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Cover Page

Order ID : Q2795

Project ID : Girard school

Client : Kleinfelder

Lab Sample Number	Client Sample Number
Q2795-01	COMP-1
Q2795-02	COMP-2
Q2795-03	COMP-3

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

Signature : _____

Date: 8/12/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Kleinfelder
Project Name: Girard school
Project # N/A
Order ID # Q2795
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 08/07/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_W 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 were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:

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

Trip Blank was not provided with this set of samples.

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

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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_____

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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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2795**

	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: **MAHESH PATEL** **Date:** **08/12/2025**

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LAB CHRONICLE

OrderID:	Q2795	**OrderDate:**	8/7/2025 11:57:00 AM
Client:	Kleinfelder	**Project:**	Girard School - PA
Contact:	Mark Warchol	**Location:**	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2795-01	**COMP-1**	**SOIL**			**08/06/25**			**08/07/25**
			VOCMS Group1	8260D			08/07/25	
Q2795-02	**COMP-2**	**SOIL**			**08/06/25**			**08/07/25**
			VOCMS Group1	8260D			08/07/25	
Q2795-03	**COMP-3**	**SOIL**			**08/06/25**			**08/07/25**
			VOCMS Group1	8260D			08/07/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2795

Client: Kleinfelder

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:								
				0				

Total Voc :

Total Concentration:

QC
SUMMARY

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Surrogate Summary

SDG No.: Q2795

Client: Kleinfelder

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2795-01	COMP-1	1,2-Dichloroethane-d4	50	50.8	102		63	155
		Dibromofluoromethane	50	49.3	99		70	134
		Toluene-d8	50	48.2	96		74	123
		4-Bromofluorobenzene	50	46.5	93		17	146
Q2795-02	COMP-2	1,2-Dichloroethane-d4	50	51.0	102		63	155
		Dibromofluoromethane	50	46.3	93		70	134
		Toluene-d8	50	44.7	89		74	123
		4-Bromofluorobenzene	50	45.4	91		17	146
Q2795-03	COMP-3	1,2-Dichloroethane-d4	50	53.3	107		63	155
		Dibromofluoromethane	50	48.5	97		70	134
		Toluene-d8	50	46.4	93		74	123
		4-Bromofluorobenzene	50	46.5	93		17	146
VW0807SBL01	VW0807SBL01	1,2-Dichloroethane-d4	50	50.1	100		63	155
		Dibromofluoromethane	50	47.2	94		70	134
		Toluene-d8	50	45.7	91		74	123
		4-Bromofluorobenzene	50	44.0	88		17	146
VW0807SBS01	VW0807SBS01	1,2-Dichloroethane-d4	50	50.1	100		63	155
		Dibromofluoromethane	50	52.0	104		70	134
		Toluene-d8	50	52.1	104		74	123
		4-Bromofluorobenzene	50	51.1	102		17	146
VW0807SBSD0	VW0807SBSD01	1,2-Dichloroethane-d4	50	48.0	96		63	155
		Dibromofluoromethane	50	51.1	102		70	134
		Toluene-d8	50	51.3	103		74	123
		4-Bromofluorobenzene	50	50.5	101		17	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2795 **Analytical Method:** SW8260D

Client: Kleinfelder **Datafile :** VW032038.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0807SBS01	cis-1,2-Dichloroethene	20	19.4	ug/Kg	97			82	123	
	1,1,1-Trichloroethane	20	18.5	ug/Kg	93			80	126	
	Benzene	20	20.1	ug/Kg	101			84	121	
	Trichloroethene	20	20.3	ug/Kg	102			83	122	
	Toluene	20	20.5	ug/Kg	103			83	122	
	Ethyl Benzene	20	19.8	ug/Kg	99			82	124	
	m/p-Xylenes	40	39.4	ug/Kg	99			83	124	
	o-Xylene	20	19.8	ug/Kg	99			83	123	
	Isopropylbenzene	20	18.4	ug/Kg	92			82	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2795 **Analytical Method:** SW8260D

Client: Kleinfelder **Datafile :** VW032039.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0807SBSD01	cis-1,2-Dichloroethene	20	19.5	ug/Kg	98	1		82	123	20
	1,1,1-Trichloroethane	20	18.9	ug/Kg	95	2		80	126	20
	Benzene	20	20.3	ug/Kg	102	1		84	121	20
	Trichloroethene	20	20.4	ug/Kg	102	0		83	122	20
	Toluene	20	20.5	ug/Kg	103	0		83	122	20
	Ethyl Benzene	20	20.1	ug/Kg	101	2		82	124	20
	m/p-Xylenes	40	41.5	ug/Kg	104	5		83	124	20
	o-Xylene	20	19.9	ug/Kg	100	1		83	123	20
	Isopropylbenzene	20	19.3	ug/Kg	97	5		82	124	20

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VOLATILE METHOD BLANK SUMMARY

Client ID: VW0807SBL01

Lab Name: Alliance | Contract: POWE02

Lab Code: ACE | SDG NO.: Q2795

Lab File ID: VW032037.D | Lab Sample ID: VW0807SBL01

Date Analyzed: 08/07/2025 | Time Analyzed: 11:10

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

Instrument ID: MSVOA_W

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW0807SBS01	VW0807SBS01	VW032038.D	08/07/2025
VW0807SBSD01	VW0807SBSD01	VW032039.D	08/07/2025
COMP-1	Q2795-01	VW032042.D	08/07/2025
COMP-2	Q2795-02	VW032043.D	08/07/2025
COMP-3	Q2795-03	VW032044.D	08/07/2025

COMMENTS:

Raw Data: **VW031890.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: POWE02
Lab Code: ACE
SDG NO.: Q2795
Lab File ID: VW031890.D
BFB Injection Date: 07/22/2025
Instrument ID: MSVOA_W
BFB Injection Time: 08:14
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	51.2
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	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	67.1
175	5.0 - 9.0% of mass 174	4.8 (7.1) 1
176	95.0 - 101.0% of mass 174	63.8 (95) 1
177	5.0 - 9.0% of mass 176	4 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VW031891.D	07/22/2025	09:05
VSTDICC010	VSTDICC010	VW031892.D	07/22/2025	09:37
VSTDICC020	VSTDICC020	VW031893.D	07/22/2025	10:17
VSTDICCC050	VSTDICCC050	VW031894.D	07/22/2025	10:39
VSTDICC100	VSTDICC100	VW031895.D	07/22/2025	11:18
VSTDICC150	VSTDICC150	VW031896.D	07/22/2025	12:00

Raw Data: **VW032035.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: POWE02

Lab Code: ACE | SDG NO.: Q2795

Lab File ID: VW032035.D | BFB Injection Date: 08/07/2025

Instrument ID: MSVOA_W | BFB Injection Time: 08:05

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	51.2
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	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	64.8
175	5.0 - 9.0% of mass 174	4.8 (7.5) 1
176	95.0 - 101.0% of mass 174	62.4 (96.3) 1
177	5.0 - 9.0% of mass 176	4 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VW032036.D	08/07/2025	10:08
VW0807SBL01	VW0807SBL01	VW032037.D	08/07/2025	11:10
VW0807SBS01	VW0807SBS01	VW032038.D	08/07/2025	12:20
VW0807SBSD01	VW0807SBSD01	VW032039.D	08/07/2025	12:43
COMP-1	Q2795-01	VW032042.D	08/07/2025	14:04
COMP-2	Q2795-02	VW032043.D	08/07/2025	14:26
COMP-3	Q2795-03	VW032044.D	08/07/2025	14:48

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: POWE02

Lab Code: ACE SDG NO.: Q2795

Lab File ID: VW032036.D Date Analyzed: 08/07/2025

Instrument ID: MSVOA_W Time Analyzed: 10:08

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	218306	7.96	410147	8.84	372672	11.63
UPPER LIMIT	436612	8.459	820294	9.343	745344	12.129
LOWER LIMIT	109153	7.459	205074	8.343	186336	11.129
EPA SAMPLE NO.						
COMP-1	174583	7.97	355865	8.85	344678	11.63
COMP-2	180542	7.96	382094	8.85	370140	11.64
COMP-3	179400	7.97	378554	8.85	363624	11.63
VW0807SBL01	166168	7.95	366099	8.85	354996	11.63
VW0807SBS01	222702	7.97	401808	8.85	364622	11.63
VW0807SBSD01	226447	7.96	405839	8.85	359768	11.63

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: Alliance Contract: POWE02

Lab Code: ACE SDG NO.: Q2795

Lab File ID: VW032036.D Date Analyzed: 08/07/2025

Instrument ID: MSVOA_W Time Analyzed: 10:08

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

	IS4 AREA #	RT #				
12 HOUR STD	173846	13.556				
UPPER LIMIT	347692	14.056				
LOWER LIMIT	86923	13.056				
EPA SAMPLE NO.						
COMP-1	166074	13.56				
COMP-2	182213	13.56				
COMP-3	171933	13.56				
VW0807SBL01	157487	13.56				
VW0807SBS01	176923	13.56				
VW0807SBSD01	173676	13.56				

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.

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **VW032042.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Kleinfelder	Date Collected:	08/06/25
Project:	Girard School - PA	Date Received:	08/07/25
Client Sample ID:	COMP-1	SDG No.:	Q2795
Lab Sample ID:	Q2795-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.5
Sample Wt/Vol:	5.72 Units: g	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:	Date Analyzed	Prep Batch ID
VW032042.D	1	08/07/25 14:04	VW080725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.79	U	0.79	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	5.30	ug/Kg
71-43-2	Benzene	0.84	U	0.84	5.30	ug/Kg
79-01-6	Trichloroethene	0.86	U	0.86	5.30	ug/Kg
108-88-3	Toluene	0.83	U	0.83	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.71	U	0.71	5.30	ug/Kg
1330-20-7	Total Xylenes	2.17	U	2.17	15.9	ug/Kg
98-82-8	Isopropylbenzene	0.83	U	0.83	5.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	48.2		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		17 - 146	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	175000	7.965			
540-36-3	1,4-Difluorobenzene	356000	8.849			
3114-55-4	Chlorobenzene-d5	345000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	166000	13.556			

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_W\Data\VW080725\
Data File : VW032042.D
Acq On : 07 Aug 2025 14:04
Operator : SY/MD
Sample : Q2795-01
Misc : 5.72g/5mL/MSVOA_W/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
COMP-1

Quant Time: Aug 08 04:09:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	174583	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	355865	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	344678	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	166074	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	134180	50.807	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 101.620%			
35) Dibromofluoromethane	7.898	113	119290	49.331	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 98.660%			
50) Toluene-d8	10.325	98	440808	48.166	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 96.340%			
62) 4-Bromofluorobenzene	12.617	95	163325	46.476	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 92.960%			

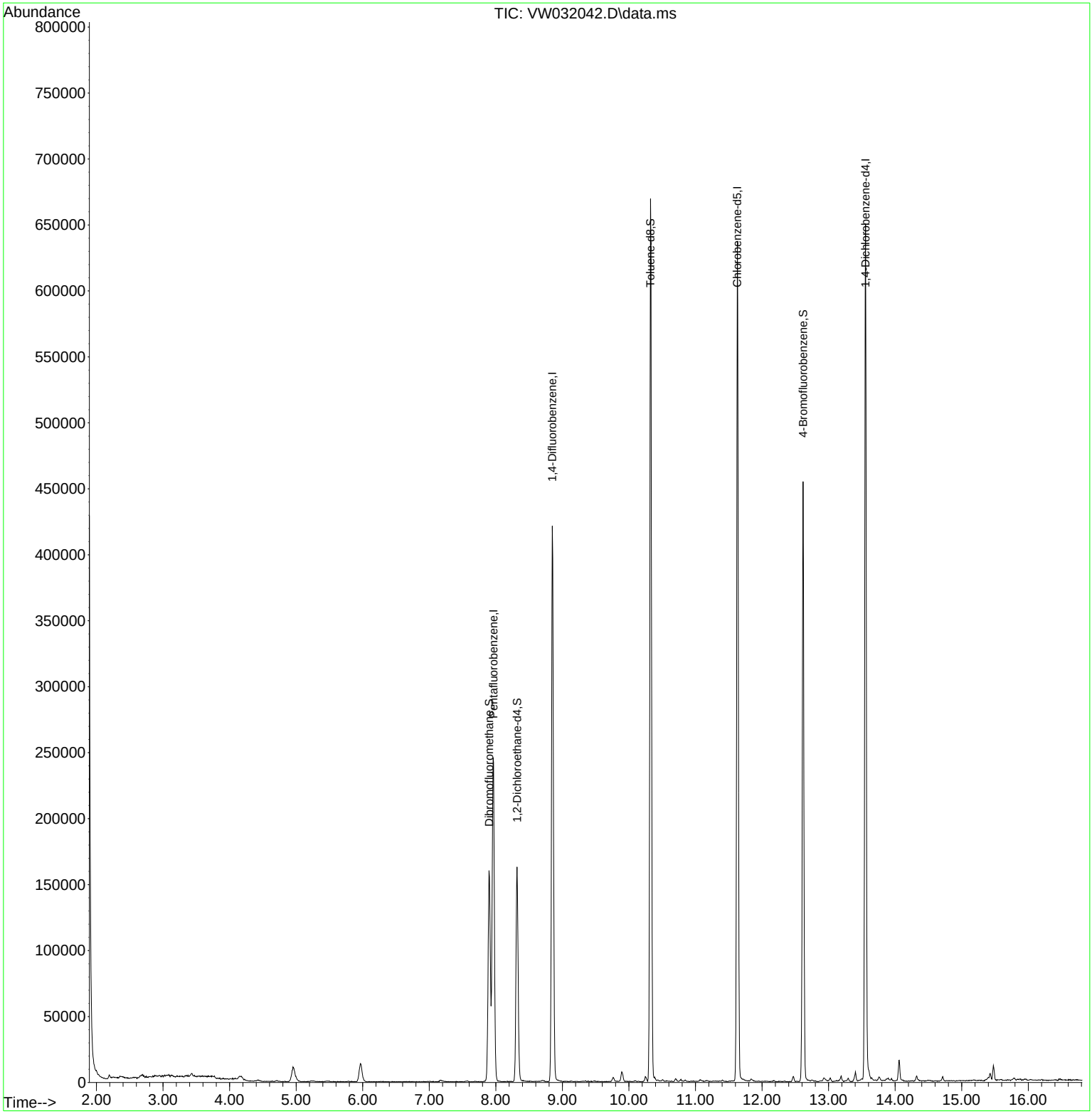
Target Compounds Qvalue

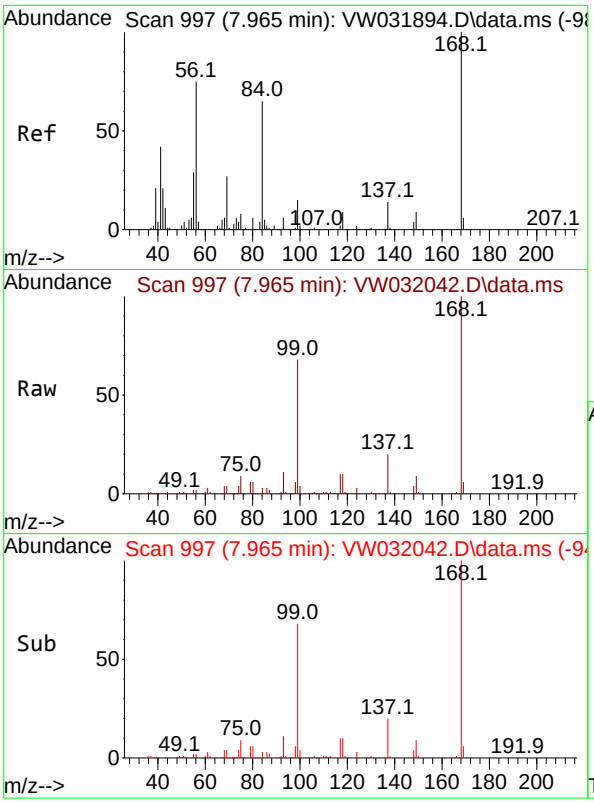
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032042.D
Acq On : 07 Aug 2025 14:04
Operator : SY/MD
Sample : Q2795-01
Misc : 5.72g/5mL/MSVOA_W/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
COMP-1

Quant Time: Aug 08 04:09:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration



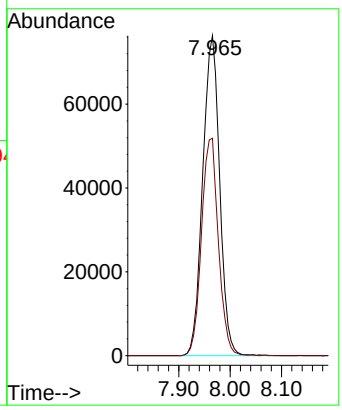


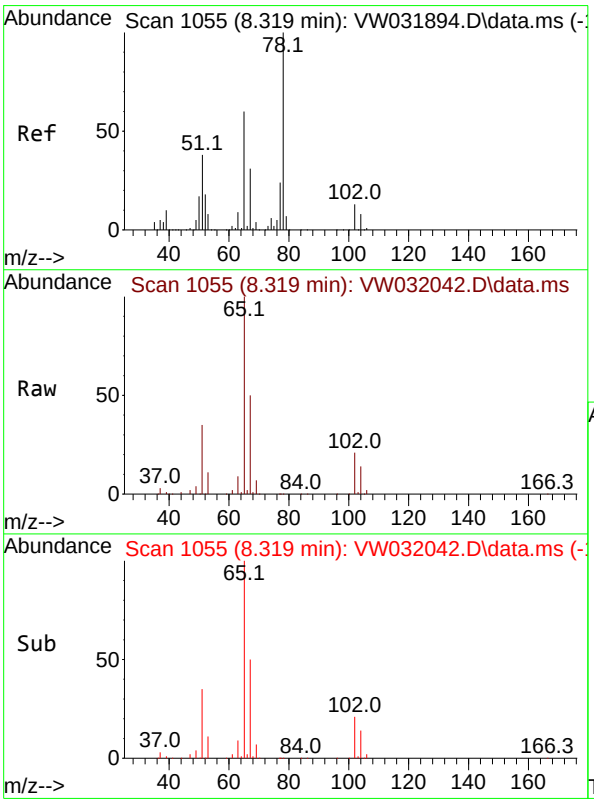
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032042.D
Acq: 07 Aug 2025 14:04

Instrument :
MSVOA_W
ClientSampleId :
COMP-1

Tgt Ion:168 Resp: 174583

Ion	Ratio	Lower	Upper
168	100		
99	67.9	48.2	72.2

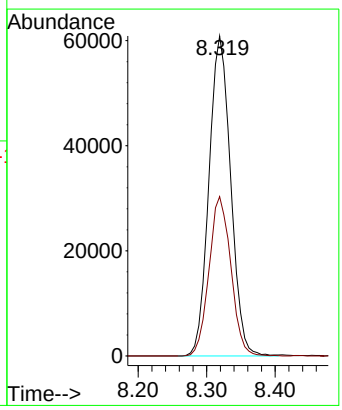


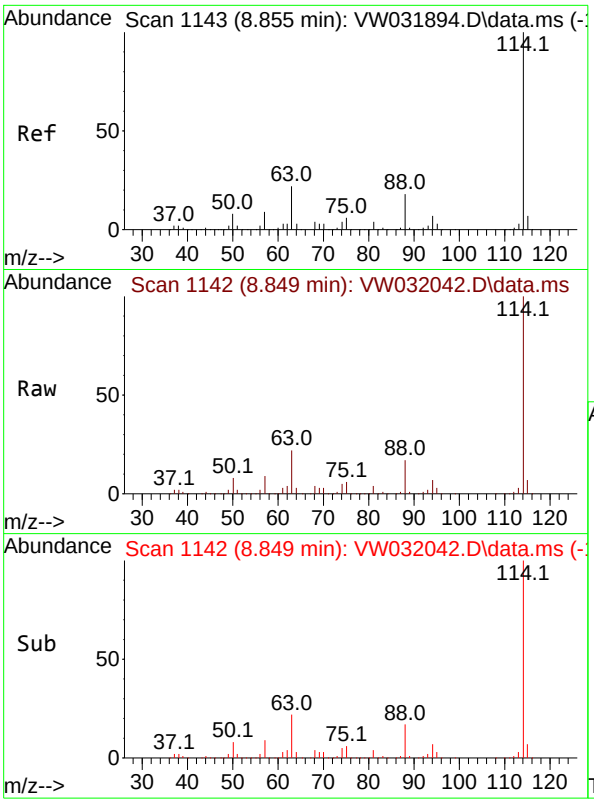


#33
1,2-Dichloroethane-d4
Concen: 50.807 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032042.D
Acq: 07 Aug 2025 14:04

Tgt Ion: 65 Resp: 134180

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	101.4



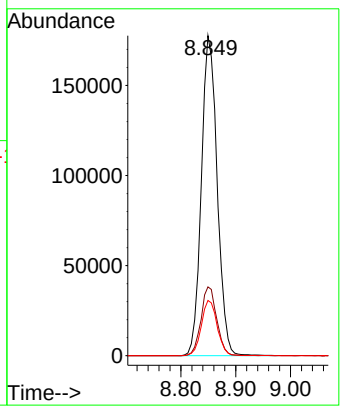


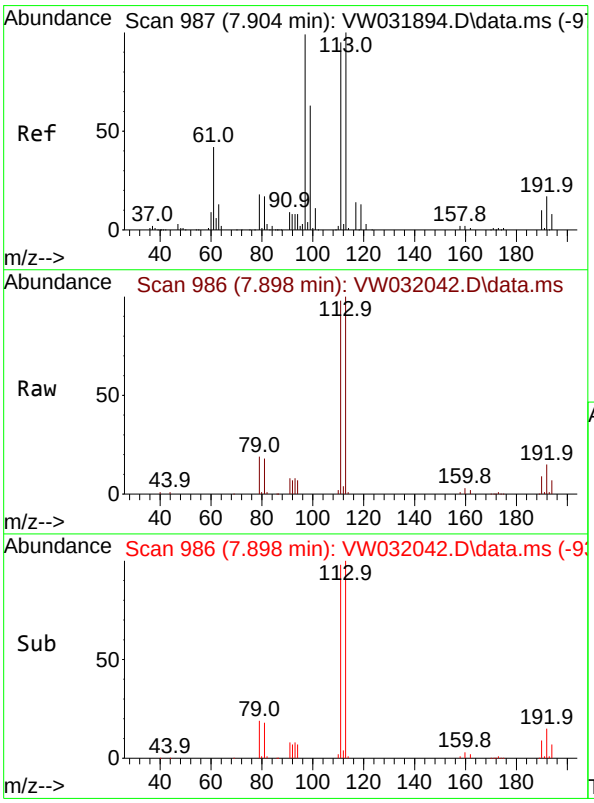
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032042.D
Acq: 07 Aug 2025 14:04

Instrument :
MSVOA_W
ClientSampleId :
COMP-1

Tgt Ion:114 Resp: 355865

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	44.2
88	17.3	0.0	35.6

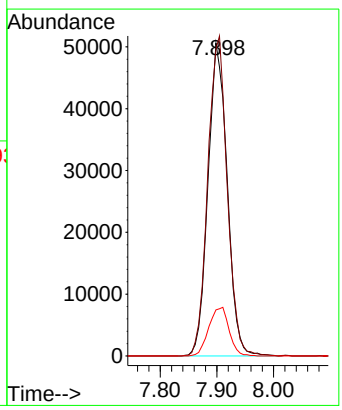


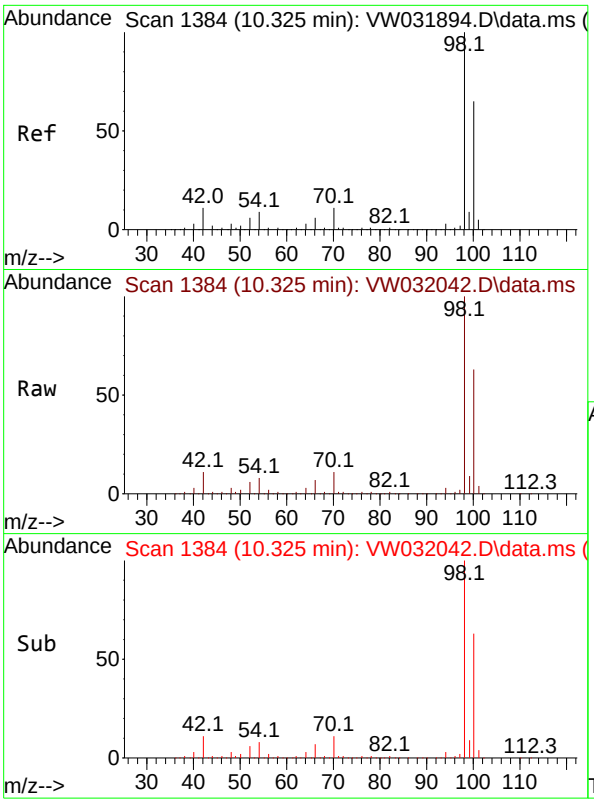


#35
Dibromofluoromethane
Concen: 49.331 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032042.D
Acq: 07 Aug 2025 14:04

Tgt Ion:113 Resp: 119290

Ion	Ratio	Lower	Upper
113	100		
111	103.2	79.9	119.9
192	16.4	12.6	19.0



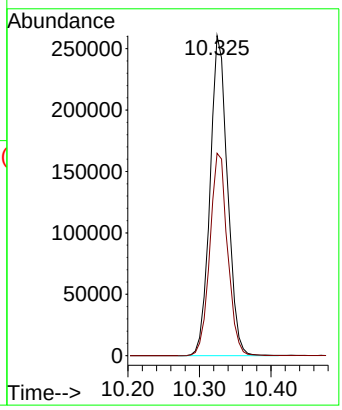


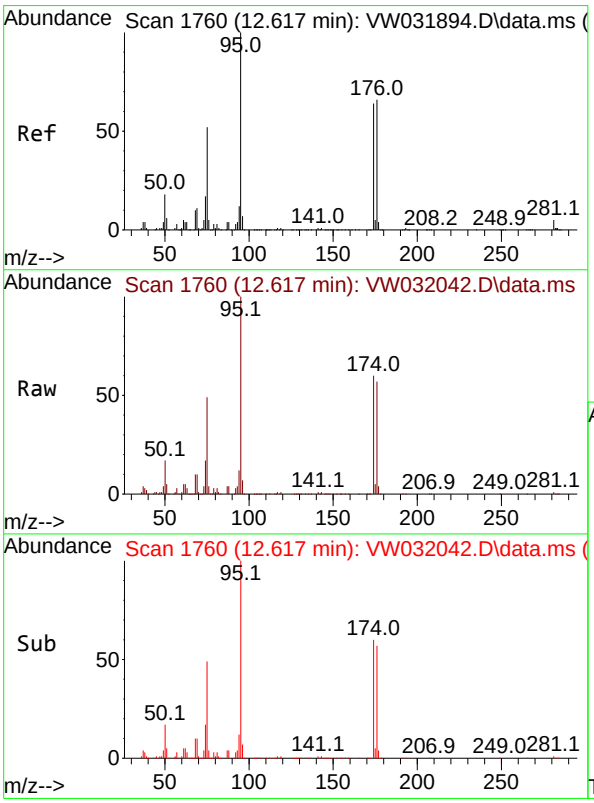
#50
Toluene-d8
Concen: 48.166 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032042.D
Acq: 07 Aug 2025 14:04

Instrument :
MSVOA_W
ClientSampleId :
COMP-1

Tgt Ion: 98 Resp: 440808

Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.7	77.5

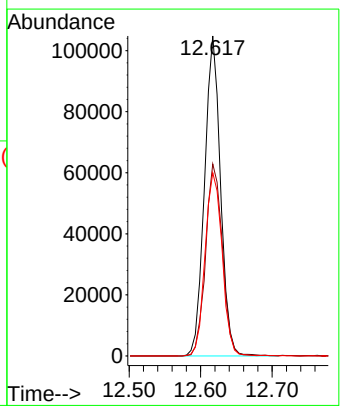


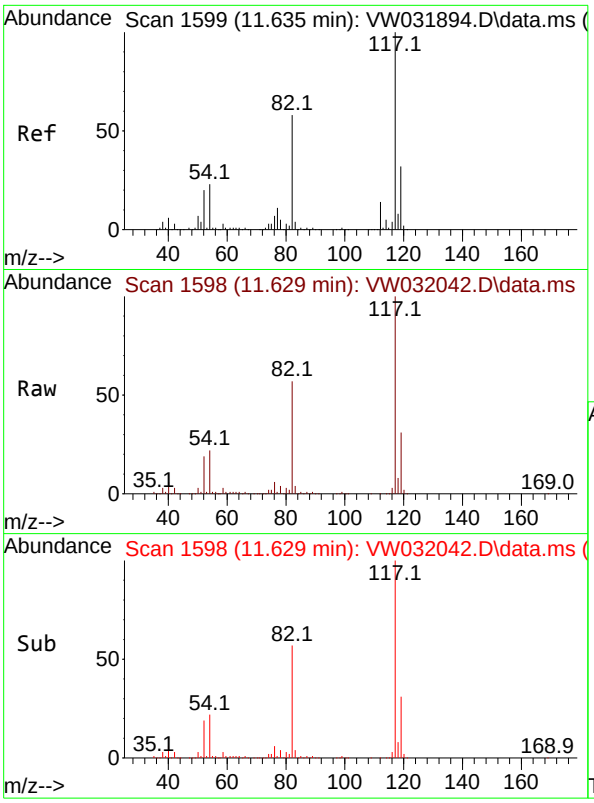


#62
4-Bromofluorobenzene
Concen: 46.476 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032042.D
Acq: 07 Aug 2025 14:04

Tgt Ion: 95 Resp: 163325

Ion	Ratio	Lower	Upper
95	100		
174	62.9	0.0	129.8
176	60.8	0.0	130.4



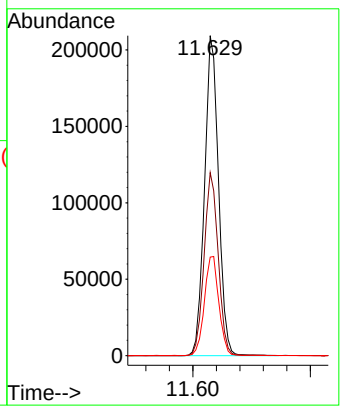


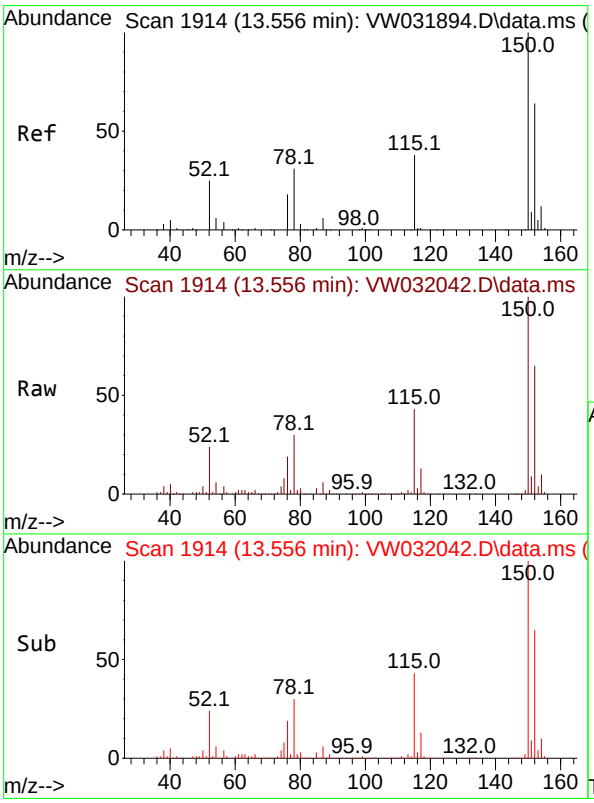
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032042.D
Acq: 07 Aug 2025 14:04

Instrument :
MSVOA_W
ClientSampleId :
COMP-1

Tgt Ion:117 Resp: 344678

Ion	Ratio	Lower	Upper
117	100		
82	57.2	46.5	69.7
119	30.8	25.8	38.6

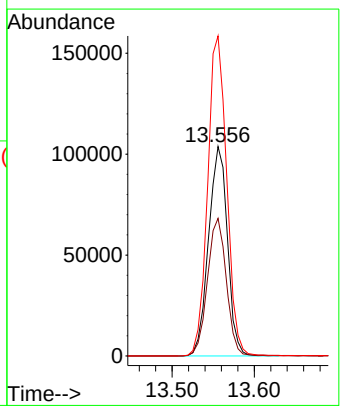




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032042.D
Acq: 07 Aug 2025 14:04

Tgt Ion:152 Resp: 166074

Ion	Ratio	Lower	Upper
152	100		
115	65.6	33.4	100.1
150	153.7	0.0	352.2



Raw Data: **VW032043.D**

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	08/06/25
Project:	Girard School - PA	Date Received:	08/07/25
Client Sample ID:	COMP-2	SDG No.:	Q2795
Lab Sample ID:	Q2795-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.8
Sample Wt/Vol:	5.09 Units: g	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:	Date Analyzed	Prep Batch ID
VW032043.D	1	08/07/25 14:26	VW080725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.91	U	0.91	6.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	6.10	ug/Kg
71-43-2	Benzene	0.96	U	0.96	6.10	ug/Kg
79-01-6	Trichloroethene	0.98	U	0.98	6.10	ug/Kg
108-88-3	Toluene	0.95	U	0.95	6.10	ug/Kg
100-41-4	Ethyl Benzene	0.81	U	0.81	6.10	ug/Kg
1330-20-7	Total Xylenes	2.50	U	2.50	18.3	ug/Kg
98-82-8	Isopropylbenzene	0.95	U	0.95	6.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.0		63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	46.3		70 - 134	93%	SPK: 50
2037-26-5	Toluene-d8	44.7		74 - 123	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.4		17 - 146	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	181000	7.959			
540-36-3	1,4-Difluorobenzene	382000	8.849			
3114-55-4	Chlorobenzene-d5	370000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	182000	13.556			

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_W\Data\VW080725\
Data File : VW032043.D
Acq On : 07 Aug 2025 14:26
Operator : SY/MD
Sample : Q2795-02
Misc : 5.09g/5mL/MSVOA_W/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
COMP-2

Quant Time: Aug 08 04:09:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

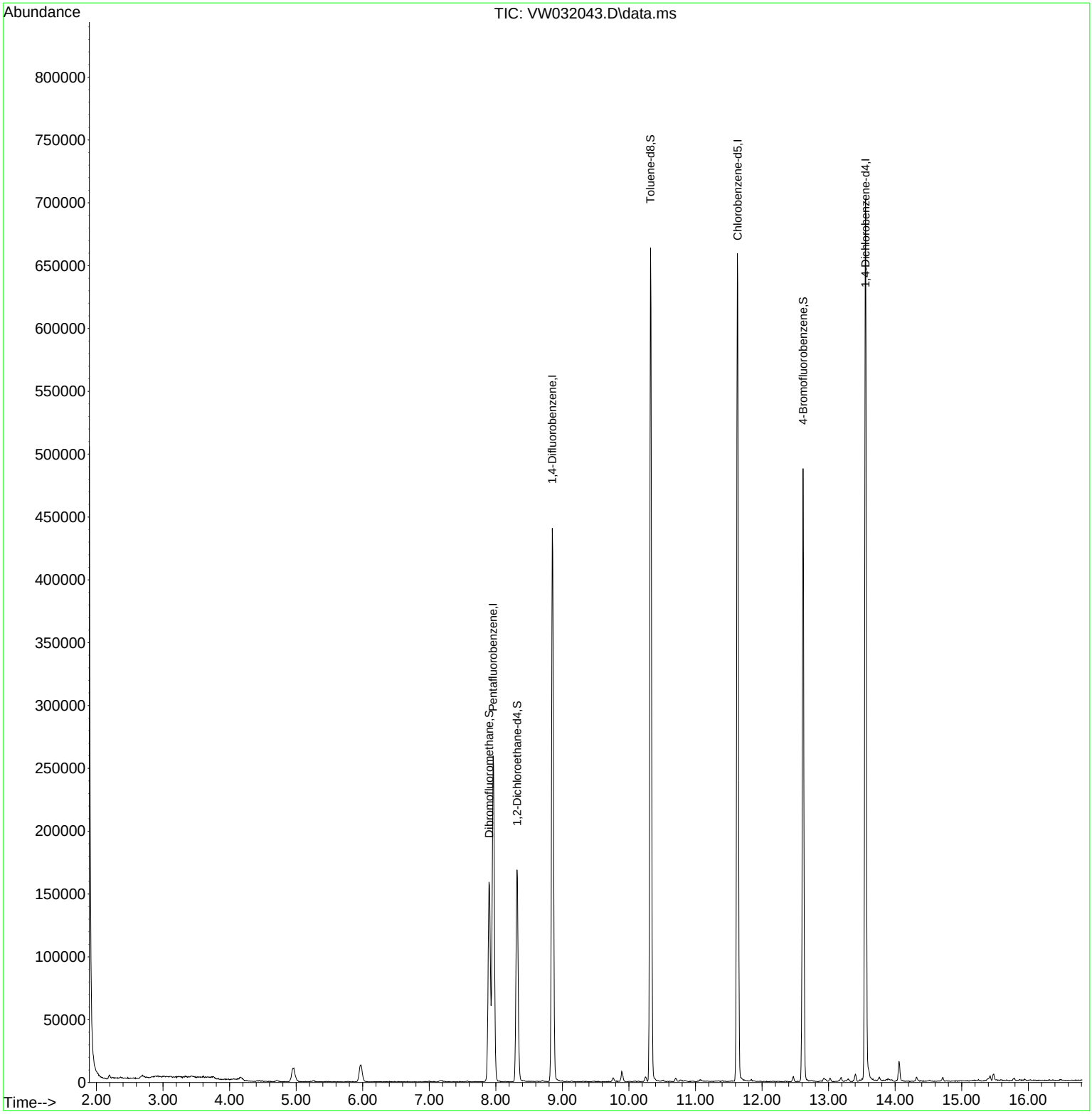
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	180542	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	382094	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	370140	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	182213	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	139247	50.985	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 101.960%			
35) Dibromofluoromethane	7.898	113	120115	46.262	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 92.520%			
50) Toluene-d8	10.325	98	439365	44.712	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 89.420%			
62) 4-Bromofluorobenzene	12.617	95	171359	45.415	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 90.820%			
Target Compounds						Qvalue

