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Cover Page

Order ID : P4722

Project ID : NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2

Client : Walsh Construction Company II, LLC

Lab Sample Number	Client Sample Number
P4722-01	WC-1(5.5)
P4722-02	WC-1(3.5)
P4722-03	WC-1(0-6)
P4722-04	WC-1(0-6)
P4722-05	WC-1(0-6)
P4722-06	WC-2(2)
P4722-07	WC-2(4)
P4722-08	WC-2(0-6)
P4722-09	WC-2(0-6)
P4722-10	WC-2(0-6)
P4722-11	WC-3(5)
P4722-12	WC-3(3)
P4722-13	WC-3(0-6)
P4722-14	WC-3(0-6)
P4722-15	WC-3(0-6)
P4722-16	WC-1(5.5)
P4722-17	WC-1(3.5)
P4722-18	WC-2(2)
P4722-19	WC-2(4)
P4722-20	WC-3(5)
P4722-21	WC-3(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: 11/18/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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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 #: **P4722**

	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: **PATEL VAISHALI** **Date:** **11/18/2024**

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LAB CHRONICLE

OrderID:	P4722	**OrderDate:**	11/5/2024 3:33:08 PM
Client:	Walsh Construction Company II, LLC	**Project:**	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
Contact:	Kayla Timony	**Location:**	L23,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4722-02	**WC-1(3.5)**	**TCLP**			**11/05/24**			**11/05/24**
			TCLP VOA	8260D			11/08/24	
P4722-07	**WC-2(4)**	**TCLP**			**11/05/24**			**11/05/24**
			TCLP VOA	8260D			11/11/24	
P4722-12	**WC-3(3)**	**TCLP**			**11/05/24**			**11/05/24**
			TCLP VOA	8260D			11/11/24	
P4722-16	**WC-1(5.5)**	**TCLP**			**11/05/24**			**11/05/24**
			TCLP VOA	8260D			11/11/24	
P4722-18	**WC-2(2)**	**TCLP**			**11/05/24**			**11/05/24**
			TCLP VOA	8260D			11/11/24	
P4722-20	**WC-3(5)**	**TCLP**			**11/05/24**			**11/05/24**
			TCLP VOA	8260D			11/11/24	

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Hit Summary Sheet
SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**WC-1(3.5)**							
P4722-02	WC-1(3.5)	TCLP	2-Butanone	7.40	J	1.30	25.0	ug/L
			Total Voc :	7.40				
			Total Concentration:	7.40				
Client ID:	**WC-2(4)**							
P4722-07	WC-2(4)	TCLP	2-Butanone	8.30	J	1.30	25.0	ug/L
			Total Voc :	8.30				
			Total Concentration:	8.30				
Client ID:	**WC-3(3)**							
P4722-12	WC-3(3)	TCLP	2-Butanone	8.00	J	1.30	25.0	ug/L
			Total Voc :	8.00				
			Total Concentration:	8.00				
Client ID:	**WC-1(5.5)**							
P4722-16	WC-1(5.5)	TCLP	2-Butanone	9.00	J	1.30	25.0	ug/L
			Total Voc :	9.00				
			Total Concentration:	9.00				
Client ID:	**WC-2(2)**							
P4722-18	WC-2(2)	TCLP	2-Butanone	7.40	J	1.30	25.0	ug/L
			Total Voc :	7.40				
			Total Concentration:	7.40				
Client ID:	**WC-3(5)**							
P4722-20	WC-3(5)	TCLP	2-Butanone	11.1	J	1.30	25.0	ug/L
			Total Voc :	11.1				
			Total Concentration:	11.1				

QC SUMMARY

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Surrogate Summary

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4722-02	WC-1(3.5)	1,2-Dichloroethane-d4	50	49.8	99	74	125
		Dibromofluoromethane	50	49.1	98	75	124
		Toluene-d8	50	48.5	97	86	113
		4-Bromofluorobenzene	50	50.3	101	77	121
P4722-07	WC-2(4)	1,2-Dichloroethane-d4	50	47.9	96	74	125
		Dibromofluoromethane	50	48.3	97	75	124
		Toluene-d8	50	48.0	96	86	113
		4-Bromofluorobenzene	50	50.1	100	77	121
P4722-12	WC-3(3)	1,2-Dichloroethane-d4	50	47.9	96	74	125
		Dibromofluoromethane	50	49.0	98	75	124
		Toluene-d8	50	47.7	95	86	113
		4-Bromofluorobenzene	50	48.4	97	77	121
P4722-16	WC-1(5.5)	1,2-Dichloroethane-d4	50	49.4	99	74	125
		Dibromofluoromethane	50	48.6	97	75	124
		Toluene-d8	50	48.4	97	86	113
		4-Bromofluorobenzene	50	48.7	97	77	121
P4722-18	WC-2(2)	1,2-Dichloroethane-d4	50	48.7	97	74	125
		Dibromofluoromethane	50	49.4	99	75	124
		Toluene-d8	50	48.5	97	86	113
		4-Bromofluorobenzene	50	49.0	98	77	121
P4722-20	WC-3(5)	1,2-Dichloroethane-d4	50	49.3	99	74	125
		Dibromofluoromethane	50	48.2	96	75	124
		Toluene-d8	50	48.0	96	86	113
		4-Bromofluorobenzene	50	48.3	97	77	121

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Surrogate Summary

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VN1108WBL01	VN1108WBL01	1,2-Dichloroethane-d4	50	48.7	97	74	125
		Dibromofluoromethane	50	48.9	98	75	124
		Toluene-d8	50	45.6	91	86	113
		4-Bromofluorobenzene	50	45.9	92	77	121
VN1108WBS01	VN1108WBS01	1,2-Dichloroethane-d4	50	46.2	92	74	125
		Dibromofluoromethane	50	47.6	95	75	124
		Toluene-d8	50	47.1	94	86	113
		4-Bromofluorobenzene	50	50.6	101	77	121
VN1108WBSD0	VN1108WBSD01	1,2-Dichloroethane-d4	50	47.7	95	74	125
		Dibromofluoromethane	50	47.1	94	75	124
		Toluene-d8	50	47.3	95	86	113
		4-Bromofluorobenzene	50	46.8	94	77	121
VN1111WBL01	VN1111WBL01	1,2-Dichloroethane-d4	50	48.0	96	74	125
		Dibromofluoromethane	50	49.1	98	75	124
		Toluene-d8	50	45.9	92	86	113
		4-Bromofluorobenzene	50	48.1	96	77	121
VN1111WBS01	VN1111WBS01	1,2-Dichloroethane-d4	50	41.8	84	74	125
		Dibromofluoromethane	50	46.0	92	75	124
		Toluene-d8	50	44.8	90	86	113
		4-Bromofluorobenzene	50	46.7	93	77	121

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Analytical Method: SW8260-Low **Datafile :** VN084740.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1108WBS01	Vinyl chloride	20	16.2	ug/L	81			65	117	
	1,1-Dichloroethene	20	16.7	ug/L	84			74	110	
	2-Butanone	100	100	ug/L	100			65	122	
	Carbon Tetrachloride	20	19.0	ug/L	95			77	113	
	Chloroform	20	18.8	ug/L	94			79	113	
	Benzene	20	17.7	ug/L	89			82	109	
	1,2-Dichloroethane	20	19.1	ug/L	96			80	115	
	Trichloroethene	20	18.3	ug/L	92			77	113	
	Tetrachloroethene	20	18.3	ug/L	92			67	123	
	Chlorobenzene	20	17.6	ug/L	88			82	109	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Analytical Method: SW8260-Low **Datafile :** VN084741.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1108WBSD01	Vinyl chloride	20	17.6	ug/L	88	8		65	117	20
	1,1-Dichloroethene	20	17.9	ug/L	90	7		74	110	20
	2-Butanone	100	110	ug/L	110	10		65	122	20
	Carbon Tetrachloride	20	19.1	ug/L	96	1		77	113	20
	Chloroform	20	19.2	ug/L	96	2		79	113	20
	Benzene	20	18.6	ug/L	93	4		82	109	20
	1,2-Dichloroethane	20	19.4	ug/L	97	1		80	115	20
	Trichloroethene	20	18.7	ug/L	94	2		77	113	20
	Tetrachloroethene	20	19.2	ug/L	96	4		67	123	20
	Chlorobenzene	20	18.3	ug/L	92	4		82	109	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Analytical Method: SW8260-Low **Datafile :** VN084766.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1111WBS01	Vinyl chloride	20	15.4	ug/L	77			65	117	
	1,1-Dichloroethene	20	16.1	ug/L	81			74	110	
	2-Butanone	100	86.1	ug/L	86			65	122	
	Carbon Tetrachloride	20	19.0	ug/L	95			77	113	
	Chloroform	20	17.7	ug/L	89			79	113	
	Benzene	20	17.5	ug/L	88			82	109	
	1,2-Dichloroethane	20	18.3	ug/L	92			80	115	
	Trichloroethene	20	17.6	ug/L	88			77	113	
	Tetrachloroethene	20	18.4	ug/L	92			67	123	
	Chlorobenzene	20	17.8	ug/L	89			82	109	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1108WBL01

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084739.D Lab Sample ID: VN1108WBL01

Date Analyzed: 11/08/2024 Time Analyzed: 10:44

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1108WBS01	VN1108WBS01	VN084740.D	11/08/2024
VN1108WBSD01	VN1108WBSD01	VN084741.D	11/08/2024
WC-1(3.5)	P4722-02	VN084754.D	11/08/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1111WBL01

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084765.D Lab Sample ID: VN1111WBL01

Date Analyzed: 11/11/2024 Time Analyzed: 12:30

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1111WBS01	VN1111WBS01	VN084766.D	11/11/2024
WC-2(4)	P4722-07	VN084770.D	11/11/2024
WC-3(3)	P4722-12	VN084771.D	11/11/2024
WC-1(5.5)	P4722-16	VN084772.D	11/11/2024
WC-2(2)	P4722-18	VN084773.D	11/11/2024
WC-3(5)	P4722-20	VN084774.D	11/11/2024

COMMENTS:

Alliance TECHNICAL GROUP

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084569.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 10:42

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	70.1 (95.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN084570.D	10/30/2024	11:46
VSTDICCC050	VSTDICCC050	VN084571.D	10/30/2024	12:09
VSTDICC020	VSTDICC020	VN084572.D	10/30/2024	12:33
VSTDICC010	VSTDICC010	VN084573.D	10/30/2024	12:57
VSTDICC005	VSTDICC005	VN084574.D	10/30/2024	13:21
VSTDICC001	VSTDICC001	VN084575.D	10/30/2024	13:45

Raw Data: **VN084736.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084736.D BFB Injection Date: 11/08/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:18

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.2
75	30.0 - 60.0% of mass 95	51.1
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	0.8 (1) 1
174	50.0 - 100.0% of mass 95	78.5
175	5.0 - 9.0% of mass 174	6.6 (8.4) 1
176	95.0 - 101.0% of mass 174	77.7 (99) 1
177	5.0 - 9.0% of mass 176	4.8 (6.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN084737.D	11/08/2024	09:39
VN1108WBL01	VN1108WBL01	VN084739.D	11/08/2024	10:44
VN1108WBS01	VN1108WBS01	VN084740.D	11/08/2024	11:19
VN1108WBSD01	VN1108WBSD01	VN084741.D	11/08/2024	11:43
WC-1(3.5)	P4722-02	VN084754.D	11/08/2024	16:56

Raw Data: **VN084762.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084762.D BFB Injection Date: 11/11/2024

Instrument ID: MSVOA_N BFB Injection Time: 10:21

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.1
75	30.0 - 60.0% of mass 95	47.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	73.1
175	5.0 - 9.0% of mass 174	5.8 (8) 1
176	95.0 - 101.0% of mass 174	71.4 (97.6) 1
177	5.0 - 9.0% of mass 176	4.6 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN084763.D	11/11/2024	10:54
VN1111WBL01	VN1111WBL01	VN084765.D	11/11/2024	12:30
VN1111WBS01	VN1111WBS01	VN084766.D	11/11/2024	12:54
WC-2(4)	P4722-07	VN084770.D	11/11/2024	14:30
WC-3(3)	P4722-12	VN084771.D	11/11/2024	14:54
WC-1(5.5)	P4722-16	VN084772.D	11/11/2024	15:18
WC-2(2)	P4722-18	VN084773.D	11/11/2024	15:42
WC-3(5)	P4722-20	VN084774.D	11/11/2024	16:06

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084737.D Date Analyzed: 11/08/2024

Instrument ID: MSVOA_N Time Analyzed: 09:39

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	183021	8.22	298323	9.10	261810	11.87
UPPER LIMIT	366042	8.718	596646	9.6	523620	12.365
LOWER LIMIT	91510.5	7.718	149162	8.6	130905	11.365
EPA SAMPLE NO.						
WC-1(3.5)	173136	8.22	304734	9.10	285280	11.87
VN1108WBL01	170398	8.22	297081	9.10	255691	11.87
VN1108WBS01	174962	8.22	291201	9.10	262615	11.87
VN1108WBSD01	163813	8.22	277196	9.09	246235	11.87

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

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

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

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Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084737.D Date Analyzed: 11/08/2024

Instrument ID: MSVOA_N Time Analyzed: 09:39

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

	IS4 AREA #	RT #				
12 HOUR STD	135765	13.788				
UPPER LIMIT	271530	14.288				
LOWER LIMIT	67882.5	13.288				
EPA SAMPLE NO.						
WC-1(3.5)	132176	13.79				
VN1108WBL01	113797	13.79				
VN1108WBS01	135553	13.79				
VN1108WBSD01	120765	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084763.D Date Analyzed: 11/11/2024

Instrument ID: MSVOA_N Time Analyzed: 10:54

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	166446	8.22	270648	9.10	238712	11.87
UPPER LIMIT	332892	8.718	541296	9.6	477424	12.365
LOWER LIMIT	83223	7.718	135324	8.6	119356	11.365
EPA SAMPLE NO.						
WC-2(4)	158827	8.22	275321	9.10	255227	11.87
WC-3(3)	166359	8.22	285540	9.10	266633	11.87
WC-1(5.5)	166984	8.22	289915	9.10	269271	11.87
WC-2(2)	171996	8.22	301059	9.10	280468	11.87
WC-3(5)	169890	8.22	299832	9.10	275305	11.87
VN1111WBL01	167136	8.22	283115	9.10	253987	11.87
VN1111WBS01	167933	8.22	269161	9.10	238228	11.87

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084763.D Date Analyzed: 11/11/2024

Instrument ID: MSVOA_N Time Analyzed: 10:54

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

	IS4 AREA #	RT #				
12 HOUR STD	124434	13.788				
UPPER LIMIT	248868	14.288				
LOWER LIMIT	62217	13.288				
EPA SAMPLE NO.						
WC-2(4)	116241	13.79				
WC-3(3)	113376	13.79				
WC-1(5.5)	115191	13.79				
WC-2(2)	127677	13.79				
WC-3(5)	126299	13.79				
VN1111WBL01	115446	13.79				
VN1111WBS01	123082	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(3.5)	SDG No.:	P4722
Lab Sample ID:	P4722-02	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084754.D	1		11/08/24 16:56	VN110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	7.40	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	48.5		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	8.224			
540-36-3	1,4-Difluorobenzene	305000	9.1			
3114-55-4	Chlorobenzene-d5	285000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.788			

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

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

Sample Results: **VN084754.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084754.D
Acq On : 08 Nov 2024 16:56
Operator : JC\MD
Sample : P4722-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-1(3.5)

Quant Time: Nov 08 22:33:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

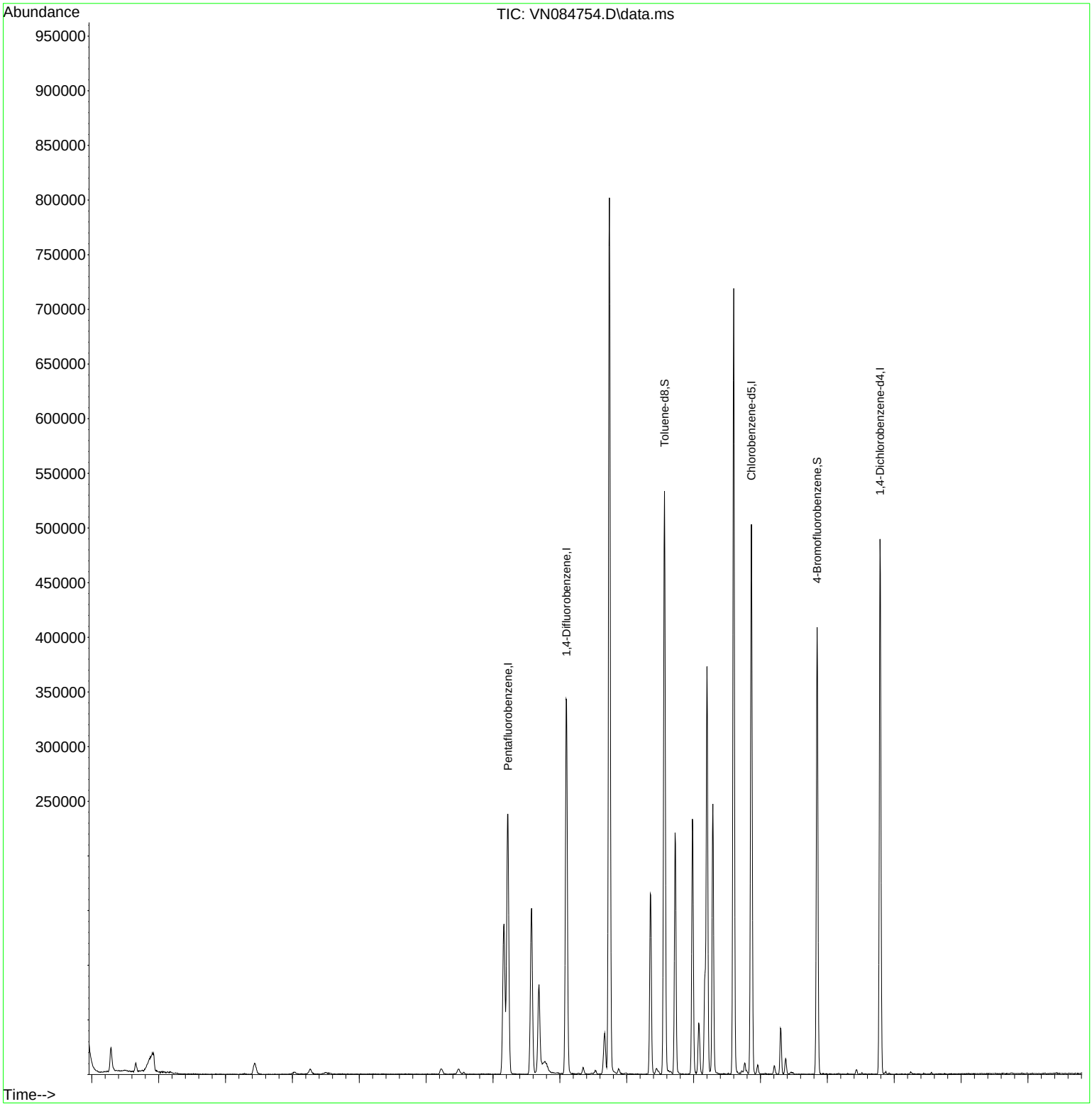
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	173136	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304734	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	285280	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132176	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	124399	49.746	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.500%		
35) Dibromofluoromethane	8.159	113	101220	49.072	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.140%		
50) Toluene-d8	10.565	98	368310	48.473	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.940%		
62) 4-Bromofluorobenzene	12.847	95	142767	50.275	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.560%		
Target Compounds						Qvalue
16) Acetone	4.436	43	14853	17.914	ug/l	96
20) Methylene Chloride	5.265	84	3582	1.629	ug/l	91
25) 2-Butanone	7.488	43	8576	7.351	ug/l	96
43) Isopropyl Acetate	8.688	43	94549	19.122	ug/l #	90

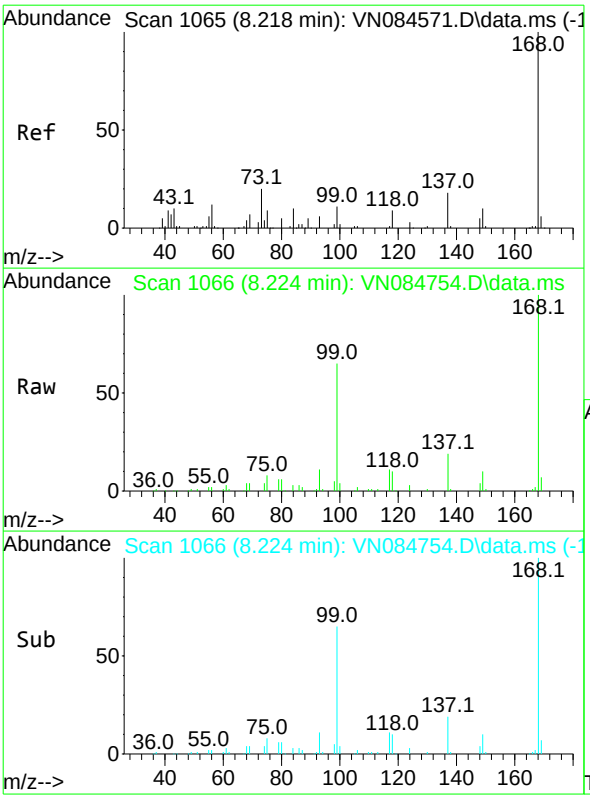
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084754.D
Acq On : 08 Nov 2024 16:56
Operator : JC\MD
Sample : P4722-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-1(3.5)

Quant Time: Nov 08 22:33:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



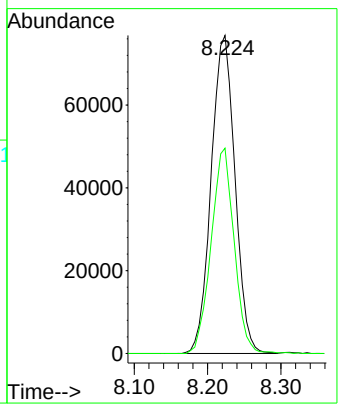


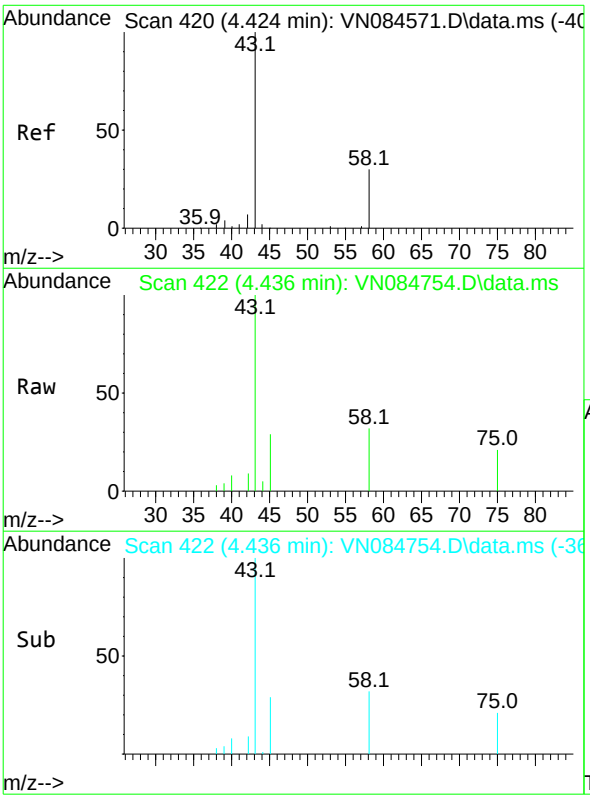
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084754.D
Acq: 08 Nov 2024 16:56

Instrument :
MSVOA_N
ClientSampleId :
WC-1(3.5)

Tgt Ion:168 Resp: 173136

Ion	Ratio	Lower	Upper
168	100		
99	64.6	54.2	81.2

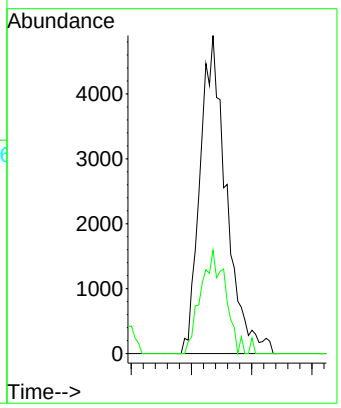


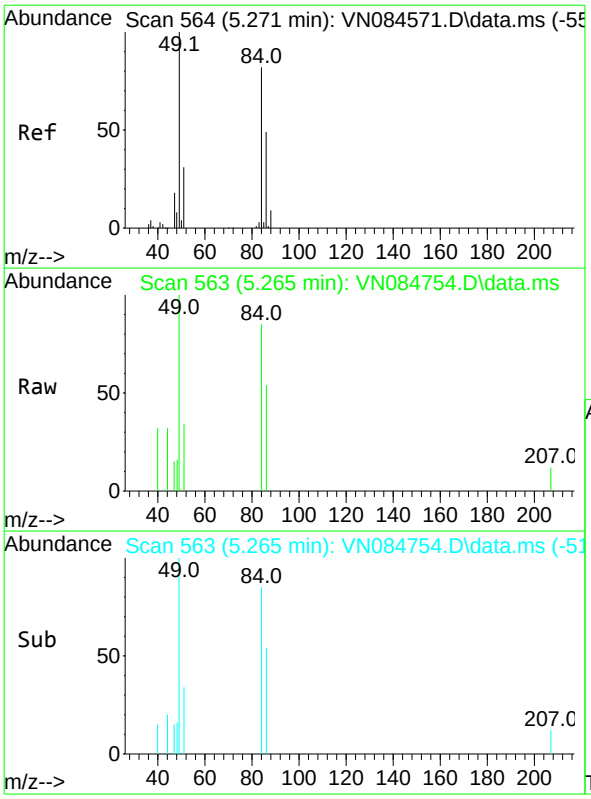


#16
Acetone
Concen: 17.914 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN084754.D
Acq: 08 Nov 2024 16:56

Tgt Ion: 43 Resp: 14853

Ion	Ratio	Lower	Upper
43	100		
58	32.5	24.4	36.6



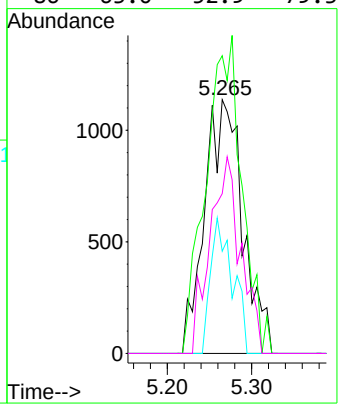


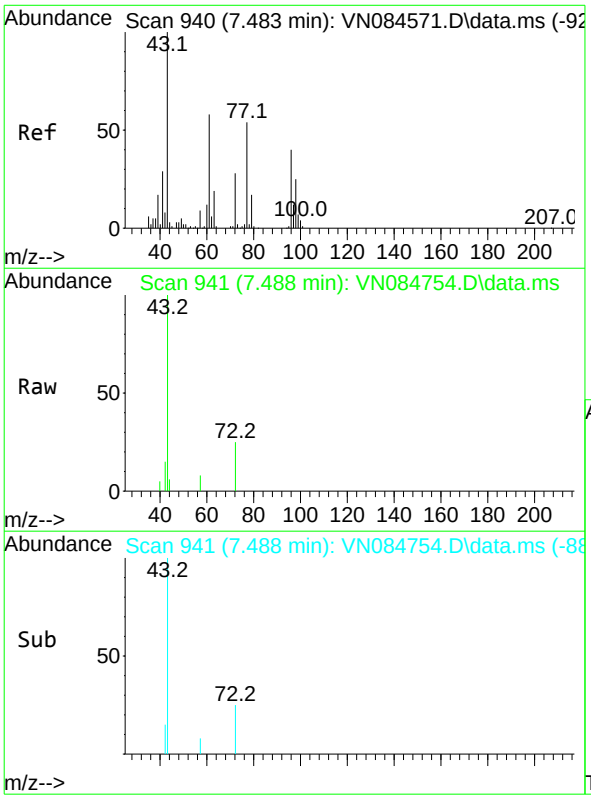
#20
Methylene Chloride
Concen: 1.629 ug/l
RT: 5.265 min Scan# 56
Delta R.T. -0.012 min
Lab File: VN084754.D
Acq: 08 Nov 2024 16:56

Instrument :
MSVOA_N
ClientSampleId :
WC-1(3.5)

Tgt Ion: 84 Resp: 3582

Ion	Ratio	Lower	Upper
84	100		
49	117.3	107.2	160.8
51	40.3	31.8	47.8
86	63.0	52.9	79.3

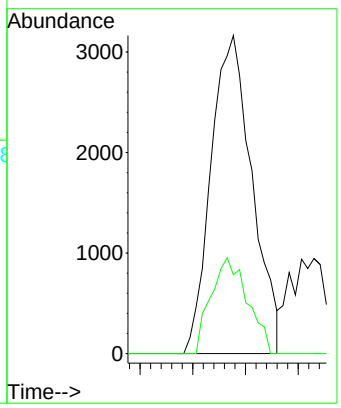


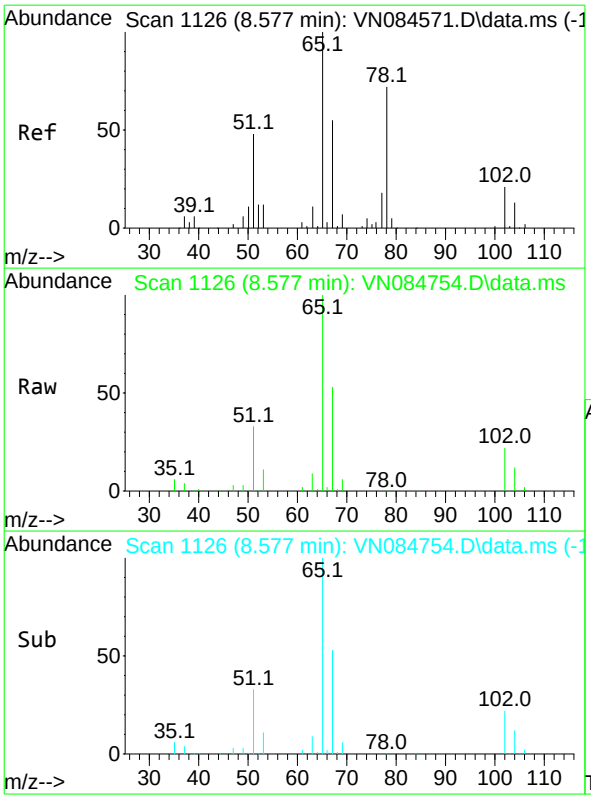


#25
2-Butanone
Concen: 7.351 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084754.D
Acq: 08 Nov 2024 16:56

Tgt Ion: 43 Resp: 8576

Ion	Ratio	Lower	Upper
43	100		
72	24.8	21.4	32.2



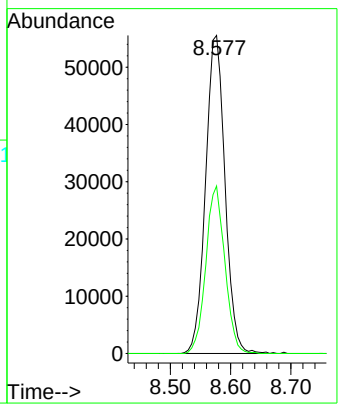


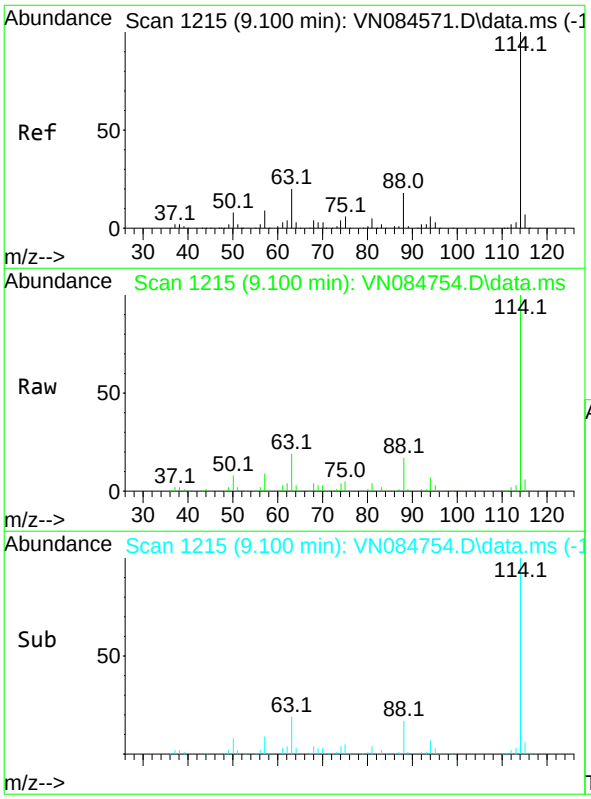
#33
1,2-Dichloroethane-d4
Concen: 49.746 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084754.D
Acq: 08 Nov 2024 16:56

Instrument :
MSVOA_N
ClientSampleId :
WC-1(3.5)

Tgt Ion: 65 Resp: 124399

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	102.0

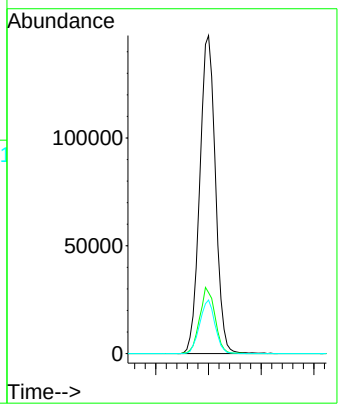


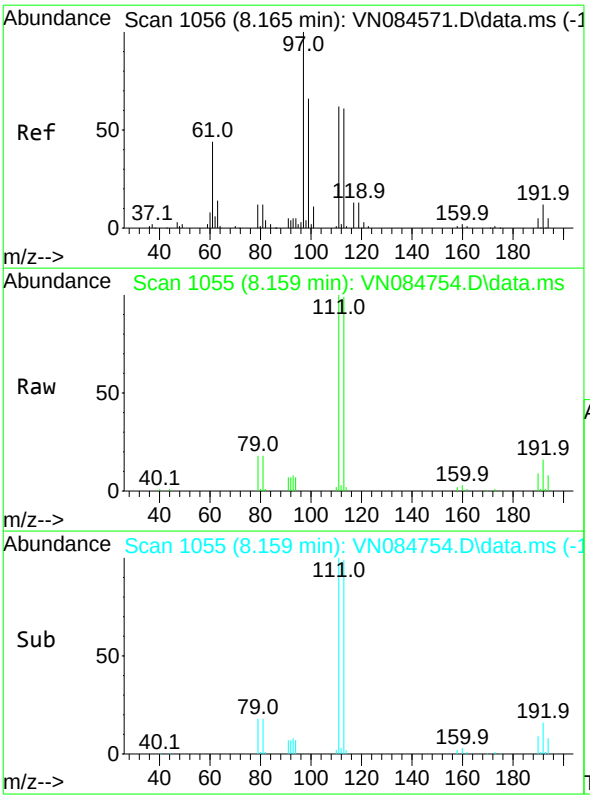


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084754.D
Acq: 08 Nov 2024 16:56

Tgt Ion:114 Resp: 304734

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	43.8
88	16.8	0.0	31.6



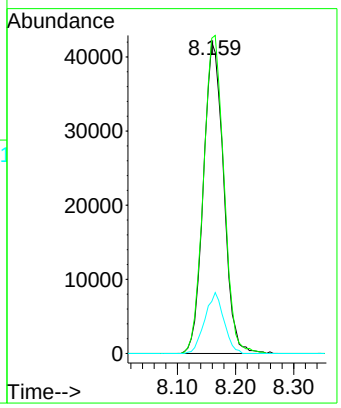


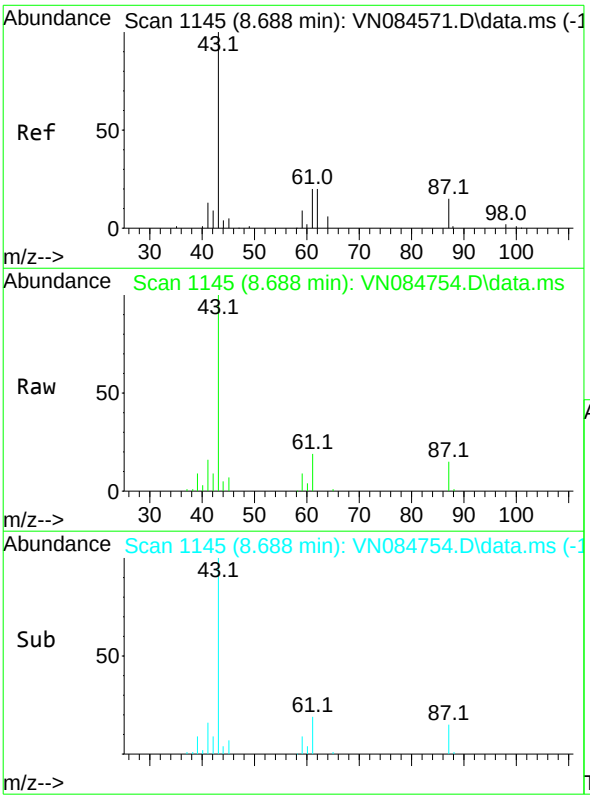
#35
Dibromofluoromethane
Concen: 49.072 ug/l
RT: 8.159 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084754.D
Acq: 08 Nov 2024 16:56

Instrument :
MSVOA_N
ClientSampleId :
WC-1(3.5)

Tgt Ion:113 Resp: 101220

Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.3	124.9
192	18.5	13.5	20.3

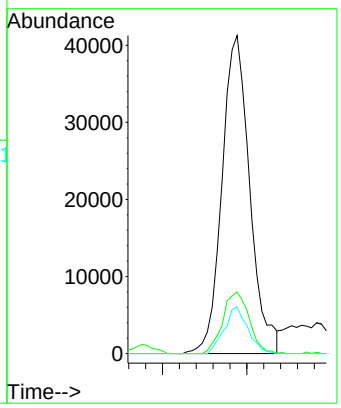




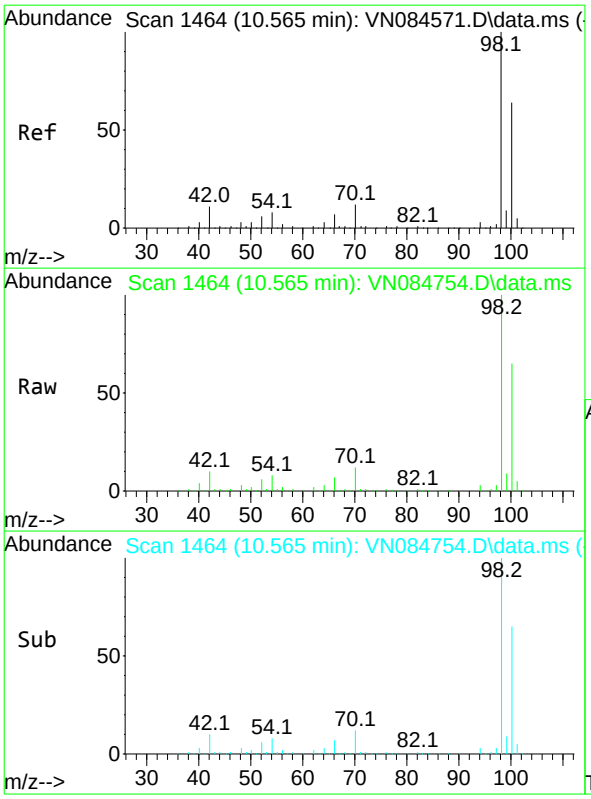
#43
Isopropyl Acetate
Concen: 19.122 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084754.D
Acq: 08 Nov 2024 16:56

Tgt Ion: 43 Resp: 94549

Ion	Ratio	Lower	Upper
43	100		
61	18.4	20.4	30.6#
87	12.4	10.3	15.5



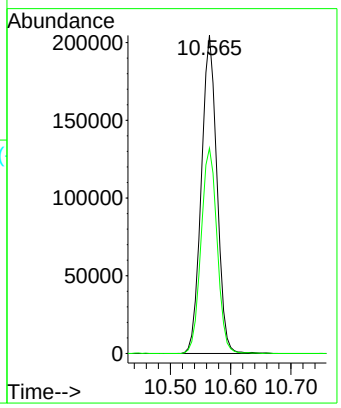
Instrument :
MSVOA_N
ClientSampleId :
WC-1(3.5)

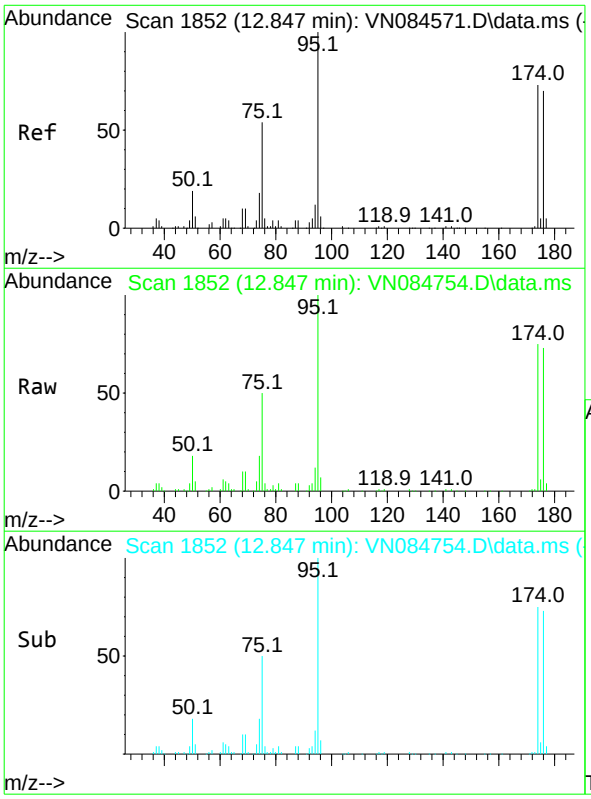


#50
Toluene-d8
Concen: 48.473 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084754.D
Acq: 08 Nov 2024 16:56

Tgt Ion: 98 Resp: 368310

Ion	Ratio	Lower	Upper
98	100		
100	66.3	52.7	79.1

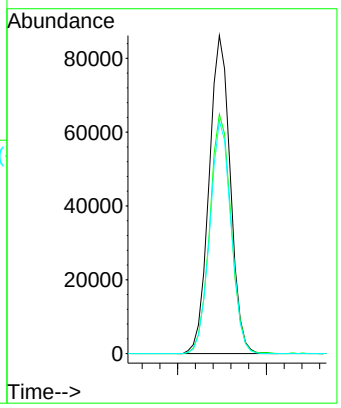


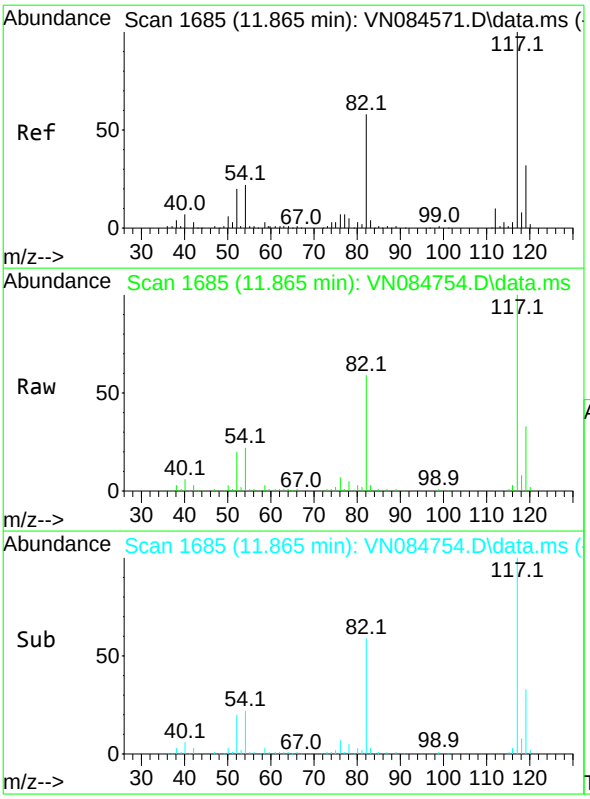


#62
4-Bromofluorobenzene
Concen: 50.275 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084754.D
Acq: 08 Nov 2024 16:56

Tgt Ion: 95 Resp: 142767

Ion	Ratio	Lower	Upper
95	100		
174	75.8	0.0	145.2
176	73.2	0.0	140.0



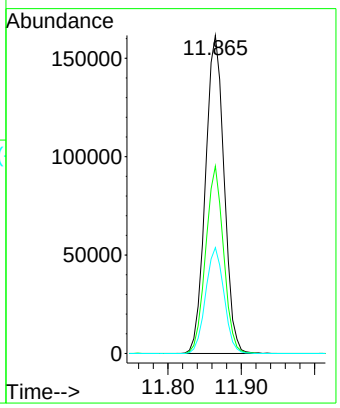


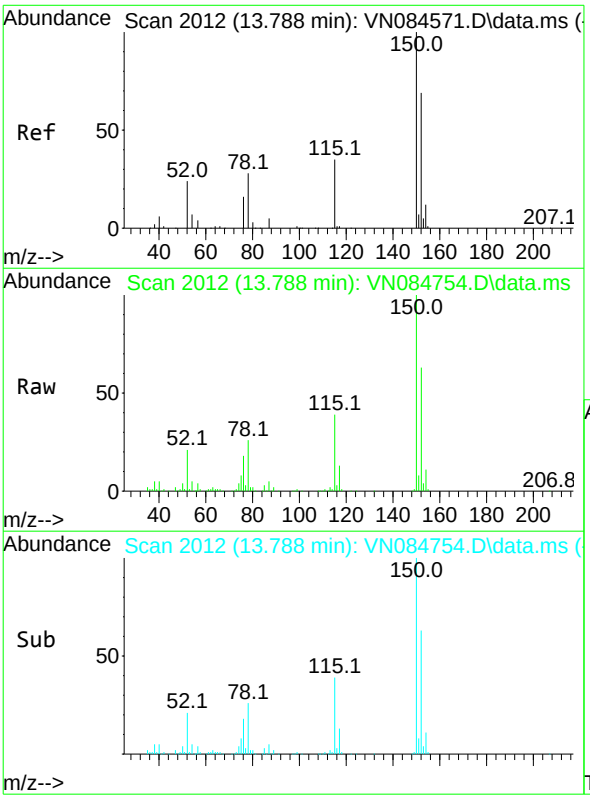
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084754.D
Acq: 08 Nov 2024 16:56

