	82N091024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130211,VP130225
Initial Calibration Stds	VP130230,VP130231,VP130232,VP130233,VP130234,VP130235
CCC	VP130212,VP130213,VP130226
Internal Standard/PEM	
ICV/I.BLK	VP130236
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3907-08	VN083762.D	10 Sep 2024 19:20	JC\MD	Ok,M
23	VSTDCCC050	VN083763.D	10 Sep 2024 19:44	JC\MD	Ok,M
24	BFB	VN083764.D	11 Sep 2024 02:03	JC\MD	Ok
25	VSTDCCC050	VN083765.D	11 Sep 2024 02:27	JC\MD	Ok,M
26	VN0910MBL02	VN083766.D	11 Sep 2024 02:51	JC\MD	Ok
27	VN0910WBL02	VN083767.D	11 Sep 2024 03:15	JC\MD	Ok
28	VN0910WBS02	VN083768.D	11 Sep 2024 03:39	JC\MD	Ok,M
29	VN0910WBSD02	VN083769.D	11 Sep 2024 04:03	JC\MD	Ok,M
30	PB163204TB	VN083770.D	11 Sep 2024 04:27	JC\MD	Ok,M
31	PB163204ZHE#01	VN083771.D	11 Sep 2024 04:50	JC\MD	Ok,M
32	PB163204ZHE#02	VN083772.D	11 Sep 2024 05:14	JC\MD	Ok,M
33	PB163204ZHE#03	VN083773.D	11 Sep 2024 05:38	JC\MD	Ok,M
34	PB163204ZHE#04	VN083774.D	11 Sep 2024 06:02	JC\MD	Ok,M
35	PB163204ZHE#05	VN083775.D	11 Sep 2024 06:26	JC\MD	Ok,M
36	PB163204ZHE#06	VN083776.D	11 Sep 2024 06:50	JC\MD	Ok
37	PB163204ZHE#07	VN083777.D	11 Sep 2024 07:14	JC\MD	Ok,M
38	PB163204ZHE#08	VN083778.D	11 Sep 2024 07:38	JC\MD	Ok,M
39	PB163204ZHE#09	VN083779.D	11 Sep 2024 08:02	JC\MD	Ok,M
40	PB163204ZHE#10	VN083780.D	11 Sep 2024 08:26	JC\MD	Ok,M
41	PB163204ZHE#11	VN083781.D	11 Sep 2024 08:50	JC\MD	Ok,M
42	PB163204ZHE#12	VN083782.D	11 Sep 2024 09:14	JC\MD	Ok
43	P3872-01	VN083783.D	11 Sep 2024 09:38	JC\MD	Ok
44	P3892-02	VN083784.D	11 Sep 2024 10:02	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN091024

Review By	John Carlone	Review On	9/11/2024 4:18:14 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/11/2024 7:08:33 PM		
SubDirectory	VN091024	HP Acquire Method		HP Processing Method	82N091024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130211,VP130225
Initial Calibration Stds	VP130230,VP130231,VP130232,VP130233,VP130234,VP130235
CCC	VP130212,VP130213,VP130226
Internal Standard/PEM	
ICV/I.BLK	VP130236
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P3906-02	VN083785.D	11 Sep 2024 10:26	JC\MD	Ok
46	P3906-08	VN083786.D	11 Sep 2024 10:50	JC\MD	Ok
47	P3906-14	VN083787.D	11 Sep 2024 11:14	JC\MD	Ok
48	P3891-02	VN083788.D	11 Sep 2024 11:38	JC\MD	ReRun
49	VSTDCCC050	VN083789.D	11 Sep 2024 12:02	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN091124

Review By	John Carlone	Review On	9/12/2024 9:49:59 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/12/2024 4:33:31 PM		
SubDirectory	VN091124	HP Acquire Method		HP Processing Method	82N091024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130256
Initial Calibration Stds	
CCC	VP130257,VP130258
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083790.D	11 Sep 2024 12:25	JC\MD	Ok
2	VSTDCCC050	VN083791.D	11 Sep 2024 12:59	JC\MD	Ok,M
3	VN0911MBL01	VN083792.D	11 Sep 2024 13:33	JC\MD	Ok
4	VN0911WBL01	VN083793.D	11 Sep 2024 13:57	JC\MD	Ok
5	P3839-02	VN083794.D	11 Sep 2024 14:21	JC\MD	ReRun
6	P3839-01	VN083795.D	11 Sep 2024 14:45	JC\MD	Ok
7	IBLK	VN083796.D	11 Sep 2024 15:09	JC\MD	Ok
8	P3845-01DL	VN083797.D	11 Sep 2024 15:33	JC\MD	Ok
9	IBLK	VN083798.D	11 Sep 2024 16:21	JC\MD	Ok
10	VN0911WBS01	VN083799.D	11 Sep 2024 16:45	JC\MD	Ok,M
11	VN0911WBSD01	VN083800.D	11 Sep 2024 17:09	JC\MD	Ok,M
12	P3839-02	VN083801.D	11 Sep 2024 17:33	JC\MD	Ok,M
13	P3891-02	VN083802.D	11 Sep 2024 17:57	JC\MD	Ok,M
14	P3913-04	VN083803.D	11 Sep 2024 18:21	JC\MD	Not Ok
15	P3913-06	VN083804.D	11 Sep 2024 18:45	JC\MD	Not Ok
16	P3913-08	VN083805.D	11 Sep 2024 19:09	JC\MD	Not Ok
17	P3913-10	VN083806.D	11 Sep 2024 19:33	JC\MD	Not Ok
18	PB163246TB	VN083807.D	11 Sep 2024 19:57	JC\MD	Ok,M
19	P3911-02	VN083808.D	11 Sep 2024 20:21	JC\MD	Ok,M
20	P3911-04	VN083809.D	11 Sep 2024 20:45	JC\MD	Ok,M
21	P3911-06	VN083810.D	11 Sep 2024 21:09	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN091124

Review By	John Carlone	Review On	9/12/2024 9:49:59 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/12/2024 4:33:31 PM		
SubDirectory	VN091124	HP Acquire Method		HP Processing Method	82N091024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130256
Initial Calibration Stds	
CCC	VP130257,VP130258
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3905-06	VN083811.D	11 Sep 2024 21:33	JC\MD	ReRun
23	P3912-01	VN083812.D	11 Sep 2024 21:57	JC\MD	Ok
24	P3913-05	VN083813.D	11 Sep 2024 22:21	JC\MD	Ok
25	P3913-07	VN083814.D	11 Sep 2024 22:45	JC\MD	Ok
26	P3913-09	VN083815.D	11 Sep 2024 23:09	JC\MD	Ok
27	P3913-11	VN083816.D	11 Sep 2024 23:33	JC\MD	Ok
28	VSTDCCC050	VN083817.D	11 Sep 2024 23:56	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN091024

Review By	John Carlone	Review On	9/11/2024 4:18:14 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/11/2024 7:08:33 PM		
SubDirectory	VN091024	HP Acquire Method		HP Processing Method	82N091024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130211,VP130225
Initial Calibration Stds	VP130230,VP130231,VP130232,VP130233,VP130234,VP130235
CCC	VP130212,VP130213,VP130226
Internal Standard/PEM	
ICV/I.BLK	VP130236
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN083741.D	10 Sep 2024 08:02		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN083742.D	10 Sep 2024 09:08	Good for DOD & Non DOD	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN083743.D	10 Sep 2024 09:32	LR- 3, 18	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN083744.D	10 Sep 2024 09:56	Not used	JC\MD	Not Ok
5	VSTDICC010	VSTDICC010	VN083745.D	10 Sep 2024 10:20		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN083746.D	10 Sep 2024 10:44		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN083747.D	10 Sep 2024 11:32		JC\MD	Ok,M
8	IBLK	IBLK	VN083748.D	10 Sep 2024 11:56		JC\MD	Ok
9	VSTDICC020	VSTDICC020	VN083749.D	10 Sep 2024 12:43		JC\MD	Ok,M
10	VSTDICV050	ICVVN091024	VN083750.D	10 Sep 2024 13:36		JC\MD	Ok,M
11	VN0910MBL01	VN0910MBL01	VN083751.D	10 Sep 2024 14:10		JC\MD	Ok
12	VN0910WBL01	VN0910WBL01	VN083752.D	10 Sep 2024 14:34		JC\MD	Ok
13	VN0910WBS01	VN0910WBS01	VN083753.D	10 Sep 2024 15:34	BS low	JC\MD	Ok,M
14	VN0910WBSD01	VN0910WBSD01	VN083754.D	10 Sep 2024 16:07		JC\MD	Ok,M
15	P3845-01	PT-VOA-WP	VN083755.D	10 Sep 2024 16:31	BS low, Need 4X	JC\MD	Dilution
16	IBLK	IBLK	VN083756.D	10 Sep 2024 16:55		JC\MD	Ok
17	P3841-02DL	OW-07B-65.5-090424D	VN083757.D	10 Sep 2024 17:20	vial B pH<2	JC\MD	Ok
18	P3841-03DL	MW-11B-37.5-090424D	VN083758.D	10 Sep 2024 17:44	vial B pH<2	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN091024

Review By	John Carlone	Review On	9/11/2024 4:18:14 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/11/2024 7:08:33 PM		
SubDirectory	VN091024	HP Acquire Method		HP Processing Method	82N091024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130211,VP130225
Initial Calibration Stds	VP130230,VP130231,VP130232,VP130233,VP130234,VP130235
CCC	VP130212,VP130213,VP130226
Internal Standard/PEM	
ICV/I.BLK	VP130236
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3868-01	OWBR-06-219-090524	VN083759.D	10 Sep 2024 18:08	vial B pH<2	JC\MD	Ok
20	P3868-02	OWBR-01-170-090524	VN083760.D	10 Sep 2024 18:32	vial B pH<2	JC\MD	Ok
21	P3907-02	PL-701-COMP-54	VN083761.D	10 Sep 2024 18:56	vial A pH#5.0	JC\MD	Ok,M
22	P3907-08	PL-701-COMP-55	VN083762.D	10 Sep 2024 19:20	vial A pH#5.0	JC\MD	Ok,M
23	VSTDCCC050	VSTDCCC050EC	VN083763.D	10 Sep 2024 19:44		JC\MD	Ok,M
24	BFB	BFB	VN083764.D	11 Sep 2024 02:03		JC\MD	Ok
25	VSTDCCC050	VSTDCCC050	VN083765.D	11 Sep 2024 02:27		JC\MD	Ok,M
26	VN0910MBL02	VN0910WBL03	VN083766.D	11 Sep 2024 02:51		JC\MD	Ok
27	VN0910WBL02	VN0910WBL04	VN083767.D	11 Sep 2024 03:15		JC\MD	Ok
28	VN0910WBS02	VN0910WBS02	VN083768.D	11 Sep 2024 03:39		JC\MD	Ok,M
29	VN0910WBSD02	VN0910WBSD02	VN083769.D	11 Sep 2024 04:03		JC\MD	Ok,M
30	PB163204TB	PB163204TB	VN083770.D	11 Sep 2024 04:27		JC\MD	Ok,M
31	PB163204ZHE#01	PB163204ZHE#01	VN083771.D	11 Sep 2024 04:50		JC\MD	Ok,M
32	PB163204ZHE#02	PB163204ZHE#02	VN083772.D	11 Sep 2024 05:14		JC\MD	Ok,M
33	PB163204ZHE#03	PB163204ZHE#03	VN083773.D	11 Sep 2024 05:38		JC\MD	Ok,M
34	PB163204ZHE#04	PB163204ZHE#04	VN083774.D	11 Sep 2024 06:02		JC\MD	Ok,M
35	PB163204ZHE#05	PB163204ZHE#05	VN083775.D	11 Sep 2024 06:26		JC\MD	Ok,M
36	PB163204ZHE#06	PB163204ZHE#06	VN083776.D	11 Sep 2024 06:50		JC\MD	Ok
37	PB163204ZHE#07	PB163204ZHE#07	VN083777.D	11 Sep 2024 07:14		JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN091024

Review By	John Carlone	Review On	9/11/2024 4:18:14 PM
Supervise By	Semsettin Yesilyurt	Supervise On	9/11/2024 7:08:33 PM
SubDirectory	VN091024	HP Acquire Method	
HP Processing Method	82N091024W.M		

STD. NAME	STD REF.#
Tune/Reschk	VP130211,VP130225
Initial Calibration Stds	VP130230,VP130231,VP130232,VP130233,VP130234,VP130235
CCC	VP130212,VP130213,VP130226
Internal Standard/PEM	
ICV/I.BLK	VP130236
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	PB163204ZHE#08	PB163204ZHE#08	VN083778.D	11 Sep 2024 07:38		JC\MD	Ok,M
39	PB163204ZHE#09	PB163204ZHE#09	VN083779.D	11 Sep 2024 08:02		JC\MD	Ok,M
40	PB163204ZHE#10	PB163204ZHE#10	VN083780.D	11 Sep 2024 08:26		JC\MD	Ok,M
41	PB163204ZHE#11	PB163204ZHE#11	VN083781.D	11 Sep 2024 08:50		JC\MD	Ok,M
42	PB163204ZHE#12	PB163204ZHE#12	VN083782.D	11 Sep 2024 09:14		JC\MD	Ok
43	P3872-01	WC-S-07-202409	VN083783.D	11 Sep 2024 09:38	vial A pH#5.0	JC\MD	Ok
44	P3892-02	ARS20-005	VN083784.D	11 Sep 2024 10:02	vial A pH#5.0	JC\MD	Ok,M
45	P3906-02	SU-701-COMP-01	VN083785.D	11 Sep 2024 10:26	vial A pH#5.0	JC\MD	Ok
46	P3906-08	SU-701-COMP-02	VN083786.D	11 Sep 2024 10:50	vial A pH#5.0	JC\MD	Ok
47	P3906-14	SU-701-COMP-03	VN083787.D	11 Sep 2024 11:14	vial A pH#5.0	JC\MD	Ok
48	P3891-02	AUD-SBG	VN083788.D	11 Sep 2024 11:38	vial A pH#5.0 Surrogate Fail	JC\MD	ReRun
49	VSTDCCC050	VSTDCCC050EC	VN083789.D	11 Sep 2024 12:02		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN091124