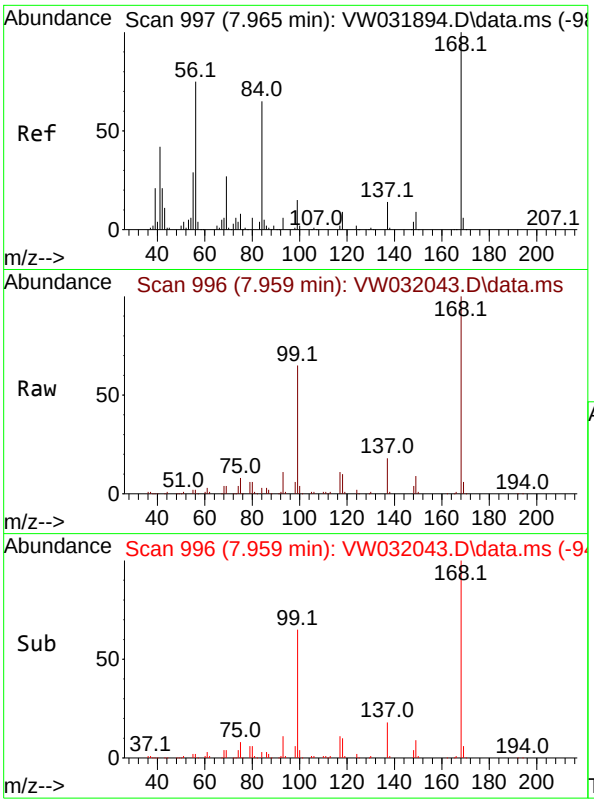
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032043.D
Acq On : 07 Aug 2025 14:26
Operator : SY/MD
Sample : Q2795-02
Misc : 5.09g/5mL/MSVOA_W/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
COMP-2

Quant Time: Aug 08 04:09:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration



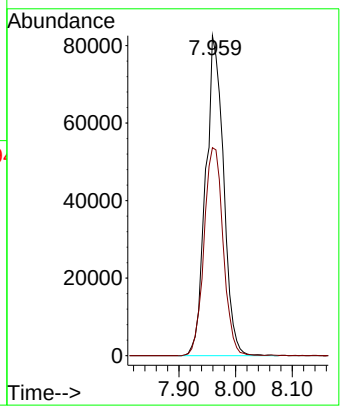


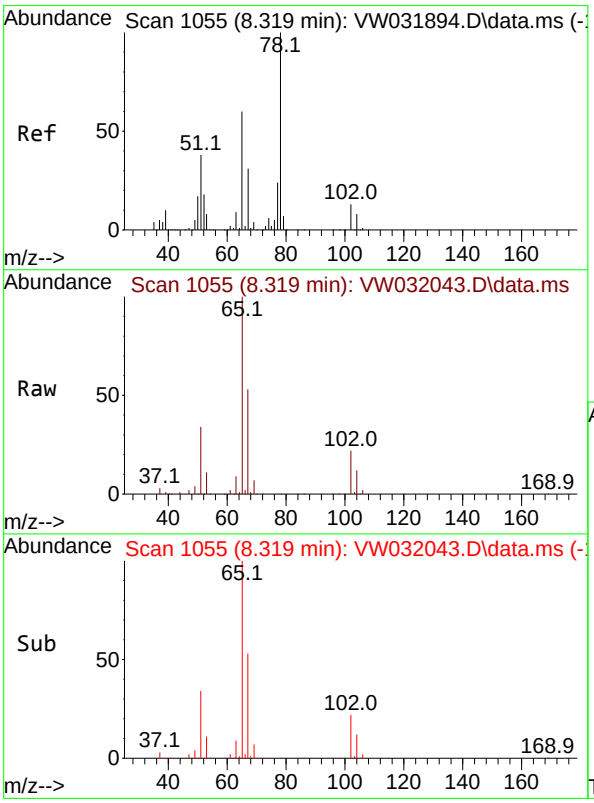
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032043.D
Acq: 07 Aug 2025 14:26

Instrument :
MSVOA_W
ClientSampleId :
COMP-2

Tgt Ion:168 Resp: 180542

Ion	Ratio	Lower	Upper
168	100		
99	65.0	48.2	72.2

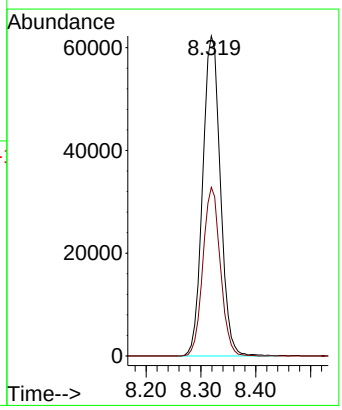


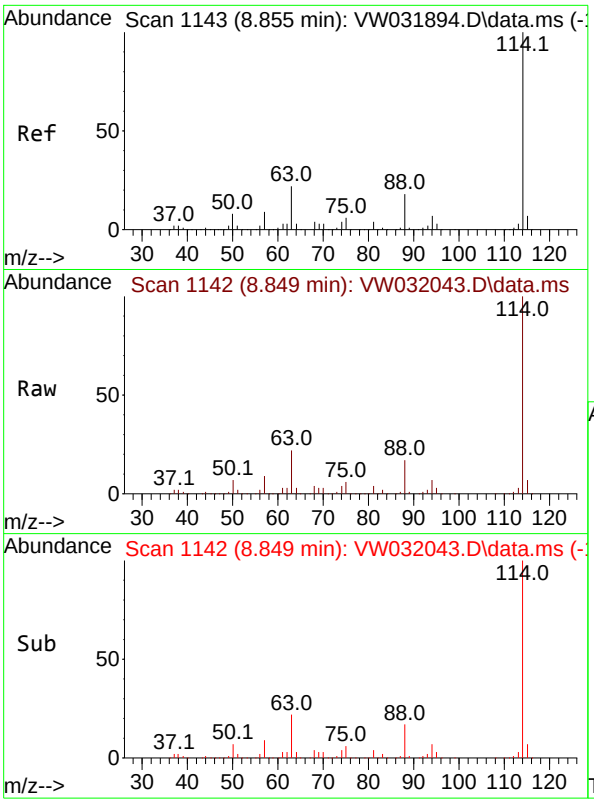


#33
1,2-Dichloroethane-d4
Concen: 50.985 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032043.D
Acq: 07 Aug 2025 14:26

Tgt Ion: 65 Resp: 139247

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	101.4



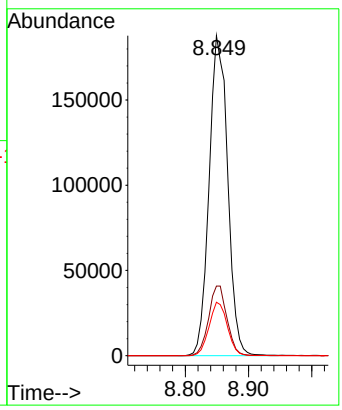


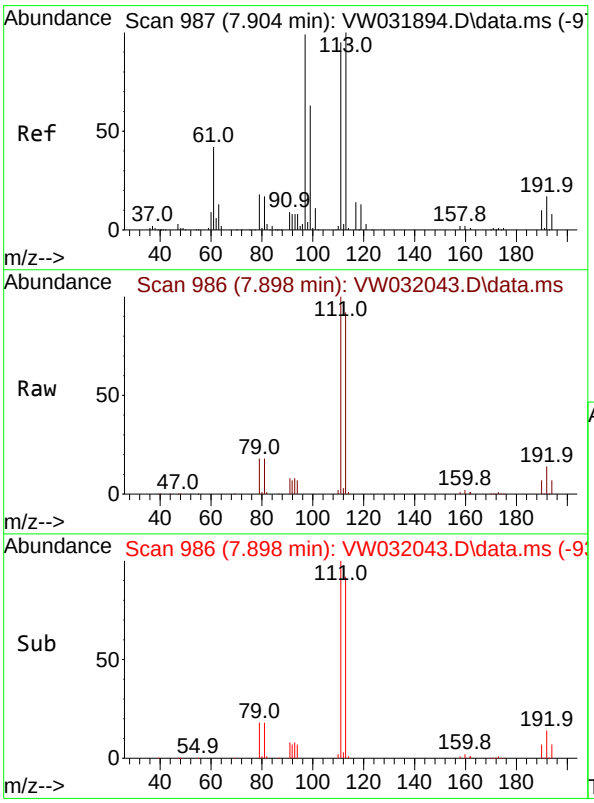
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032043.D
Acq: 07 Aug 2025 14:26

Instrument :
MSVOA_W
ClientSampleId :
COMP-2

Tgt Ion:114 Resp: 382094

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.2
88	16.7	0.0	35.6

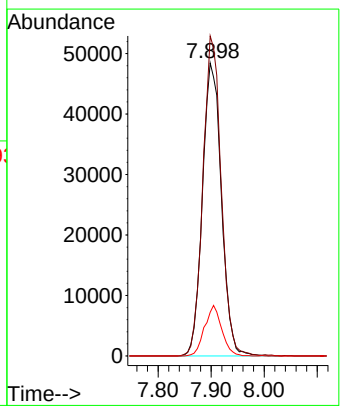


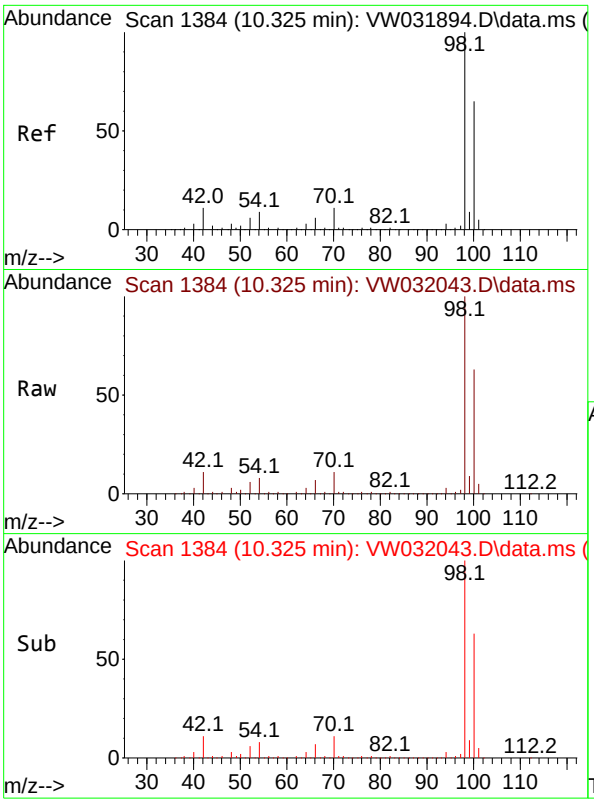


#35
Dibromofluoromethane
Concen: 46.262 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032043.D
Acq: 07 Aug 2025 14:26

Tgt Ion:113 Resp: 120115

Ion	Ratio	Lower	Upper
113	100		
111	105.2	79.9	119.9
192	15.7	12.6	19.0



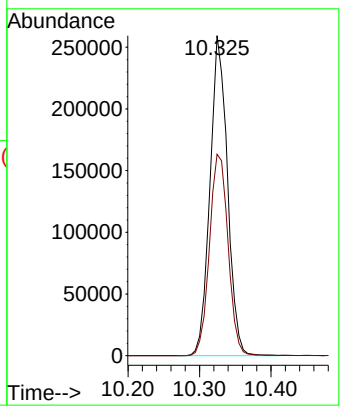


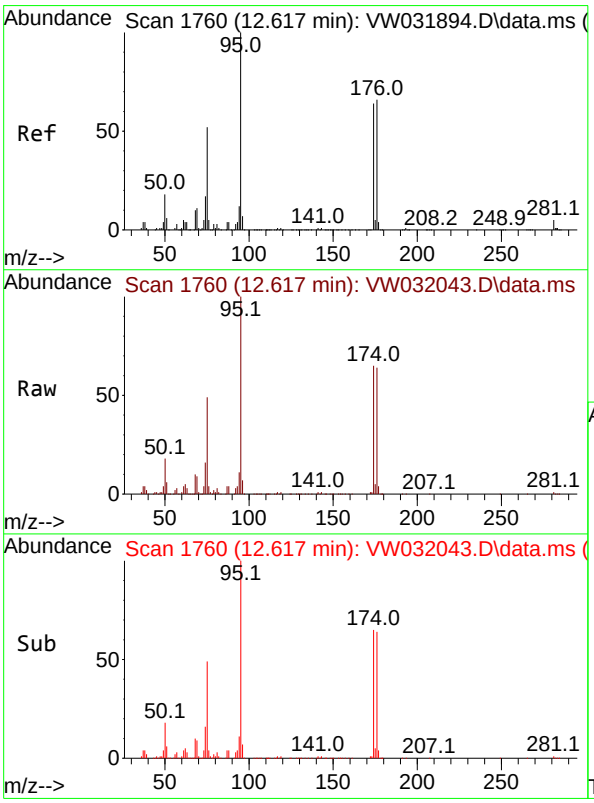
#50
Toluene-d8
Concen: 44.712 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032043.D
Acq: 07 Aug 2025 14:26

Instrument :
MSVOA_W
ClientSampleId :
COMP-2

Tgt Ion: 98 Resp: 439365

Ion	Ratio	Lower	Upper
98	100		
100	67.1	51.7	77.5

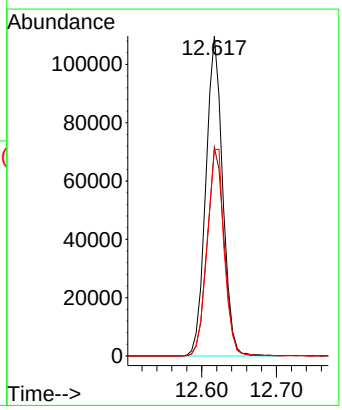


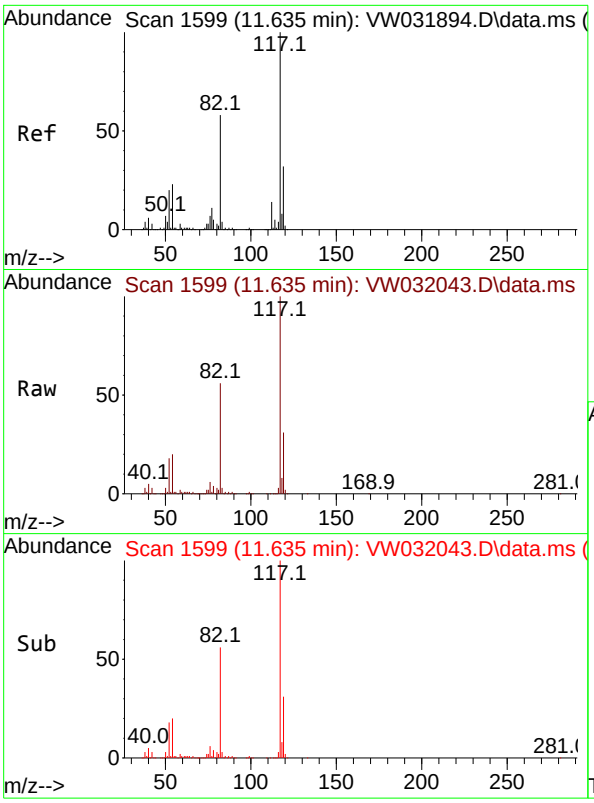


#62
4-Bromofluorobenzene
Concen: 45.415 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032043.D
Acq: 07 Aug 2025 14:26

Tgt Ion: 95 Resp: 171359

Ion	Ratio	Lower	Upper
95	100		
174	66.0	0.0	129.8
176	65.8	0.0	130.4



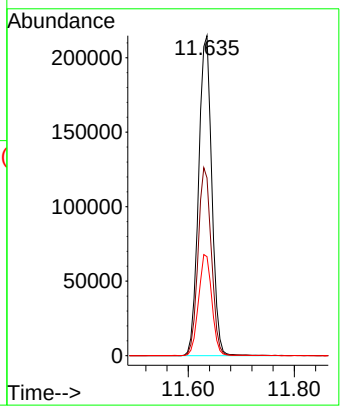


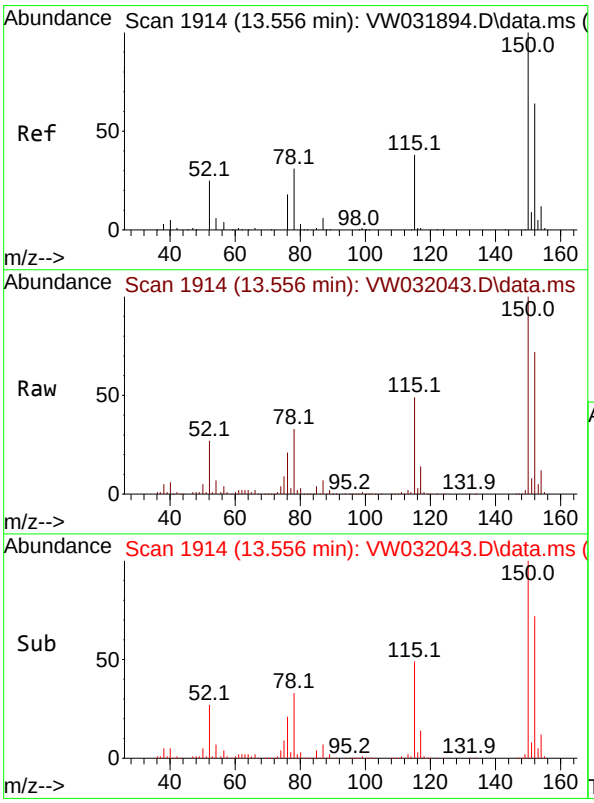
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032043.D
Acq: 07 Aug 2025 14:26

Instrument :
MSVOA_W
ClientSampleId :
COMP-2

Tgt Ion:117 Resp: 370140

Ion	Ratio	Lower	Upper
117	100		
82	55.6	46.5	69.7
119	30.9	25.8	38.6

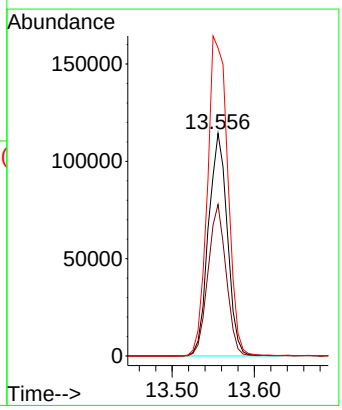




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032043.D
Acq: 07 Aug 2025 14:26

Tgt Ion:152 Resp: 182213

Ion	Ratio	Lower	Upper
152	100		
115	65.7	33.4	100.1
150	154.6	0.0	352.2



Raw Data: **VW032044.D**

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	08/06/25
Project:	Girard School - PA	Date Received:	08/07/25
Client Sample ID:	COMP-3	SDG No.:	Q2795
Lab Sample ID:	Q2795-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	5.56 Units: g	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:	Date Analyzed	Prep Batch ID
VW032044.D	1	08/07/25 14:48	VW080725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.82	U	0.82	5.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	5.50	ug/Kg
71-43-2	Benzene	0.87	U	0.87	5.50	ug/Kg
79-01-6	Trichloroethene	0.89	U	0.89	5.50	ug/Kg
108-88-3	Toluene	0.86	U	0.86	5.50	ug/Kg
100-41-4	Ethyl Benzene	0.73	U	0.73	5.50	ug/Kg
1330-20-7	Total Xylenes	2.30	U	2.30	16.5	ug/Kg
98-82-8	Isopropylbenzene	0.86	U	0.86	5.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.3		63 - 155	107%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	46.4		74 - 123	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		17 - 146	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	179000	7.965			
540-36-3	1,4-Difluorobenzene	379000	8.849			
3114-55-4	Chlorobenzene-d5	364000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	172000	13.556			

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_W\Data\VW080725\
Data File : VW032044.D
Acq On : 07 Aug 2025 14:48
Operator : SY/MD
Sample : Q2795-03
Misc : 5.56g/5mL/MSVOA_W/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
COMP-3

Quant Time: Aug 08 04:10:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

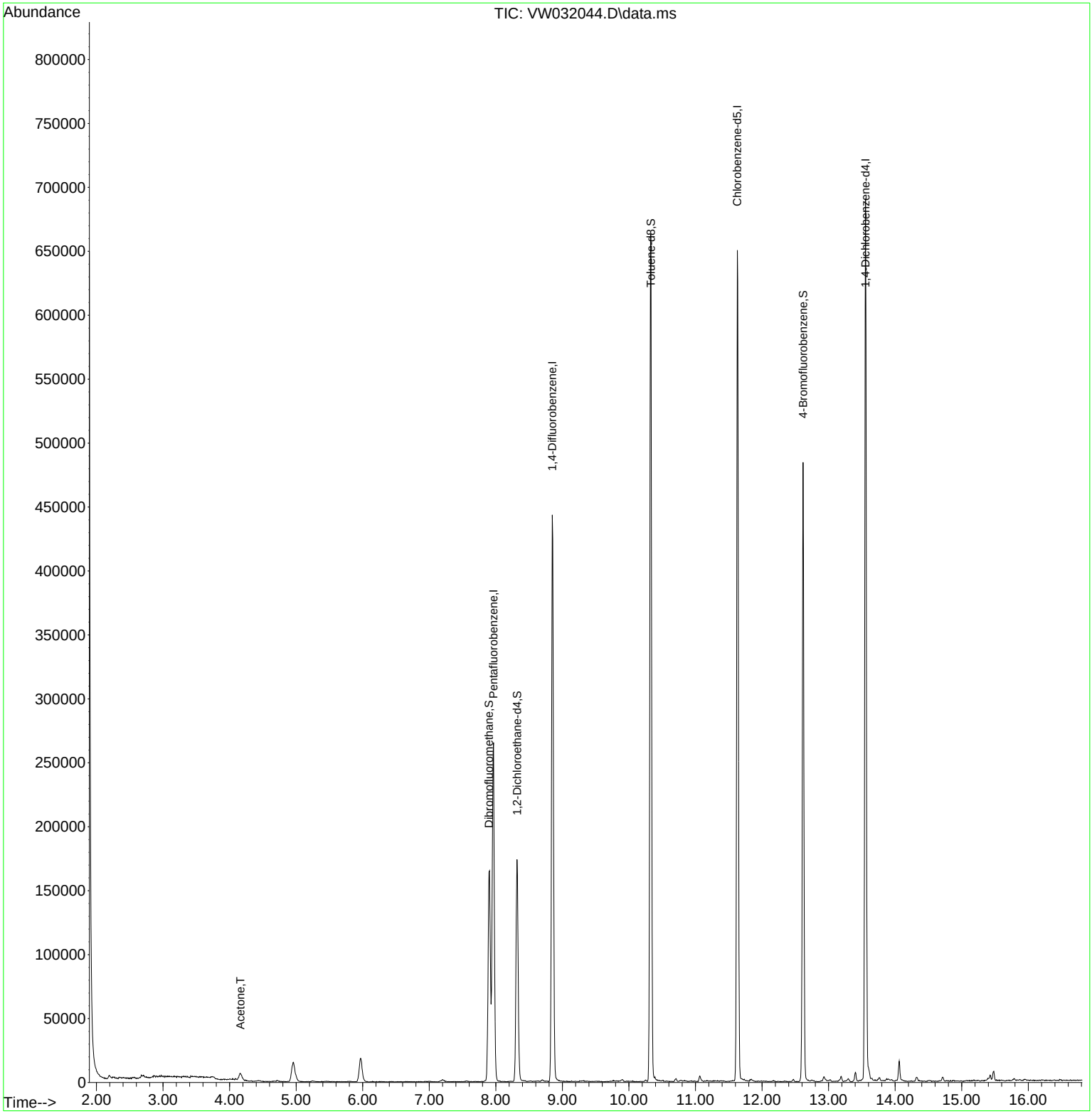
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	179400	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	378554	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	363624	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	171933	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	144710	53.322	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 106.640%			
35) Dibromofluoromethane	7.898	113	124718	48.485	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 96.960%			
50) Toluene-d8	10.331	98	451829	46.411	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 92.820%			
62) 4-Bromofluorobenzene	12.617	95	174028	46.554	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 93.100%			
Target Compounds						Qvalue
16) Acetone	4.161	43	9494	14.743	ug/l	92

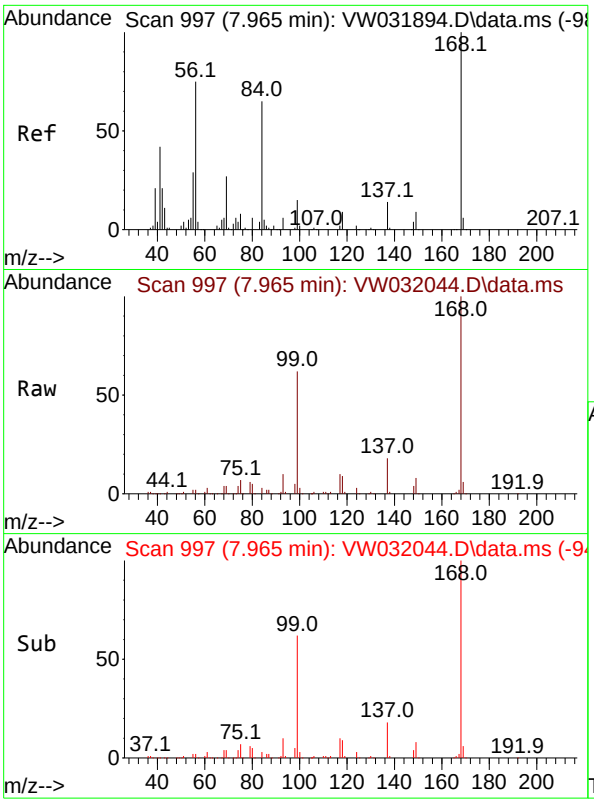
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032044.D
Acq On : 07 Aug 2025 14:48
Operator : SY/MD
Sample : Q2795-03
Misc : 5.56g/5mL/MSVOA_W/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
COMP-3

Quant Time: Aug 08 04:10:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration



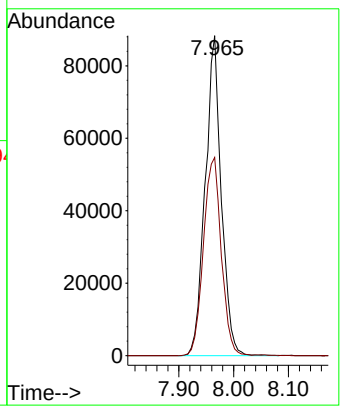


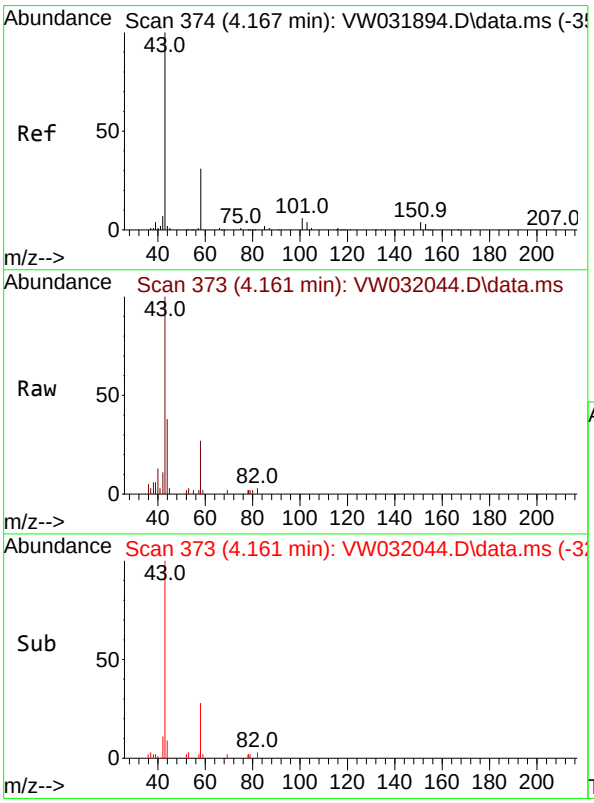
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032044.D
Acq: 07 Aug 2025 14:48

Instrument :
MSVOA_W
ClientSampleId :
COMP-3

Tgt Ion:168 Resp: 179400

Ion	Ratio	Lower	Upper
168	100		
99	62.0	48.2	72.2

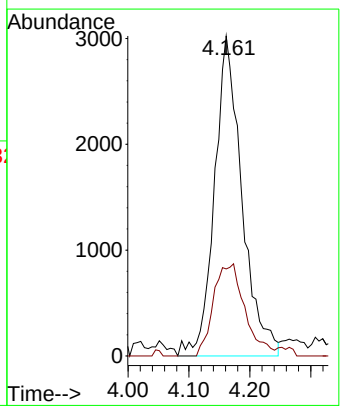


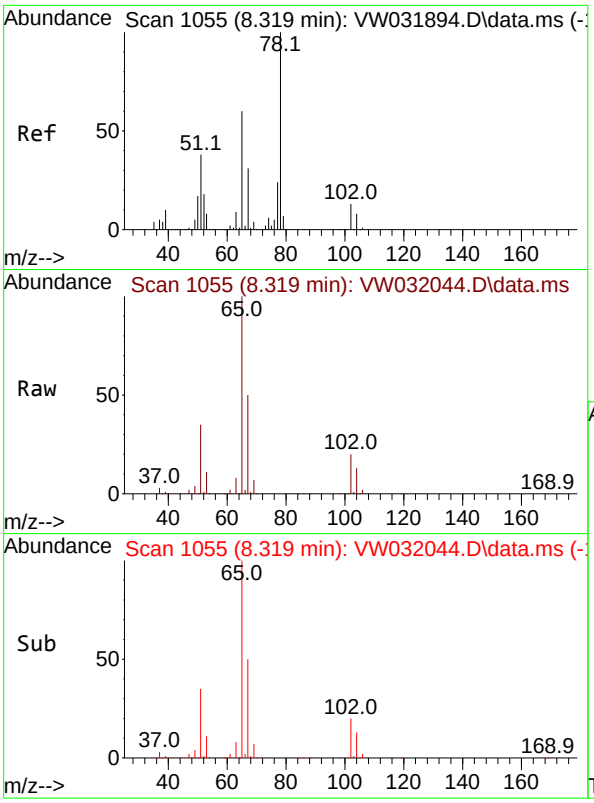


#16
Acetone
Concen: 14.743 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.006 min
Lab File: VW032044.D
Acq: 07 Aug 2025 14:48

Tgt Ion: 43 Resp: 9494

Ion	Ratio	Lower	Upper
43	100		
58	27.2	25.5	38.3



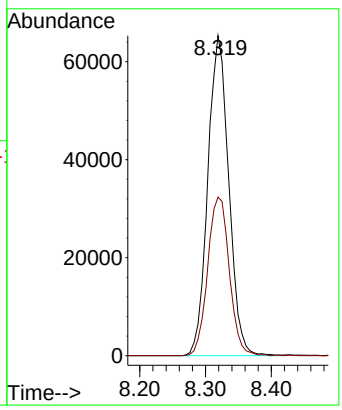


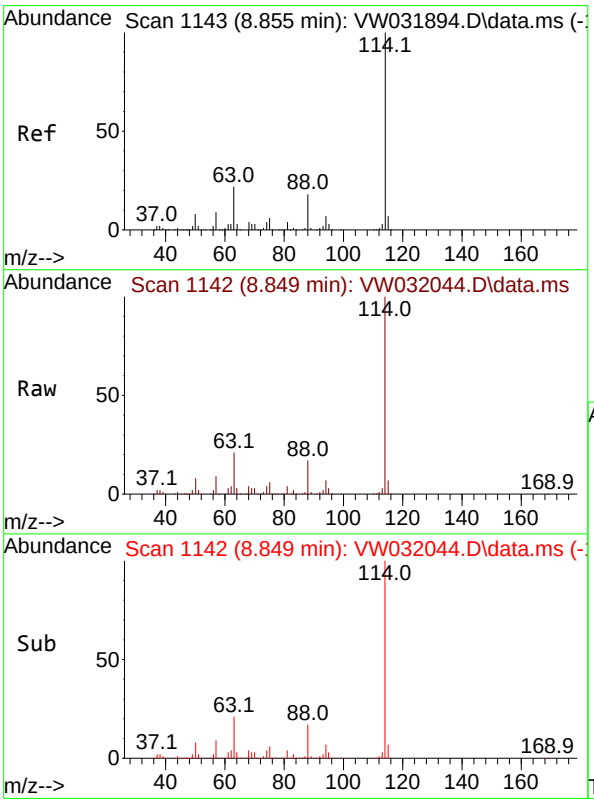
#33
1,2-Dichloroethane-d4
Concen: 53.322 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032044.D
Acq: 07 Aug 2025 14:48

Instrument :
MSVOA_W
ClientSampleId :
COMP-3

Tgt Ion: 65 Resp: 144710

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.4

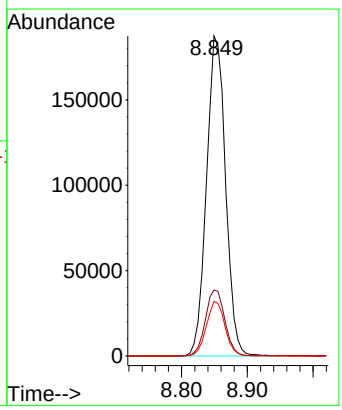


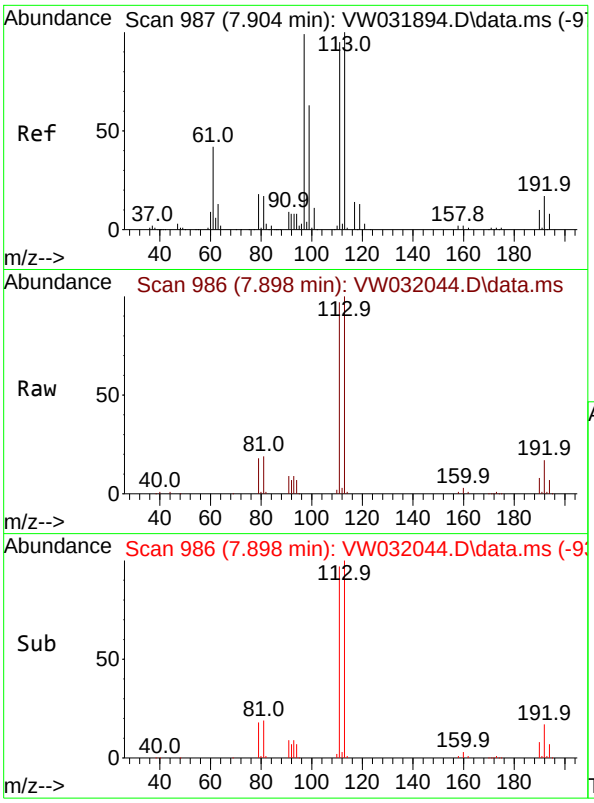


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VW032044.D
Acq: 07 Aug 2025 14:48

Tgt Ion:114 Resp: 378554

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	44.2
88	17.1	0.0	35.6



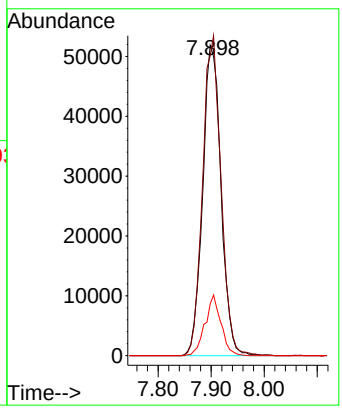


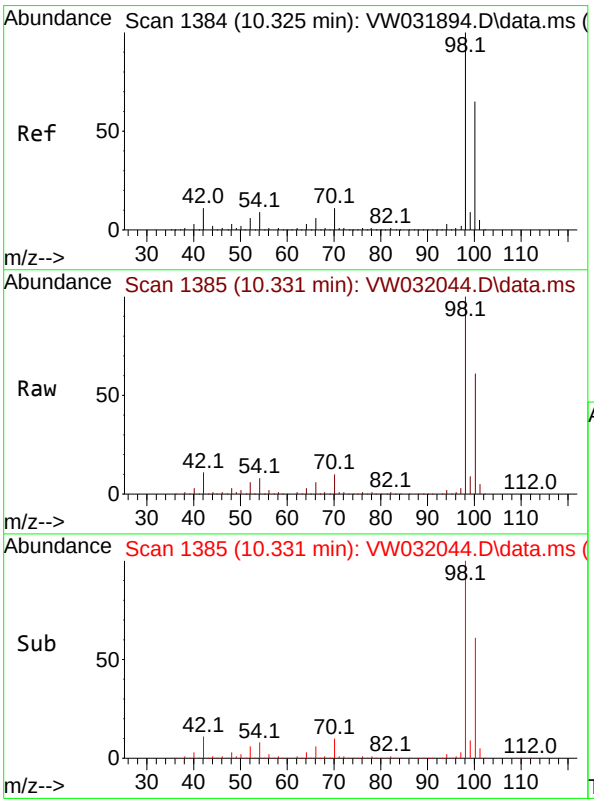
#35
Dibromofluoromethane
Concen: 48.485 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032044.D
Acq: 07 Aug 2025 14:48