Instrument :
MSVOA_N
ClientSampleId :
WC-1(3.5)

Tgt Ion:117 Resp: 285280

Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.2	70.8
119	33.3	25.4	38.0

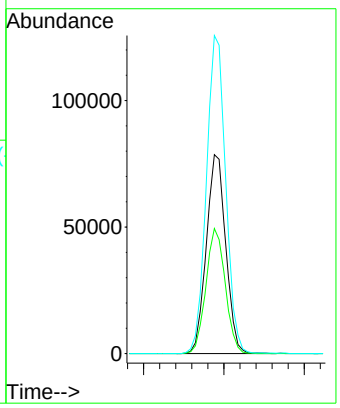




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084754.D
Acq: 08 Nov 2024 16:56

Tgt Ion:152 Resp: 132176

Ion	Ratio	Lower	Upper
152	100		
115	62.4	31.3	93.9
150	158.7	0.0	349.8



Raw Data: **VN084770.D**

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(4)	SDG No.:	P4722
Lab Sample ID:	P4722-07	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084770.D	1		11/11/24 14:30	VN111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	8.30	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.9		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	48.0		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	159000	8.218			
540-36-3	1,4-Difluorobenzene	275000	9.1			
3114-55-4	Chlorobenzene-d5	255000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	116000	13.788			

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

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

Quantitation Report (QT Reviewed)

Sample Results: **VN084770.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084770.D
Acq On : 11 Nov 2024 14:30
Operator : JC\MD
Sample : P4722-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-2(4)

Quant Time: Nov 12 00:31:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	158827	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	275321	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	255227	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	116241	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	109952	47.930	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.860%			
35) Dibromofluoromethane	8.159	113	90056	48.324	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.640%			
50) Toluene-d8	10.565	98	329823	48.045	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.100%			
62) 4-Bromofluorobenzene	12.847	95	128539	50.100	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.200%			
Target Compounds						Qvalue
16) Acetone	4.436	43	13986	18.464	ug/l	98
20) Methylene Chloride	5.265	84	3484	1.727	ug/l #	83
25) 2-Butanone	7.488	43	8873	8.291	ug/l	92
43) Isopropyl Acetate	8.688	43	94348	21.223	ug/l #	92

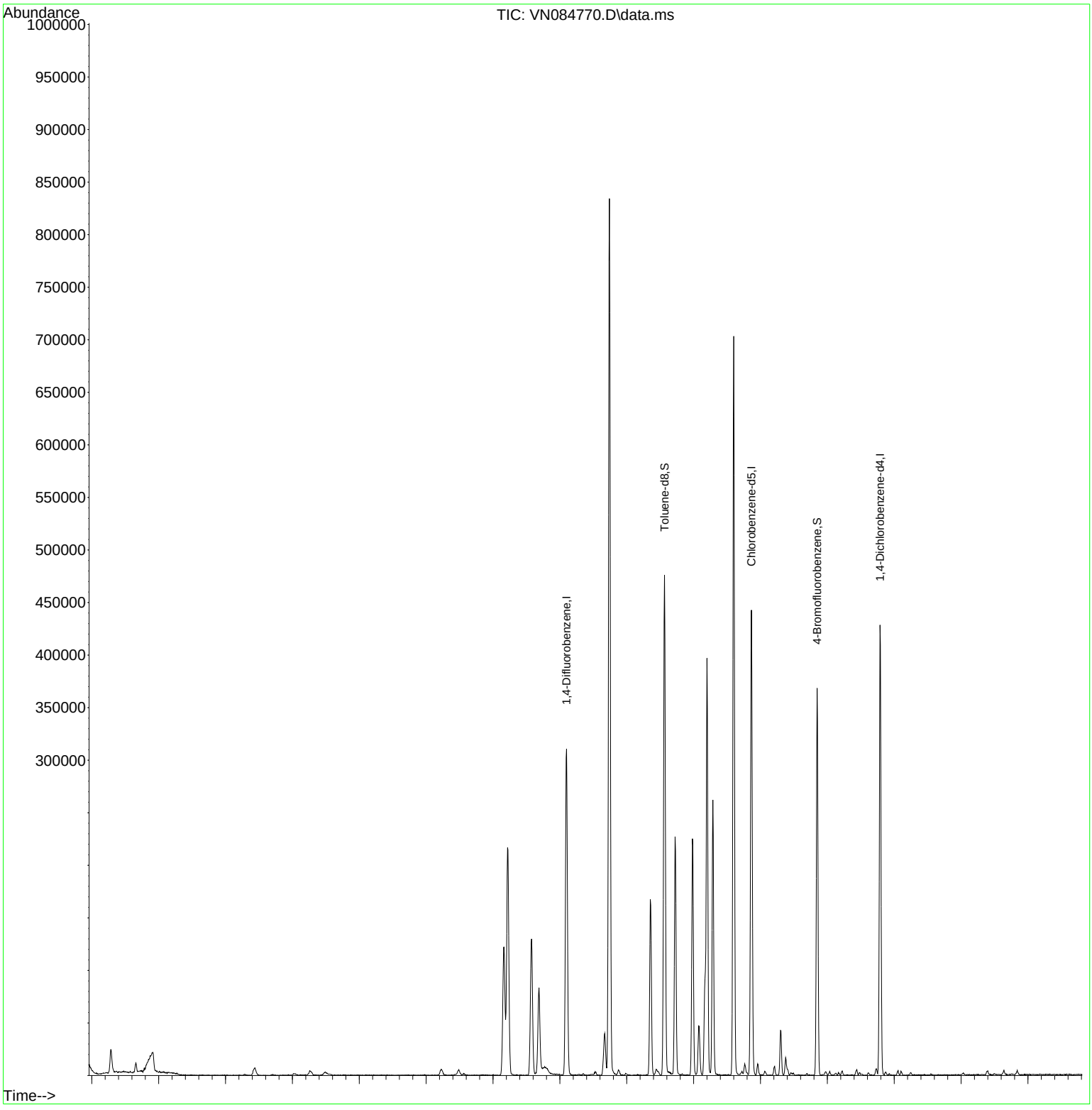
(#) = qualifier out of range (m) = manual integration (+) = signals summed

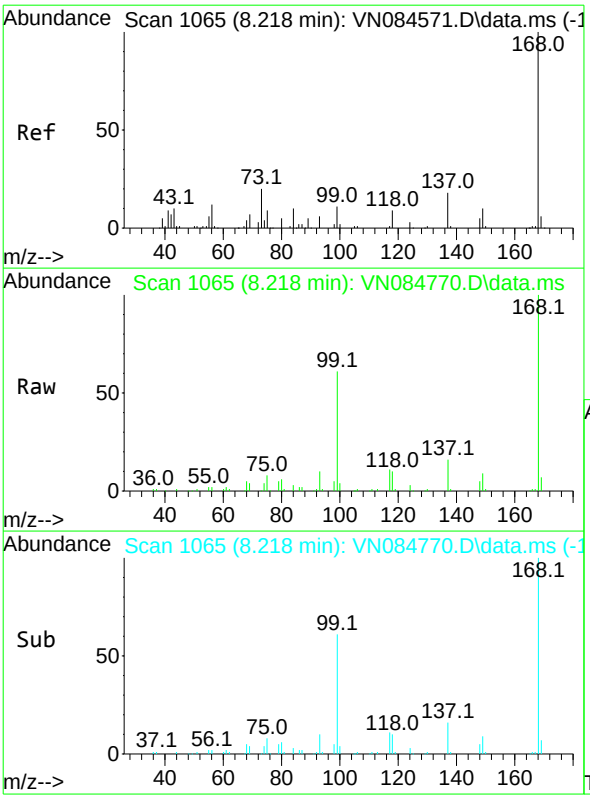
Sample Results: **VN084770.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084770.D
Acq On : 11 Nov 2024 14:30
Operator : JC\MD
Sample : P4722-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-2(4)

Quant Time: Nov 12 00:31:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



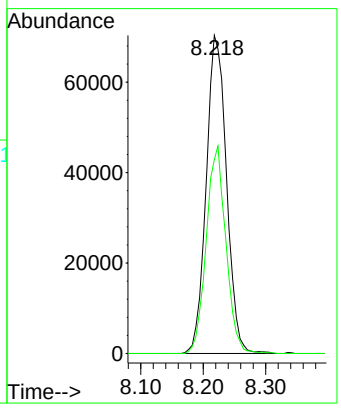


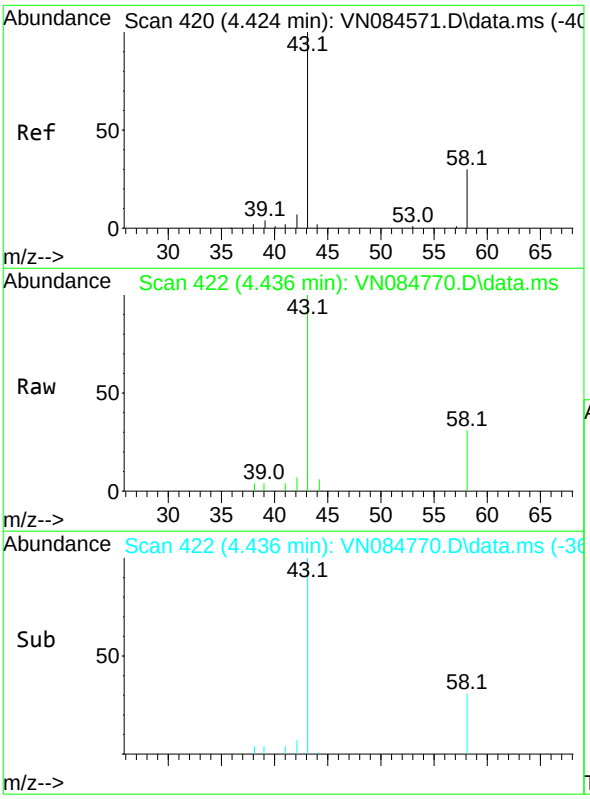
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084770.D
Acq: 11 Nov 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :
WC-2(4)

Tgt Ion:168 Resp: 158827

Ion	Ratio	Lower	Upper
168	100		
99	61.0	54.2	81.2

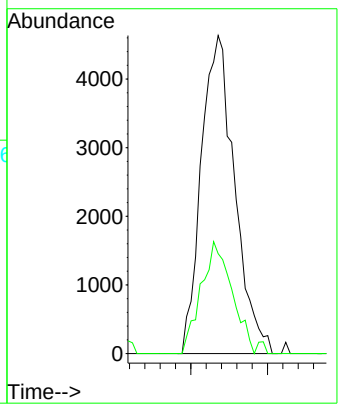


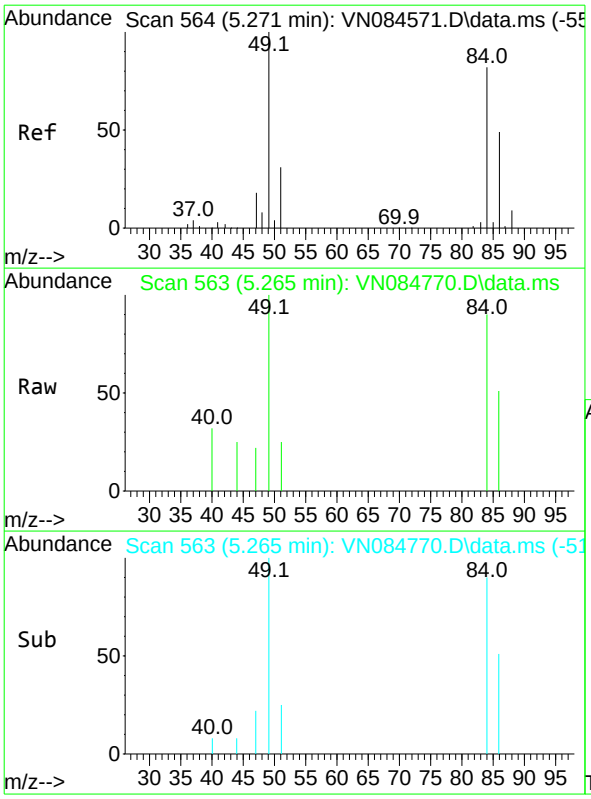


#16
Acetone
Concen: 18.464 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN084770.D
Acq: 11 Nov 2024 14:30

Tgt Ion: 43 Resp: 13986

Ion	Ratio	Lower	Upper
43	100		
58	31.4	24.4	36.6



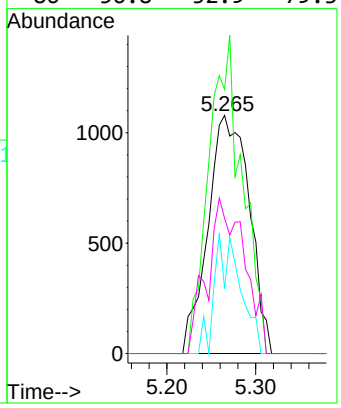


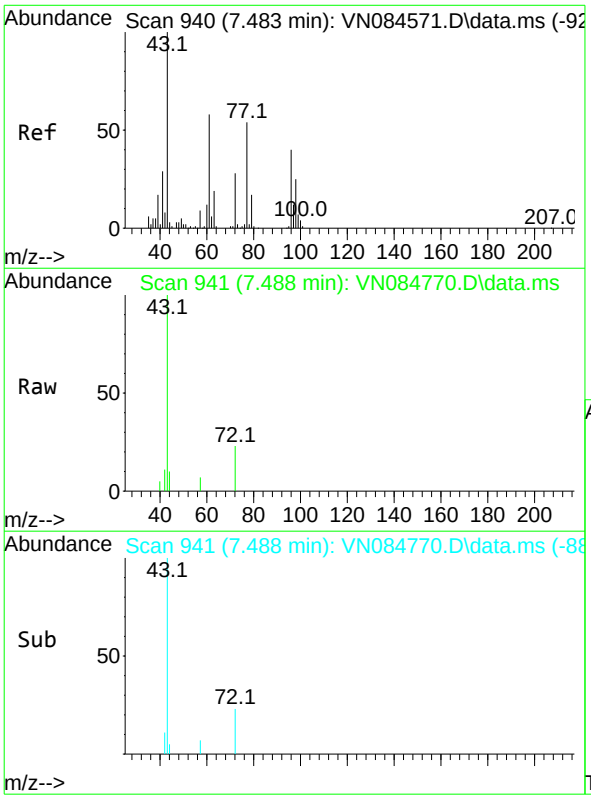
#20
Methylene Chloride
Concen: 1.727 ug/l
RT: 5.265 min Scan# 56
Delta R.T. -0.012 min
Lab File: VN084770.D
Acq: 11 Nov 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :
WC-2(4)

Tgt Ion: 84 Resp: 3484

Ion	Ratio	Lower	Upper
84	100		
49	110.8	107.2	160.8
51	27.2	31.8	47.8#
86	56.8	52.9	79.3

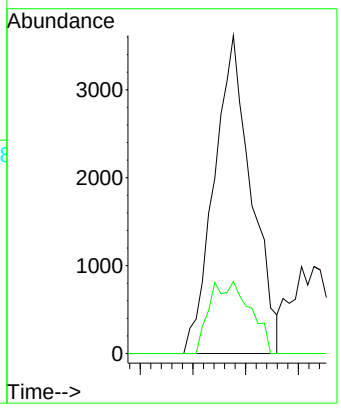


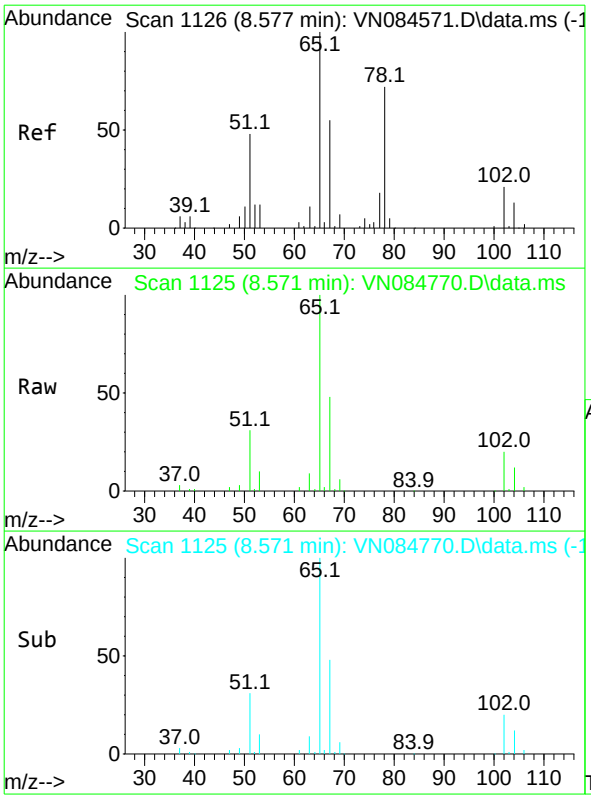


#25
2-Butanone
Concen: 8.291 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084770.D
Acq: 11 Nov 2024 14:30

Tgt Ion: 43 Resp: 8873

Ion	Ratio	Lower	Upper
43	100		
72	22.7	21.4	32.2



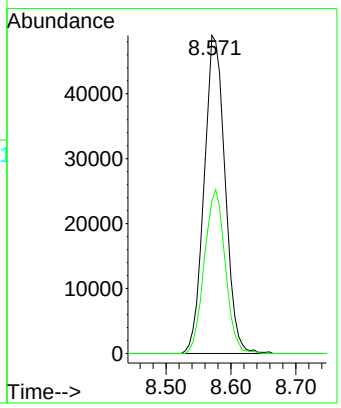


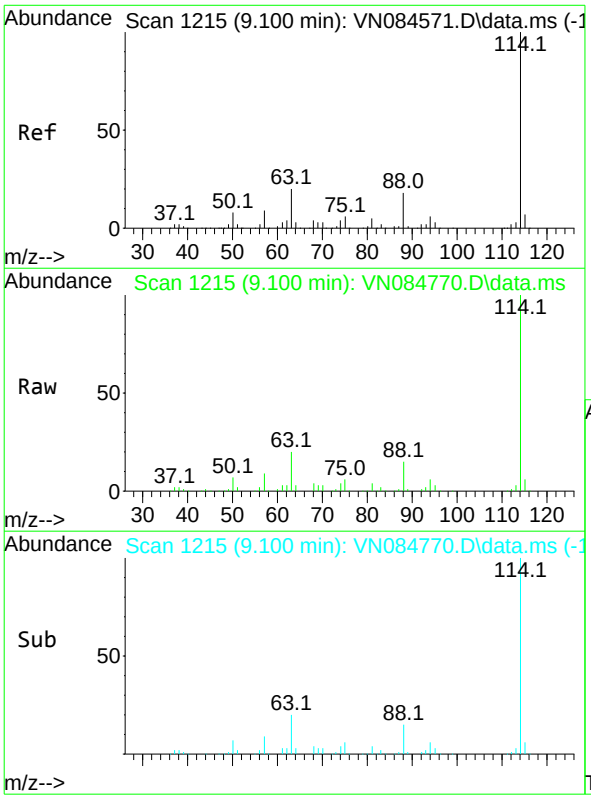
#33
1,2-Dichloroethane-d4
Concen: 47.930 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN084770.D
Acq: 11 Nov 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :
WC-2(4)

Tgt Ion: 65 Resp: 109952

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	102.0

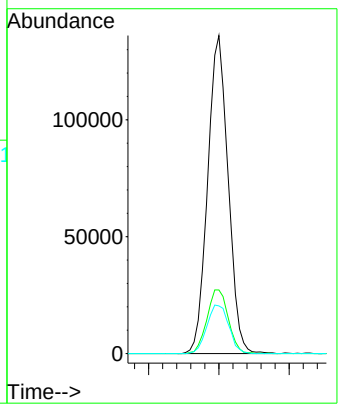


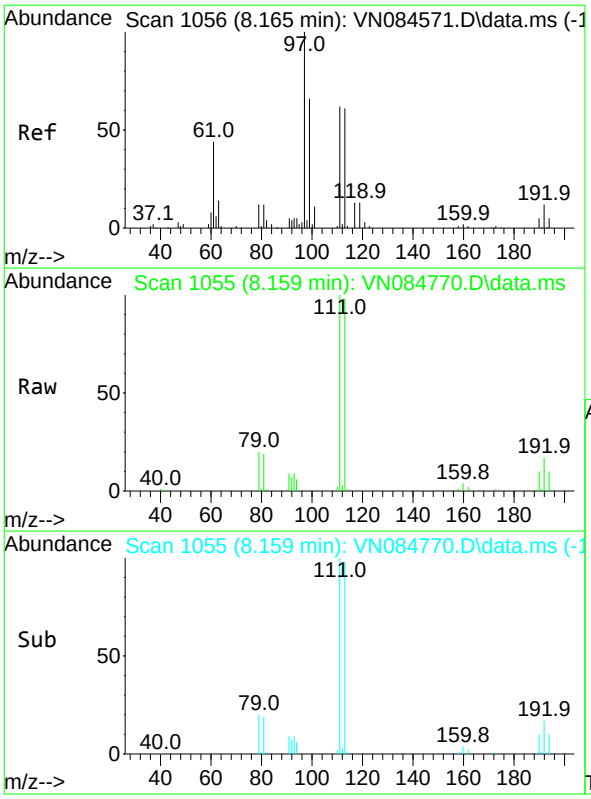


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084770.D
Acq: 11 Nov 2024 14:30

Tgt Ion:114 Resp: 275321

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	43.8
88	15.0	0.0	31.6



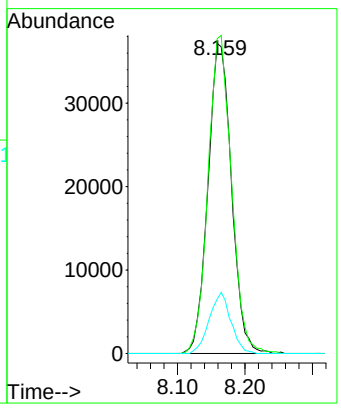


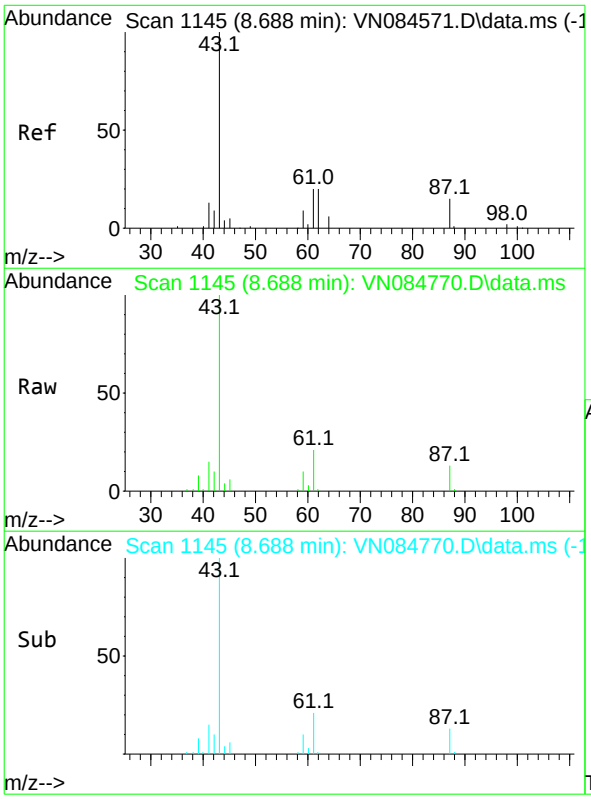
#35
Dibromofluoromethane
Concen: 48.324 ug/l
RT: 8.159 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084770.D
Acq: 11 Nov 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :
WC-2(4)

Tgt Ion:113 Resp: 90056

Ion	Ratio	Lower	Upper
113	100		
111	101.8	83.3	124.9
192	18.1	13.5	20.3

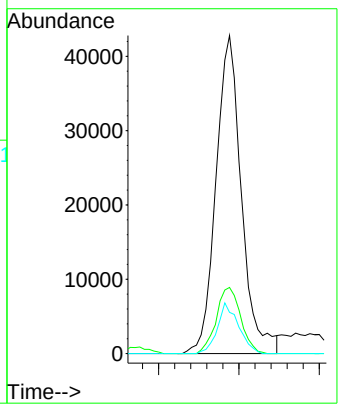


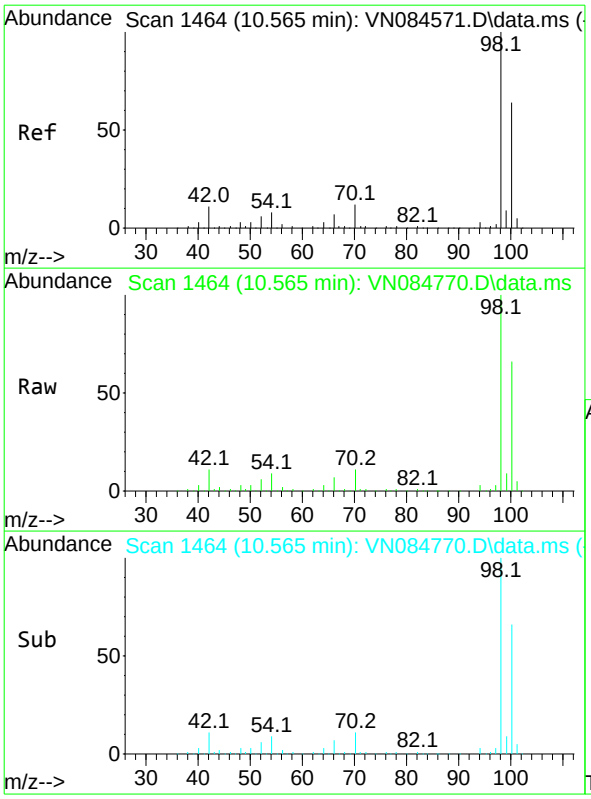


#43
Isopropyl Acetate
Concen: 21.223 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084770.D
Acq: 11 Nov 2024 14:30

Tgt Ion: 43 Resp: 94348

Ion	Ratio	Lower	Upper
43	100		
61	19.9	20.4	30.6#
87	13.2	10.3	15.5



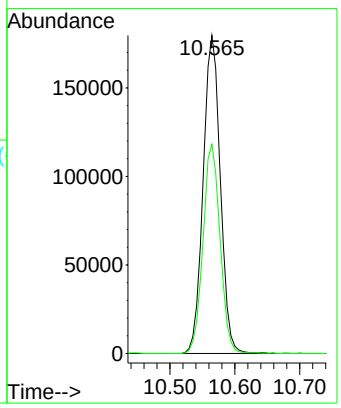


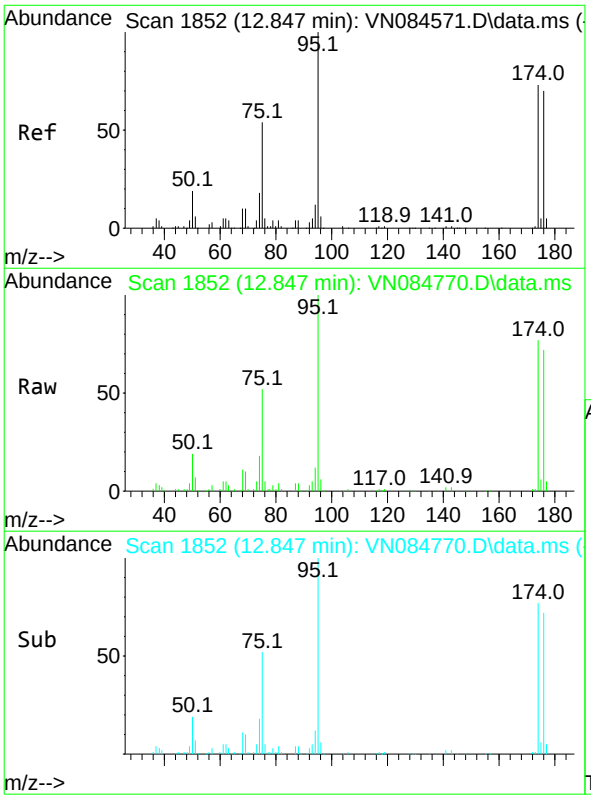
#50
Toluene-d8
Concen: 48.045 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084770.D
Acq: 11 Nov 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :
WC-2(4)

Tgt Ion: 98 Resp: 329823

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1

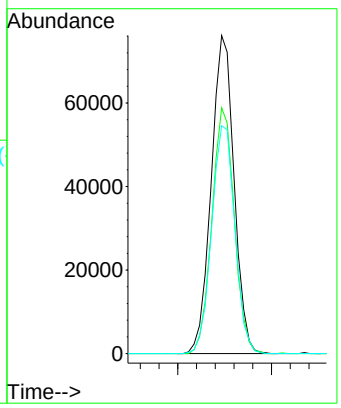


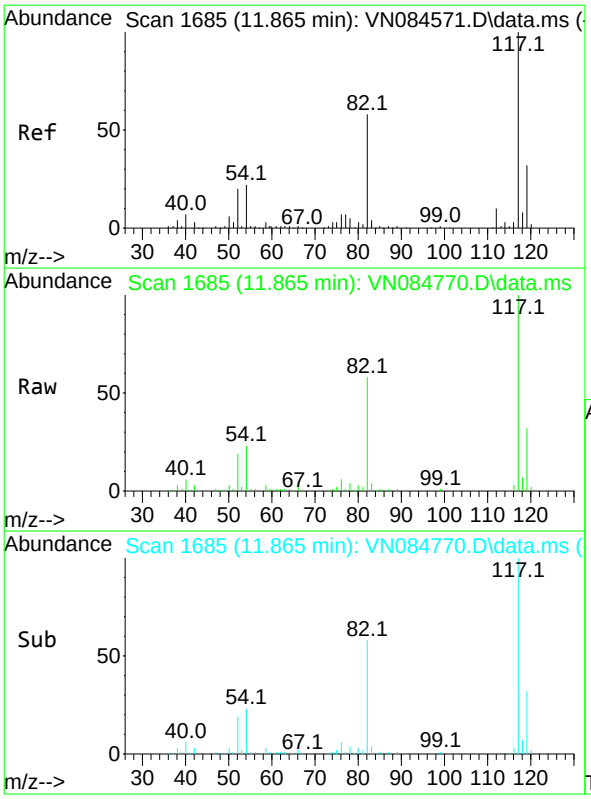


#62
4-Bromofluorobenzene
Concen: 50.100 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084770.D
Acq: 11 Nov 2024 14:30

Tgt Ion: 95 Resp: 128539

Ion	Ratio	Lower	Upper
95	100		
174	75.8	0.0	145.2
176	72.8	0.0	140.0



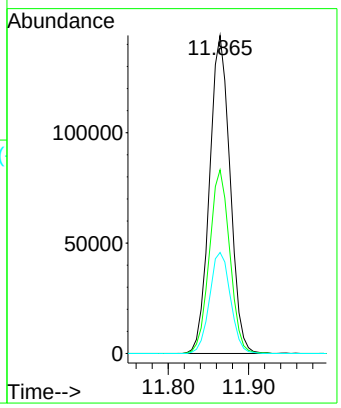


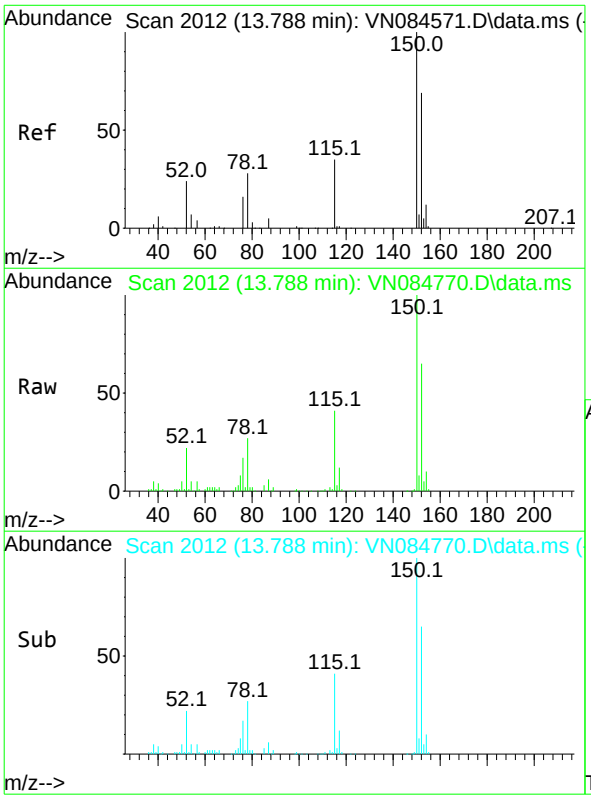
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084770.D
Acq: 11 Nov 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :
WC-2(4)

Tgt Ion:117 Resp: 255227

Ion	Ratio	Lower	Upper
117	100		
82	57.8	47.2	70.8
119	31.8	25.4	38.0

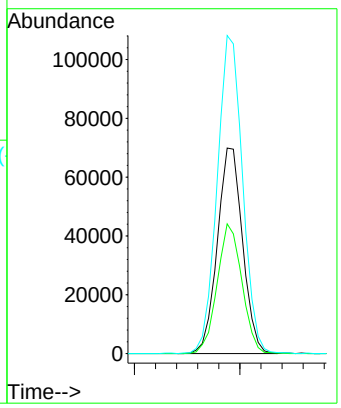




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084770.D
Acq: 11 Nov 2024 14:30

Tgt Ion:152 Resp: 116241

Ion	Ratio	Lower	Upper
152	100		
115	61.8	31.3	93.9
150	155.9	0.0	349.8



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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(3)	SDG No.:	P4722
Lab Sample ID:	P4722-12	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084771.D	1		11/11/24 14:54	VN111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	8.00	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.9		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	47.7		86 - 113	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		77 - 121	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	166000	8.224			
540-36-3	1,4-Difluorobenzene	286000	9.1			
3114-55-4	Chlorobenzene-d5	267000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	113000	13.788			

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

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

Sample Results: **VN084771.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084771.D
Acq On : 11 Nov 2024 14:54
Operator : JC\MD
Sample : P4722-12
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-3(3)

Quant Time: Nov 12 00:32:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

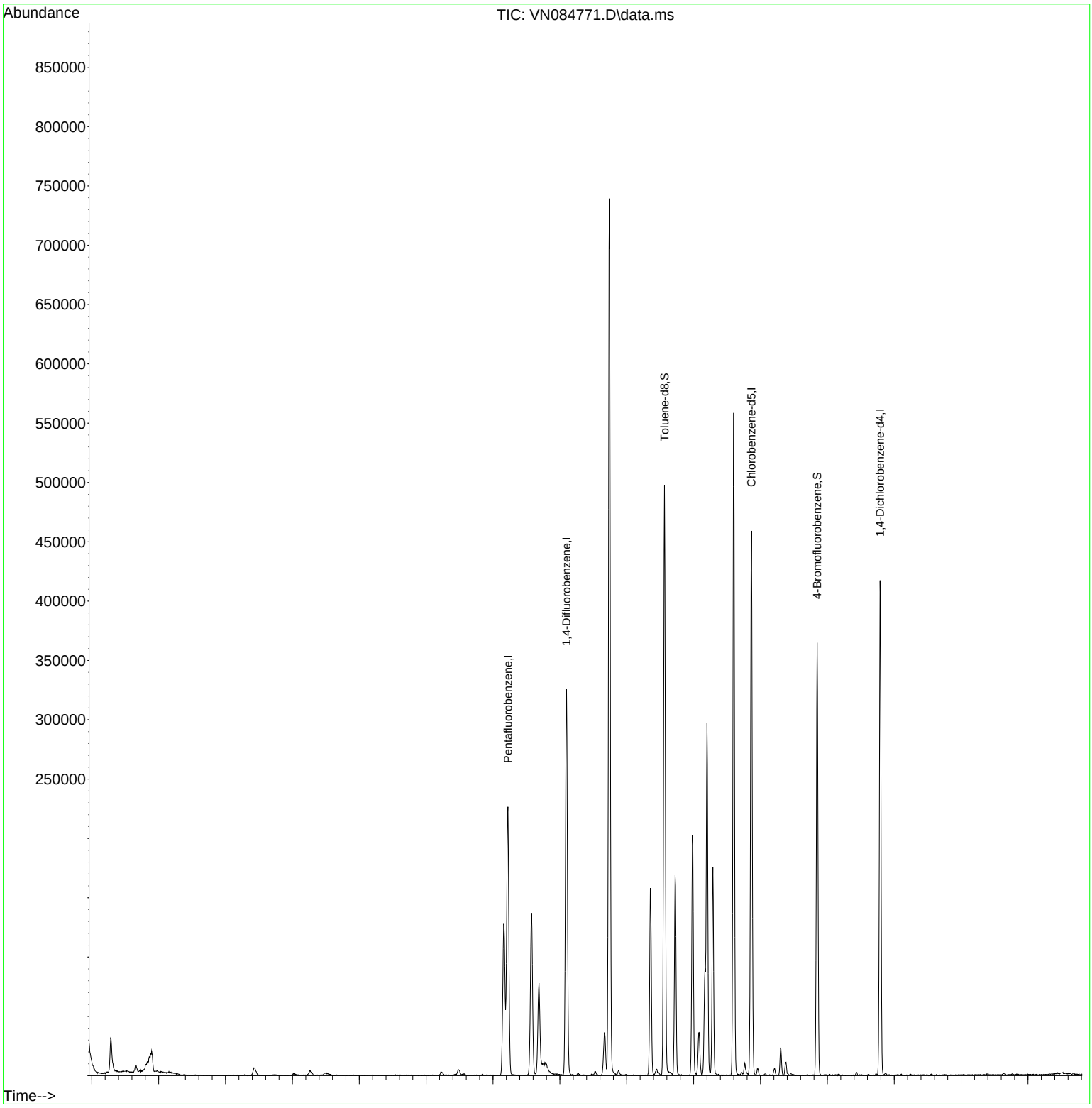
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	166359	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	285540	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	266633	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	113376	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	115053	47.883	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.760%		
35) Dibromofluoromethane	8.165	113	94697	48.996	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.000%		
50) Toluene-d8	10.565	98	339482	47.682	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.360%		
62) 4-Bromofluorobenzene	12.847	95	128719	48.375	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.760%		
Target Compounds						Qvalue
16) Acetone	4.436	43	12855	15.849	ug/l	91
20) Methylene Chloride	5.265	84	3108	1.471	ug/l	95
25) 2-Butanone	7.483	43	8997	8.026	ug/l #	89
43) Isopropyl Acetate	8.688	43	91078	19.686	ug/l #	90

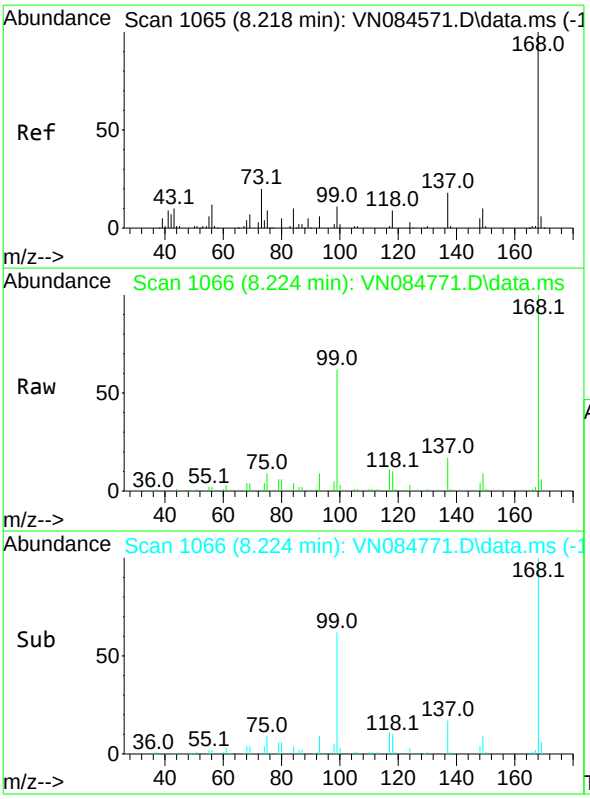
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084771.D
Acq On : 11 Nov 2024 14:54
Operator : JC\MD
Sample : P4722-12
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-3(3)

Quant Time: Nov 12 00:32:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



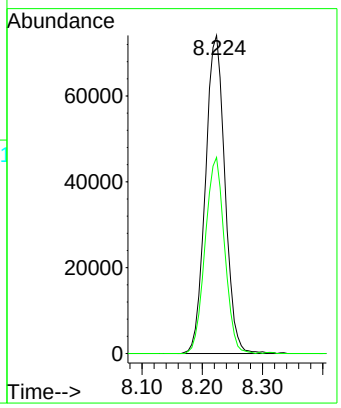


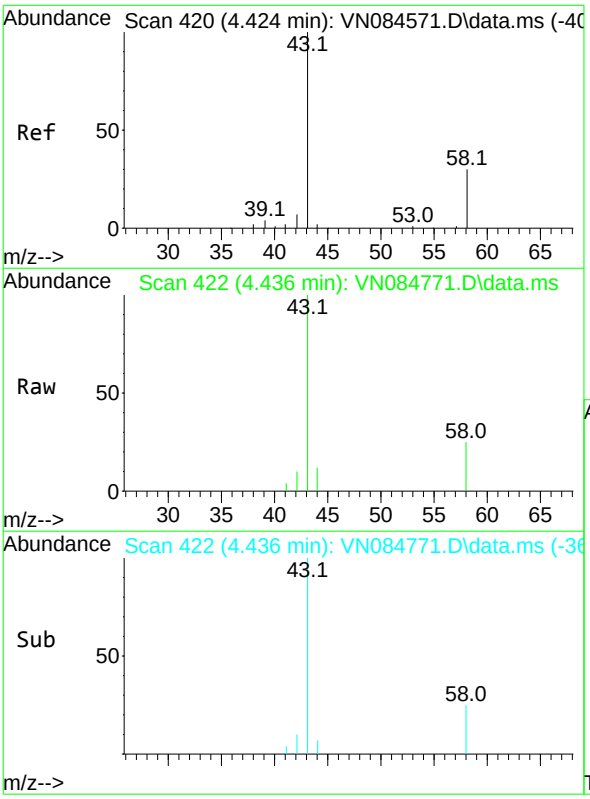
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084771.D
Acq: 11 Nov 2024 14:54

Instrument :
MSVOA_N
ClientSampleId :
WC-3(3)

Tgt Ion:168 Resp: 166359

Ion	Ratio	Lower	Upper
168	100		
99	61.7	54.2	81.2

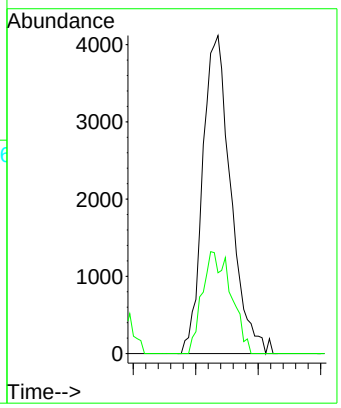


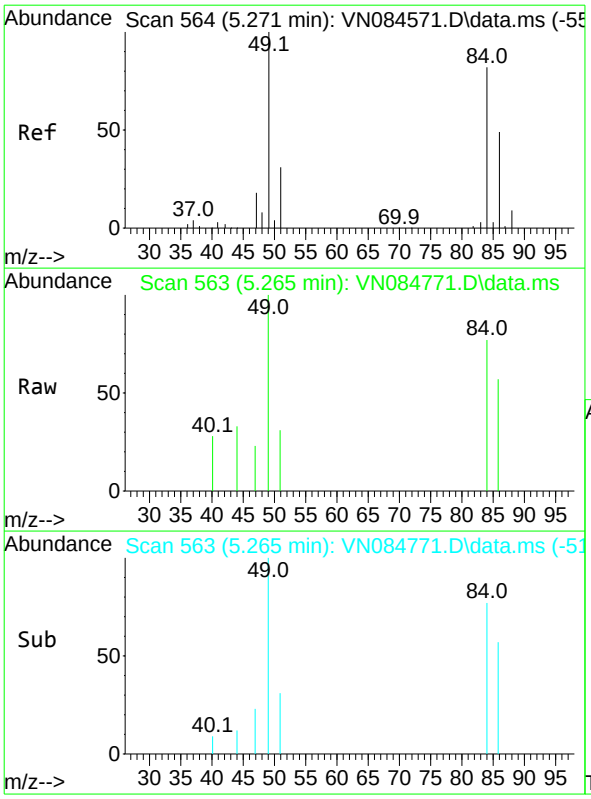


#16
Acetone
Concen: 15.849 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN084771.D
Acq: 11 Nov 2024 14:54

Tgt Ion: 43 Resp: 12855

Ion	Ratio	Lower	Upper
43	100		
58	25.4	24.4	36.6



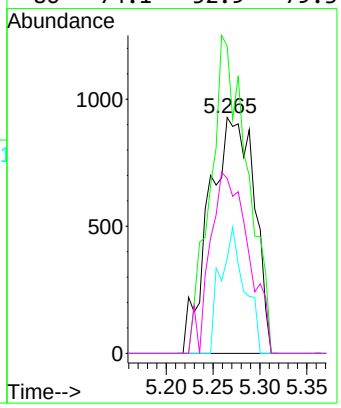


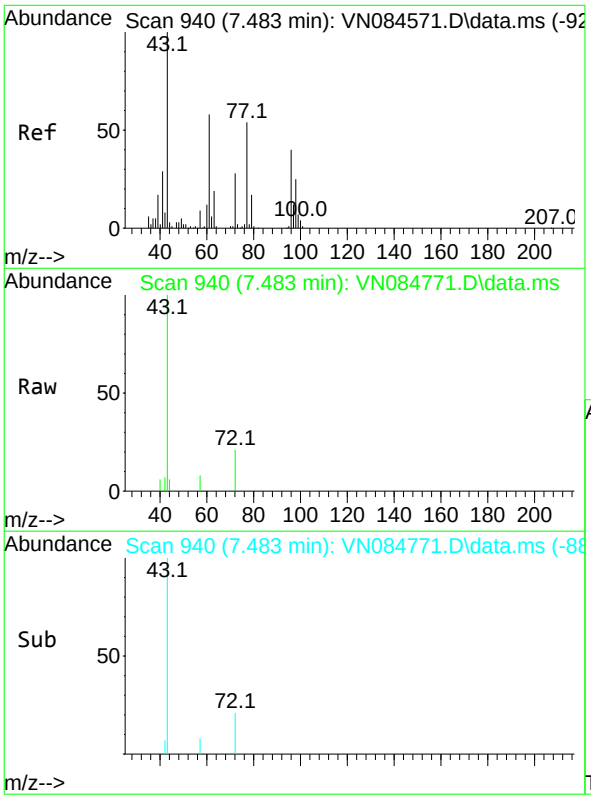
#20
Methylene Chloride
Concen: 1.471 ug/l
RT: 5.265 min Scan# 56
Delta R.T. -0.012 min
Lab File: VN084771.D
Acq: 11 Nov 2024 14:54