Review By	John Carlone	Review On	9/12/2024 9:49:59 AM
Supervise By	Mahesh Dadoda	Supervise On	9/12/2024 4:33:31 PM
SubDirectory	VN091124	HP Acquire Method	
HP Processing Method	82N091024W.M		

STD. NAME	STD REF.#
Tune/Reschk	VP130256
Initial Calibration Stds	
CCC	VP130257,VP130258
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN083790.D	11 Sep 2024 12:25		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN083791.D	11 Sep 2024 12:59	V13516	JC\MD	Ok,M
3	VN0911MBL01	VN0911MBL01	VN083792.D	11 Sep 2024 13:33		JC\MD	Ok
4	VN0911WBL01	VN0911WBL01	VN083793.D	11 Sep 2024 13:57		JC\MD	Ok
5	P3839-02	830	VN083794.D	11 Sep 2024 14:21	vial A pH<2 Surrogate Fail	JC\MD	ReRun
6	P3839-01	828	VN083795.D	11 Sep 2024 14:45	vial A pH<2	JC\MD	Ok
7	IBLK	IBLK	VN083796.D	11 Sep 2024 15:09		JC\MD	Ok
8	P3845-01DL	PT-VOA-WPDL	VN083797.D	11 Sep 2024 15:33		JC\MD	Ok
9	IBLK	IBLK	VN083798.D	11 Sep 2024 16:21		JC\MD	Ok
10	VN0911WBS01	VN0911WBS01	VN083799.D	11 Sep 2024 16:45		JC\MD	Ok,M
11	VN0911WBSD01	VN0911WBSD01	VN083800.D	11 Sep 2024 17:09		JC\MD	Ok,M
12	P3839-02	830	VN083801.D	11 Sep 2024 17:33	vial B pH<2	JC\MD	Ok,M
13	P3891-02	AUD-SBG	VN083802.D	11 Sep 2024 17:57	vial B pH#5.0	JC\MD	Ok,M
14	P3913-04	9424-A-C	VN083803.D	11 Sep 2024 18:21	Need straight run	JC\MD	Not Ok
15	P3913-06	9424-D-F	VN083804.D	11 Sep 2024 18:45	Need straight run	JC\MD	Not Ok
16	P3913-08	9424-D-F-82924-D	VN083805.D	11 Sep 2024 19:09	Need straight run	JC\MD	Not Ok
17	P3913-10	82924-A-C	VN083806.D	11 Sep 2024 19:33	Need straight run	JC\MD	Not Ok
18	PB163246TB	PB163246TB	VN083807.D	11 Sep 2024 19:57		JC\MD	Ok,M

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN091124

Review By	John Carlone	Review On	9/12/2024 9:49:59 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/12/2024 4:33:31 PM		
SubDirectory	VN091124	HP Acquire Method		HP Processing Method	82N091024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130256
Initial Calibration Stds	
CCC	VP130257,VP130258
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3911-02	SP-1	VN083808.D	11 Sep 2024 20:21	vial A pH#5.0	JC\MD	Ok,M
20	P3911-04	SP-2	VN083809.D	11 Sep 2024 20:45	vial A pH#5.0	JC\MD	Ok,M
21	P3911-06	SP-3	VN083810.D	11 Sep 2024 21:09	vial A pH#5.0	JC\MD	Ok,M
22	P3905-06	COMP-1	VN083811.D	11 Sep 2024 21:33	vial A pH#5.0 Surrogate Fail	JC\MD	ReRun
23	P3912-01	282-COMPOSITE-1	VN083812.D	11 Sep 2024 21:57	vial A pH<2	JC\MD	Ok
24	P3913-05	9424-A-C	VN083813.D	11 Sep 2024 22:21	vial A pH#5.0	JC\MD	Ok
25	P3913-07	9424-D-F	VN083814.D	11 Sep 2024 22:45	vial A pH#5.0	JC\MD	Ok
26	P3913-09	9424-D-F-82924-D	VN083815.D	11 Sep 2024 23:09	vial A pH#5.0	JC\MD	Ok
27	P3913-11	82924-A-C	VN083816.D	11 Sep 2024 23:33	vial A pH#5.0	JC\MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VN083817.D	11 Sep 2024 23:56		JC\MD	Ok,M

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : P3845

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VN091024,vn091124,

Standard ID :
VP126666,VP126667,VP128290,VP128298,VP128632,VP128762,VP128764,VP128766,VP128767,VP128768,VP129195,VP129517,VP129519,VP129855,VP129858,VP129860,VP130106,VP130211,VP130212,VP130213,VP130225,VP130226,VP130230,VP130231,VP130232,VP130233,VP130234,VP130235,VP130236,VP130256,VP130257,VP130258,

Chemical ID :
V12794,V12798,V12966,V13308,V13390,V13444,V13448,V13462,V13463,V13581,V13708,V13800,V13801,V13819,V13915,V13916,V13952,V13953,V13964,V14016,V14017,V14096,V14103,V14104,V14124,V14140,V14141,V14143,V14145,V14147,V14148,V14169,V14170,V14202,V14207,V14219,V14288,V14467,V14468,V14469,V14472,V14473,W3112,

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP126666	03/19/2024	09/19/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/28/2024

FROM 0.80000ml of V13708 + 49.20000ml of V14141 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1738	8260 surrogate 20 ppm	VP126667	03/19/2024	09/19/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/28/2024

FROM 0.04000ml of V13708 + 49.98000ml of V14141 = 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
218	BFB, 25PPM	VP128290	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/12/2024

FROM 0.25000ml of V13390 + 24.75000ml of V14148 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP128298	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/12/2024

FROM 0.10000ml of V14288 + 9.90000ml of V14148 = Final Quantity: 10.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP128632	06/25/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.80000ml of V13581 + 9.20000ml of V14147 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP128762	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.50000ml of V12798 + 1.50000ml of V12794 + 23.00000ml of V14147 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1812	8260 Working Std(2-CVE)-100ppm	VP128764	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.20000ml of V12798 + 19.08000ml of V14147 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP128766	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 1.50000ml of V13462 + 1.50000ml of V13463 + 12.00000ml of V14147 = Final Quantity: 15.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
252	8260 Working STD (BCM)-First source, 100PPM	VP128767	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.50000ml of V13463 + 9.50000ml of V14147 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
253	8260 Working STD (BCM)-First source, 20PPM	VP128768	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.10000ml of V13463 + 9.90000ml of V14147 = Final Quantity: 10.000 ml

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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	VP129195	07/22/2024	01/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/26/2024

FROM 1.00000ml of V12966 + 9.00000ml of V14143 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP129517	08/05/2024	09/14/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/08/2024

FROM 0.40000ml of V13444 + 1.00000ml of V13800 + 1.00000ml of V13801 + 1.00000ml of V13952 + 1.00000ml of V13953 + 1.00000ml of V14016 + 1.00000ml of V14017 + 1.00000ml of V14103 + 1.00000ml of V14104 + 1.00000ml of V14169 + 1.00000ml of V14170 + 1.00000ml of V14219 + 1.50000ml of V14202 + 1.50000ml of V14207 + 10.60000ml of V14143 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
245	8260 Calibration Working STD Mix-First source, 20PPM	VP129519	08/05/2024	09/14/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/08/2024

FROM 17.50000ml of V14143 + 2.50000ml of VP129517 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP129855	08/21/2024	09/14/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/24/2024

FROM 0.60000ml of V14473 + 1.00000ml of V14472 + 8.40000ml of V14140 = 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	VP129858	08/21/2024	09/15/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/24/2024

FROM 1.00000ml of V14469 + 1.50000ml of V14467 + 1.50000ml of V14468 + 21.00000ml of V14140 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
180	8260 Working STD (Acrolein)-First source, 100PPM	VP129860	08/21/2024	09/15/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/24/2024

FROM 17.25000ml of V14140 + 2.50000ml of VP129858 = 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	VP130106	09/04/2024	10/19/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/11/2024

FROM 0.16000ml of V13448 + 0.60000ml of V13915 + 0.80000ml of V13308 + 0.80000ml of V13819 + 0.80000ml of V13964 + 0.80000ml of V14096 + 0.80000ml of V14124 + 1.00000ml of V13916 + 4.24000ml of V14145 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP130211	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP130212	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129517 + 0.01250ml of VP129858 = 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	VP130213	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129517 + 0.01250ml of VP129858 = 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	VP130225	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP130226	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129517 + 0.01250ml of VP129858 = 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
334	1 PPB ICC, 8260-Water	VP130230	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024

FROM 39.98200ml of W3112 + 0.00200ml of VP126667 + 0.00200ml of VP128764 + 0.00200ml of VP128768 + 0.00200ml of VP129519 + 0.00200ml of VP129860 + 0.00800ml of VP128298 = 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	VP130231	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024

FROM 39.94200ml of W3112 + 0.00800ml of VP128298 + 0.01000ml of VP126667 + 0.01000ml of VP128764 + 0.01000ml of VP128768 + 0.01000ml of VP129519 + 0.01000ml of VP129860 = 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
336	10 PPB ICC, 8260-Water	VP130232	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024

FROM 39.92700ml of W3112 + 0.00100ml of VP126666 + 0.00400ml of VP128767 + 0.00800ml of VP128298 + 0.02000ml of VP128764 + 0.02000ml of VP129519 + 0.02000ml of VP129860 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
337	20 PPB ICC, 8260-Water	VP130233	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024

FROM 39.97000ml of W3112 + 0.00200ml of VP126666 + 0.00200ml of VP128766 + 0.00500ml of VP128762 + 0.00500ml of VP129517 + 0.00500ml of VP129858 + 0.00800ml of VP128298 = 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
380	50 PPB ICC, 8260-Water	VP130234	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129517 + 0.01250ml of VP129858 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
381	100 PPB ICC, 8260-Water	VP130235	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024

FROM 39.89700ml of W3112 + 0.00800ml of VP128298 + 0.01000ml of VP126666 + 0.01000ml of VP128766 + 0.02500ml of VP128762 + 0.02500ml of VP129517 + 0.02500ml of VP129858 = 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	VP130236	09/10/2024	09/11/2024	John Carlone	None	None	Mahesh Dadoda 09/11/2024

FROM 39.92950ml of W3112 + 0.00500ml of VP126666 + 0.00800ml of VP128298 + 0.01250ml of VP128632 + 0.01250ml of VP129855 + 0.01250ml of VP130106 + 0.02000ml of VP129195 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP130256	09/11/2024	09/12/2024	John Carlone	None	None	Mahesh Dadoda 09/19/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP130257	09/11/2024	09/12/2024	John Carlone	None	None	Mahesh Dadoda 09/19/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129517 + 0.01250ml of VP129858 = 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	VP130258	09/11/2024	09/12/2024	John Carlone	None	None	Mahesh Dadoda 09/19/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129517 + 0.01250ml of VP129858 = Final Quantity: 40.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	01/22/2025	07/22/2024 / SAM	07/06/2022 / SAM	V12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	112921	11/29/2024	09/04/2024 / SAM	11/16/2022 / SAM	V13308

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	12/08/2024	12/08/2023 / SAM	01/13/2023 / SAM	V13390

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	12/14/2024	06/14/2024 / SAM	01/23/2023 / SAM	V13444

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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	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	12/03/2024	06/03/2024 / SAM	01/23/2023 / SAM	V13448

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13462

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13463

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	12/25/2024	06/25/2024 / SAM	01/30/2023 / SAM	V13581

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	09/19/2024	03/19/2024 / SAM	04/12/2023 / SAM	V13708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	01/30/2025	07/30/2024 / SAM	05/31/2023 / SAM	V13800

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	12/28/2024	06/28/2024 / SAM	05/31/2023 / SAM	V13801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0197644	03/03/2025	09/03/2024 / SAM	05/31/2023 / SAM	V13819

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	A0193887	01/19/2025	07/19/2024 / SAM	07/24/2023 / SAM	V13915

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	A0193887	03/03/2025	09/03/2024 / SAM	07/24/2023 / SAM	V13916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13953

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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	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0199224	12/31/2024	09/04/2024 / SAM	09/25/2023 / SAM	V13964

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	12/14/2024	06/14/2024 / SAM	11/22/2023 / SAM	V14016

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	12/14/2024	06/14/2024 / SAM	11/22/2023 / SAM	V14017

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0205177	03/04/2025	09/04/2024 / SAM	12/22/2023 / SAM	V14096

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0205179	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0205179	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14104

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	011624	03/04/2025	09/04/2024 / SAM	01/17/2024 / SAM	V14124

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	02/16/2025	08/16/2024 / SAM	02/06/2024 / SAM	V14140

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	09/19/2024	03/19/2024 / SAM	02/06/2024 / SAM	V14141

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	12/11/2024	06/11/2024 / pedro	02/06/2024 / SAM	V14147

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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)	22L0562016	11/23/2024	05/23/2024 / pedro	02/06/2024 / SAM	V14148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14169

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14170

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14202

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14219

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	06/10/2025	06/10/2024 / SAM	04/15/2024 / SAM	V14288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081524	09/15/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081524	09/15/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14468

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081524	09/15/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081424	09/14/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081424	09/14/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14473