Instrument :
MSVOA_W
ClientSampleId :
COMP-3

Tgt Ion:113 Resp: 124718

Ion	Ratio	Lower	Upper
113	100		
111	102.9	79.9	119.9
192	17.0	12.6	19.0

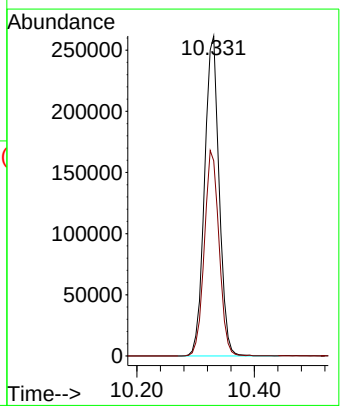


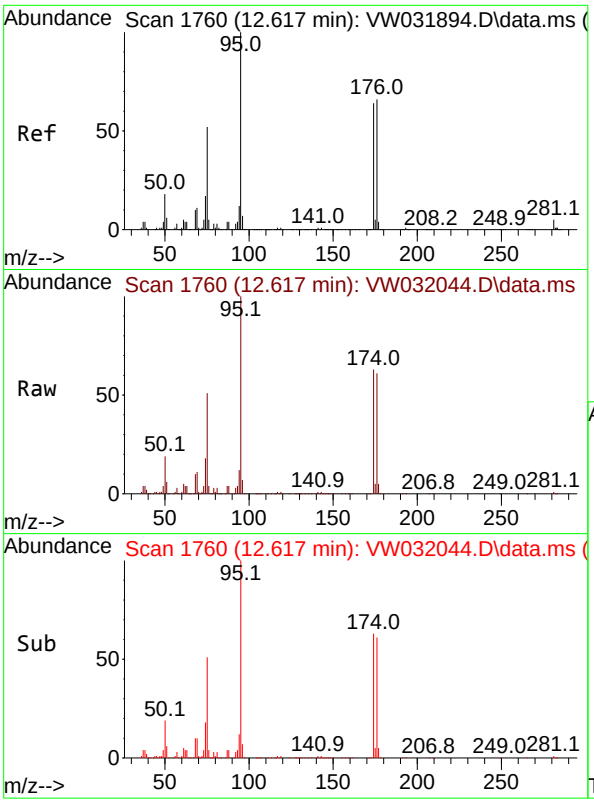


#50
Toluene-d8
Concen: 46.411 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032044.D
Acq: 07 Aug 2025 14:48

Tgt Ion: 98 Resp: 451829

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.7	77.5



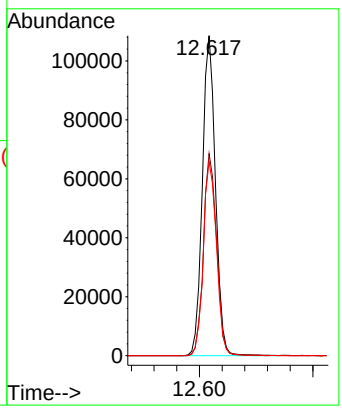


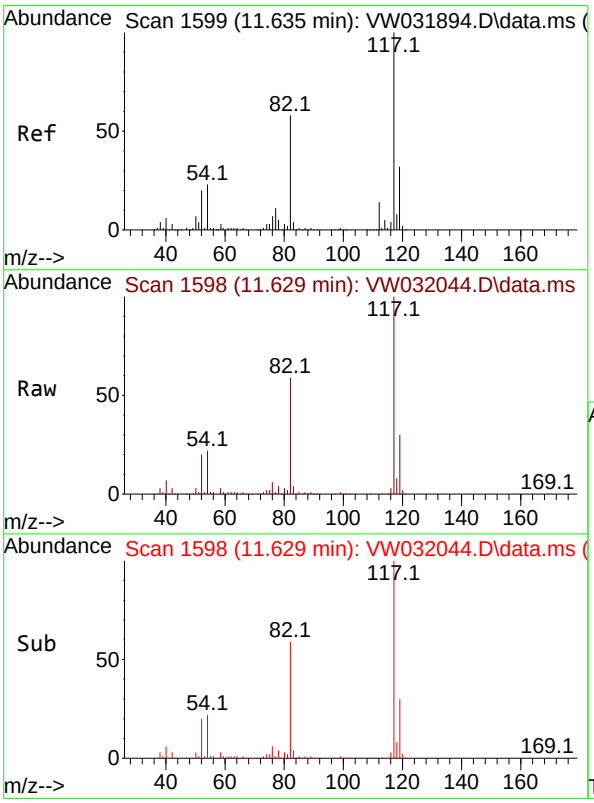
#62
4-Bromofluorobenzene
Concen: 46.554 ug/l
RT: 12.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032044.D
Acq: 07 Aug 2025 14:48

Instrument :
MSVOA_W
ClientSampleId :
COMP-3

Tgt Ion: 95 Resp: 174028

Ion	Ratio	Lower	Upper
95	100		
174	63.8	0.0	129.8
176	60.9	0.0	130.4

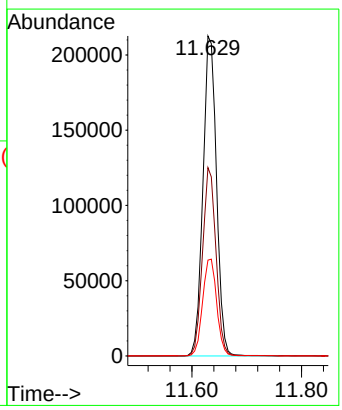


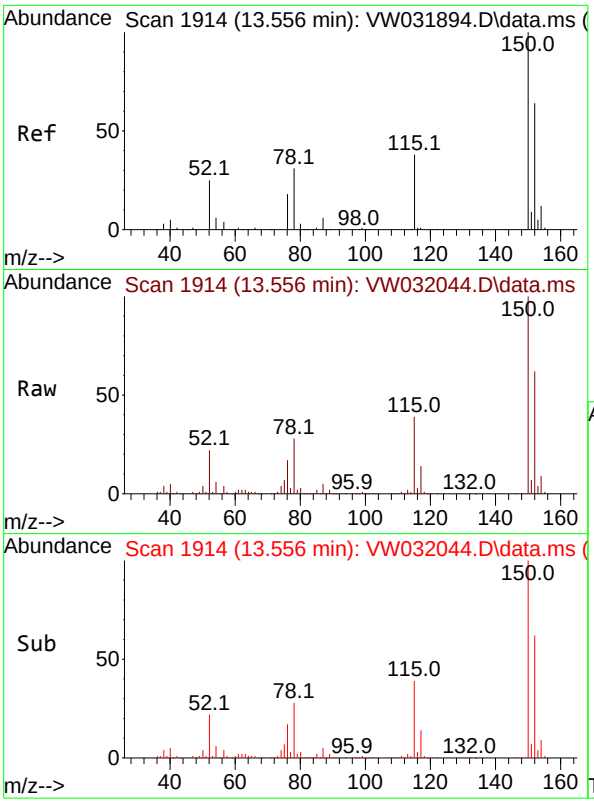


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032044.D
Acq: 07 Aug 2025 14:48

Tgt Ion:117 Resp: 363624

Ion	Ratio	Lower	Upper
117	100		
82	58.9	46.5	69.7
119	29.9	25.8	38.6



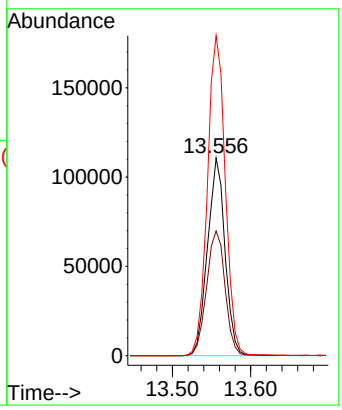


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032044.D
Acq: 07 Aug 2025 14:48

Instrument :
MSVOA_W
ClientSampleId :
COMP-3

Tgt Ion:152 Resp: 171933

Ion	Ratio	Lower	Upper
152	100		
115	66.5	33.4	100.1
150	164.5	0.0	352.2



CALIBRATION SUMMARY

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: POWE02

Lab Code: ACE SDG No.: Q2795

Instrument ID: MSVOA_W Calibration Date(s): 07/22/2025 07/22/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:05 12:00

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

LAB FILE ID: RRF005 = VW031891.D RRF010 = VW031892.D RRF020 = VW031893.D
RRF050 = VW031894.D RRF100 = VW031895.D RRF150 = VW031896.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
cis-1,2-Dichloroethene	0.878	0.789	0.821	0.824	0.846	0.831	0.832	3.6
1,1,1-Trichloroethane	1.114	1.017	1.008	1.010	1.009	1.032	1.032	4
Benzene	1.558	1.540	1.565	1.520	1.569	1.517	1.545	1.5
Trichloroethene	0.370	0.372	0.356	0.362	0.375	0.368	0.367	1.8
Toluene	0.992	0.998	1.003	0.979	0.998	0.986	0.993	0.9
Ethyl Benzene	2.167	2.107	2.165	2.226	2.099	2.137	2.150	2.2
m/p-Xylenes	0.808	0.801	0.829	0.823	0.794	0.802	0.809	1.7
o-Xylene	0.734	0.742	0.774	0.796	0.769	0.780	0.766	3.1
Isopropylbenzene	4.192	4.207	4.224	4.405	4.614	4.387	4.338	3.8
1,2-Dichloroethane-d4	0.899	0.744	0.782	0.709	0.717	0.686	0.756	10.2
Dibromofluoromethane	0.358	0.353	0.346	0.326	0.330	0.324	0.340	4.3
Toluene-d8	1.393	1.309	1.327	1.224	1.259	1.204	1.286	5.5
4-Bromofluorobenzene	0.542	0.515	0.516	0.460	0.476	0.452	0.494	7.2

* 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.

Response Factor Report MSVOA_W

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
Method File : 82W072225S.M
Title : SW846 8260
Last Update : Wed Jul 23 08:18:46 2025
Response Via : Initial Calibration

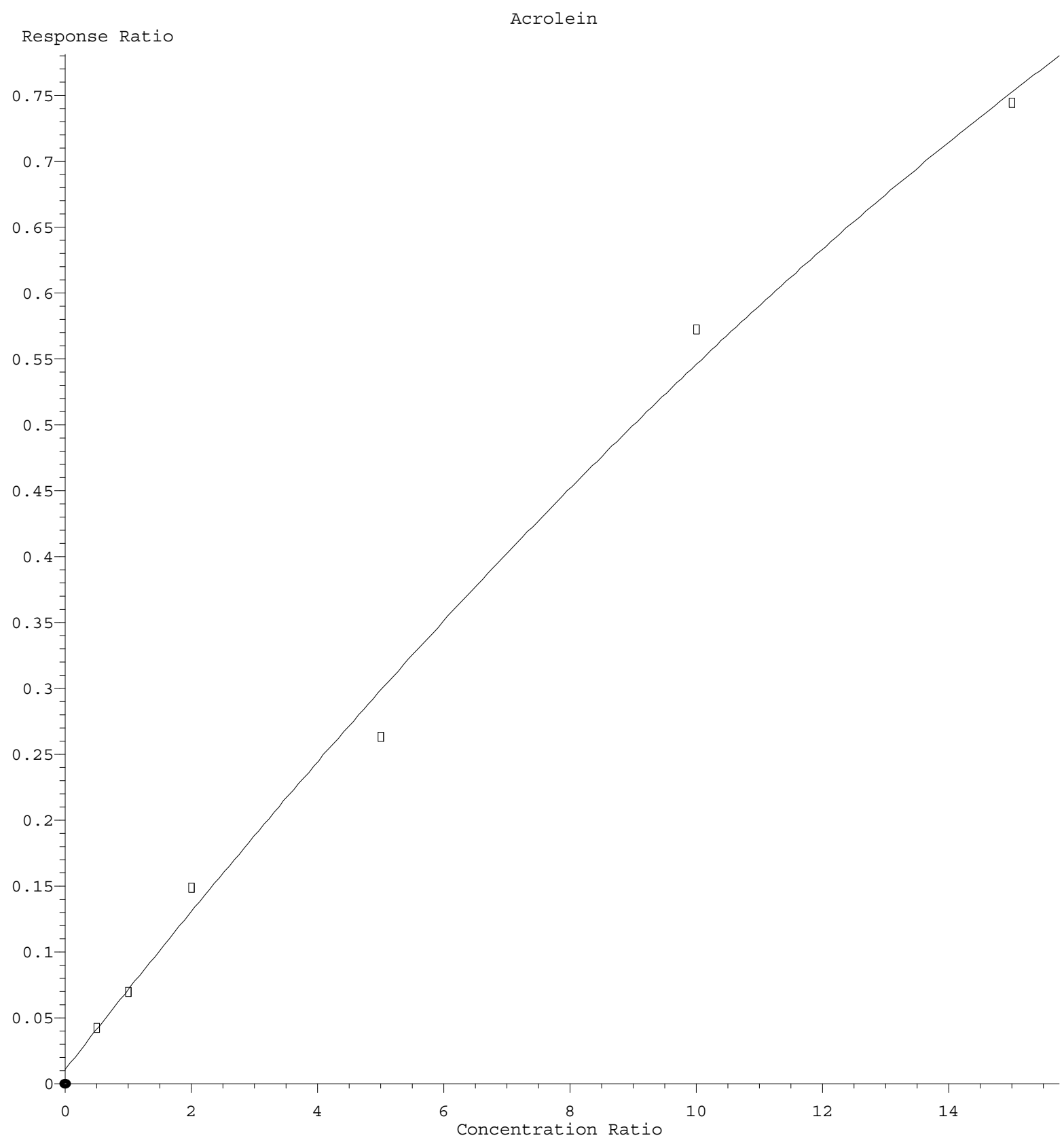
Calibration Files
5 =VW031891.D 10 =VW031892.D 20 =VW031893.D 50 =VW031894.D 100 =VW031895.D 150 =VW031896.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.427	0.364	0.355	0.358	0.369	0.357	0.372	7.40
3)	P	Chloromethane	0.533	0.475	0.462	0.434	0.459	0.498	0.477	7.24
4)	C	Vinyl Chloride	0.635	0.615	0.612	0.615	0.617	0.624	0.620	1.35#
5)	T	Bromomethane	0.500	0.454	0.444	0.434	0.448	0.457	0.456	5.04
6)	T	Chloroethane	0.448	0.395	0.394	0.392	0.409	0.414	0.409	5.19
7)	T	Trichlorofluor...	0.670	0.552	0.574	0.679	0.625	0.666	0.628	8.55
8)	T	Diethyl Ether	0.516	0.383	0.430	0.389	0.401	0.396	0.419	11.97
9)	T	1,1,2-Trichlor...	0.674	0.603	0.582	0.589	0.584	0.590	0.604	5.82
10)	T	Methyl Iodide	0.971	0.881	0.901	0.865	0.896	0.900	0.902	4.03
11)	T	Tert butyl alc...	0.048	0.039	0.047	0.044	0.049	0.041	0.044	8.99
12)	CM	1,1-Dichloroet...	0.714	0.656	0.650	0.645	0.667	0.669	0.667	3.73#
13)	T	Acrolein	0.085	0.070	0.074	0.053	0.057	0.050	0.065	21.29
14)	T	Allyl chloride	1.090	0.989	1.032	1.011	1.041	1.064	1.038	3.52
15)	T	Acrylonitrile	0.203	0.170	0.194	0.182	0.196	0.180	0.187	6.57
16)	T	Acetone	0.206	0.189	0.186	0.166	0.168	0.163	0.179	9.34
17)	T	Carbon Disulfide	1.775	1.643	1.708	1.693	1.757	1.798	1.729	3.36
18)	T	Methyl Acetate	0.528	0.427	0.529	0.475	0.527	0.481	0.494	8.36
19)	T	Methyl tert-bu...	1.271	1.110	1.204	1.132	1.153	1.042	1.152	6.86
20)	T	Methylene Chlo...	1.615	0.931	0.910	0.756	0.730	0.722	0.944	36.15
21)	T	trans-1,2-Dich...	0.767	0.679	0.697	0.691	0.699	0.712	0.707	4.38
22)	T	Diisopropyl ether	2.209	1.963	2.111	2.067	2.076	2.035	2.077	3.93
23)	T	Vinyl Acetate	1.403	1.230	1.372	1.355	1.438	1.343	1.357	5.25
24)	P	1,1-Dichloroet...	1.372	1.262	1.274	1.263	1.291	1.296	1.293	3.20
25)	T	2-Butanone	0.260	0.231	0.266	0.236	0.254	0.227	0.246	6.69
26)	T	2,2-Dichloropr...	0.814	0.704	0.696	0.738	0.700	0.740	0.732	6.07
27)	T	cis-1,2-Dichlo...	0.878	0.789	0.821	0.824	0.846	0.831	0.832	3.55
28)	T	Bromochloromet...	0.585	0.520	0.546	0.526	0.542	0.531	0.541	4.32
29)	T	Tetrahydrofuran	0.172	0.143	0.170	0.159	0.172	0.149	0.161	7.80
30)	C	Chloroform	1.436	1.336	1.362	1.314	1.348	1.338	1.356	3.11#
31)	T	Cyclohexane	1.399	1.176	1.078	1.099	1.100	1.107	1.160	10.50
32)	T	1,1,1-Trichlor...	1.114	1.017	1.008	1.010	1.009	1.032	1.032	4.02
33)	S	1,2-Dichloroet...	0.899	0.744	0.782	0.709	0.717	0.686	0.756	10.23
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.358	0.353	0.346	0.326	0.330	0.324	0.340	4.29
36)	T	1,1-Dichloropr...	0.529	0.531	0.520	0.509	0.527	0.514	0.522	1.73
37)	T	Ethyl Acetate	0.309	0.280	0.303	0.295	0.318	0.280	0.298	5.25
38)	T	Carbon Tetrach...	0.489	0.498	0.502	0.493	0.517	0.506	0.501	1.97
39)	T	Methylcyclohexane	0.655	0.643	0.637	0.657	0.690	0.659	0.657	2.80
40)	TM	Benzene	1.558	1.540	1.565	1.520	1.569	1.517	1.545	1.46
41)	T	Methacrylonitrile	0.179	0.179	0.177	0.179	0.188	0.166	0.178	3.94
42)	TM	1,2-Dichloroet...	0.508	0.484	0.516	0.480	0.507	0.471	0.494	3.74
43)	T	Isopropyl Acetate	0.544	0.491	0.556	0.531	0.589	0.523	0.539	6.14
44)	TM	Trichloroethene	0.370	0.372	0.356	0.362	0.375	0.368	0.367	1.83
45)	C	1,2-Dichloropr...	0.381	0.367	0.376	0.360	0.377	0.370	0.372	2.06#
46)	T	Dibromomethane	0.233	0.226	0.241	0.226	0.236	0.221	0.231	3.25
47)	T	Bromodichlorom...	0.537	0.546	0.561	0.535	0.582	0.557	0.553	3.22
48)	T	Methyl methacr...	0.244	0.229	0.272	0.256	0.281	0.255	0.256	7.27
49)	T	1,4-Dioxane	0.002	0.002	0.002	0.003	0.003	0.002	0.002	13.34
50)	S	Toluene-d8	1.393	1.309	1.327	1.224	1.259	1.204	1.286	5.48
51)	T	4-Methyl-2-Pen...	0.293	0.270	0.317	0.295	0.320	0.273	0.295	7.10
52)	CM	Toluene	0.992	0.998	1.003	0.979	0.998	0.986	0.993	0.91#
53)	T	t-1,3-Dichloro...	0.502	0.496	0.535	0.522	0.575	0.552	0.530	5.71
54)	T	cis-1,3-Dichlo...	0.591	0.578	0.601	0.602	0.646	0.617	0.606	3.87
55)	T	1,1,2-Trichlor...	0.316	0.297	0.314	0.300	0.317	0.295	0.306	3.35
56)	T	Ethyl methacry...	0.397	0.388	0.443	0.442	0.487	0.439	0.433	8.31

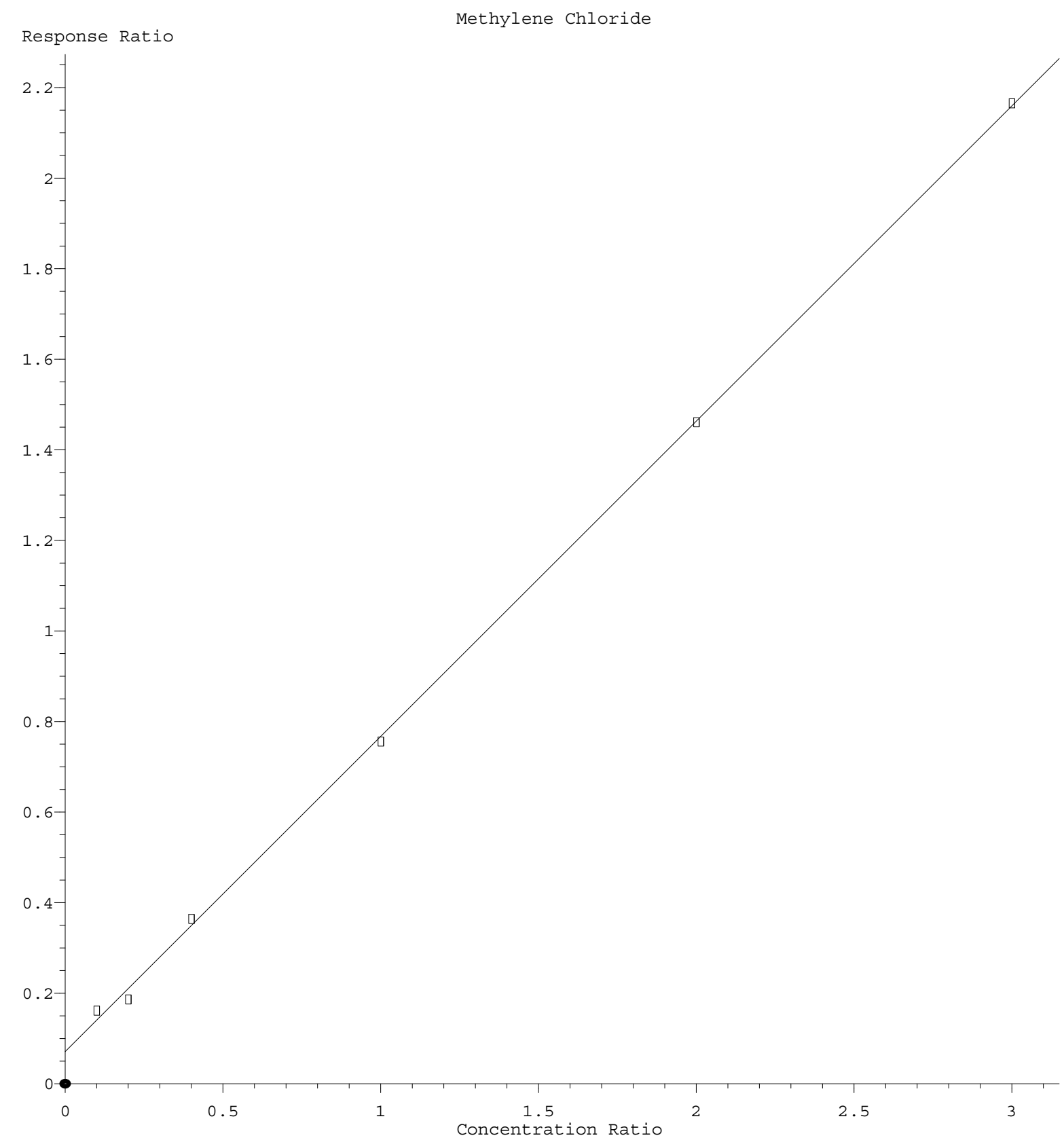
Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
Method File : 82W072225S.M

57)	T	1,3-Dichloropr...	0.538	0.525	0.564	0.533	0.565	0.513	0.540	3.86
58)	T	2-Chloroethyl ...	0.209	0.205	0.228	0.223	0.244	0.223	0.222	6.26
59)	T	2-Hexanone	0.205	0.188	0.220	0.206	0.222	0.189	0.205	7.09
60)	T	Dibromochlorom...	0.349	0.339	0.358	0.351	0.386	0.359	0.357	4.52
61)	T	1,2-Dibromoethane	0.302	0.291	0.318	0.297	0.318	0.290	0.303	4.20
62)	S	4-Bromofluorob...	0.542	0.515	0.516	0.460	0.476	0.452	0.494	7.23
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.345	0.334	0.333	0.324	0.319	0.323	0.330	2.91
65)	PM	Chlorobenzene	1.216	1.227	1.257	1.244	1.193	1.205	1.224	1.97
66)	T	1,1,1,2-Tetrac...	0.379	0.366	0.394	0.377	0.377	0.383	0.379	2.40
67)	C	Ethyl Benzene	2.167	2.107	2.165	2.226	2.099	2.137	2.150	2.16#
68)	T	m/p-Xylenes	0.808	0.801	0.829	0.823	0.794	0.802	0.809	1.68
69)	T	o-Xylene	0.734	0.742	0.774	0.796	0.769	0.780	0.766	3.08
70)	T	Styrene	1.277	1.260	1.344	1.361	1.276	1.308	1.304	3.12
71)	P	Bromoform	0.202	0.182	0.208	0.219	0.223	0.211	0.207	7.09
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	4.192	4.207	4.224	4.405	4.614	4.387	4.338	3.78
74)	T	N-amyl acetate	1.138	1.029	1.188	1.193	1.319	1.171	1.173	7.98
75)	P	1,1,2,2-Tetrac...	0.947	0.851	0.964	0.914	0.982	0.868	0.921	5.73
76)	T	1,2,3-Trichlor...	0.728	0.641	0.704	0.690	0.735	0.643	0.690	5.90
77)	T	Bromobenzene	0.924	0.906	0.982	0.909	0.974	0.938	0.939	3.45
78)	T	n-propylbenzene	5.336	5.173	5.267	5.332	5.578	5.284	5.328	2.55
79)	T	2-Chlorotoluene	3.196	3.091	3.176	3.131	3.306	3.187	3.181	2.29
80)	T	1,3,5-Trimethy...	3.536	3.502	3.620	3.593	3.923	3.657	3.638	4.13
81)	T	trans-1,4-Dich...	0.275	0.256	0.301	0.300	0.349	0.313	0.299	10.67
82)	T	4-Chlorotoluene	3.414	3.360	3.311	3.278	3.384	3.277	3.337	1.72
83)	T	tert-Butylbenzene	3.105	2.985	3.028	3.080	3.325	3.074	3.099	3.82
84)	T	1,2,4-Trimethy...	3.699	3.640	3.651	3.685	3.787	3.634	3.683	1.56
85)	T	sec-Butylbenzene	4.715	4.590	4.604	4.619	4.748	4.651	4.654	1.38
86)	T	p-Isopropyltol...	3.892	3.746	3.759	3.842	4.056	3.788	3.847	3.02
87)	T	1,3-Dichlorobe...	2.060	1.901	2.017	1.911	1.977	1.858	1.954	3.94
88)	T	1,4-Dichlorobe...	2.044	1.907	1.985	1.824	1.942	1.783	1.914	5.13
89)	T	n-Butylbenzene	3.842	3.598	3.663	3.827	3.966	3.747	3.774	3.53
90)	T	Hexachloroethane	0.686	0.600	0.648	0.643	0.713	0.701	0.665	6.35
91)	T	1,2-Dichlorobe...	1.806	1.694	1.765	1.677	1.802	1.646	1.732	3.94
92)	T	1,2-Dibromo-3-...	0.183	0.145	0.169	0.160	0.180	0.160	0.166	8.54
93)	T	1,2,4-Trichlor...	1.113	0.952	1.036	0.984	1.171	1.010	1.044	7.92
94)	T	Hexachlorobuta...	0.524	0.459	0.486	0.489	0.525	0.486	0.495	5.14
95)	T	Naphthalene	2.581	2.257	2.534	2.535	2.913	2.584	2.567	8.14
96)	T	1,2,3-Trichlor...	0.976	0.898	0.907	0.935	1.042	0.920	0.946	5.73

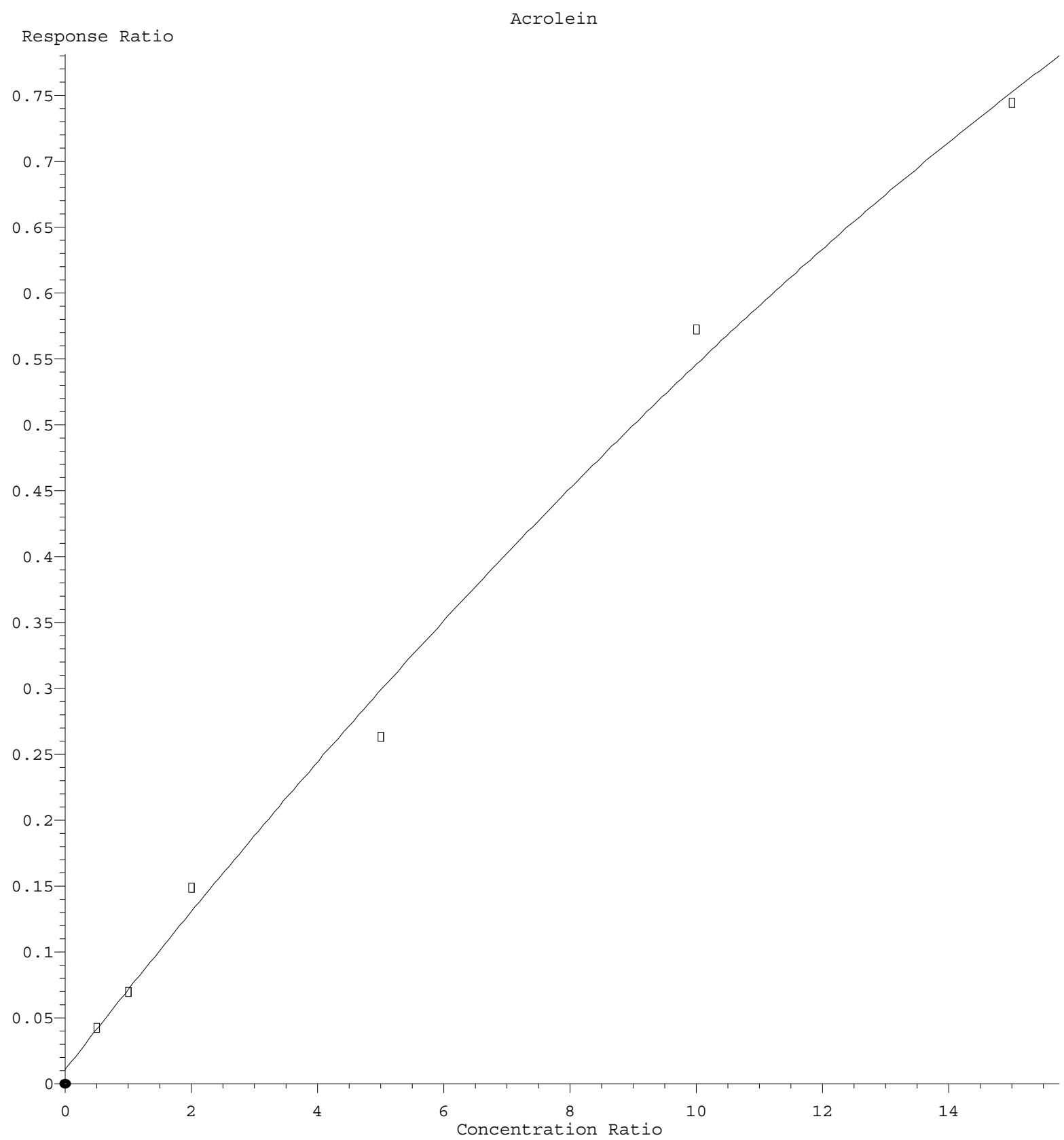
(#) = Out of Range



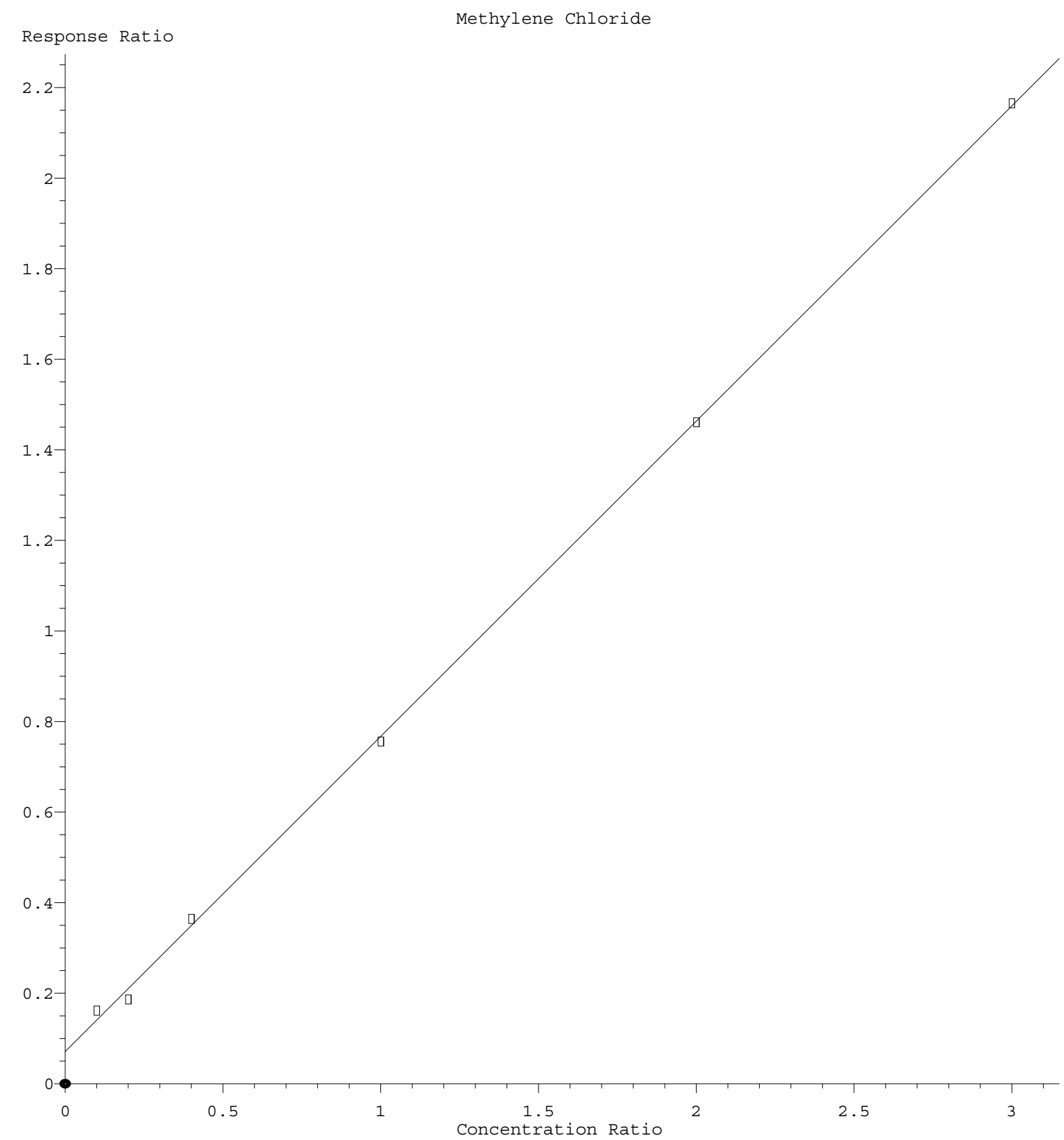
R = -8.138e-004 A*A + 6.165e-002 A + 1.071e-002
Coef of Det (r^2) = 0.994336 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA W\Method\82W072225S.M
Calibration Table Last Updated: Wed Jul 23 08:18:46 2025



Response = 6.962e-001 * Amt + 7.147e-002
Coef of Det (r^2) = 0.999576 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA W\Method\82W072225S.M
Calibration Table Last Updated: Wed Jul 23 08:18:46 2025



R = -8.138e-004 A*A + 6.165e-002 A + 1.071e-002
Coef of Det (r^2) = 0.994336 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA W\Method\82W072225S.M
Calibration Table Last Updated: Wed Jul 23 08:18:46 2025