Instrument :
MSVOA_N
ClientSampleId :
WC-3(3)

Tgt Ion: 84 Resp: 3108

Ion	Ratio	Lower	Upper
84	100		
49	130.3	107.2	160.8
51	40.2	31.8	47.8
86	74.1	52.9	79.3

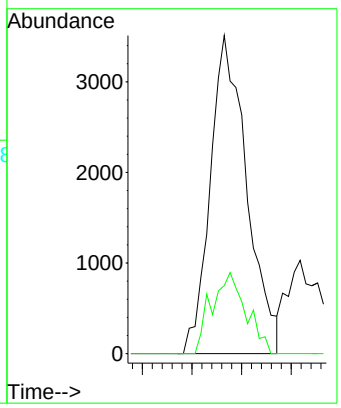


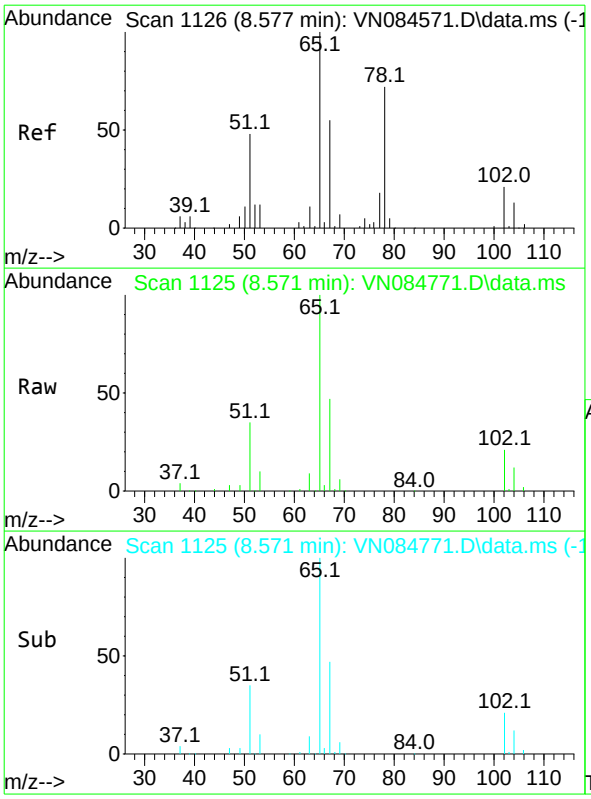


#25
2-Butanone
Concen: 8.026 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN084771.D
Acq: 11 Nov 2024 14:54

Tgt Ion: 43 Resp: 8997

Ion	Ratio	Lower	Upper
43	100		
72	21.4	21.4	32.2#



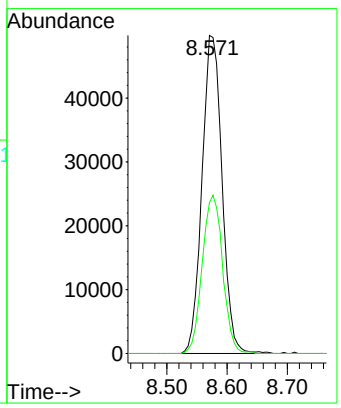


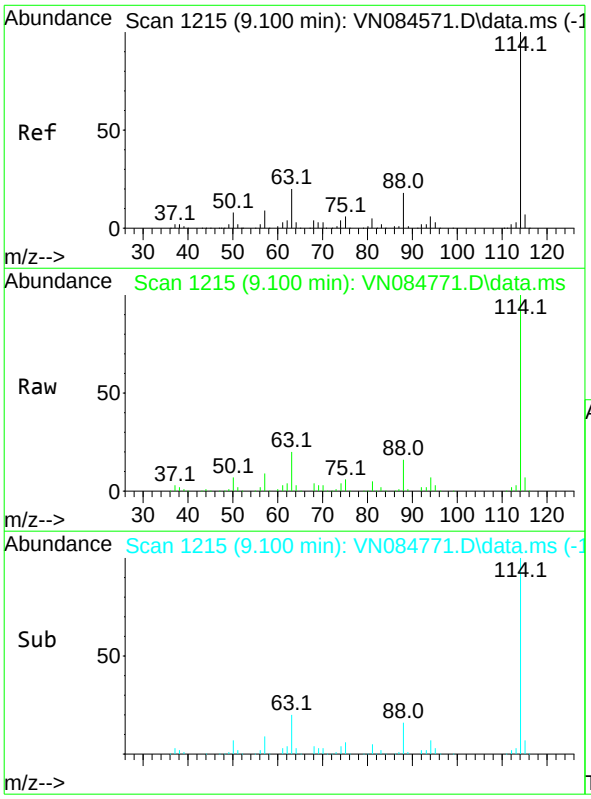
#33
1,2-Dichloroethane-d4
Concen: 47.883 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN084771.D
Acq: 11 Nov 2024 14:54

Instrument :
MSVOA_N
ClientSampleId :
WC-3(3)

Tgt Ion: 65 Resp: 115053

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	102.0

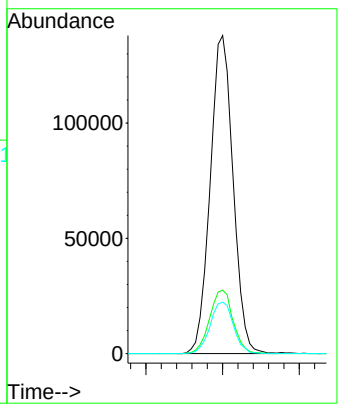


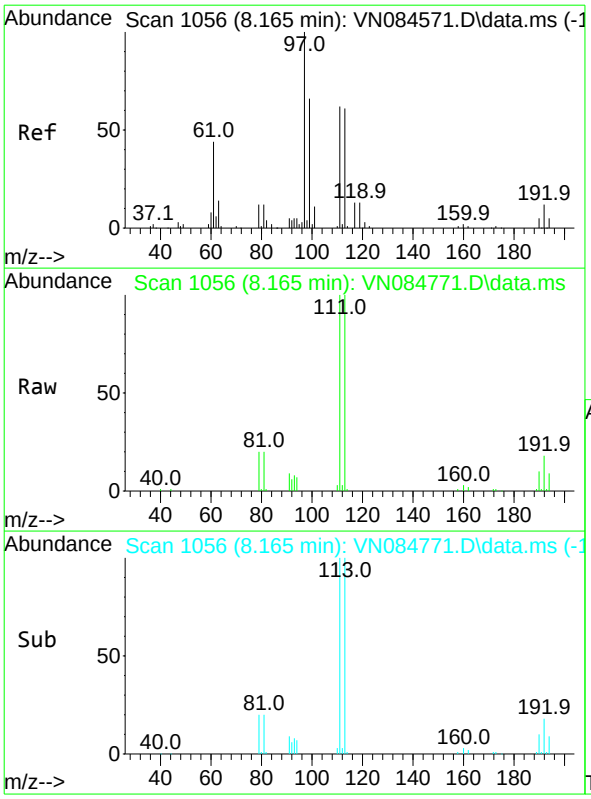


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084771.D
Acq: 11 Nov 2024 14:54

Tgt Ion:114 Resp: 285540

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	43.8
88	16.2	0.0	31.6



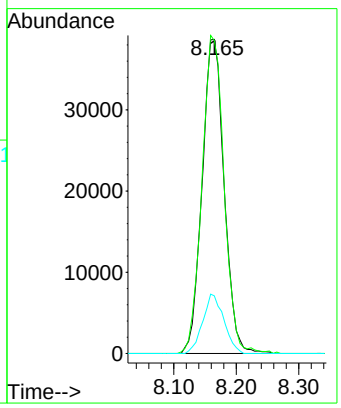


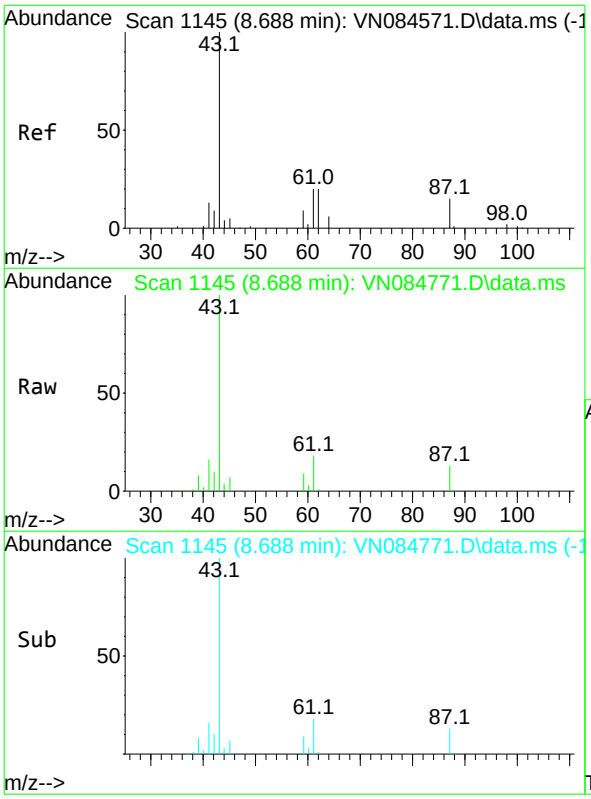
#35
Dibromofluoromethane
Concen: 48.996 ug/l
RT: 8.165 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084771.D
Acq: 11 Nov 2024 14:54

Instrument :
MSVOA_N
ClientSampleId :
WC-3(3)

Tgt Ion:113 Resp: 94697

Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.3	124.9
192	18.1	13.5	20.3

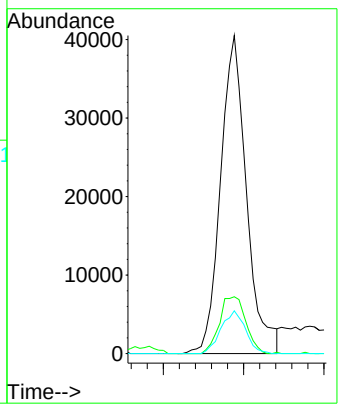


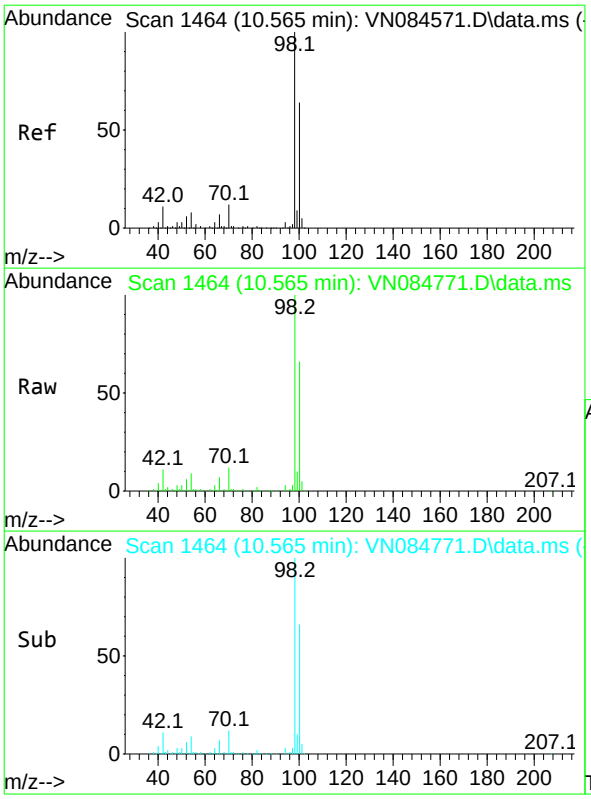


#43
Isopropyl Acetate
Concen: 19.686 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084771.D
Acq: 11 Nov 2024 14:54

Tgt Ion: 43 Resp: 91078

Ion	Ratio	Lower	Upper
43	100		
61	18.2	20.4	30.6#
87	12.7	10.3	15.5



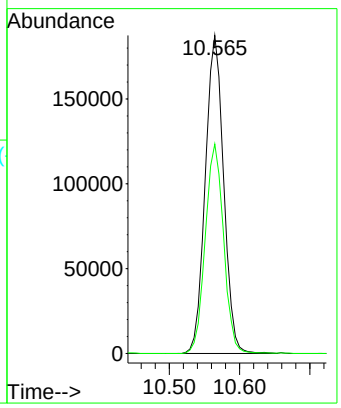


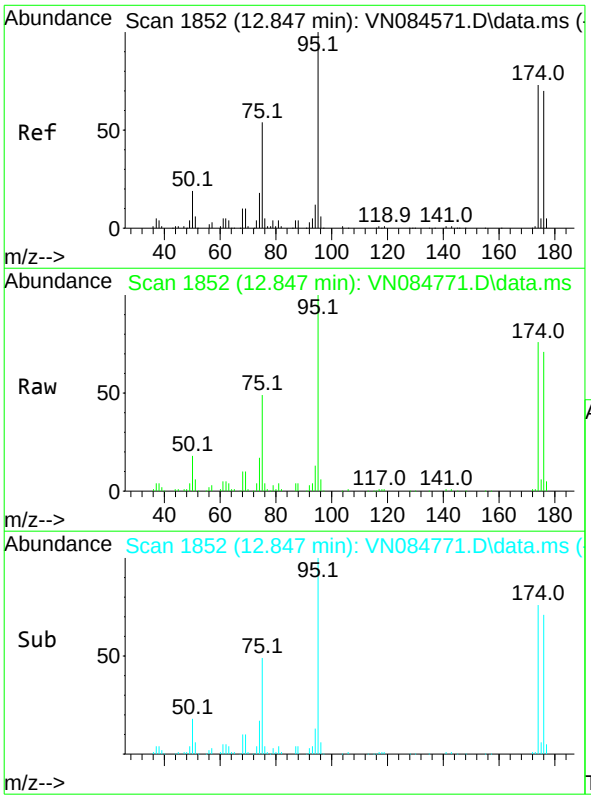
#50
Toluene-d8
Concen: 47.682 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084771.D
Acq: 11 Nov 2024 14:54

Instrument :
MSVOA_N
ClientSampleId :
WC-3(3)

Tgt Ion: 98 Resp: 339482

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.7	79.1

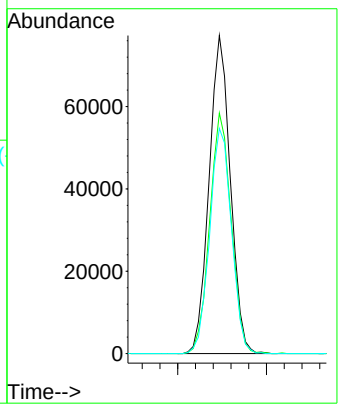


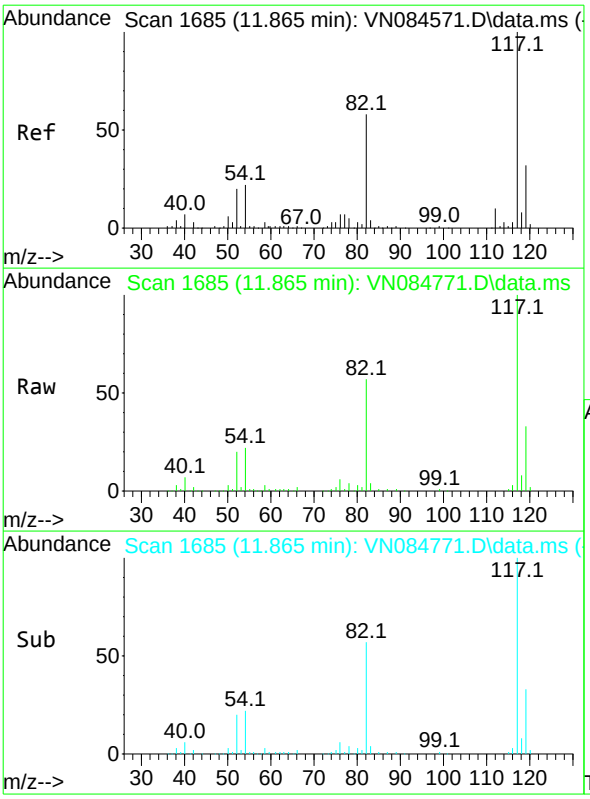


#62
4-Bromofluorobenzene
Concen: 48.375 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084771.D
Acq: 11 Nov 2024 14:54

Tgt Ion: 95 Resp: 128719

Ion	Ratio	Lower	Upper
95	100		
174	76.4	0.0	145.2
176	72.3	0.0	140.0



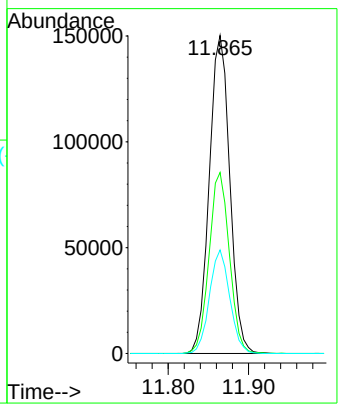


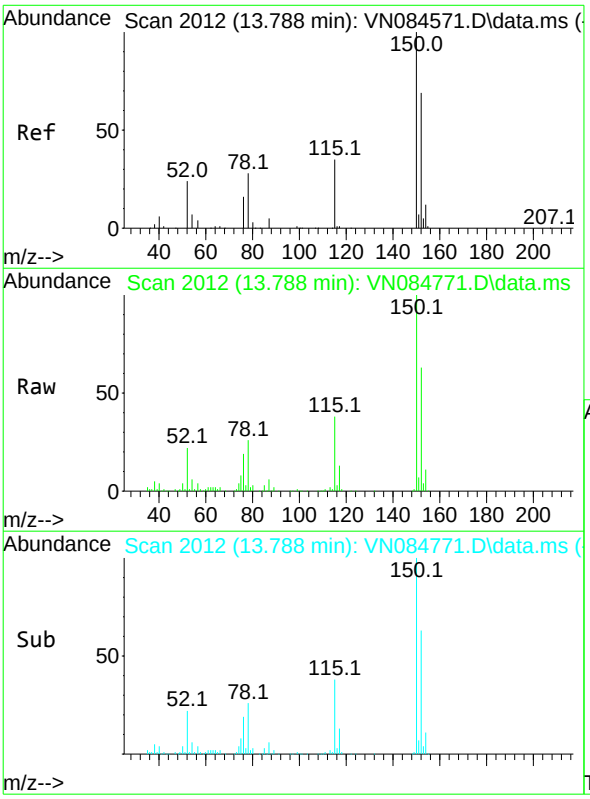
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084771.D
Acq: 11 Nov 2024 14:54

Instrument :
MSVOA_N
ClientSampleId :
WC-3(3)

Tgt Ion:117 Resp: 266633

Ion	Ratio	Lower	Upper
117	100		
82	56.9	47.2	70.8
119	32.6	25.4	38.0

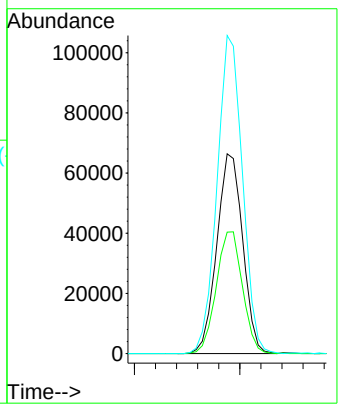




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084771.D
Acq: 11 Nov 2024 14:54

Tgt Ion:152 Resp: 113376

Ion	Ratio	Lower	Upper
152	100		
115	61.6	31.3	93.9
150	156.6	0.0	349.8



Raw Data: **VN084772.D**

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(5.5)	SDG No.:	P4722
Lab Sample ID:	P4722-16	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084772.D	1		11/11/24 15:18	VN111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	9.00	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.4		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	48.4		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		77 - 121	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	8.224			
540-36-3	1,4-Difluorobenzene	290000	9.1			
3114-55-4	Chlorobenzene-d5	269000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.788			

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

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

Sample Results: **VN084772.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084772.D
Acq On : 11 Nov 2024 15:18
Operator : JC\MD
Sample : P4722-16
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

Quant Time: Nov 12 00:32:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	166984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	289915	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	269271	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	115191	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	119024	49.350	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.700%			
35) Dibromofluoromethane	8.159	113	95357	48.593	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.180%			
50) Toluene-d8	10.565	98	349810	48.391	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.780%			
62) 4-Bromofluorobenzene	12.847	95	131680	48.741	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.480%			
Target Compounds						Qvalue
16) Acetone	4.436	43	17224	22.123	ug/l	94
20) Methylene Chloride	5.265	84	3558	1.677	ug/l #	73
25) 2-Butanone	7.482	43	10075	8.954	ug/l	90
43) Isopropyl Acetate	8.688	43	86312	18.309	ug/l #	91

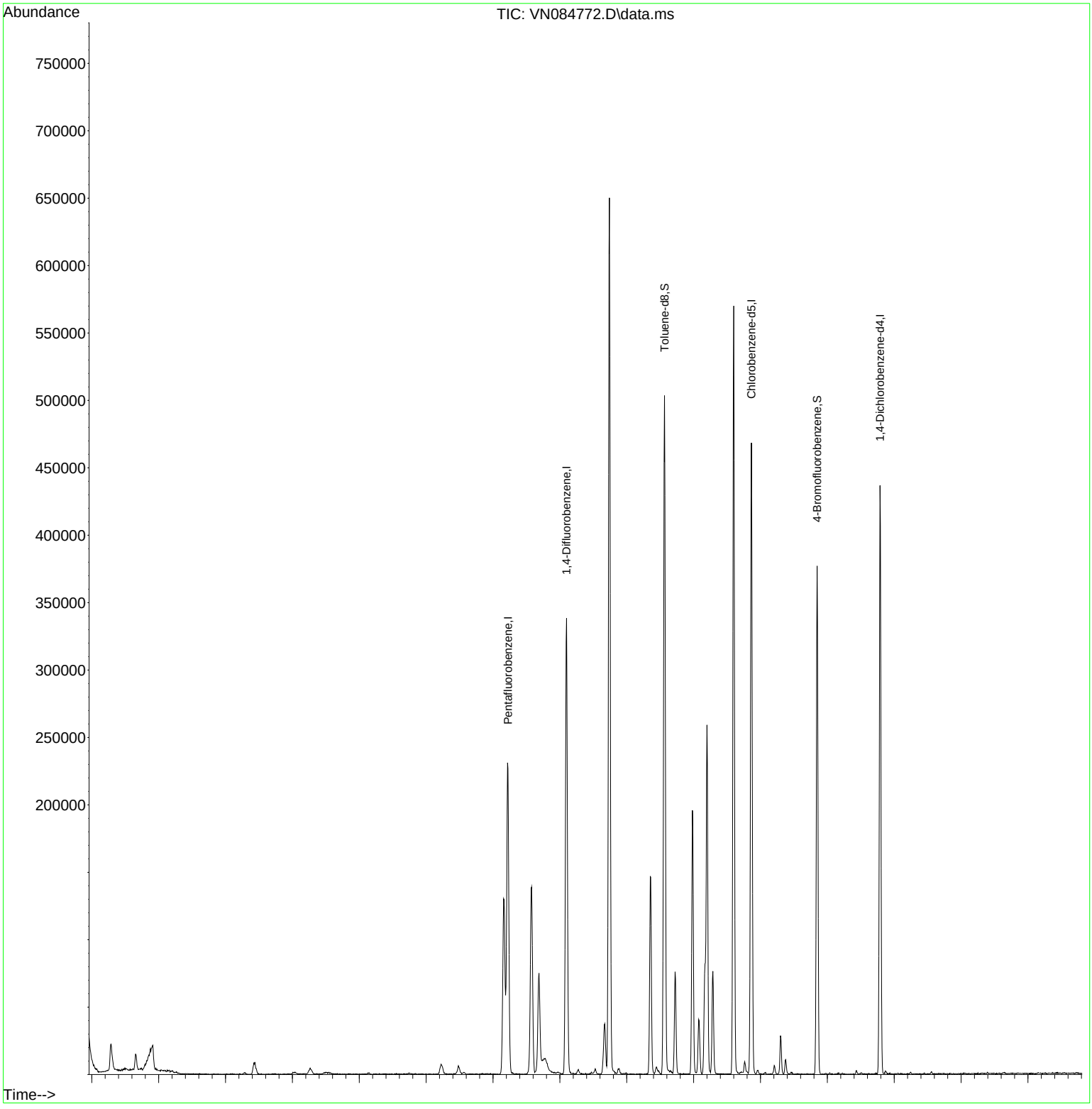
(#) = qualifier out of range (m) = manual integration (+) = signals summed

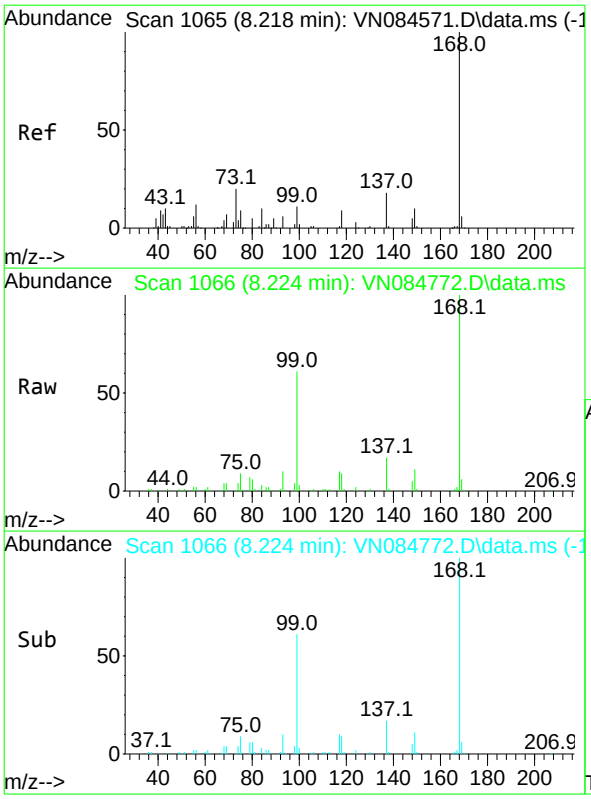
Sample Results: **VN084772.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084772.D
Acq On : 11 Nov 2024 15:18
Operator : JC\MD
Sample : P4722-16
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

Quant Time: Nov 12 00:32:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



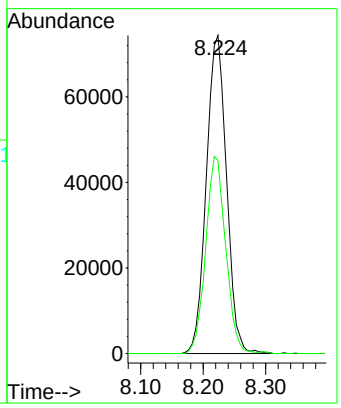


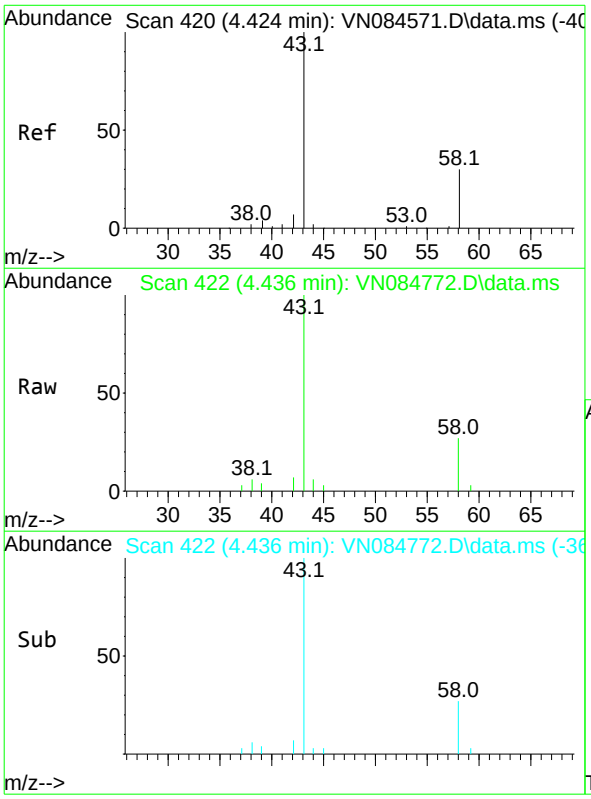
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

Tgt Ion:168 Resp: 166984

Ion	Ratio	Lower	Upper
168	100		
99	60.7	54.2	81.2

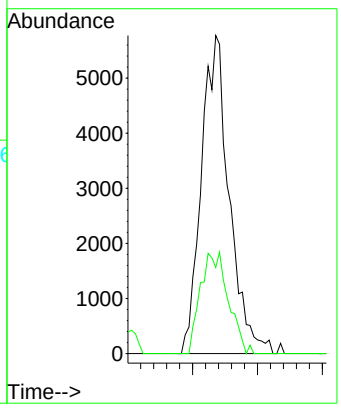


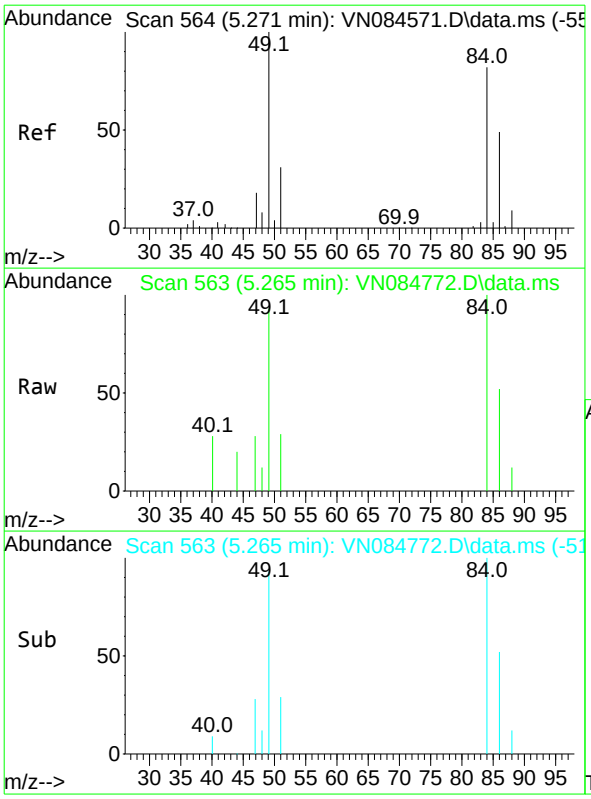


#16
Acetone
Concen: 22.123 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion: 43 Resp: 17224

Ion	Ratio	Lower	Upper
43	100		
58	27.1	24.4	36.6



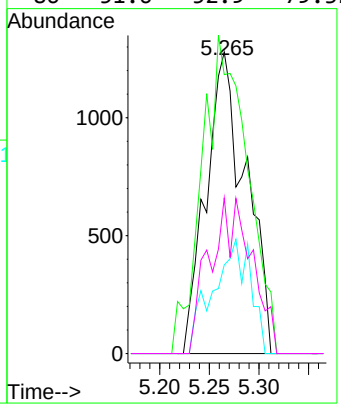


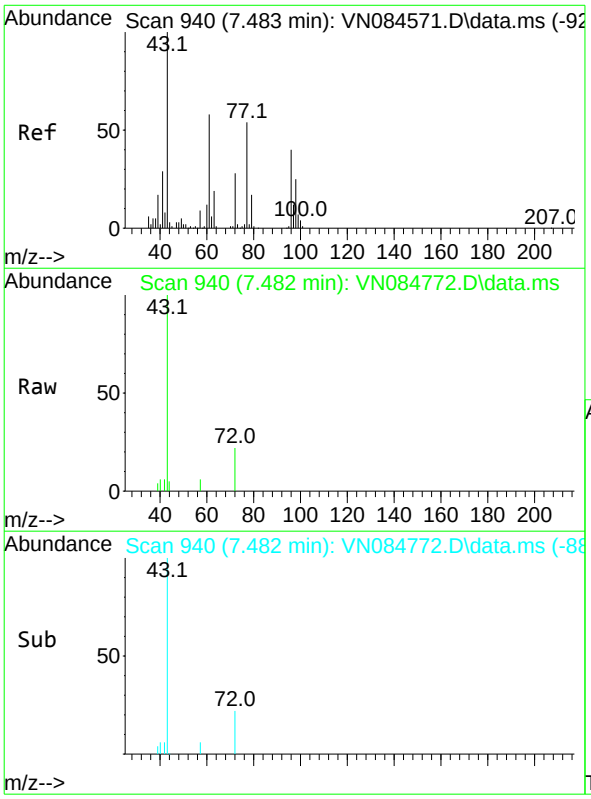
#20
Methylene Chloride
Concen: 1.677 ug/l
RT: 5.265 min Scan# 56
Delta R.T. -0.012 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

Tgt Ion: 84 Resp: 3558

Ion	Ratio	Lower	Upper
84	100		
49	92.6	107.2	160.8#
51	29.4	31.8	47.8#
86	51.6	52.9	79.3#

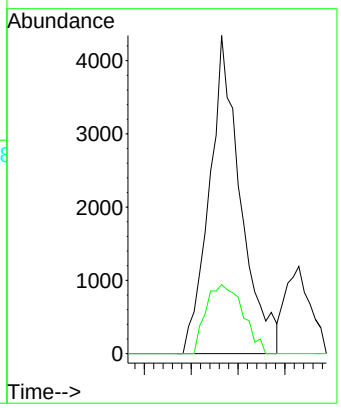


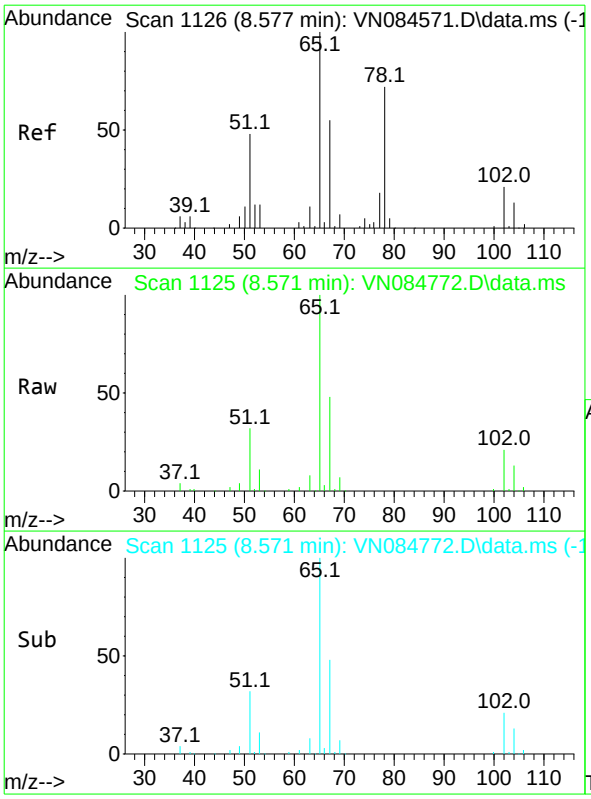


#25
2-Butanone
Concen: 8.954 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion: 43 Resp: 10075

Ion	Ratio	Lower	Upper
43	100		
72	21.7	21.4	32.2



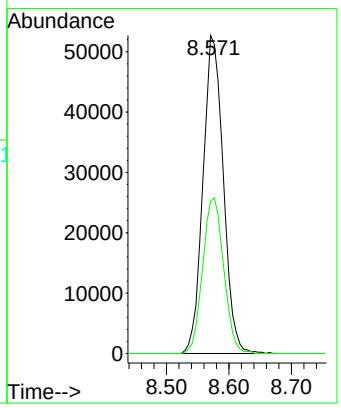


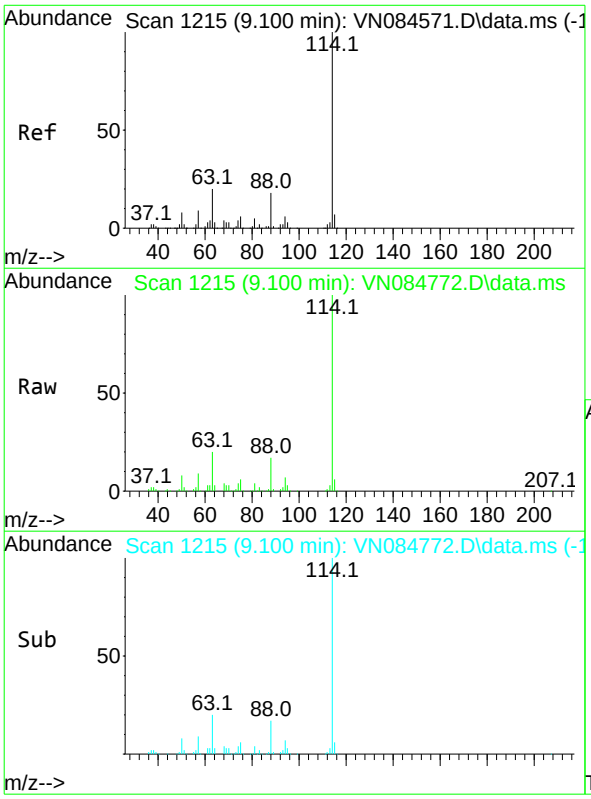
#33
1,2-Dichloroethane-d4
Concen: 49.350 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

Tgt Ion: 65 Resp: 119024

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	102.0

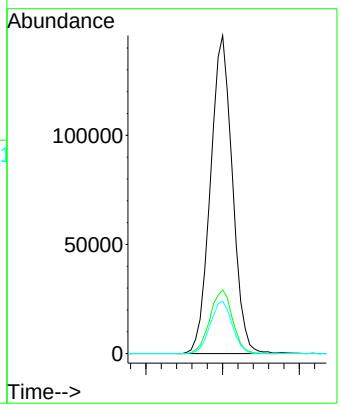


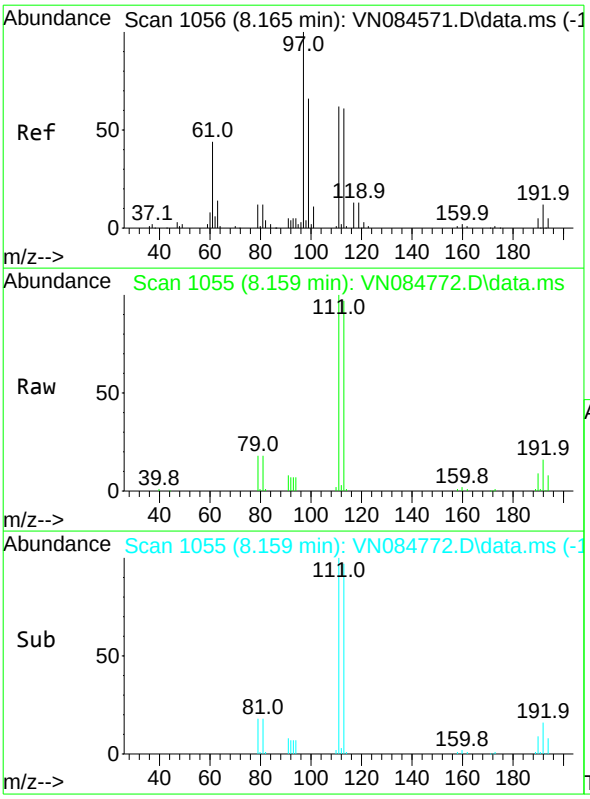


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion:114 Resp: 289915

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	43.8
88	16.5	0.0	31.6



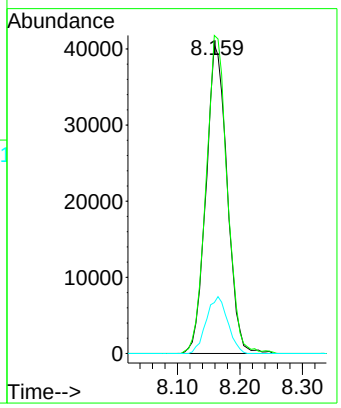


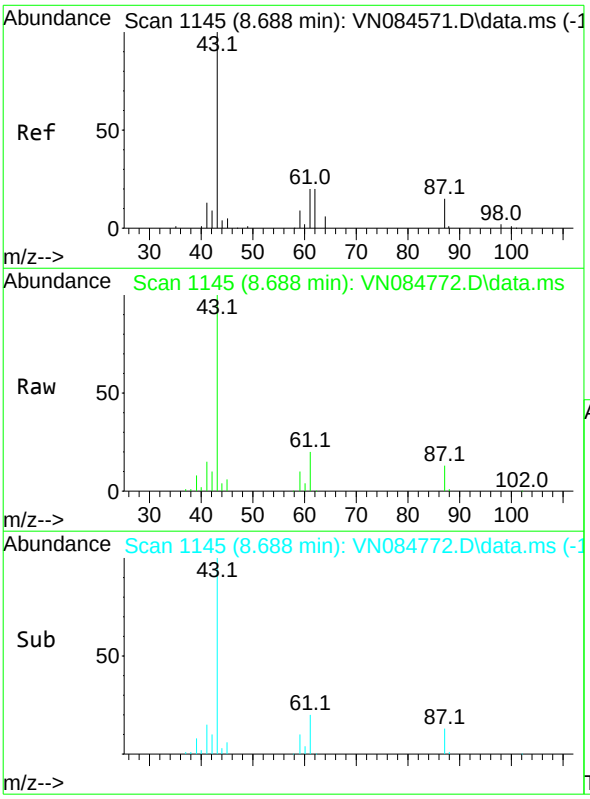
#35
Dibromofluoromethane
Concen: 48.593 ug/l
RT: 8.159 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

Tgt Ion:113 Resp: 95357

Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.3	124.9
192	18.7	13.5	20.3

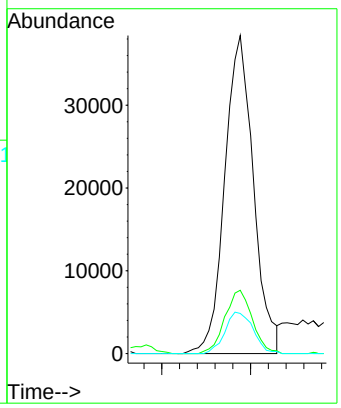




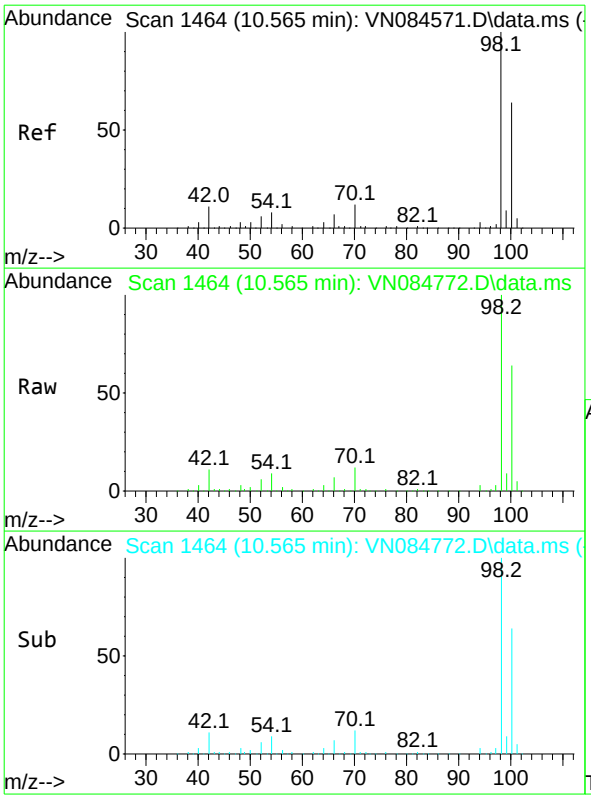
#43
Isopropyl Acetate
Concen: 18.309 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion: 43 Resp: 86312

Ion	Ratio	Lower	Upper
43	100		
61	19.0	20.4	30.6#
87	12.8	10.3	15.5



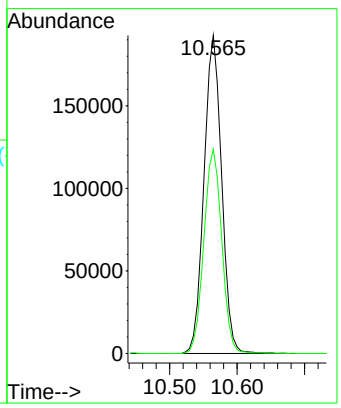
Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

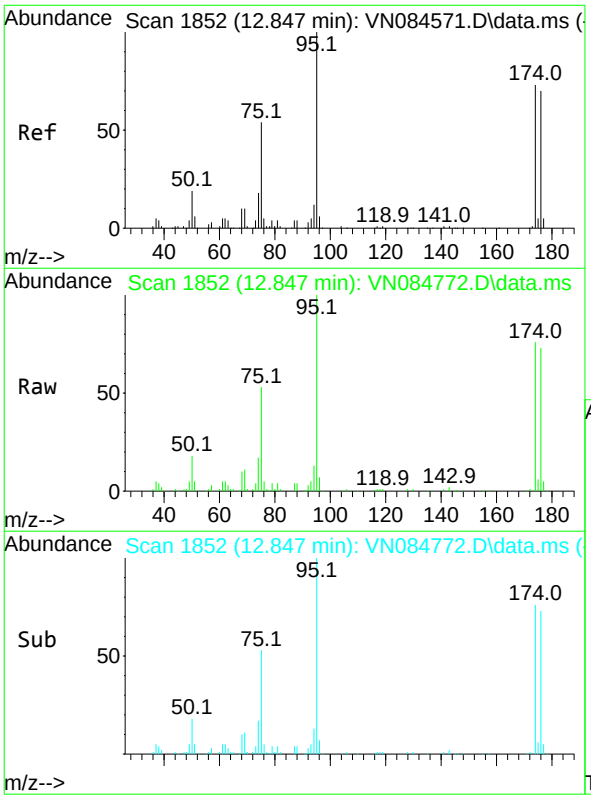


#50
Toluene-d8
Concen: 48.391 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion: 98 Resp: 349810