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

12

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

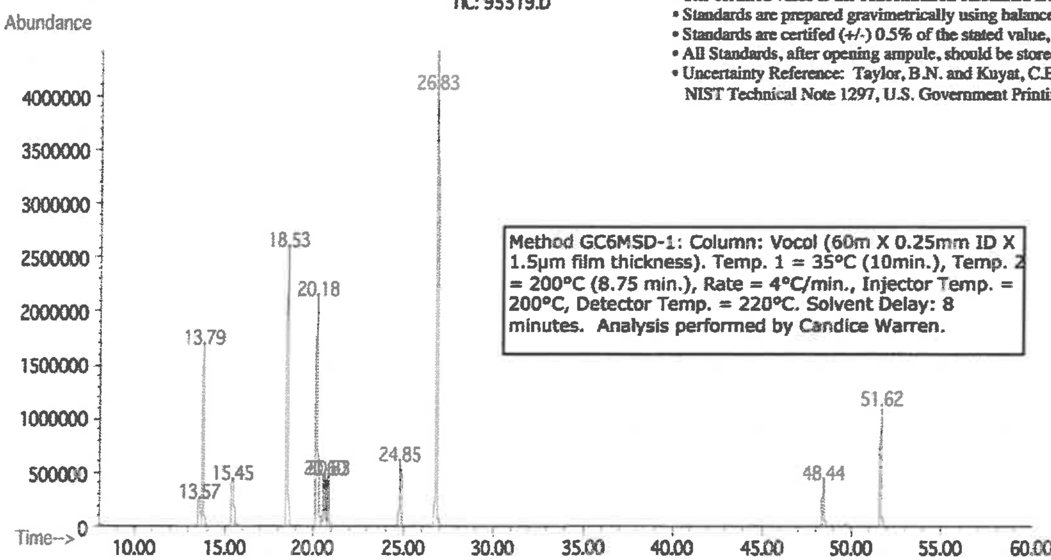
Part Number:	95319	Solvent(s):	Lot#
Lot Number:	011624	Methanol	EH471-US
Description:	Revised Additions Mix		
	11 components		
Expiration Date:	011627		
Recommended Storage:	Refrigerate (4 °C)		
Nominal Concentration (µg/mL):	Varied		
NIST Test ID#:	6UTB	5E-05	Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty

[signature]		011624
Formulated By:	Prashant Chauhan	DATE
[signature]		011624
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)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	orl-mus 2250mg/kg
8. Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	orl-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	orl-rat 6408mg/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

TIC: 95319.D



Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
59 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Solvent(s): Methanol
Lot#: EG359-US012

Formulated By:	Prashant Chauhan	021624 DATE
Reviewed By:	Pedro L. Rentas	021624 DATE

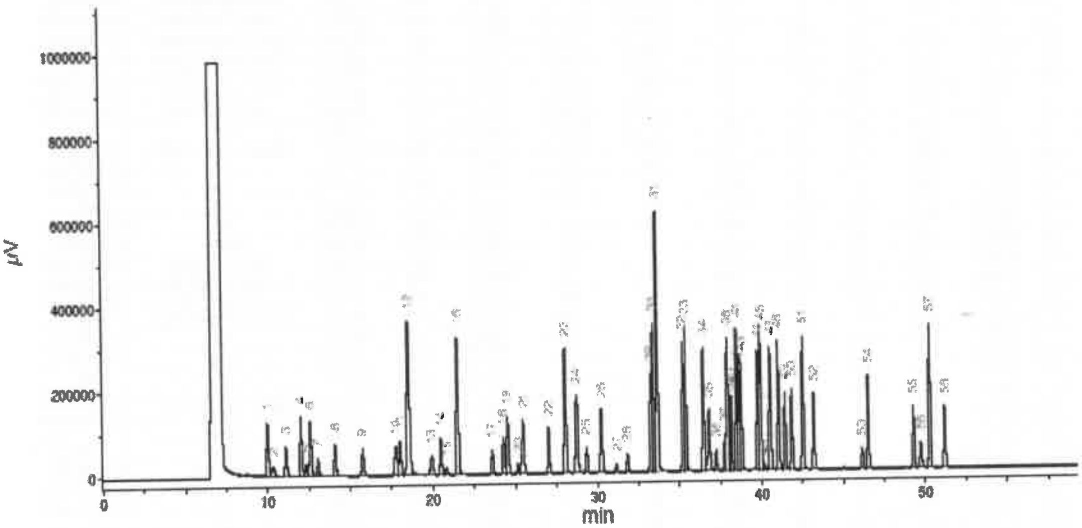
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8581	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0361)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.8	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening 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 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.57
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
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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.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Solvent(s): Methanol Lot# EG359-USQ12

Formulated By: Prashant Chauhan 021624 DATE
Reviewed By: Pedro L. Rentas 021624 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)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8581	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP8041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	)K18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.8	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	orl-rat 848mg/kg
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	N/A
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 1235mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 820mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 200mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 933mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 2350mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 908mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	orl-rat 725mg/kg
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening 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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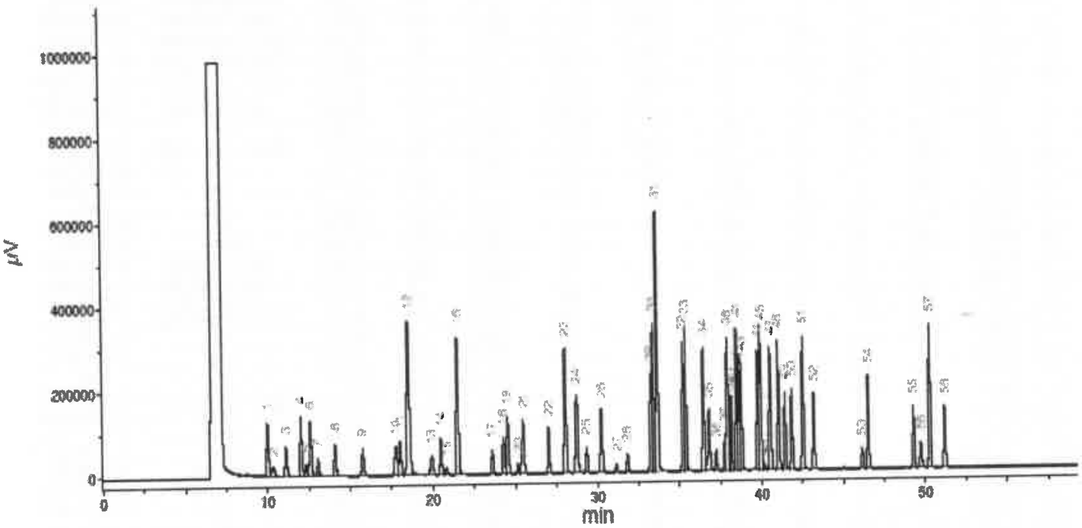
Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.57
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.38
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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CERTIFIED WEIGHT REPORT

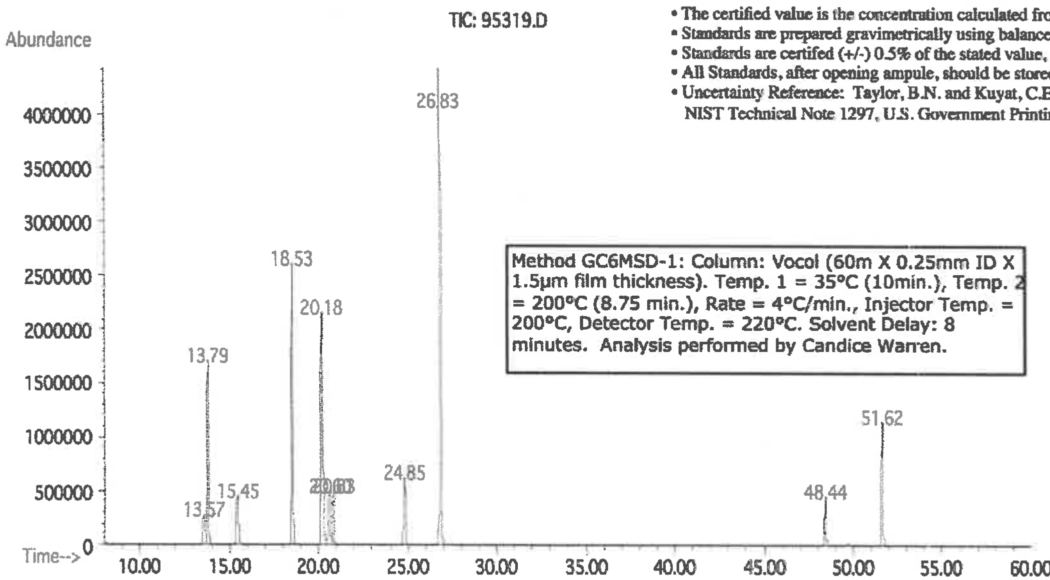
Part Number:	95319	Solvent(s):	Lot#
Lot Number:	032922	Methanol	EC592-US
Description:	Revised Additions Mix		
	11 components		
Expiration Date:	032925		
Recommended Storage:	Refrigerate (4 °C)		
Nominal Concentration (µg/mL):	Varied		
NIST Test ID#:	6UTB	5E-05	Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL):	100.0	0.012	Flask Uncertainty

Formulated By:	Prashant Chauhan	032922 DATE
Reviewed By:	Pedro L. Rentas	032922 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7.	Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8.	Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	orl-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	orl-rat 6408mg/kg

SDS Information (Solvent Safety Info. On Attached pg.)

- 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).



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

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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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** January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

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Boiling Point	65°C	Specific Gravity (H_2O = 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.absolutestandards.com

Certified Reference Material CRM

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB — 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 — 0.012 Flask Uncertainty

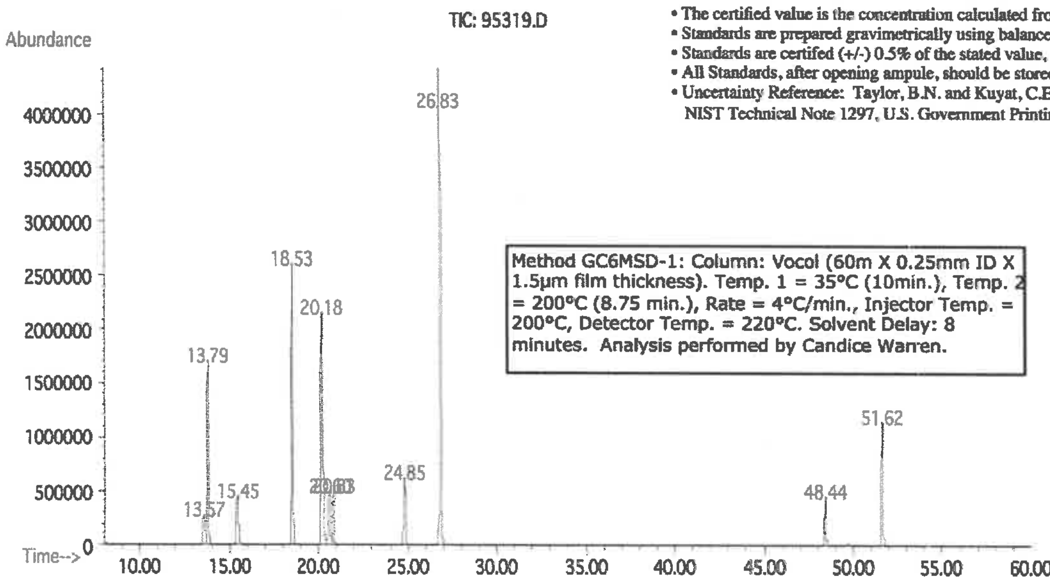
Solvent(s): Methanol — Lot# EC592-US

Formulated By:	Prashant Chauhan	032922 DATE
Reviewed By:	Pedro L. Rentas	032922 DATE

SDS Information (Solvent Safety Info. On Attached pg.)

	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)	CAS#	OSHA PEL (TWA)	LD50
1.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7.	Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8.	Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	orl-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	orl-rat 6408mg/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

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Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY	**ANALYTICAL STANDARD DISSOLVED IN METHANOL**		
Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Boiling Point	65°C	Specific Gravity (H_2O = 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

P3845-VOCMS Group1

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Certified Reference Material CRM

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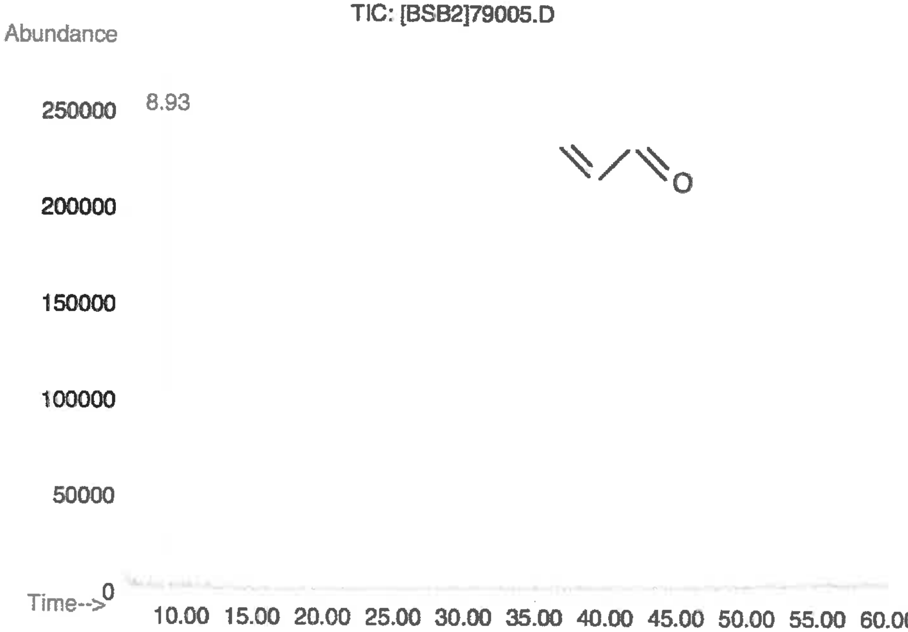
CERTIFIED WEIGHT REPORT