Response = 6.962e-001 * Amt + 7.147e-002
Coef of Det (r^2) = 0.999576 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA W\Method\82W072225S.M
Calibration Table Last Updated: Wed Jul 23 08:18:46 2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031891.D
Acq On : 22 Jul 2025 09:05
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 07:59:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.965	168	228235	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.856	114	449234	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.629	117	394805	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	183530	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.325	65	20528	5.946	ug/l		0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	11.900%#			
35) Dibromofluoromethane	7.904	113	16097	5.273	ug/l		0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	10.540%#			
50) Toluene-d8	10.325	98	62567	5.416	ug/l		0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	10.840%#			
62) 4-Bromofluorobenzene	12.617	95	24327	5.484	ug/l		0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	10.960%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.052	85	9741	5.742	ug/l		97
3) Chloromethane	2.265	50	12168	5.589	ug/l		95
4) Vinyl Chloride	2.412	62	14484	5.121	ug/l		98
5) Bromomethane	2.832	94	11418	5.482	ug/l		98
6) Chloroethane	2.985	64	10231	5.481	ug/l		95
7) Trichlorofluoromethane	3.320	101	15281	5.334	ug/l		96
8) Diethyl Ether	3.735	74	11778	6.155	ug/l		93
9) 1,1,2-Trichlorotrifluo...	4.112	101	15377	5.581	ug/l		99
10) Methyl Iodide	4.314	142	22169	5.381	ug/l		97
11) Tert butyl alcohol	5.222	59	5422	26.716	ug/l		99
12) 1,1-Dichloroethene	4.082	96	16290	5.353	ug/l		94
13) Acrolein	3.942	56	9673	25.862	ug/l		97
14) Allyl chloride	4.716	41	24887	5.253	ug/l		97
15) Acrylonitrile	5.411	53	23139	27.048	ug/l		98
16) Acetone	4.173	43	23464	28.639	ug/l		99
17) Carbon Disulfide	4.423	76	40508	5.132	ug/l		98
18) Methyl Acetate	4.716	43	12046	5.337	ug/l		95
19) Methyl tert-butyl Ether	5.472	73	29007	5.516	ug/l		93
20) Methylene Chloride	4.966	84	36859	6.466	ug/l		99
21) trans-1,2-Dichloroethene	5.466	96	17499	5.419	ug/l		96
22) Diisopropyl ether	6.344	45	50407	5.317	ug/l	#	88
23) Vinyl Acetate	6.289	43	160114	25.853	ug/l		98
24) 1,1-Dichloroethane	6.258	63	31324	5.307	ug/l		98
25) 2-Butanone	7.203	43	29641	26.442	ug/l		97
26) 2,2-Dichloropropane	7.191	77	18572	5.558	ug/l		100
27) cis-1,2-Dichloroethene	7.203	96	20040	5.279	ug/l		100
28) Bromochloromethane	7.539	49	13347	5.401	ug/l		99
29) Tetrahydrofuran	7.557	42	19682	26.780	ug/l		98
30) Chloroform	7.697	83	32764	5.294	ug/l		99
31) Cyclohexane	7.972	56	31936	6.031	ug/l	#	79
32) 1,1,1-Trichloroethane	7.886	97	25435	5.401	ug/l		96
36) 1,1-Dichloropropene	8.100	75	23778	5.072	ug/l		98
37) Ethyl Acetate	7.277	43	13902m	5.198	ug/l		
38) Carbon Tetrachloride	8.087	117	21986	4.887	ug/l		93
39) Methylcyclohexane	9.343	83	29428	4.988	ug/l		98
40) Benzene	8.343	78	69976	5.043	ug/l		95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031891.D
Acq On : 22 Jul 2025 09:05
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 07:59:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	8040m	5.104	ug/l		
42) 1,2-Dichloroethane	8.417	62	22835	5.141	ug/l		100
43) Isopropyl Acetate	8.435	43	24443	5.049	ug/l		99
44) Trichloroethene	9.105	130	16617	5.038	ug/l		97
45) 1,2-Dichloropropane	9.380	63	17128	5.125	ug/l		98
46) Dibromomethane	9.471	93	10488	5.062	ug/l		98
47) Bromodichloromethane	9.654	83	24125	4.856	ug/l		96
48) Methyl methacrylate	9.447	41	10983	4.768	ug/l		95
49) 1,4-Dioxane	9.465	88	1664	80.493	ug/l	#	87
51) 4-Methyl-2-Pentanone	10.215	43	65866	24.860	ug/l		98
52) Toluene	10.392	92	44580	4.997	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	22560	4.734	ug/l		97
54) cis-1,3-Dichloropropene	10.081	75	26530	4.875	ug/l		97
55) 1,1,2-Trichloroethane	10.788	97	14199	5.160	ug/l		99
56) Ethyl methacrylate	10.648	69	17819	4.585	ug/l		92
57) 1,3-Dichloropropane	10.934	76	24166	4.985	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.929	63	46965	23.525	ug/l		99
59) 2-Hexanone	10.971	43	45962	24.957	ug/l		96
60) Dibromochloromethane	11.130	129	15663	4.882	ug/l		96
61) 1,2-Dibromoethane	11.239	107	13545	4.981	ug/l		99
64) Tetrachloroethene	10.861	164	13609	5.228	ug/l	#	88
65) Chlorobenzene	11.660	112	47998	4.967	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.733	131	14955	4.992	ug/l		99
67) Ethyl Benzene	11.733	91	85548	5.039	ug/l		100
68) m/p-Xylenes	11.843	106	63820	9.986	ug/l		100
69) o-Xylene	12.166	106	28989	4.793	ug/l		94
70) Styrene	12.178	104	50399	4.894	ug/l		98
71) Bromoform	12.349	173	7989	4.877	ug/l	#	95
73) Isopropylbenzene	12.459	105	76941	4.832	ug/l		100
74) N-amyl acetate	12.270	43	20889	4.852	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.715	83	17372	5.139	ug/l		97
76) 1,2,3-Trichloropropane	12.763	75	13366m	5.320	ug/l		
77) Bromobenzene	12.745	156	16967	4.924	ug/l		98
78) n-propylbenzene	12.806	91	97940	5.008	ug/l		100
79) 2-Chlorotoluene	12.885	91	58659	5.023	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	64888	4.859	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.507	75	5052	4.603	ug/l		94
82) 4-Chlorotoluene	12.989	91	62666	5.115	ug/l		99
83) tert-Butylbenzene	13.202	119	56981	5.009	ug/l		97
84) 1,2,4-Trimethylbenzene	13.245	105	67882	5.022	ug/l		97
85) sec-Butylbenzene	13.379	105	86541	5.066	ug/l		98
86) p-Isopropyltoluene	13.489	119	71432	5.059	ug/l		100
87) 1,3-Dichlorobenzene	13.495	146	37803	5.271	ug/l		99
88) 1,4-Dichlorobenzene	13.574	146	37516	5.340	ug/l		94
89) n-Butylbenzene	13.818	91	70505	5.090	ug/l		98
90) Hexachloroethane	14.086	117	12586	5.154	ug/l		98
91) 1,2-Dichlorobenzene	13.867	146	33137	5.213	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.483	75	3359	5.501	ug/l		96
93) 1,2,4-Trichlorobenzene	15.123	180	20425	5.328	ug/l		93
94) Hexachlorobutadiene	15.226	225	9622	5.297	ug/l		99
95) Naphthalene	15.360	128	47376	5.027	ug/l		98
96) 1,2,3-Trichlorobenzene	15.549	180	17912	5.157	ug/l		94

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031891.D
Acq On : 22 Jul 2025 09:05
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 07:59:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

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

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

ICAL Form

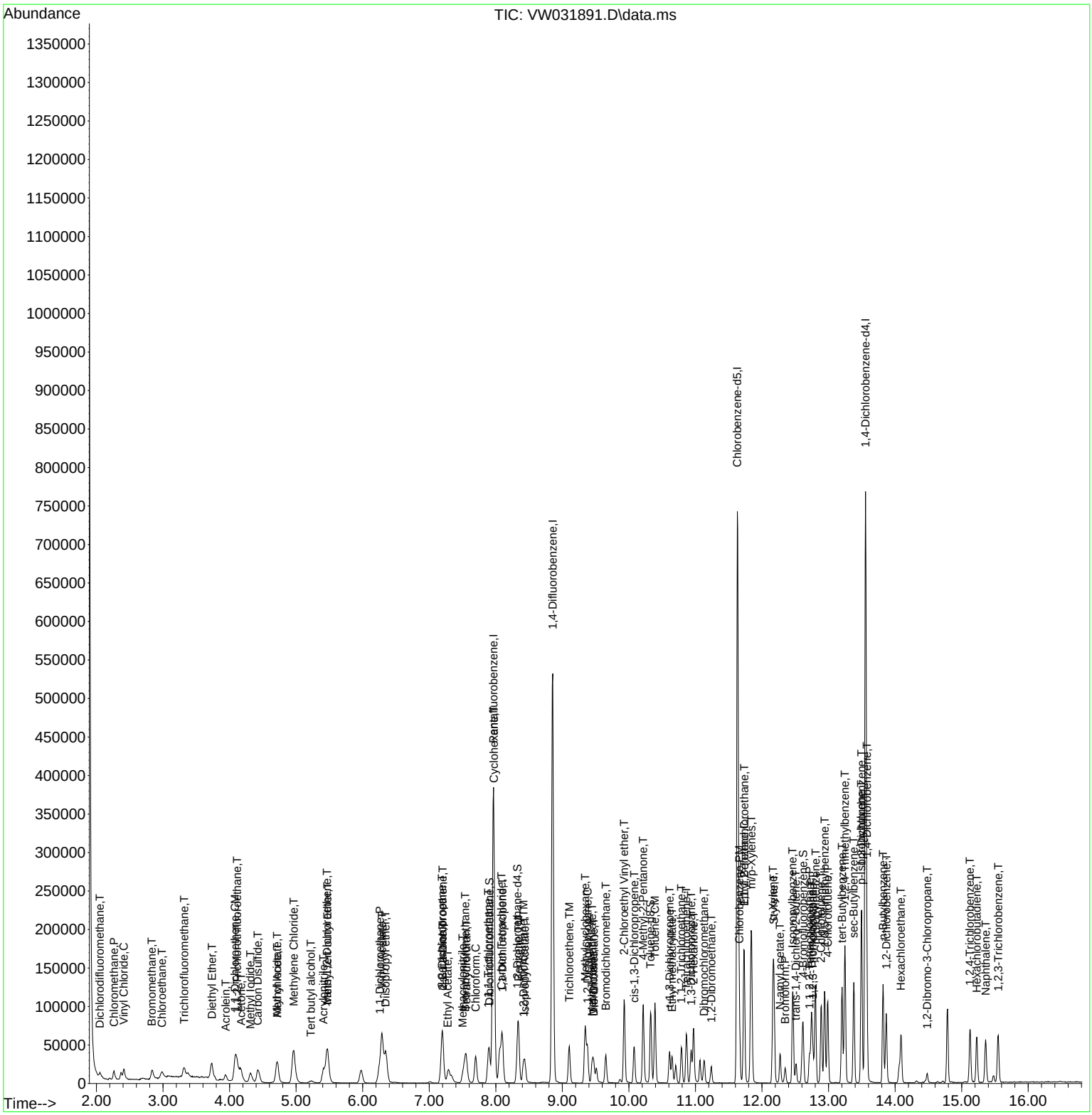
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031891.D
Acq On : 22 Jul 2025 09:05
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 23 07:59:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031892.D
Acq On : 22 Jul 2025 09:37
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:00:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	231127	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	416059	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	372788	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	174884	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	34413	9.843	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 19.680%#			
35) Dibromofluoromethane	7.898	113	29377	10.391	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 20.780%#			
50) Toluene-d8	10.325	98	108902	10.178	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 20.360%#			
62) 4-Bromofluorobenzene	12.617	95	42871	10.434	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 20.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.052	85	16819	9.791	ug/l	90
3) Chloromethane	2.253	50	21940	9.951	ug/l	99
4) Vinyl Chloride	2.405	62	28422	9.924	ug/l	95
5) Bromomethane	2.826	94	20976	9.946	ug/l	92
6) Chloroethane	2.972	64	18282	9.672	ug/l	95
7) Trichlorofluoromethane	3.308	101	25531	8.801	ug/l	93
8) Diethyl Ether	3.722	74	17727	9.148	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.100	101	27862	9.986	ug/l	100
10) Methyl Iodide	4.313	142	40718	9.760	ug/l	99
11) Tert butyl alcohol	5.222	59	9045	44.010	ug/l #	88
12) 1,1-Dichloroethene	4.076	96	30316	9.837	ug/l	94
13) Acrolein	3.929	56	16101	48.430	ug/l	100
14) Allyl chloride	4.704	41	45698	9.525	ug/l	99
15) Acrylonitrile	5.405	53	39188	45.235	ug/l	97
16) Acetone	4.167	43	43690	52.659	ug/l	96
17) Carbon Disulfide	4.417	76	75927	9.499	ug/l	97
18) Methyl Acetate	4.710	43	19716	8.625	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	51288	9.632	ug/l	99
20) Methylene Chloride	4.954	84	43038	8.241	ug/l	98
21) trans-1,2-Dichloroethene	5.454	96	31392	9.600	ug/l	97
22) Diisopropyl ether	6.344	45	90747	9.453	ug/l	98
23) Vinyl Acetate	6.283	43	284185	45.312	ug/l	98
24) 1,1-Dichloroethane	6.246	63	58334	9.760	ug/l	98
25) 2-Butanone	7.197	43	53335	46.984	ug/l	100
26) 2,2-Dichloropropane	7.191	77	32523	9.611	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	36460	9.485	ug/l	98
28) Bromochloromethane	7.526	49	24018	9.597	ug/l	97
29) Tetrahydrofuran	7.551	42	33119	44.500	ug/l	98
30) Chloroform	7.691	83	61757	9.854	ug/l	98
31) Cyclohexane	7.971	56	54338	10.133	ug/l #	95
32) 1,1,1-Trichloroethane	7.886	97	46989	9.853	ug/l	98
36) 1,1-Dichloropropene	8.093	75	44218	10.184	ug/l	99
37) Ethyl Acetate	7.270	43	23295	9.405	ug/l	99
38) Carbon Tetrachloride	8.081	117	41429	9.943	ug/l	98
39) Methylcyclohexane	9.343	83	53466	9.785	ug/l	95
40) Benzene	8.337	78	128121	9.969	ug/l	97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031892.D
Acq On : 22 Jul 2025 09:37
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:00:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	14893m	10.209	ug/l		
42) 1,2-Dichloroethane	8.410	62	40250	9.785	ug/l		99
43) Isopropyl Acetate	8.435	43	40842	9.109	ug/l		99
44) Trichloroethene	9.099	130	30934	10.126	ug/l		94
45) 1,2-Dichloropropane	9.374	63	30529	9.863	ug/l		93
46) Dibromomethane	9.465	93	18831	9.814	ug/l		96
47) Bromodichloromethane	9.648	83	45402	9.868	ug/l		98
48) Methyl methacrylate	9.441	41	19089	8.949	ug/l		99
49) 1,4-Dioxane	9.471	88	3526	184.165	ug/l	#	72
51) 4-Methyl-2-Pentanone	10.215	43	112498	45.845	ug/l		98
52) Toluene	10.392	92	83069	10.054	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	41264	9.349	ug/l		96
54) cis-1,3-Dichloropropene	10.081	75	48135	9.550	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	24676	9.682	ug/l		95
56) Ethyl methacrylate	10.648	69	32317	8.978	ug/l		99
57) 1,3-Dichloropropane	10.934	76	43658	9.723	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.928	63	85410	46.194	ug/l		100
59) 2-Hexanone	10.971	43	78182	45.837	ug/l		99
60) Dibromochloromethane	11.129	129	28189	9.486	ug/l		99
61) 1,2-Dibromoethane	11.239	107	24219	9.617	ug/l		99
64) Tetrachloroethene	10.861	164	24918	10.138	ug/l		96
65) Chlorobenzene	11.660	112	91460	10.024	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.733	131	27287	9.647	ug/l		98
67) Ethyl Benzene	11.733	91	157107	9.801	ug/l		100
68) m/p-Xylenes	11.843	106	119437	19.791	ug/l		97
69) o-Xylene	12.166	106	55307	9.684	ug/l		98
70) Styrene	12.178	104	93933	9.660	ug/l		99
71) Bromoform	12.349	173	13549	8.759	ug/l	#	97
73) Isopropylbenzene	12.458	105	147152	9.698	ug/l		100
74) N-amyl acetate	12.269	43	35992	8.774	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.714	83	29777	9.245	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	22414m	9.362	ug/l		
77) Bromobenzene	12.739	156	31681	9.650	ug/l		98
78) n-propylbenzene	12.800	91	180937	9.709	ug/l		98
79) 2-Chlorotoluene	12.891	91	108108	9.716	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	122504	9.626	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	8950	8.558	ug/l		94
82) 4-Chlorotoluene	12.983	91	117523	10.068	ug/l		98
83) tert-Butylbenzene	13.202	119	104397	9.630	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	127309	9.883	ug/l		100
85) sec-Butylbenzene	13.379	105	160534	9.861	ug/l		100
86) p-Isopropyltoluene	13.495	119	131018	9.737	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	66474	9.727	ug/l		99
88) 1,4-Dichlorobenzene	13.574	146	66689	9.961	ug/l		97
89) n-Butylbenzene	13.818	91	125846	9.534	ug/l		99
90) Hexachloroethane	14.086	117	21002	9.026	ug/l		93
91) 1,2-Dichlorobenzene	13.867	146	59263	9.785	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.482	75	5072	8.716	ug/l		95
93) 1,2,4-Trichlorobenzene	15.129	180	33290	9.114	ug/l		99
94) Hexachlorobutadiene	15.226	225	16064	9.281	ug/l		93
95) Naphthalene	15.360	128	78956	8.792	ug/l		98
96) 1,2,3-Trichlorobenzene	15.549	180	31394	9.486	ug/l		92

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031892.D
Acq On : 22 Jul 2025 09:37
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:00:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

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

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

ICAL Form

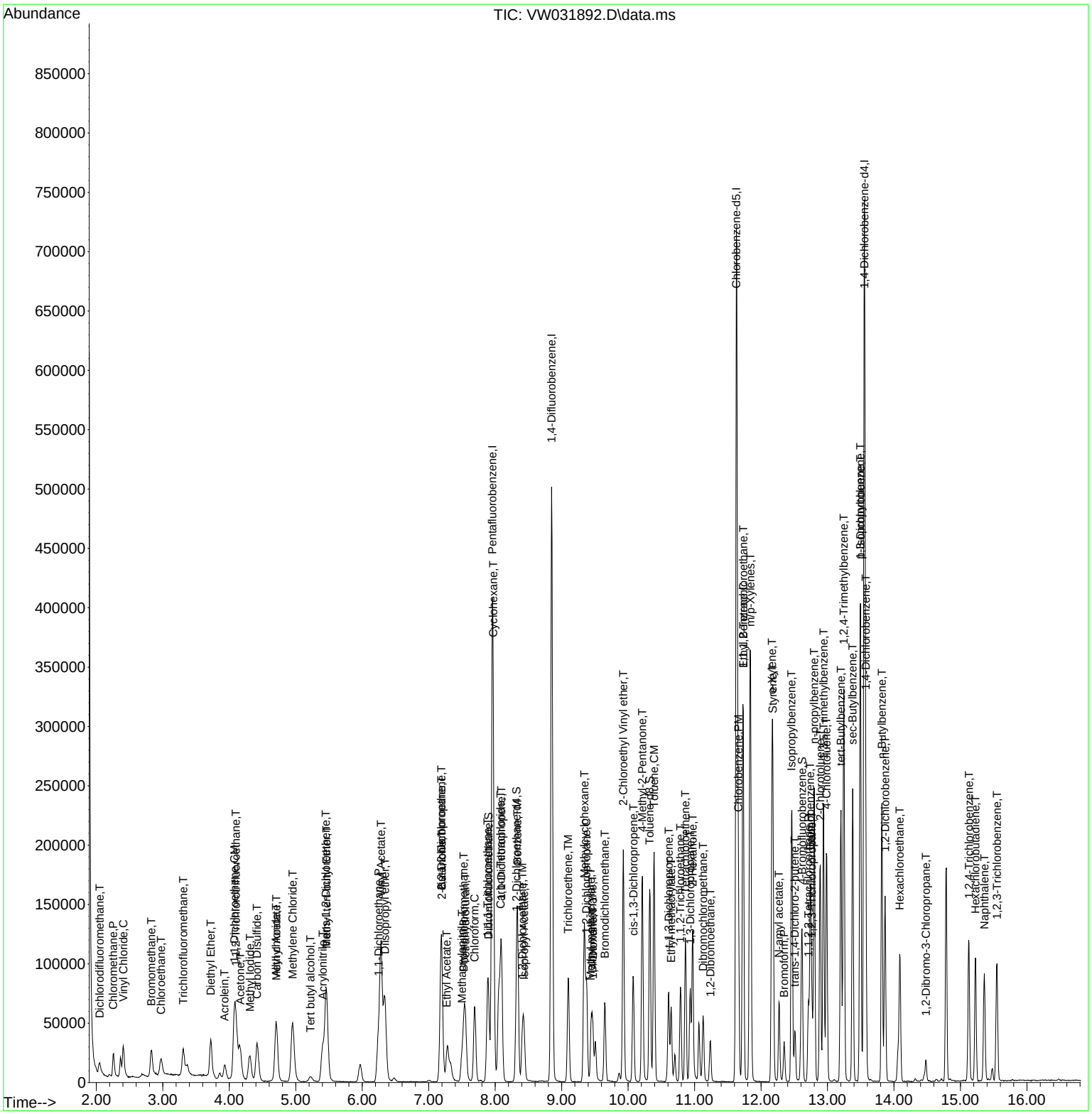
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031892.D
Acq On : 22 Jul 2025 09:37
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 23 08:00:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031893.D
Acq On : 22 Jul 2025 10:17
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 23 08:01:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	229449	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	418770	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	369653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	174259	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	71753	20.672	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	41.340%#		
35) Dibromofluoromethane	7.892	113	57971	20.372	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 134		Recovery =	40.740%#		
50) Toluene-d8	10.325	98	222244	20.636	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	41.280%#		
62) 4-Bromofluorobenzene	12.617	95	86515	20.921	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	41.840%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	32547	19.086	ug/l	91
3) Chloromethane	2.253	50	42396	19.370	ug/l	99
4) Vinyl Chloride	2.405	62	56162	19.752	ug/l	95
5) Bromomethane	2.826	94	40732	19.454	ug/l	94
6) Chloroethane	2.972	64	36178	19.279	ug/l	98
7) Trichlorofluoromethane	3.302	101	52674	18.291	ug/l	97
8) Diethyl Ether	3.716	74	39501	20.534	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.106	101	53456	19.298	ug/l	98
10) Methyl Iodide	4.301	142	82715	19.972	ug/l	99
11) Tert butyl alcohol	5.222	59	21622	105.975	ug/l	99
12) 1,1-Dichloroethene	4.076	96	59622	19.488	ug/l	97
13) Acrolein	3.930	56	34117	115.420	ug/l	99
14) Allyl chloride	4.704	41	94691	19.882	ug/l	99
15) Acrylonitrile	5.399	53	89035	103.525	ug/l	99
16) Acetone	4.161	43	85144	103.374	ug/l	96
17) Carbon Disulfide	4.417	76	156802	19.761	ug/l	100
18) Methyl Acetate	4.710	43	48524	21.384	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	110536	20.910	ug/l	94
20) Methylene Chloride	4.948	84	83480	20.998	ug/l	97
21) trans-1,2-Dichloroethene	5.454	96	63984	19.711	ug/l	97
22) Diisopropyl ether	6.332	45	193706	20.325	ug/l	94
23) Vinyl Acetate	6.283	43	629578	101.117	ug/l	98
24) 1,1-Dichloroethane	6.246	63	116889	19.699	ug/l	98
25) 2-Butanone	7.191	43	121949	108.213	ug/l	98
26) 2,2-Dichloropropane	7.185	77	63903	19.023	ug/l	97
27) cis-1,2-Dichloroethene	7.191	96	75384	19.753	ug/l	98
28) Bromochloromethane	7.526	49	50074	20.156	ug/l #	15
29) Tetrahydrofuran	7.551	42	78147	105.769	ug/l	99
30) Chloroform	7.691	83	125023	20.096	ug/l	97
31) Cyclohexane	7.965	56	98980	18.594	ug/l #	94
32) 1,1,1-Trichloroethane	7.886	97	92496	19.538	ug/l	98
36) 1,1-Dichloropropene	8.093	75	87130	19.938	ug/l	100
37) Ethyl Acetate	7.277	43	50830	20.390	ug/l	100
38) Carbon Tetrachloride	8.081	117	84031	20.036	ug/l	99
39) Methylcyclohexane	9.337	83	106658	19.394	ug/l	97
40) Benzene	8.331	78	262100	20.261	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031893.D
Acq On : 22 Jul 2025 10:17
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:01:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	29705	20.230	ug/l		92
42) 1,2-Dichloroethane	8.410	62	86447	20.880	ug/l		99
43) Isopropyl Acetate	8.435	43	93094	20.628	ug/l		99
44) Trichloroethene	9.099	130	59670	19.406	ug/l		91
45) 1,2-Dichloropropane	9.374	63	63028	20.231	ug/l		99
46) Dibromomethane	9.465	93	40434	20.937	ug/l		98
47) Bromodichloromethane	9.648	83	93907	20.278	ug/l		98
48) Methyl methacrylate	9.441	41	45551	21.215	ug/l		99
49) 1,4-Dioxane	9.465	88	7579	393.293	ug/l	#	79
51) 4-Methyl-2-Pentanone	10.209	43	265574	107.527	ug/l		100
52) Toluene	10.392	92	168089	20.213	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	89603	20.170	ug/l		97
54) cis-1,3-Dichloropropene	10.075	75	100637	19.838	ug/l		96
55) 1,1,2-Trichloroethane	10.788	97	52531	20.477	ug/l		91
56) Ethyl methacrylate	10.648	69	74127	20.460	ug/l		99
57) 1,3-Dichloropropane	10.934	76	94430	20.894	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.928	63	191363	102.829	ug/l		100
59) 2-Hexanone	10.971	43	184643	107.552	ug/l		98
60) Dibromochloromethane	11.129	129	60033	20.071	ug/l		99
61) 1,2-Dibromoethane	11.233	107	53321	21.035	ug/l		96
64) Tetrachloroethene	10.867	164	49304	20.230	ug/l		93
65) Chlorobenzene	11.654	112	185932	20.552	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.733	131	58246	20.767	ug/l		97
67) Ethyl Benzene	11.727	91	320050	20.134	ug/l		100
68) m/p-Xylenes	11.837	106	245015	40.945	ug/l		97
69) o-Xylene	12.166	106	114484	20.216	ug/l		97
70) Styrene	12.178	104	198720	20.610	ug/l		99
71) Bromoform	12.349	173	30762	20.055	ug/l	#	97
73) Isopropylbenzene	12.459	105	294447	19.474	ug/l		100
74) N-amyl acetate	12.270	43	82784	20.253	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.715	83	67200	20.939	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	49056m	20.562	ug/l		
77) Bromobenzene	12.745	156	68424	20.916	ug/l		91
78) n-propylbenzene	12.800	91	367105	19.769	ug/l		100
79) 2-Chlorotoluene	12.891	91	221355	19.964	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	252317	19.898	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.513	75	20950	20.104	ug/l		96
82) 4-Chlorotoluene	12.983	91	230806	19.843	ug/l		100
83) tert-Butylbenzene	13.202	119	211034	19.537	ug/l		100
84) 1,2,4-Trimethylbenzene	13.245	105	254520	19.830	ug/l		98
85) sec-Butylbenzene	13.379	105	320882	19.782	ug/l		100
86) p-Isopropyltoluene	13.495	119	262000	19.541	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	140624	20.650	ug/l		96
88) 1,4-Dichlorobenzene	13.574	146	138374	20.743	ug/l		97
89) n-Butylbenzene	13.818	91	255308	19.411	ug/l		99
90) Hexachloroethane	14.086	117	45174	19.485	ug/l		93
91) 1,2-Dichlorobenzene	13.867	146	123056	20.390	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.483	75	11802	20.355	ug/l		96
93) 1,2,4-Trichlorobenzene	15.129	180	72217	19.842	ug/l		93
94) Hexachlorobutadiene	15.226	225	33880	19.644	ug/l		98
95) Naphthalene	15.360	128	176597	19.736	ug/l		99
96) 1,2,3-Trichlorobenzene	15.543	180	63227	19.173	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031893.D
Acq On : 22 Jul 2025 10:17
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:01:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

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

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

Quantitation Report   (QT Reviewed)

ICAL Form

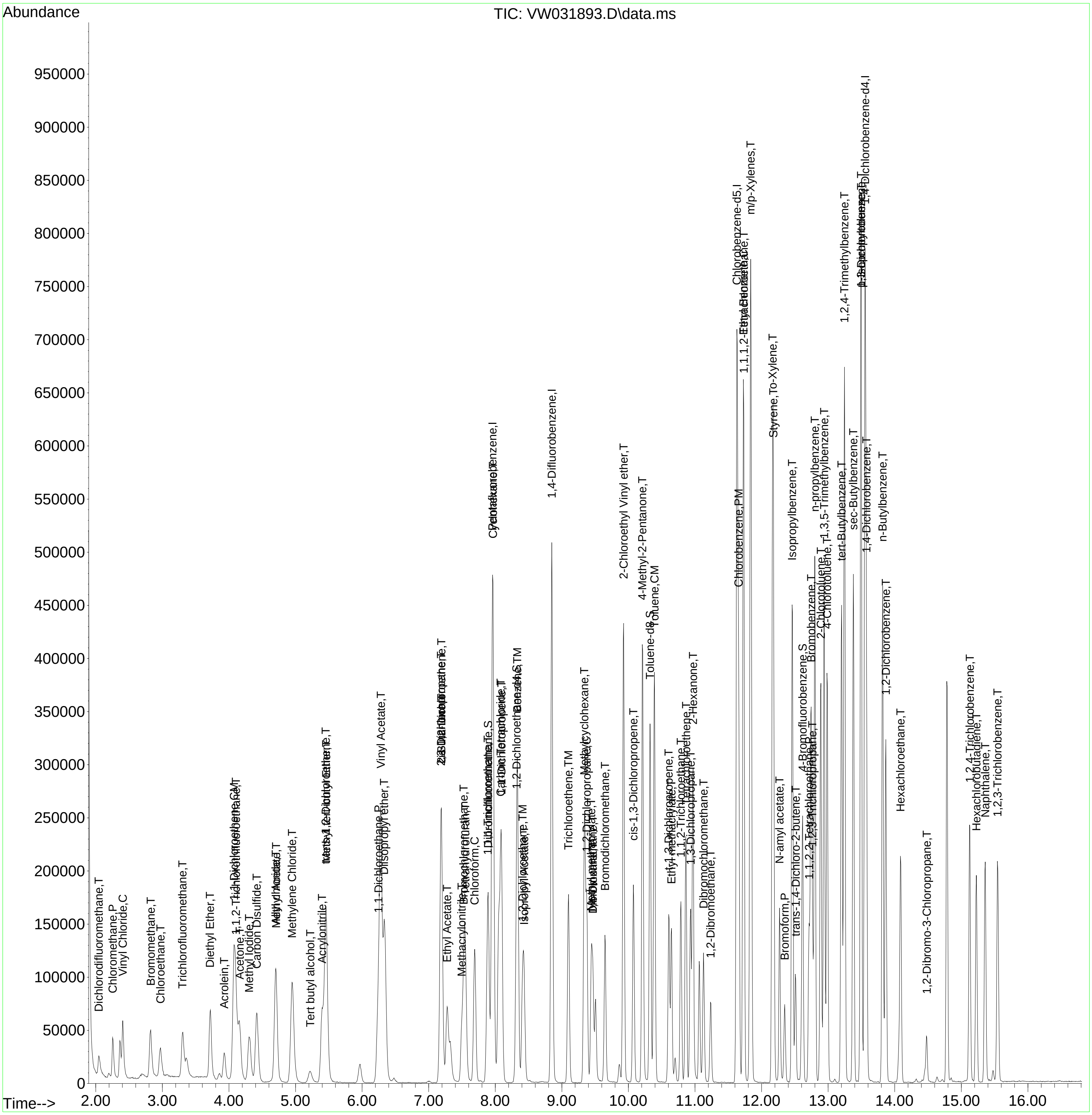
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031893.D
Acq On   : 22 Jul 2025 10:17
Operator : SY/MD
Sample   : VSTDICC020
Misc   : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5   Sample Multiplier: 1

Quant Time: Jul 23 08:01:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt   07/24/2025
Supervised By :Mahesh Dadoda   07/24/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031894.D
Acq On : 22 Jul 2025 10:39
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:02:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	225122	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	418592	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	358393	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	168778	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	159650	46.880	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 93.760%			
35) Dibromofluoromethane	7.904	113	136603	48.025	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 96.060%			
50) Toluene-d8	10.325	98	512311	47.590	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 95.180%			
62) 4-Bromofluorobenzene	12.617	95	192744	46.629	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 93.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	80644	48.198	ug/l	100
3) Chloromethane	2.259	50	97775	45.529	ug/l	100
4) Vinyl Chloride	2.411	62	138448	49.629	ug/l	100
5) Bromomethane	2.832	94	97813	47.615	ug/l	100
6) Chloroethane	2.978	64	88298	47.958	ug/l	100
7) Trichlorofluoromethane	3.314	101	152835	54.091	ug/l	100
8) Diethyl Ether	3.728	74	87596	46.411	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.112	101	132678	48.819	ug/l	100
10) Methyl Iodide	4.307	142	194830	47.947	ug/l	100
11) Tert butyl alcohol	5.222	59	48976	244.659	ug/l	100
12) 1,1-Dichloroethene	4.076	96	145251	48.388	ug/l	100
13) Acrolein	3.942	56	59249	217.217	ug/l	100
14) Allyl chloride	4.710	41	227564	48.698	ug/l	100
15) Acrylonitrile	5.405	53	205004	242.948	ug/l	100
16) Acetone	4.167	43	186627	230.941	ug/l	100
17) Carbon Disulfide	4.423	76	381111	48.954	ug/l	100
18) Methyl Acetate	4.716	43	106992	48.056	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	254734	49.114	ug/l	100
20) Methylene Chloride	4.954	84	170144	49.149	ug/l	100
21) trans-1,2-Dichloroethene	5.466	96	155488	48.820	ug/l	100
22) Diisopropyl ether	6.344	45	465380	49.771	ug/l	100
23) Vinyl Acetate	6.289	43	1525293	249.686	ug/l	100
24) 1,1-Dichloroethane	6.246	63	284373	48.847	ug/l	100
25) 2-Butanone	7.191	43	266059	240.629	ug/l	100
26) 2,2-Dichloropropane	7.191	77	166236	50.437	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	185527	49.549	ug/l	100
28) Bromochloromethane	7.532	49	118407	48.577	ug/l	100
29) Tetrahydrofuran	7.557	42	179179	247.172	ug/l	100
30) Chloroform	7.691	83	295801	48.459	ug/l	100
31) Cyclohexane	7.971	56	247509	47.389	ug/l	100
32) 1,1,1-Trichloroethane	7.886	97	227418	48.961	ug/l	100
36) 1,1-Dichloropropene	8.099	75	213142	48.794	ug/l	100
37) Ethyl Acetate	7.276	43	123663	49.627	ug/l	100
38) Carbon Tetrachloride	8.081	117	206216	49.190	ug/l	100
39) Methylcyclohexane	9.343	83	274858	50.000	ug/l	100
40) Benzene	8.337	78	636145	49.197	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031894.D
Acq On : 22 Jul 2025 10:39
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:02:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	75019	51.112	ug/l		100
42) 1,2-Dichloroethane	8.416	62	200964	48.561	ug/l		100
43) Isopropyl Acetate	8.435	43	222170	49.250	ug/l		100
44) Trichloroethene	9.105	130	151736	49.368	ug/l		100
45) 1,2-Dichloropropane	9.374	63	150788	48.420	ug/l		100
46) Dibromomethane	9.465	93	94479	48.942	ug/l		100
47) Bromodichloromethane	9.648	83	223852	48.359	ug/l		100
48) Methyl methacrylate	9.441	41	107066	49.887	ug/l		100
49) 1,4-Dioxane	9.465	88	21855	1134.591	ug/l		100
51) 4-Methyl-2-Pentanone	10.215	43	617526	250.133	ug/l		100
52) Toluene	10.392	92	409807	49.301	ug/l		100
53) t-1,3-Dichloropropene	10.611	75	218411	49.187	ug/l		100
54) cis-1,3-Dichloropropene	10.075	75	251812	49.658	ug/l		100
55) 1,1,2-Trichloroethane	10.788	97	125532	48.955	ug/l		100
56) Ethyl methacrylate	10.648	69	184989	51.081	ug/l		100
57) 1,3-Dichloropropane	10.934	76	223219	49.412	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	466986	251.042	ug/l		100
59) 2-Hexanone	10.971	43	430358	250.784	ug/l		100
60) Dibromochloromethane	11.135	129	147041	49.183	ug/l		100
61) 1,2-Dibromoethane	11.233	107	124264	49.043	ug/l		100
64) Tetrachloroethene	10.867	164	116190	49.172	ug/l		100
65) Chlorobenzene	11.660	112	445905	50.836	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.733	131	135280	49.749	ug/l		100
67) Ethyl Benzene	11.733	91	797666	51.758	ug/l		100
68) m/p-Xylenes	11.836	106	590027	101.698	ug/l		100
69) o-Xylene	12.166	106	285328	51.967	ug/l		100
70) Styrene	12.178	104	487647	52.165	ug/l		100
71) Bromoform	12.349	173	78409	52.724	ug/l	#	100
73) Isopropylbenzene	12.464	105	743506	50.771	ug/l		100
74) N-amyl acetate	12.269	43	201296	50.845	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.714	83	154182	49.601	ug/l		100
76) 1,2,3-Trichloropropane	12.769	75	116529m	50.431	ug/l		
77) Bromobenzene	12.745	156	153362	48.402	ug/l		100
78) n-propylbenzene	12.800	91	899940	50.036	ug/l		100
79) 2-Chlorotoluene	12.891	91	528504	49.215	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	606401	49.373	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.513	75	50710	50.242	ug/l		100
82) 4-Chlorotoluene	12.983	91	553292	49.113	ug/l		100
83) tert-Butylbenzene	13.202	119	519792	49.685	ug/l		100
84) 1,2,4-Trimethylbenzene	13.245	105	621979	50.033	ug/l		100
85) sec-Butylbenzene	13.379	105	779564	49.619	ug/l		100
86) p-Isopropyltoluene	13.495	119	648382	49.930	ug/l		100
87) 1,3-Dichlorobenzene	13.495	146	322462	48.890	ug/l		100
88) 1,4-Dichlorobenzene	13.574	146	307895	47.653	ug/l		100
89) n-Butylbenzene	13.818	91	645926	50.705	ug/l		100
90) Hexachloroethane	14.086	117	108580	48.355	ug/l		100
91) 1,2-Dichlorobenzene	13.867	146	283107	48.433	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.482	75	27088	48.235	ug/l		100
93) 1,2,4-Trichlorobenzene	15.129	180	166119	47.124	ug/l		100
94) Hexachlorobutadiene	15.226	225	82516	49.399	ug/l		100
95) Naphthalene	15.360	128	427849	49.367	ug/l		100
96) 1,2,3-Trichlorobenzene	15.549	180	157823	49.413	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031894.D
Acq On : 22 Jul 2025 10:39
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:02:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