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.7	79.1

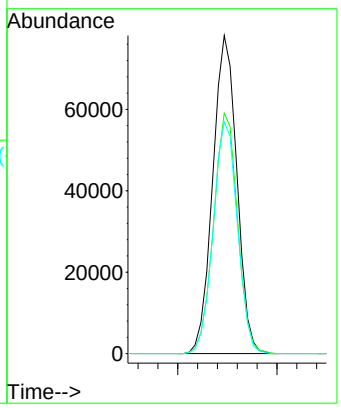


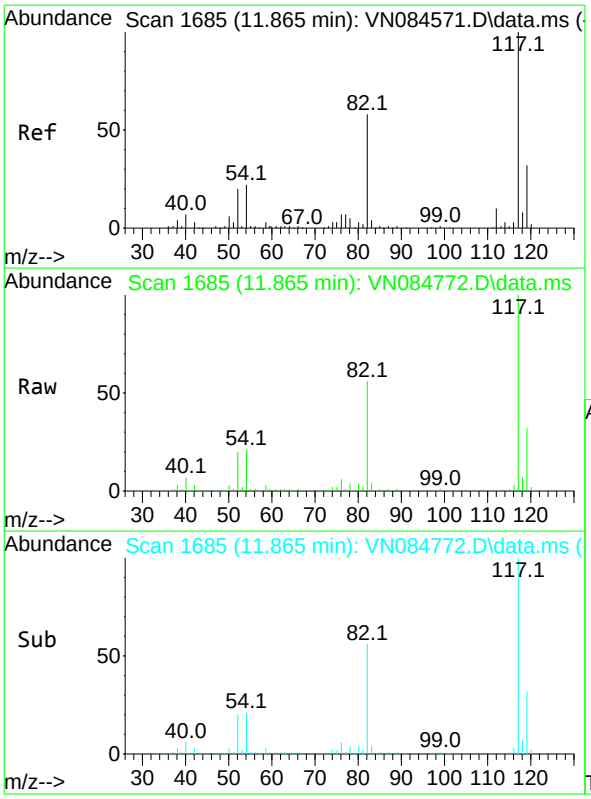


#62
4-Bromofluorobenzene
Concen: 48.741 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion: 95 Resp: 131680

Ion	Ratio	Lower	Upper
95	100		
174	75.3	0.0	145.2
176	73.6	0.0	140.0



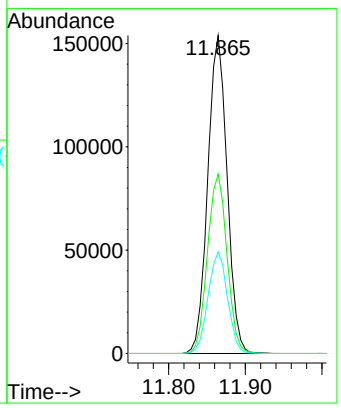


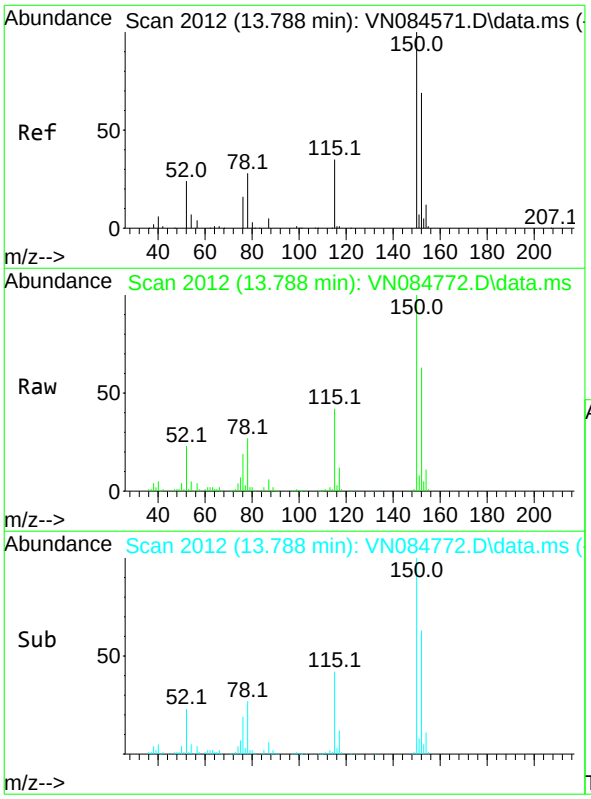
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Instrument :
MSVOA_N
ClientSampleId :
WC-1(5.5)

Tgt Ion:117 Resp: 269271

Ion	Ratio	Lower	Upper
117	100		
82	56.4	47.2	70.8
119	32.0	25.4	38.0

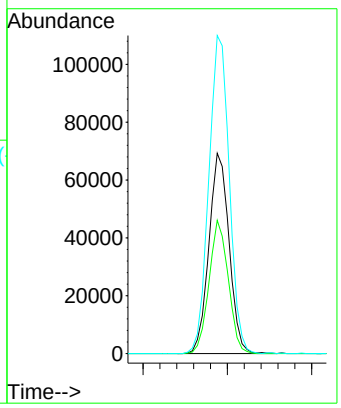




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084772.D
Acq: 11 Nov 2024 15:18

Tgt Ion:152 Resp: 115191

Ion	Ratio	Lower	Upper
152	100		
115	63.2	31.3	93.9
150	161.1	0.0	349.8



Raw Data: **VN084773.D**

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(2)	SDG No.:	P4722
Lab Sample ID:	P4722-18	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084773.D	1		11/11/24 15:42	VN111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	7.40	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	48.5		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		77 - 121	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	172000	8.218			
540-36-3	1,4-Difluorobenzene	301000	9.1			
3114-55-4	Chlorobenzene-d5	280000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	128000	13.794			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084773.D
Acq On : 11 Nov 2024 15:42
Operator : JC\MD
Sample : P4722-18
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-2(2)

Quant Time: Nov 12 00:33:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	171996	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	301059	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	280468	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	127677	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	121045	48.726	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.460%		
35) Dibromofluoromethane	8.165	113	100566	49.350	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.700%		
50) Toluene-d8	10.565	98	364159	48.512	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.020%		
62) 4-Bromofluorobenzene	12.847	95	137389	48.972	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.940%		
Target Compounds						Qvalue
16) Acetone	4.436	43	13805	16.575	ug/l	96
20) Methylene Chloride	5.271	84	3239	1.482	ug/l #	84
25) 2-Butanone	7.482	43	8580	7.403	ug/l	97
43) Isopropyl Acetate	8.682	43	95568	19.587	ug/l #	89

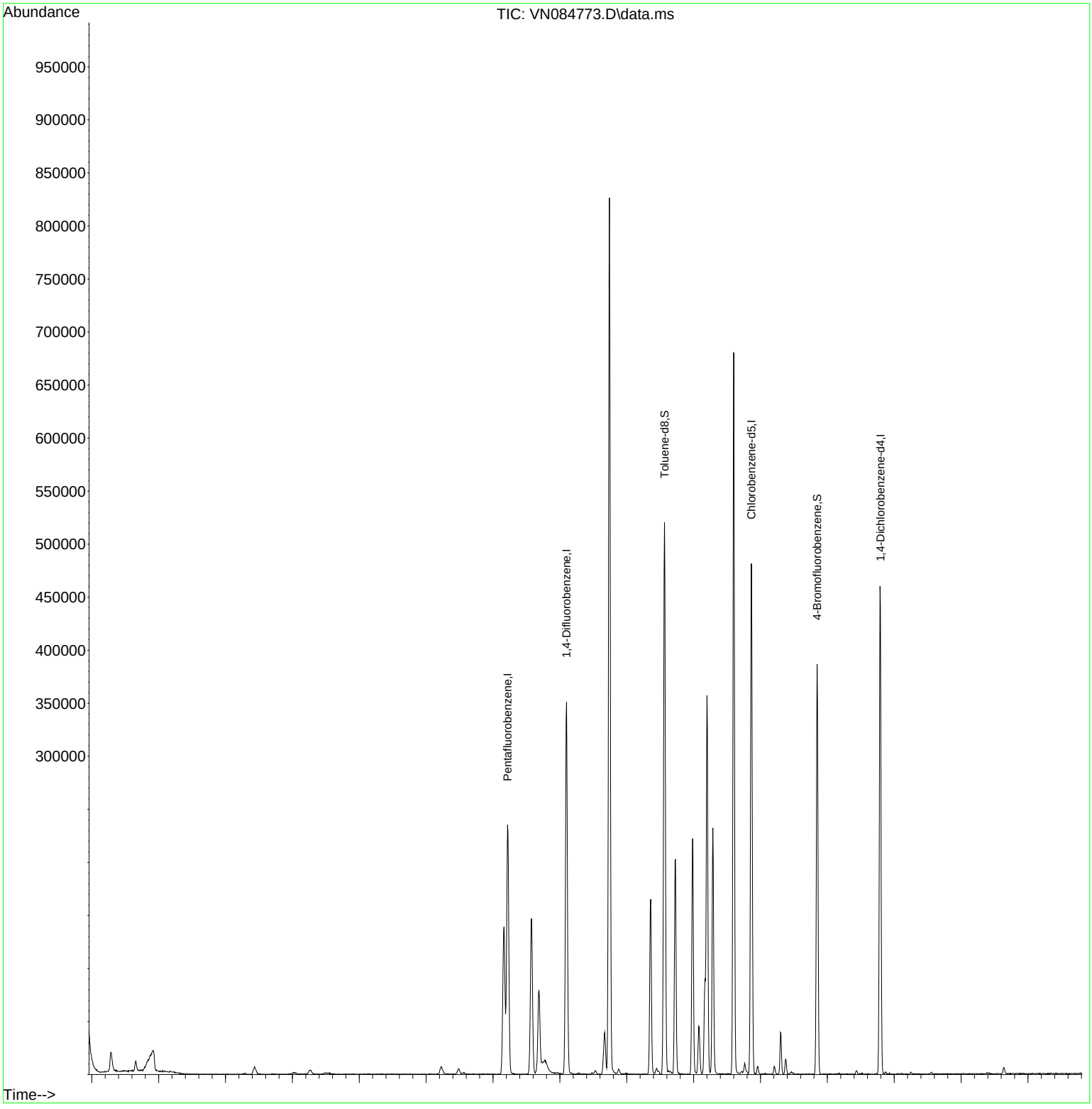
(#) = qualifier out of range (m) = manual integration (+) = signals summed

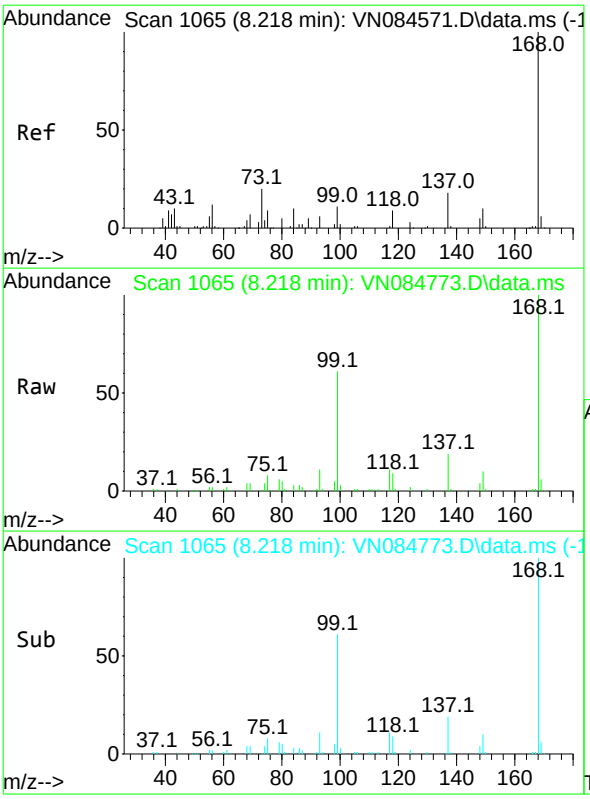
Sample Results: **VN084773.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084773.D
Acq On : 11 Nov 2024 15:42
Operator : JC\MD
Sample : P4722-18
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-2(2)

Quant Time: Nov 12 00:33:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



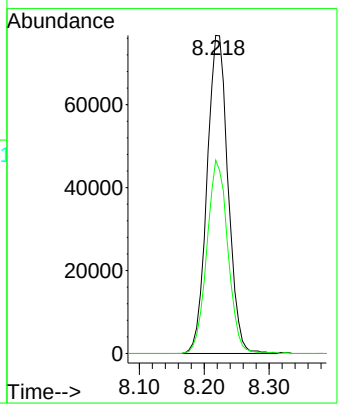


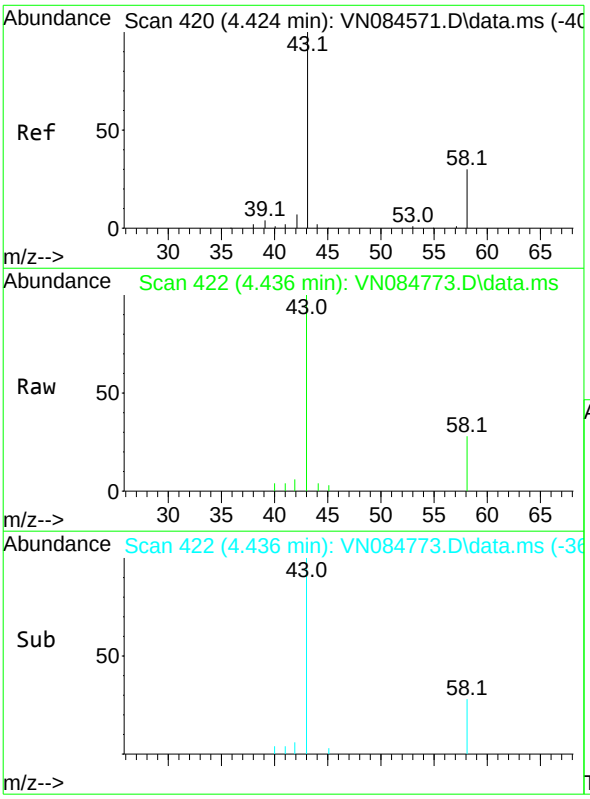
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084773.D
Acq: 11 Nov 2024 15:42

Instrument :
MSVOA_N
ClientSampleId :
WC-2(2)

Tgt Ion:168 Resp: 171996

Ion	Ratio	Lower	Upper
168	100		
99	60.8	54.2	81.2

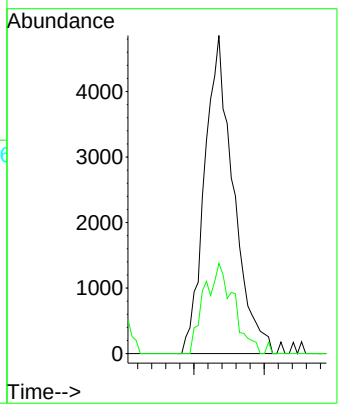


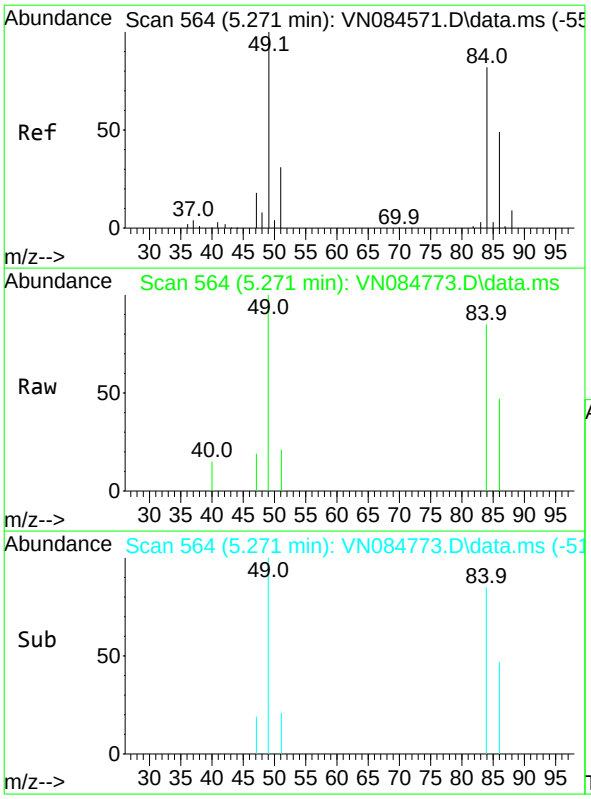


#16
Acetone
Concen: 16.575 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN084773.D
Acq: 11 Nov 2024 15:42

Tgt Ion: 43 Resp: 13805

Ion	Ratio	Lower	Upper
43	100		
58	28.3	24.4	36.6



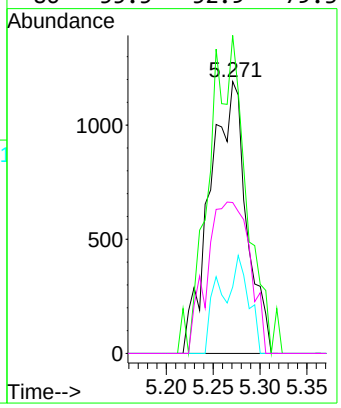


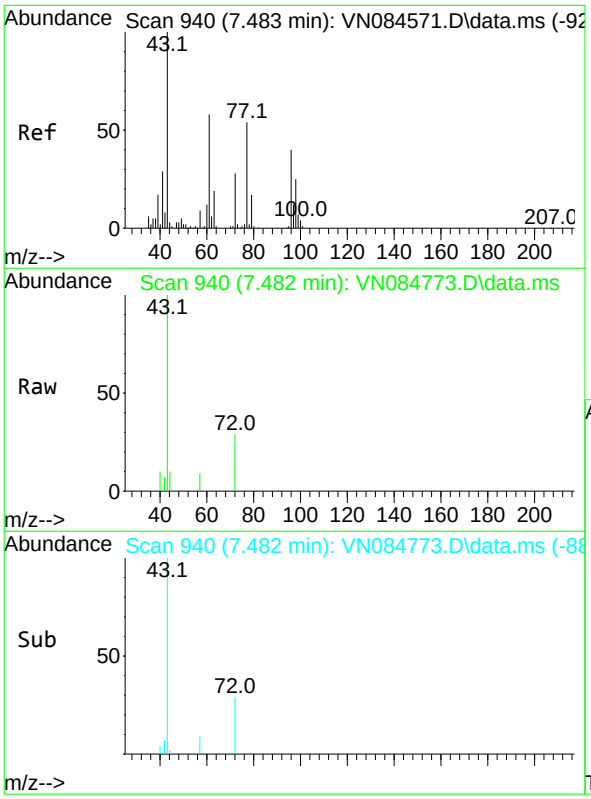
#20
Methylene Chloride
Concen: 1.482 ug/l
RT: 5.271 min Scan# 56
Delta R.T. -0.006 min
Lab File: VN084773.D
Acq: 11 Nov 2024 15:42

Instrument :
MSVOA_N
ClientSampleId :
WC-2(2)

Tgt Ion: 84 Resp: 3239

Ion	Ratio	Lower	Upper
84	100		
49	117.0	107.2	160.8
51	24.4	31.8	47.8#
86	55.5	52.9	79.3

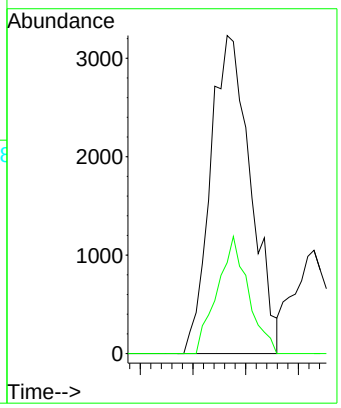


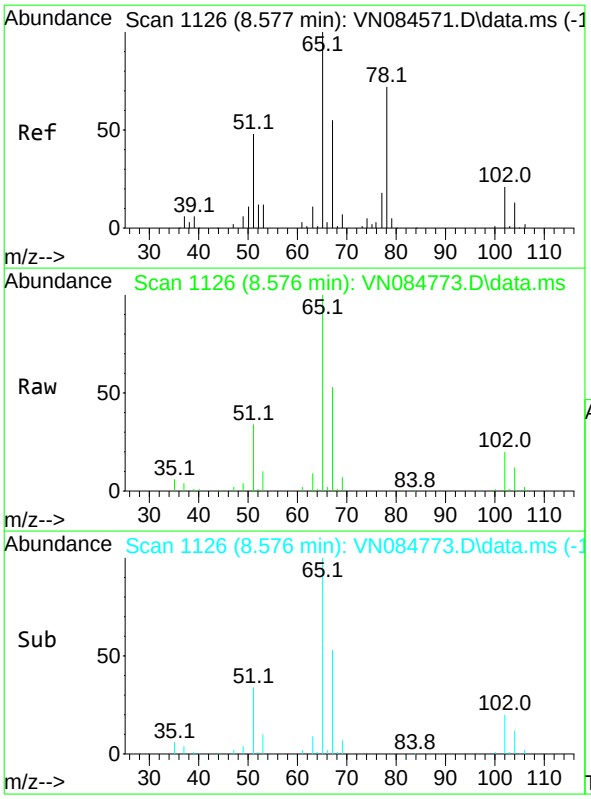


#25
2-Butanone
Concen: 7.403 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN084773.D
Acq: 11 Nov 2024 15:42

Tgt Ion: 43 Resp: 8580

Ion	Ratio	Lower	Upper
43	100		
72	28.6	21.4	32.2



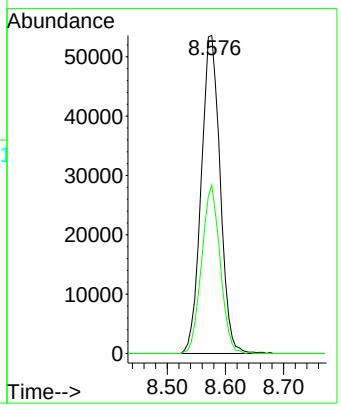


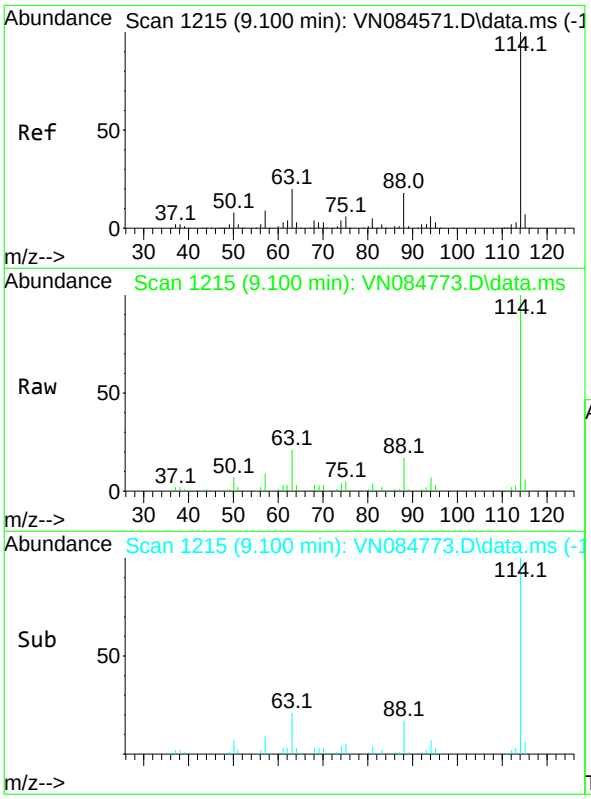
#33
1,2-Dichloroethane-d4
Concen: 48.726 ug/l
RT: 8.576 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN084773.D
Acq: 11 Nov 2024 15:42

Instrument :
MSVOA_N
ClientSampleId :
WC-2(2)

Tgt Ion: 65 Resp: 121045

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	102.0

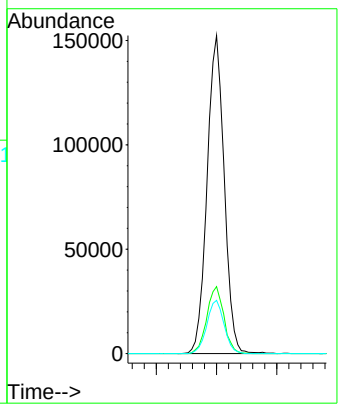


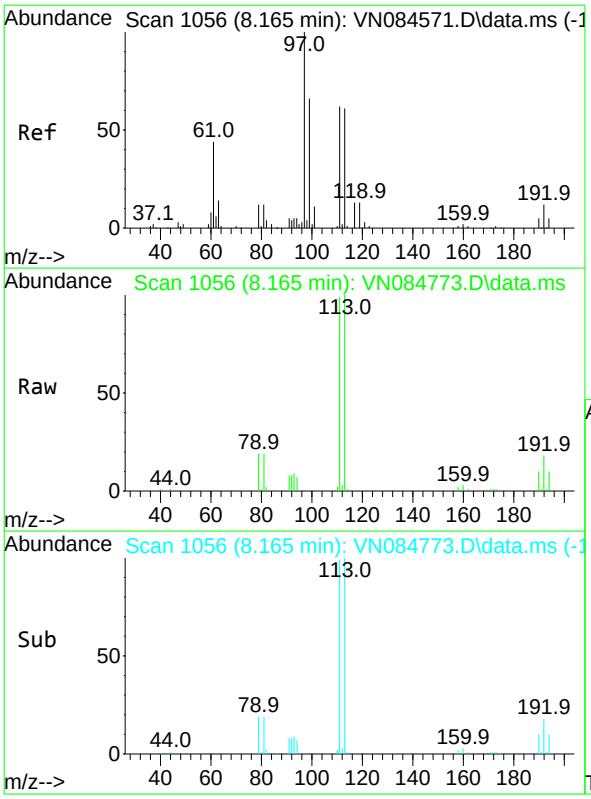


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN084773.D
Acq: 11 Nov 2024 15:42

Tgt Ion:114 Resp: 301059

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	43.8
88	16.7	0.0	31.6



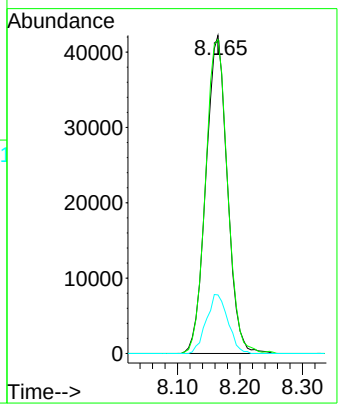


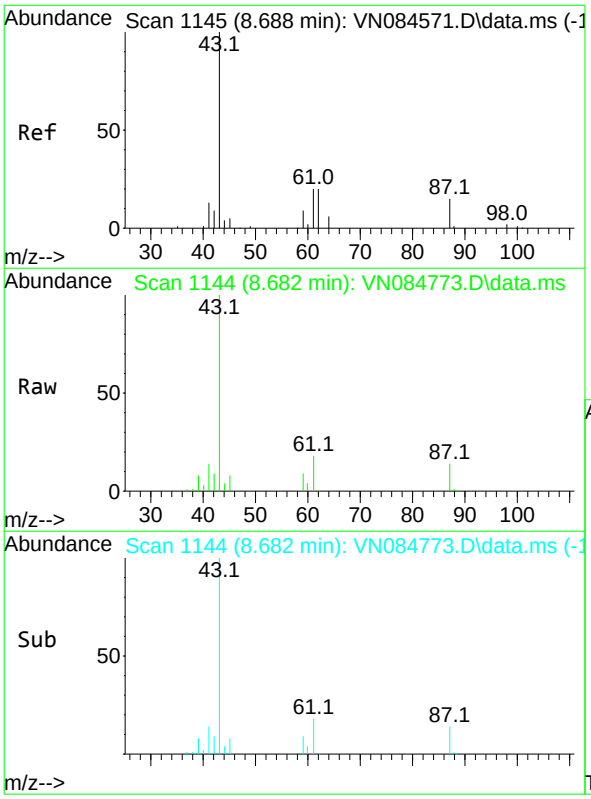
#35
Dibromofluoromethane
Concen: 49.350 ug/l
RT: 8.165 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084773.D
Acq: 11 Nov 2024 15:42

Instrument :
MSVOA_N
ClientSampleId :
WC-2(2)

Tgt Ion:113 Resp: 100566

Ion	Ratio	Lower	Upper
113	100		
111	101.2	83.3	124.9
192	18.7	13.5	20.3

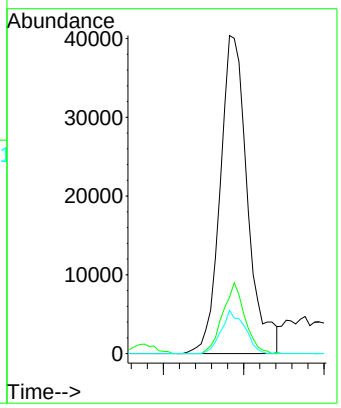


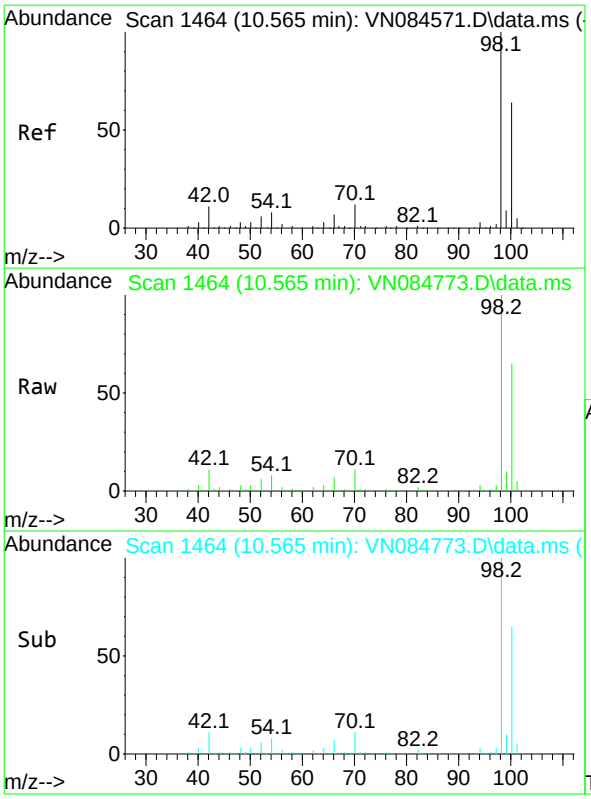


#43
Isopropyl Acetate
Concen: 19.587 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN084773.D
Acq: 11 Nov 2024 15:42

Tgt Ion: 43 Resp: 95568

Ion	Ratio	Lower	Upper
43	100		
61	18.1	20.4	30.6#
87	11.5	10.3	15.5



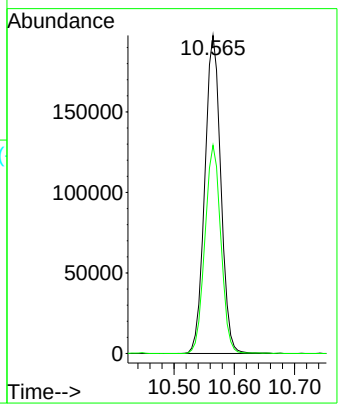


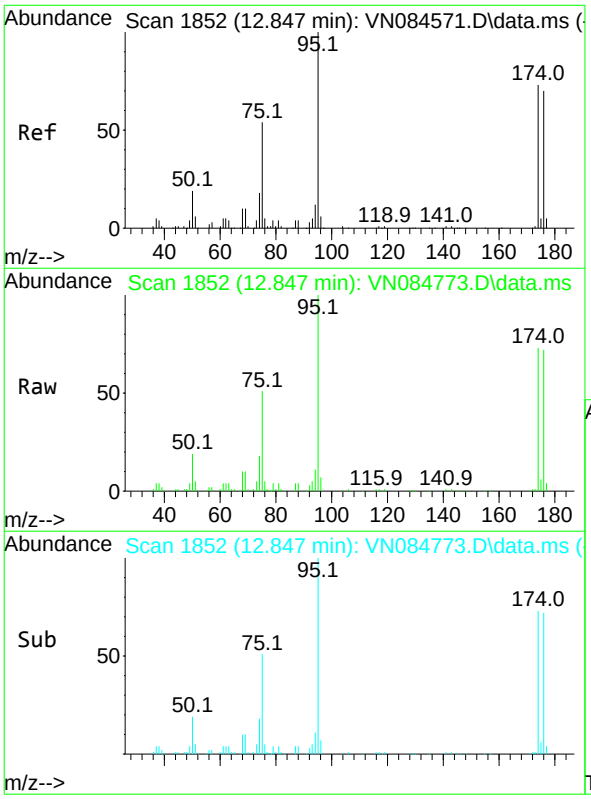
#50
Toluene-d8
Concen: 48.512 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084773.D
Acq: 11 Nov 2024 15:42

Instrument :
MSVOA_N
ClientSampleId :
WC-2(2)

Tgt Ion: 98 Resp: 364159

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1

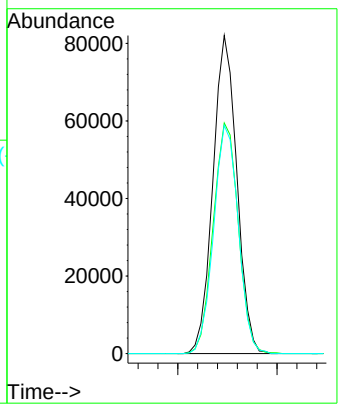


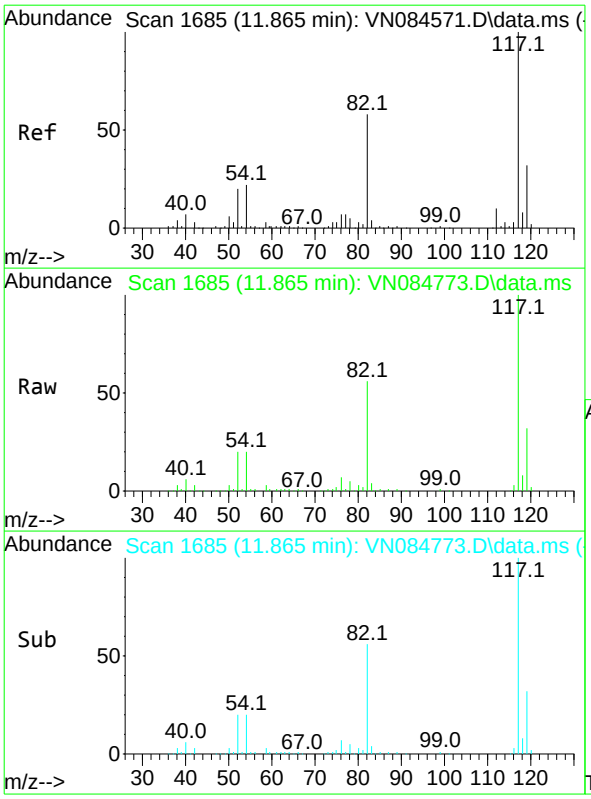


#62
4-Bromofluorobenzene
Concen: 48.972 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084773.D
Acq: 11 Nov 2024 15:42

Tgt Ion: 95 Resp: 137389

Ion	Ratio	Lower	Upper
95	100		
174	75.8	0.0	145.2
176	73.8	0.0	140.0



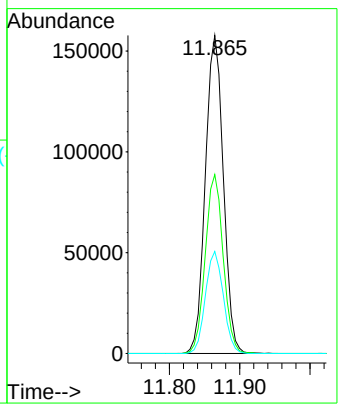


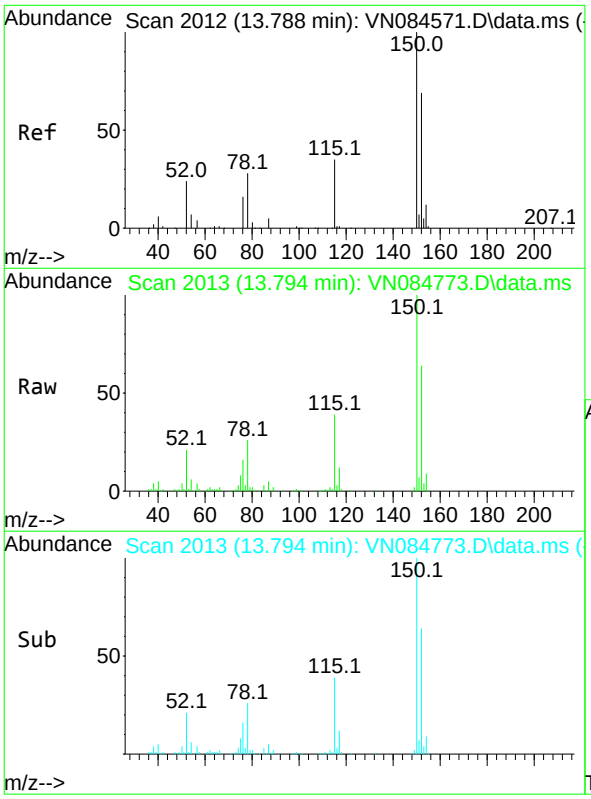
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.001 min
Lab File: VN084773.D
Acq: 11 Nov 2024 15:42

Instrument :
MSVOA_N
ClientSampleId :
WC-2(2)

Tgt Ion:117 Resp: 280468

Ion	Ratio	Lower	Upper
117	100		
82	56.2	47.2	70.8
119	32.1	25.4	38.0

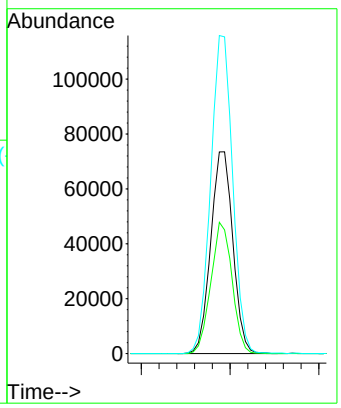




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN084773.D
Acq: 11 Nov 2024 15:42

Tgt Ion:152 Resp: 127677

Ion	Ratio	Lower	Upper
152	100		
115	62.1	31.3	93.9
150	156.4	0.0	349.8



Raw Data: **VN084774.D**

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(5)	SDG No.:	P4722
Lab Sample ID:	P4722-20	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084774.D	1		11/11/24 16:06	VN111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	11.1	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.3		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	48.2		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	48.0		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		77 - 121	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	170000	8.218			
540-36-3	1,4-Difluorobenzene	300000	9.1			
3114-55-4	Chlorobenzene-d5	275000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.788			

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

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

Sample Results: **VN084774.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084774.D
Acq On : 11 Nov 2024 16:06
Operator : JC\MD
Sample : P4722-20
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-3(5)

Quant Time: Nov 12 00:33:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

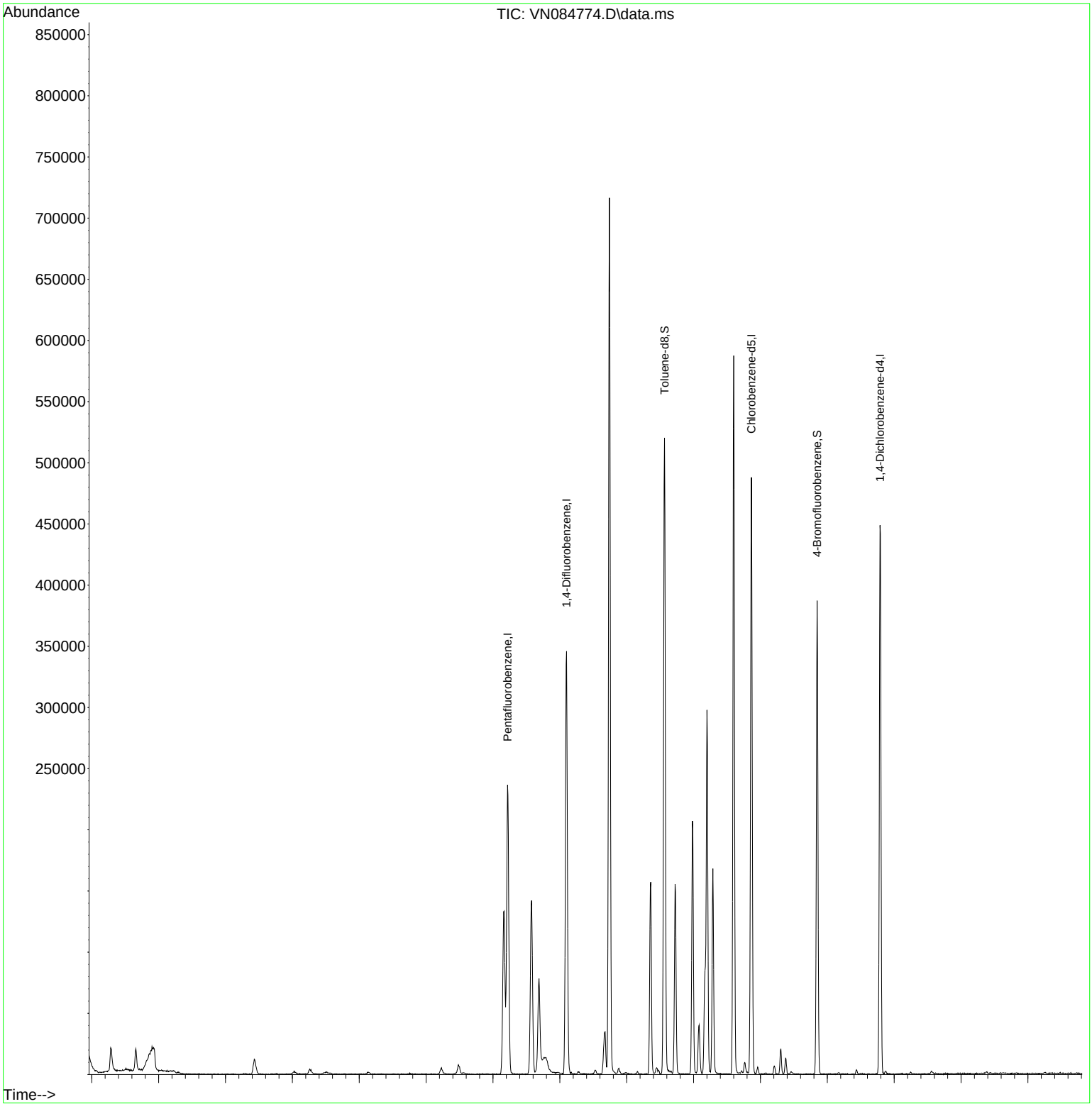
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	169890	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	299832	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275305	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126299	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120968	49.299	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.600%		
35) Dibromofluoromethane	8.165	113	97759	48.169	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.340%		
50) Toluene-d8	10.565	98	358774	47.990	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.980%		
62) 4-Bromofluorobenzene	12.847	95	134812	48.250	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.500%		
Target Compounds						Qvalue
16) Acetone	4.430	43	22989	29.922	ug/l	92
20) Methylene Chloride	5.259	84	3066	1.421	ug/l #	75
25) 2-Butanone	7.483	43	12665	11.063	ug/l	90
43) Isopropyl Acetate	8.688	43	94961	19.540	ug/l #	89

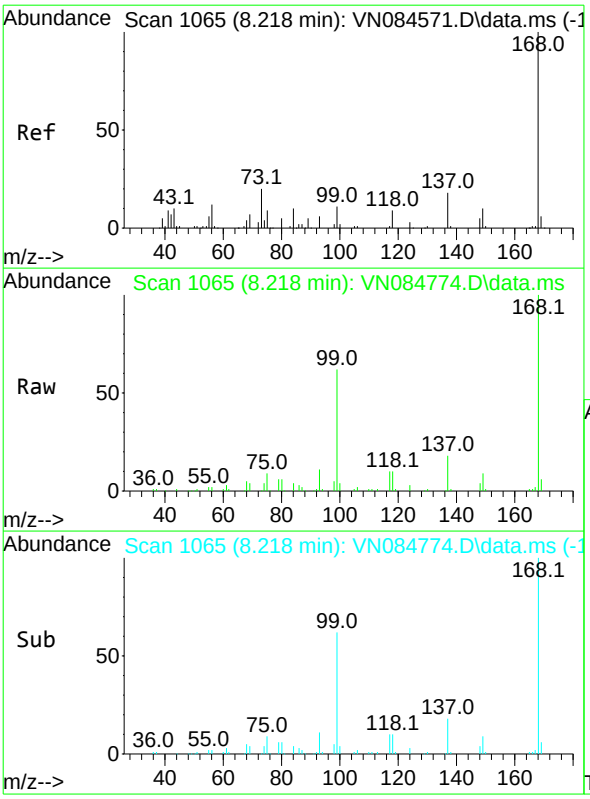
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084774.D
Acq On : 11 Nov 2024 16:06
Operator : JC\MD
Sample : P4722-20
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-3(5)

Quant Time: Nov 12 00:33:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



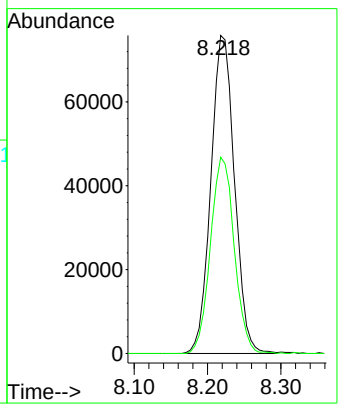


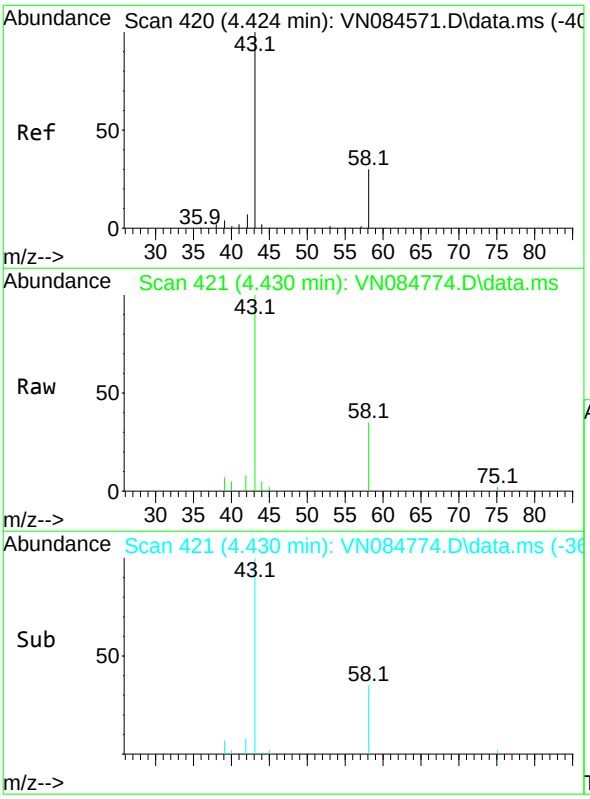
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084774.D
Acq: 11 Nov 2024 16:06