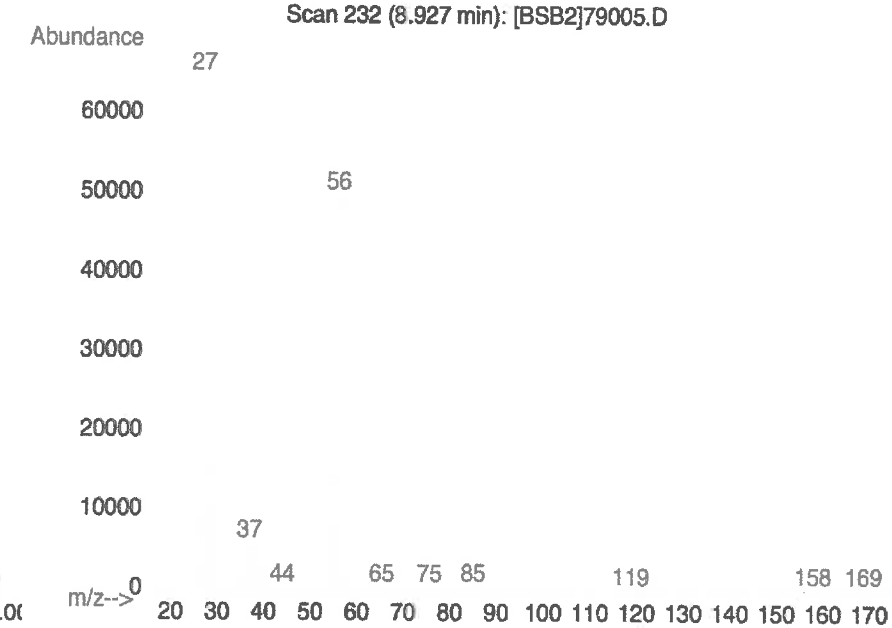
Part Number:	91980	Solvent(s):	Lot#
Lot Number:	081424	Water	121123Q
Description:	Acrolein		
Expiration Date:	091424		
Recommended Storage:	Refrigerate (4 °C)		
Nominal Concentration (µg/mL):	5000		
NIST Test ID#:	6UTB	5E-05	Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL):	10.0	0.001	Flask Uncertainty

Justin Dippold	081424	
Formulated By: Justin Dippold	DATE	
Pedro Rentas	081424	
Reviewed By: Pedro L. Rentas	DATE	

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05185	5018.6	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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CERTIFIED WEIGHT REPORT

Part Number:	91980
Lot Number:	081424
Description:	Acrolein
Expiration Date:	091424
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB
Weight(s) shown below were combined and diluted to (mL):	10.0

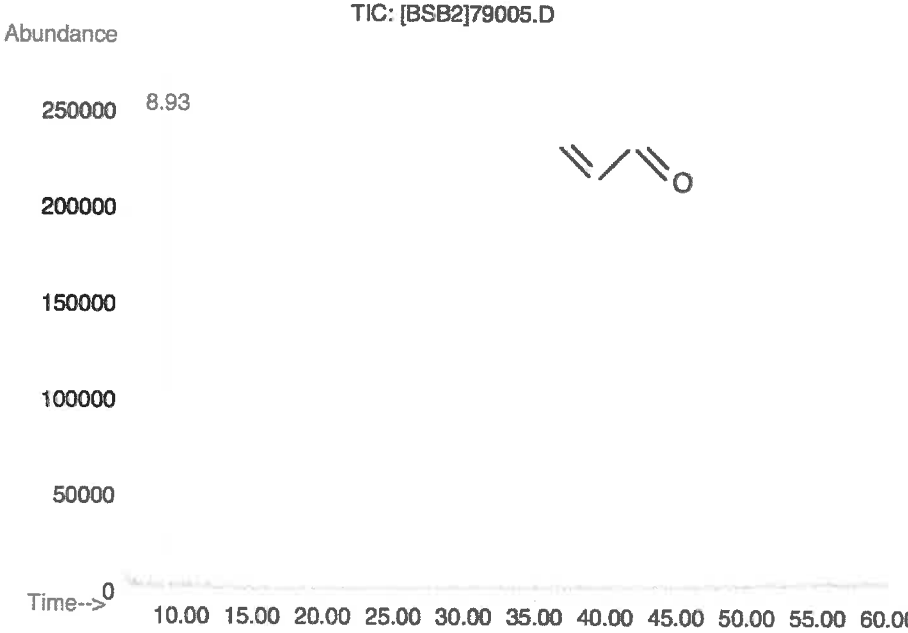
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

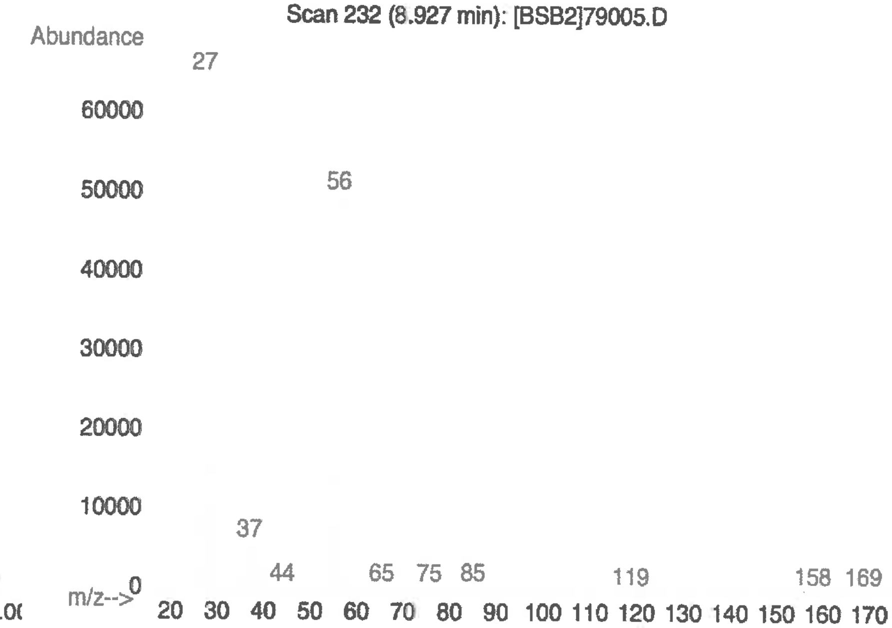
Solvent(s):	Lot#
Water	121123Q

Formulated By:	Justin Dippold	081424 DATE
Reviewed By:	Pedro L. Rentas	081424 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	103755V10F	5000	97	0.5	0.05166	0.05185	5018.6	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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CERTIFIED WEIGHT REPORT

Part Number:	91980
Lot Number:	081524
Description:	Acrolein
Expiration Date:	091524
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s):	Lot#
Water	121123Q

Gabriel Helland		081524
Formulated By:	Gabriel Helland	DATE
Pedro Rentas		081524
Reviewed By:	Pedro L. Rentas	DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

0.001 Flask Uncertainty

SDS Information
(Solvent Safety Info. On Attached pg.)

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)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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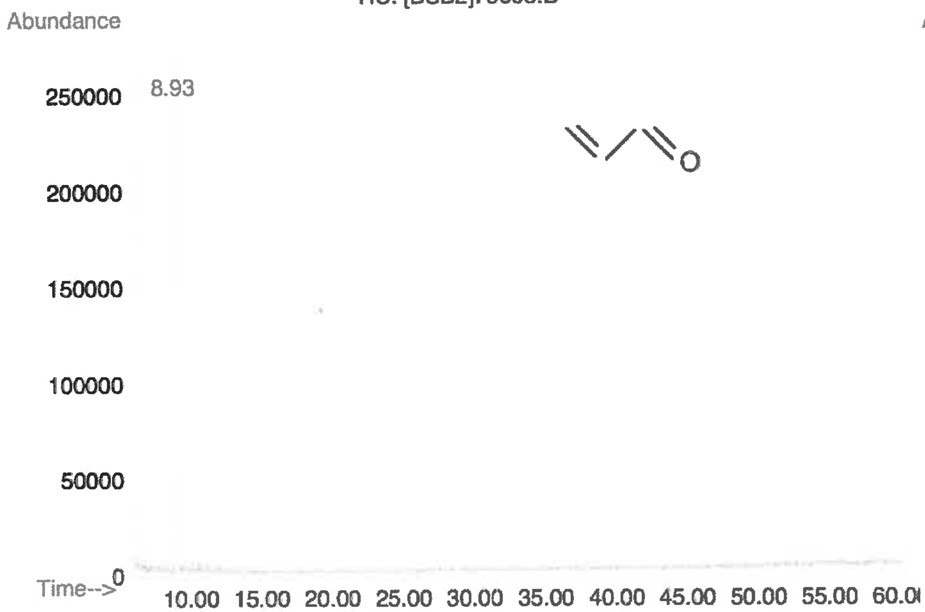

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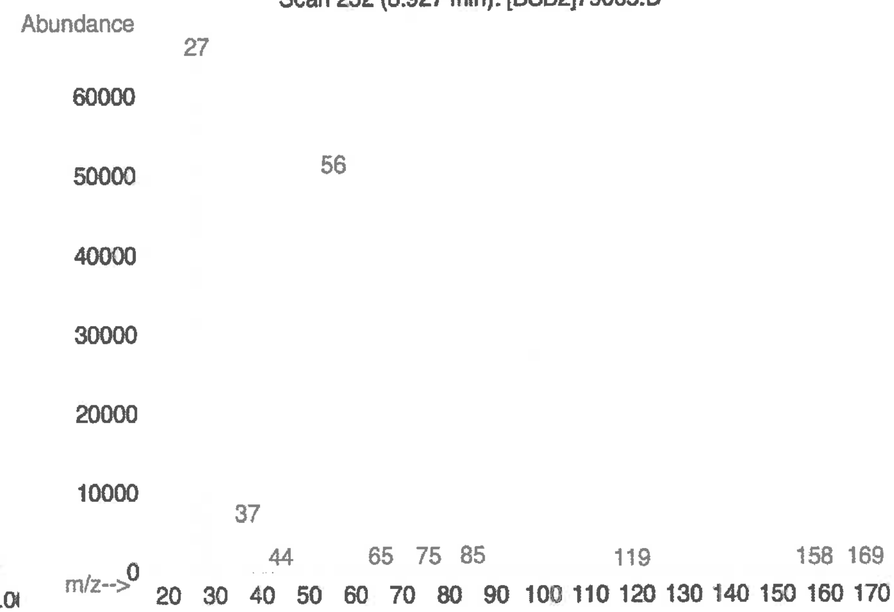

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, 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).

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Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H_2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

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	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT

Part Number:	91980
Lot Number:	081524
Description:	Acrolein
Expiration Date:	091524
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): Water **Lot#** 121123Q

Gabriel Helland	081524	
Formulated By:	Gabriel Helland	DATE
Pedro Rentas	081524	
Reviewed By:	Pedro L. Rentas	DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

SDS Information
(Solvent Safety Info. On Attached pg.)

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)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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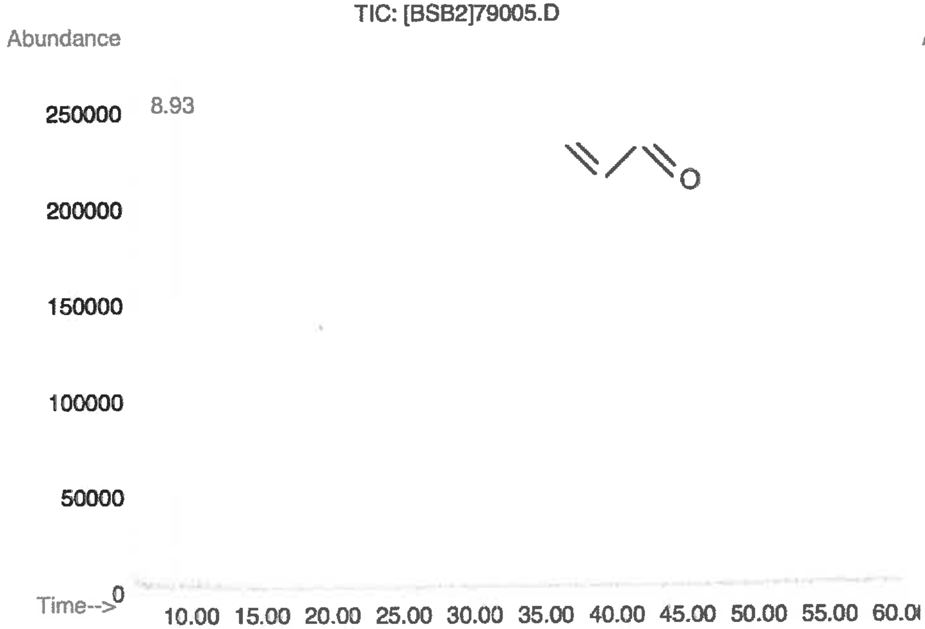

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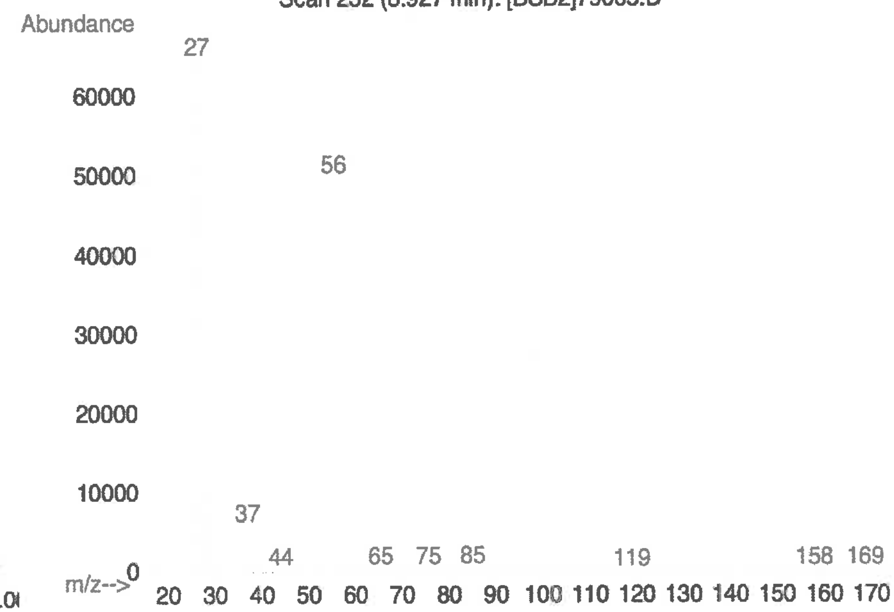

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, 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).