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

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

ICAL Form

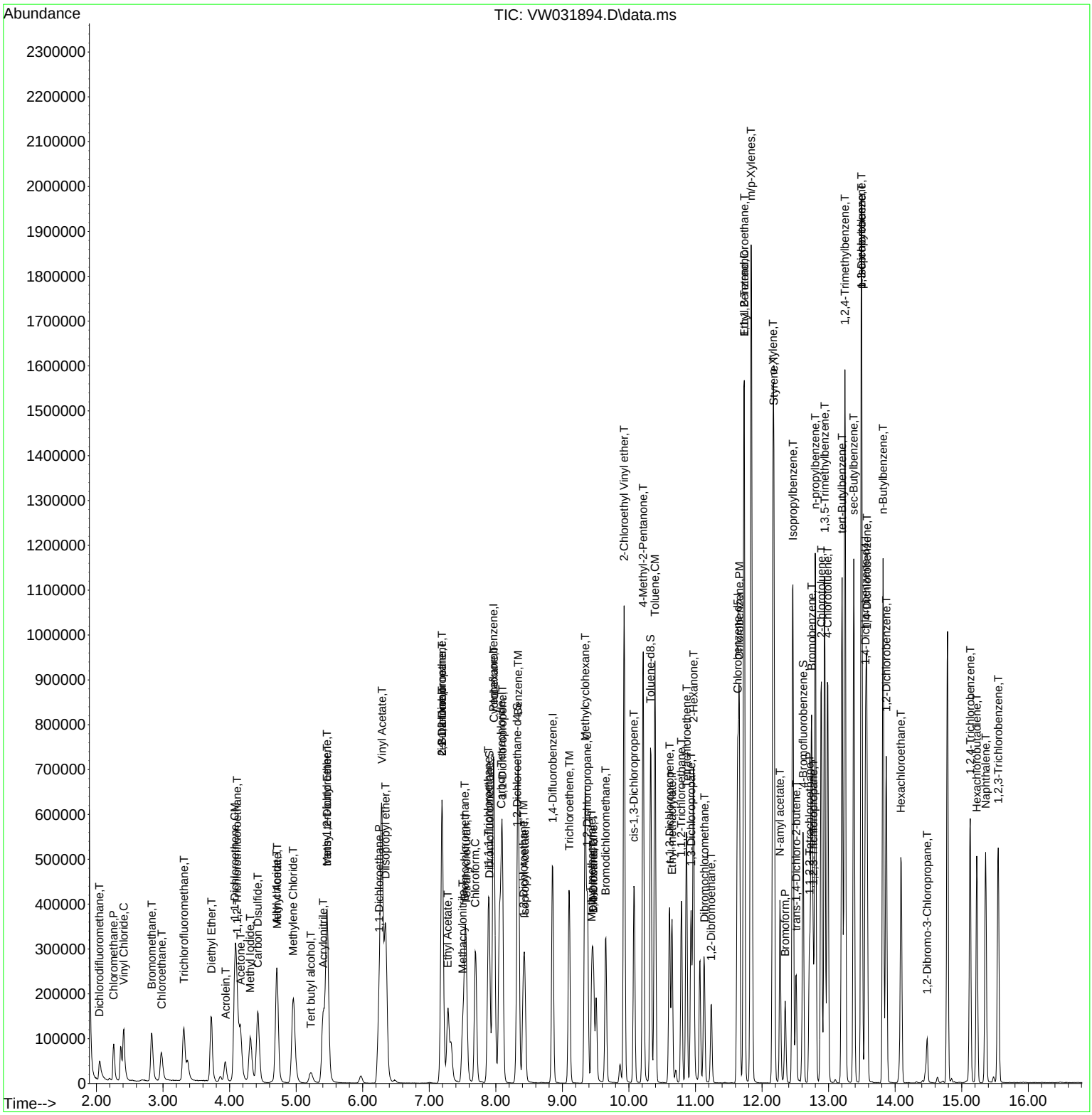
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031894.D
Acq On : 22 Jul 2025 10:39
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 23 08:02:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031895.D
Acq On : 22 Jul 2025 11:18
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:03:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.953	168	221447	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.849	114	402410	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	371635	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	158257	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	317755	94.854	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 189.700%#			
35) Dibromofluoromethane	7.892	113	265829	97.216	ug/l	-0.01
Spiked Amount 50.000	Range 70 - 134		Recovery = 194.440%#			
50) Toluene-d8	10.325	98	1013207	97.904	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 195.800%#			
62) 4-Bromofluorobenzene	12.617	95	383449	96.494	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 192.980%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	163348	99.248	ug/l	99
3) Chloromethane	2.259	50	203485	96.326	ug/l	98
4) Vinyl Chloride	2.405	62	273463	99.654	ug/l	99
5) Bromomethane	2.820	94	198486	98.226	ug/l	99
6) Chloroethane	2.966	64	181340	100.126	ug/l	99
7) Trichlorofluoromethane	3.301	101	276765	99.578	ug/l	96
8) Diethyl Ether	3.722	74	177440	95.572	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.106	101	258448	96.675	ug/l	99
10) Methyl Iodide	4.307	142	396765	99.264	ug/l	100
11) Tert butyl alcohol	5.216	59	108215	549.558	ug/l	100
12) 1,1-Dichloroethene	4.076	96	295280	100.001	ug/l	93
13) Acrolein	3.929	56	126741	529.499	ug/l	100
14) Allyl chloride	4.704	41	461159	100.325	ug/l	99
15) Acrylonitrile	5.399	53	434270	523.190	ug/l	99
16) Acetone	4.161	43	372157	468.167	ug/l	98
17) Carbon Disulfide	4.417	76	778367	101.641	ug/l	98
18) Methyl Acetate	4.704	43	233619	106.673	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	510872	100.133	ug/l	99
20) Methylene Chloride	4.954	84	323479	99.782	ug/l	96
21) trans-1,2-Dichloroethene	5.454	96	309509	98.792	ug/l	98
22) Diisopropyl ether	6.338	45	919619	99.982	ug/l	98
23) Vinyl Acetate	6.277	43	3184428	529.933	ug/l	99
24) 1,1-Dichloroethane	6.246	63	571894	99.864	ug/l	99
25) 2-Butanone	7.191	43	563092	517.723	ug/l	96
26) 2,2-Dichloropropane	7.179	77	310099	95.647	ug/l	97
27) cis-1,2-Dichloroethene	7.191	96	374781	101.755	ug/l	99
28) Bromochloromethane	7.532	49	239942	100.070	ug/l	98
29) Tetrahydrofuran	7.551	42	380062	532.985	ug/l	100
30) Chloroform	7.691	83	597178	99.456	ug/l	96
31) Cyclohexane	7.971	56	487369	94.861	ug/l	100
32) 1,1,1-Trichloroethane	7.880	97	447021	97.836	ug/l	99
36) 1,1-Dichloropropene	8.093	75	424179	101.012	ug/l	100
37) Ethyl Acetate	7.270	43	255825	106.793	ug/l	100
38) Carbon Tetrachloride	8.081	117	415729	103.155	ug/l	92
39) Methylcyclohexane	9.343	83	554981	105.017	ug/l	96
40) Benzene	8.337	78	1262395	101.554	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031895.D
Acq On : 22 Jul 2025 11:18
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:03:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	151519	107.383	ug/l		97
42) 1,2-Dichloroethane	8.410	62	408100	102.578	ug/l		100
43) Isopropyl Acetate	8.435	43	474069	109.315	ug/l		99
44) Trichloroethene	9.099	130	301416	102.011	ug/l		98
45) 1,2-Dichloropropane	9.374	63	303214	101.282	ug/l		99
46) Dibromomethane	9.465	93	189553	102.141	ug/l		95
47) Bromodichloromethane	9.648	83	468786	105.344	ug/l		99
48) Methyl methacrylate	9.441	41	226471	109.767	ug/l		100
49) 1,4-Dioxane	9.465	88	43032	2323.819	ug/l	#	84
51) 4-Methyl-2-Pentanone	10.209	43	1288323	542.828	ug/l		100
52) Toluene	10.392	92	803397	100.537	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	463061	108.477	ug/l		99
54) cis-1,3-Dichloropropene	10.075	75	519672	106.602	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	254950	103.424	ug/l		96
56) Ethyl methacrylate	10.648	69	392187	112.649	ug/l		99
57) 1,3-Dichloropropane	10.934	76	454447	104.643	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	981034	548.592	ug/l		99
59) 2-Hexanone	10.965	43	892662	541.101	ug/l		99
60) Dibromochloromethane	11.129	129	310954	108.191	ug/l		97
61) 1,2-Dibromoethane	11.239	107	255989	105.093	ug/l		98
64) Tetrachloroethene	10.861	164	236845	96.662	ug/l		88
65) Chlorobenzene	11.654	112	886811	97.499	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.727	131	280110	99.339	ug/l		99
67) Ethyl Benzene	11.727	91	1560463	97.646	ug/l		98
68) m/p-Xylenes	11.837	106	1180270	196.185	ug/l		98
69) o-Xylene	12.166	106	571902	100.449	ug/l		98
70) Styrene	12.178	104	948526	97.850	ug/l		97
71) Bromoform	12.349	173	166090	107.703	ug/l	#	99
73) Isopropylbenzene	12.458	105	1460308	106.348	ug/l		100
74) N-amyl acetate	12.269	43	417442	112.451	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.708	83	310725	106.608	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	232716m	107.409	ug/l		
77) Bromobenzene	12.745	156	308168	103.725	ug/l		97
78) n-propylbenzene	12.800	91	1765379	104.679	ug/l		100
79) 2-Chlorotoluene	12.891	91	1046552	103.935	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	1241824	107.831	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	110340	116.589	ug/l		96
82) 4-Chlorotoluene	12.989	91	1070989	101.386	ug/l		100
83) tert-Butylbenzene	13.202	119	1052310	107.273	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	1198796	102.845	ug/l		99
85) sec-Butylbenzene	13.379	105	1502744	102.008	ug/l		98
86) p-Isopropyltoluene	13.495	119	1283789	105.433	ug/l		98
87) 1,3-Dichlorobenzene	13.495	146	625716	101.175	ug/l		98
88) 1,4-Dichlorobenzene	13.574	146	614573	101.442	ug/l		98
89) n-Butylbenzene	13.818	91	1255431	105.103	ug/l		99
90) Hexachloroethane	14.092	117	225644	107.168	ug/l		92
91) 1,2-Dichlorobenzene	13.867	146	570249	104.043	ug/l		94
92) 1,2-Dibromo-3-Chloropr...	14.476	75	57065	108.370	ug/l		98
93) 1,2,4-Trichlorobenzene	15.129	180	370704	112.151	ug/l		89
94) Hexachlorobutadiene	15.226	225	166160	106.085	ug/l		99
95) Naphthalene	15.360	128	922104	113.469	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	329679	110.082	ug/l		91

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031895.D
Acq On : 22 Jul 2025 11:18
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:03:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

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

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

ICAL Form

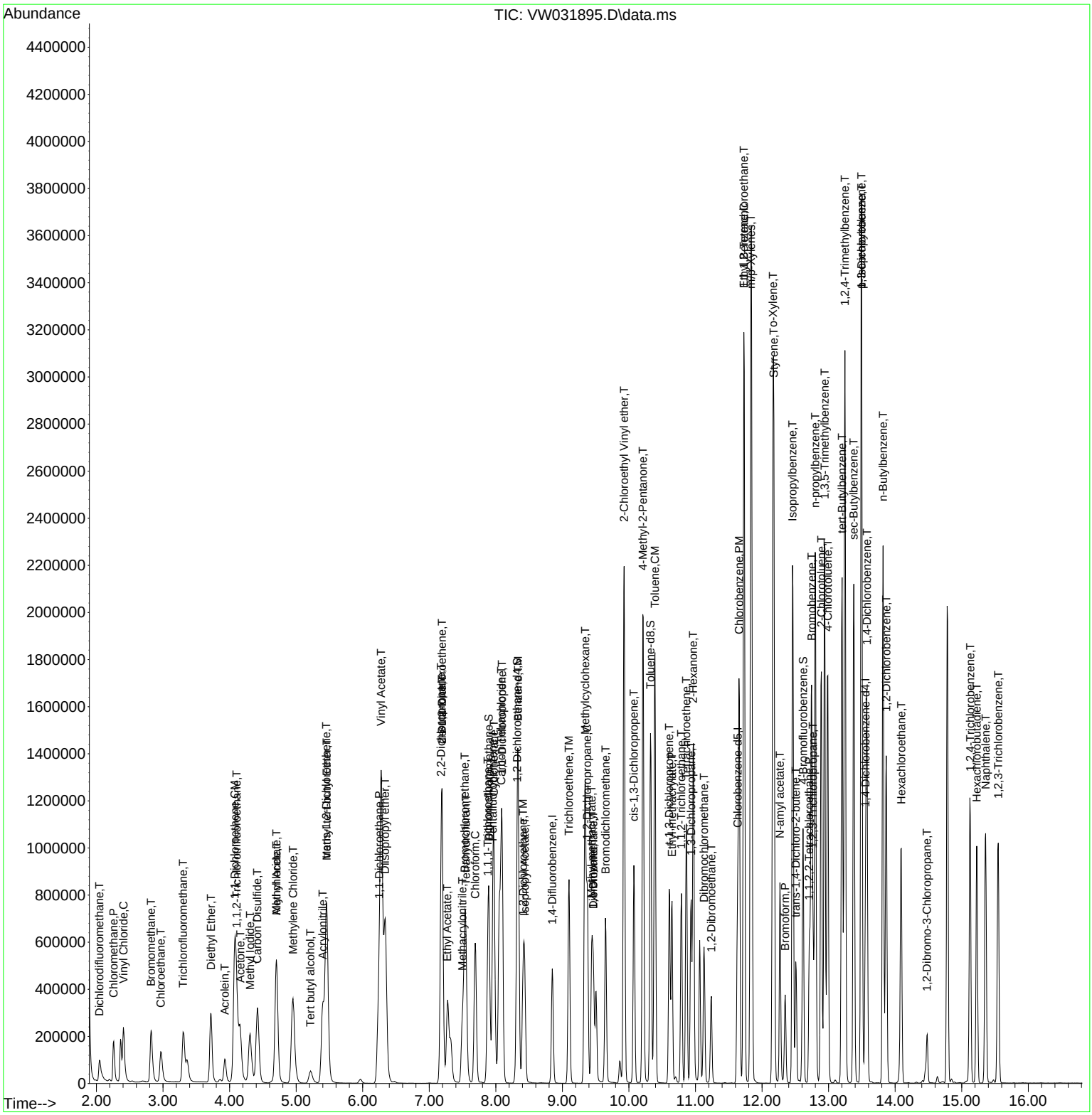
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031895.D
Acq On : 22 Jul 2025 11:18
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 23 08:03:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031896.D
Acq On : 22 Jul 2025 12:00
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:04:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	220427	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.849	114	410405	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	361839	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	160923	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	453594	136.031	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 272.060%#			
35) Dibromofluoromethane	7.898	113	399487	143.249	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 286.500%#			
50) Toluene-d8	10.324	98	1482591	140.469	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 280.940%#			
62) 4-Bromofluorobenzene	12.617	95	556999	137.437	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 274.880%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.045	85	236321	144.250	ug/l	97
3) Chloromethane	2.259	50	329540	156.720	ug/l	98
4) Vinyl Chloride	2.411	62	412456	151.000	ug/l	99
5) Bromomethane	2.820	94	302212	150.249	ug/l	100
6) Chloroethane	2.972	64	273738	151.843	ug/l	100
7) Trichlorofluoromethane	3.301	101	440230	159.125	ug/l	98
8) Diethyl Ether	3.722	74	261548	141.526	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.100	101	390066	146.583	ug/l	99
10) Methyl Iodide	4.307	142	595320	149.628	ug/l	99
11) Tert butyl alcohol	5.210	59	134310	685.235	ug/l	99
12) 1,1-Dichloroethene	4.076	96	442469	150.541	ug/l	93
13) Acrolein	3.929	56	164048	739.113	ug/l	99
14) Allyl chloride	4.697	41	703862	153.834	ug/l	99
15) Acrylonitrile	5.399	53	594863	719.982	ug/l	99
16) Acetone	4.155	43	538491	680.547	ug/l	100
17) Carbon Disulfide	4.417	76	1189183	156.005	ug/l	98
18) Methyl Acetate	4.704	43	318191	145.961	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	688978	135.668	ug/l	98
20) Methylene Chloride	4.947	84	477228	150.364	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	470689	150.934	ug/l	96
22) Diisopropyl ether	6.337	45	1345510	146.962	ug/l	98
23) Vinyl Acetate	6.283	43	4440675	742.410	ug/l	99
24) 1,1-Dichloroethane	6.246	63	856816	150.310	ug/l	100
25) 2-Butanone	7.191	43	749073	691.906	ug/l	95
26) 2,2-Dichloropropane	7.185	77	489368	151.639	ug/l	98
27) cis-1,2-Dichloroethene	7.185	96	549658	149.926	ug/l	97
28) Bromochloromethane	7.526	49	350866	147.009	ug/l	97
29) Tetrahydrofuran	7.551	42	493192	694.835	ug/l	100
30) Chloroform	7.691	83	885019	148.076	ug/l	98
31) Cyclohexane	7.965	56	732101	143.155	ug/l	96
32) 1,1,1-Trichloroethane	7.886	97	682184	149.995	ug/l	98
36) 1,1-Dichloropropene	8.093	75	632279	147.634	ug/l	99
37) Ethyl Acetate	7.270	43	344416	140.974	ug/l	100
38) Carbon Tetrachloride	8.081	117	623463	151.686	ug/l	98
39) Methylcyclohexane	9.343	83	811686	150.600	ug/l	99
40) Benzene	8.337	78	1867656	147.317	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031896.D
Acq On : 22 Jul 2025 12:00
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:04:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	204750	142.282	ug/l		96
42) 1,2-Dichloroethane	8.410	62	579516	142.827	ug/l		99
43) Isopropyl Acetate	8.435	43	643412	145.474	ug/l		99
44) Trichloroethene	9.099	130	452970	150.317	ug/l		98
45) 1,2-Dichloropropane	9.373	63	456144	149.396	ug/l		97
46) Dibromomethane	9.465	93	272269	143.854	ug/l		99
47) Bromodichloromethane	9.648	83	685853	151.120	ug/l		96
48) Methyl methacrylate	9.441	41	314142	149.293	ug/l		100
49) 1,4-Dioxane	9.459	88	56346	2983.527	ug/l	#	83
51) 4-Methyl-2-Pentanone	10.209	43	1683322	695.441	ug/l		99
52) Toluene	10.392	92	1214012	148.962	ug/l		100
53) t-1,3-Dichloropropene	10.605	75	679932	156.179	ug/l		97
54) cis-1,3-Dichloropropene	10.075	75	759882	152.840	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	363045	144.405	ug/l		92
56) Ethyl methacrylate	10.648	69	540138	152.123	ug/l		99
57) 1,3-Dichloropropane	10.934	76	632065	142.707	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.928	63	1375316	754.091	ug/l		98
59) 2-Hexanone	10.971	43	1166153	693.111	ug/l		100
60) Dibromochloromethane	11.129	129	442293	150.890	ug/l		100
61) 1,2-Dibromoethane	11.239	107	357193	143.785	ug/l		97
64) Tetrachloroethene	10.867	164	350332	146.849	ug/l		96
65) Chlorobenzene	11.660	112	1308167	147.719	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.727	131	415946	151.507	ug/l		99
67) Ethyl Benzene	11.727	91	2319514	149.072	ug/l		97
68) m/p-Xylenes	11.836	106	1740273	297.100	ug/l		100
69) o-Xylene	12.166	106	846824	152.763	ug/l		99
70) Styrene	12.178	104	1419800	150.432	ug/l		99
71) Bromoform	12.349	173	228504	152.187	ug/l	#	99
73) Isopropylbenzene	12.458	105	2118035	151.692	ug/l		99
74) N-amyl acetate	12.269	43	565165	149.722	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	419030	141.385	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	310612m	140.986	ug/l		
77) Bromobenzene	12.745	156	452752	149.865	ug/l		95
78) n-propylbenzene	12.800	91	2550787	148.745	ug/l		98
79) 2-Chlorotoluene	12.891	91	1538753	150.285	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	1765381	150.754	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.513	75	151238	157.156	ug/l		96
82) 4-Chlorotoluene	12.983	91	1582046	147.284	ug/l		98
83) tert-Butylbenzene	13.202	119	1484103	148.784	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	1754255	148.004	ug/l		99
85) sec-Butylbenzene	13.379	105	2245185	149.881	ug/l		99
86) p-Isopropyltoluene	13.495	119	1828574	147.687	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	897163	142.664	ug/l		98
88) 1,4-Dichlorobenzene	13.574	146	860596	139.697	ug/l		97
89) n-Butylbenzene	13.818	91	1809075	148.944	ug/l		97
90) Hexachloroethane	14.086	117	338316	158.018	ug/l		89
91) 1,2-Dichlorobenzene	13.867	146	794424	142.542	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.482	75	77276	144.321	ug/l		98
93) 1,2,4-Trichlorobenzene	15.122	180	487461	145.031	ug/l		93
94) Hexachlorobutadiene	15.226	225	234457	147.210	ug/l		96
95) Naphthalene	15.360	128	1247633	150.984	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	444087	145.827	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031896.D
Acq On : 22 Jul 2025 12:00
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:04:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

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

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

ICAL Form

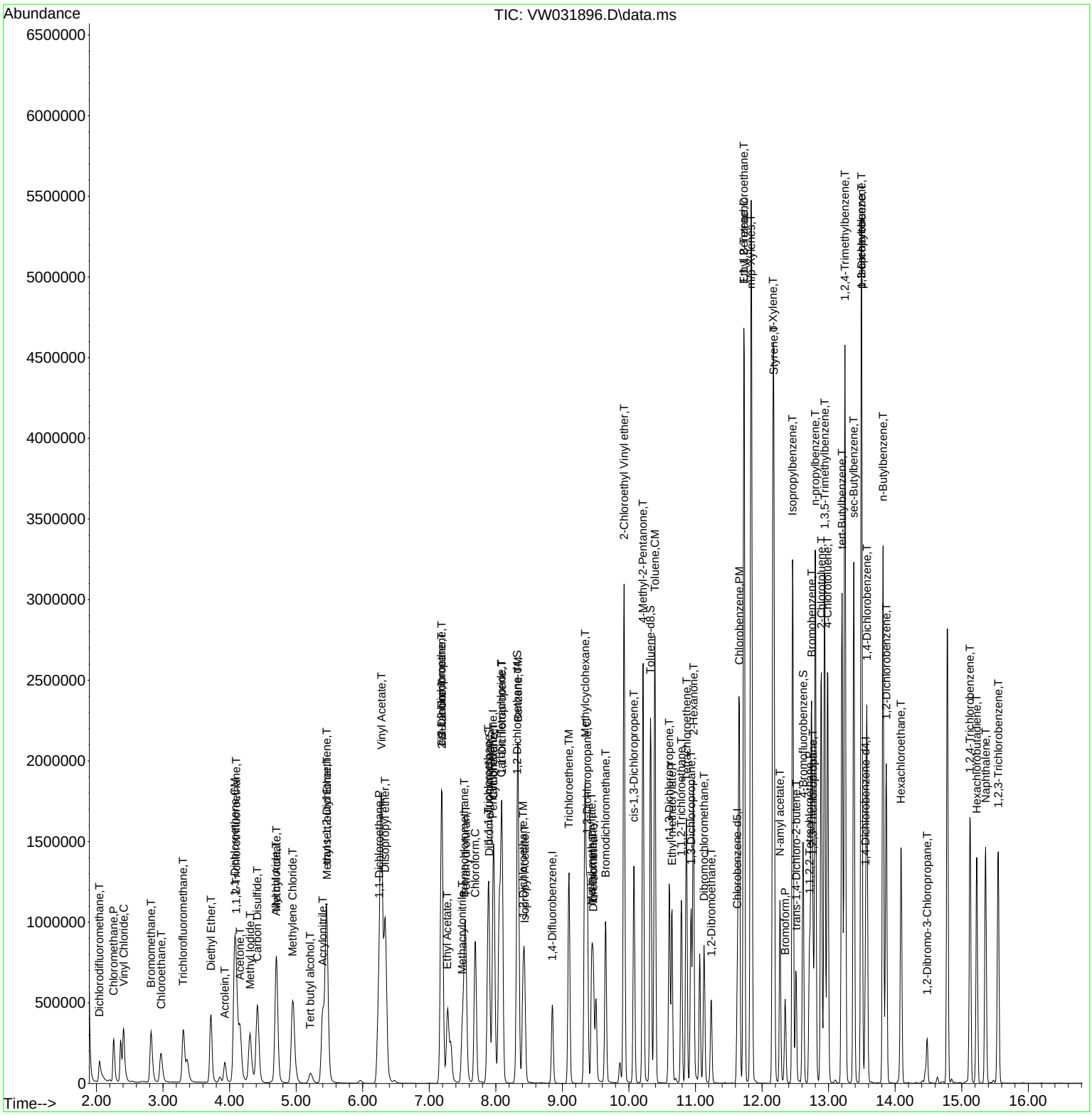
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031896.D
Acq On : 22 Jul 2025 12:00
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 23 08:04:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 07:57:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031898.D
Acq On : 22 Jul 2025 14:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW072225

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:20:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.953	168	226226	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.849	114	417980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	364156	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	171771	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	154942	45.275	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 90.560%			
35) Dibromofluoromethane	7.898	113	131485	46.294	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 92.580%			
50) Toluene-d8	10.325	98	495878	46.131	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 92.260%			
62) 4-Bromofluorobenzene	12.617	95	188746	45.728	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 91.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	79412	47.231	ug/l	97
3) Chloromethane	2.253	50	104231	48.299	ug/l	96
4) Vinyl Chloride	2.405	62	136473	48.682	ug/l	99
5) Bromomethane	2.826	94	98945	47.931	ug/l	99
6) Chloroethane	2.972	64	89035	48.122	ug/l	98
7) Trichlorofluoromethane	3.308	101	134264	47.287	ug/l	100
8) Diethyl Ether	3.722	74	88950	46.898	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.106	101	131248	48.057	ug/l	99
10) Methyl Iodide	4.314	142	194455	47.621	ug/l	100
11) Tert butyl alcohol	5.216	59	55051	273.664	ug/l	100
12) 1,1-Dichloroethene	4.076	96	146332	48.510	ug/l	98
13) Acrolein	3.929	56	66037	243.737	ug/l	99
14) Allyl chloride	4.704	41	227478	48.442	ug/l	99
15) Acrylonitrile	5.405	53	213745	252.071	ug/l	99
16) Acetone	4.161	43	212311	261.441	ug/l	99
17) Carbon Disulfide	4.417	76	383835	49.063	ug/l	97
18) Methyl Acetate	4.710	43	116092	51.889	ug/l	98
19) Methyl tert-butyl Ether	5.466	73	262205	50.308	ug/l	97
20) Methylene Chloride	4.948	84	170521	49.004	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	154329	48.220	ug/l	98
22) Diisopropyl ether	6.338	45	458677	48.814	ug/l	96
23) Vinyl Acetate	6.277	43	1580961	257.536	ug/l	98
24) 1,1-Dichloroethane	6.246	63	285778	48.848	ug/l	99
25) 2-Butanone	7.191	43	295784	266.207	ug/l	98
26) 2,2-Dichloropropane	7.185	77	159426	48.135	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	183416	48.747	ug/l	97
28) Bromochloromethane	7.526	49	120307	49.115	ug/l	98
29) Tetrahydrofuran	7.551	42	189833	260.591	ug/l	99
30) Chloroform	7.691	83	305201	49.755	ug/l	99
31) Cyclohexane	7.971	56	246141	46.897	ug/l	97
32) 1,1,1-Trichloroethane	7.886	97	227258	48.687	ug/l	99
36) 1,1-Dichloropropene	8.093	75	216329	49.596	ug/l	98
37) Ethyl Acetate	7.270	43	126677	50.911	ug/l	99
38) Carbon Tetrachloride	8.087	117	205709	49.141	ug/l	96
39) Methylcyclohexane	9.343	83	279446	50.909	ug/l	96
40) Benzene	8.331	78	638121	49.422	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031898.D
Acq On : 22 Jul 2025 14:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW072225

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:20:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	73360	49.252	ug/l		95
42) 1,2-Dichloroethane	8.410	62	203485	49.242	ug/l		100
43) Isopropyl Acetate	8.435	43	233100	51.748	ug/l		100
44) Trichloroethene	9.099	130	150370	48.996	ug/l		97
45) 1,2-Dichloropropane	9.374	63	151921	48.855	ug/l		97
46) Dibromomethane	9.465	93	96302	49.959	ug/l		97
47) Bromodichloromethane	9.648	83	233260	50.465	ug/l		99
48) Methyl methacrylate	9.441	41	111759	52.150	ug/l		99
49) 1,4-Dioxane	9.465	88	20081	1044.021	ug/l	#	81
51) 4-Methyl-2-Pentanone	10.209	43	646271	262.159	ug/l		100
52) Toluene	10.392	92	411023	49.520	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	227133	51.226	ug/l		100
54) cis-1,3-Dichloropropene	10.075	75	256794	50.715	ug/l		99
55) 1,1,2-Trichloroethane	10.788	97	128088	50.025	ug/l		91
56) Ethyl methacrylate	10.648	69	190747	52.748	ug/l		99
57) 1,3-Dichloropropane	10.934	76	226448	50.201	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	495366	266.689	ug/l		98
59) 2-Hexanone	10.965	43	463102	270.260	ug/l		100
60) Dibromochloromethane	11.129	129	148718	49.816	ug/l		99
61) 1,2-Dibromoethane	11.233	107	125012	49.410	ug/l		97
64) Tetrachloroethene	10.867	164	116825	48.658	ug/l		92
65) Chlorobenzene	11.660	112	424231	47.600	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.727	131	143748	52.026	ug/l		97
67) Ethyl Benzene	11.733	91	772618	49.339	ug/l		98
68) m/p-Xylenes	11.837	106	582795	98.862	ug/l		98
69) o-Xylene	12.166	106	286822	51.412	ug/l		98
70) Styrene	12.178	104	477401	50.260	ug/l		98
71) Bromoform	12.343	173	78568	51.994	ug/l	#	97
73) Isopropylbenzene	12.458	105	737512	49.484	ug/l		100
74) N-amyl acetate	12.269	43	211747	52.553	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.708	83	157475	49.778	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	112806m	47.566	ug/l		
77) Bromobenzene	12.745	156	160635	49.814	ug/l		94
78) n-propylbenzene	12.800	91	901700	49.260	ug/l		99
79) 2-Chlorotoluene	12.891	91	535719	49.018	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	626726	50.139	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	53527	52.109	ug/l		98
82) 4-Chlorotoluene	12.983	91	560575	48.892	ug/l		99
83) tert-Butylbenzene	13.202	119	530770	49.850	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	621802	49.148	ug/l		99
85) sec-Butylbenzene	13.379	105	802831	50.210	ug/l		100
86) p-Isopropyltoluene	13.489	119	664260	50.261	ug/l		98
87) 1,3-Dichlorobenzene	13.495	146	316200	47.106	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	320113	48.681	ug/l		98
89) n-Butylbenzene	13.818	91	638513	49.250	ug/l		98
90) Hexachloroethane	14.086	117	113450	49.643	ug/l		95
91) 1,2-Dichlorobenzene	13.867	146	286039	48.082	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	28523	49.905	ug/l		97
93) 1,2,4-Trichlorobenzene	15.129	180	177038	49.346	ug/l		93
94) Hexachlorobutadiene	15.232	225	78966	46.450	ug/l		92
95) Naphthalene	15.360	128	462913	52.482	ug/l		98
96) 1,2,3-Trichlorobenzene	15.543	180	164194	50.512	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031898.D
Acq On : 22 Jul 2025 14:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW072225

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 23 08:20:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

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

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031898.D
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ClientSampleId :
ICVVW072225

Manual Integrations APPROVED

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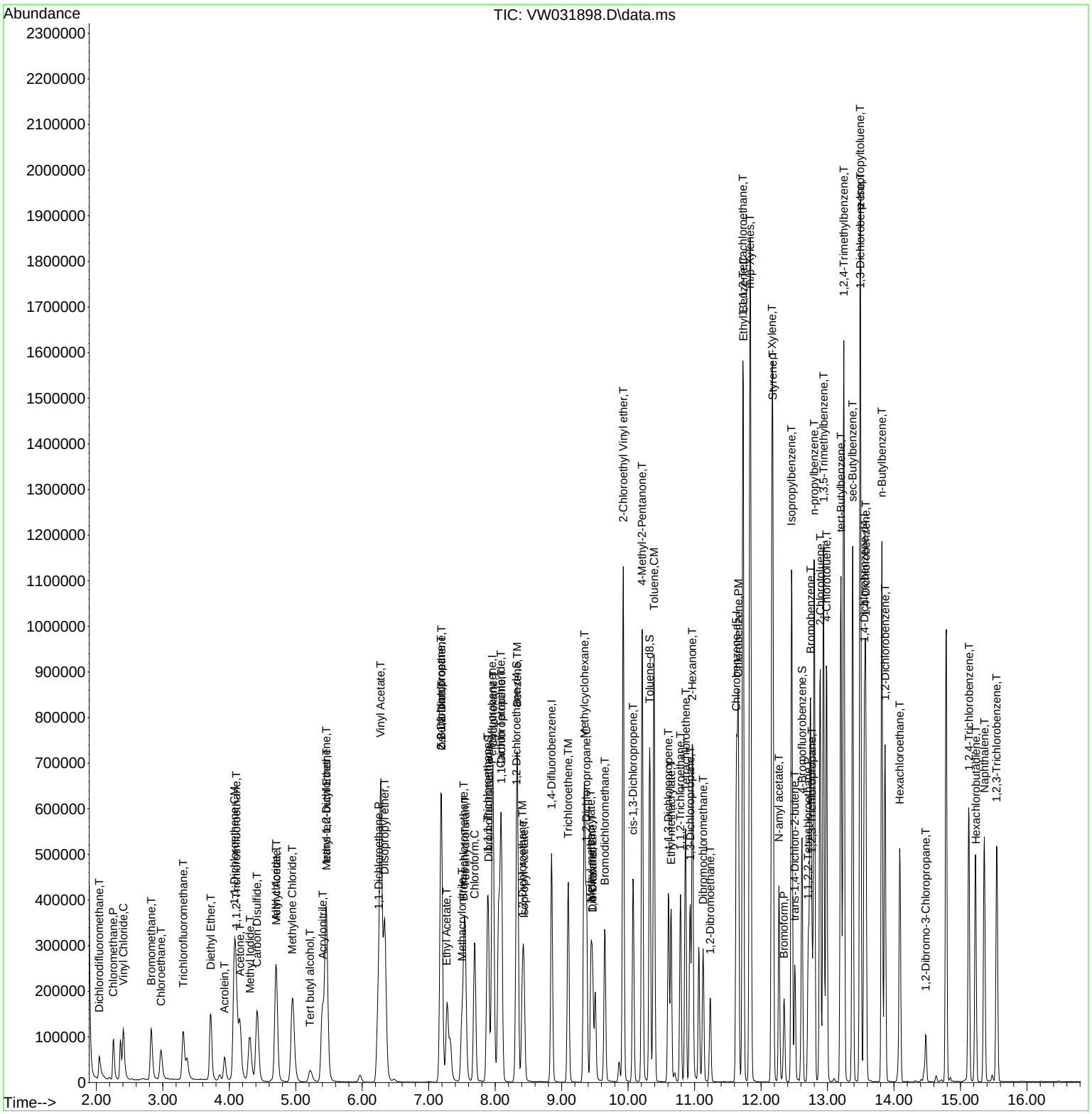

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031898.D
Acq On : 22 Jul 2025 14:47
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MSVOA_W
ClientSampleId :
ICVVW072225