Instrument :
MSVOA_N
ClientSampleId :
WC-3(5)

Tgt Ion:168 Resp: 169890

Ion	Ratio	Lower	Upper
168	100		
99	61.7	54.2	81.2

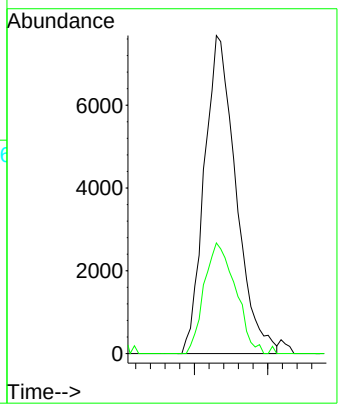


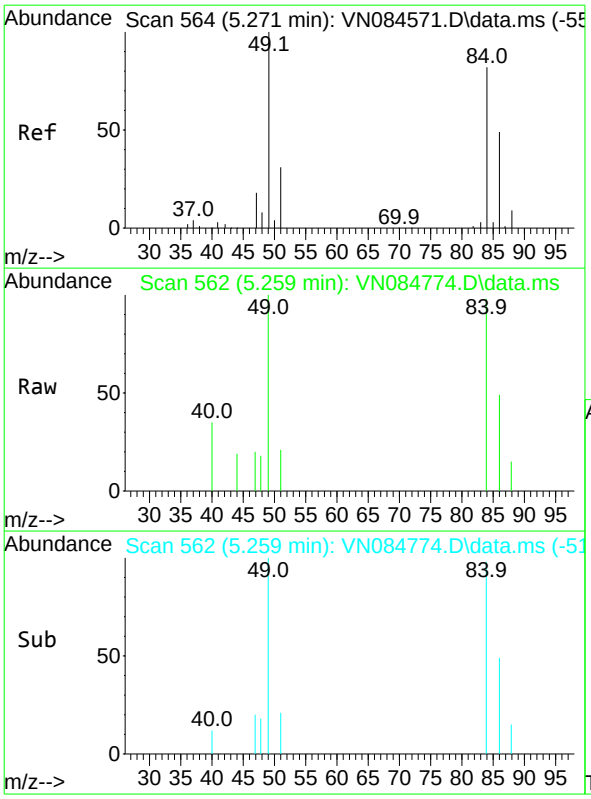


#16
Acetone
Concen: 29.922 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN084774.D
Acq: 11 Nov 2024 16:06

Tgt Ion: 43 Resp: 22989

Ion	Ratio	Lower	Upper
43	100		
58	34.8	24.4	36.6



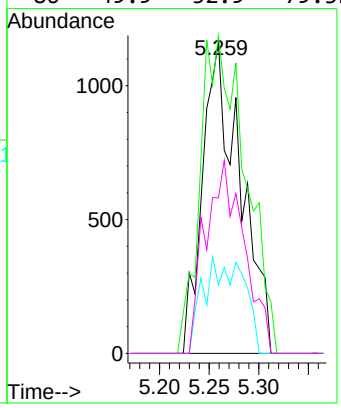


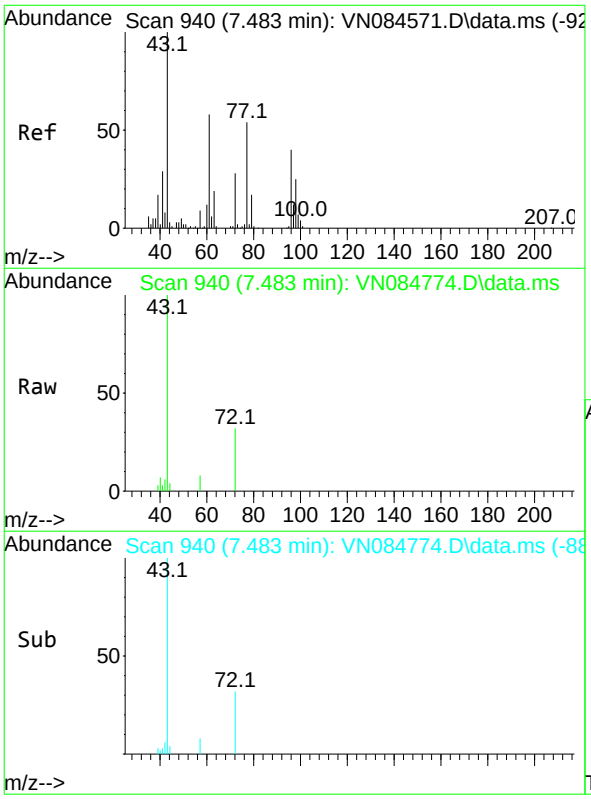
#20
Methylene Chloride
Concen: 1.421 ug/l
RT: 5.259 min Scan# 56
Delta R.T. -0.018 min
Lab File: VN084774.D
Acq: 11 Nov 2024 16:06

Instrument :
MSVOA_N
ClientSampleId :
WC-3(5)

Tgt Ion: 84 Resp: 3066

Ion	Ratio	Lower	Upper
84	100		
49	102.1	107.2	160.8#
51	21.9	31.8	47.8#
86	49.9	52.9	79.3#

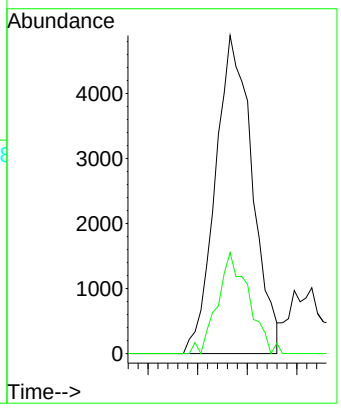


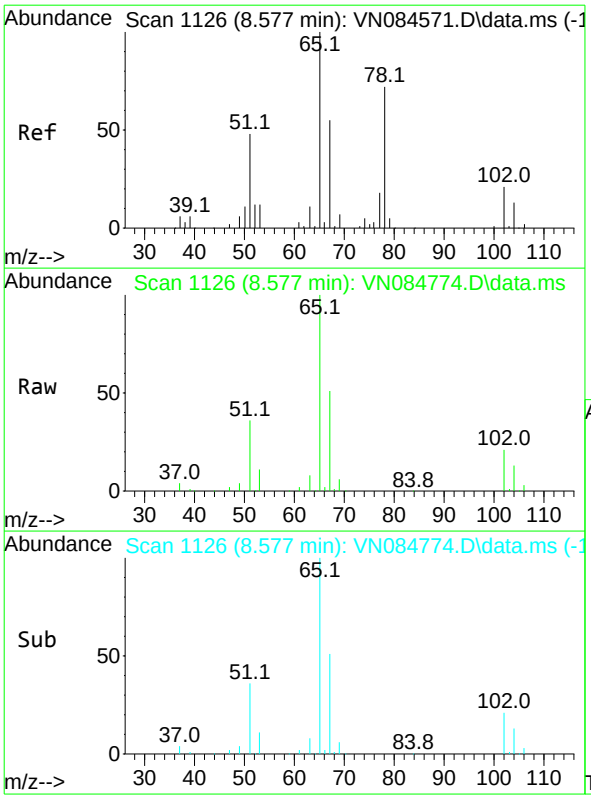


#25
2-Butanone
Concen: 11.063 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN084774.D
Acq: 11 Nov 2024 16:06

Tgt Ion: 43 Resp: 12665

Ion	Ratio	Lower	Upper
43	100		
72	31.7	21.4	32.2



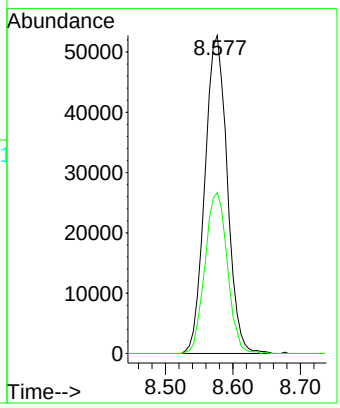


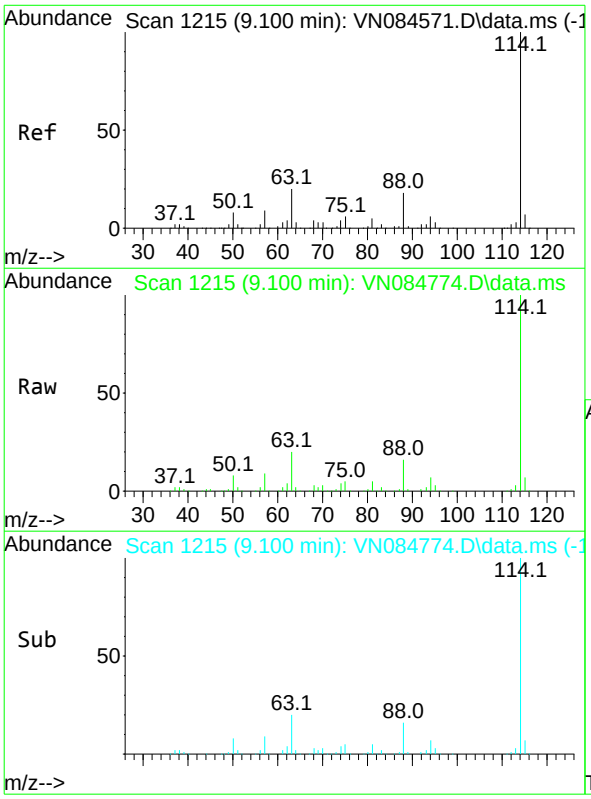
#33
1,2-Dichloroethane-d4
Concen: 49.299 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084774.D
Acq: 11 Nov 2024 16:06

Instrument :
MSVOA_N
ClientSampleId :
WC-3(5)

Tgt Ion: 65 Resp: 120968

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	102.0

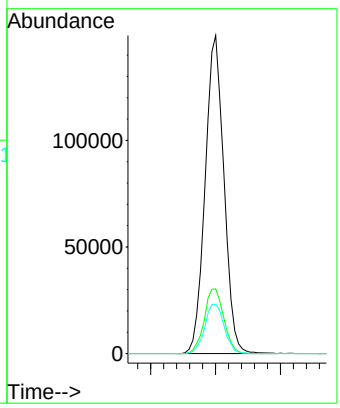


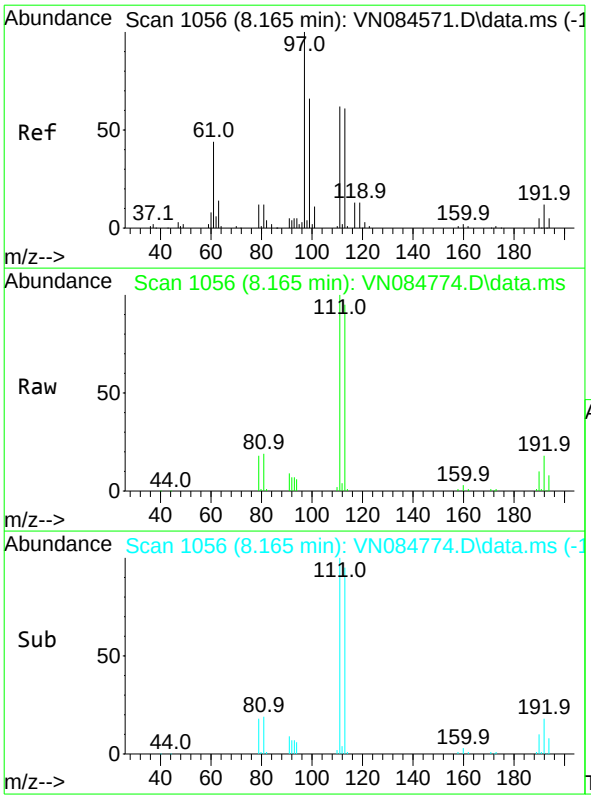


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084774.D
Acq: 11 Nov 2024 16:06

Tgt Ion:114 Resp: 299832

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	43.8
88	15.5	0.0	31.6



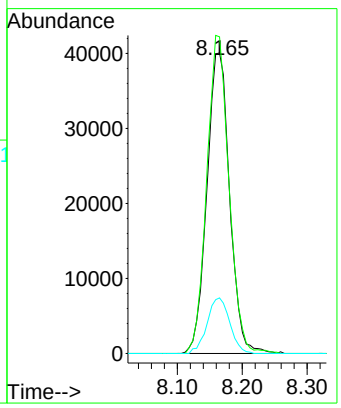


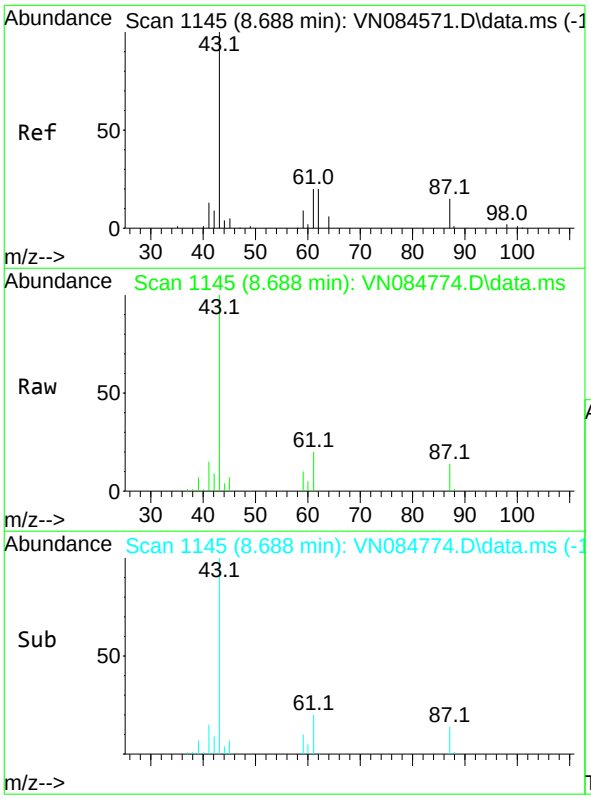
#35
Dibromofluoromethane
Concen: 48.169 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN084774.D
Acq: 11 Nov 2024 16:06

Instrument :
MSVOA_N
ClientSampleId :
WC-3(5)

Tgt Ion:113 Resp: 97759

Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.3	124.9
192	18.4	13.5	20.3

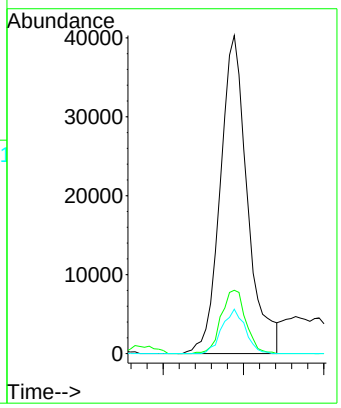


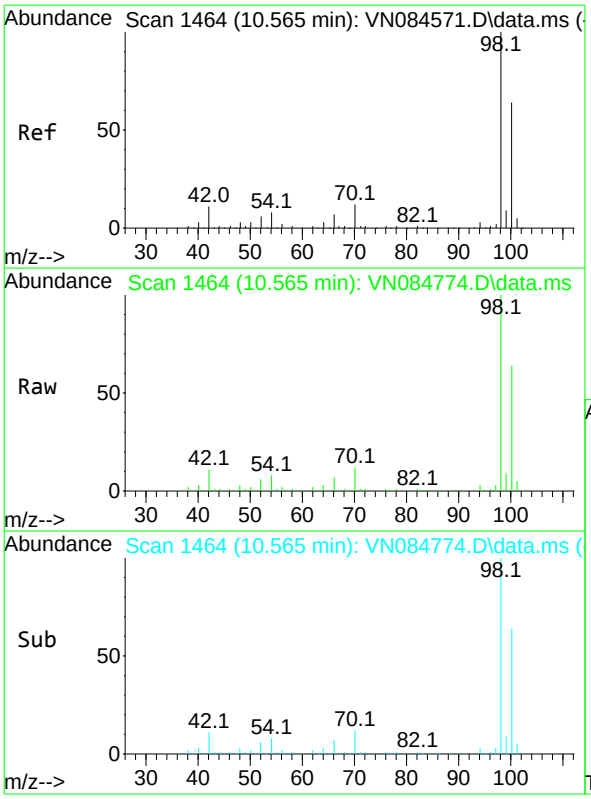


#43
Isopropyl Acetate
Concen: 19.540 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084774.D
Acq: 11 Nov 2024 16:06

Tgt Ion: 43 Resp: 94961

Ion	Ratio	Lower	Upper
43	100		
61	18.0	20.4	30.6#
87	11.9	10.3	15.5



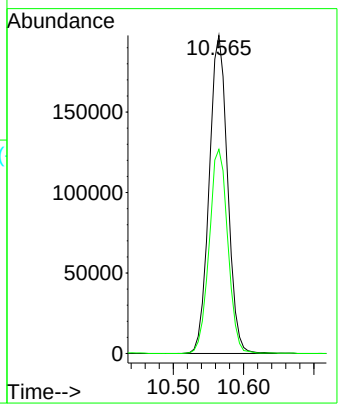


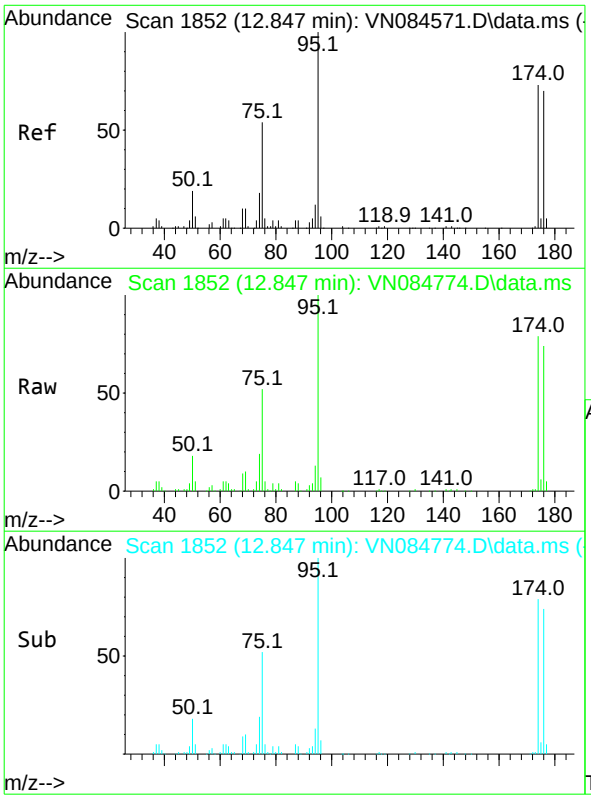
#50
Toluene-d8
Concen: 47.990 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084774.D
Acq: 11 Nov 2024 16:06

Instrument :
MSVOA_N
ClientSampleId :
WC-3(5)

Tgt Ion: 98 Resp: 358774

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.7	79.1

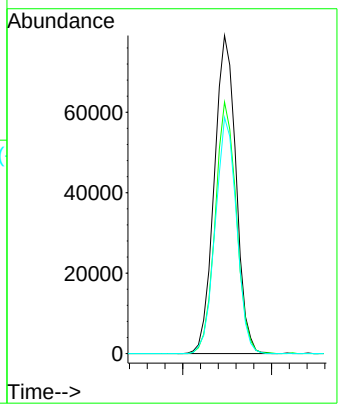


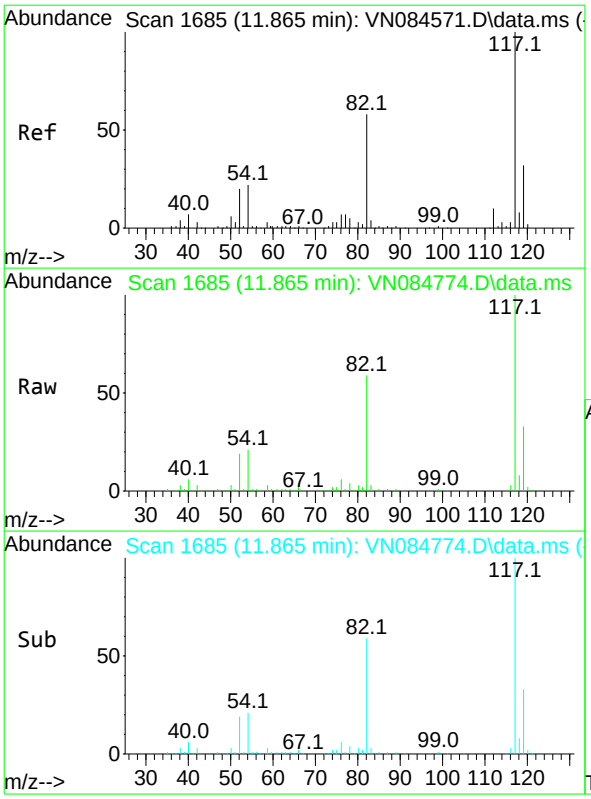


#62
4-Bromofluorobenzene
Concen: 48.250 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084774.D
Acq: 11 Nov 2024 16:06

Tgt Ion: 95 Resp: 134812

Ion	Ratio	Lower	Upper
95	100		
174	76.7	0.0	145.2
176	72.3	0.0	140.0



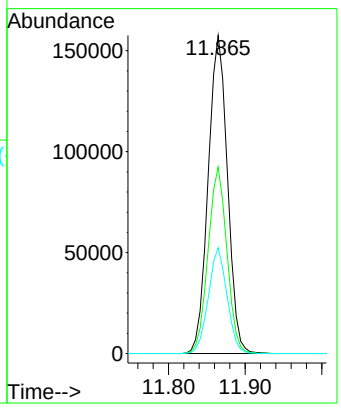


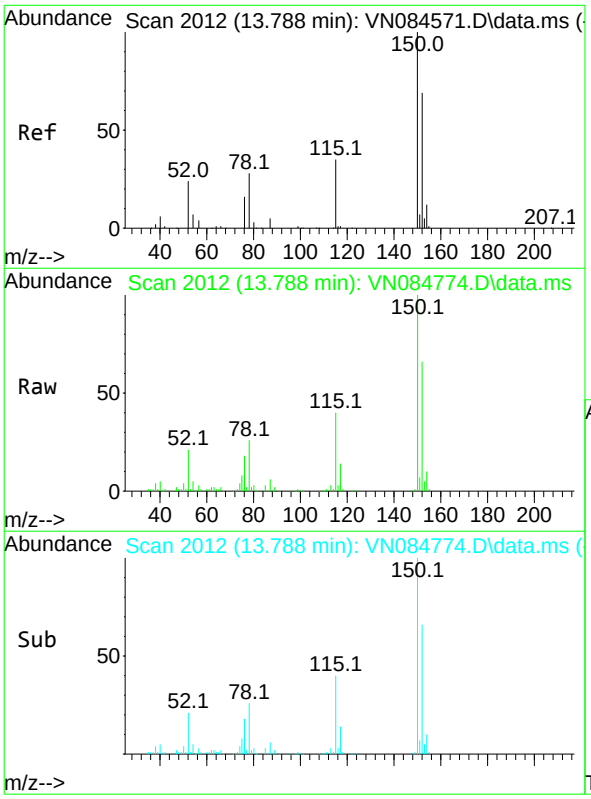
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084774.D
Acq: 11 Nov 2024 16:06

Instrument :
MSVOA_N
ClientSampleId :
WC-3(5)

Tgt Ion:117 Resp: 275305

Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.2	70.8
119	33.3	25.4	38.0

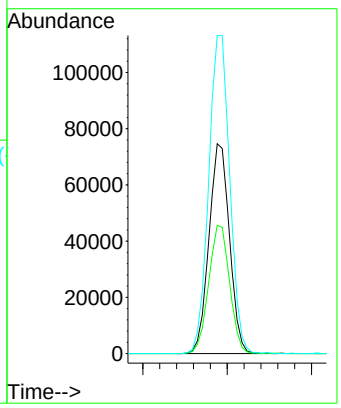




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084774.D
Acq: 11 Nov 2024 16:06

Tgt Ion:152 Resp: 126299

Ion	Ratio	Lower	Upper
152	100		
115	62.2	31.3	93.9
150	155.5	0.0	349.8



CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45

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

LAB FILE ID: RRF100 = VN084570.D RRF050 = VN084571.D RRF020 = VN084572.D
RRF010 = VN084573.D RRF005 = VN084574.D RRF001 = VN084575.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Vinyl Chloride	0.613	0.605	0.623	0.636	0.651	0.581	0.618	4
1,1-Dichloroethene	0.548	0.538	0.560	0.575	0.552	0.644	0.569	6.8
2-Butanone	0.316	0.315	0.348	0.338	0.370	0.334	0.337	6.1
Carbon Tetrachloride	0.530	0.514	0.532	0.548	0.537	0.488	0.525	4
Chloroform	1.099	1.086	1.142	1.154	1.222	1.025	1.121	6
Benzene	1.494	1.448	1.509	1.507	1.546	1.540	1.507	2.4
1,2-Dichloroethane	0.488	0.494	0.493	0.492	0.503	0.459	0.488	3.1
Trichloroethene	0.339	0.335	0.345	0.338	0.341	0.387	0.348	5.7
Tetrachloroethene	0.326	0.313	0.333	0.347	0.351	0.325	0.333	4.3
Chlorobenzene	1.068	1.061	1.149	1.123	1.165	1.146	1.119	3.9
1,2-Dichloroethane-d4	0.689	0.721	0.708	0.722	0.771		0.722	4.2
Dibromofluoromethane	0.334	0.344	0.326	0.336	0.353		0.338	3.1
Toluene-d8	1.267	1.303	1.216	1.231	1.217		1.247	3
4-Bromofluorobenzene	0.481	0.493	0.450	0.451	0.454		0.466	4.3

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

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N103024W.M
Title : SW846 8260
Last Update : Thu Oct 31 18:45:38 2024
Response Via : Initial Calibration

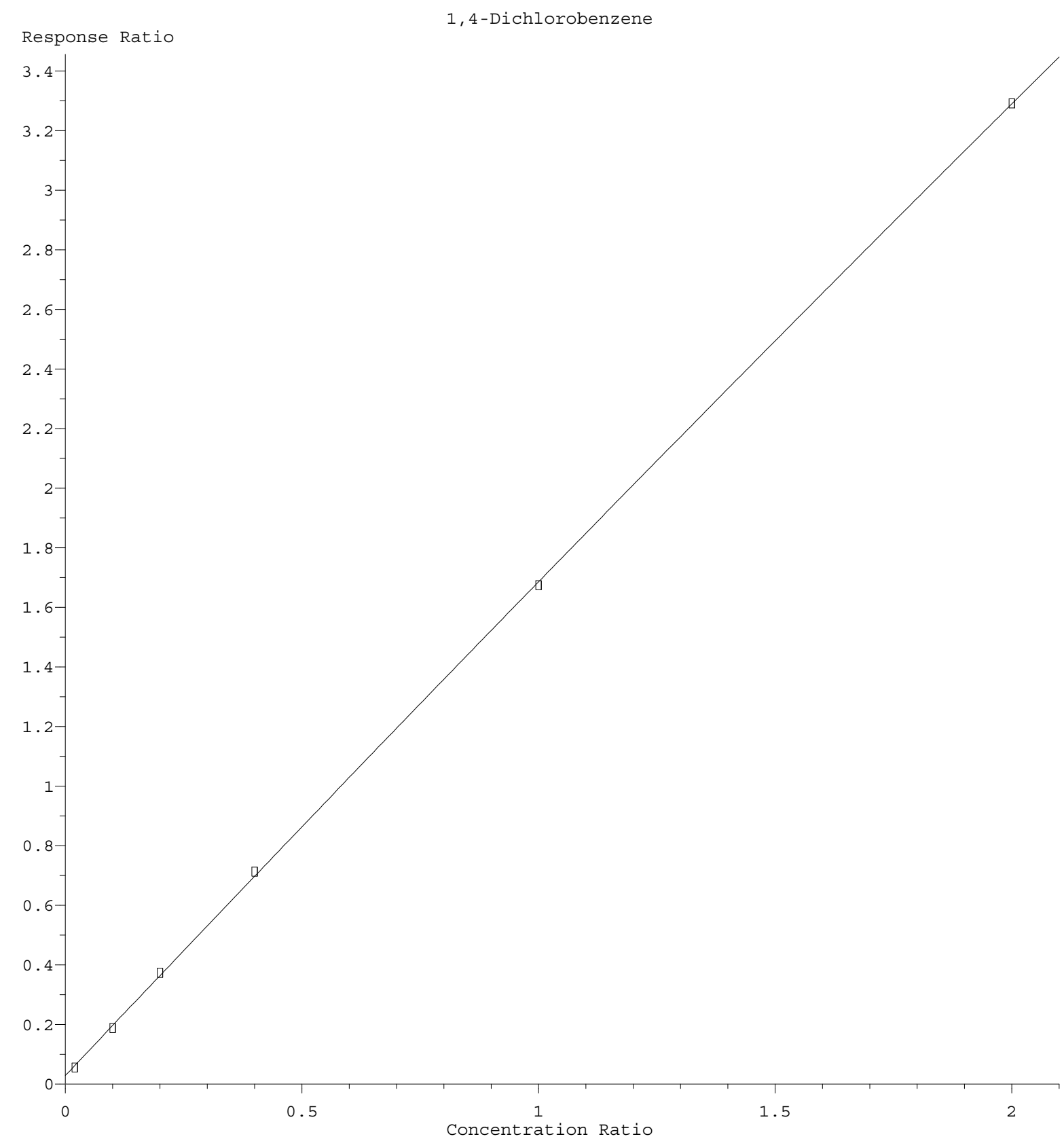
Calibration Files
1 =VN084575.D 5 =VN084574.D 10 =VN084573.D 20 =VN084572.D 50 =VN084571.D 100 =VN084570.D

		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.581	0.594	0.598	0.552	0.552	0.571	0.575	3.43
3)	P	Chloromethane	1.789	0.995	0.871	0.725	0.672	0.658	0.952	45.21
4)	C	Vinyl Chloride	0.581	0.651	0.636	0.623	0.605	0.613	0.618	3.98#
5)	T	Bromomethane		0.405	0.336	0.310	0.296	0.292	0.328	14.16
6)	T	Chloroethane	0.863	0.475	0.426	0.413	0.376	0.378	0.488	38.29
7)	T	Trichlorofluor...	1.071	1.070	1.022	1.017	0.959	0.971	1.018	4.66
8)	T	Diethyl Ether	0.358	0.371	0.364	0.359	0.353	0.351	0.359	2.08
9)	T	1,1,2-Trichlor...	0.586	0.588	0.585	0.571	0.557	0.566	0.575	2.23
10)	T	Methyl Iodide		0.817	0.800	0.764	0.736	0.728	0.769	5.08
11)	T	Tert butyl alc...		0.118	0.100	0.090	0.086	0.082	0.095	15.11
12)	CM	1,1-Dichloroet...	0.644	0.552	0.575	0.560	0.538	0.548	0.569	6.78#
13)	T	Acrolein		0.104	0.096	0.101	0.088	0.086	0.095	8.16
14)	T	Allyl chloride	0.849	0.977	0.925	0.939	0.917	0.934	0.923	4.56
15)	T	Acrylonitrile	0.263	0.294	0.282	0.282	0.271	0.264	0.276	4.42
16)	T	Acetone	0.338	0.241	0.223	0.213	0.204	0.209	0.238	21.31
17)	T	Carbon Disulfide	2.117	1.784	1.714	1.700	1.603	1.604	1.753	10.90
18)	T	Methyl Acetate	2.291	1.266	1.044	0.954	0.749	0.731	1.172	49.71
19)	T	Methyl tert-bu...	1.572	1.786	1.779	1.802	1.758	1.773	1.745	4.92
20)	T	Methylene Chlo...	0.600	0.714	0.658	0.633	0.602	0.604	0.635	7.09
21)	T	trans-1,2-Dich...	0.601	0.584	0.600	0.596	0.563	0.565	0.585	2.94
22)	T	Diisopropyl ether	1.623	1.843	1.909	1.921	1.855	1.858	1.835	5.91
23)	T	Vinyl Acetate	1.090	1.297	1.298	1.306	1.299	1.303	1.265	6.81
24)	P	1,1-Dichloroet...	1.033	1.203	1.127	1.114	1.066	1.067	1.102	5.49
25)	T	2-Butanone	0.334	0.370	0.338	0.348	0.315	0.316	0.337	6.14
26)	T	2,2-Dichloropr...	0.933	0.959	0.978	0.974	0.941	0.968	0.959	1.93
27)	T	cis-1,2-Dichlo...	0.673	0.705	0.685	0.697	0.662	0.675	0.683	2.38
28)	T	Bromochloromet...	0.429	0.408	0.415	0.388	0.511	0.483	0.439	10.79
29)	T	Tetrahydrofuran	0.197	0.236	0.234	0.231	0.222	0.221	0.224	6.52
30)	C	Chloroform	1.025	1.222	1.154	1.142	1.086	1.099	1.121	6.02#
31)	T	Cyclohexane		1.093	1.043	0.956	0.938	0.956	0.997	6.75
32)	T	1,1,1-Trichlor...	0.980	1.032	1.073	1.046	0.991	1.000	1.021	3.53
33)	S	1,2-Dichloroet...		0.771	0.722	0.708	0.721	0.689	0.722	4.20
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.353	0.336	0.326	0.344	0.334	0.338	3.07
36)	T	1,1-Dichloropr...	0.474	0.477	0.468	0.471	0.451	0.476	0.469	2.02
37)	T	Ethyl Acetate	0.410	0.466	0.404	0.429	0.422	0.424	0.426	5.14
38)	T	Carbon Tetrach...	0.488	0.537	0.548	0.532	0.514	0.530	0.525	4.04
39)	T	Methylcyclohexane	0.371	0.458	0.487	0.495	0.509	0.546	0.478	12.46
40)	TM	Benzene	1.540	1.546	1.507	1.509	1.448	1.494	1.507	2.35
41)	T	Methacrylonitrile	0.184	0.238	0.232	0.239	0.246	0.235	0.229	9.89
42)	TM	1,2-Dichloroet...	0.459	0.503	0.492	0.493	0.494	0.488	0.488	3.10
43)	T	Isopropyl Acetate	1.297	1.009	0.895	0.820	0.756	0.786	0.927	21.85
44)	TM	Trichloroethene	0.387	0.341	0.338	0.345	0.335	0.339	0.348	5.66
45)	C	1,2-Dichloropr...	0.330	0.373	0.357	0.358	0.348	0.356	0.354	3.95#
46)	T	Dibromomethane	0.247	0.260	0.244	0.257	0.244	0.245	0.250	2.89
47)	T	Bromodichlorom...	0.530	0.529	0.522	0.526	0.521	0.528	0.526	0.70
48)	T	Methyl methacr...	0.277	0.335	0.336	0.339	0.346	0.355	0.331	8.32
49)	T	1,4-Dioxane	0.005	0.006	0.006	0.006	0.006	0.006	0.006	8.90
50)	S	Toluene-d8		1.217	1.231	1.216	1.303	1.267	1.247	3.02
51)	T	4-Methyl-2-Pen...	0.344	0.412	0.417	0.416	0.423	0.424	0.406	7.59
52)	CM	Toluene	0.757	0.891	0.902	0.919	0.899	0.923	0.882	7.07#
53)	T	t-1,3-Dichloro...	0.555	0.547	0.532	0.538	0.543	0.552	0.544	1.60
54)	T	cis-1,3-Dichlo...	0.548	0.584	0.569	0.582	0.581	0.592	0.576	2.69
55)	T	1,1,2-Trichlor...	0.309	0.342	0.342	0.334	0.329	0.336	0.332	3.72

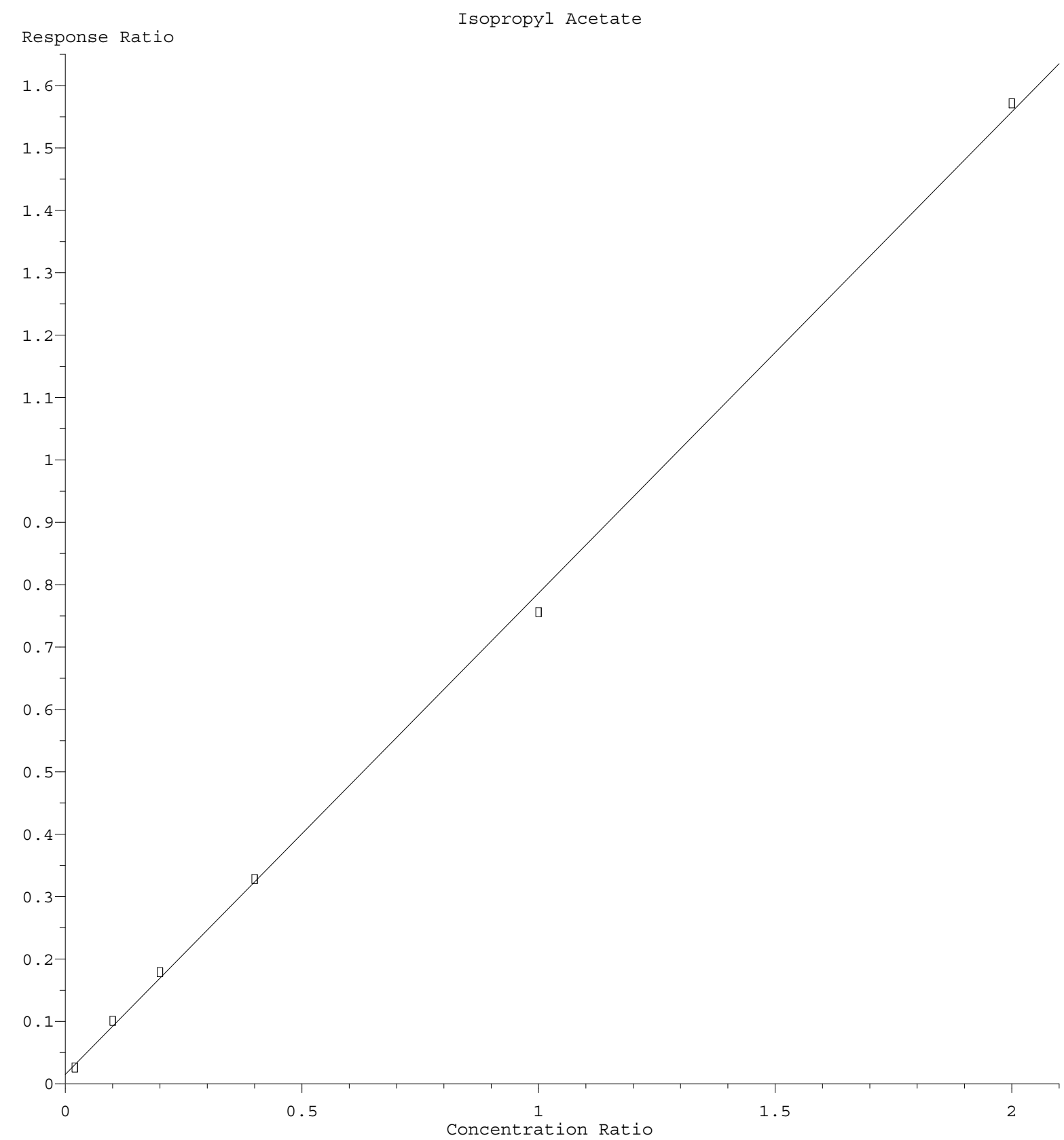
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N103024W.M

56)	T	Ethyl methacry...	0.371	0.449	0.477	0.495	0.539	0.550	0.480	13.66
57)	T	1,3-Dichloropr...	0.527	0.598	0.573	0.579	0.565	0.577	0.570	4.16
58)	T	2-Chloroethyl ...	0.167	0.202	0.214	0.229	0.262	0.275	0.225	17.62
59)	T	2-Hexanone	0.256	0.294	0.297	0.301	0.312	0.314	0.296	7.11
60)	T	Dibromochlorom...	0.312	0.377	0.393	0.391	0.394	0.404	0.378	8.92
61)	T	1,2-Dibromoethane	0.336	0.355	0.335	0.341	0.333	0.340	0.340	2.38
62)	S	4-Bromofluorob...		0.454	0.451	0.450	0.493	0.481	0.466	4.26
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.325	0.351	0.347	0.333	0.313	0.326	0.333	4.29
65)	PM	Chlorobenzene	1.146	1.164	1.123	1.149	1.061	1.068	1.119	3.93
66)	T	1,1,1,2-Tetrac...	0.399	0.404	0.390	0.392	0.375	0.375	0.389	3.01
67)	C	Ethyl Benzene	1.697	1.849	1.880	1.928	1.891	1.957	1.867	4.90#
68)	T	m/p-Xylenes	0.654	0.683	0.701	0.737	0.728	0.737	0.707	4.76
69)	T	o-Xylene	0.550	0.645	0.679	0.701	0.690	0.703	0.661	8.89
70)	T	Styrene	1.050	1.093	1.144	1.206	1.205	1.223	1.154	6.11
71)	P	Bromoform	0.286	0.302	0.289	0.298	0.295	0.287	0.293	2.26
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.188	3.402	3.605	3.701	3.570	3.558	3.504	5.21
74)	T	N-amyl acetate	1.223	1.572	1.527	1.552	1.528	1.546	1.491	8.88
75)	P	1,1,2,2-Tetrac...	1.222	1.317	1.190	1.163	1.073	1.052	1.170	8.39
76)	T	1,2,3-Trichlor...	1.246	1.013	1.020	0.958	0.887	0.873	0.999	13.58
77)	T	Bromobenzene	1.114	0.931	0.943	0.921	0.883	0.860	0.942	9.52
78)	T	n-propylbenzene	3.621	4.041	4.188	4.316	4.236	4.233	4.106	6.19
79)	T	2-Chlorotoluene	2.601	2.746	2.700	2.848	2.621	2.581	2.683	3.82
80)	T	1,3,5-Trimethy...	2.418	2.765	3.038	3.099	3.068	3.037	2.904	9.19
81)	T	trans-1,4-Dich...		0.431	0.446	0.423	0.401	0.406	0.421	4.33
82)	T	4-Chlorotoluene	3.049	2.848	2.822	2.838	2.716	2.667	2.823	4.70
83)	T	tert-Butylbenzene	1.893	2.271	2.461	2.648	2.531	2.617	2.403	11.81
84)	T	1,2,4-Trimethy...	2.579	2.766	3.075	3.265	3.148	3.151	2.997	8.86
85)	T	sec-Butylbenzene	2.962	3.145	3.517	3.608	3.538	3.600	3.395	8.04
86)	T	p-Isopropyltol...	2.218	2.518	2.843	3.003	3.050	3.075	2.784	12.43
87)	T	1,3-Dichlorobe...	2.264	1.884	1.802	1.770	1.668	1.642	1.838	12.33
88)	T	1,4-Dichlorobe...	2.773	1.879	1.867	1.782	1.674	1.646	1.937	21.72
89)	T	n-Butylbenzene	2.747	2.454	2.457	2.623	2.619	2.728	2.605	4.88
90)	T	Hexachloroethane	0.681	0.626	0.633	0.617	0.589	0.578	0.621	5.88
91)	T	1,2-Dichlorobe...	2.021	1.879	1.732	1.748	1.618	1.601	1.766	9.07
92)	T	1,2-Dibromo-3-...	0.272	0.274	0.226	0.229	0.217	0.204	0.237	12.28
93)	T	1,2,4-Trichlor...	1.353	0.956	0.881	0.895	0.865	0.852	0.967	19.90
94)	T	Hexachlorobuta...	0.551	0.438	0.403	0.426	0.369	0.359	0.425	16.33
95)	T	Naphthalene	3.355	2.788	2.710	2.953	2.780	2.778	2.894	8.29
96)	T	1,2,3-Trichlor...	1.189	0.939	0.877	0.953	0.841	0.832	0.939	14.09