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Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY	**ANALYTICAL STANDARD DISSOLVED IN WATER**		
Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm	
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.

Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H_2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

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	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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CERTIFIED WEIGHT REPORT

Part Number:	91980	**Solvent(s):**	**Lot#**
Lot Number:	081524	Water	121123Q
Description:	Acrolein		
Expiration Date:	091524		
Recommended Storage:	Refrigerate (4 °C)		
Nominal Concentration (µg/mL):	5000		
NIST Test ID#:	6UTB	5E-05	Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL):	10.0	0.001	Flask Uncertainty

Gabriel Helland		081524
Formulated By:	Gabriel Helland	DATE
Pedro Rentas		081524
Reviewed By:	Pedro L. Rentas	DATE

SDS Information
(Solvent Safety Info. On Attached pg.)

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)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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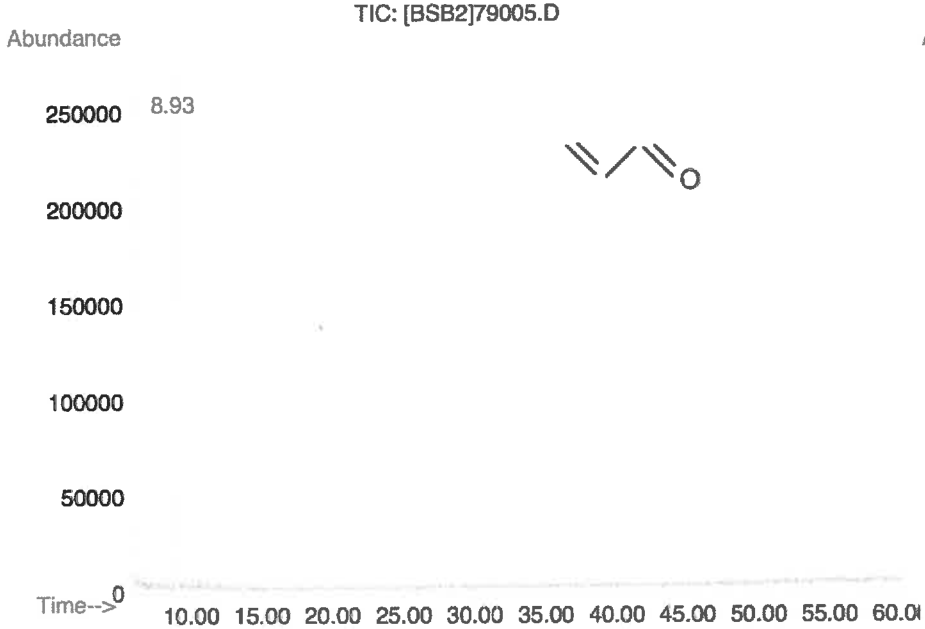

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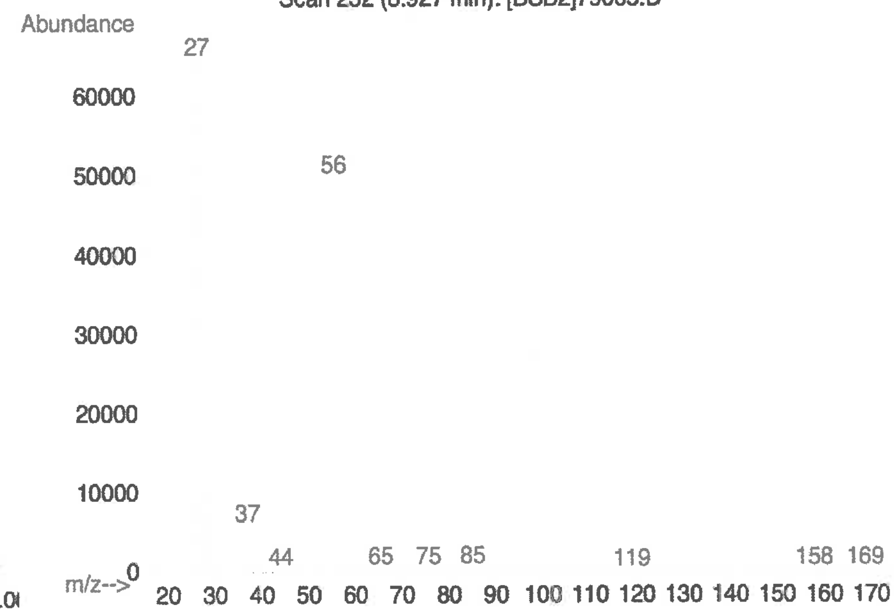

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

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Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H_2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

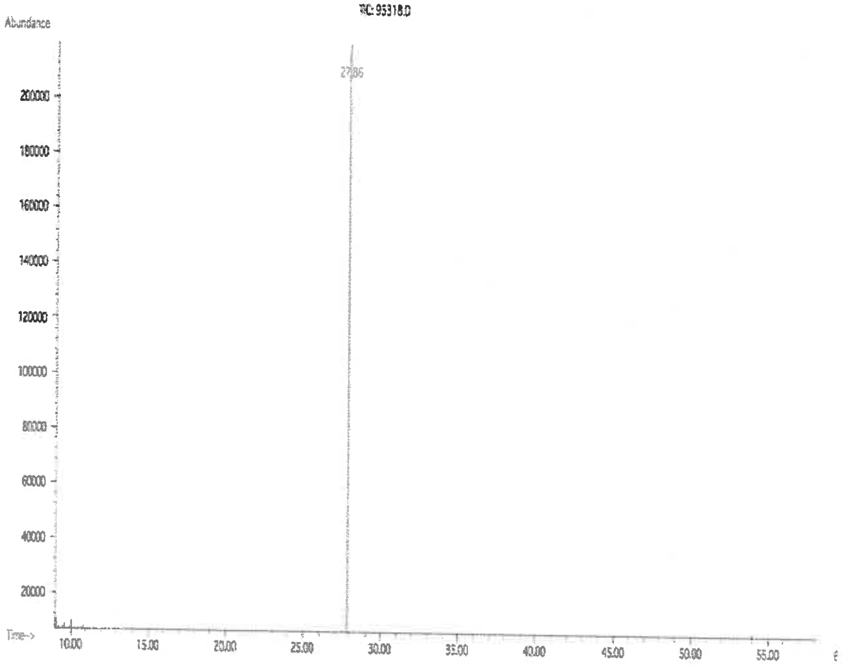
Solvent(s): Methanol — Lot# EB679-US

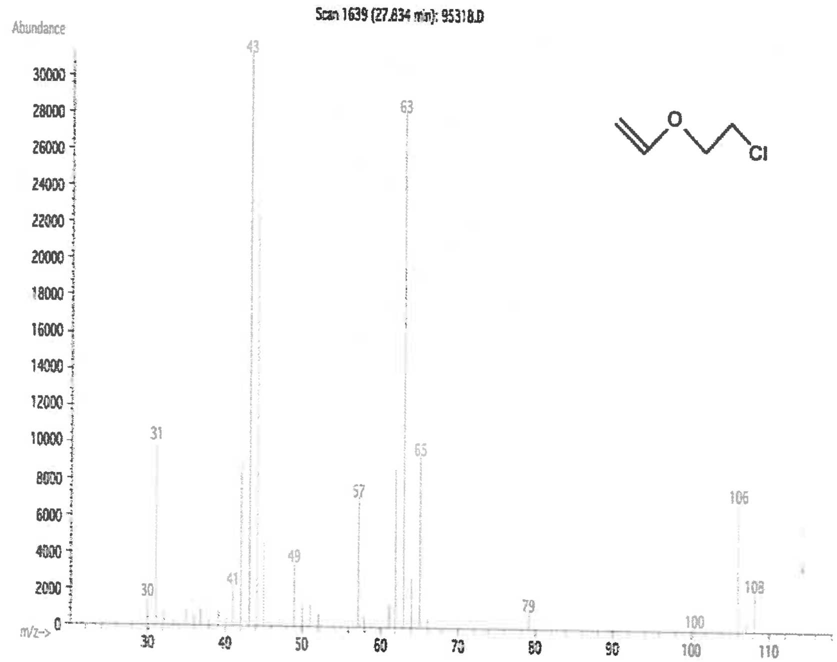
Formulated By: Eli Aliaga — 111722 DATE
Reviewed By: Pedro L. Rentas — 111722 DATE

Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB — 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 — 0.001 Flask Uncertainty

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 30.0

5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

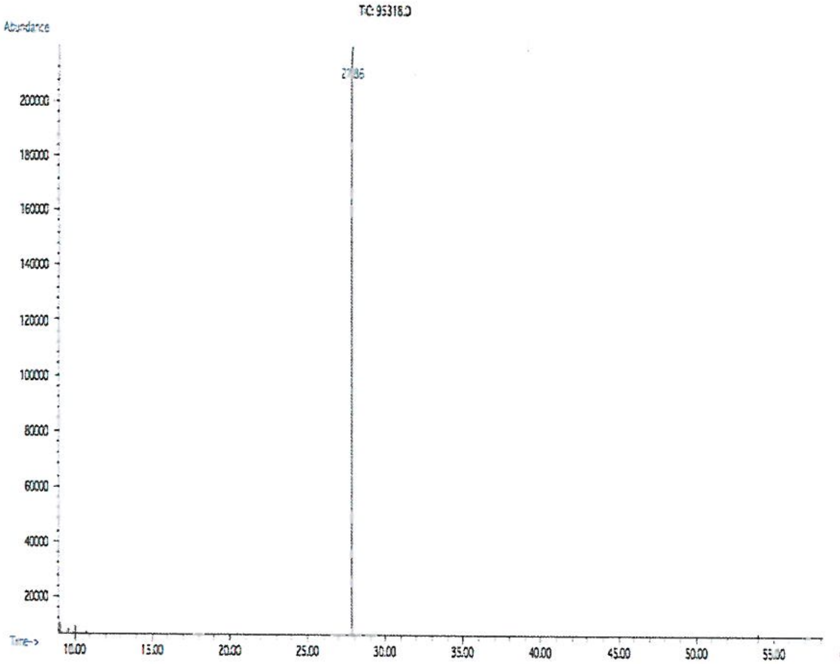
Solvent(s):	Lot#
Methanol	EA899-US

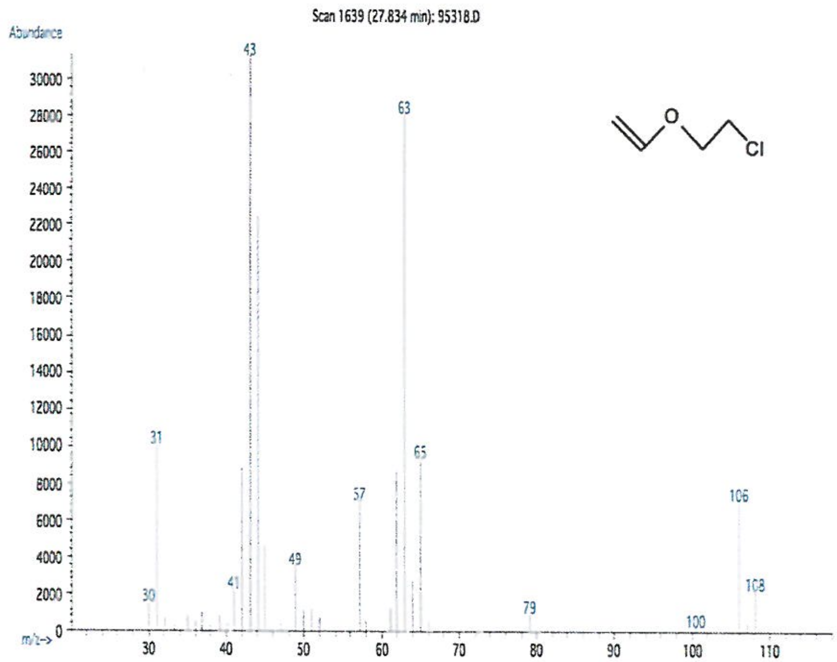
Formulated By:	Benson Chan	121321 DATE
Reviewed By:	Pedro L. Rentas	121321 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1.	2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A	orl-rat 250mg/kg

SDS Information (Solvent Safety Info. On Attached pg.)