Quant Time: Jul 23 08:20:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
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	100	-0.01
2	T	Dichlorodifluoromethane	0.372	0.351	5.6	98	0.00
3	P	Chloromethane	0.477	0.461	3.4	107	0.00
4	C	Vinyl Chloride	0.620	0.603	2.7#	99	0.00
5	T	Bromomethane	0.456	0.437	4.2	101	0.00
6	T	Chloroethane	0.409	0.394	3.7	101	0.00
7	T	Trichlorofluoromethane	0.628	0.593	5.6	88	0.00
8	T	Diethyl Ether	0.419	0.393	6.2	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.604	0.580	4.0	99	0.00
10	T	Methyl Iodide	0.902	0.860	4.7	100	0.00
11	T	Tert butyl alcohol	0.044	0.049	-11.4	112	0.00
12	CM	1,1-Dichloroethene	0.667	0.647	3.0#	101	0.00
13	T	Acrolein	0.065	0.058	10.8	111	-0.01
14	T	Allyl chloride	1.038	1.006	3.1	100	0.00
15	T	Acrylonitrile	0.187	0.189	-1.1	104	0.00
16	T	Acetone	0.179	0.188	-5.0	114	0.00
17	T	Carbon Disulfide	1.729	1.697	1.9	101	0.00
18	T	Methyl Acetate	0.494	0.513	-3.8	109	0.00
19	T	Methyl tert-butyl Ether	1.152	1.159	-0.6	103	0.00
20	T	Methylene Chloride	0.944	0.754	20.1	100	0.00
21	T	trans-1,2-Dichloroethene	0.707	0.682	3.5	99	0.00
22	T	Diisopropyl ether	2.077	2.028	2.4	99	0.00
23	T	Vinyl Acetate	1.357	1.398	-3.0	104	-0.01
24	P	1,1-Dichloroethane	1.293	1.263	2.3	100	0.00
25	T	2-Butanone	0.246	0.261	-6.1	111	0.00
26	T	2,2-Dichloropropane	0.732	0.705	3.7	96	0.00
27	T	cis-1,2-Dichloroethene	0.832	0.811	2.5	99	0.00
28	T	Bromochloromethane	0.541	0.532	1.7	102	0.00
29	T	Tetrahydrofuran	0.161	0.168	-4.3	106	0.00
30	C	Chloroform	1.356	1.349	0.5#	103	0.00
31	T	Cyclohexane	1.160	1.088	6.2	99	0.00
32	T	1,1,1-Trichloroethane	1.032	1.005	2.6	100	0.00
33	S	1,2-Dichloroethane-d4	0.756	0.685	9.4	97	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35	S	Dibromofluoromethane	0.340	0.315	7.4	96	0.00
36	T	1,1-Dichloropropene	0.522	0.518	0.8	101	0.00
37	T	Ethyl Acetate	0.298	0.303	-1.7	102	0.00
38	T	Carbon Tetrachloride	0.501	0.492	1.8	100	0.00
39	T	Methylcyclohexane	0.657	0.669	-1.8	102	0.00
40	TM	Benzene	1.545	1.527	1.2	100	0.00
41	T	Methacrylonitrile	0.178	0.176	1.1	98	0.00
42	TM	1,2-Dichloroethane	0.494	0.487	1.4	101	0.00
43	T	Isopropyl Acetate	0.539	0.558	-3.5	105	0.00
44	TM	Trichloroethene	0.367	0.360	1.9	99	0.00
45	C	1,2-Dichloropropane	0.372	0.363	2.4#	101	0.00
46	T	Dibromomethane	0.231	0.230	0.4	102	0.00
47	T	Bromodichloromethane	0.553	0.558	-0.9	104	0.00
48	T	Methyl methacrylate	0.256	0.267	-4.3	104	0.00

ICAL Form

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Data File : VW031898.D
Acq On : 22 Jul 2025 14:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW072225

Quant Time: Jul 23 08:20:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	92	0.00
50	S	Toluene-d8	1.286	1.186	7.8	97	0.00
51	T	4-Methyl-2-Pentanone	0.295	0.309	-4.7	105	0.00
52	CM	Toluene	0.993	0.983	1.0#	100	0.00
53	T	t-1,3-Dichloropropene	0.530	0.543	-2.5	104	0.00
54	T	cis-1,3-Dichloropropene	0.606	0.614	-1.3	102	0.00
55	T	1,1,2-Trichloroethane	0.306	0.306	0.0	102	0.00
56	T	Ethyl methacrylate	0.433	0.456	-5.3	103	0.00
57	T	1,3-Dichloropropane	0.540	0.542	-0.4	101	0.00
58	T	2-Chloroethyl Vinyl ether	0.222	0.237	-6.8	106	0.00
59	T	2-Hexanone	0.205	0.222	-8.3	108	0.00
60	T	Dibromochloromethane	0.357	0.356	0.3	101	0.00
61	T	1,2-Dibromoethane	0.303	0.299	1.3	101	0.00
62	S	4-Bromofluorobenzene	0.494	0.452	8.5	98	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
64	T	Tetrachloroethene	0.330	0.321	2.7	101	0.00
65	PM	Chlorobenzene	1.224	1.165	4.8	95	0.00
66	T	1,1,1,2-Tetrachloroethane	0.379	0.395	-4.2	106	0.00
67	C	Ethyl Benzene	2.150	2.122	1.3#	97	0.00
68	T	m/p-Xylenes	0.809	0.800	1.1	99	0.00
69	T	o-Xylene	0.766	0.788	-2.9	101	0.00
70	T	Styrene	1.304	1.311	-0.5	98	0.00
71	P	Bromoform	0.207	0.216	-4.3	100	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73	T	Isopropylbenzene	4.338	4.294	1.0	99	0.00
74	T	N-amyl acetate	1.173	1.233	-5.1	105	0.00
75	P	1,1,2,2-Tetrachloroethane	0.921	0.917	0.4	102	0.00
76	T	1,2,3-Trichloropropane	0.690	0.657	4.8	97	0.00
77	T	Bromobenzene	0.939	0.935	0.4	105	0.00
78	T	n-propylbenzene	5.328	5.249	1.5	100	0.00
79	T	2-Chlorotoluene	3.181	3.119	1.9	101	0.00
80	T	1,3,5-Trimethylbenzene	3.638	3.649	-0.3	103	0.00
81	T	trans-1,4-Dichloro-2-butene	0.299	0.312	-4.3	106	0.00
82	T	4-Chlorotoluene	3.337	3.264	2.2	101	0.00
83	T	tert-Butylbenzene	3.099	3.090	0.3	102	0.00
84	T	1,2,4-Trimethylbenzene	3.683	3.620	1.7	100	0.00
85	T	sec-Butylbenzene	4.654	4.674	-0.4	103	0.00
86	T	p-Isopropyltoluene	3.847	3.867	-0.5	102	0.00
87	T	1,3-Dichlorobenzene	1.954	1.841	5.8	98	0.00
88	T	1,4-Dichlorobenzene	1.914	1.864	2.6	104	0.00
89	T	n-Butylbenzene	3.774	3.717	1.5	99	0.00
90	T	Hexachloroethane	0.665	0.660	0.8	104	0.00
91	T	1,2-Dichlorobenzene	1.732	1.665	3.9	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.166	0.166	0.0	105	0.00
93	T	1,2,4-Trichlorobenzene	1.044	1.031	1.2	107	0.00
94	T	Hexachlorobutadiene	0.495	0.460	7.1	96	0.00
95	T	Naphthalene	2.567	2.695	-5.0	108	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031898.D
Acq On : 22 Jul 2025 14:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW072225

Quant Time: Jul 23 08:20:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
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	0.946	0.956	-1.1	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031898.D
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Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW072225

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Quant Title : SW846 8260
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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	100	-0.01
2	T	Dichlorodifluoromethane	50.000	47.231	5.5	98	0.00
3	P	Chloromethane	50.000	48.299	3.4	107	0.00
4	C	Vinyl Chloride	50.000	48.682	2.6#	99	0.00
5	T	Bromomethane	50.000	47.931	4.1	101	0.00
6	T	Chloroethane	50.000	48.122	3.8	101	0.00
7	T	Trichlorofluoromethane	50.000	47.287	5.4	88	0.00
8	T	Diethyl Ether	50.000	46.898	6.2	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.057	3.9	99	0.00
10	T	Methyl Iodide	50.000	47.621	4.8	100	0.00
11	T	Tert butyl alcohol	250.000	273.664	-9.5	112	0.00
12	CM	1,1-Dichloroethene	50.000	48.510	3.0#	101	0.00
13	T	Acrolein	250.000	243.737	2.5	111	-0.01
14	T	Allyl chloride	50.000	48.442	3.1	100	0.00
15	T	Acrylonitrile	250.000	252.071	-0.8	104	0.00
16	T	Acetone	250.000	261.441	-4.6	114	0.00
17	T	Carbon Disulfide	50.000	49.063	1.9	101	0.00
18	T	Methyl Acetate	50.000	51.889	-3.8	109	0.00
19	T	Methyl tert-butyl Ether	50.000	50.308	-0.6	103	0.00
20	T	Methylene Chloride	50.000	49.004	2.0	100	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.220	3.6	99	0.00
22	T	Diisopropyl ether	50.000	48.814	2.4	99	0.00
23	T	Vinyl Acetate	250.000	257.536	-3.0	104	-0.01
24	P	1,1-Dichloroethane	50.000	48.848	2.3	100	0.00
25	T	2-Butanone	250.000	266.207	-6.5	111	0.00
26	T	2,2-Dichloropropane	50.000	48.135	3.7	96	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.747	2.5	99	0.00
28	T	Bromochloromethane	50.000	49.115	1.8	102	0.00
29	T	Tetrahydrofuran	250.000	260.591	-4.2	106	0.00
30	C	Chloroform	50.000	49.755	0.5#	103	0.00
31	T	Cyclohexane	50.000	46.897	6.2	99	0.00
32	T	1,1,1-Trichloroethane	50.000	48.687	2.6	100	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.275	9.5	97	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35	S	Dibromofluoromethane	50.000	46.294	7.4	96	0.00
36	T	1,1-Dichloropropene	50.000	49.596	0.8	101	0.00
37	T	Ethyl Acetate	50.000	50.911	-1.8	102	0.00
38	T	Carbon Tetrachloride	50.000	49.141	1.7	100	0.00
39	T	Methylcyclohexane	50.000	50.909	-1.8	102	0.00
40	TM	Benzene	50.000	49.422	1.2	100	0.00
41	T	Methacrylonitrile	50.000	49.252	1.5	98	0.00
42	TM	1,2-Dichloroethane	50.000	49.242	1.5	101	0.00
43	T	Isopropyl Acetate	50.000	51.748	-3.5	105	0.00
44	TM	Trichloroethene	50.000	48.996	2.0	99	0.00
45	C	1,2-Dichloropropane	50.000	48.855	2.3#	101	0.00
46	T	Dibromomethane	50.000	49.959	0.1	102	0.00
47	T	Bromodichloromethane	50.000	50.465	-0.9	104	0.00
48	T	Methyl methacrylate	50.000	52.150	-4.3	104	0.00

ICAL Form

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Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW072225

Quant Time: Jul 23 08:20:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
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	1044.021	-4.4	92	0.00
50	S	Toluene-d8	50.000	46.131	7.7	97	0.00
51	T	4-Methyl-2-Pentanone	250.000	262.159	-4.9	105	0.00
52	CM	Toluene	50.000	49.520	1.0#	100	0.00
53	T	t-1,3-Dichloropropene	50.000	51.226	-2.5	104	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.715	-1.4	102	0.00
55	T	1,1,2-Trichloroethane	50.000	50.025	-0.0	102	0.00
56	T	Ethyl methacrylate	50.000	52.748	-5.5	103	0.00
57	T	1,3-Dichloropropane	50.000	50.201	-0.4	101	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	266.689	-6.7	106	0.00
59	T	2-Hexanone	250.000	270.260	-8.1	108	0.00
60	T	Dibromochloromethane	50.000	49.816	0.4	101	0.00
61	T	1,2-Dibromoethane	50.000	49.410	1.2	101	0.00
62	S	4-Bromofluorobenzene	50.000	45.728	8.5	98	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
64	T	Tetrachloroethene	50.000	48.658	2.7	101	0.00
65	PM	Chlorobenzene	50.000	47.600	4.8	95	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.026	-4.1	106	0.00
67	C	Ethyl Benzene	50.000	49.339	1.3#	97	0.00
68	T	m/p-Xylenes	100.000	98.862	1.1	99	0.00
69	T	o-Xylene	50.000	51.412	-2.8	101	0.00
70	T	Styrene	50.000	50.260	-0.5	98	0.00
71	P	Bromoform	50.000	51.994	-4.0	100	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73	T	Isopropylbenzene	50.000	49.484	1.0	99	0.00
74	T	N-amyl acetate	50.000	52.553	-5.1	105	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.778	0.4	102	0.00
76	T	1,2,3-Trichloropropane	50.000	47.566	4.9	97	0.00
77	T	Bromobenzene	50.000	49.814	0.4	105	0.00
78	T	n-propylbenzene	50.000	49.260	1.5	100	0.00
79	T	2-Chlorotoluene	50.000	49.018	2.0	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.139	-0.3	103	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.109	-4.2	106	0.00
82	T	4-Chlorotoluene	50.000	48.892	2.2	101	0.00
83	T	tert-Butylbenzene	50.000	49.850	0.3	102	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.148	1.7	100	0.00
85	T	sec-Butylbenzene	50.000	50.210	-0.4	103	0.00
86	T	p-Isopropyltoluene	50.000	50.261	-0.5	102	0.00
87	T	1,3-Dichlorobenzene	50.000	47.106	5.8	98	0.00
88	T	1,4-Dichlorobenzene	50.000	48.681	2.6	104	0.00
89	T	n-Butylbenzene	50.000	49.250	1.5	99	0.00
90	T	Hexachloroethane	50.000	49.643	0.7	104	0.00
91	T	1,2-Dichlorobenzene	50.000	48.082	3.8	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.905	0.2	105	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.346	1.3	107	0.00
94	T	Hexachlorobutadiene	50.000	46.450	7.1	96	0.00
95	T	Naphthalene	50.000	52.482	-5.0	108	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031898.D
Acq On : 22 Jul 2025 14:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW072225

Quant Time: Jul 23 08:20:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.512	-1.0	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VW032036.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	POWE02
Lab Code:	ACE	SDG No.:	Q2795
Instrument ID:	MSVOA_W	Calibration Date/Time:	08/07/2025 10:08
Lab File ID:	VW032036.D	Init. Calib. Date(s):	07/22/2025 07/22/2025
Heated Purge: (Y/N)	Y	Init. Calib. Time(s):	09:05 12:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
cis-1,2-Dichloroethene	0.832	0.892		7.21	20
1,1,1-Trichloroethane	1.032	1.074		4.07	20
Benzene	1.545	1.630		5.5	20
Trichloroethene	0.367	0.394		7.36	20
Toluene	0.993	1.044		5.14	20
Ethyl Benzene	2.150	2.213		2.93	20
m/p-Xylenes	0.809	0.850		5.07	20
o-Xylene	0.766	0.801		4.57	20
Isopropylbenzene	4.338	4.467		2.97	20
1,2-Dichloroethane-d4	0.756	0.740		-2.12	20
Dibromofluoromethane	0.340	0.347		2.06	20
Toluene-d8	1.286	1.324		2.95	20
4-Bromofluorobenzene	0.494	0.490		-0.81	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032036.D
Acq On : 07 Aug 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 04:05:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/08/2025
Supervised By :Semsettin Yesilyurt 08/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	218306	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.843	114	410147	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.629	117	372672	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	173846	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	161477	48.897	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 97.800%			
35) Dibromofluoromethane	7.898	113	142295	51.057	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 102.120%			
50) Toluene-d8	10.325	98	543171	51.496	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 103.000%			
62) 4-Bromofluorobenzene	12.617	95	200915	49.606	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 99.220%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	81192	50.041	ug/l	99
3) Chloromethane	2.253	50	109368	52.518	ug/l	98
4) Vinyl Chloride	2.405	62	138493	51.195	ug/l	100
5) Bromomethane	2.826	94	101869	51.138	ug/l	99
6) Chloroethane	2.966	64	91678	51.348	ug/l	100
7) Trichlorofluoromethane	3.302	101	113201	41.315	ug/l	98
8) Diethyl Ether	3.716	74	87560	47.840	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.100	101	140926	53.473	ug/l	99
10) Methyl Iodide	4.308	142	197331	50.079	ug/l	98
11) Tert butyl alcohol	5.216	59	51902	267.371	ug/l	100
12) 1,1-Dichloroethene	4.076	96	153320	52.671	ug/l	95
13) Acrolein	3.923	56	11429	34.079	ug/l	99
14) Allyl chloride	4.698	41	224842	49.618	ug/l	99
15) Acrylonitrile	5.399	53	203770	249.026	ug/l	98
16) Acetone	4.155	43	192000	245.008	ug/l	95
17) Carbon Disulfide	4.423	76	386347	51.176	ug/l	98
18) Methyl Acetate	4.704	43	114211	52.900	ug/l	100
19) Methyl tert-butyl Ether	5.454	73	265712	52.830	ug/l	97
20) Methylene Chloride	4.948	84	167010	49.813	ug/l	98
21) trans-1,2-Dichloroethene	5.448	96	160982	52.123	ug/l	98
22) Diisopropyl ether	6.338	45	464935	51.275	ug/l	99
23) Vinyl Acetate	6.277	43	1494378	252.263	ug/l	99
24) 1,1-Dichloroethane	6.240	63	297497	52.696	ug/l	99
25) 2-Butanone	7.191	43	270649	252.423	ug/l	96
26) 2,2-Dichloropropane	7.179	77	161890	50.652	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	194791	53.648	ug/l	98
28) Bromochloromethane	7.526	49	106395	45.011	ug/l	96
29) Tetrahydrofuran	7.551	42	176395	250.929	ug/l	100
30) Chloroform	7.685	83	312727	52.832	ug/l	99
31) Cyclohexane	7.965	56	252226	49.800	ug/l	98
32) 1,1,1-Trichloroethane	7.880	97	234461	52.053	ug/l	98
36) 1,1-Dichloropropene	8.093	75	222199	51.915	ug/l	100
37) Ethyl Acetate	7.270	43	111982	45.864	ug/l	99
38) Carbon Tetrachloride	8.081	117	215264	52.406	ug/l	94
39) Methylcyclohexane	9.337	83	280721	52.118	ug/l	98
40) Benzene	8.331	78	668643	52.775	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032036.D
Acq On : 07 Aug 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 04:05:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/08/2025
Supervised By :Semsettin Yesilyurt 08/08/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	71352	48.818	ug/l		95
42) 1,2-Dichloroethane	8.410	62	202950	50.050	ug/l		98
43) Isopropyl Acetate	8.435	43	215912	48.848	ug/l		99
44) Trichloroethene	9.099	130	161652	53.677	ug/l		95
45) 1,2-Dichloropropane	9.374	63	159221	52.181	ug/l		97
46) Dibromomethane	9.465	93	98710	52.186	ug/l		99
47) Bromodichloromethane	9.648	83	238519	52.588	ug/l		98
48) Methyl methacrylate	9.441	41	103965	49.439	ug/l		97
49) 1,4-Dioxane	9.459	88	23584	1249.561	ug/l		100
51) 4-Methyl-2-Pentanone	10.209	43	595446	246.155	ug/l		99
52) Toluene	10.386	92	428304	52.587	ug/l		96
53) t-1,3-Dichloropropene	10.605	75	227603	52.313	ug/l		98
54) cis-1,3-Dichloropropene	10.075	75	260304	52.390	ug/l		96
55) 1,1,2-Trichloroethane	10.788	97	128945	51.321	ug/l		91
56) Ethyl methacrylate	10.648	69	185020	52.141	ug/l		98
57) 1,3-Dichloropropane	10.928	76	224230	50.658	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.922	63	410494	225.217	ug/l		100
59) 2-Hexanone	10.965	43	416151	247.498	ug/l		99
60) Dibromochloromethane	11.129	129	152059	51.908	ug/l		100
61) 1,2-Dibromoethane	11.233	107	127122	51.204	ug/l		100
64) Tetrachloroethene	10.861	164	123708	50.348	ug/l		92
65) Chlorobenzene	11.654	112	457345	50.142	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.727	131	145343	51.402	ug/l		99
67) Ethyl Benzene	11.727	91	824554	51.453	ug/l		98
68) m/p-Xylenes	11.837	106	633474	105.003	ug/l		100
69) o-Xylene	12.160	106	298603	52.301	ug/l		98
70) Styrene	12.178	104	513413	52.816	ug/l		98
71) Bromoform	12.343	173	77856	50.346	ug/l	#	98
73) Isopropylbenzene	12.459	105	776651	51.488	ug/l		99
74) N-amyl acetate	12.270	43	198592	48.700	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.708	83	152795	47.722	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	110711m	46.126	ug/l		
77) Bromobenzene	12.739	156	165155	50.604	ug/l		97
78) n-propylbenzene	12.800	91	934432	50.439	ug/l		99
79) 2-Chlorotoluene	12.885	91	568974	51.439	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	651264	51.480	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.507	75	52673	50.665	ug/l		95
82) 4-Chlorotoluene	12.983	91	584624	50.381	ug/l		97
83) tert-Butylbenzene	13.202	119	568092	52.719	ug/l		97
84) 1,2,4-Trimethylbenzene	13.245	105	642127	50.148	ug/l		98
85) sec-Butylbenzene	13.379	105	817447	50.514	ug/l		98
86) p-Isopropyltoluene	13.489	119	670905	50.158	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	340592	50.134	ug/l		99
88) 1,4-Dichlorobenzene	13.574	146	320678	48.185	ug/l		97
89) n-Butylbenzene	13.818	91	676179	51.533	ug/l		99
90) Hexachloroethane	14.092	117	119549	51.687	ug/l		96
91) 1,2-Dichlorobenzene	13.861	146	298677	49.607	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.476	75	26443	45.714	ug/l		97
93) 1,2,4-Trichlorobenzene	15.129	180	181354	49.946	ug/l		94
94) Hexachlorobutadiene	15.220	225	83291	48.409	ug/l		94
95) Naphthalene	15.354	128	437045	48.958	ug/l		99
96) 1,2,3-Trichlorobenzene	15.543	180	155356	47.223	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032036.D
Acq On : 07 Aug 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/08/2025
Supervised By :Semsettin Yesilyurt 08/08/2025

Quant Time: Aug 08 04:05:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

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

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

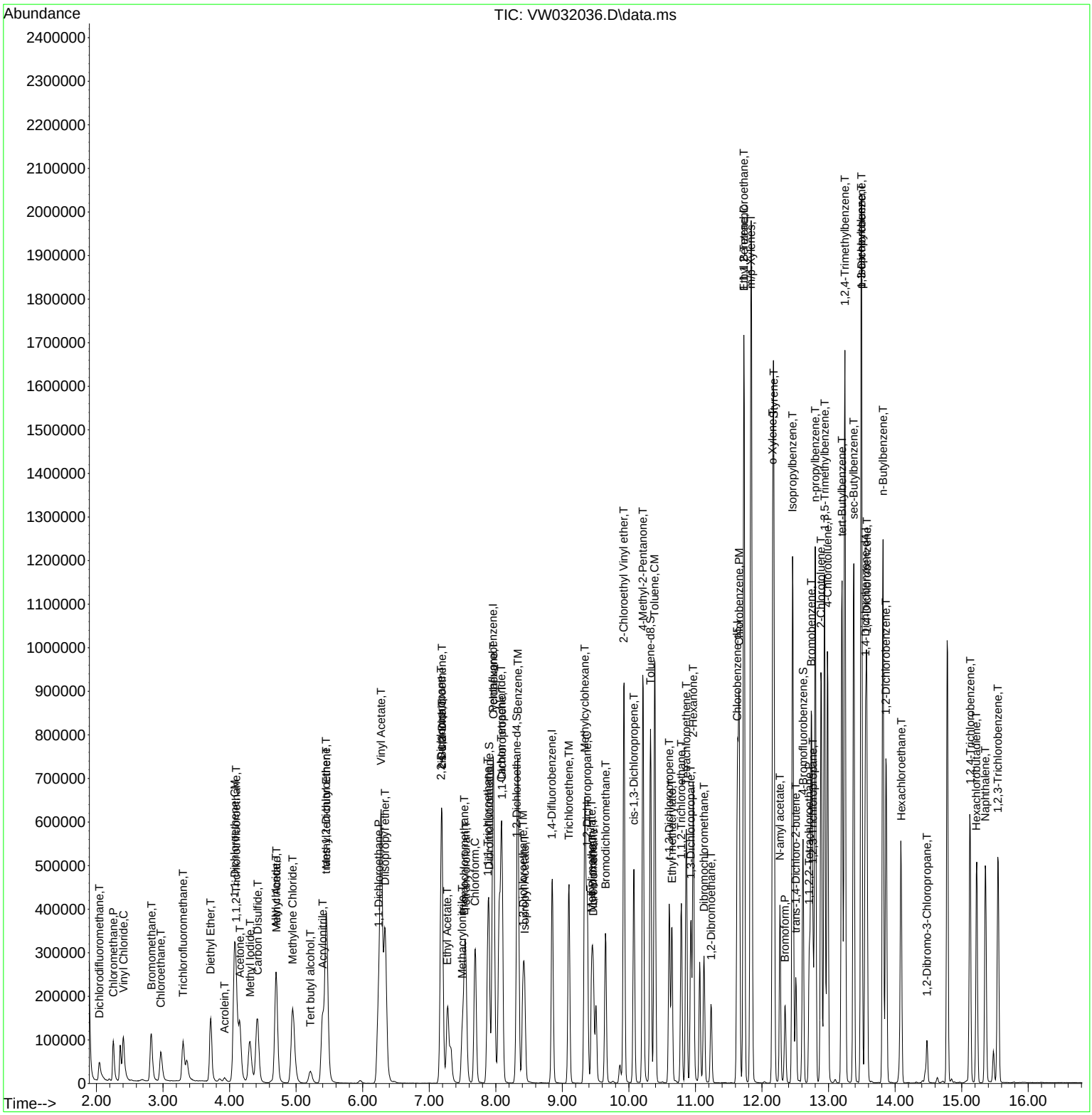
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032036.D
Acq On : 07 Aug 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 04:05:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/08/2025
Supervised By :Semsettin Yesilyurt 08/08/2025



Sample Results: **VW032036.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032036.D
Acq On : 07 Aug 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 08 04:05:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
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	0.372	0.372	0.0	101	0.00
3	P	Chloromethane	0.477	0.501	-5.0	112	0.00
4	C	Vinyl Chloride	0.620	0.634	-2.3#	100	0.00
5	T	Bromomethane	0.456	0.467	-2.4	104	0.00
6	T	Chloroethane	0.409	0.420	-2.7	104	-0.01
7	T	Trichlorofluoromethane	0.628	0.519	17.4	74	-0.01
8	T	Diethyl Ether	0.419	0.401	4.3	100	-0.01
9	T	1,1,2-Trichlorotrifluoroeth	0.604	0.646	-7.0	106	-0.01
10	T	Methyl Iodide	0.902	0.904	-0.2	101	0.00
11	T	Tert butyl alcohol	0.044	0.048	-9.1	106	0.00
12	CM	1,1-Dichloroethene	0.667	0.702	-5.2#	106	0.00
13	T	Acrolein	0.065	0.010	84.6#	19#	-0.02
14	T	Allyl chloride	1.038	1.030	0.8	99	-0.01
15	T	Acrylonitrile	0.187	0.187	0.0	99	0.00
16	T	Acetone	0.179	0.176	1.7	103	-0.01
17	T	Carbon Disulfide	1.729	1.770	-2.4	101	0.00
18	T	Methyl Acetate	0.494	0.523	-5.9	107	-0.01
19	T	Methyl tert-butyl Ether	1.152	1.217	-5.6	104	-0.01
20	T	Methylene Chloride	0.944	0.765	19.0	98	0.00
21	T	trans-1,2-Dichloroethene	0.707	0.737	-4.2	104	-0.02
22	T	Diisopropyl ether	2.077	2.130	-2.6	100	0.00
23	T	Vinyl Acetate	1.357	1.369	-0.9	98	-0.01
24	P	1,1-Dichloroethane	1.293	1.363	-5.4	105	0.00
25	T	2-Butanone	0.246	0.248	-0.8	102	0.00
26	T	2,2-Dichloropropane	0.732	0.742	-1.4	97	-0.01
27	T	cis-1,2-Dichloroethene	0.832	0.892	-7.2	105	0.00
28	T	Bromochloromethane	0.541	0.487	10.0	90	0.00
29	T	Tetrahydrofuran	0.161	0.162	-0.6	98	0.00
30	C	Chloroform	1.356	1.433	-5.7#	106	0.00
31	T	Cyclohexane	1.160	1.155	0.4	102	0.00
32	T	1,1,1-Trichloroethane	1.032	1.074	-4.1	103	0.00
33	S	1,2-Dichloroethane-d4	0.756	0.740	2.1	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	-0.01
35	S	Dibromofluoromethane	0.340	0.347	-2.1	104	0.00
36	T	1,1-Dichloropropene	0.522	0.542	-3.8	104	0.00
37	T	Ethyl Acetate	0.298	0.273	8.4	91	0.00
38	T	Carbon Tetrachloride	0.501	0.525	-4.8	104	0.00
39	T	Methylcyclohexane	0.657	0.684	-4.1	102	0.00
40	TM	Benzene	1.545	1.630	-5.5	105	0.00
41	T	Methacrylonitrile	0.178	0.174	2.2	95	0.00
42	TM	1,2-Dichloroethane	0.494	0.495	-0.2	101	0.00
43	T	Isopropyl Acetate	0.539	0.526	2.4	97	0.00
44	TM	Trichloroethene	0.367	0.394	-7.4	107	0.00
45	C	1,2-Dichloropropane	0.372	0.388	-4.3#	106	0.00
46	T	Dibromomethane	0.231	0.241	-4.3	104	0.00
47	T	Bromodichloromethane	0.553	0.582	-5.2	107	0.00
48	T	Methyl methacrylate	0.256	0.253	1.2	97	0.00

Sample Results: **VW032036.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032036.D
Acq On : 07 Aug 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 08 04:05:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.003	-50.0#	108	0.00
50	S	Toluene-d8	1.286	1.324	-3.0	106	0.00
51	T	4-Methyl-2-Pentanone	0.295	0.290	1.7	96	0.00
52	CM	Toluene	0.993	1.044	-5.1#	105	0.00
53	T	t-1,3-Dichloropropene	0.530	0.555	-4.7	104	0.00
54	T	cis-1,3-Dichloropropene	0.606	0.635	-4.8	103	0.00
55	T	1,1,2-Trichloroethane	0.306	0.314	-2.6	103	0.00
56	T	Ethyl methacrylate	0.433	0.451	-4.2	100	0.00
57	T	1,3-Dichloropropane	0.540	0.547	-1.3	100	0.00
58	T	2-Chloroethyl Vinyl ether	0.222	0.200	9.9	88	0.00
59	T	2-Hexanone	0.205	0.203	1.0	97	0.00
60	T	Dibromochloromethane	0.357	0.371	-3.9	103	0.00
61	T	1,2-Dibromoethane	0.303	0.310	-2.3	102	0.00
62	S	4-Bromofluorobenzene	0.494	0.490	0.8	104	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64	T	Tetrachloroethene	0.330	0.332	-0.6	106	0.00
65	PM	Chlorobenzene	1.224	1.227	-0.2	103	0.00
66	T	1,1,1,2-Tetrachloroethane	0.379	0.390	-2.9	107	0.00
67	C	Ethyl Benzene	2.150	2.213	-2.9#	103	0.00
68	T	m/p-Xylenes	0.809	0.850	-5.1	107	0.00
69	T	o-Xylene	0.766	0.801	-4.6	105	0.00
70	T	Styrene	1.304	1.378	-5.7	105	0.00
71	P	Bromoform	0.207	0.209	-1.0	99	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73	T	Isopropylbenzene	4.338	4.467	-3.0	104	0.00
74	T	N-amyl acetate	1.173	1.142	2.6	99	0.00
75	P	1,1,2,2-Tetrachloroethane	0.921	0.879	4.6	99	0.00
76	T	1,2,3-Trichloropropane	0.690	0.637	7.7	95	0.00
77	T	Bromobenzene	0.939	0.950	-1.2	108	0.00
78	T	n-propylbenzene	5.328	5.375	-0.9	104	0.00
79	T	2-Chlorotoluene	3.181	3.273	-2.9	108	0.00
80	T	1,3,5-Trimethylbenzene	3.638	3.746	-3.0	107	0.00
81	T	trans-1,4-Dichloro-2-butene	0.299	0.303	-1.3	104	0.00
82	T	4-Chlorotoluene	3.337	3.363	-0.8	106	0.00
83	T	tert-Butylbenzene	3.099	3.268	-5.5	109	0.00
84	T	1,2,4-Trimethylbenzene	3.683	3.694	-0.3	103	0.00
85	T	sec-Butylbenzene	4.654	4.702	-1.0	105	0.00
86	T	p-Isopropyltoluene	3.847	3.859	-0.3	103	0.00
87	T	1,3-Dichlorobenzene	1.954	1.959	-0.3	106	0.00
88	T	1,4-Dichlorobenzene	1.914	1.845	3.6	104	0.00
89	T	n-Butylbenzene	3.774	3.890	-3.1	105	0.00
90	T	Hexachloroethane	0.665	0.688	-3.5	110	0.00
91	T	1,2-Dichlorobenzene	1.732	1.718	0.8	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.166	0.152	8.4	98	0.00
93	T	1,2,4-Trichlorobenzene	1.044	1.043	0.1	109	0.00
94	T	Hexachlorobutadiene	0.495	0.479	3.2	101	0.00
95	T	Naphthalene	2.567	2.514	2.1	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032036.D
Acq On : 07 Aug 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 08 04:05:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
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	0.946	0.894	5.5	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VW032036.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032036.D
Acq On : 07 Aug 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 08 04:05:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
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	50.041	-0.1	101	0.00
3	P	Chloromethane	50.000	52.518	-5.0	112	0.00
4	C	Vinyl Chloride	50.000	51.195	-2.4#	100	0.00
5	T	Bromomethane	50.000	51.138	-2.3	104	0.00
6	T	Chloroethane	50.000	51.348	-2.7	104	-0.01
7	T	Trichlorofluoromethane	50.000	41.315	17.4	74	-0.01
8	T	Diethyl Ether	50.000	47.840	4.3	100	-0.01
9	T	1,1,2-Trichlorotrifluoroeth	50.000	53.473	-6.9	106	-0.01
10	T	Methyl Iodide	50.000	50.079	-0.2	101	0.00
11	T	Tert butyl alcohol	250.000	267.371	-6.9	106	0.00
12	CM	1,1-Dichloroethene	50.000	52.671	-5.3#	106	0.00
13	T	Acrolein	250.000	34.079	86.4#	19	-0.02
14	T	Allyl chloride	50.000	49.618	0.8	99	-0.01
15	T	Acrylonitrile	250.000	249.026	0.4	99	0.00
16	T	Acetone	250.000	245.008	2.0	103	-0.01
17	T	Carbon Disulfide	50.000	51.176	-2.4	101	0.00
18	T	Methyl Acetate	50.000	52.900	-5.8	107	-0.01
19	T	Methyl tert-butyl Ether	50.000	52.830	-5.7	104	-0.01
20	T	Methylene Chloride	50.000	49.813	0.4	98	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.123	-4.2	104	-0.02
22	T	Diisopropyl ether	50.000	51.275	-2.5	100	0.00
23	T	Vinyl Acetate	250.000	252.263	-0.9	98	-0.01
24	P	1,1-Dichloroethane	50.000	52.696	-5.4	105	0.00
25	T	2-Butanone	250.000	252.423	-1.0	102	0.00
26	T	2,2-Dichloropropane	50.000	50.652	-1.3	97	-0.01
27	T	cis-1,2-Dichloroethene	50.000	53.648	-7.3	105	0.00
28	T	Bromochloromethane	50.000	45.011	10.0	90	0.00
29	T	Tetrahydrofuran	250.000	250.929	-0.4	98	0.00
30	C	Chloroform	50.000	52.832	-5.7#	106	0.00
31	T	Cyclohexane	50.000	49.800	0.4	102	0.00
32	T	1,1,1-Trichloroethane	50.000	52.053	-4.1	103	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.897	2.2	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	98	-0.01
35	S	Dibromofluoromethane	50.000	51.057	-2.1	104	0.00
36	T	1,1-Dichloropropene	50.000	51.915	-3.8	104	0.00
37	T	Ethyl Acetate	50.000	45.864	8.3	91	0.00
38	T	Carbon Tetrachloride	50.000	52.406	-4.8	104	0.00
39	T	Methylcyclohexane	50.000	52.118	-4.2	102	0.00
40	TM	Benzene	50.000	52.775	-5.5	105	0.00
41	T	Methacrylonitrile	50.000	48.818	2.4	95	0.00
42	TM	1,2-Dichloroethane	50.000	50.050	-0.1	101	0.00
43	T	Isopropyl Acetate	50.000	48.848	2.3	97	0.00
44	TM	Trichloroethene	50.000	53.677	-7.4	107	0.00
45	C	1,2-Dichloropropane	50.000	52.181	-4.4#	106	0.00
46	T	Dibromomethane	50.000	52.186	-4.4	104	0.00
47	T	Bromodichloromethane	50.000	52.588	-5.2	107	0.00
48	T	Methyl methacrylate	50.000	49.439	1.1	97	0.00