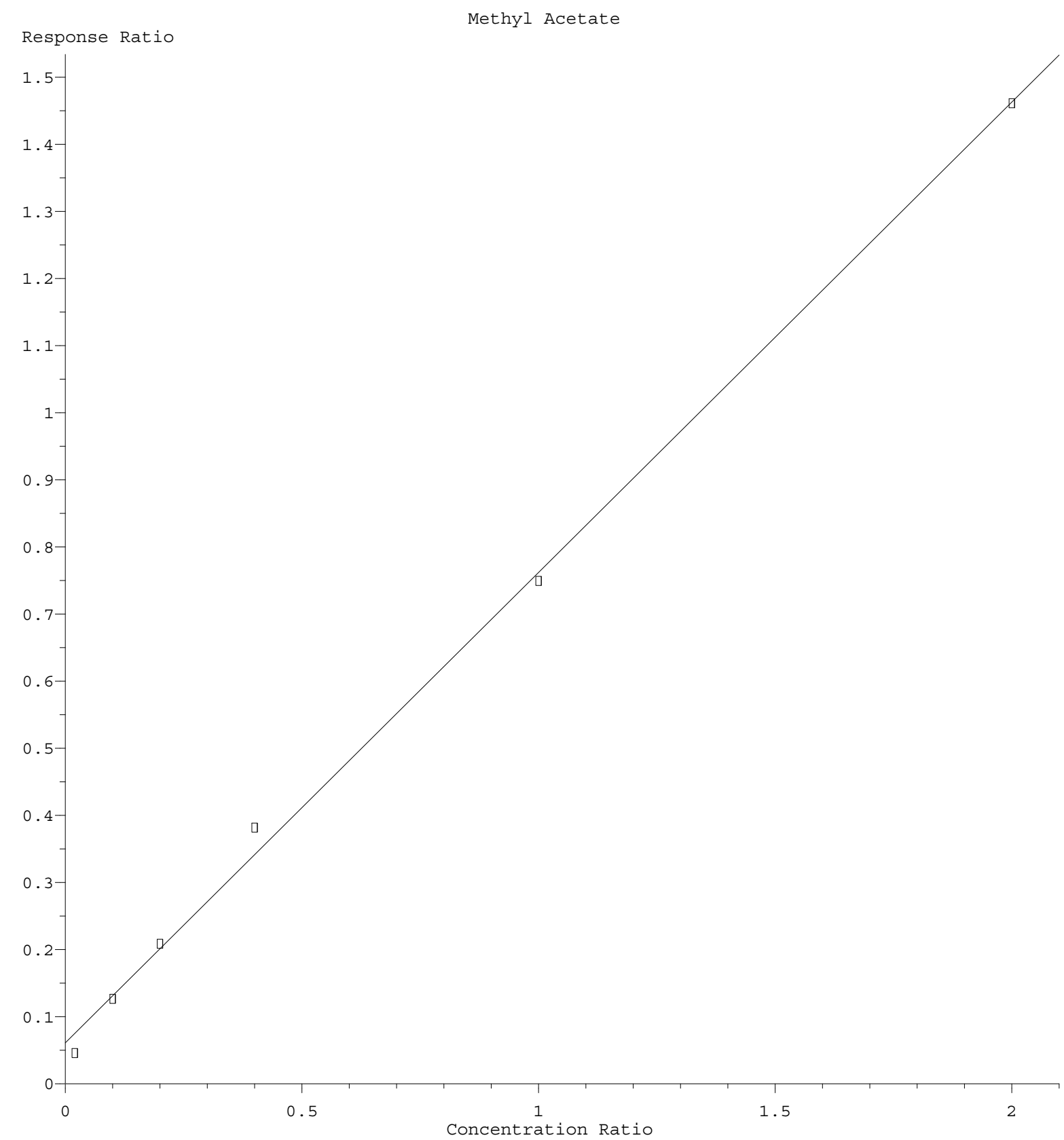
(#) = Out of Range



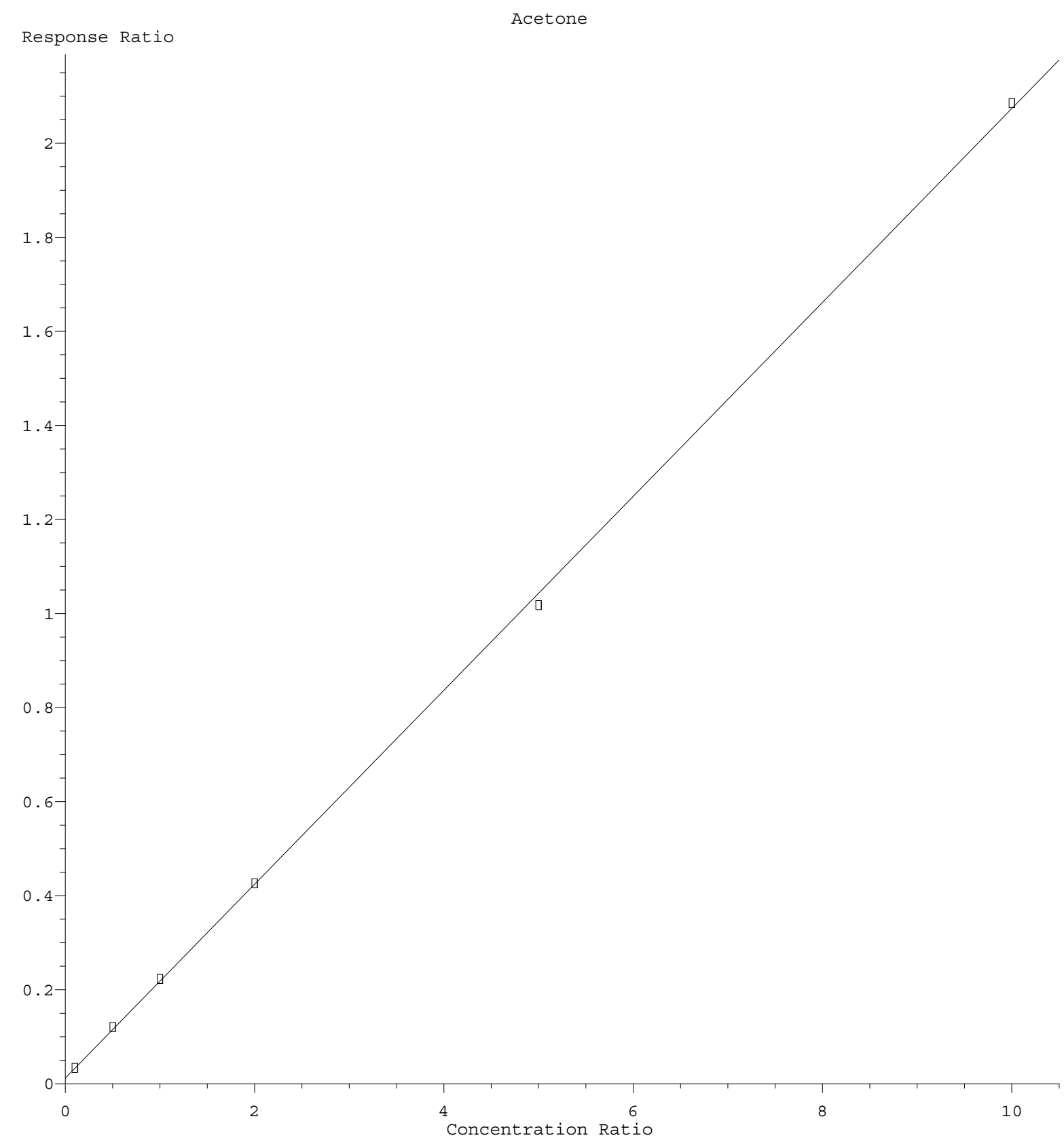
R = -2.647e-002 A*A + 1.683e+000 A + 2.851e-002
Coef of Det (r^2) = 0.999927 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



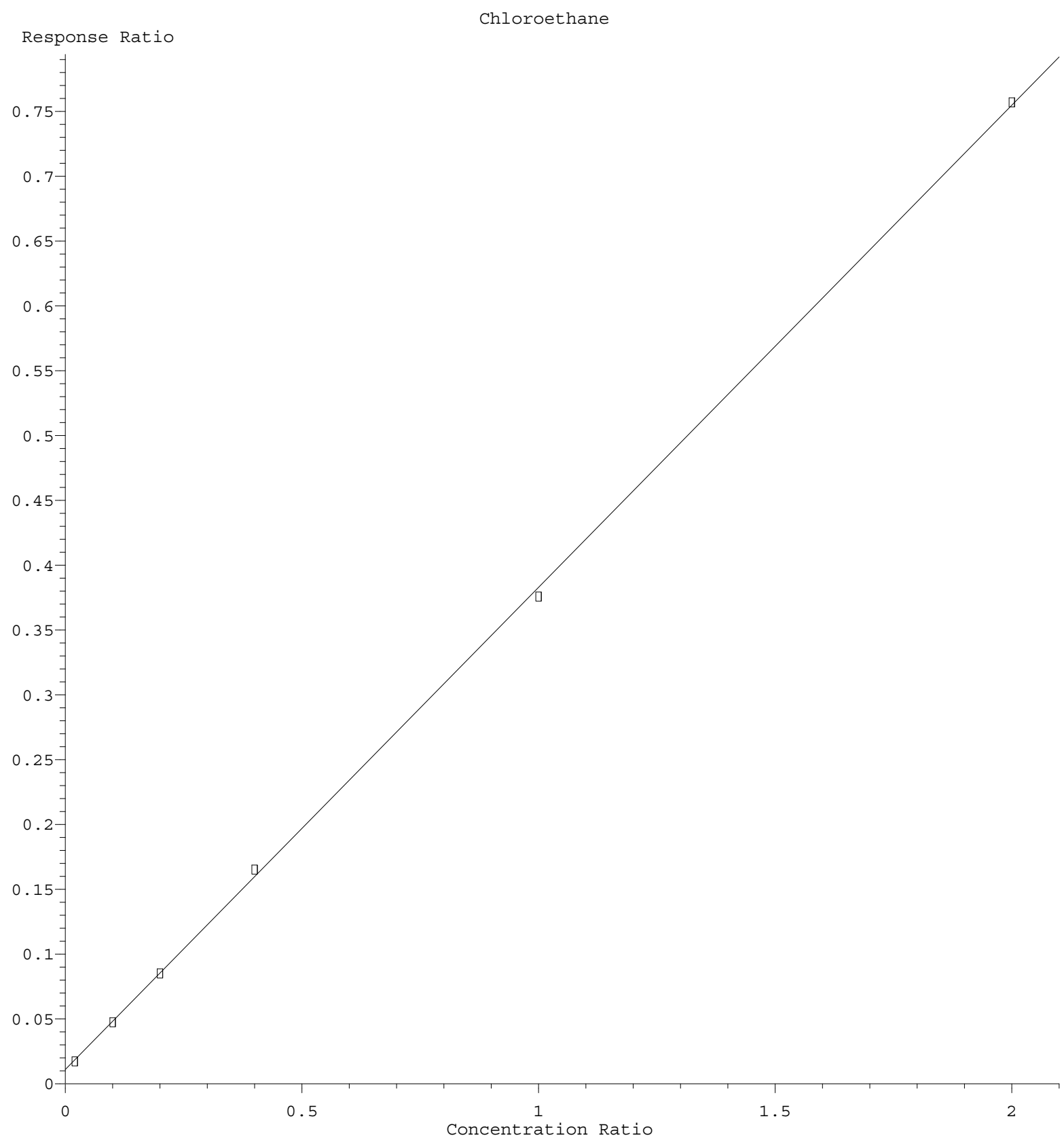
Response = 7.716e-001 * Amt + 1.519e-002
Coef of Det (r^2) = 0.999234 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



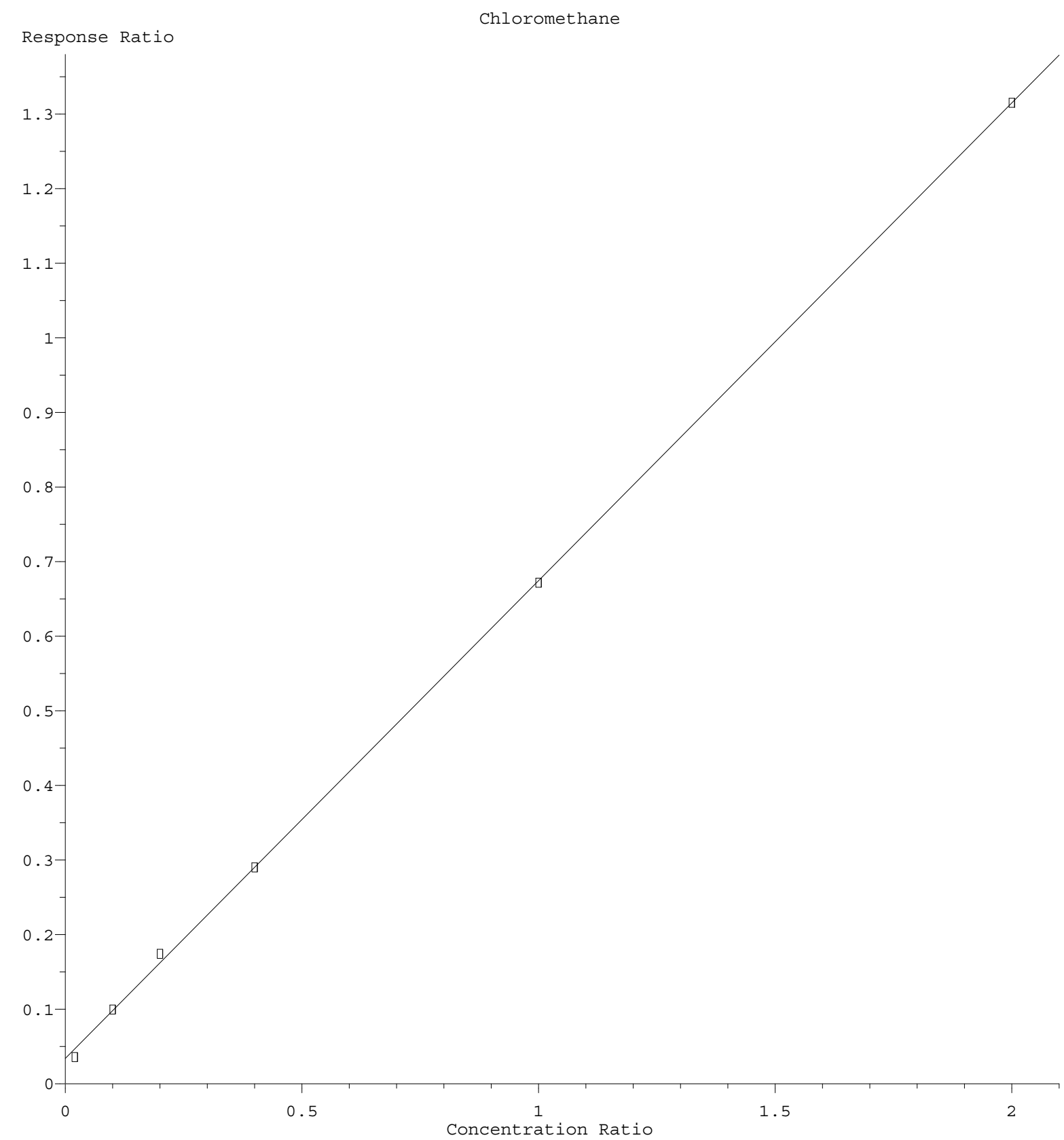
Response = 7.012e-001 * Amt + 6.084e-002
Coef of Det (r^2) = 0.998099 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



Response = 2.062e-001 * Amt + 1.190e-002
Coef of Det (r^2) = 0.999735 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



Response = 3.720e-001 * Amt + 1.067e-002
Coef of Det (r^2) = 0.999785 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024



Response = 6.405e-001 * Amt + 3.399e-002
Coef of Det (r^2) = 0.999766 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	187429	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	309230	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	282514	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	142702	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	258269	95.404	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 190.800%#			
35) Dibromofluoromethane	8.165	113	206417	98.617	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 197.240%#			
50) Toluene-d8	10.565	98	783727	101.646	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 203.300%#			
62) 4-Bromofluorobenzene	12.847	95	297647	103.292	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 206.580%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	214094	99.364	ug/l	93
3) Chloromethane	2.359	50	246492	100.015	ug/l	97
4) Vinyl Chloride	2.512	62	229760	99.144	ug/l	99
5) Bromomethane	2.901	94	109436	89.128	ug/l	97
6) Chloroethane	3.071	64	141883	100.310	ug/l	98
7) Trichlorofluoromethane	3.465	101	363937	95.335	ug/l	100
8) Diethyl Ether	3.953	74	131399	97.575	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.347	101	212244	98.394	ug/l	99
10) Methyl Iodide	4.577	142	272990	94.692	ug/l	96
11) Tert butyl alcohol	5.547	59	153595	429.840	ug/l	100
12) 1,1-Dichloroethene	4.324	96	205332	96.200	ug/l	98
13) Acrolein	4.171	56	161607	453.545	ug/l	100
14) Allyl chloride	5.012	41	350014	101.116	ug/l	92
15) Acrylonitrile	5.712	53	494070	477.613	ug/l	100
16) Acetone	4.424	43	390888	502.753	ug/l	98
17) Carbon Disulfide	4.700	76	601202	91.464	ug/l	99
18) Methyl Acetate	5.018	43	273870	99.857	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	664800	101.618	ug/l	99
20) Methylene Chloride	5.271	84	226231	95.017	ug/l	90
21) trans-1,2-Dichloroethene	5.777	96	211649	96.569	ug/l	93
22) Diisopropyl ether	6.665	45	696527	101.268	ug/l	99
23) Vinyl Acetate	6.600	43	2441301	514.697	ug/l	99
24) 1,1-Dichloroethane	6.559	63	399999	96.866	ug/l	98
25) 2-Butanone	7.483	43	591863	468.634	ug/l	98
26) 2,2-Dichloropropane	7.483	77	362927	100.979	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	252932	98.835	ug/l	96
28) Bromochloromethane	7.812	49	180881	109.944	ug/l	96
29) Tetrahydrofuran	7.835	42	415033	495.347	ug/l	97
30) Chloroform	7.959	83	412084	98.045	ug/l	100
31) Cyclohexane	8.253	56	358350	95.881	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	374940	98.012	ug/l	98
36) 1,1-Dichloropropene	8.365	75	294131	101.323	ug/l	99
37) Ethyl Acetate	7.559	43	262200	99.553	ug/l	98
38) Carbon Tetrachloride	8.359	117	327651	100.981	ug/l	98
39) Methylcyclohexane	9.600	83	337677	114.344	ug/l	97
40) Benzene	8.600	78	924038	99.119	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	145041	102.406 ug/l	95
42) 1,2-Dichloroethane	8.665	62	301932	100.005 ug/l	100
43) Isopropyl Acetate	8.688	43	485962	100.857 ug/l	99
44) Trichloroethene	9.347	130	209438	97.413 ug/l	98
45) 1,2-Dichloropropane	9.618	63	220258	100.718 ug/l	95
46) Dibromomethane	9.706	93	151661	98.281 ug/l	98
47) Bromodichloromethane	9.888	83	326466	100.364 ug/l #	96
48) Methyl methacrylate	9.677	41	219838	107.249 ug/l	98
49) 1,4-Dioxane	9.694	88	76189	2097.505 ug/l #	80
51) 4-Methyl-2-Pentanone	10.447	43	1312148	522.607 ug/l	99
52) Toluene	10.629	92	570832	104.696 ug/l	100
53) t-1,3-Dichloropropene	10.835	75	341196	101.334 ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	366358	102.804 ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	207689	101.124 ug/l	97
56) Ethyl methacrylate	10.871	69	340367	114.573 ug/l	97
57) 1,3-Dichloropropane	11.165	76	357131	101.320 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	849817	611.330 ug/l	98
59) 2-Hexanone	11.194	43	971064	531.346 ug/l	97
60) Dibromochloromethane	11.359	129	249733	106.691 ug/l	99
61) 1,2-Dibromoethane	11.471	107	210043	99.870 ug/l	100
64) Tetrachloroethene	11.100	164	184478	98.169 ug/l	96
65) Chlorobenzene	11.888	112	603595	95.500 ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	212055	96.458 ug/l	99
67) Ethyl Benzene	11.965	91	1106035	104.837 ug/l	99
68) m/p-Xylenes	12.070	106	832448	208.419 ug/l	99
69) o-Xylene	12.400	106	397449	106.372 ug/l	100
70) Styrene	12.412	104	691175	106.042 ug/l	98
71) Bromoform	12.582	173	162189	98.044 ug/l #	97
73) Isopropylbenzene	12.694	105	1015352	101.533 ug/l	100
74) N-amyl acetate	12.494	43	441232	103.666 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	300162	89.924 ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	249062m	88.446 ug/l	
77) Bromobenzene	12.982	156	245558	91.341 ug/l	94
78) n-propylbenzene	13.035	91	1208185	103.100 ug/l	98
79) 2-Chlorotoluene	13.123	91	736738	96.217 ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	866736	104.573 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	115847	96.347 ug/l	98
82) 4-Chlorotoluene	13.217	91	761196	94.462 ug/l	99
83) tert-Butylbenzene	13.435	119	746926	108.888 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	899374	105.136 ug/l	99
85) sec-Butylbenzene	13.617	105	1027413	106.032 ug/l	99
86) p-Isopropyltoluene	13.729	119	877717	110.451 ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	468620	89.320 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	469714	100.067 ug/l	98
89) n-Butylbenzene	14.053	91	778487	104.727 ug/l	100
90) Hexachloroethane	14.335	117	165030	93.123 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	456925	90.631 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	58247	86.136 ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	243087	88.091 ug/l	99
94) Hexachlorobutadiene	15.500	225	102558	84.631 ug/l	99
95) Naphthalene	15.641	128	792903	95.997 ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	237515	88.667 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

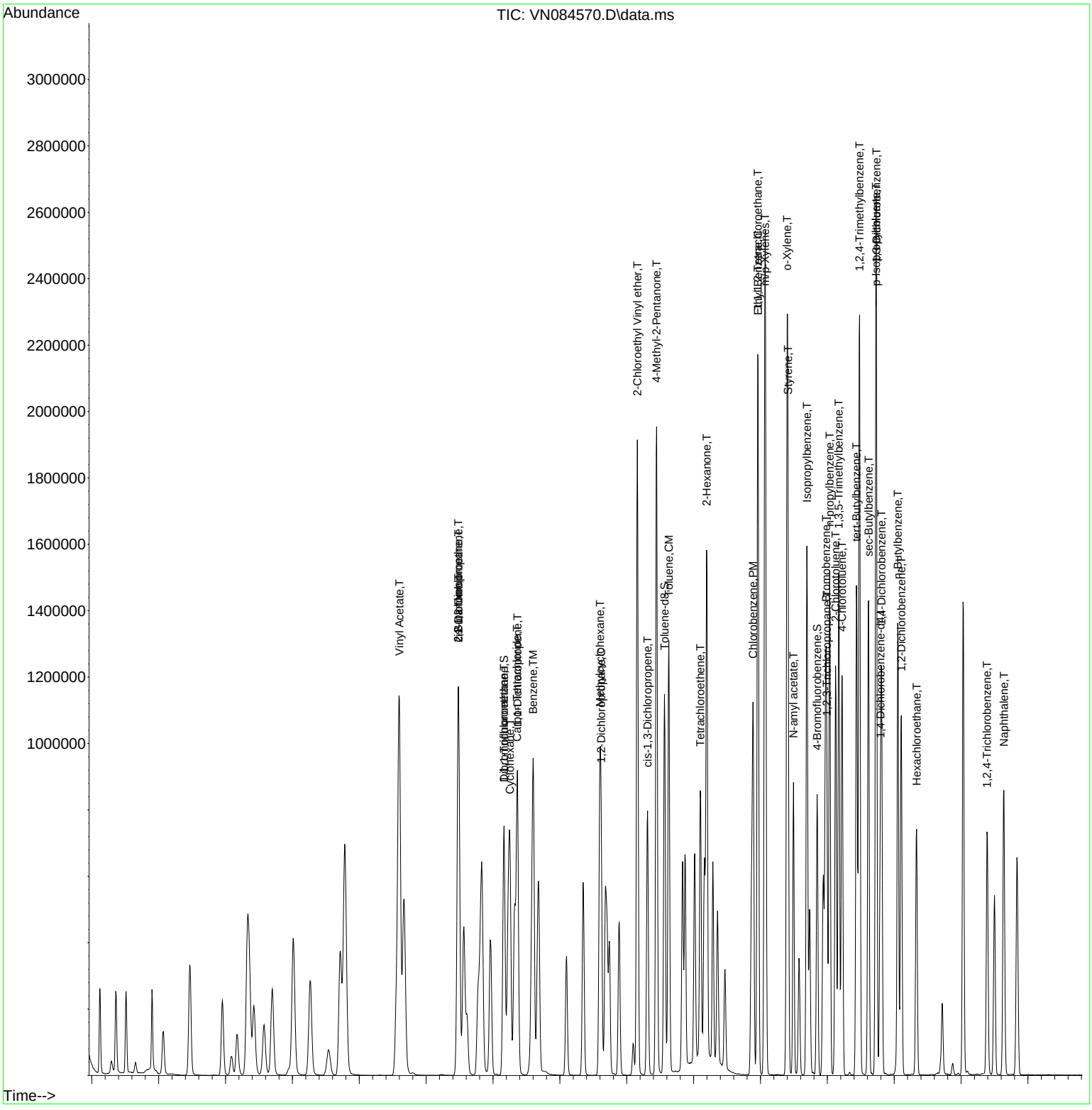
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	186594	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	311554	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	279228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138307	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134521	49.914	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.820%			
35) Dibromofluoromethane	8.165	113	107131	50.801	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.600%			
50) Toluene-d8	10.565	98	405874	52.247	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.500%			
62) 4-Bromofluorobenzene	12.847	95	153622	52.913	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.820%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	103092	48.061	ug/l	97
3) Chloromethane	2.365	50	125344	49.788	ug/l	95
4) Vinyl Chloride	2.512	62	112961	48.962	ug/l	95
5) Bromomethane	2.901	94	55194	45.153	ug/l	100
6) Chloroethane	3.071	64	70126	49.078	ug/l	96
7) Trichlorofluoromethane	3.471	101	178947	47.086	ug/l	97
8) Diethyl Ether	3.953	74	65946	49.190	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	103864	48.366	ug/l	98
10) Methyl Iodide	4.583	142	137274	47.829	ug/l	97
11) Tert butyl alcohol	5.536	59	80598	226.565	ug/l	100
12) 1,1-Dichloroethene	4.324	96	100445	47.270	ug/l	96
13) Acrolein	4.171	56	82129	231.524	ug/l	99
14) Allyl chloride	5.012	41	171045	49.635	ug/l	92
15) Acrylonitrile	5.718	53	252853	245.525	ug/l	98
16) Acetone	4.424	43	189949	243.925	ug/l	99
17) Carbon Disulfide	4.700	76	299041	45.698	ug/l	99
18) Methyl Acetate	5.024	43	139826	49.097	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	328099	50.376	ug/l	97
20) Methylene Chloride	5.271	84	112282	47.370	ug/l	92
21) trans-1,2-Dichloroethene	5.777	96	105050	48.146	ug/l	96
22) Diisopropyl ether	6.671	45	346126	50.549	ug/l	98
23) Vinyl Acetate	6.600	43	1212022	256.673	ug/l	99
24) 1,1-Dichloroethane	6.559	63	198817	48.362	ug/l	100
25) 2-Butanone	7.483	43	294207	233.994	ug/l	98
26) 2,2-Dichloropropane	7.483	77	175511	49.052	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	123436	48.450	ug/l	97
28) Bromochloromethane	7.812	49	95269	58.166	ug/l	95
29) Tetrahydrofuran	7.835	42	206980	248.139	ug/l	97
30) Chloroform	7.965	83	202589	48.417	ug/l	98
31) Cyclohexane	8.253	56	175038	47.043	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	184986	48.573	ug/l	98
36) 1,1-Dichloropropene	8.365	75	140593	48.071	ug/l	99
37) Ethyl Acetate	7.553	43	131332	49.493	ug/l	99
38) Carbon Tetrachloride	8.359	117	160134	48.985	ug/l	97
39) Methylcyclohexane	9.600	83	158489	53.267	ug/l	99
40) Benzene	8.600	78	451074	48.024	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	76791	53.814 ug/l	97
42) 1,2-Dichloroethane	8.665	62	153960	50.614 ug/l	100
43) Isopropyl Acetate	8.688	43	235517	48.004 ug/l	99
44) Trichloroethene	9.353	130	104498	48.241 ug/l	98
45) 1,2-Dichloropropane	9.618	63	108302	49.154 ug/l	95
46) Dibromomethane	9.706	93	76019	48.895 ug/l	97
47) Bromodichloromethane	9.888	83	162307	49.525 ug/l	97
48) Methyl methacrylate	9.677	41	107828	52.212 ug/l	98
49) 1,4-Dioxane	9.694	88	37719	1030.669 ug/l #	82
51) 4-Methyl-2-Pentanone	10.447	43	658351	260.254 ug/l	98
52) Toluene	10.629	92	280034	50.978 ug/l	99
53) t-1,3-Dichloropropene	10.835	75	169085	49.843 ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	180909	50.386 ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	102401	49.487 ug/l	98
56) Ethyl methacrylate	10.871	69	168060	56.150 ug/l	96
57) 1,3-Dichloropropane	11.159	76	175929	49.539 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	407857	291.210 ug/l	97
59) 2-Hexanone	11.194	43	485391	263.615 ug/l	98
60) Dibromochloromethane	11.359	129	122816	52.078 ug/l	98
61) 1,2-Dibromoethane	11.465	107	103901	49.034 ug/l	98
64) Tetrachloroethene	11.100	164	87457	47.088 ug/l	96
65) Chlorobenzene	11.888	112	296199	47.416 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	104844	48.252 ug/l	99
67) Ethyl Benzene	11.965	91	528107	50.646 ug/l	100
68) m/p-Xylenes	12.070	106	406816	103.053 ug/l	98
69) o-Xylene	12.394	106	192710	52.183 ug/l	99
70) Styrene	12.412	104	336570	52.245 ug/l	99
71) Bromoform	12.576	173	82245	50.303 ug/l #	99
73) Isopropylbenzene	12.694	105	493742	50.942 ug/l	99
74) N-amyl acetate	12.494	43	211326	51.228 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	148441	45.884 ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	122649m	44.939 ug/l	
77) Bromobenzene	12.982	156	122062	46.847 ug/l	95
78) n-propylbenzene	13.035	91	585903	51.587 ug/l	100
79) 2-Chlorotoluene	13.123	91	362526	48.850 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	424332	52.823 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	55485	47.612 ug/l	92
82) 4-Chlorotoluene	13.217	91	375636	48.097 ug/l	99
83) tert-Butylbenzene	13.435	119	350031	52.649 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	435421	52.518 ug/l	99
85) sec-Butylbenzene	13.612	105	489305	52.102 ug/l	100
86) p-Isopropyltoluene	13.729	119	421834	54.770 ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	230686	45.366 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	231568	49.658 ug/l	98
89) n-Butylbenzene	14.053	91	362215	50.276 ug/l	99
90) Hexachloroethane	14.335	117	81515	47.459 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	223772	45.796 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.711	75	29987	45.754 ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	119579	44.711 ug/l	99
94) Hexachlorobutadiene	15.500	225	51033	43.451 ug/l	98
95) Naphthalene	15.635	128	384553	48.037 ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	116341	44.812 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

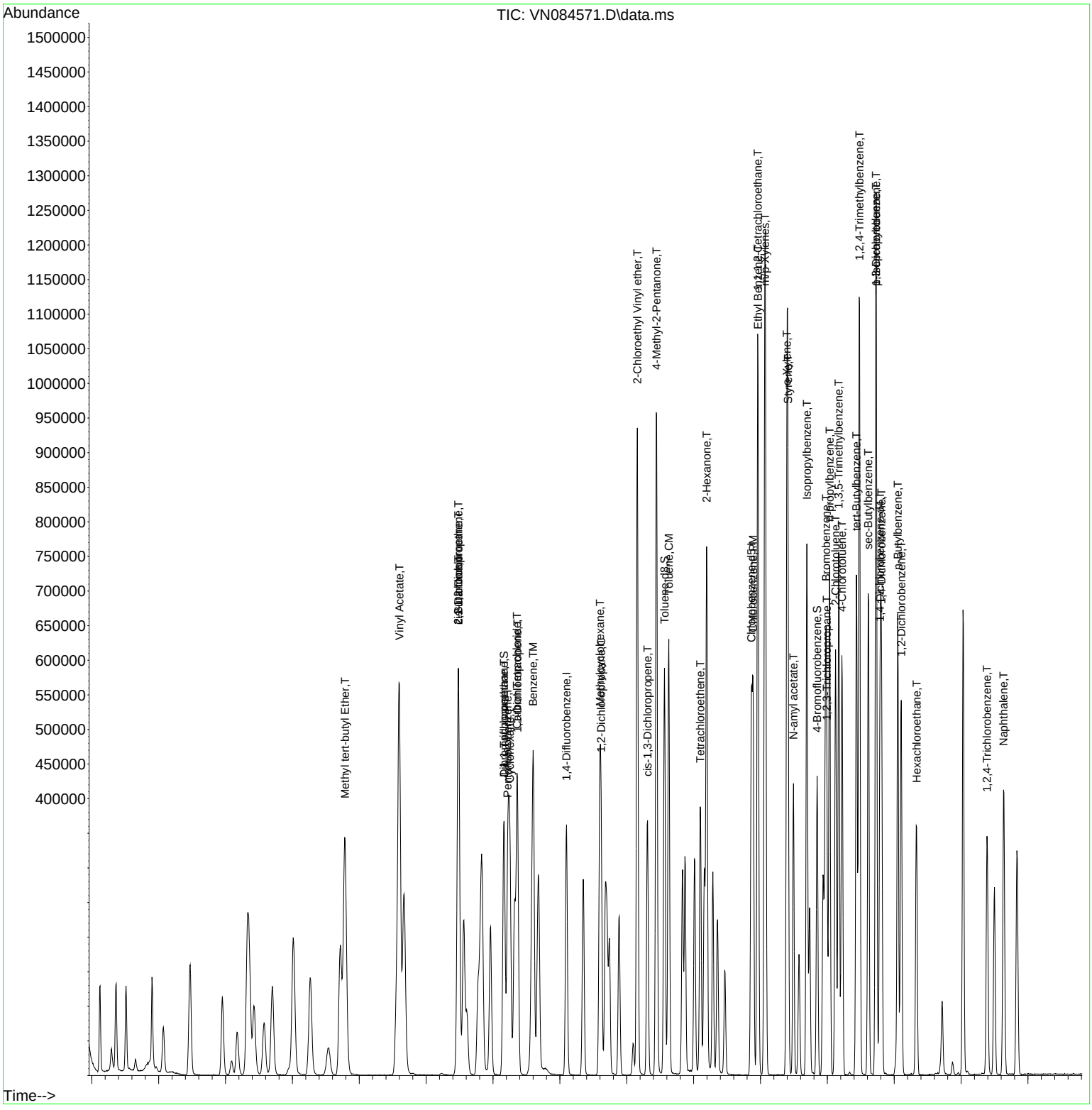
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	187576	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	319890	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130374	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	53102	19.600	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	39.200%#		
35) Dibromofluoromethane	8.165	113	41686	19.252	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.500%#		
50) Toluene-d8	10.565	98	155563	19.504	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.000%#		
62) 4-Bromofluorobenzene	12.847	95	57622	19.330	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.660%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	41443	19.219	ug/l	99
3) Chloromethane	2.359	50	54414	19.993	ug/l	97
4) Vinyl Chloride	2.512	62	46710	20.140	ug/l	93
5) Bromomethane	2.901	94	23244	18.916	ug/l	100
6) Chloroethane	3.042	64	30992	20.772	ug/l	94
7) Trichlorofluoromethane	3.442	101	76339	19.982	ug/l	96
8) Diethyl Ether	3.948	74	26904	19.963	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.342	101	42830	19.840	ug/l	99
10) Methyl Iodide	4.565	142	57315	19.865	ug/l	96
11) Tert butyl alcohol	5.559	59	33927	94.871	ug/l	99
12) 1,1-Dichloroethene	4.318	96	41980	19.653	ug/l	89
13) Acrolein	4.171	56	38007	106.582	ug/l	96
14) Allyl chloride	5.006	41	70420	20.328	ug/l	92
15) Acrylonitrile	5.718	53	105912	102.304	ug/l	97
16) Acetone	4.430	43	79971	100.481	ug/l	99
17) Carbon Disulfide	4.689	76	127521	19.385	ug/l	98
18) Methyl Acetate	5.024	43	71604	22.882	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	135170	20.645	ug/l	100
20) Methylene Chloride	5.271	84	47467	19.921	ug/l	88
21) trans-1,2-Dichloroethene	5.771	96	44697	20.378	ug/l	93
22) Diisopropyl ether	6.671	45	144115	20.937	ug/l	97
23) Vinyl Acetate	6.594	43	490034	103.232	ug/l	100
24) 1,1-Dichloroethane	6.559	63	83555	20.218	ug/l	97
25) 2-Butanone	7.483	43	130541	103.281	ug/l	99
26) 2,2-Dichloropropane	7.483	77	73066	20.313	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	52279	20.412	ug/l	97
28) Bromochloromethane	7.806	49	29146	17.702	ug/l	91
29) Tetrahydrofuran	7.836	42	86837	103.560	ug/l	97
30) Chloroform	7.959	83	85675	20.368	ug/l	100
31) Cyclohexane	8.247	56	71698	19.169	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	78458	20.493	ug/l	97
36) 1,1-Dichloropropene	8.371	75	60208	20.050	ug/l	99
37) Ethyl Acetate	7.559	43	54942	20.165	ug/l	97
38) Carbon Tetrachloride	8.359	117	68076	20.282	ug/l	98
39) Methylcyclohexane	9.600	83	63305	20.722	ug/l	93
40) Benzene	8.600	78	193129	20.026	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.771	41	30596	20.882 ug/l		97
42) 1,2-Dichloroethane	8.665	62	63026	20.180 ug/l		99
43) Isopropyl Acetate	8.688	43	104951	20.277 ug/l		98
44) Trichloroethene	9.347	130	44176	19.862 ug/l		99
45) 1,2-Dichloropropane	9.618	63	45764	20.229 ug/l		93
46) Dibromomethane	9.706	93	32857	20.583 ug/l		99
47) Bromodichloromethane	9.888	83	67288	19.997 ug/l	#	98
48) Methyl methacrylate	9.682	41	43398	20.466 ug/l		97
49) 1,4-Dioxane	9.700	88	15417	410.291 ug/l	#	79
51) 4-Methyl-2-Pentanone	10.447	43	266010	102.417 ug/l		100
52) Toluene	10.629	92	117530	20.838 ug/l		99
53) t-1,3-Dichloropropene	10.835	75	68847	19.766 ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	74498	20.208 ug/l		95
55) 1,1,2-Trichloroethane	11.012	97	42791	20.141 ug/l		95
56) Ethyl methacrylate	10.871	69	63347	20.613 ug/l		96
57) 1,3-Dichloropropane	11.159	76	74082	20.317 ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	146372	101.786 ug/l		98
59) 2-Hexanone	11.194	43	192335	101.735 ug/l		99
60) Dibromochloromethane	11.359	129	50039	20.665 ug/l		99
61) 1,2-Dibromoethane	11.465	107	43666	20.070 ug/l		100
64) Tetrachloroethene	11.106	164	36798	20.054 ug/l		92
65) Chlorobenzene	11.888	112	126753	20.539 ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	43201	20.125 ug/l		99
67) Ethyl Benzene	11.965	91	212737	20.651 ug/l		99
68) m/p-Xylenes	12.071	106	162754	41.732 ug/l		99
69) o-Xylene	12.400	106	77396	21.214 ug/l		99
70) Styrene	12.412	104	133059	20.907 ug/l		96
71) Bromoform	12.576	173	32901	20.369 ug/l	#	99
73) Isopropylbenzene	12.694	105	193023	21.127 ug/l		100
74) N-amyl acetate	12.494	43	80939	20.815 ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	60645	19.886 ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	49947m	19.414 ug/l		
77) Bromobenzene	12.976	156	48017	19.550 ug/l		97
78) n-propylbenzene	13.035	91	225085	21.024 ug/l		99
79) 2-Chlorotoluene	13.123	91	148533	21.233 ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	161619	21.343 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	22047	20.070 ug/l	#	85
82) 4-Chlorotoluene	13.218	91	147989	20.102 ug/l		100
83) tert-Butylbenzene	13.435	119	138079	22.033 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	170246	21.783 ug/l		99
85) sec-Butylbenzene	13.618	105	188158	21.255 ug/l		100
86) p-Isopropyltoluene	13.729	119	156598	21.569 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	92310	19.258 ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	92940	20.458 ug/l		99
89) n-Butylbenzene	14.053	91	136771	20.139 ug/l		99
90) Hexachloroethane	14.329	117	32199	19.887 ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	91138	19.787 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11962	19.362 ug/l		96
93) 1,2,4-Trichlorobenzene	15.394	180	46698	18.523 ug/l		96
94) Hexachlorobutadiene	15.500	225	22216	20.066 ug/l		96
95) Naphthalene	15.635	128	153972	20.404 ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	49699	20.308 ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

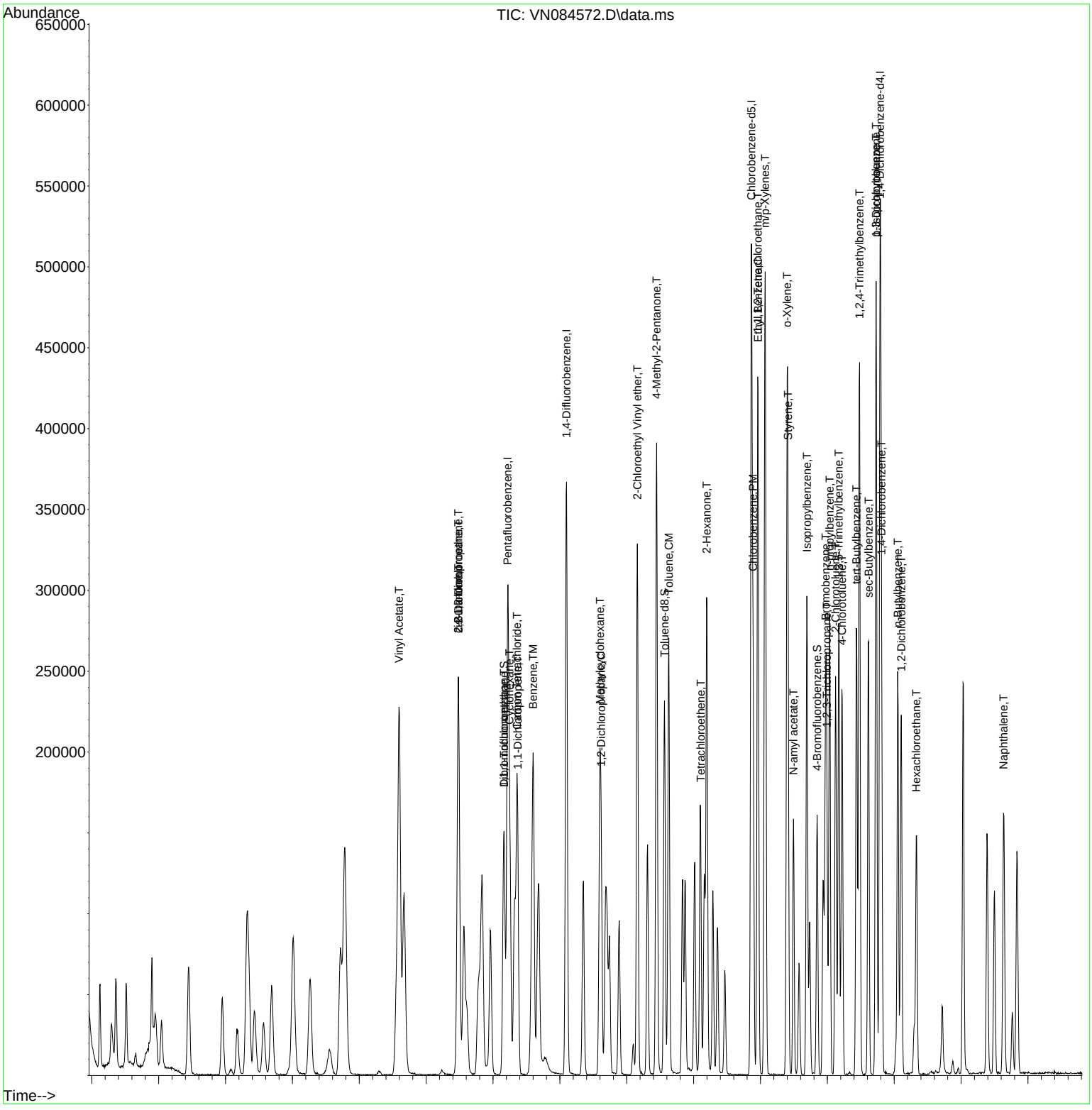
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	179863	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	312244	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	270408	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127178	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.583	65	25986	10.003	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 20.000%#				
35) Dibromofluoromethane	8.159	113	20969	9.921	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 19.840%#				
50) Toluene-d8	10.565	98	76892	9.876	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 19.760%#				
62) 4-Bromofluorobenzene	12.847	95	28191	9.689	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 19.380%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	21501	10.399	ug/l		96
3) Chloromethane	2.359	50	31342	10.950	ug/l		98
4) Vinyl Chloride	2.512	62	22896	10.295	ug/l		93
5) Bromomethane	2.901	94	12071	10.245	ug/l		95
6) Chloroethane	3.059	64	15315	10.010	ug/l	#	83
7) Trichlorofluoromethane	3.459	101	36747	10.031	ug/l		99
8) Diethyl Ether	3.953	74	13090	10.129	ug/l		100
9) 1,1,2-Trichlorotrifluo...	4.353	101	21028	10.158	ug/l		98
10) Methyl Iodide	4.577	142	28795	10.408	ug/l		97
11) Tert butyl alcohol	5.542	59	17899	52.198	ug/l	#	85
12) 1,1-Dichloroethene	4.324	96	20669	10.091	ug/l		87
13) Acrolein	4.177	56	17284	50.547	ug/l		99
14) Allyl chloride	5.012	41	33287	10.021	ug/l		93
15) Acrylonitrile	5.718	53	50731	51.104	ug/l		98
16) Acetone	4.430	43	40100	51.168	ug/l		93
17) Carbon Disulfide	4.695	76	61652	9.774	ug/l		97
18) Methyl Acetate	5.030	43	37538	10.544	ug/l		100
19) Methyl tert-butyl Ether	5.789	73	64007	10.195	ug/l		97
20) Methylene Chloride	5.265	84	23684	10.366	ug/l		94
21) trans-1,2-Dichloroethene	5.771	96	21581	10.261	ug/l		84
22) Diisopropyl ether	6.671	45	68672	10.404	ug/l	#	97
23) Vinyl Acetate	6.600	43	233407	51.279	ug/l		99
24) 1,1-Dichloroethane	6.565	63	40556	10.234	ug/l	#	95
25) 2-Butanone	7.483	43	60876	50.229	ug/l		96
26) 2,2-Dichloropropane	7.483	77	35189	10.203	ug/l		100
27) cis-1,2-Dichloroethene	7.483	96	24626	10.028	ug/l		99
28) Bromochloromethane	7.806	49	14918	9.449	ug/l	#	15
29) Tetrahydrofuran	7.841	42	42072	52.326	ug/l		99
30) Chloroform	7.965	83	41496	10.288	ug/l		97
31) Cyclohexane	8.247	56	37514	10.460	ug/l		96
32) 1,1,1-Trichloroethane	8.165	97	38612	10.518	ug/l		94
36) 1,1-Dichloropropene	8.371	75	29218	9.968	ug/l		99
37) Ethyl Acetate	7.559	43	25249	9.494	ug/l		96
38) Carbon Tetrachloride	8.359	117	34214	10.443	ug/l		95
39) Methylcyclohexane	9.600	83	30390	10.191	ug/l		96
40) Benzene	8.606	78	94121	9.999	ug/l		95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	14485	10.128 ug/l		96
42) 1,2-Dichloroethane	8.671	62	30752	10.087 ug/l		99
43) Isopropyl Acetate	8.688	43	55871	10.611 ug/l		94
44) Trichloroethene	9.353	130	21099	9.719 ug/l		98
45) 1,2-Dichloropropane	9.618	63	22314	10.105 ug/l		96
46) Dibromomethane	9.706	93	15211	9.762 ug/l		99
47) Bromodichloromethane	9.883	83	32612	9.929 ug/l	#	93
48) Methyl methacrylate	9.683	41	20961	10.127 ug/l		98
49) 1,4-Dioxane	9.700	88	7375	201.076 ug/l	#	76
51) 4-Methyl-2-Pentanone	10.447	43	130324	51.405 ug/l		99
52) Toluene	10.630	92	56321	10.230 ug/l		100
53) t-1,3-Dichloropropene	10.835	75	33220	9.771 ug/l		95
54) cis-1,3-Dichloropropene	10.312	75	35562	9.883 ug/l		92
55) 1,1,2-Trichloroethane	11.018	97	21367	10.303 ug/l		94
56) Ethyl methacrylate	10.871	69	29804	9.936 ug/l		98
57) 1,3-Dichloropropane	11.165	76	35790	10.056 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	66790	47.583 ug/l		97
59) 2-Hexanone	11.200	43	92772	50.273 ug/l		100
60) Dibromochloromethane	11.359	129	24541	10.383 ug/l		97
61) 1,2-Dibromoethane	11.471	107	20895	9.839 ug/l		97
64) Tetrachloroethene	11.100	164	18777	10.439 ug/l		94
65) Chlorobenzene	11.888	112	60746	10.041 ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	21080	10.018 ug/l		98
67) Ethyl Benzene	11.965	91	101653	10.067 ug/l		99
68) m/p-Xylenes	12.071	106	75857	19.842 ug/l		100
69) o-Xylene	12.394	106	36696	10.261 ug/l		100
70) Styrene	12.412	104	61865	9.916 ug/l		98
71) Bromoform	12.576	173	15630	9.871 ug/l	#	95
73) Isopropylbenzene	12.694	105	91683	10.287 ug/l		98
74) N-amyl acetate	12.494	43	38841	10.240 ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	30270	10.175 ug/l		97
76) 1,2,3-Trichloropropane	12.994	75	25940m	10.336 ug/l		
77) Bromobenzene	12.982	156	23987	10.012 ug/l		94
78) n-propylbenzene	13.035	91	106518	10.199 ug/l		99
79) 2-Chlorotoluene	13.123	91	68678	10.064 ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	77273	10.461 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	11334	10.577 ug/l		96
82) 4-Chlorotoluene	13.218	91	71787	9.996 ug/l		99
83) tert-Butylbenzene	13.435	119	62600	10.240 ug/l		97
84) 1,2,4-Trimethylbenzene	13.482	105	78207	10.258 ug/l		98
85) sec-Butylbenzene	13.612	105	89469	10.361 ug/l		99
86) p-Isopropyltoluene	13.729	119	72307	10.210 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	45832	9.802 ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	47483	10.276 ug/l		97
89) n-Butylbenzene	14.053	91	62495	9.433 ug/l		100
90) Hexachloroethane	14.335	117	16100	10.194 ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	44055	9.805 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5744	9.531 ug/l		97
93) 1,2,4-Trichlorobenzene	15.394	180	22413	9.114 ug/l		97
94) Hexachlorobutadiene	15.494	225	10263	9.503 ug/l		97
95) Naphthalene	15.641	128	68919	9.363 ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	22303	9.342 ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