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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Certified Reference Material CRM

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

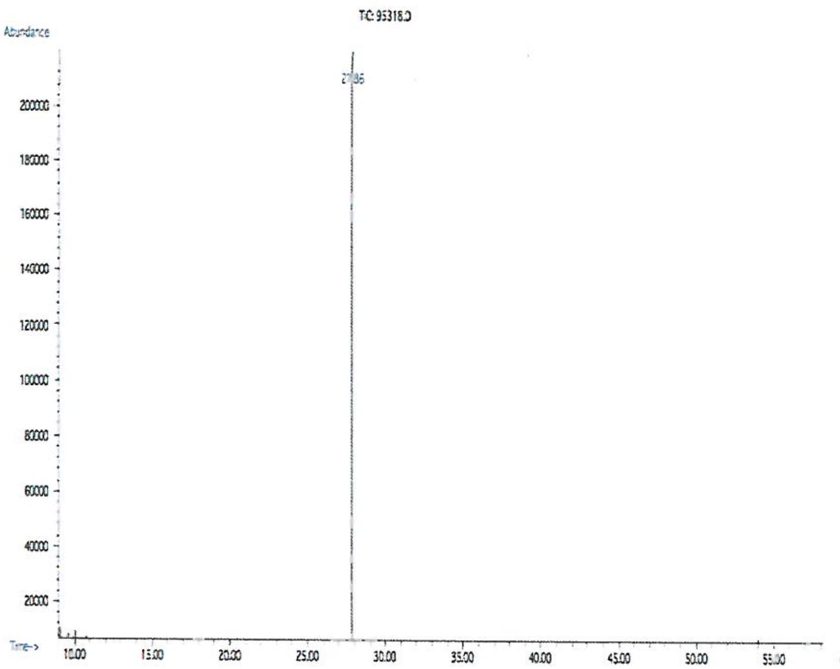
Solvent(s): Methanol — Lot# EA899-US

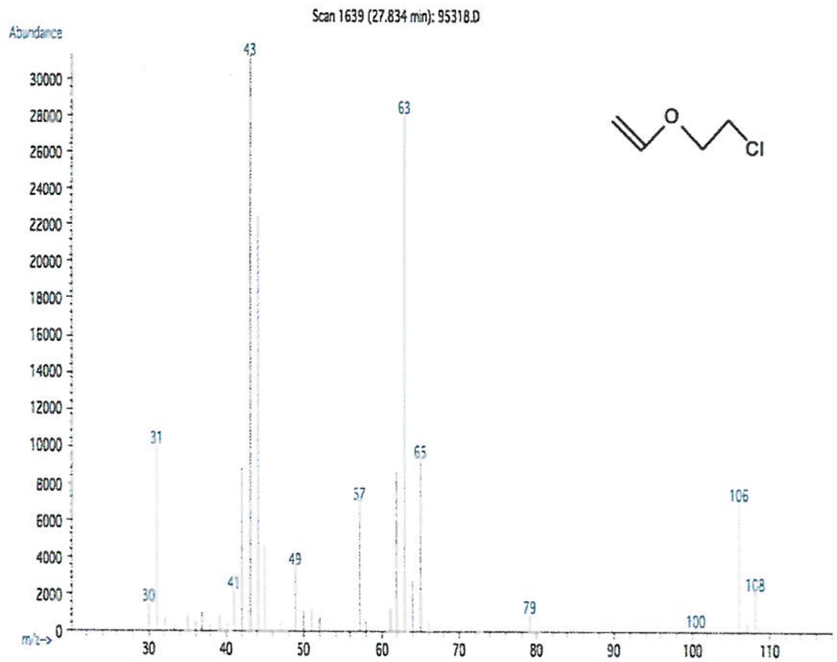
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB — 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 30.0 — 0.0003 Flask Uncertainty

121321	Formulated By: Benson Chan	DATE
121321	Reviewed By: Pedro L. Rentas	DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are 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.:** A0181905

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butanol (TBA)		50,126.0 µg/mL	+/- 293.4988	µg/mL	Gravimetric
	CAS # 75-65-0	(Lot SHBM7694)		+/- 1,073.7654	µg/mL	Unstressed
	Purity 99%			+/- 1,104.9494	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

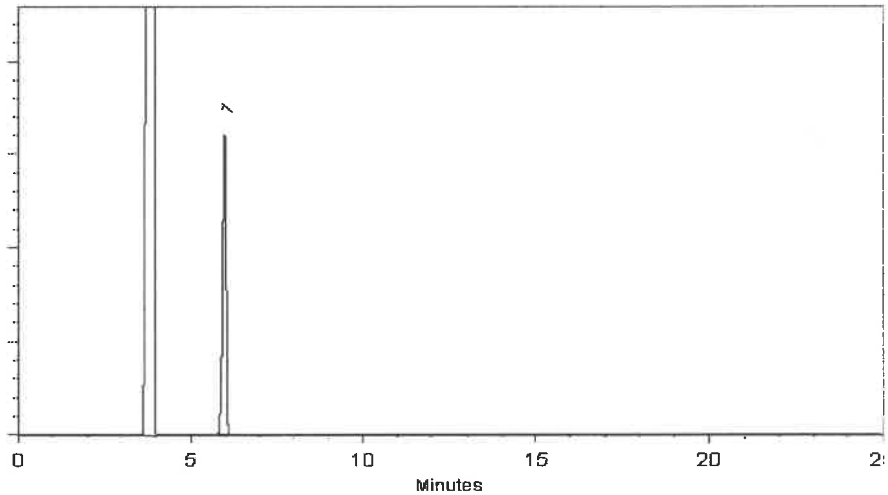
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022 **Balance:** B442140311

Marlina Cowan - Operations Tech I

Date Passed: 21-Feb-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Catalog No. : 30470 **Lot No.:** A0191703

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butanol (TBA)		50,122.0 µg/mL	+/- 293.4753	µg/mL	Gravimetric
	CAS # 75-65-0	(Lot 101619K21F-1)		+/- 1,073.6797	µg/mL	Unstressed
	Purity 99%			+/- 1,104.8612	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

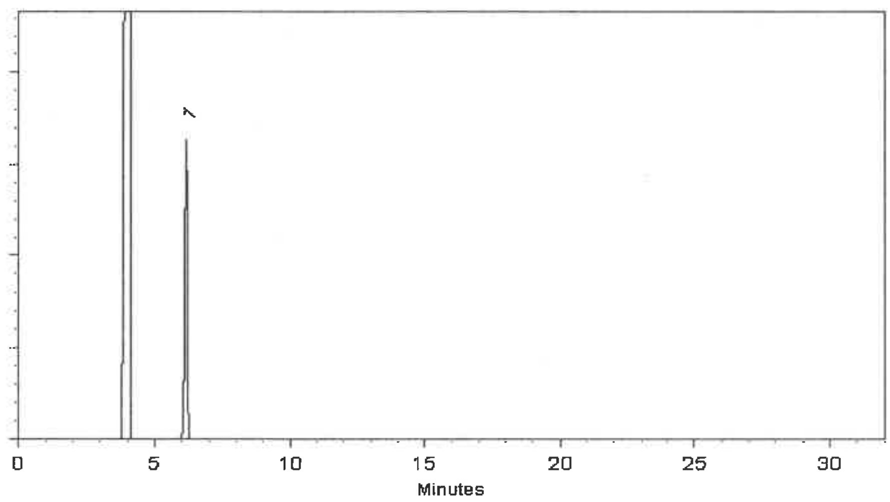
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I	Date Mixed:	15-Nov-2022	Balance:	1127510105	
Jennifer Pollino - Operations Tech III - ARM QC	Date Passed:	17-Nov-2022			

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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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. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

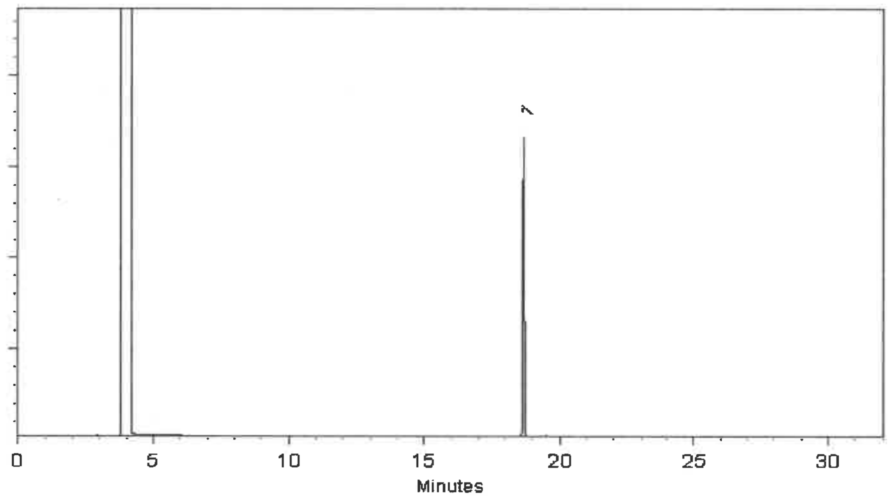
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I **Date Mixed:** 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 21-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

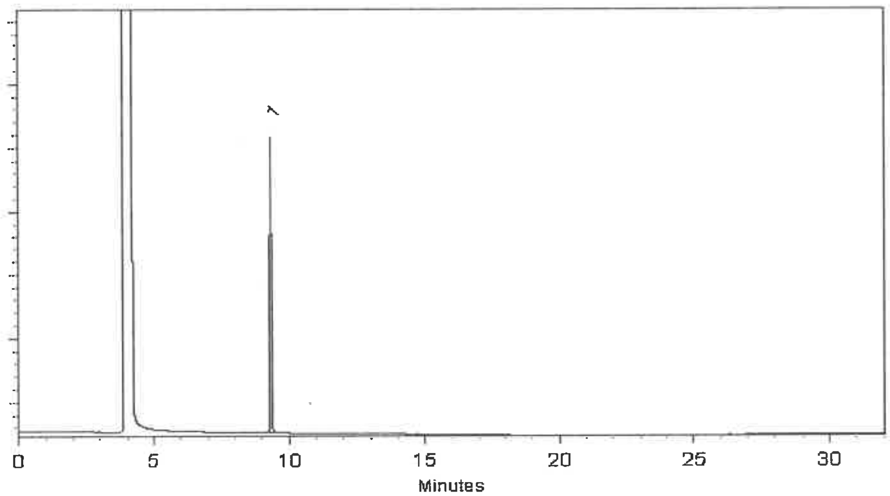
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician **Date Mixed:** 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC **Date Passed:** 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

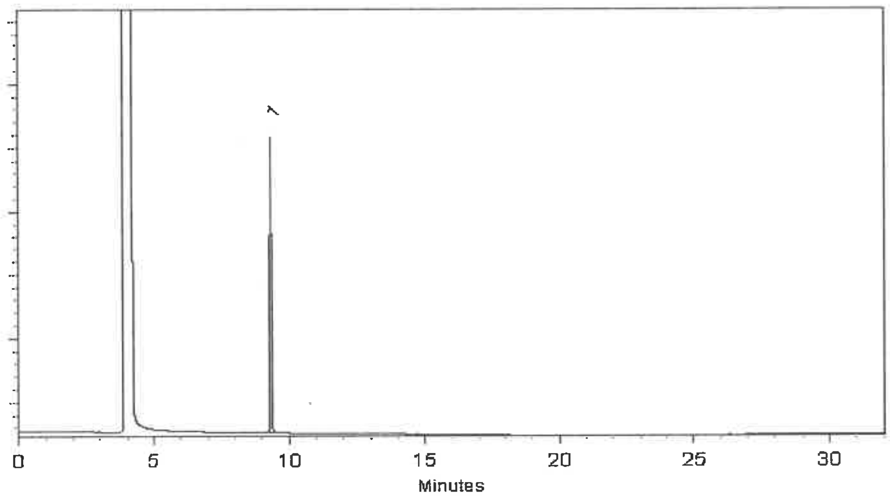
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Tom Suckar - Mix Technician | **Date Mixed:** 29-Dec-2022 | **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC | **Date Passed:** 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA 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.:** A0193887

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 : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

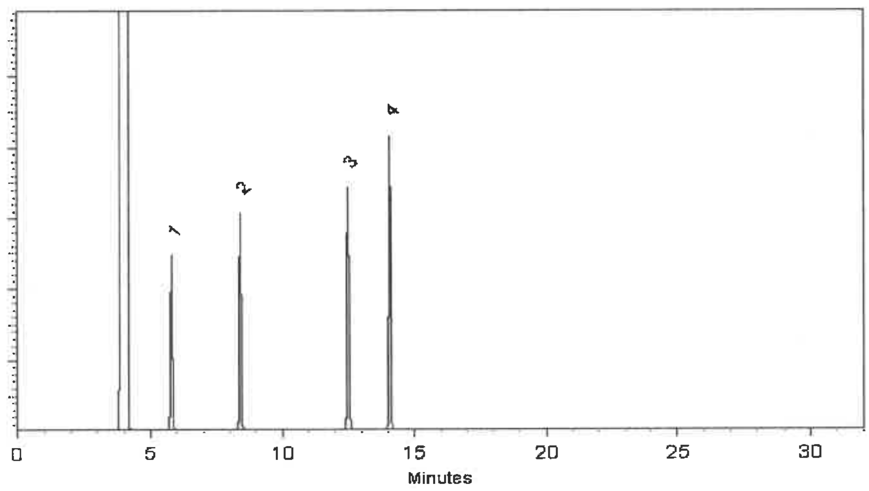
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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Catalog No. : 30006 **Lot No.:** A0193887

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 : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

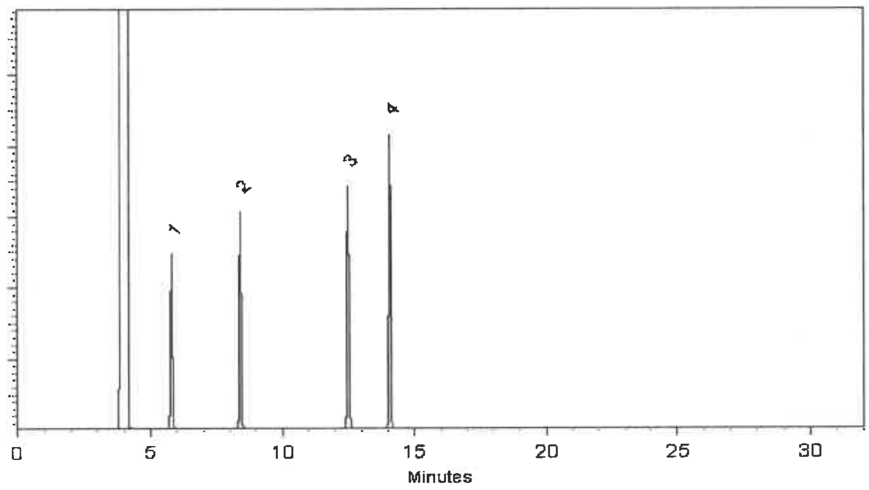
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0194279

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

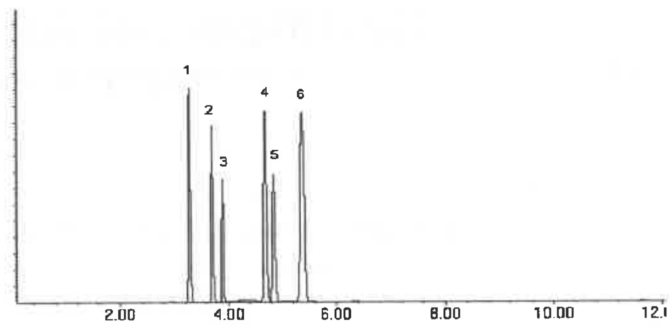
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Catalog No. : 30042 **Lot No.:** A0194279