Sample Results: **VW032036.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032036.D
Acq On : 07 Aug 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 08 04:05:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
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	1249.561	-25.0	108	0.00
50	S	Toluene-d8	50.000	51.496	-3.0	106	0.00
51	T	4-Methyl-2-Pentanone	250.000	246.155	1.5	96	0.00
52	CM	Toluene	50.000	52.587	-5.2#	105	0.00
53	T	t-1,3-Dichloropropene	50.000	52.313	-4.6	104	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.390	-4.8	103	0.00
55	T	1,1,2-Trichloroethane	50.000	51.321	-2.6	103	0.00
56	T	Ethyl methacrylate	50.000	52.141	-4.3	100	0.00
57	T	1,3-Dichloropropane	50.000	50.658	-1.3	100	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	225.217	9.9	88	0.00
59	T	2-Hexanone	250.000	247.498	1.0	97	0.00
60	T	Dibromochloromethane	50.000	51.908	-3.8	103	0.00
61	T	1,2-Dibromoethane	50.000	51.204	-2.4	102	0.00
62	S	4-Bromofluorobenzene	50.000	49.606	0.8	104	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64	T	Tetrachloroethene	50.000	50.348	-0.7	106	0.00
65	PM	Chlorobenzene	50.000	50.142	-0.3	103	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.402	-2.8	107	0.00
67	C	Ethyl Benzene	50.000	51.453	-2.9#	103	0.00
68	T	m/p-Xylenes	100.000	105.003	-5.0	107	0.00
69	T	o-Xylene	50.000	52.301	-4.6	105	0.00
70	T	Styrene	50.000	52.816	-5.6	105	0.00
71	P	Bromoform	50.000	50.346	-0.7	99	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73	T	Isopropylbenzene	50.000	51.488	-3.0	104	0.00
74	T	N-amyl acetate	50.000	48.700	2.6	99	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.722	4.6	99	0.00
76	T	1,2,3-Trichloropropane	50.000	46.126	7.7	95	0.00
77	T	Bromobenzene	50.000	50.604	-1.2	108	0.00
78	T	n-propylbenzene	50.000	50.439	-0.9	104	0.00
79	T	2-Chlorotoluene	50.000	51.439	-2.9	108	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.480	-3.0	107	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.665	-1.3	104	0.00
82	T	4-Chlorotoluene	50.000	50.381	-0.8	106	0.00
83	T	tert-Butylbenzene	50.000	52.719	-5.4	109	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.148	-0.3	103	0.00
85	T	sec-Butylbenzene	50.000	50.514	-1.0	105	0.00
86	T	p-Isopropyltoluene	50.000	50.158	-0.3	103	0.00
87	T	1,3-Dichlorobenzene	50.000	50.134	-0.3	106	0.00
88	T	1,4-Dichlorobenzene	50.000	48.185	3.6	104	0.00
89	T	n-Butylbenzene	50.000	51.533	-3.1	105	0.00
90	T	Hexachloroethane	50.000	51.687	-3.4	110	0.00
91	T	1,2-Dichlorobenzene	50.000	49.607	0.8	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.714	8.6	98	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.946	0.1	109	0.00
94	T	Hexachlorobutadiene	50.000	48.409	3.2	101	0.00
95	T	Naphthalene	50.000	48.958	2.1	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032036.D
Acq On : 07 Aug 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Aug 08 04:05:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	47.223	5.6	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

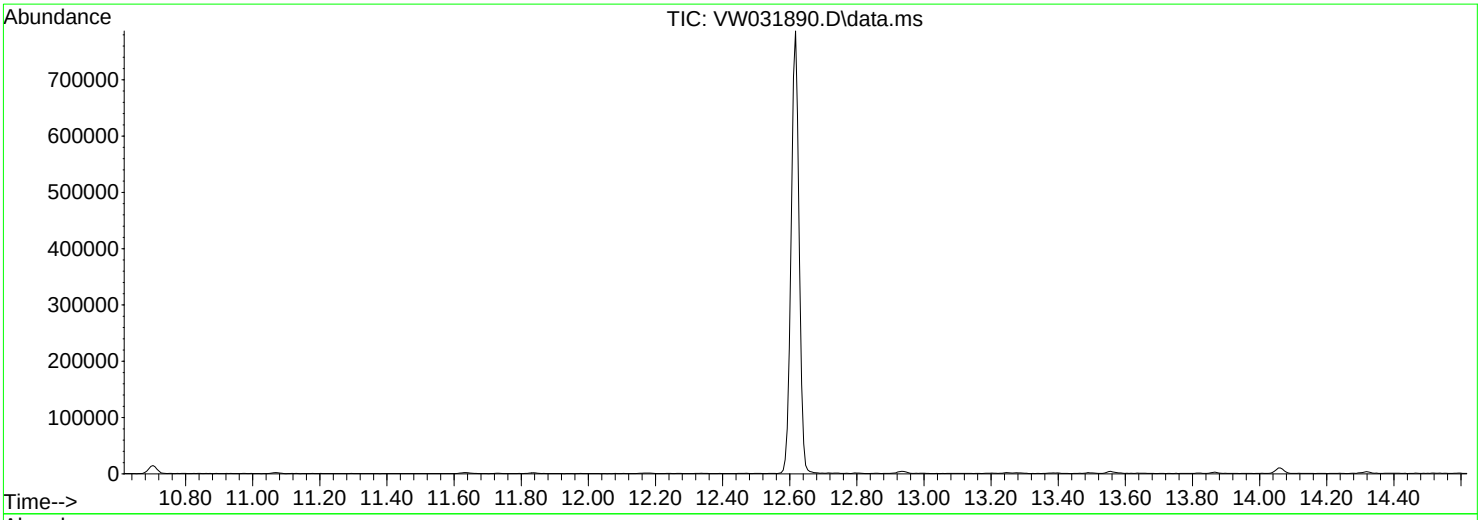
Sample Results: **VW031890.D**

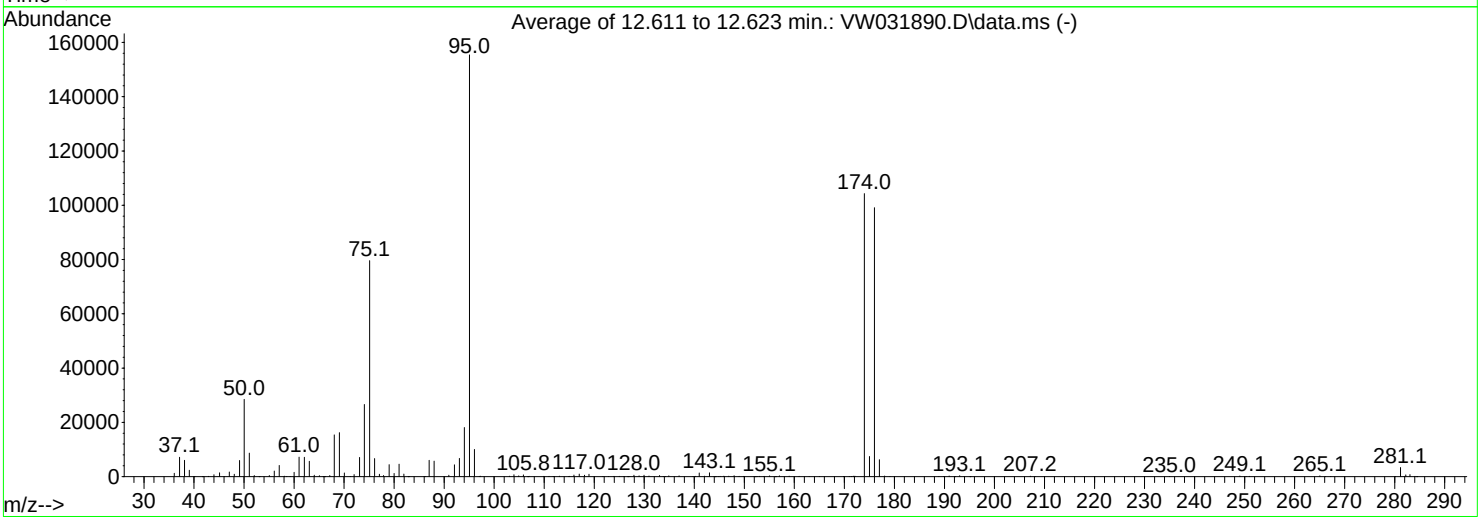
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072225\
Data File : VW031890.D
Acq On : 22 Jul 2025 08:14
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Title : SW846 8260
Last Update : Wed Jul 23 08:18:46 2025





AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1750

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	28475	PASS
75	95	30	60	51.2	79621	PASS
95	95	100	100	100.0	155413	PASS
96	95	5	9	6.4	10008	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.1	104317	PASS
175	174	5	9	7.1	7429	PASS
176	174	95	101	95.0	99120	PASS
177	176	5	9	6.3	6263	PASS

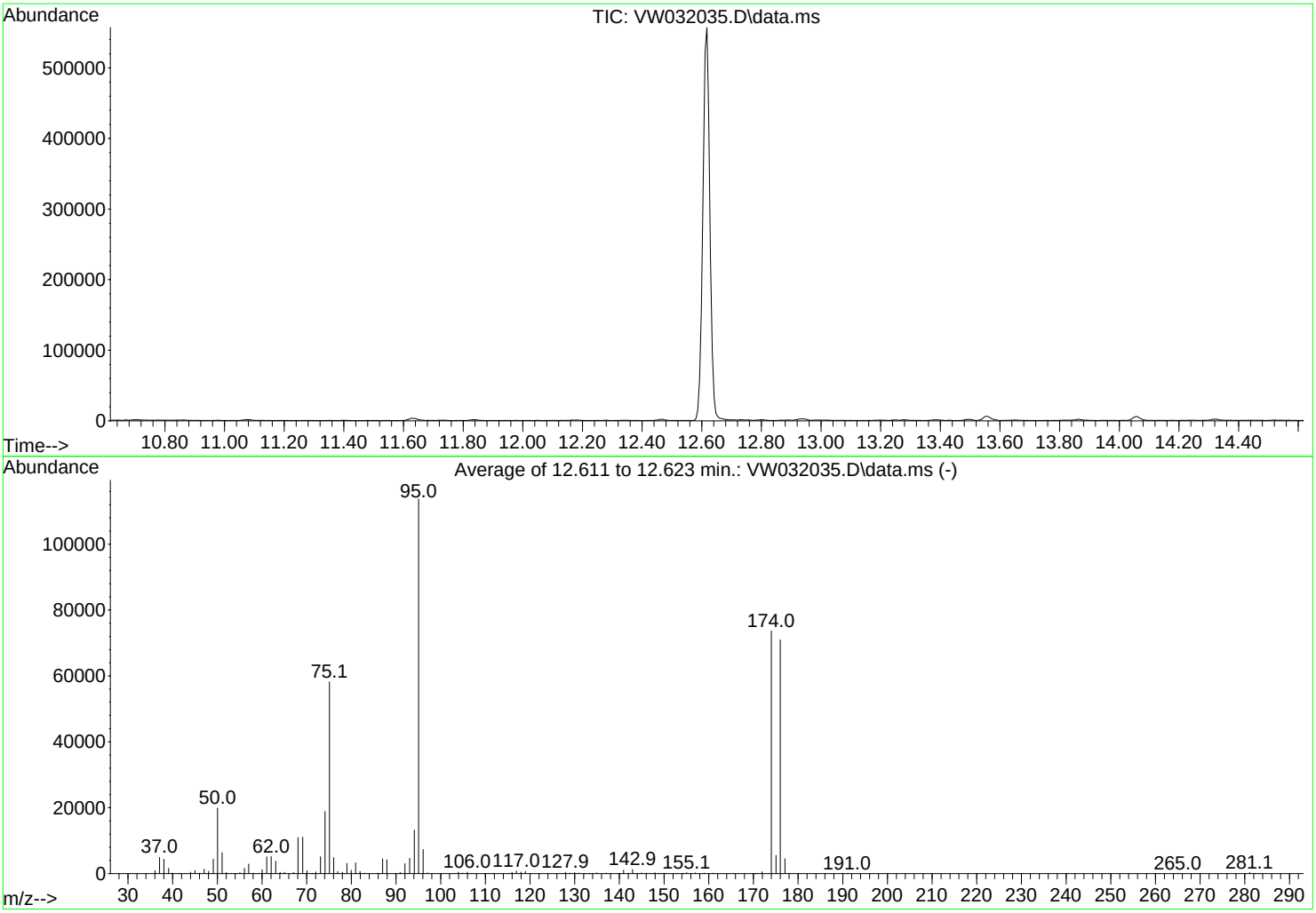
Sample Results: **VW032035.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032035.D
Acq On : 07 Aug 2025 08:05
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Title : SW846 8260
Last Update : Wed Jul 23 08:18:46 2025



AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1750

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	19886	PASS
75	95	30	60	51.2	58192	PASS
95	95	100	100	100.0	113712	PASS
96	95	5	9	6.4	7317	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.8	73664	PASS
175	174	5	9	7.5	5506	PASS
176	174	95	101	96.3	70952	PASS
177	176	5	9	6.4	4545	PASS

Raw Data: **VW032037.D**

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Girard School - PA	Date Received:	
Client Sample ID:	VW0807SBL01	SDG No.:	Q2795
Lab Sample ID:	VW0807SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	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:	Date Analyzed	Prep Batch ID
VW032037.D	1	08/07/25 11:10	VW080725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
1330-20-7	Total Xylenes	2.02	U	2.02	15.0	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		70 - 134	94%	SPK: 50
2037-26-5	Toluene-d8	45.7		74 - 123	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		17 - 146	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	166000	7.953			
540-36-3	1,4-Difluorobenzene	366000	8.849			
3114-55-4	Chlorobenzene-d5	355000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	157000	13.556			

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_W\Data\VW080725\
Data File : VW032037.D
Acq On : 07 Aug 2025 11:10
Operator : SY/MD
Sample : VW0807SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0807SBL01

Quant Time: Aug 08 04:06:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

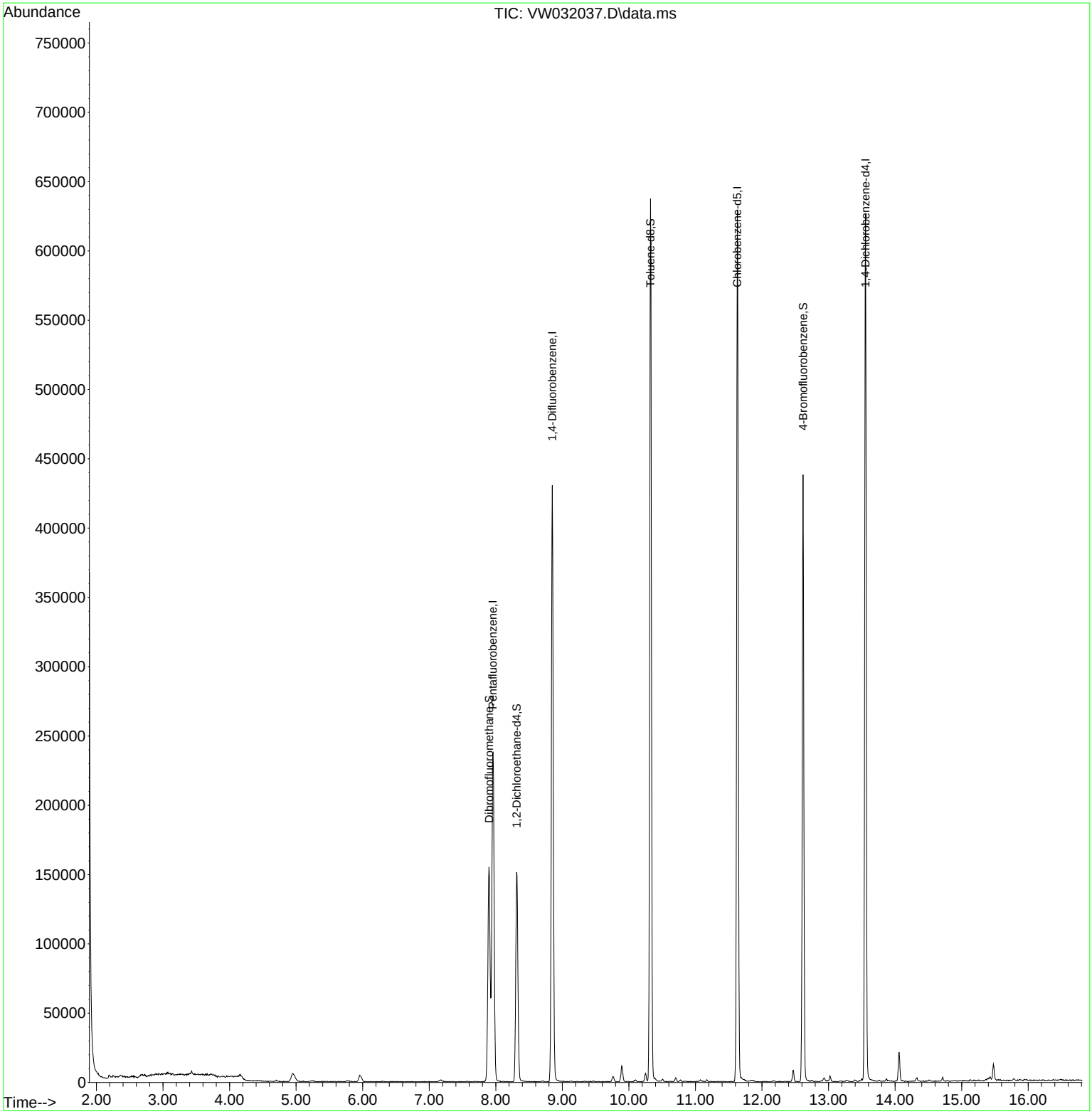
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.953	168	166168	50.000	ug/l	#-0.01
34) 1,4-Difluorobenzene	8.849	114	366099	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	354996	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	157487	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	125995	50.123	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 100.240%			
35) Dibromofluoromethane	7.898	113	117413	47.198	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 94.400%			
50) Toluene-d8	10.325	98	430026	45.674	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 91.340%			
62) 4-Bromofluorobenzene	12.617	95	158980	43.975	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 87.960%			
Target Compounds						Qvalue

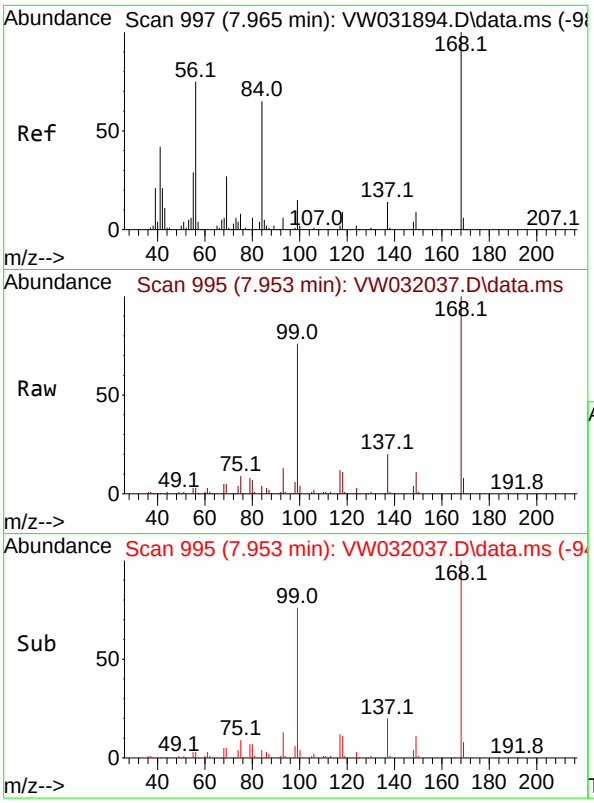
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032037.D
Acq On : 07 Aug 2025 11:10
Operator : SY/MD
Sample : VW0807SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0807SBL01

Quant Time: Aug 08 04:06:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration



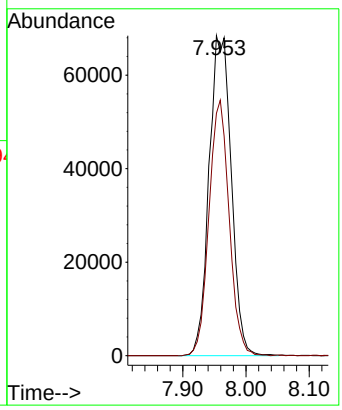


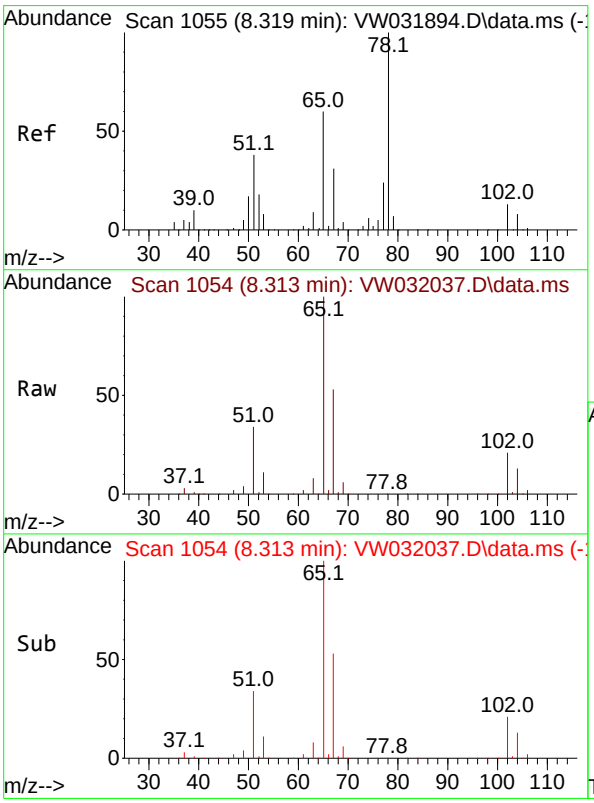
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.953 min Scan# 9
Delta R.T. -0.012 min
Lab File: VW032037.D
Acq: 07 Aug 2025 11:10

Instrument :
MSVOA_W
ClientSampleId :
VW0807SBL01

Tgt Ion:168 Resp: 166168

Ion	Ratio	Lower	Upper
168	100		
99	75.7	48.2	72.2#

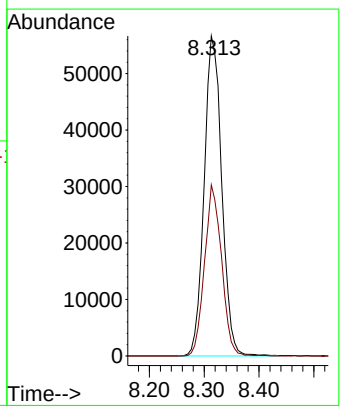


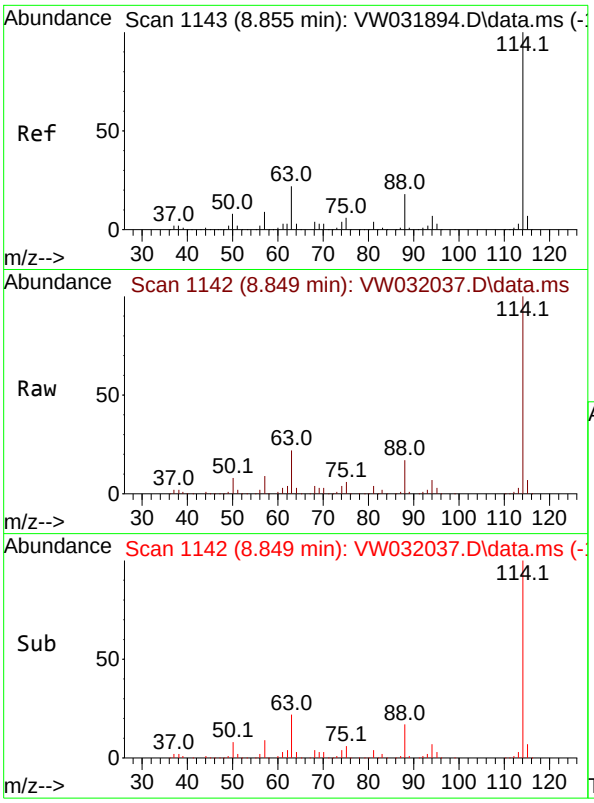


#33
1,2-Dichloroethane-d4
Concen: 50.123 ug/l
RT: 8.313 min Scan# 1054
Delta R.T. -0.006 min
Lab File: VW032037.D
Acq: 07 Aug 2025 11:10

Tgt Ion: 65 Resp: 125995

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	101.4



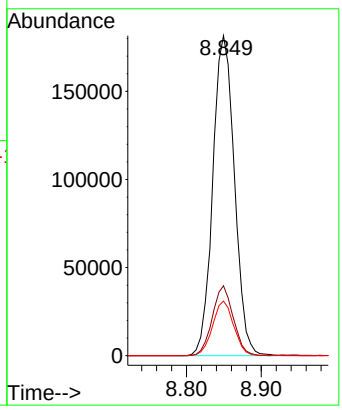


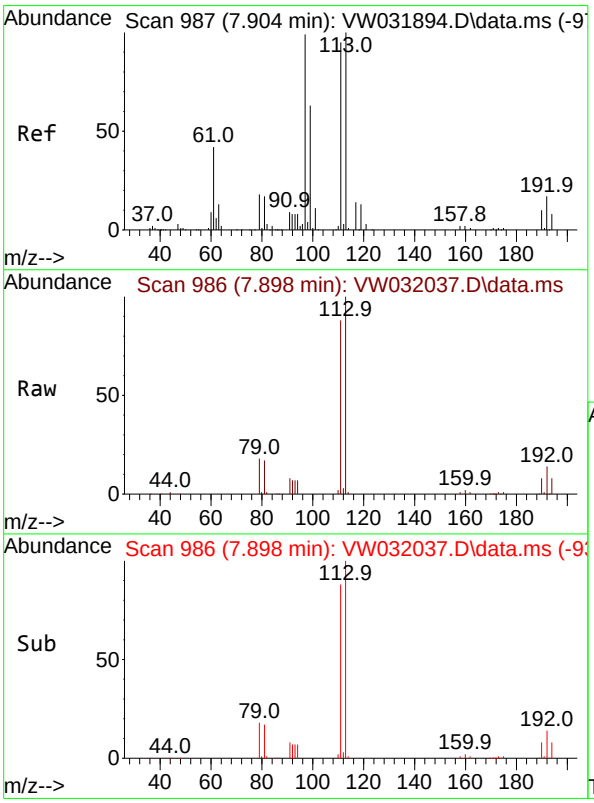
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032037.D
Acq: 07 Aug 2025 11:10

Instrument :
MSVOA_W
ClientSampleId :
VW0807SBL01

Tgt Ion:114 Resp: 366099

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.2
88	17.0	0.0	35.6

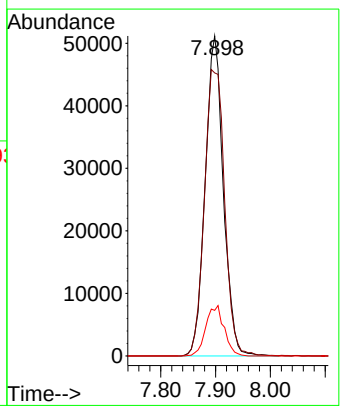


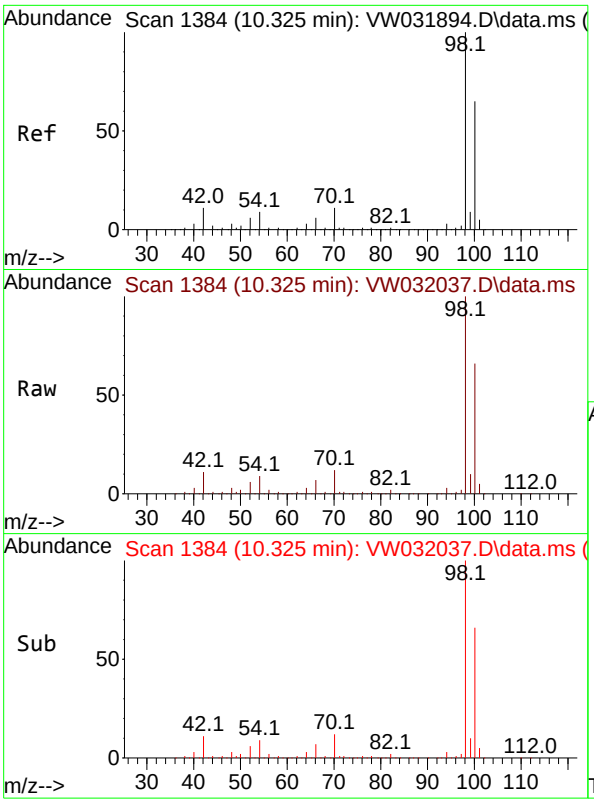


#35
Dibromofluoromethane
Concen: 47.198 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032037.D
Acq: 07 Aug 2025 11:10

Tgt Ion:113 Resp: 117413

Ion	Ratio	Lower	Upper
113	100		
111	99.9	79.9	119.9
192	15.9	12.6	19.0



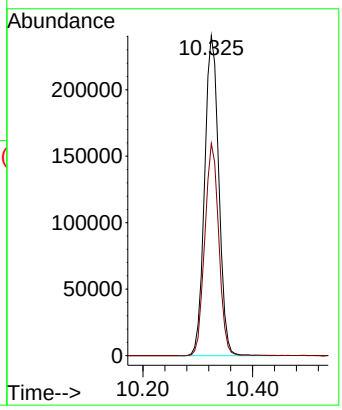


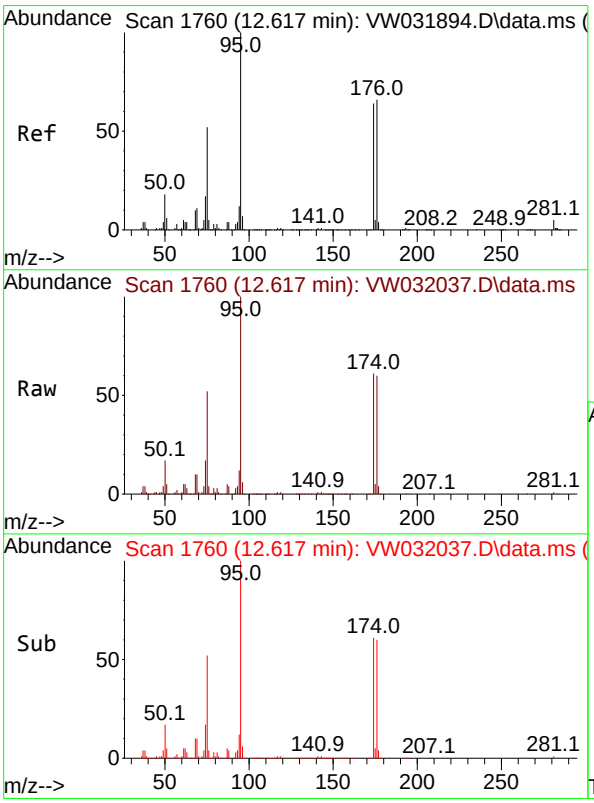
#50
Toluene-d8
Concen: 45.674 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032037.D
Acq: 07 Aug 2025 11:10

Instrument :
MSVOA_W
ClientSampleId :
VW0807SBL01

Tgt Ion: 98 Resp: 430026

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.7	77.5

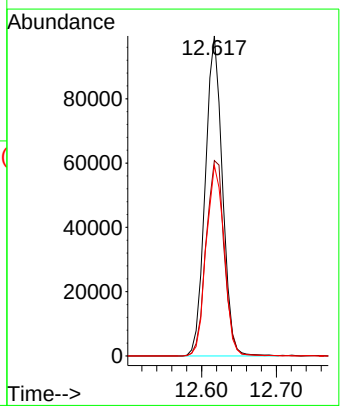


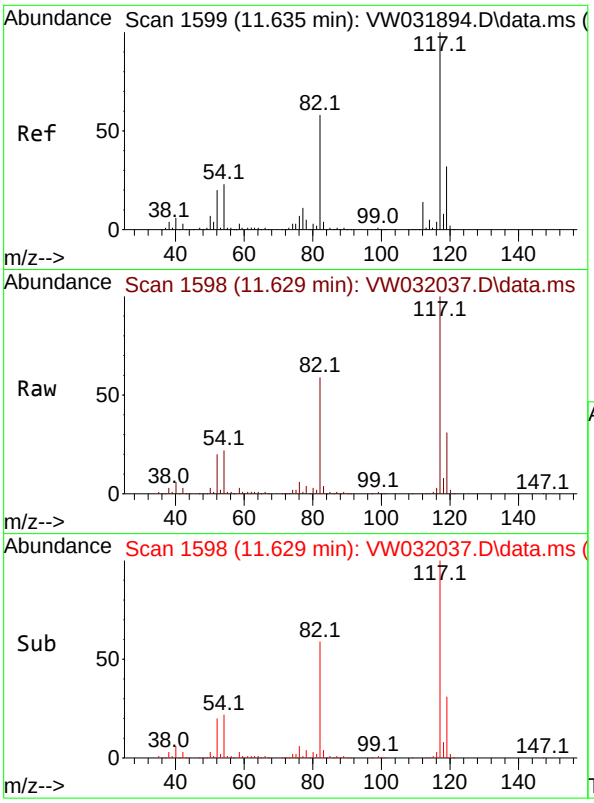


#62
4-Bromofluorobenzene
Concen: 43.975 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032037.D
Acq: 07 Aug 2025 11:10

Tgt Ion: 95 Resp: 158980

Ion	Ratio	Lower	Upper
95	100		
174	65.2	0.0	129.8
176	62.5	0.0	130.4



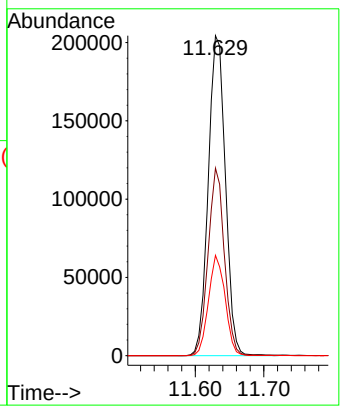


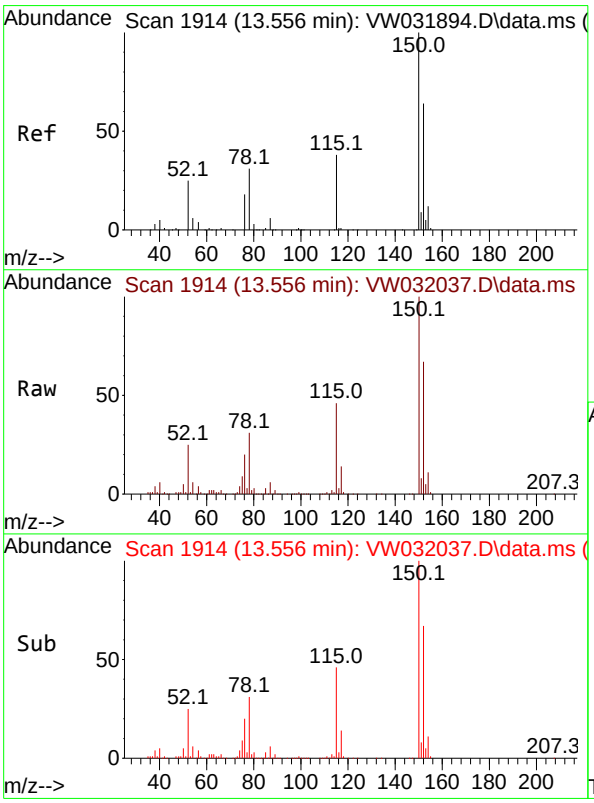
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032037.D
Acq: 07 Aug 2025 11:10

Instrument :
MSVOA_W
ClientSampleId :
VW0807SBL01

Tgt Ion:117 Resp: 354996

Ion	Ratio	Lower	Upper
117	100		
82	58.6	46.5	69.7
119	31.4	25.8	38.6

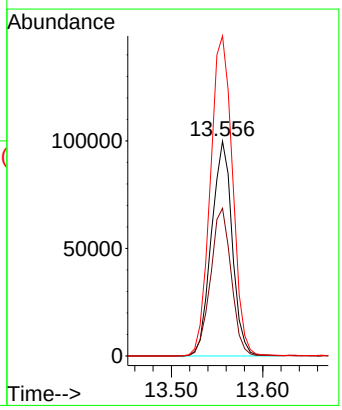




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032037.D
Acq: 07 Aug 2025 11:10

Tgt Ion:152 Resp: 157487

Ion	Ratio	Lower	Upper
152	100		
115	68.6	33.4	100.1
150	159.0	0.0	352.2



Raw Data: **VW032038.D**

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Girard School - PA	Date Received:	
Client Sample ID:	VW0807SBS01	SDG No.:	Q2795
Lab Sample ID:	VW0807SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	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:	Date Analyzed	Prep Batch ID
VW032038.D	1	08/07/25 12:20	VW080725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	19.4		0.75	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	18.5		0.93	5.00	ug/Kg
71-43-2	Benzene	20.1		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.3		0.81	5.00	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.8		0.67	5.00	ug/Kg
1330-20-7	Total Xylenes	59.2		2.02	15.0	ug/Kg
98-82-8	Isopropylbenzene	18.4		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	52.1		74 - 123	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		17 - 146	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	223000	7.965			
540-36-3	1,4-Difluorobenzene	402000	8.849			
3114-55-4	Chlorobenzene-d5	365000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	177000	13.556			