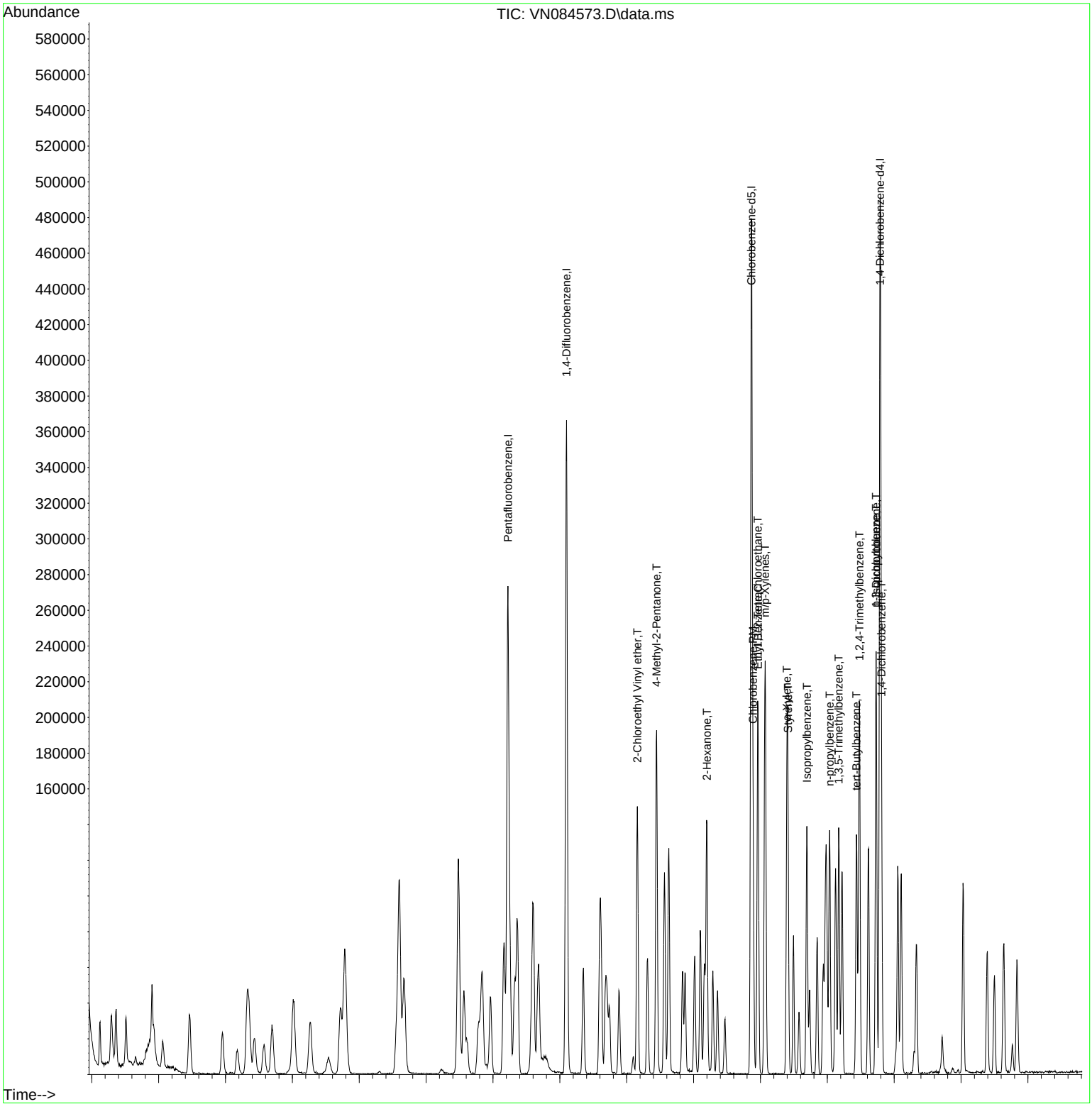
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	171598	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	297777	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	254342	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	118229	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.577	65	13227	5.337	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.680%#			
35) Dibromofluoromethane	8.165	113	10512	5.215	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.440%#			
50) Toluene-d8	10.565	98	36225	4.879	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	9.760%#			
62) 4-Bromofluorobenzene	12.847	95	13506	4.867	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.740%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	10192	5.167	ug/l		93
3) Chloromethane	2.360	50	17076	5.115	ug/l		97
4) Vinyl Chloride	2.513	62	11174	5.267	ug/l		96
5) Bromomethane	2.901	94	6944	6.177	ug/l		98
6) Chloroethane	3.060	64	8146	4.946	ug/l		98
7) Trichlorofluoromethane	3.460	101	18362	5.254	ug/l		98
8) Diethyl Ether	3.954	74	6372	5.168	ug/l		91
9) 1,1,2-Trichlorotrifluo...	4.348	101	10090	5.109	ug/l		99
10) Methyl Iodide	4.571	142	14021	5.312	ug/l	#	96
11) Tert butyl alcohol	5.536	59	10153	31.035	ug/l	#	87
12) 1,1-Dichloroethene	4.324	96	9474	4.848	ug/l		91
13) Acrolein	4.183	56	8890	27.251	ug/l		97
14) Allyl chloride	5.012	41	16771	5.292	ug/l		94
15) Acrylonitrile	5.724	53	25212	26.621	ug/l		99
16) Acetone	4.430	43	20706	26.370	ug/l		91
17) Carbon Disulfide	4.689	76	30614	5.087	ug/l	#	86
18) Methyl Acetate	5.030	43	21727	4.691	ug/l		99
19) Methyl tert-butyl Ether	5.795	73	30655	5.118	ug/l	#	89
20) Methylene Chloride	5.265	84	12258	5.623	ug/l		91
21) trans-1,2-Dichloroethene	5.771	96	10024	4.996	ug/l		94
22) Diisopropyl ether	6.671	45	31631	5.023	ug/l		93
23) Vinyl Acetate	6.601	43	111267	25.622	ug/l		98
24) 1,1-Dichloroethane	6.559	63	20644	5.460	ug/l		96
25) 2-Butanone	7.489	43	31742	27.452	ug/l		97
26) 2,2-Dichloropropane	7.483	77	16462	5.003	ug/l		94
27) cis-1,2-Dichloroethene	7.483	96	12105	5.167	ug/l		98
28) Bromochloromethane	7.806	49	7002	4.649	ug/l	#	91
29) Tetrahydrofuran	7.842	42	20240	26.385	ug/l		99
30) Chloroform	7.959	83	20974	5.451	ug/l		92
31) Cyclohexane	8.253	56	18750	5.480	ug/l		98
32) 1,1,1-Trichloroethane	8.165	97	17717	5.059	ug/l		97
36) 1,1-Dichloropropene	8.371	75	14193	5.077	ug/l		99
37) Ethyl Acetate	7.559	43	13884	5.474	ug/l	#	94
38) Carbon Tetrachloride	8.353	117	15977	5.113	ug/l		96
39) Methylcyclohexane	9.600	83	13624	4.791	ug/l		95
40) Benzene	8.600	78	46044	5.129	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	7091	5.199	ug/l		97
42) 1,2-Dichloroethane	8.665	62	14972	5.150	ug/l		98
43) Isopropyl Acetate	8.689	43	30044	5.554	ug/l	#	90
44) Trichloroethene	9.347	130	10168	4.911	ug/l		89
45) 1,2-Dichloropropane	9.618	63	11095	5.269	ug/l		97
46) Dibromomethane	9.706	93	7752	5.217	ug/l		97
47) Bromodichloromethane	9.889	83	15749	5.028	ug/l	#	98
48) Methyl methacrylate	9.677	41	9971	5.051	ug/l		97
49) 1,4-Dioxane	9.700	88	3729	106.609	ug/l		95
51) 4-Methyl-2-Pentanone	10.447	43	61332	25.367	ug/l		100
52) Toluene	10.630	92	26518	5.051	ug/l		99
53) t-1,3-Dichloropropene	10.836	75	16279	5.021	ug/l		93
54) cis-1,3-Dichloropropene	10.312	75	17395	5.069	ug/l		96
55) 1,1,2-Trichloroethane	11.018	97	10193	5.154	ug/l		93
56) Ethyl methacrylate	10.871	69	13362	4.671	ug/l		94
57) 1,3-Dichloropropane	11.165	76	17816	5.249	ug/l		96
58) 2-Chloroethyl Vinyl ether	10.159	63	30088	22.477	ug/l		98
59) 2-Hexanone	11.194	43	43750	24.860	ug/l		97
60) Dibromochloromethane	11.359	129	11226	4.980	ug/l		96
61) 1,2-Dibromoethane	11.471	107	10584	5.226	ug/l		97
64) Tetrachloroethene	11.100	164	8917	5.271	ug/l	#	87
65) Chlorobenzene	11.888	112	29618	5.205	ug/l		94
66) 1,1,1,2-Tetrachloroethane	11.959	131	10265	5.186	ug/l		99
67) Ethyl Benzene	11.965	91	47037	4.952	ug/l		98
68) m/p-Xylenes	12.065	106	34753	9.665	ug/l		100
69) o-Xylene	12.394	106	16393	4.873	ug/l		99
70) Styrene	12.412	104	27807	4.739	ug/l		98
71) Bromoform	12.577	173	7686	5.161	ug/l	#	95
73) Isopropylbenzene	12.694	105	40223	4.855	ug/l		99
74) N-amyl acetate	12.494	43	18583	5.270	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	15573	5.631	ug/l		97
76) 1,2,3-Trichloropropane	12.994	75	11982m	5.136	ug/l		
77) Bromobenzene	12.983	156	11012	4.944	ug/l		98
78) n-propylbenzene	13.035	91	47776	4.921	ug/l		99
79) 2-Chlorotoluene	13.124	91	32460	5.117	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	32685	4.760	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.730	75	5096	5.116	ug/l		93
82) 4-Chlorotoluene	13.218	91	33672	5.044	ug/l		98
83) tert-Butylbenzene	13.435	119	26850	4.724	ug/l		95
84) 1,2,4-Trimethylbenzene	13.483	105	32703	4.614	ug/l		100
85) sec-Butylbenzene	13.612	105	37187	4.632	ug/l		97
86) p-Isopropyltoluene	13.730	119	29767	4.521	ug/l		97
87) 1,3-Dichlorobenzene	13.730	146	22272	5.124	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	22213	4.741	ug/l		91
89) n-Butylbenzene	14.053	91	29010	4.710	ug/l		99
90) Hexachloroethane	14.335	117	7404	5.043	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	22221	5.320	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.718	75	3239	5.781	ug/l		93
93) 1,2,4-Trichlorobenzene	15.394	180	11298	4.942	ug/l		99
94) Hexachlorobutadiene	15.500	225	5184	5.163	ug/l		96
95) Naphthalene	15.641	128	32966	4.817	ug/l		98
96) 1,2,3-Trichlorobenzene	15.835	180	11106	5.004	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

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

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

ICAL Form

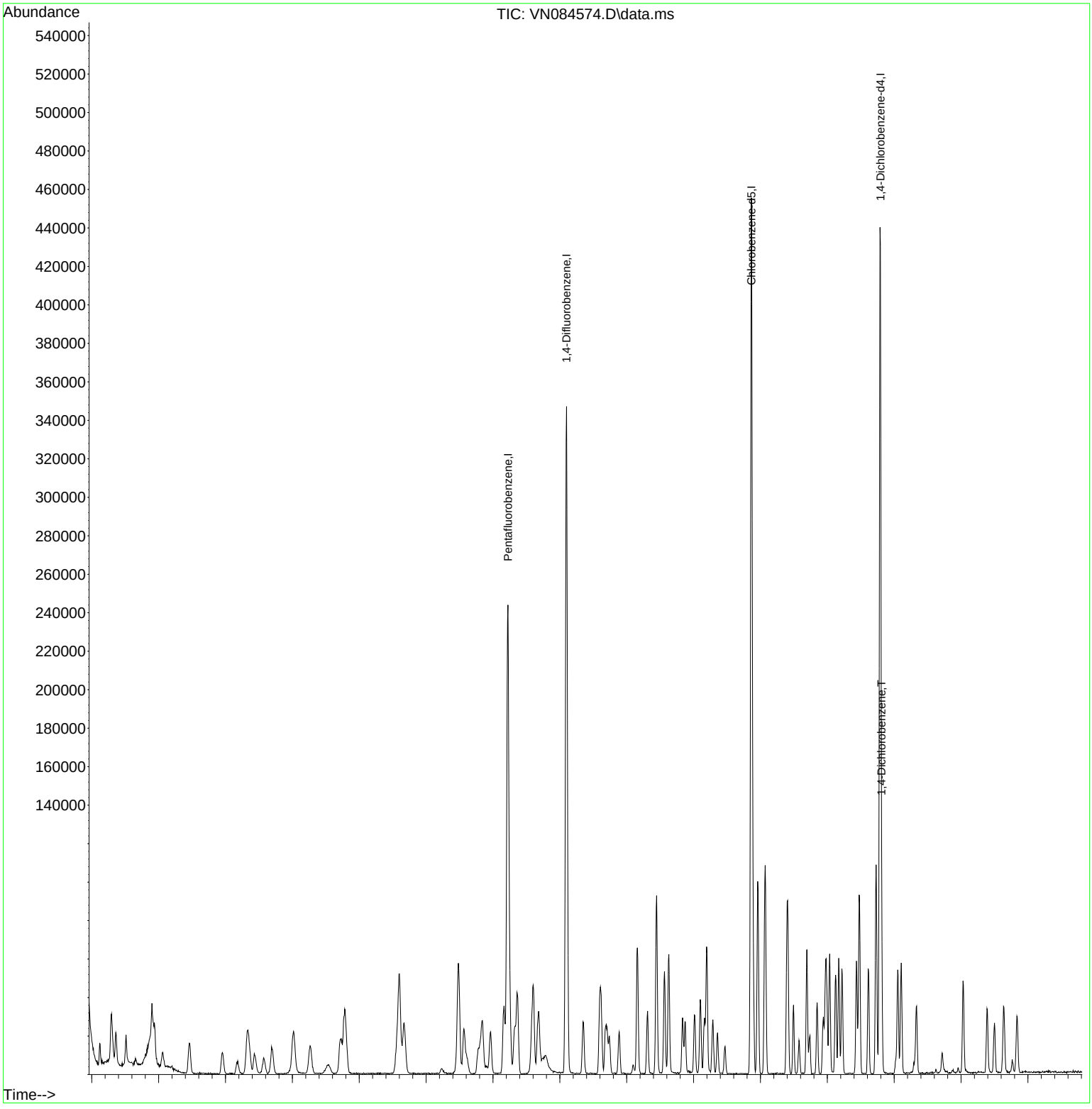
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084575.D
Acq On : 30 Oct 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:13:36 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	168991	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	297772	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	250990	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	109560	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	1964	1.011	ug/l		100
3) Chloromethane	2.365	50	6046	1.880	ug/l	#	80
4) Vinyl Chloride	2.512	62	1963	0.939	ug/l		89
6) Chloroethane	3.083	64	2917	0.885	ug/l		98
7) Trichlorofluoromethane	3.471	101	3621	1.052	ug/l	#	74
8) Diethyl Ether	3.971	74	1209m	0.996	ug/l		
9) 1,1,2-Trichlorotrifluo...	4.359	101	1982	1.019	ug/l		90
12) 1,1-Dichloroethene	4.336	96	2177	1.131	ug/l	#	68
14) Allyl chloride	5.006	41	2869	0.919	ug/l	#	29
15) Acrylonitrile	5.730	53	4443	4.764	ug/l	#	55
16) Acetone	4.430	43	5707m	5.302	ug/l		
17) Carbon Disulfide	4.700	76	7155	1.207	ug/l	#	93
18) Methyl Acetate	5.024	43	7743	1.954	ug/l	#	89
19) Methyl tert-butyl Ether	5.806	73	5314	0.901	ug/l		95
20) Methylene Chloride	5.271	84	2029	0.945	ug/l	#	81
21) trans-1,2-Dichloroethene	5.789	96	2030	1.027	ug/l	#	78
22) Diisopropyl ether	6.665	45	5485	0.884	ug/l	#	89
23) Vinyl Acetate	6.600	43	18413	4.306	ug/l		96
24) 1,1-Dichloroethane	6.553	63	3491	0.938	ug/l	#	83
25) 2-Butanone	7.494	43	5644	4.956	ug/l	#	88
26) 2,2-Dichloropropane	7.488	77	3152	0.973	ug/l	#	70
27) cis-1,2-Dichloroethene	7.477	96	2275	0.986	ug/l	#	75
28) Bromochloromethane	7.812	49	1450	0.978	ug/l	#	97
29) Tetrahydrofuran	7.847	42	3321	4.396	ug/l		96
30) Chloroform	7.965	83	3463	0.914	ug/l		87
32) 1,1,1-Trichloroethane	8.171	97	3312	0.960	ug/l	#	34
36) 1,1-Dichloropropene	8.365	75	2825	1.011	ug/l		97
37) Ethyl Acetate	7.559	43	2440	0.962	ug/l	#	88
38) Carbon Tetrachloride	8.353	117	2904	0.929	ug/l	#	73
39) Methylcyclohexane	9.600	83	2212	0.778	ug/l		89
40) Benzene	8.600	78	9169	1.021	ug/l		94
41) Methacrylonitrile	7.777	41	1095	0.803	ug/l	#	84
42) 1,2-Dichloroethane	8.665	62	2733	0.940	ug/l		81
43) Isopropyl Acetate	8.688	43	7724	0.697	ug/l	#	78
44) Trichloroethene	9.353	130	2306	1.114	ug/l		74
45) 1,2-Dichloropropane	9.624	63	1967	0.934	ug/l	#	86

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084575.D
Acq On : 30 Oct 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:13:36 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Dibromomethane	9.712	93	1472	0.991 ug/l	93
47) Bromodichloromethane	9.882	83	3156	1.008 ug/l #	96
48) Methyl methacrylate	9.682	41	1652	0.837 ug/l #	84
49) 1,4-Dioxane	9.700	88	576	16.468 ug/l #	73
51) 4-Methyl-2-Pentanone	10.441	43	10237	4.234 ug/l	92
52) Toluene	10.629	92	4507	0.858 ug/l	89
53) t-1,3-Dichloropropene	10.835	75	3308	1.020 ug/l	93
54) cis-1,3-Dichloropropene	10.312	75	3266	0.952 ug/l #	94
55) 1,1,2-Trichloroethane	11.012	97	1841	0.931 ug/l #	86
56) Ethyl methacrylate	10.876	69	2211	0.773 ug/l	94
57) 1,3-Dichloropropane	11.165	76	3139	0.925 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	4979	3.720 ug/l #	87
59) 2-Hexanone	11.194	43	7617	4.328 ug/l	89
60) Dibromochloromethane	11.353	129	1857	0.824 ug/l	88
61) 1,2-Dibromoethane	11.465	107	2001	0.988 ug/l	89
64) Tetrachloroethene	11.100	164	1629	0.976 ug/l #	69
65) Chlorobenzene	11.894	112	5753	1.025 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	2002	1.025 ug/l #	61
67) Ethyl Benzene	11.965	91	8520	0.909 ug/l	98
68) m/p-Xylenes	12.070	106	6568	1.851 ug/l	96
69) o-Xylene	12.400	106	2759	0.831 ug/l	99
70) Styrene	12.406	104	5269	0.910 ug/l	95
71) Bromoform	12.582	173	1434	0.976 ug/l #	95
73) Isopropylbenzene	12.694	105	6985	0.910 ug/l	99
74) N-amyl acetate	12.488	43	2680	0.820 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.929	83	2678	1.045 ug/l #	91
76) 1,2,3-Trichloropropane	12.994	75	2731m	1.263 ug/l	
77) Bromobenzene	12.982	156	2440	1.182 ug/l	95
78) n-propylbenzene	13.035	91	7935	0.882 ug/l	95
79) 2-Chlorotoluene	13.123	91	5699	0.969 ug/l	96
80) 1,3,5-Trimethylbenzene	13.170	105	5298	0.833 ug/l	98
82) 4-Chlorotoluene	13.223	91	6682	1.080 ug/l	96
83) tert-Butylbenzene	13.435	119	4148	0.788 ug/l	89
84) 1,2,4-Trimethylbenzene	13.482	105	5651	0.860 ug/l	98
85) sec-Butylbenzene	13.617	105	6490	0.872 ug/l	93
86) p-Isopropyltoluene	13.729	119	4859	0.796 ug/l	94
87) 1,3-Dichlorobenzene	13.729	146	4961	1.232 ug/l	95
88) 1,4-Dichlorobenzene	13.817	146	6076m	0.801 ug/l	
89) n-Butylbenzene	14.059	91	6020	1.055 ug/l	95
90) Hexachloroethane	14.329	117	1493	1.097 ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	4428	1.144 ug/l	91
92) 1,2-Dibromo-3-Chloropr...	14.717	75	595	1.146 ug/l	83
93) 1,2,4-Trichlorobenzene	15.394	180	2964	1.399 ug/l	98
94) Hexachlorobutadiene	15.506	225	1208	1.298 ug/l	88
95) Naphthalene	15.635	128	7352	1.159 ug/l	96
96) 1,2,3-Trichlorobenzene	15.835	180	2605	1.267 ug/l	91

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

ICAL Form

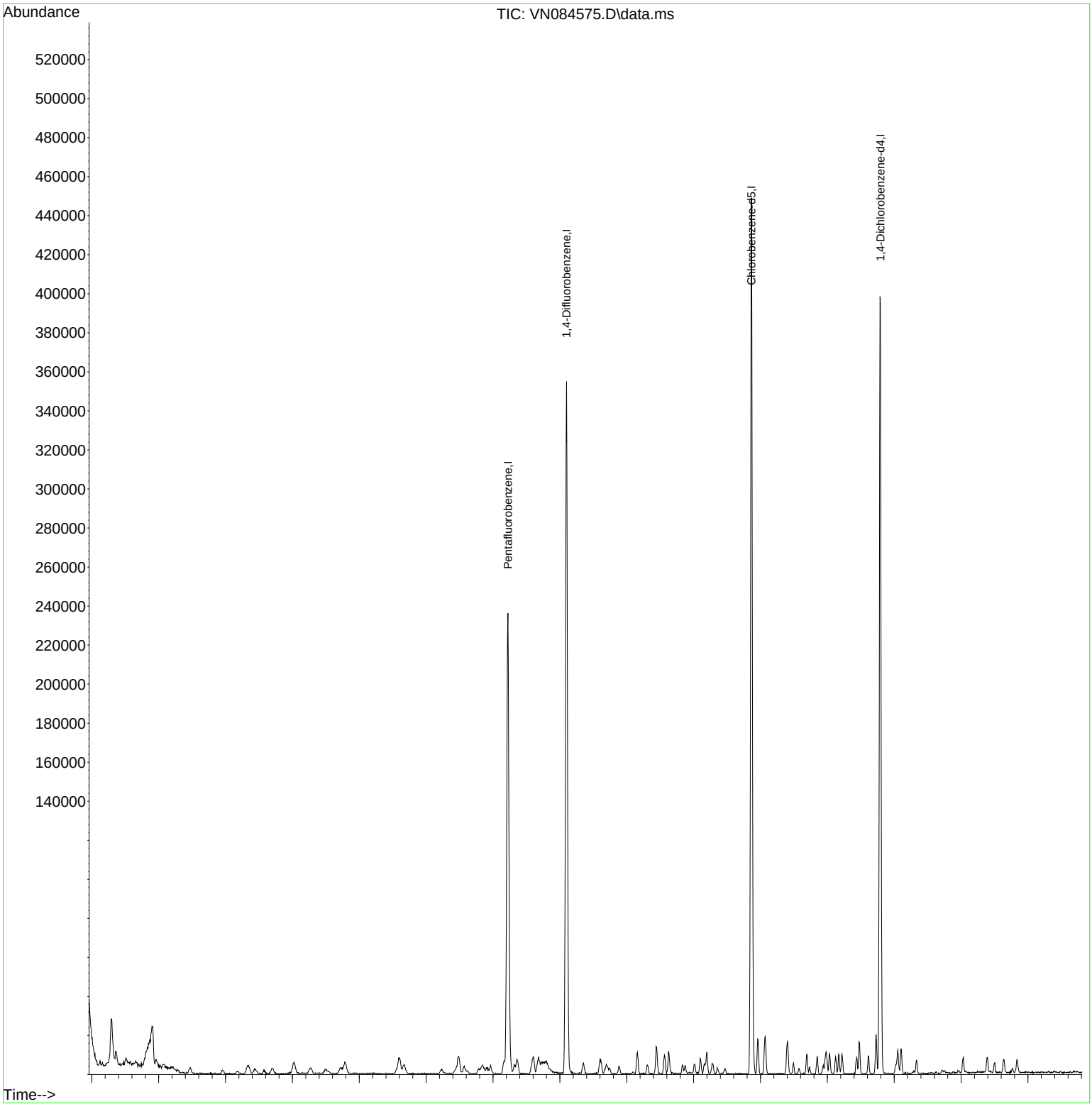
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084575.D
Acq On : 30 Oct 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:13:36 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt

11/04/2024

Supervised By :Mahesh Dadoda

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	192202	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324264	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	291586	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142817	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132029	47.560	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.120%			
35) Dibromofluoromethane	8.165	113	104306	47.522	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.040%			
50) Toluene-d8	10.565	98	390989	48.359	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.720%			
62) 4-Bromofluorobenzene	12.847	95	144180	47.715	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	101605	45.985	ug/l	97
3) Chloromethane	2.359	50	118060	45.299	ug/l	99
4) Vinyl Chloride	2.512	62	110340	46.430	ug/l	95
5) Bromomethane	2.900	94	54764	43.494	ug/l	100
6) Chloroethane	3.071	64	68330	46.348	ug/l	93
7) Trichlorofluoromethane	3.471	101	178683	45.644	ug/l	98
8) Diethyl Ether	3.959	74	64407	46.640	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	101094	45.702	ug/l	98
10) Methyl Iodide	4.577	142	137594	46.542	ug/l	97
11) Tert butyl alcohol	5.536	59	80556	219.840	ug/l	99
12) 1,1-Dichloroethene	4.330	96	99235	45.338	ug/l	99
13) Acrolein	4.171	56	79788	218.362	ug/l	98
14) Allyl chloride	5.012	41	170293	47.975	ug/l	92
15) Acrylonitrile	5.718	53	251141	236.747	ug/l	100
16) Acetone	4.430	43	196070	244.445	ug/l	100
17) Carbon Disulfide	4.700	76	287697	42.682	ug/l	99
18) Methyl Acetate	5.024	43	132834	44.944	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	326067	48.603	ug/l	97
20) Methylene Chloride	5.265	84	111618	45.716	ug/l	91
21) trans-1,2-Dichloroethene	5.777	96	101181	45.019	ug/l	98
22) Diisopropyl ether	6.671	45	343763	48.739	ug/l	99
23) Vinyl Acetate	6.600	43	1204384	247.614	ug/l	99
24) 1,1-Dichloroethane	6.559	63	196518	46.408	ug/l	97
25) 2-Butanone	7.483	43	307765	237.635	ug/l	97
26) 2,2-Dichloropropane	7.488	77	166234	45.103	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	121280	46.214	ug/l	97
28) Bromochloromethane	7.806	49	92741	54.971	ug/l	97
29) Tetrahydrofuran	7.835	42	211210	245.822	ug/l	98
30) Chloroform	7.965	83	203935	47.316	ug/l	100
31) Cyclohexane	8.253	56	172671	45.053	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	183488	46.774	ug/l	98
36) 1,1-Dichloropropene	8.365	75	141152	46.370	ug/l	100
37) Ethyl Acetate	7.559	43	132993	48.154	ug/l	99
38) Carbon Tetrachloride	8.359	117	157005	46.145	ug/l	97
39) Methylcyclohexane	9.600	83	154743	49.969	ug/l	99
40) Benzene	8.606	78	452351	46.273	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt
11/04/2024
Supervised By :Mahesh Dadoda
11/04/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	77176	51.964 ug/l	99
42) 1,2-Dichloroethane	8.671	62	149173	47.118 ug/l	99
43) Isopropyl Acetate	8.688	43	232558	45.492 ug/l	98
44) Trichloroethene	9.347	130	100849	44.732 ug/l	99
45) 1,2-Dichloropropane	9.618	63	108229	47.196 ug/l	96
46) Dibromomethane	9.706	93	74292	45.911 ug/l	96
47) Bromodichloromethane	9.888	83	158814	46.560 ug/l #	99
48) Methyl methacrylate	9.676	41	109745	51.057 ug/l	97
49) 1,4-Dioxane	9.694	88	40527	1063.992 ug/l #	95
51) 4-Methyl-2-Pentanone	10.447	43	665397	252.729 ug/l	98
52) Toluene	10.629	92	277957	48.616 ug/l	100
53) t-1,3-Dichloropropene	10.835	75	162100	45.911 ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	175008	46.832 ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	102553	47.618 ug/l	97
56) Ethyl methacrylate	10.871	69	164370	52.764 ug/l	98
57) 1,3-Dichloropropane	11.165	76	176546	47.765 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	408174	280.013 ug/l	98
59) 2-Hexanone	11.194	43	489776	255.570 ug/l	99
60) Dibromochloromethane	11.359	129	120465	49.079 ug/l	99
61) 1,2-Dibromoethane	11.465	107	102316	46.393 ug/l	100
64) Tetrachloroethene	11.100	164	88124	45.436 ug/l	98
65) Chlorobenzene	11.888	112	292713	44.872 ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	105108	46.323 ug/l	99
67) Ethyl Benzene	11.965	91	526140	48.319 ug/l	99
68) m/p-Xylenes	12.070	106	408029	98.979 ug/l	99
69) o-Xylene	12.400	106	194895	50.538 ug/l	99
70) Styrene	12.412	104	333668	49.600 ug/l	98
71) Bromoform	12.576	173	78822	46.166 ug/l #	98
73) Isopropylbenzene	12.694	105	491033	49.063 ug/l	100
74) N-amyl acetate	12.494	43	209049	49.076 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	147181	44.058 ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	122725m	42.988 ug/l	
77) Bromobenzene	12.976	156	119728	44.500 ug/l	97
78) n-propylbenzene	13.035	91	576495	49.156 ug/l	98
79) 2-Chlorotoluene	13.123	91	367294	47.930 ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	420675	50.714 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	54512	45.300 ug/l	99
82) 4-Chlorotoluene	13.223	91	361596	44.837 ug/l	98
83) tert-Butylbenzene	13.435	119	361800	52.701 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	428517	50.053 ug/l	100
85) sec-Butylbenzene	13.617	105	483212	49.829 ug/l	100
86) p-Isopropyltoluene	13.729	119	410129	51.568 ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	219757	41.852 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	221608	45.904 ug/l	99
89) n-Butylbenzene	14.053	91	341775	45.941 ug/l	100
90) Hexachloroethane	14.329	117	77324	43.597 ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	220824	43.765 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30895	45.651 ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	111270	40.290 ug/l	98
94) Hexachlorobutadiene	15.500	225	47959	39.544 ug/l	97
95) Naphthalene	15.641	128	375360	45.408 ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	108830	40.595 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt

11/04/2024

Supervised By :Mahesh Dadoda

11/04/2024

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

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

ICAL Form

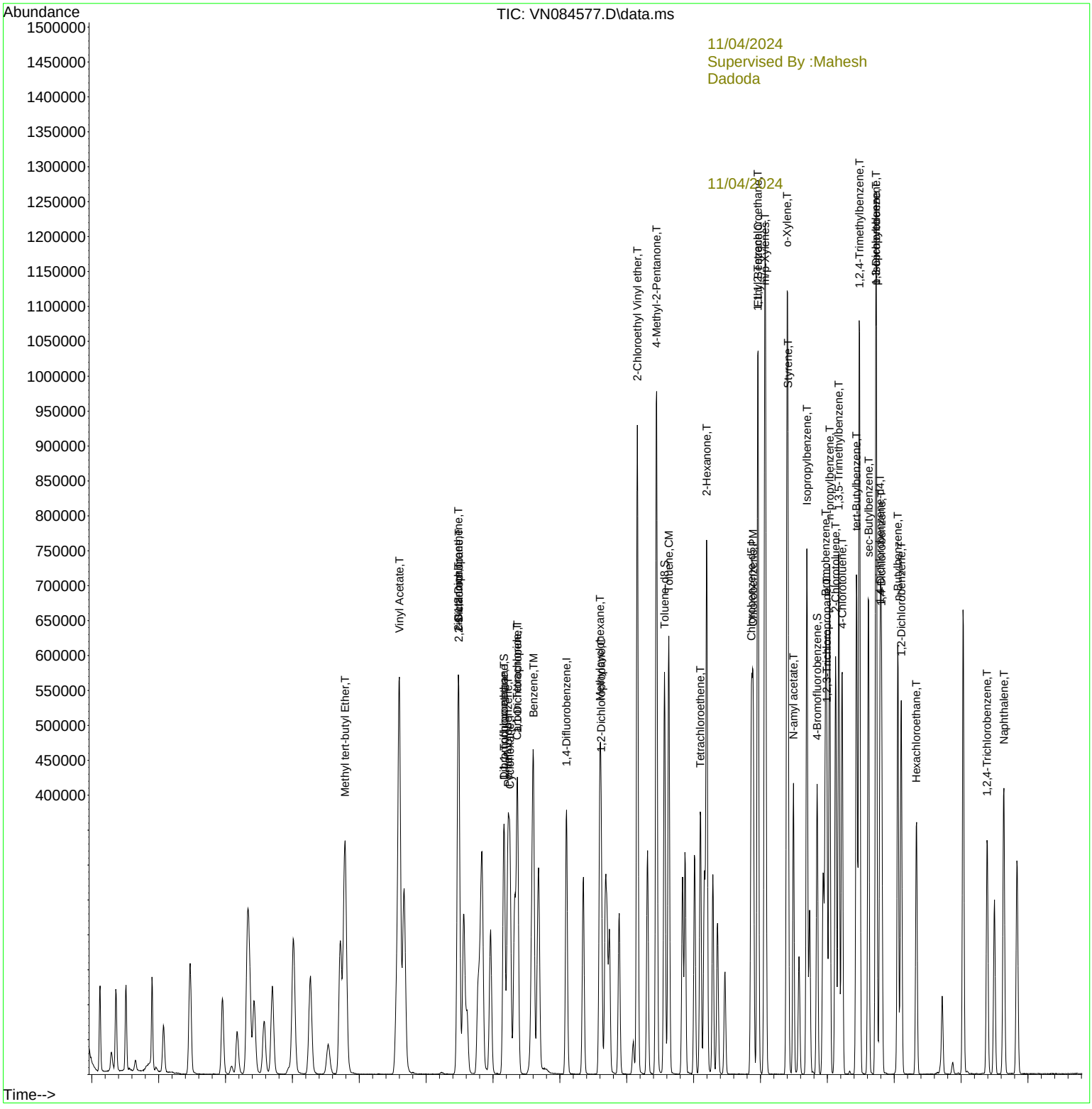
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	0.575	0.529	8.0	99	0.00
3	P	Chloromethane	0.952	0.614	35.5#	94	0.00
4	C	Vinyl Chloride	0.618	0.574	7.1#	98	0.00
5	T	Bromomethane	0.328	0.285	13.1	99	-0.05
6	T	Chloroethane	0.488	0.356	27.0#	97	-0.05
7	T	Trichlorofluoromethane	1.018	0.930	8.6	100	-0.02
8	T	Diethyl Ether	0.359	0.335	6.7	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.575	0.526	8.5	97	-0.01
10	T	Methyl Iodide	0.769	0.716	6.9	100	-0.02
11	T	Tert butyl alcohol	0.095	0.084	11.6	100	0.01
12	CM	1,1-Dichloroethene	0.569	0.516	9.3#	99	-0.01
13	T	Acrolein	0.095	0.083	12.6	97	0.00
14	T	Allyl chloride	0.923	0.886	4.0	100	-0.01
15	T	Acrylonitrile	0.276	0.261	5.4	99	0.00
16	T	Acetone	0.238	0.204	14.3	103	0.00
17	T	Carbon Disulfide	1.753	1.497	14.6	96	-0.01
18	T	Methyl Acetate	1.172	0.691	41.0#	95	0.00
19	T	Methyl tert-butyl Ether	1.745	1.696	2.8	99	0.00
20	T	Methylene Chloride	0.635	0.581	8.5	99	-0.01
21	T	trans-1,2-Dichloroethene	0.585	0.526	10.1	96	-0.01
22	T	Diisopropyl ether	1.835	1.789	2.5	99	0.00
23	T	Vinyl Acetate	1.265	1.253	0.9	99	0.00
24	P	1,1-Dichloroethane	1.102	1.022	7.3	99	-0.01
25	T	2-Butanone	0.337	0.320	5.0	105	0.00
26	T	2,2-Dichloropropane	0.959	0.865	9.8	95	0.00
27	T	cis-1,2-Dichloroethene	0.683	0.631	7.6	98	0.00
28	T	Bromochloromethane	0.439	0.483	-10.0	97	0.00
29	T	Tetrahydrofuran	0.224	0.220	1.8	102	0.00
30	C	Chloroform	1.121	1.061	5.4#	101	0.00
31	T	Cyclohexane	0.997	0.898	9.9	99	0.00
32	T	1,1,1-Trichloroethane	1.021	0.955	6.5	99	0.00
33	S	1,2-Dichloroethane-d4	0.722	0.687	4.8	98	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35	S	Dibromofluoromethane	0.338	0.322	4.7	97	0.00
36	T	1,1-Dichloropropene	0.469	0.435	7.2	100	0.00
37	T	Ethyl Acetate	0.426	0.410	3.8	101	0.00
38	T	Carbon Tetrachloride	0.525	0.484	7.8	98	0.00
39	T	Methylcyclohexane	0.478	0.477	0.2	98	0.00
40	TM	Benzene	1.507	1.395	7.4	100	0.00
41	T	Methacrylonitrile	0.229	0.238	-3.9	101	0.00
42	TM	1,2-Dichloroethane	0.488	0.460	5.7	97	0.00
43	T	Isopropyl Acetate	0.927	0.717	22.7	99	0.00
44	TM	Trichloroethene	0.348	0.311	10.6	97	0.00
45	C	1,2-Dichloropropane	0.354	0.334	5.6#	100	0.00
46	T	Dibromomethane	0.250	0.229	8.4	98	0.00
47	T	Bromodichloromethane	0.526	0.490	6.8	98	0.00
48	T	Methyl methacrylate	0.331	0.338	-2.1	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.006	0.006	0.0	107	0.00
50	S	Toluene-d8	1.247	1.206	3.3	96	0.00
51	T	4-Methyl-2-Pentanone	0.406	0.410	-1.0	101	0.00
52	CM	Toluene	0.882	0.857	2.8#	99	0.00
53	T	t-1,3-Dichloropropene	0.544	0.500	8.1	96	0.00
54	T	cis-1,3-Dichloropropene	0.576	0.540	6.2	97	0.00
55	T	1,1,2-Trichloroethane	0.332	0.316	4.8	100	0.00
56	T	Ethyl methacrylate	0.480	0.507	-5.6	98	0.00
57	T	1,3-Dichloropropane	0.570	0.544	4.6	100	0.00
58	T	2-Chloroethyl Vinyl ether	0.225	0.252	-12.0	100	0.00
59	T	2-Hexanone	0.296	0.302	-2.0	101	0.00
60	T	Dibromochloromethane	0.378	0.372	1.6	98	0.00
61	T	1,2-Dibromoethane	0.340	0.316	7.1	98	0.00
62	S	4-Bromofluorobenzene	0.466	0.445	4.5	94	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64	T	Tetrachloroethene	0.333	0.302	9.3	101	0.00
65	PM	Chlorobenzene	1.119	1.004	10.3	99	0.00
66	T	1,1,1,2-Tetrachloroethane	0.389	0.360	7.5	100	0.00
67	C	Ethyl Benzene	1.867	1.804	3.4#	100	0.00
68	T	m/p-Xylenes	0.707	0.700	1.0	100	0.00
69	T	o-Xylene	0.661	0.668	-1.1	101	0.00
70	T	Styrene	1.154	1.144	0.9	99	0.00
71	P	Bromoform	0.293	0.270	7.8	96	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73	T	Isopropylbenzene	3.504	3.438	1.9	99	0.00
74	T	N-amyl acetate	1.491	1.464	1.8	99	0.00
75	P	1,1,2,2-Tetrachloroethane	1.170	1.031	11.9	99	0.00
76	T	1,2,3-Trichloropropane	0.999	0.859	14.0	100	0.00
77	T	Bromobenzene	0.942	0.838	11.0	98	0.00
78	T	n-propylbenzene	4.106	4.037	1.7	98	0.00
79	T	2-Chlorotoluene	2.683	2.572	4.1	101	0.00
80	T	1,3,5-Trimethylbenzene	2.904	2.946	-1.4	99	0.00
81	T	trans-1,4-Dichloro-2-butene	0.421	0.382	9.3	98	0.00
82	T	4-Chlorotoluene	2.823	2.532	10.3	96	0.00
83	T	tert-Butylbenzene	2.403	2.533	-5.4	103	0.00
84	T	1,2,4-Trimethylbenzene	2.997	3.000	-0.1	98	0.00
85	T	sec-Butylbenzene	3.395	3.383	0.4	99	0.00
86	T	p-Isopropyltoluene	2.784	2.872	-3.2	97	0.00
87	T	1,3-Dichlorobenzene	1.838	1.539	16.3	95	0.00
88	T	1,4-Dichlorobenzene	1.937	1.552	19.9	96	0.00
89	T	n-Butylbenzene	2.605	2.393	8.1	94	0.00
90	T	Hexachloroethane	0.621	0.541	12.9	95	0.00
91	T	1,2-Dichlorobenzene	1.766	1.546	12.5	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.237	0.216	8.9	103	0.00
93	T	1,2,4-Trichlorobenzene	0.967	0.779	19.4	93	0.00
94	T	Hexachlorobutadiene	0.425	0.336	20.9	94	0.00
95	T	Naphthalene	2.894	2.628	9.2	98	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.939	0.762	18.8	94	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_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	50.000	45.985	8.0	99	0.00
3	P	Chloromethane	50.000	45.299	9.4	94	0.00
4	C	Vinyl Chloride	50.000	46.430	7.1#	98	0.00
5	T	Bromomethane	50.000	43.494	13.0	99	-0.05
6	T	Chloroethane	50.000	46.348	7.3	97	-0.05
7	T	Trichlorofluoromethane	50.000	45.644	8.7	100	-0.02
8	T	Diethyl Ether	50.000	46.640	6.7	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	45.702	8.6	97	-0.01
10	T	Methyl Iodide	50.000	46.542	6.9	100	-0.02
11	T	Tert butyl alcohol	250.000	219.840	12.1	100	0.01
12	CM	1,1-Dichloroethene	50.000	45.338	9.3#	99	-0.01
13	T	Acrolein	250.000	218.362	12.7	97	0.00
14	T	Allyl chloride	50.000	47.975	4.0	100	-0.01
15	T	Acrylonitrile	250.000	236.747	5.3	99	0.00
16	T	Acetone	250.000	244.445	2.2	103	0.00
17	T	Carbon Disulfide	50.000	42.682	14.6	96	-0.01
18	T	Methyl Acetate	50.000	44.944	10.1	95	0.00
19	T	Methyl tert-butyl Ether	50.000	48.603	2.8	99	0.00
20	T	Methylene Chloride	50.000	45.716	8.6	99	-0.01
21	T	trans-1,2-Dichloroethene	50.000	45.019	10.0	96	-0.01
22	T	Diisopropyl ether	50.000	48.739	2.5	99	0.00
23	T	Vinyl Acetate	250.000	247.614	1.0	99	0.00
24	P	1,1-Dichloroethane	50.000	46.408	7.2	99	-0.01
25	T	2-Butanone	250.000	237.635	4.9	105	0.00
26	T	2,2-Dichloropropane	50.000	45.103	9.8	95	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.214	7.6	98	0.00
28	T	Bromochloromethane	50.000	54.971	-9.9	97	0.00
29	T	Tetrahydrofuran	250.000	245.822	1.7	102	0.00
30	C	Chloroform	50.000	47.316	5.4#	101	0.00
31	T	Cyclohexane	50.000	45.053	9.9	99	0.00
32	T	1,1,1-Trichloroethane	50.000	46.774	6.5	99	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.560	4.9	98	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35	S	Dibromofluoromethane	50.000	47.522	5.0	97	0.00
36	T	1,1-Dichloropropene	50.000	46.370	7.3	100	0.00
37	T	Ethyl Acetate	50.000	48.154	3.7	101	0.00
38	T	Carbon Tetrachloride	50.000	46.145	7.7	98	0.00
39	T	Methylcyclohexane	50.000	49.969	0.1	98	0.00
40	TM	Benzene	50.000	46.273	7.5	100	0.00
41	T	Methacrylonitrile	50.000	51.964	-3.9	101	0.00
42	TM	1,2-Dichloroethane	50.000	47.118	5.8	97	0.00
43	T	Isopropyl Acetate	50.000	45.492	9.0	99	0.00
44	TM	Trichloroethene	50.000	44.732	10.5	97	0.00
45	C	1,2-Dichloropropane	50.000	47.196	5.6#	100	0.00
46	T	Dibromomethane	50.000	45.911	8.2	98	0.00
47	T	Bromodichloromethane	50.000	46.560	6.9	98	0.00
48	T	Methyl methacrylate	50.000	51.057	-2.1	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1063.992	-6.4	107	0.00
50	S	Toluene-d8	50.000	48.359	3.3	96	0.00
51	T	4-Methyl-2-Pentanone	250.000	252.729	-1.1	101	0.00
52	CM	Toluene	50.000	48.616	2.8#	99	0.00
53	T	t-1,3-Dichloropropene	50.000	45.911	8.2	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	46.832	6.3	97	0.00
55	T	1,1,2-Trichloroethane	50.000	47.618	4.8	100	0.00
56	T	Ethyl methacrylate	50.000	52.764	-5.5	98	0.00
57	T	1,3-Dichloropropane	50.000	47.765	4.5	100	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	280.013	-12.0	100	0.00
59	T	2-Hexanone	250.000	255.570	-2.2	101	0.00
60	T	Dibromochloromethane	50.000	49.079	1.8	98	0.00
61	T	1,2-Dibromoethane	50.000	46.393	7.2	98	0.00
62	S	4-Bromofluorobenzene	50.000	47.715	4.6	94	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64	T	Tetrachloroethene	50.000	45.436	9.1	101	0.00
65	PM	Chlorobenzene	50.000	44.872	10.3	99	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	46.323	7.4	100	0.00
67	C	Ethyl Benzene	50.000	48.319	3.4#	100	0.00
68	T	m/p-Xylenes	100.000	98.979	1.0	100	0.00
69	T	o-Xylene	50.000	50.538	-1.1	101	0.00
70	T	Styrene	50.000	49.600	0.8	99	0.00
71	P	Bromoform	50.000	46.166	7.7	96	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73	T	Isopropylbenzene	50.000	49.063	1.9	99	0.00
74	T	N-amyl acetate	50.000	49.076	1.8	99	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	44.058	11.9	99	0.00
76	T	1,2,3-Trichloropropane	50.000	42.988	14.0	100	0.00
77	T	Bromobenzene	50.000	44.500	11.0	98	0.00
78	T	n-propylbenzene	50.000	49.156	1.7	98	0.00
79	T	2-Chlorotoluene	50.000	47.930	4.1	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.714	-1.4	99	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.300	9.4	98	0.00
82	T	4-Chlorotoluene	50.000	44.837	10.3	96	0.00
83	T	tert-Butylbenzene	50.000	52.701	-5.4	103	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.053	-0.1	98	0.00
85	T	sec-Butylbenzene	50.000	49.829	0.3	99	0.00
86	T	p-Isopropyltoluene	50.000	51.568	-3.1	97	0.00
87	T	1,3-Dichlorobenzene	50.000	41.852	16.3	95	0.00
88	T	1,4-Dichlorobenzene	50.000	45.904	8.2	96	0.00
89	T	n-Butylbenzene	50.000	45.941	8.1	94	0.00
90	T	Hexachloroethane	50.000	43.597	12.8	95	0.00
91	T	1,2-Dichlorobenzene	50.000	43.765	12.5	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.651	8.7	103	0.00
93	T	1,2,4-Trichlorobenzene	50.000	40.290	19.4	93	0.00
94	T	Hexachlorobutadiene	50.000	39.544	20.9	94	0.00
95	T	Naphthalene	50.000	45.408	9.2	98	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	40.595	18.8	94	0.00