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

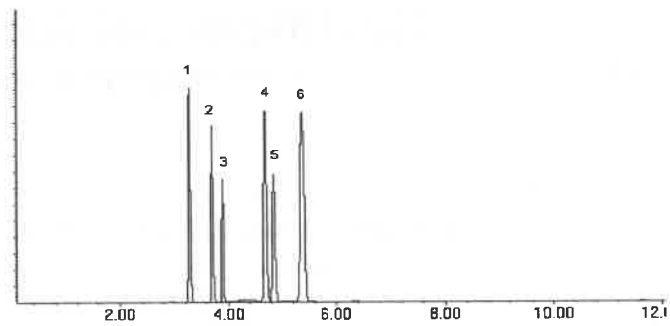
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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Tom Suckar - Mix Technician | **Date Mixed:** 03-Feb-2023 | **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC | **Date Passed:** 07-Feb-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Catalog No. : 30489 **Lot No.:** A0196115

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,013.7 µg/mL	+/- 69.6015
2	Vinyl acetate	108-05-4	RD220630	99%	2,020.0 µg/mL	+/- 69.8205
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,014.0 µg/mL	+/- 69.6131
5	Propyl acetate	109-60-4	TFFKL	99%	2,014.7 µg/mL	+/- 69.6361
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.0 µg/mL	+/- 69.6131
7	Amyl acetate	628-63-7	41325/1	97%	2,016.3 µg/mL	+/- 69.6928

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

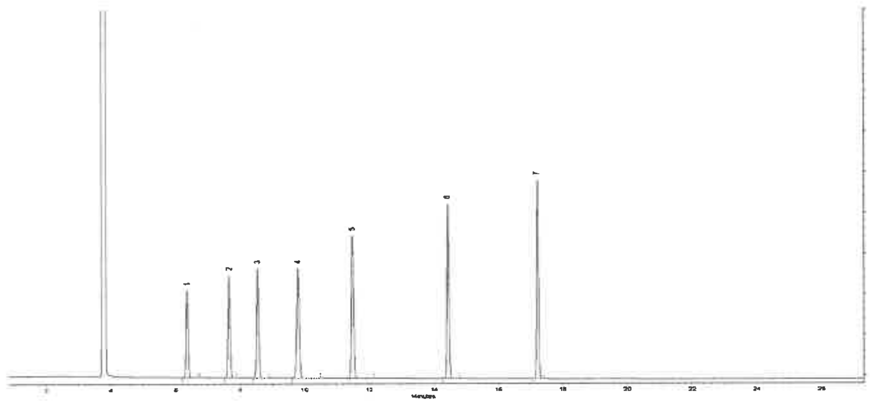
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Bethany Lowery - Operations Tech I

Date Mixed: 21-Mar-2023 **Balance Serial #** B251644995

John Lidgett

John Lidgett - AD Chemist

Date Passed: 29-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0196115

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,013.7 µg/mL	+/- 69.6015
2	Vinyl acetate	108-05-4	RD220630	99%	2,020.0 µg/mL	+/- 69.8205
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,014.0 µg/mL	+/- 69.6131
5	Propyl acetate	109-60-4	TFFKL	99%	2,014.7 µg/mL	+/- 69.6361
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.0 µg/mL	+/- 69.6131
7	Amyl acetate	628-63-7	41325/1	97%	2,016.3 µg/mL	+/- 69.6928

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

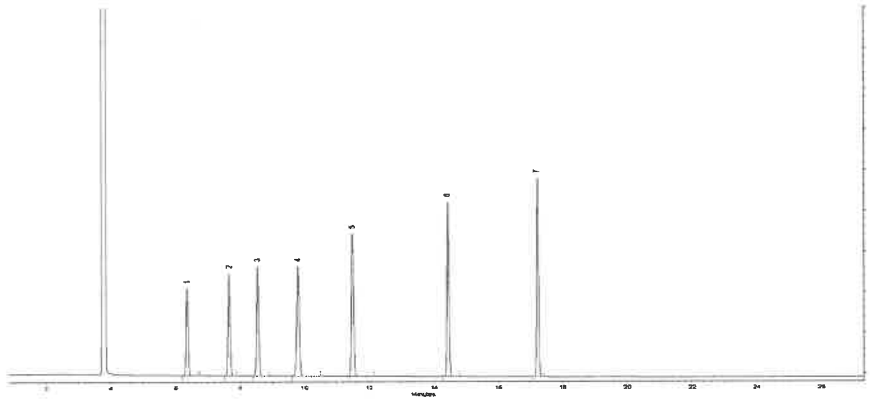
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery - Operations Tech I

Date Mixed: 21-Mar-2023 **Balance Serial #** B251644995

John Lidgett

John Lidgett - AD Chemist

Date Passed: 29-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)		Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0	µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0	µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0	µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0	µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0197644

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2030 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

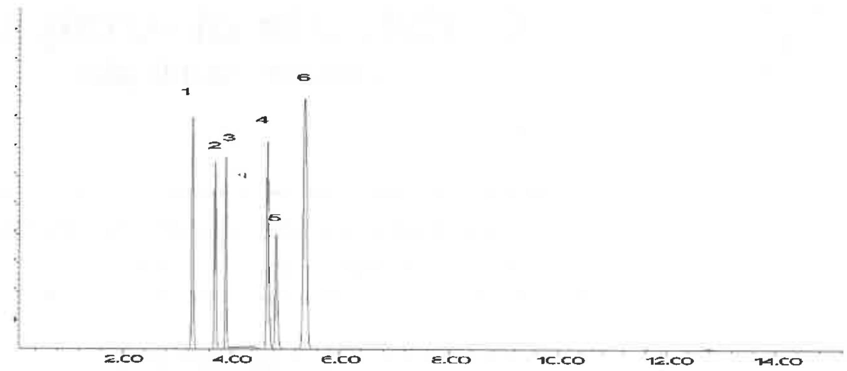
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0199224

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)		Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,015.0	µg/mL	+/- 69.6476
2	Vinyl acetate	108-05-4	RD220630	99%	2,014.3	µg/mL	+/- 69.6246
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,012.7	µg/mL	+/- 69.5670
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,017.0	µg/mL	+/- 69.7168
5	Propyl acetate	109-60-4	KLOBM	99%	2,007.7	µg/mL	+/- 69.3942
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.3	µg/mL	+/- 69.6246
7	Amyl acetate	628-63-7	41325/1	97%	2,012.1	µg/mL	+/- 69.5475

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

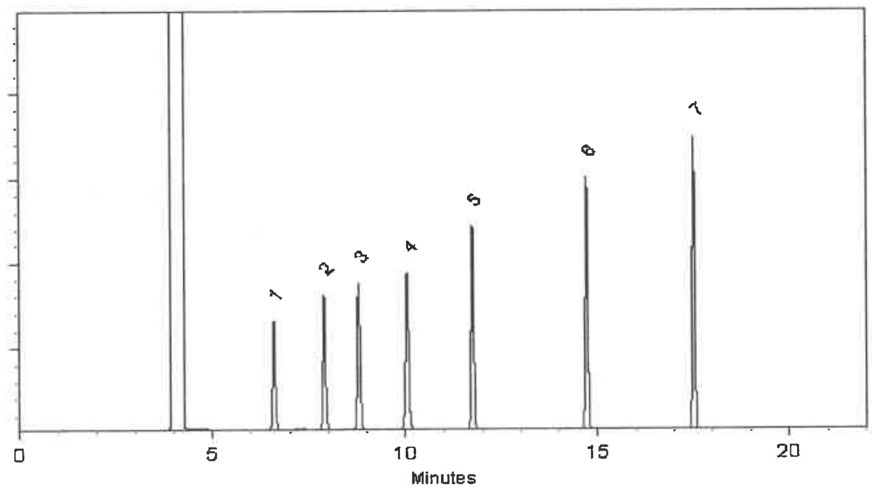
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 22-Jun-2023

Balance Serial # B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)		Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5	µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0	µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7	µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0	µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

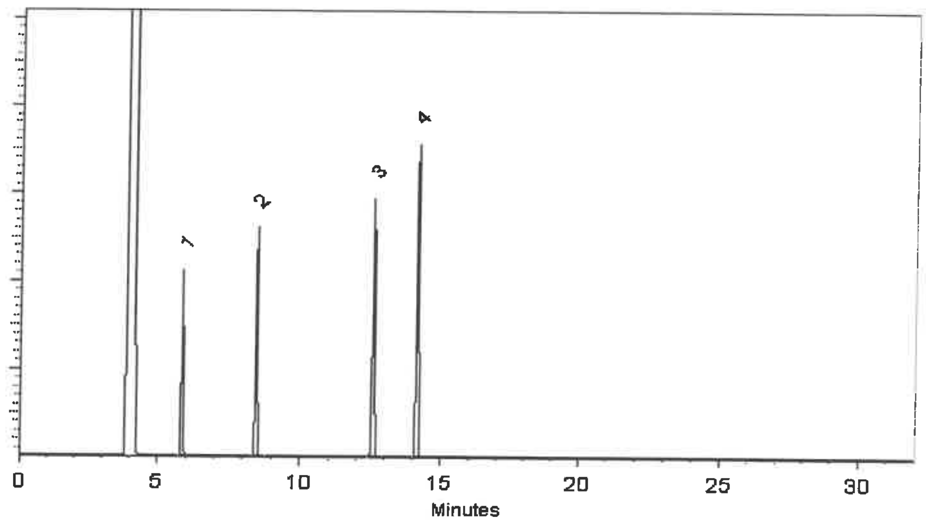
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0μm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

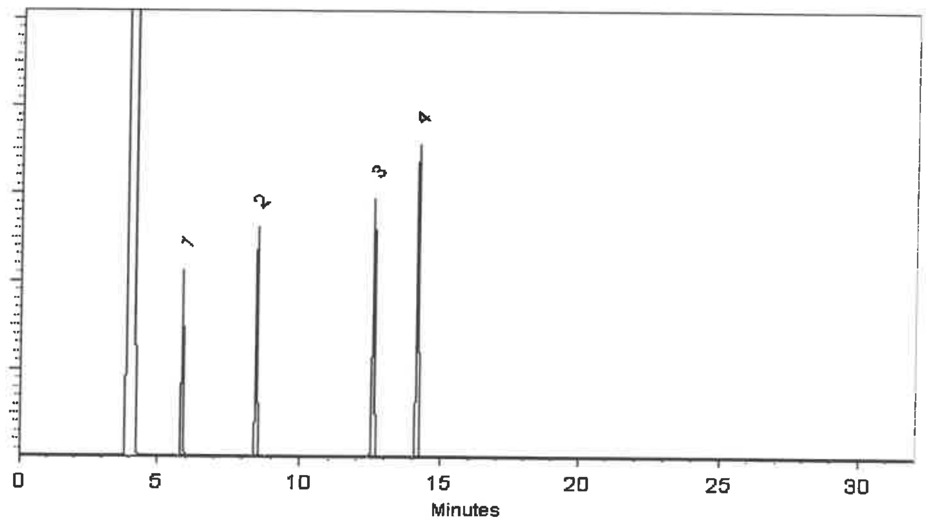
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1μl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I — **Date Mixed:** 09-Aug-2023 — **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC — **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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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.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

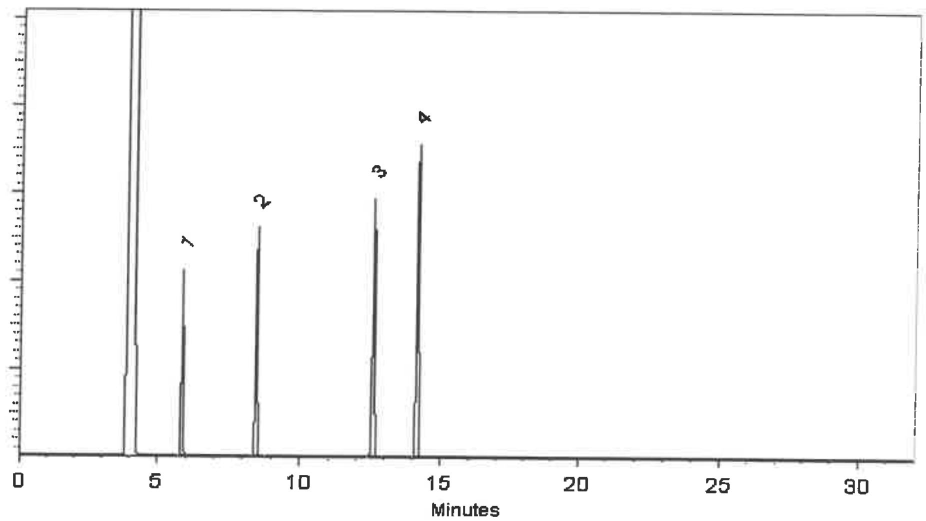
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0205177

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RP231030CTH	98%	8,047.8 µg/mL	+/- 278.1675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

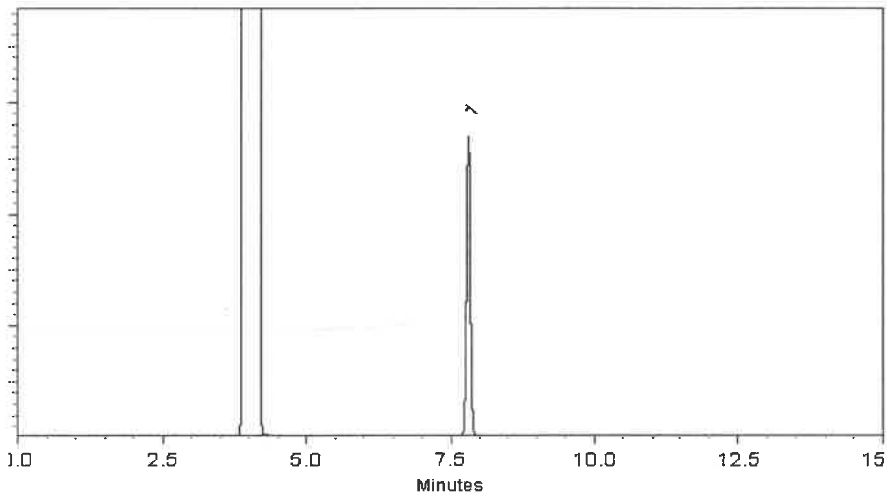
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0205179