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_W\Data\VW080725\
Data File : VW032038.D
Acq On : 07 Aug 2025 12:20
Operator : SY/MD
Sample : VW0807SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 08 04:06:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0807SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/08/2025
Supervised By :Semsettin Yesilyurt 08/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	222702	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	401808	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	364622	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	176923	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	168804	50.106	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 100.220%			
35) Dibromofluoromethane	7.898	113	142090	52.041	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 104.080%			
50) Toluene-d8	10.325	98	538568	52.119	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 104.240%			
62) 4-Bromofluorobenzene	12.617	95	202947	51.148	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 102.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	27676	16.721	ug/l	98
3) Chloromethane	2.253	50	39468	18.578	ug/l	99
4) Vinyl Chloride	2.405	62	46740	16.937	ug/l	100
5) Bromomethane	2.820	94	34996	17.221	ug/l	97
6) Chloroethane	2.972	64	33116	18.182	ug/l	92
7) Trichlorofluoromethane	3.301	101	43549	15.580	ug/l	95
8) Diethyl Ether	3.722	74	33694	18.046	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.100	101	51015m	18.975	ug/l	
10) Methyl Iodide	4.314	142	68202	16.967	ug/l	100
11) Tert butyl alcohol	5.222	59	23537	118.856	ug/l	99
12) 1,1-Dichloroethene	4.076	96	54876	18.480	ug/l	87
13) Acrolein	3.936	56	13663	41.525	ug/l	96
14) Allyl chloride	4.704	41	77624	16.792	ug/l	100
15) Acrylonitrile	5.399	53	84474	101.197	ug/l	98
16) Acetone	4.161	43	95219	119.109	ug/l	97
17) Carbon Disulfide	4.423	76	124628	16.182	ug/l	98
18) Methyl Acetate	4.710	43	44414	20.166	ug/l	98
19) Methyl tert-butyl Ether	5.472	73	97759	19.053	ug/l	98
20) Methylene Chloride	4.954	84	74163	18.785	ug/l	99
21) trans-1,2-Dichloroethene	5.460	96	56219	17.843	ug/l	96
22) Diisopropyl ether	6.344	45	175847	19.011	ug/l	97
23) Vinyl Acetate	6.283	43	578730	95.766	ug/l	98
24) 1,1-Dichloroethane	6.240	63	109565	19.024	ug/l	98
25) 2-Butanone	7.191	43	118382	108.230	ug/l	96
26) 2,2-Dichloropropane	7.191	77	57300	17.574	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	71740	19.368	ug/l	98
28) Bromochloromethane	7.532	49	43556	18.063	ug/l	97
29) Tetrahydrofuran	7.551	42	72776	101.483	ug/l	98
30) Chloroform	7.697	83	118741	19.664	ug/l	100
31) Cyclohexane	7.971	56	93781	18.151	ug/l	96
32) 1,1,1-Trichloroethane	7.892	97	85026	18.504	ug/l	100
36) 1,1-Dichloropropene	8.093	75	80214	19.130	ug/l	100
37) Ethyl Acetate	7.276	43	46880	19.599	ug/l	96
38) Carbon Tetrachloride	8.081	117	77958	19.373	ug/l	95
39) Methylcyclohexane	9.343	83	98528	18.672	ug/l	98
40) Benzene	8.337	78	249353	20.089	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032038.D
Acq On : 07 Aug 2025 12:20
Operator : SY/MD
Sample : VW0807SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 08 04:06:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0807SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/08/2025
Supervised By :Semsettin Yesilyurt 08/08/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.508	41	26083	18.216	ug/l	#	88
42) 1,2-Dichloroethane	8.410	62	79933	20.122	ug/l		100
43) Isopropyl Acetate	8.441	43	86742	20.032	ug/l		98
44) Trichloroethene	9.099	130	60004	20.338	ug/l		98
45) 1,2-Dichloropropane	9.374	63	59675	19.963	ug/l		96
46) Dibromomethane	9.465	93	38008	20.511	ug/l		97
47) Bromodichloromethane	9.654	83	89640	20.174	ug/l		98
48) Methyl methacrylate	9.441	41	41857	20.318	ug/l		98
49) 1,4-Dioxane	9.459	88	10159	549.429	ug/l	#	97
51) 4-Methyl-2-Pentanone	10.215	43	254250	107.287	ug/l		99
52) Toluene	10.392	92	163597	20.503	ug/l		100
53) t-1,3-Dichloropropene	10.611	75	83153	19.509	ug/l		100
54) cis-1,3-Dichloropropene	10.081	75	93586	19.226	ug/l		96
55) 1,1,2-Trichloroethane	10.788	97	52004	21.128	ug/l		96
56) Ethyl methacrylate	10.648	69	71431	20.548	ug/l		100
57) 1,3-Dichloropropane	10.934	76	89266	20.586	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	158256	88.629	ug/l		98
59) 2-Hexanone	10.971	43	173610	105.394	ug/l		98
60) Dibromochloromethane	11.129	129	57601	20.071	ug/l		99
61) 1,2-Dibromoethane	11.233	107	49604	20.395	ug/l		99
64) Tetrachloroethene	10.861	164	47561	19.784	ug/l		92
65) Chlorobenzene	11.660	112	171341	19.200	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.733	131	55304	19.990	ug/l		98
67) Ethyl Benzene	11.733	91	310524	19.805	ug/l		98
68) m/p-Xylenes	11.837	106	232839	39.447	ug/l		98
69) o-Xylene	12.166	106	110605	19.800	ug/l		100
70) Styrene	12.184	104	194305	20.430	ug/l		99
71) Bromoform	12.349	173	29970	19.808	ug/l	#	99
73) Isopropylbenzene	12.464	105	282323	18.391	ug/l		99
74) N-amyl acetate	12.269	43	81433	19.622	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	64731	19.866	ug/l		99
76) 1,2,3-Trichloropropane	12.769	75	49621m	20.314	ug/l		
77) Bromobenzene	12.745	156	64620	19.455	ug/l		94
78) n-propylbenzene	12.800	91	361194	19.158	ug/l		99
79) 2-Chlorotoluene	12.891	91	213575	18.973	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	242025	18.799	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	19329	18.269	ug/l		92
82) 4-Chlorotoluene	12.983	91	227385	19.255	ug/l		98
83) tert-Butylbenzene	13.202	119	204705	18.666	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	247279	18.976	ug/l		97
85) sec-Butylbenzene	13.379	105	314300	19.084	ug/l		100
86) p-Isopropyltoluene	13.495	119	254465	18.693	ug/l		100
87) 1,3-Dichlorobenzene	13.501	146	134403	19.440	ug/l		99
88) 1,4-Dichlorobenzene	13.574	146	136912	20.215	ug/l		98
89) n-Butylbenzene	13.818	91	255398	19.126	ug/l		99
90) Hexachloroethane	14.086	117	43546	18.500	ug/l		94
91) 1,2-Dichlorobenzene	13.867	146	121255	19.789	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	14.476	75	10864	18.455	ug/l		96
93) 1,2,4-Trichlorobenzene	15.129	180	71058	19.229	ug/l		91
94) Hexachlorobutadiene	15.226	225	29810	17.024	ug/l		89
95) Naphthalene	15.360	128	176347	19.411	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	66726	19.930	ug/l		93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032038.D
Acq On : 07 Aug 2025 12:20
Operator : SY/MD
Sample : VW0807SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 08 04:06:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0807SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/08/2025
Supervised By :Semsettin Yesilyurt 08/08/2025

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
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ClientSampleId :
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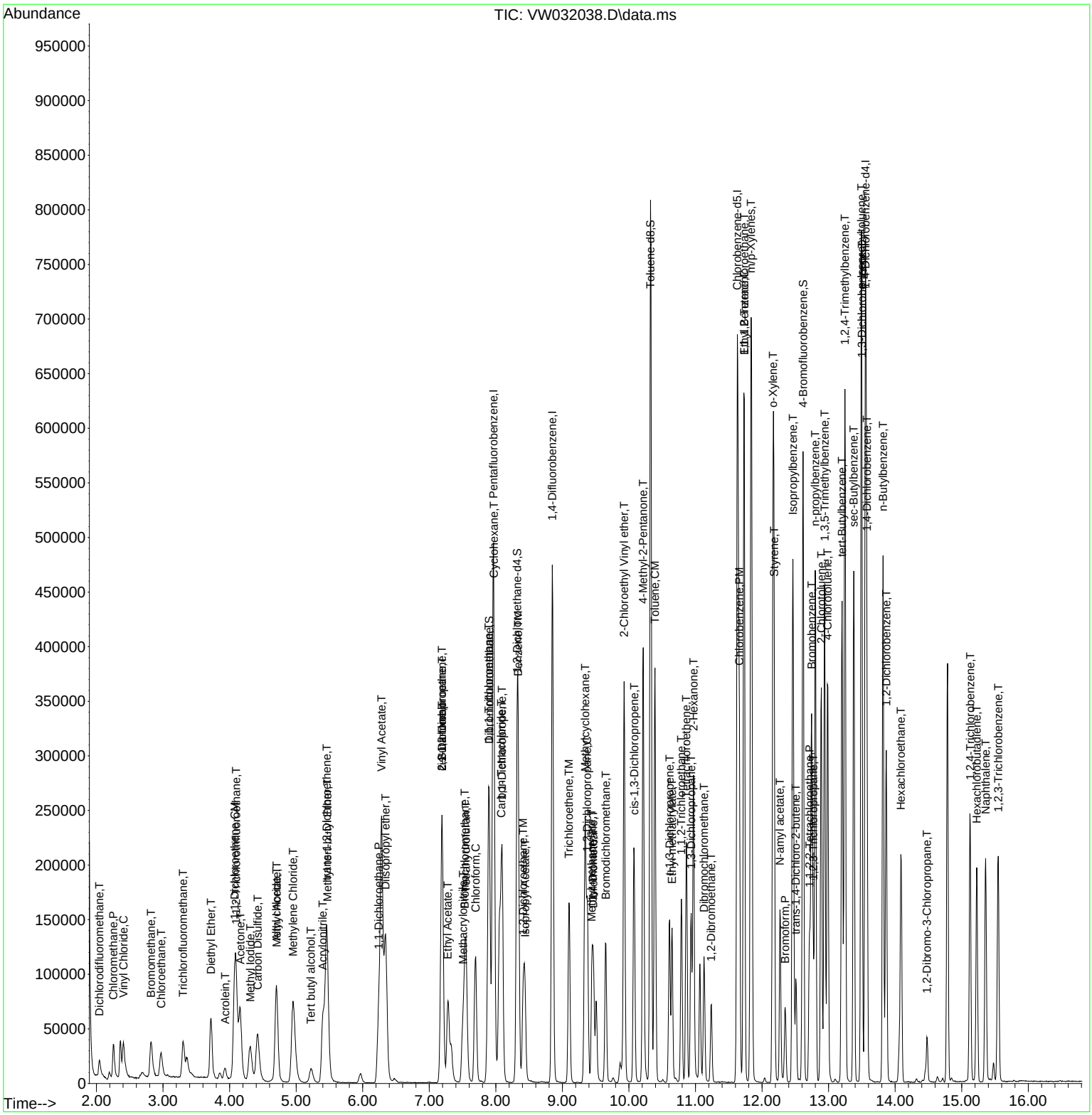
Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/08/2025
Supervised By :Semsettin Yesilyurt 08/08/2025



Raw Data: **VW032039.D**

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Girard School - PA	Date Received:	
Client Sample ID:	VW0807SBSD01	SDG No.:	Q2795
Lab Sample ID:	VW0807SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	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:	Date Analyzed	Prep Batch ID
VW032039.D	1	08/07/25 12:43	VW080725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	19.5		0.75	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	18.9		0.93	5.00	ug/Kg
71-43-2	Benzene	20.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.67	5.00	ug/Kg
1330-20-7	Total Xylenes	61.4		2.02	15.0	ug/Kg
98-82-8	Isopropylbenzene	19.3		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.0		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	51.3		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.5		17 - 146	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	226000	7.959			
540-36-3	1,4-Difluorobenzene	406000	8.849			
3114-55-4	Chlorobenzene-d5	360000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	174000	13.556			

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

Sample Results: **VW032039.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032039.D
Acq On : 07 Aug 2025 12:43
Operator : SY/MD
Sample : VW0807SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 08 04:07:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0807SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/08/2025
Supervised By :Semsettin Yesilyurt 08/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	226447	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	405839	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	359768	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	173676	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	164328	47.971	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 95.940%			
35) Dibromofluoromethane	7.898	113	141044	51.145	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 102.280%			
50) Toluene-d8	10.325	98	535520	51.309	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 102.620%			
62) 4-Bromofluorobenzene	12.617	95	202439	50.513	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 101.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	30142	17.910	ug/l	97
3) Chloromethane	2.253	50	40730	18.855	ug/l	97
4) Vinyl Chloride	2.405	62	48962	17.448	ug/l	100
5) Bromomethane	2.820	94	35493	17.177	ug/l	92
6) Chloroethane	2.966	64	34195	18.464	ug/l	97
7) Trichlorofluoromethane	3.302	101	46266	16.279	ug/l	100
8) Diethyl Ether	3.716	74	34334	18.085	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.094	101	52454	19.188	ug/l	99
10) Methyl Iodide	4.314	142	72889	17.833	ug/l	96
11) Tert butyl alcohol	5.222	59	22969	114.070	ug/l	98
12) 1,1-Dichloroethene	4.076	96	57179	18.937	ug/l	96
13) Acrolein	3.929	56	12533	36.552	ug/l	100
14) Allyl chloride	4.704	41	79863	16.991	ug/l	99
15) Acrylonitrile	5.405	53	84419	99.459	ug/l	98
16) Acetone	4.161	43	92649	113.977	ug/l	100
17) Carbon Disulfide	4.417	76	131839	16.836	ug/l	98
18) Methyl Acetate	4.710	43	45072	20.126	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	101528	19.461	ug/l	99
20) Methylene Chloride	4.954	84	77592	19.477	ug/l	97
21) trans-1,2-Dichloroethene	5.460	96	60622	18.923	ug/l	90
22) Diisopropyl ether	6.344	45	178627	18.992	ug/l	96
23) Vinyl Acetate	6.283	43	590908	96.164	ug/l	98
24) 1,1-Dichloroethane	6.246	63	112111	19.145	ug/l	98
25) 2-Butanone	7.197	43	113192	101.774	ug/l	96
26) 2,2-Dichloropropane	7.185	77	58415	17.620	ug/l	98
27) cis-1,2-Dichloroethene	7.197	96	73312	19.465	ug/l	99
28) Bromochloromethane	7.532	49	44535	18.164	ug/l	97
29) Tetrahydrofuran	7.551	42	73576	100.902	ug/l	99
30) Chloroform	7.697	83	123016	20.035	ug/l	95
31) Cyclohexane	7.971	56	98958	18.836	ug/l	97
32) 1,1,1-Trichloroethane	7.886	97	88255	18.889	ug/l	98
36) 1,1-Dichloropropene	8.093	75	83382	19.688	ug/l	100
37) Ethyl Acetate	7.276	43	50064	20.722	ug/l	98
38) Carbon Tetrachloride	8.081	117	80067	19.699	ug/l	98
39) Methylcyclohexane	9.343	83	102567	19.244	ug/l	98
40) Benzene	8.337	78	255113	20.349	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032039.D
Acq On : 07 Aug 2025 12:43
Operator : SY/MD
Sample : VW0807SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 08 04:07:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0807SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/08/2025
Supervised By :Semsettin Yesilyurt 08/08/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	28932	20.005	ug/l		96
42) 1,2-Dichloroethane	8.410	62	81233	20.246	ug/l		99
43) Isopropyl Acetate	8.435	43	87061	19.906	ug/l		99
44) Trichloroethene	9.099	130	60749	20.386	ug/l		98
45) 1,2-Dichloropropane	9.374	63	62044	20.549	ug/l		93
46) Dibromomethane	9.465	93	38075	20.343	ug/l		99
47) Bromodichloromethane	9.654	83	90563	20.179	ug/l		99
48) Methyl methacrylate	9.441	41	42775	20.557	ug/l		98
49) 1,4-Dioxane	9.459	88	9931	531.764	ug/l		91
51) 4-Methyl-2-Pentanone	10.215	43	250342	104.589	ug/l		98
52) Toluene	10.392	92	165464	20.531	ug/l		98
53) t-1,3-Dichloropropene	10.611	75	85139	19.776	ug/l		99
54) cis-1,3-Dichloropropene	10.075	75	95600	19.445	ug/l		97
55) 1,1,2-Trichloroethane	10.788	97	53588	21.555	ug/l		93
56) Ethyl methacrylate	10.648	69	70950	20.207	ug/l		99
57) 1,3-Dichloropropane	10.934	76	89412	20.414	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	177808	98.590	ug/l		100
59) 2-Hexanone	10.971	43	175155	105.276	ug/l		98
60) Dibromochloromethane	11.129	129	61494	21.215	ug/l		93
61) 1,2-Dibromoethane	11.239	107	49702	20.232	ug/l		97
64) Tetrachloroethene	10.867	164	48680	20.523	ug/l		84
65) Chlorobenzene	11.660	112	183286	20.816	ug/l		92
66) 1,1,1,2-Tetrachloroethane	11.733	131	56132	20.564	ug/l		97
67) Ethyl Benzene	11.727	91	311293	20.122	ug/l		97
68) m/p-Xylenes	11.837	106	241702	41.501	ug/l		98
69) o-Xylene	12.166	106	109847	19.930	ug/l		97
70) Styrene	12.178	104	198013	21.101	ug/l		99
71) Bromoform	12.349	173	29897	20.026	ug/l	#	99
73) Isopropylbenzene	12.465	105	290445	19.274	ug/l		97
74) N-amyl acetate	12.269	43	80274	19.704	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	65194	20.382	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	47795m	19.932	ug/l		
77) Bromobenzene	12.745	156	65096	19.965	ug/l		97
78) n-propylbenzene	12.800	91	367190	19.840	ug/l		99
79) 2-Chlorotoluene	12.891	91	223628	20.237	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	246619	19.513	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.507	75	19612	18.883	ug/l		92
82) 4-Chlorotoluene	12.989	91	236248	20.379	ug/l		99
83) tert-Butylbenzene	13.202	119	210033	19.510	ug/l		98
84) 1,2,4-Trimethylbenzene	13.251	105	251775	19.682	ug/l		99
85) sec-Butylbenzene	13.379	105	314897	19.478	ug/l		99
86) p-Isopropyltoluene	13.495	119	264064	19.761	ug/l		98
87) 1,3-Dichlorobenzene	13.495	146	133282	19.638	ug/l		99
88) 1,4-Dichlorobenzene	13.574	146	132533	19.934	ug/l		99
89) n-Butylbenzene	13.818	91	257087	19.612	ug/l		99
90) Hexachloroethane	14.086	117	44125	19.096	ug/l		93
91) 1,2-Dichlorobenzene	13.867	146	118139	19.641	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.476	75	11210	19.398	ug/l		99
93) 1,2,4-Trichlorobenzene	15.129	180	71167	19.619	ug/l		97
94) Hexachlorobutadiene	15.226	225	34706	20.191	ug/l		97
95) Naphthalene	15.360	128	180030	20.187	ug/l		98
96) 1,2,3-Trichlorobenzene	15.543	180	65985	20.077	ug/l		95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080725\
Data File : VW032039.D
Acq On : 07 Aug 2025 12:43
Operator : SY/MD
Sample : VW0807SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 08 04:07:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 23 08:18:46 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0807SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/08/2025
Supervised By :Semsettin Yesilyurt 08/08/2025

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

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

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ClientSampleId :
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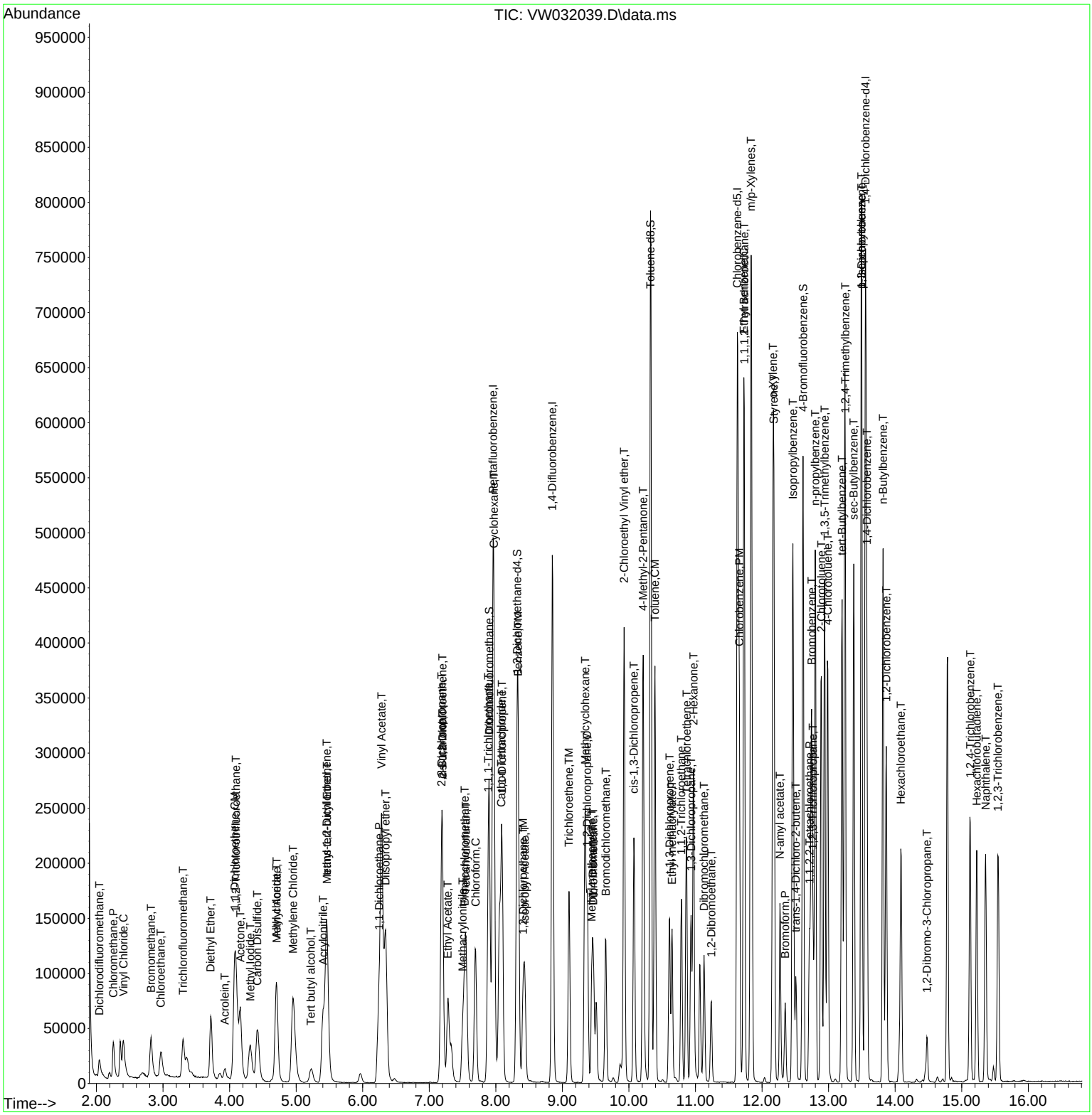

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VW072225	Instrument	MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VW031891.D	1,2,3-Trichloropropane	SAM	7/24/2025 3:07:49 PM	MMDadoda	7/24/2025 3:08:40 PM	Peak Integrated by Software
VSTDICC005	VW031891.D	Ethyl Acetate	SAM	7/24/2025 3:07:49 PM	MMDadoda	7/24/2025 3:08:40 PM	Peak Integrated by Software
VSTDICC005	VW031891.D	Methacrylonitrile	SAM	7/24/2025 3:07:49 PM	MMDadoda	7/24/2025 3:08:40 PM	Peak Integrated by Software
VSTDICC010	VW031892.D	1,2,3-Trichloropropane	SAM	7/24/2025 3:07:50 PM	MMDadoda	7/24/2025 3:08:42 PM	Peak Integrated by Software
VSTDICC010	VW031892.D	Methacrylonitrile	SAM	7/24/2025 3:07:50 PM	MMDadoda	7/24/2025 3:08:42 PM	Peak Integrated by Software
VSTDICC020	VW031893.D	1,2,3-Trichloropropane	SAM	7/24/2025 3:07:52 PM	MMDadoda	7/24/2025 3:08:43 PM	Peak Integrated by Software
VSTDICCC050	VW031894.D	1,2,3-Trichloropropane	SAM	7/24/2025 3:07:54 PM	MMDadoda	7/24/2025 3:08:45 PM	Peak Integrated by Software
VSTDICC100	VW031895.D	1,2,3-Trichloropropane	SAM	7/24/2025 3:07:55 PM	MMDadoda	7/24/2025 3:08:46 PM	Peak Integrated by Software
VSTDICC150	VW031896.D	1,2,3-Trichloropropane	SAM	7/24/2025 3:07:57 PM	MMDadoda	7/24/2025 3:08:48 PM	Peak Integrated by Software
VSTDICV050	VW031898.D	1,2,3-Trichloropropane	SAM	7/24/2025 3:07:59 PM	MMDadoda	7/24/2025 3:08:50 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vw080725	Instrument	MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VW032036.D	1,2,3-Trichloropropane	MMDadoda	8/8/2025 3:06:36 PM	Sam	8/8/2025 3:18:52 PM	Peak Integrated by Software
VW0807SBS01	VW032038.D	1,1,2-Trichlorotrifluoroethane	MMDadoda	8/8/2025 3:06:37 PM	Sam	8/8/2025 3:18:53 PM	Peak Integrated by Software
VW0807SBS01	VW032038.D	1,2,3-Trichloropropane	MMDadoda	8/8/2025 3:06:37 PM	Sam	8/8/2025 3:18:53 PM	Peak Integrated by Software
VW0807SBSD01	VW032039.D	1,2,3-Trichloropropane	MMDadoda	8/8/2025 3:06:38 PM	Sam	8/8/2025 3:18:54 PM	Peak Integrated by Software
VSTDCCC050	VW032050.D	1,2,3-Trichloropropane	MMDadoda	8/8/2025 3:06:40 PM	Sam	8/8/2025 3:18:55 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW072225

Review By	Semsettin Yesilyurt	Review On	7/24/2025 3:08:17 PM				
Supervise By	Mahesh Dadoda	Supervise On	7/24/2025 3:08:52 PM				
SubDirectory	VW072225	HP Acquire Method	MSVOA_W	HP Processing Method	82w072225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134865
Initial Calibration Stds	VP134866,VP134868,VP134869,VP134870,VP134873,VP134874
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134875
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW031890.D	22 Jul 2025 08:14	SY/MD	Ok
2	VSTDICC005	VW031891.D	22 Jul 2025 09:05	SY/MD	Ok,M
3	VSTDICC010	VW031892.D	22 Jul 2025 09:37	SY/MD	Ok,M
4	VSTDICC020	VW031893.D	22 Jul 2025 10:17	SY/MD	Ok,M
5	VSTDICCC050	VW031894.D	22 Jul 2025 10:39	SY/MD	Ok,M
6	VSTDICC100	VW031895.D	22 Jul 2025 11:18	SY/MD	Ok,M
7	VSTDICC150	VW031896.D	22 Jul 2025 12:00	SY/MD	Ok,M
8	VIBLK	VW031897.D	22 Jul 2025 12:21	SY/MD	Ok
9	VSTDICV050	VW031898.D	22 Jul 2025 14:47	SY/MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW080725

Review By	Mahesh Dadoda	Review On	8/8/2025 3:06:45 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	8/8/2025 3:19:01 PM				
SubDirectory	VW080725	HP Acquire Method	MSVOA_W		HP Processing Method	82w072225s.m	

STD. NAME	STD REF.#
Tune/Reschk	VP135033
Initial Calibration Stds	
CCC	VP135034,VP135035
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032035.D	07 Aug 2025 08:05	SY/MD	Ok
2	VSTDCCC050	VW032036.D	07 Aug 2025 10:08	SY/MD	Ok,M
3	VW0807SBL01	VW032037.D	07 Aug 2025 11:10	SY/MD	Ok
4	VW0807SBS01	VW032038.D	07 Aug 2025 12:20	SY/MD	Ok,M
5	VW0807SBSD01	VW032039.D	07 Aug 2025 12:43	SY/MD	Ok,M
6	Q2784-01	VW032040.D	07 Aug 2025 13:20	SY/MD	Ok
7	Q2793-02	VW032041.D	07 Aug 2025 13:42	SY/MD	ReRun
8	Q2795-01	VW032042.D	07 Aug 2025 14:04	SY/MD	Ok
9	Q2795-02	VW032043.D	07 Aug 2025 14:26	SY/MD	Ok
10	Q2795-03	VW032044.D	07 Aug 2025 14:48	SY/MD	Ok
11	Q2793-02RE	VW032045.D	07 Aug 2025 15:10	SY/MD	Confirms
12	Q2798-03	VW032046.D	07 Aug 2025 15:31	SY/MD	Ok
13	Q2800-01	VW032047.D	07 Aug 2025 15:53	SY/MD	Ok
14	Q2801-01	VW032048.D	07 Aug 2025 16:15	SY/MD	Ok
15	VIBLK	VW032049.D	07 Aug 2025 16:37	SY/MD	Ok
16	VSTDCCC050	VW032050.D	07 Aug 2025 16:58	SY/MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW072225

Review By	Semsettin Yesilyurt	Review On	7/24/2025 3:08:17 PM		
Supervise By	Mahesh Dadoda	Supervise On	7/24/2025 3:08:52 PM		
SubDirectory	VW072225	HP Acquire Method	MSVOA_W	HP Processing Method	82w072225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134865
Initial Calibration Stds	VP134866,VP134868,VP134869,VP134870,VP134873,VP134874
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134875
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW031890.D	22 Jul 2025 08:14		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VW031891.D	22 Jul 2025 09:05	Comp. #20 is on Linear Regression	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VW031892.D	22 Jul 2025 09:37	Comp. #13 is on Quadratic Regression	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VW031893.D	22 Jul 2025 10:17		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VW031894.D	22 Jul 2025 10:39		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VW031895.D	22 Jul 2025 11:18		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VW031896.D	22 Jul 2025 12:00		SY/MD	Ok,M
8	VIBLK	VIBLK	VW031897.D	22 Jul 2025 12:21		SY/MD	Ok
9	VSTDICV050	ICVVW072225	VW031898.D	22 Jul 2025 14:47		SY/MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW080725

Review By	Mahesh Dadoda	Review On	8/8/2025 3:06:45 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/8/2025 3:19:01 PM		
SubDirectory	VW080725	HP Acquire Method	MSVOA_W	HP Processing Method	82w072225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135033
Initial Calibration Stds	
CCC	VP135034,VP135035
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032035.D	07 Aug 2025 08:05		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VW032036.D	07 Aug 2025 10:08		SY/MD	Ok,M
3	VW0807SBL01	VW0807SBL01	VW032037.D	07 Aug 2025 11:10		SY/MD	Ok
4	VW0807SBS01	VW0807SBS01	VW032038.D	07 Aug 2025 12:20		SY/MD	Ok,M
5	VW0807SBSD01	VW0807SBSD01	VW032039.D	07 Aug 2025 12:43		SY/MD	Ok,M
6	Q2784-01	EO-01-080625	VW032040.D	07 Aug 2025 13:20	vial-B	SY/MD	Ok
7	Q2793-02	VNJ-231	VW032041.D	07 Aug 2025 13:42	vial-A Internal Standard fail	SY/MD	ReRun
8	Q2795-01	COMP-1	VW032042.D	07 Aug 2025 14:04	vial-A	SY/MD	Ok
9	Q2795-02	COMP-2	VW032043.D	07 Aug 2025 14:26	vial-A	SY/MD	Ok
10	Q2795-03	COMP-3	VW032044.D	07 Aug 2025 14:48	vial-A	SY/MD	Ok
11	Q2793-02RE	VNJ-231RE	VW032045.D	07 Aug 2025 15:10	vial-B Internal Standard fail	SY/MD	Confirms
12	Q2798-03	TP-6-VOC	VW032046.D	07 Aug 2025 15:31	vial-A	SY/MD	Ok
13	Q2800-01	VNJ-222	VW032047.D	07 Aug 2025 15:53	vial-A	SY/MD	Ok
14	Q2801-01	TR-04-080725	VW032048.D	07 Aug 2025 16:15	vial-A	SY/MD	Ok
15	VIBLK	VIBLK	VW032049.D	07 Aug 2025 16:37		SY/MD	Ok
16	VSTDCCC050	VSTDCCC050EC	VW032050.D	07 Aug 2025 16:58		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/8/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 08/07/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:17
Out Date: 08/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136742

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2793-01	VNJ-231	1	1.15	10.43	11.58	10.82	92.7	
Q2793-02	VNJ-231	2	1.19	10.40	11.59	11.12	95.5	
Q2795-01	COMP-1	3	1.15	10.60	11.75	9.9	82.5	
Q2795-02	COMP-2	4	1.19	10.17	11.36	9.41	80.8	
Q2795-03	COMP-3	5	1.13	10.86	11.99	10.03	82.0	
Q2798-01	TP-6	6	1.18	10.17	11.35	10.25	89.2	
Q2798-02	TP-6-EPH	7	1.18	10.51	11.69	10.04	84.3	
Q2798-03	TP-6-VOC	8	1.18	10.21	11.39	10.06	87.0	
Q2800-01	VNJ-222	12	1.16	10.57	11.73	10.99	93.0	
Q2801-01	TR-04-080725	13	1.17	10.36	11.53	11.05	95.4	
Q2801-02	TR-04-080725-E2	14	1.14	10.41	11.55	10.71	91.9	
Q2802-01	S-1A	9	1.15	10.84	11.99	10.96	90.5	
Q2802-02	S-1B	10	1.16	10.20	11.36	9.04	77.3	
Q2802-03	S-2	11	1.15	10.84	11.99	10.4	85.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

WB 136742

WorkList Name : %1-080725 **WorkList ID :** 191140 **Department :** Wet-Chemistry **Date :** 08-07-2025 07:55:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2793-01	VNJ-231	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/07/2025	Chemtech -SO
Q2793-02	VNJ-231	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/07/2025	Chemtech -SO
Q2795-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	POWE02	D31	08/06/2025	Chemtech -SO
Q2795-02	COMP-2	Solid	Percent Solids	Cool 4 deg C	POWE02	D31	08/06/2025	Chemtech -SO
Q2795-03	COMP-3	Solid	Percent Solids	Cool 4 deg C	POWE02	D31	08/06/2025	Chemtech -SO
Q2798-01	TP-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/07/2025	Chemtech -SO
Q2798-02	TP-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/07/2025	Chemtech -SO
Q2798-03	TP-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/07/2025	Chemtech -SO
Q2800-01	VNJ-222	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/07/2025	Chemtech -SO
Q2801-01	TR-04-080725	Solid	Percent Solids	Cool 4 deg C	PSEG05	D21	08/07/2025	Chemtech -SO
Q2801-02	TR-04-080725-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D21	08/07/2025	Chemtech -SO
Q2802-01	S-1A	Solid	Percent Solids	Cool 4 deg C	EARTH03	J13	08/07/2025	Chemtech -SO
Q2802-02	S-1B	Solid	Percent Solids	Cool 4 deg C	EARTH03	J13	08/07/2025	Chemtech -SO
Q2802-03	S-2	Solid	Percent Solids	Cool 4 deg C	EARTH03	J13	08/07/2025	Chemtech -SO

08/07/25

Date/Time 08/07/25 15:30

Raw Sample Received by:

Raw Sample Relinquished by: SR

Date/Time 08/07/25 15:30

Raw Sample Received by: SR

Raw Sample Relinquished by:

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2795
COC Number 2045308

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Kleinfelder
ADDRESS: 180 Sheree Blvd. Suite 3800
CITY Exton STATE: PA ZIP: 19341
ATTENTION: Mark Warchol
PHONE: 484-883-3892 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Girard School
PROJECT NO.: 20001558.001A LOCATION: Philadelphia
PROJECT MANAGER: Mark Warchol
e-mail: mwarchol@kleinfelder.com
PHONE: 484-883-3892 FAX:

CLIENT BILLING INFORMATION

BILL TO: Same PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): 5 DAYS*
EDD: 5 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☑ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other

ANALYSIS

PADEP Historic Clean Fill Parameters Hold

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	COMP-1	Soil	✓		8/6/25	10:20	4	✓									
2.	COMP-2		↓			11:25	↓	↓									
3.	COMP-3		↓			12:20	↓	↓									
4.	SB-1			✓		9:40	1		✓								
5.	SB-2			↓		9:50	1		↓								
6.	SB-3			↓		10:00	1										
7.	SB-4			↓		10:15	1										
8.	SB-5			↓		10:35	1										
9.	SB-6			↓		10:50	1		✓								
10.	SB-7	↓		↓	↓	11:00	↓		↓								

E E

Specify Preservatives: A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	8/6/25	1.
2.	8/7/25 1128	2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8°C
Comments: Hold grab samples SB-1 thru SB-12
IR Gun #1

Page 1 of 2

CLIENT: ☐ Hand Delivered ☑ Other FedEx

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP

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www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2795
COC Number 2045309

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Kleinfelder
ADDRESS: 180 Sheree Blvd. Suite 3800
CITY Exton STATE: PA ZIP: 19341
ATTENTION: Mark Warchol
PHONE: 484-883-3892 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Girard School
PROJECT NO.: 20160558.001A LOCATION: Philadelphia
PROJECT MANAGER: Mark Warchol
e-mail: mwarchol@kleinfelder.com
PHONE: 484-883-3892 FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): 5 DAYS*
EDD: 5 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☑ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

JC
Hold

PRESERVATIVES: 1 | 2 (E) | 3 | 4 | 5 | 6 | 7 | 8 | 9

COMMENTS — ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	SB-8	Soil		✓	8/6/25	11:20	1		✓								
2.	SB-9					11:50											
3.	SB-10					12:00											
4.	SB-11					12:10											
5.	SB-12					12:15											
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	8/6/25	1.
2.	8/7/25 1128	2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments: Thanks!

Page 2 of 2

CLIENT: ☐ Hand Delivered ☑ Other FedEx

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148

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

LOGIN REPORT/SAMPLE TRANSFER

YG 08/12/2025

Order ID : Q2795 POWE02
Client Name : Kleinfelder
Client Contact : Mark Warchol
Invoice Name : Kleinfelder
Invoice Contact : Mark Warchol

Order Date : 8/7/2025 11:57:00 AM
Project Name : ~~Girad School~~ Girard School-PA
Receive DateTime : 8/7/2025 11:28:00 AM
Purchase Order :

Project Mgr :
Report Type : Results+QC
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2795-01	COMP-1	Solid	08/06/2025	10:20					
					VOCMS Group1		8260D		5 Bus. Days
Q2795-02	COMP-2	Solid	08/06/2025	11:25					
					VOCMS Group1		8260D		5 Bus. Days
Q2795-03	COMP-3	Solid	08/06/2025	12:20					
					VOCMS Group1		8260D		5 Bus. Days

Relinguished By :
Date / Time : 8/7/25 1240

Received By : Sam
Date / Time : 8/7/25 12:40

Storage Area : VOA Refridgerator Room

NH 6
F 22