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

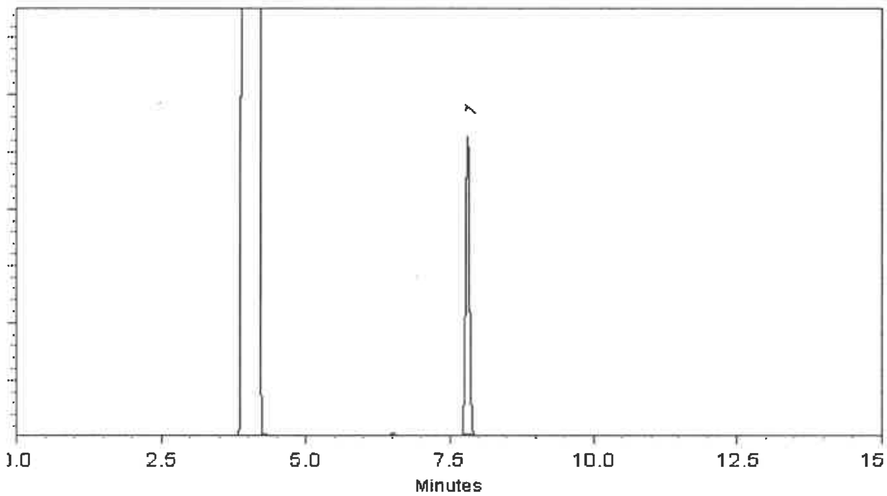
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Daniel Wasson - Operations Tech I **Date Mixed:** 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 11-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0205179

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

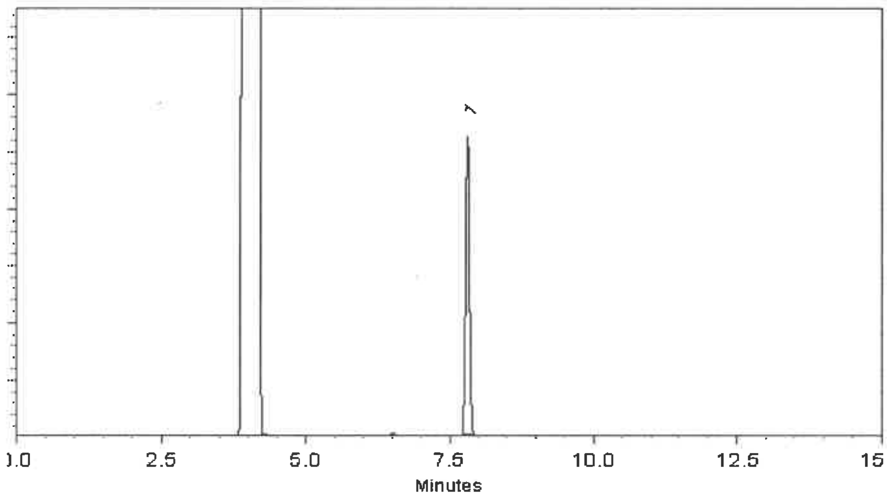
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Daniel Wasson - Operations Tech I   **Date Mixed:** 06-Dec-2023   **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC   **Date Passed:** 11-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I **Date Mixed:** 11-Apr-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 070122
Description: Bromochloromethane

Solvent: Methanol
Lot# EC592-US

Expiration Date: 070127
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 25.0

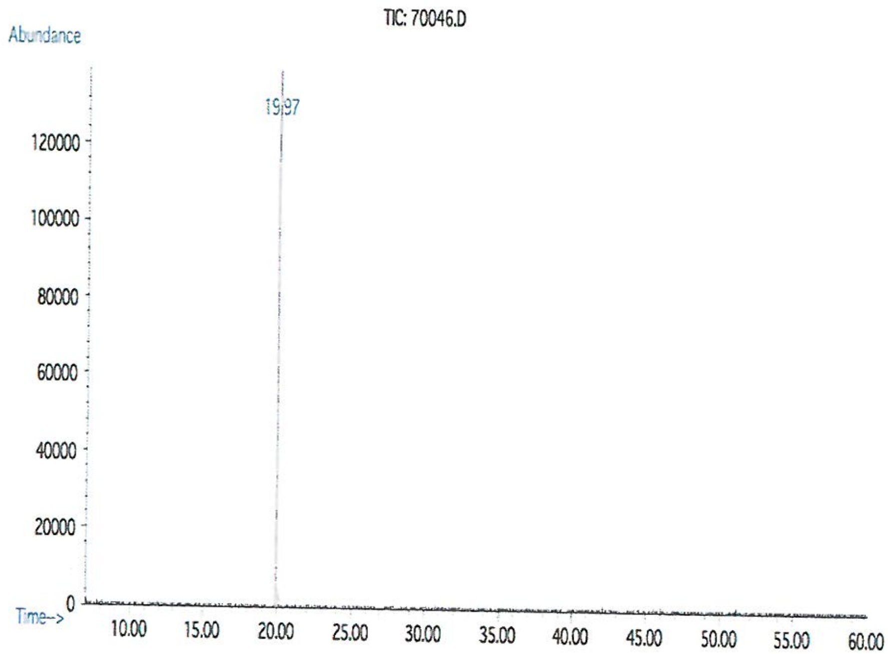
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

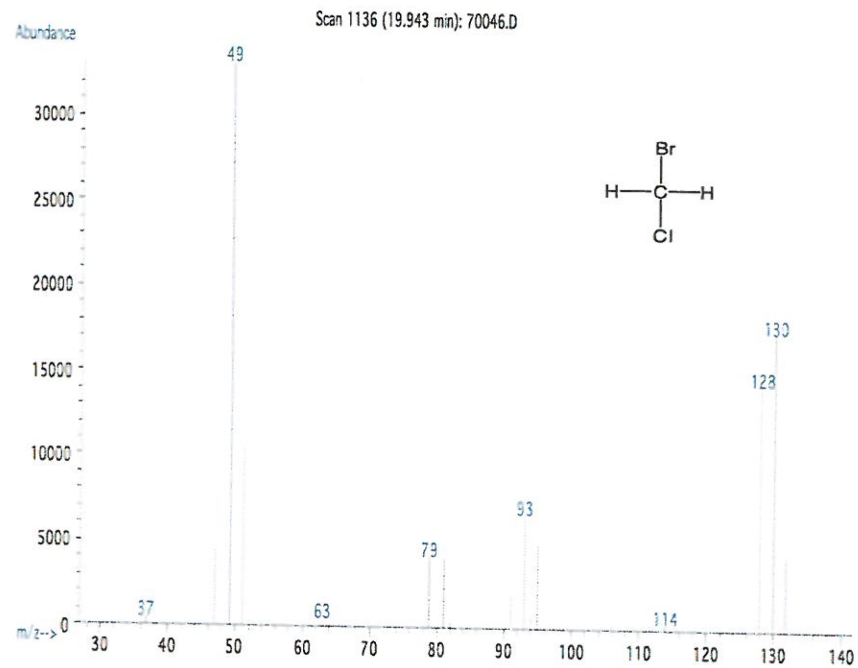
Gabriel Helland		070122
Formulated By:	Gabriel Helland	DATE
Pedro Rentas		070122
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg

SDS Information (Solvent Safety Info. On Attached pg.)

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).

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 112921
Description: Universal VOA Megamix
69 components
Expiration Date: 112924
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 100.0

5E-05 Balance Uncertainty
0.012 Flask Uncertainty

Solvent(s): Methanol — Lot# EA899-USQ2

Formulated By: Prashant Chauhan — 112921 DATE
Reviewed By: Pedro L. Rentas — 112921 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)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	060812	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20032	2001.1	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	0.20203	0.20222	2001.9	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCD9604	NA	NA	NA	2000	100	0.2	NA	0.20001	0.20015	2001.4	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14716EF	NA	NA	NA	2000	95	0.2	NA	0.21054	0.21060	2000.6	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	0.20726	0.20735	2000.8	8.4	110-57-6	N/A	N/A
6.	Diethyl ether (Ethyl ether)	(0153)	SHBK1916	NA	NA	NA	2000	99.9	0.2	NA	0.20023	0.20025	2000.2	8.1	60-29-7	400ppm (1200mg/m3/8H)	orl-rat 1215mg/kg
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20208	2000.5	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0469)	SHBF6716V	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20110	2000.8	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	0.20101	0.20122	2002.0	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	0.20203	0.20211	2000.8	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20026	2000.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20046	2002.4	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	0.20203	0.20231	2002.8	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20556	0.20562	2000.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20409	0.20412	2000.3	8.2	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20213	2001.0	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	051121	0.05	5.00	40015.4	2000	NA	NA	0.017	NA	NA	2000.7	18.4	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	051121	0.05	5.00	40042.8	2000	NA	NA	0.017	NA	NA	2002.0	18.4	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	051121	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	2000.1	18.4	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	051121	0.05	5.00	40009.5	2000	NA	NA	0.017	NA	NA	2000.3	18.4	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	051121	0.05	5.00	40021.1	2000	NA	NA	0.017	NA	NA	2001.0	18.4	75-09-2	500 ppm	orl-rat 620mg/kg
22.	1,1-Dichloroethene	32251	070721	0.10	10.00	20014.9	2000	NA	NA	0.042	NA	NA	2001.4	19.3	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	2000.1	19.3	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	2000.0	19.2	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	2000.1	19.2	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	2000.1	19.3	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	2000.0	19.3	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	2000.1	19.3	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	010419	0.10	10.00	20002.2	2000	NA	NA	0.042	NA	NA	2000.1	19.3	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	2000.1	19.3	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	102821	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	102821	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.5	18.4	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	102821	0.05	5.00	40004.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	102821	0.05	5.00	40016.9	2000	NA	NA	0.017	NA	NA	2000.7	18.4	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	102821	0.05	5.00	40003.9	2000	NA	NA	0.017	NA	NA	2000.1	18.4	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	102821	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.2	26.1	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	102821	0.05	5.00	40013.7	2000	NA	NA	0.017	NA	NA	2000.6	18.4	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	102821	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.5	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	102821	0.05	5.00	40014.0	2000	NA	NA	0.017	NA	NA	2000.6	26.4	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	102821	0.05	5.00	40010.9	2000	NA	NA	0.017	NA	NA	2000.4	18.4	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	102821	0.05	5.00	40015.0	2000	NA	NA	0.017	NA	NA	2000.7	18.4	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	102821	0.05	5.00	40011.7	2000	NA	NA	0.017	NA	NA	2000.5	18.4	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	102821	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	2000.1	18.4	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	102821	0.05	5.00	40005.2	2000	NA	NA	0.017	NA	NA	2000.2	18.4	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	020821	0.05	5.00	40019.0	2000	NA	NA	0.017	NA	NA	2000.9	18.4	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	020821	0.05	5.00	40019.8	2000	NA	NA	0.017	NA	NA	2000.9	18.4	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	020821	0.05	5.00	40000.9	2000	NA	NA	0.017	NA	NA	1999.9	18.4	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	020821	0.05	5.00	40056.4	2000	NA	NA	0.017	NA	NA	2002.7	18.4	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	020821	0.05	5.00	40005.1	2000	NA	NA	0.017	NA	NA	2000.2	18.3	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	020821	0.05	5.00	40022.8	2000	NA	NA	0.017	NA	NA	2001.0	18.4	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	020821	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	020821	0.05	5.00	40027.4	2000	NA	NA	0.017	NA	NA	2001.3	18.4	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	020821	0.05	5.00	40012.4	2000	NA	NA	0.017	NA	NA	2000.5	18.4	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	020821	0.05	5.00	40011.5	2000	NA	NA	0.017	NA	NA	2000.5	18.5	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	020821	0.05	5.00	40021.8	2000	NA	NA	0.017	NA	NA	2001.0	18.4	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	022521	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.2	18.4	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	022521	0.05	5.00	40011.7	2000	NA	NA	0.017	NA	NA	2000.5	18.4	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	022521	0.05	5.00	40009.0	2000	NA	NA	0.017	NA	NA	2000.4	18.4	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	022521	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	022521	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.9	18.4	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	022521	0.05	5.00	40004.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	022521	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	2000.1	18.4	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	022521	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	022521	0.05	5.00	40007.4	2000	NA	NA	0.017	NA	NA	2000.3	18.4	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	022521	0.05	5.00	40004.6	2000	NA	NA	0.017	NA	NA	2000.1	18.4	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	022521	0.05	5.00	40003.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	022521	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

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- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2022

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

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Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (μeq/g)	≤ 0.3	0.2
Titrable Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ J.T.Baker®

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SHIPPING DOCUMENTS

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phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
09/03/2024	318988

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

Ship To

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/5/2024
9:50

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0924	8259-04
1	1	0	PT-HG-WP	WP Mercury	WP0924	8259-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0924	8259-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0924	8259-06
1	1	0	PT-DEM-WP	WP Demand	WP0924	8259-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0924	8259-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0924	8259-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0924	8259-72
1	1	0	PT-SOL-WP	WP Solids	WP0924	8259-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0924	8259-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0924	8259-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0924	8259-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0924	8259-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0924	8259-13
1	1	0	PT-PH-WP	WP pH	WP0924	8259-15
1	1	0	PT-CN-WP	WP Cyanide	WP0924	8259-14
1	1	0	PT-PHEN-WP	WP Phenolics	WP0924	8259-16

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For terms and conditions of your order, please visit:
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ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

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240802-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-S2-WP	WP Sulfide	WP0924	8259-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0924	8259-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0924	8259-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0924	8259-20
1	1	0	PT-SIO2-WP	WP Silica	WP0924	8259-21
1	1	0	PT-COL-WP	WP Color	WP0924	8259-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0924	8259-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0924	8259-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0924	8259-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0924	8259-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0924	8259-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0924	8259-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0924	8259-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0924	8259-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R39151	R39151-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R39151	R39151-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R39151	R39151-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R39151	R39151-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R39151	R39151-98
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R39151	R39151-108

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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