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_N Calibration Date/Time: 11/08/2024 09:39

Lab File ID: VN084737.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.618	0.547		-11.49	20
1,1-Dichloroethene	0.569	0.508		-10.72	20
2-Butanone	0.337	0.361		7.12	20
Carbon Tetrachloride	0.525	0.529		0.76	20
Chloroform	1.121	1.095		-2.32	20
Benzene	1.507	1.426		-5.38	20
1,2-Dichloroethane	0.488	0.484		-0.82	20
Trichloroethene	0.348	0.335		-3.74	20
Tetrachloroethene	0.333	0.341		2.4	20
Chlorobenzene	1.119	1.084	0.3	-3.13	20
1,2-Dichloroethane-d4	0.722	0.672		-6.93	20
Dibromofluoromethane	0.338	0.337		-0.3	20
Toluene-d8	1.247	1.241		-0.48	20
4-Bromofluorobenzene	0.466	0.466		0	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084737.D
Acq On : 08 Nov 2024 09:39
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 22:24:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/09/2024
Supervised By :Mahesh Dadoda 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	183021	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	298323	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	261810	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	135765	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	122973	46.520	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.040%			
35) Dibromofluoromethane	8.165	113	100644	49.841	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.680%			
50) Toluene-d8	10.565	98	370307	49.783	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.560%			
62) 4-Bromofluorobenzene	12.847	95	138983	49.994	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	92598	44.011	ug/l	96
3) Chloromethane	2.359	50	101929	40.824	ug/l	99
4) Vinyl Chloride	2.512	62	100170	44.265	ug/l	97
5) Bromomethane	2.900	94	52604	43.874	ug/l	93
6) Chloroethane	3.071	64	65338	46.548	ug/l	98
7) Trichlorofluoromethane	3.465	101	173596	46.569	ug/l	98
8) Diethyl Ether	3.953	74	62208	47.307	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.347	101	100421	47.675	ug/l	98
10) Methyl Iodide	4.577	142	133872	47.554	ug/l	96
11) Tert butyl alcohol	5.536	59	92292	264.502	ug/l	99
12) 1,1-Dichloroethene	4.324	96	93006	44.624	ug/l	96
13) Acrolein	4.171	56	83660	240.444	ug/l	100
14) Allyl chloride	5.006	41	155453	45.991	ug/l	94
15) Acrylonitrile	5.712	53	254557	252.005	ug/l	100
16) Acetone	4.424	43	217622	285.402	ug/l	94
17) Carbon Disulfide	4.694	76	250866	39.085	ug/l	97
18) Methyl Acetate	5.018	43	124668	44.235	ug/l	95
19) Methyl tert-butyl Ether	5.794	73	327032	51.192	ug/l	99
20) Methylene Chloride	5.265	84	106110	45.640	ug/l	89
21) trans-1,2-Dichloroethene	5.777	96	95494	44.620	ug/l	94
22) Diisopropyl ether	6.671	45	324001	48.241	ug/l	97
23) Vinyl Acetate	6.594	43	1174644	253.614	ug/l	98
24) 1,1-Dichloroethane	6.559	63	188032	46.632	ug/l	98
25) 2-Butanone	7.483	43	330172	267.725	ug/l	96
26) 2,2-Dichloropropane	7.488	77	175211	49.924	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	118386	47.375	ug/l	97
28) Bromochloromethane	7.812	49	85591	53.278	ug/l	92
29) Tetrahydrofuran	7.835	42	214543	262.227	ug/l	97
30) Chloroform	7.959	83	200430	48.836	ug/l	99
31) Cyclohexane	8.253	56	154078	42.218	ug/l	94
32) 1,1,1-Trichloroethane	8.165	97	180989	48.451	ug/l	99
36) 1,1-Dichloropropene	8.365	75	133944	47.829	ug/l	99
37) Ethyl Acetate	7.559	43	130931	51.530	ug/l	98
38) Carbon Tetrachloride	8.359	117	157953	50.460	ug/l	98
39) Methylcyclohexane	9.600	83	149896	52.613	ug/l	98
40) Benzene	8.600	78	425418	47.302	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084737.D
Acq On : 08 Nov 2024 09:39
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 22:24:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/09/2024
Supervised By :Mahesh Dadoda 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	72885	53.342	ug/l		94
42) 1,2-Dichloroethane	8.665	62	144374	49.567	ug/l		99
43) Isopropyl Acetate	8.682	43	224692	47.825	ug/l		96
44) Trichloroethene	9.347	130	99881	48.155	ug/l		99
45) 1,2-Dichloropropane	9.618	63	104146	49.364	ug/l		100
46) Dibromomethane	9.706	93	73439	49.331	ug/l		97
47) Bromodichloromethane	9.882	83	156706	49.937	ug/l		97
48) Methyl methacrylate	9.677	41	105291	53.245	ug/l		96
49) 1,4-Dioxane	9.694	88	37425	1067.991	ug/l	#	80
51) 4-Methyl-2-Pentanone	10.441	43	660493	272.681	ug/l		98
52) Toluene	10.629	92	267694	50.893	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	161582	49.744	ug/l		100
54) cis-1,3-Dichloropropene	10.306	75	173736	50.535	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	100973	50.961	ug/l		97
56) Ethyl methacrylate	10.871	69	163651	57.102	ug/l		95
57) 1,3-Dichloropropane	11.159	76	172274	50.662	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	368650	274.890	ug/l		96
59) 2-Hexanone	11.194	43	509612	289.044	ug/l		97
60) Dibromochloromethane	11.359	129	121279	53.707	ug/l		100
61) 1,2-Dibromoethane	11.470	107	102488	50.512	ug/l		99
64) Tetrachloroethene	11.100	164	89341	51.302	ug/l		98
65) Chlorobenzene	11.888	112	283901	48.471	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	103384	50.745	ug/l		99
67) Ethyl Benzene	11.965	91	507373	51.895	ug/l		100
68) m/p-Xylenes	12.070	106	383793	103.688	ug/l		99
69) o-Xylene	12.400	106	184608	53.315	ug/l		99
70) Styrene	12.412	104	319310	52.864	ug/l		99
71) Bromoform	12.576	173	82231	53.640	ug/l	#	97
73) Isopropylbenzene	12.694	105	476637	50.098	ug/l		99
74) N-amyl acetate	12.494	43	200629	49.546	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.935	83	148221	46.674	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	119343m	43.975	ug/l		
77) Bromobenzene	12.976	156	118331	46.265	ug/l		93
78) n-propylbenzene	13.035	91	560738	50.296	ug/l		98
79) 2-Chlorotoluene	13.123	91	353328	48.502	ug/l		98
80) 1,3,5-Trimethylbenzene	13.170	105	412425	52.302	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	61265	53.556	ug/l		98
82) 4-Chlorotoluene	13.217	91	358231	46.727	ug/l		99
83) tert-Butylbenzene	13.435	119	338852	51.922	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	419220	51.510	ug/l		99
85) sec-Butylbenzene	13.612	105	477749	51.824	ug/l		100
86) p-Isopropyltoluene	13.729	119	406434	53.758	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	223773	44.831	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	224268	48.971	ug/l		99
89) n-Butylbenzene	14.053	91	347239	49.100	ug/l		99
90) Hexachloroethane	14.335	117	75759	44.933	ug/l		93
91) 1,2-Dichlorobenzene	14.106	146	222960	46.484	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	31339	48.712	ug/l		96
93) 1,2,4-Trichlorobenzene	15.388	180	120654	45.957	ug/l		99
94) Hexachlorobutadiene	15.500	225	54821	47.550	ug/l		98
95) Naphthalene	15.641	128	388305	49.414	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	118192	46.377	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084737.D
Acq On : 08 Nov 2024 09:39
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 22:24:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/09/2024
Supervised By :Mahesh Dadoda 11/11/2024

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

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

Sample Results: **VN084737.D**

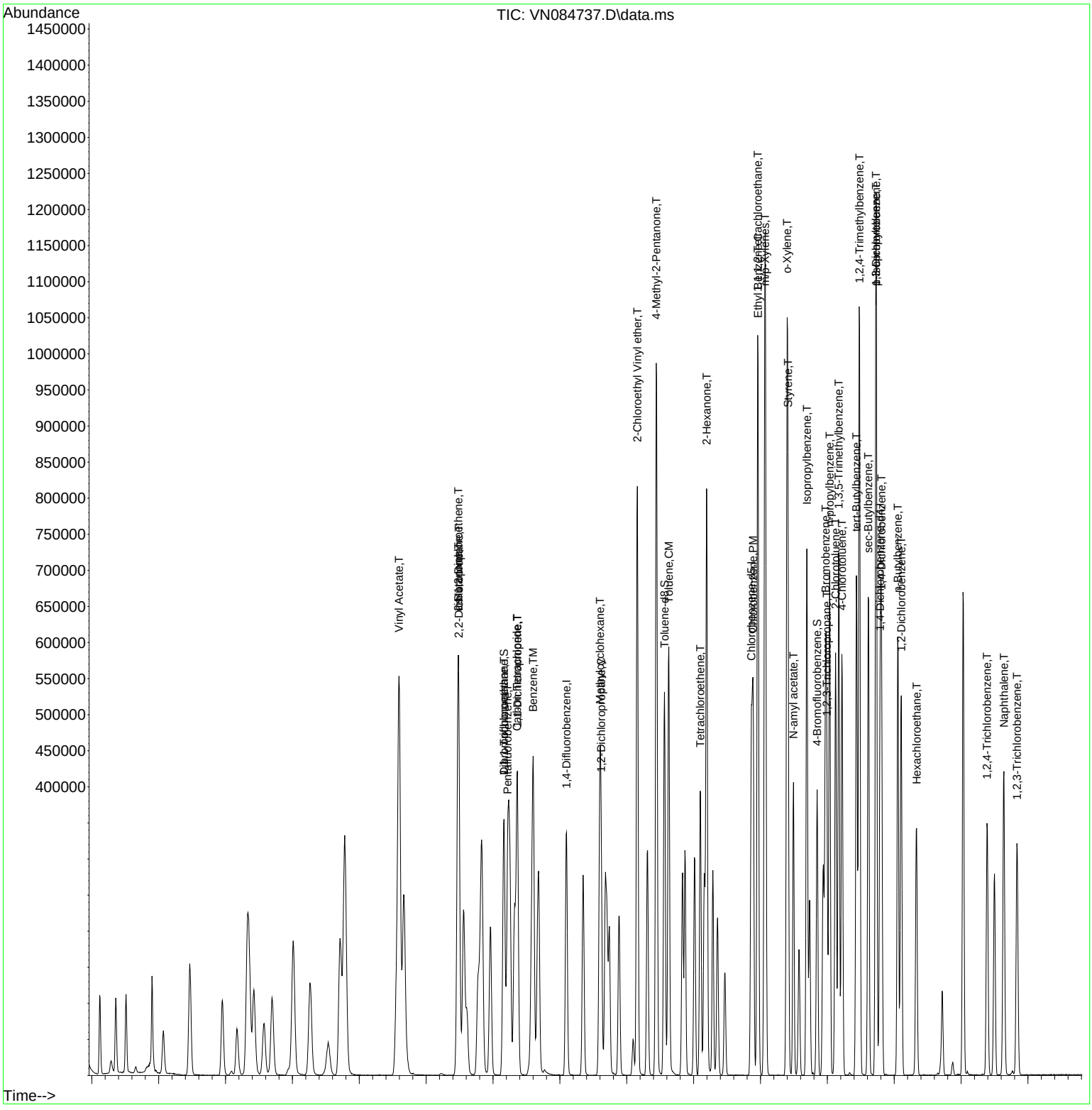
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084737.D
Acq On : 08 Nov 2024 09:39
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 22:24:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/09/2024
Supervised By :Mahesh Dadoda 11/11/2024



Sample Results: **VN084737.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084737.D
Acq On : 08 Nov 2024 09:39
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 08 22:24:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	0.575	0.506	12.0	90	0.00
3	P	Chloromethane	0.952	0.557	41.5#	81	0.00
4	C	Vinyl Chloride	0.618	0.547	11.5#	89	0.00
5	T	Bromomethane	0.328	0.287	12.5	95	-0.05
6	T	Chloroethane	0.488	0.357	26.8#	93	-0.05
7	T	Trichlorofluoromethane	1.018	0.949	6.8	97	-0.03
8	T	Diethyl Ether	0.359	0.340	5.3	94	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.575	0.549	4.5	97	-0.02
10	T	Methyl Iodide	0.769	0.731	4.9	98	-0.02
11	T	Tert butyl alcohol	0.095	0.101	-6.3	115	0.01
12	CM	1,1-Dichloroethene	0.569	0.508	10.7#	93	-0.02
13	T	Acrolein	0.095	0.091	4.2	102	0.00
14	T	Allyl chloride	0.923	0.849	8.0	91	-0.02
15	T	Acrylonitrile	0.276	0.278	-0.7	101	0.00
16	T	Acetone	0.238	0.238	0.0	115	0.00
17	T	Carbon Disulfide	1.753	1.371	21.8	84	-0.02
18	T	Methyl Acetate	1.172	0.681	41.9#	89	0.00
19	T	Methyl tert-butyl Ether	1.745	1.787	-2.4	100	0.00
20	T	Methylene Chloride	0.635	0.580	8.7	95	-0.01
21	T	trans-1,2-Dichloroethene	0.585	0.522	10.8	91	-0.01
22	T	Diisopropyl ether	1.835	1.770	3.5	94	0.00
23	T	Vinyl Acetate	1.265	1.284	-1.5	97	0.00
24	P	1,1-Dichloroethane	1.102	1.027	6.8	95	-0.01
25	T	2-Butanone	0.337	0.361	-7.1	112	0.00
26	T	2,2-Dichloropropane	0.959	0.957	0.2	100	0.00
27	T	cis-1,2-Dichloroethene	0.683	0.647	5.3	96	0.00
28	T	Bromochloromethane	0.439	0.468	-6.6	90	0.00
29	T	Tetrahydrofuran	0.224	0.234	-4.5	104	0.00
30	C	Chloroform	1.121	1.095	2.3#	99	0.00
31	T	Cyclohexane	0.997	0.842	15.5	88	0.00
32	T	1,1,1-Trichloroethane	1.021	0.989	3.1	98	0.00
33	S	1,2-Dichloroethane-d4	0.722	0.672	6.9	91	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
35	S	Dibromofluoromethane	0.338	0.337	0.3	94	0.00
36	T	1,1-Dichloropropene	0.469	0.449	4.3	95	0.00
37	T	Ethyl Acetate	0.426	0.439	-3.1	100	0.00
38	T	Carbon Tetrachloride	0.525	0.529	-0.8	99	0.00
39	T	Methylcyclohexane	0.478	0.502	-5.0	95	0.00
40	TM	Benzene	1.507	1.426	5.4	94	0.00
41	T	Methacrylonitrile	0.229	0.244	-6.6	95	0.00
42	TM	1,2-Dichloroethane	0.488	0.484	0.8	94	0.00
43	T	Isopropyl Acetate	0.927	0.753	18.8	95	0.00
44	TM	Trichloroethene	0.348	0.335	3.7	96	0.00
45	C	1,2-Dichloropropane	0.354	0.349	1.4#	96	0.00
46	T	Dibromomethane	0.250	0.246	1.6	97	0.00
47	T	Bromodichloromethane	0.526	0.525	0.2	97	0.00
48	T	Methyl methacrylate	0.331	0.353	-6.6	98	0.00

Sample Results: **VN084737.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084737.D
Acq On : 08 Nov 2024 09:39
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 08 22:24:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.006	0.006	0.0	99	0.00
50	S	Toluene-d8	1.247	1.241	0.5	91	0.00
51	T	4-Methyl-2-Pentanone	0.406	0.443	-9.1	100	0.00
52	CM	Toluene	0.882	0.897	-1.7#	96	0.00
53	T	t-1,3-Dichloropropene	0.544	0.542	0.4	96	0.00
54	T	cis-1,3-Dichloropropene	0.576	0.582	-1.0	96	0.00
55	T	1,1,2-Trichloroethane	0.332	0.338	-1.8	99	0.00
56	T	Ethyl methacrylate	0.480	0.549	-14.4	97	0.00
57	T	1,3-Dichloropropane	0.570	0.577	-1.2	98	0.00
58	T	2-Chloroethyl Vinyl ether	0.225	0.247	-9.8	90	0.00
59	T	2-Hexanone	0.296	0.342	-15.5	105	0.00
60	T	Dibromochloromethane	0.378	0.407	-7.7	99	0.00
61	T	1,2-Dibromoethane	0.340	0.344	-1.2	99	0.00
62	S	4-Bromofluorobenzene	0.466	0.466	0.0	90	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	T	Tetrachloroethene	0.333	0.341	-2.4	102	0.00
65	PM	Chlorobenzene	1.119	1.084	3.1	96	0.00
66	T	1,1,1,2-Tetrachloroethane	0.389	0.395	-1.5	99	0.00
67	C	Ethyl Benzene	1.867	1.938	-3.8#	96	0.00
68	T	m/p-Xylenes	0.707	0.733	-3.7	94	0.00
69	T	o-Xylene	0.661	0.705	-6.7	96	0.00
70	T	Styrene	1.154	1.220	-5.7	95	0.00
71	P	Bromoform	0.293	0.314	-7.2	100	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	3.504	3.511	-0.2	97	0.00
74	T	N-amyl acetate	1.491	1.478	0.9	95	0.00
75	P	1,1,2,2-Tetrachloroethane	1.170	1.092	6.7	100	0.00
76	T	1,2,3-Trichloropropane	0.999	0.879	12.0	97	0.00
77	T	Bromobenzene	0.942	0.872	7.4	97	0.00
78	T	n-propylbenzene	4.106	4.130	-0.6	96	0.00
79	T	2-Chlorotoluene	2.683	2.602	3.0	97	0.00
80	T	1,3,5-Trimethylbenzene	2.904	3.038	-4.6	97	0.00
81	T	trans-1,4-Dichloro-2-butene	0.421	0.451	-7.1	110	0.00
82	T	4-Chlorotoluene	2.823	2.639	6.5	95	0.00
83	T	tert-Butylbenzene	2.403	2.496	-3.9	97	0.00
84	T	1,2,4-Trimethylbenzene	2.997	3.088	-3.0	96	0.00
85	T	sec-Butylbenzene	3.395	3.519	-3.7	98	0.00
86	T	p-Isopropyltoluene	2.784	2.994	-7.5	96	0.00
87	T	1,3-Dichlorobenzene	1.838	1.648	10.3	97	0.00
88	T	1,4-Dichlorobenzene	1.937	1.652	14.7	97	0.00
89	T	n-Butylbenzene	2.605	2.558	1.8	96	0.00
90	T	Hexachloroethane	0.621	0.558	10.1	93	0.00
91	T	1,2-Dichlorobenzene	1.766	1.642	7.0	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.237	0.231	2.5	105	0.00
93	T	1,2,4-Trichlorobenzene	0.967	0.889	8.1	101	0.00
94	T	Hexachlorobutadiene	0.425	0.404	4.9	107	0.00
95	T	Naphthalene	2.894	2.860	1.2	101	0.00

Sample Results: **VN084737.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084737.D
Acq On : 08 Nov 2024 09:39
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 08 22:24:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.939	0.871	7.2	102	0.00

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

Sample Results: **VN084737.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084737.D
Acq On : 08 Nov 2024 09:39
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 08 22:24:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	50.000	44.011	12.0	90	0.00
3	P	Chloromethane	50.000	40.824	18.4	81	0.00
4	C	Vinyl Chloride	50.000	44.265	11.5#	89	0.00
5	T	Bromomethane	50.000	43.874	12.3	95	-0.05
6	T	Chloroethane	50.000	46.548	6.9	93	-0.05
7	T	Trichlorofluoromethane	50.000	46.569	6.9	97	-0.03
8	T	Diethyl Ether	50.000	47.307	5.4	94	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.675	4.7	97	-0.02
10	T	Methyl Iodide	50.000	47.554	4.9	98	-0.02
11	T	Tert butyl alcohol	250.000	264.502	-5.8	115	0.01
12	CM	1,1-Dichloroethene	50.000	44.624	10.8#	93	-0.02
13	T	Acrolein	250.000	240.444	3.8	102	0.00
14	T	Allyl chloride	50.000	45.991	8.0	91	-0.02
15	T	Acrylonitrile	250.000	252.005	-0.8	101	0.00
16	T	Acetone	250.000	285.402	-14.2	115	0.00
17	T	Carbon Disulfide	50.000	39.085	21.8	84	-0.02
18	T	Methyl Acetate	50.000	44.235	11.5	89	0.00
19	T	Methyl tert-butyl Ether	50.000	51.192	-2.4	100	0.00
20	T	Methylene Chloride	50.000	45.640	8.7	95	-0.01
21	T	trans-1,2-Dichloroethene	50.000	44.620	10.8	91	-0.01
22	T	Diisopropyl ether	50.000	48.241	3.5	94	0.00
23	T	Vinyl Acetate	250.000	253.614	-1.4	97	0.00
24	P	1,1-Dichloroethane	50.000	46.632	6.7	95	-0.01
25	T	2-Butanone	250.000	267.725	-7.1	112	0.00
26	T	2,2-Dichloropropane	50.000	49.924	0.2	100	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.375	5.3	96	0.00
28	T	Bromochloromethane	50.000	53.278	-6.6	90	0.00
29	T	Tetrahydrofuran	250.000	262.227	-4.9	104	0.00
30	C	Chloroform	50.000	48.836	2.3#	99	0.00
31	T	Cyclohexane	50.000	42.218	15.6	88	0.00
32	T	1,1,1-Trichloroethane	50.000	48.451	3.1	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	46.520	7.0	91	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	96	0.00
35	S	Dibromofluoromethane	50.000	49.841	0.3	94	0.00
36	T	1,1-Dichloropropene	50.000	47.829	4.3	95	0.00
37	T	Ethyl Acetate	50.000	51.530	-3.1	100	0.00
38	T	Carbon Tetrachloride	50.000	50.460	-0.9	99	0.00
39	T	Methylcyclohexane	50.000	52.613	-5.2	95	0.00
40	TM	Benzene	50.000	47.302	5.4	94	0.00
41	T	Methacrylonitrile	50.000	53.342	-6.7	95	0.00
42	TM	1,2-Dichloroethane	50.000	49.567	0.9	94	0.00
43	T	Isopropyl Acetate	50.000	47.825	4.3	95	0.00
44	TM	Trichloroethene	50.000	48.155	3.7	96	0.00
45	C	1,2-Dichloropropane	50.000	49.364	1.3#	96	0.00
46	T	Dibromomethane	50.000	49.331	1.3	97	0.00
47	T	Bromodichloromethane	50.000	49.937	0.1	97	0.00
48	T	Methyl methacrylate	50.000	53.245	-6.5	98	0.00

Sample Results: **VN084737.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084737.D
Acq On : 08 Nov 2024 09:39
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 08 22:24:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1067.991	-6.8	99	0.00
50	S	Toluene-d8	50.000	49.783	0.4	91	0.00
51	T	4-Methyl-2-Pentanone	250.000	272.681	-9.1	100	0.00
52	CM	Toluene	50.000	50.893	-1.8#	96	0.00
53	T	t-1,3-Dichloropropene	50.000	49.744	0.5	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.535	-1.1	96	0.00
55	T	1,1,2-Trichloroethane	50.000	50.961	-1.9	99	0.00
56	T	Ethyl methacrylate	50.000	57.102	-14.2	97	0.00
57	T	1,3-Dichloropropane	50.000	50.662	-1.3	98	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	274.890	-10.0	90	0.00
59	T	2-Hexanone	250.000	289.044	-15.6	105	0.00
60	T	Dibromochloromethane	50.000	53.707	-7.4	99	0.00
61	T	1,2-Dibromoethane	50.000	50.512	-1.0	99	0.00
62	S	4-Bromofluorobenzene	50.000	49.994	0.0	90	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64	T	Tetrachloroethene	50.000	51.302	-2.6	102	0.00
65	PM	Chlorobenzene	50.000	48.471	3.1	96	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.745	-1.5	99	0.00
67	C	Ethyl Benzene	50.000	51.895	-3.8#	96	0.00
68	T	m/p-Xylenes	100.000	103.688	-3.7	94	0.00
69	T	o-Xylene	50.000	53.315	-6.6	96	0.00
70	T	Styrene	50.000	52.864	-5.7	95	0.00
71	P	Bromoform	50.000	53.640	-7.3	100	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	50.098	-0.2	97	0.00
74	T	N-amyl acetate	50.000	49.546	0.9	95	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	46.674	6.7	100	0.00
76	T	1,2,3-Trichloropropane	50.000	43.975	12.0	97	0.00
77	T	Bromobenzene	50.000	46.265	7.5	97	0.00
78	T	n-propylbenzene	50.000	50.296	-0.6	96	0.00
79	T	2-Chlorotoluene	50.000	48.502	3.0	97	0.00
80	T	1,3,5-Trimethylbenzene	50.000	52.302	-4.6	97	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	53.556	-7.1	110	0.00
82	T	4-Chlorotoluene	50.000	46.727	6.5	95	0.00
83	T	tert-Butylbenzene	50.000	51.922	-3.8	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.510	-3.0	96	0.00
85	T	sec-Butylbenzene	50.000	51.824	-3.6	98	0.00
86	T	p-Isopropyltoluene	50.000	53.758	-7.5	96	0.00
87	T	1,3-Dichlorobenzene	50.000	44.831	10.3	97	0.00
88	T	1,4-Dichlorobenzene	50.000	48.971	2.1	97	0.00
89	T	n-Butylbenzene	50.000	49.100	1.8	96	0.00
90	T	Hexachloroethane	50.000	44.933	10.1	93	0.00
91	T	1,2-Dichlorobenzene	50.000	46.484	7.0	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.712	2.6	105	0.00
93	T	1,2,4-Trichlorobenzene	50.000	45.957	8.1	101	0.00
94	T	Hexachlorobutadiene	50.000	47.550	4.9	107	0.00
95	T	Naphthalene	50.000	49.414	1.2	101	0.00

Sample Results: **VN084737.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084737.D
Acq On : 08 Nov 2024 09:39
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 08 22:24:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	46.377	7.2	102	0.00

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_N Calibration Date/Time: 11/11/2024 10:54

Lab File ID: VN084763.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.618	0.542		-12.3	20
1,1-Dichloroethene	0.569	0.521		-8.44	20
2-Butanone	0.337	0.376		11.57	20
Carbon Tetrachloride	0.525	0.542		3.24	20
Chloroform	1.121	1.129		0.71	20
Benzene	1.507	1.478		-1.92	20
1,2-Dichloroethane	0.488	0.503		3.07	20
Trichloroethene	0.348	0.337		-3.16	20
Tetrachloroethene	0.333	0.338		1.5	20
Chlorobenzene	1.119	1.110	0.3	-0.8	20
1,2-Dichloroethane-d4	0.722	0.679		-5.96	20
Dibromofluoromethane	0.338	0.342		1.18	20
Toluene-d8	1.247	1.214		-2.65	20
4-Bromofluorobenzene	0.466	0.484		3.86	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084763.D
Acq On : 11 Nov 2024 10:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 11 11:50:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/11/2024
Supervised By :Mahesh Dadoda 11/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	166446	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	270648	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	238712	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	124434	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	113027	47.015	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 94.040%			
35) Dibromofluoromethane	8.165	113	92661	50.580	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.160%			
50) Toluene-d8	10.565	98	328558	48.687	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.380%			
62) 4-Bromofluorobenzene	12.847	95	131064	51.967	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	84174	43.991	ug/l	96
3) Chloromethane	2.359	50	91149	40.098	ug/l	98
4) Vinyl Chloride	2.512	62	90263	43.860	ug/l	98
5) Bromomethane	2.901	94	51203	46.958	ug/l	99
6) Chloroethane	3.077	64	60880	47.726	ug/l	96
7) Trichlorofluoromethane	3.471	101	163519	48.234	ug/l	97
8) Diethyl Ether	3.953	74	58712	49.095	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.359	101	91907	47.978	ug/l	97
10) Methyl Iodide	4.583	142	127633	49.853	ug/l	97
11) Tert butyl alcohol	5.530	59	86050	271.171	ug/l	98
12) 1,1-Dichloroethene	4.330	96	86792	45.789	ug/l	95
13) Acrolein	4.171	56	66268	209.424	ug/l	100
14) Allyl chloride	5.018	41	143357	46.636	ug/l	92
15) Acrylonitrile	5.712	53	247053	268.931	ug/l	98
16) Acetone	4.424	43	211776	305.595	ug/l	95
17) Carbon Disulfide	4.700	76	229303	39.283	ug/l	99
18) Methyl Acetate	5.018	43	124245	48.890	ug/l	96
19) Methyl tert-butyl Ether	5.795	73	308982	53.183	ug/l	96
20) Methylene Chloride	5.271	84	102299	48.382	ug/l	88
21) trans-1,2-Dichloroethene	5.777	96	91997	47.267	ug/l	97
22) Diisopropyl ether	6.665	45	301392	49.344	ug/l	97
23) Vinyl Acetate	6.600	43	1086820	258.019	ug/l	97
24) 1,1-Dichloroethane	6.559	63	176476	48.124	ug/l	99
25) 2-Butanone	7.483	43	312670	278.781	ug/l	99
26) 2,2-Dichloropropane	7.483	77	156025	48.884	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	111780	49.185	ug/l	94
28) Bromochloromethane	7.812	49	79339	54.304	ug/l	87
29) Tetrahydrofuran	7.836	42	199372	267.951	ug/l	93
30) Chloroform	7.965	83	187932	50.351	ug/l	99
31) Cyclohexane	8.253	56	141347	42.587	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	170235	50.110	ug/l	98
36) 1,1-Dichloropropene	8.371	75	119899	47.191	ug/l	98
37) Ethyl Acetate	7.553	43	126440	54.851	ug/l	98
38) Carbon Tetrachloride	8.359	117	146629	51.633	ug/l	97
39) Methylcyclohexane	9.600	83	131208	50.763	ug/l	98
40) Benzene	8.606	78	400092	49.035	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084763.D
Acq On : 11 Nov 2024 10:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 11 11:50:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/11/2024
Supervised By :Mahesh Dadoda 11/12/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	71755	57.885	ug/l		98
42) 1,2-Dichloroethane	8.665	62	136041	51.482	ug/l		99
43) Isopropyl Acetate	8.688	43	213108	50.042	ug/l		97
44) Trichloroethene	9.347	130	91293	48.515	ug/l		96
45) 1,2-Dichloropropane	9.618	63	98068	51.236	ug/l		97
46) Dibromomethane	9.706	93	70386	52.114	ug/l		95
47) Bromodichloromethane	9.882	83	153028	53.751	ug/l	#	96
48) Methyl methacrylate	9.677	41	98683	55.006	ug/l		93
49) 1,4-Dioxane	9.694	88	37307	1173.486	ug/l		98
51) 4-Methyl-2-Pentanone	10.441	43	647585	294.690	ug/l		97
52) Toluene	10.630	92	249401	52.263	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	147017	49.888	ug/l		100
54) cis-1,3-Dichloropropene	10.312	75	158062	50.677	ug/l		95
55) 1,1,2-Trichloroethane	11.012	97	96183	53.508	ug/l		97
56) Ethyl methacrylate	10.871	69	157941	60.744	ug/l		93
57) 1,3-Dichloropropane	11.159	76	162845	52.786	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	338599	278.300	ug/l		96
59) 2-Hexanone	11.194	43	478507	299.154	ug/l		96
60) Dibromochloromethane	11.359	129	118310	57.750	ug/l		100
61) 1,2-Dibromoethane	11.465	107	96259	52.293	ug/l		99
64) Tetrachloroethene	11.100	164	80569	50.742	ug/l		97
65) Chlorobenzene	11.888	112	264984	49.619	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.959	131	101669	54.732	ug/l		98
67) Ethyl Benzene	11.965	91	465784	52.251	ug/l		99
68) m/p-Xylenes	12.071	106	363586	107.734	ug/l		100
69) o-Xylene	12.400	106	178745	56.617	ug/l		98
70) Styrene	12.412	104	303645	55.134	ug/l		98
71) Bromoform	12.576	173	82078	58.721	ug/l	#	99
73) Isopropylbenzene	12.694	105	446708	51.228	ug/l		99
74) N-amyl acetate	12.494	43	188248	50.722	ug/l		95
75) 1,1,2,2-Tetrachloroethane	12.935	83	142997	49.129	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	118247m	47.539	ug/l		
77) Bromobenzene	12.976	156	113359	48.357	ug/l		93
78) n-propylbenzene	13.035	91	524800	51.358	ug/l		98
79) 2-Chlorotoluene	13.123	91	333703	49.979	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	393675	54.470	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	50917	48.563	ug/l		96
82) 4-Chlorotoluene	13.218	91	335959	47.812	ug/l		99
83) tert-Butylbenzene	13.435	119	335070	56.018	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	401540	53.831	ug/l		98
85) sec-Butylbenzene	13.612	105	446905	52.893	ug/l		100
86) p-Isopropyltoluene	13.729	119	381882	55.110	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	209698	45.837	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	207944	49.560	ug/l		99
89) n-Butylbenzene	14.053	91	312135	48.155	ug/l		99
90) Hexachloroethane	14.329	117	73088	47.297	ug/l		94
91) 1,2-Dichlorobenzene	14.106	146	207866	47.283	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30432	51.610	ug/l		94
93) 1,2,4-Trichlorobenzene	15.388	180	110955	46.111	ug/l		100
94) Hexachlorobutadiene	15.500	225	49394	46.744	ug/l		96
95) Naphthalene	15.641	128	367171	50.979	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	109885	47.044	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084763.D
Acq On : 11 Nov 2024 10:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 11 11:50:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/11/2024
Supervised By :Mahesh Dadoda 11/12/2024

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

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

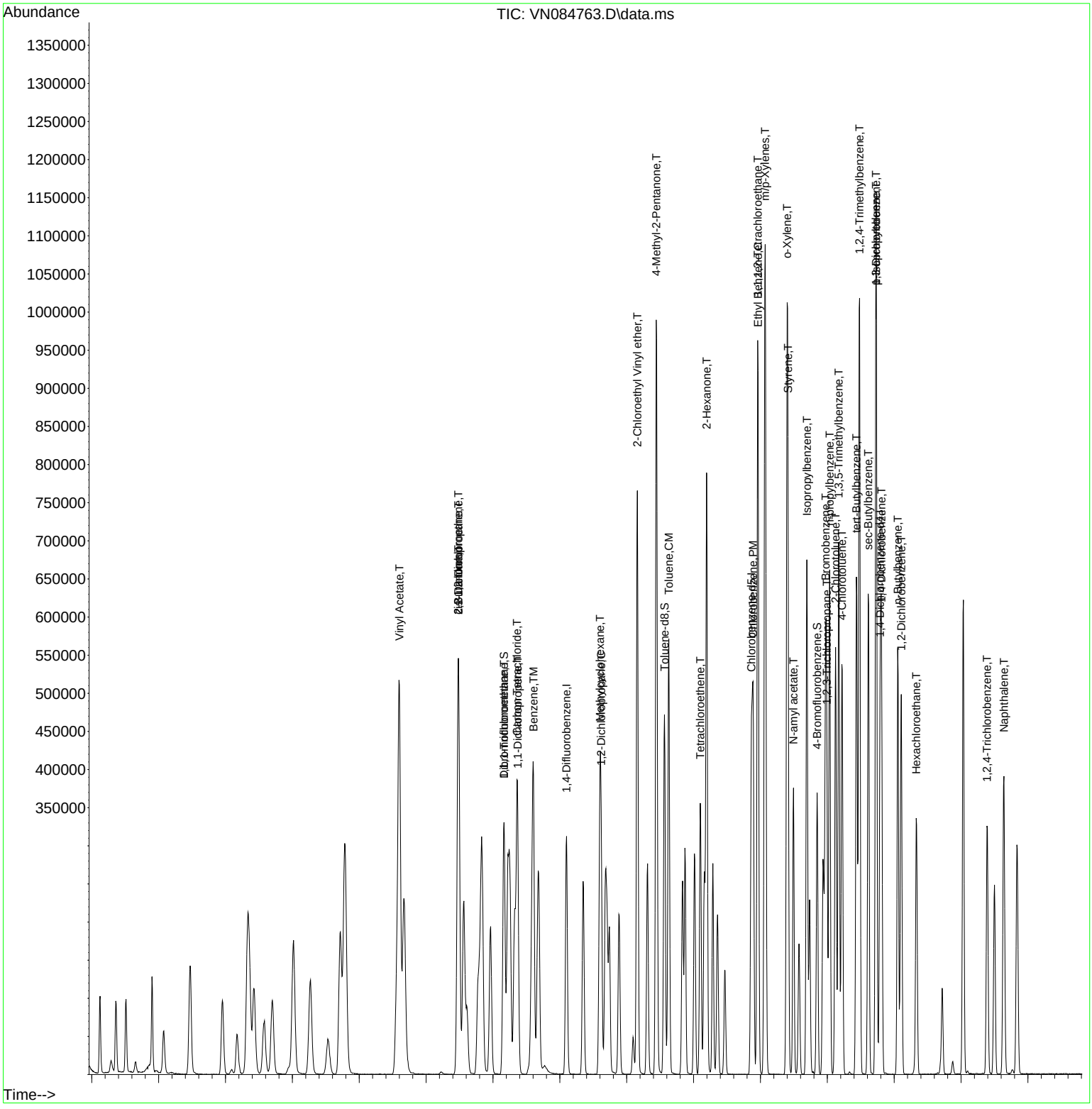
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084763.D
Acq On : 11 Nov 2024 10:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 11 11:50:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/11/2024
Supervised By :Mahesh Dadoda 11/12/2024



Sample Results: **VN084763.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084763.D
Acq On : 11 Nov 2024 10:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 11 11:50:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	0.575	0.506	12.0	82	0.00
3	P	Chloromethane	0.952	0.548	42.4#	73	0.00
4	C	Vinyl Chloride	0.618	0.542	12.3#	80	0.00
5	T	Bromomethane	0.328	0.308	6.1	93	-0.05
6	T	Chloroethane	0.488	0.366	25.0	87	-0.04
7	T	Trichlorofluoromethane	1.018	0.982	3.5	91	-0.02
8	T	Diethyl Ether	0.359	0.353	1.7	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.575	0.552	4.0	88	-0.01
10	T	Methyl Iodide	0.769	0.767	0.3	93	-0.01
11	T	Tert butyl alcohol	0.095	0.103	-8.4	107	0.00
12	CM	1,1-Dichloroethene	0.569	0.521	8.4#	86	-0.01
13	T	Acrolein	0.095	0.080	15.8	81	0.00
14	T	Allyl chloride	0.923	0.861	6.7	84	0.00
15	T	Acrylonitrile	0.276	0.297	-7.6	98	0.00
16	T	Acetone	0.238	0.254	-6.7	111	0.00
17	T	Carbon Disulfide	1.753	1.378	21.4	77	-0.01
18	T	Methyl Acetate	1.172	0.746	36.3#	89	0.00
19	T	Methyl tert-butyl Ether	1.745	1.856	-6.4	94	0.00
20	T	Methylene Chloride	0.635	0.615	3.1	91	0.00
21	T	trans-1,2-Dichloroethene	0.585	0.553	5.5	88	-0.01
22	T	Diisopropyl ether	1.835	1.811	1.3	87	0.00
23	T	Vinyl Acetate	1.265	1.306	-3.2	90	0.00
24	P	1,1-Dichloroethane	1.102	1.060	3.8	89	-0.01
25	T	2-Butanone	0.337	0.376	-11.6	106	0.00
26	T	2,2-Dichloropropane	0.959	0.937	2.3	89	0.00
27	T	cis-1,2-Dichloroethene	0.683	0.672	1.6	91	0.00
28	T	Bromochloromethane	0.439	0.477	-8.7	83	0.00
29	T	Tetrahydrofuran	0.224	0.240	-7.1	96	0.00
30	C	Chloroform	1.121	1.129	-0.7#	93	0.00
31	T	Cyclohexane	0.997	0.849	14.8	81	0.00
32	T	1,1,1-Trichloroethane	1.021	1.023	-0.2	92	0.00
33	S	1,2-Dichloroethane-d4	0.722	0.679	6.0	84	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	87	0.00
35	S	Dibromofluoromethane	0.338	0.342	-1.2	86	0.00
36	T	1,1-Dichloropropene	0.469	0.443	5.5	85	0.00
37	T	Ethyl Acetate	0.426	0.467	-9.6	96	0.00
38	T	Carbon Tetrachloride	0.525	0.542	-3.2	92	0.00
39	T	Methylcyclohexane	0.478	0.485	-1.5	83	0.00
40	TM	Benzene	1.507	1.478	1.9	89	0.00
41	T	Methacrylonitrile	0.229	0.265	-15.7	93	0.00
42	TM	1,2-Dichloroethane	0.488	0.503	-3.1	88	0.00
43	T	Isopropyl Acetate	0.927	0.787	15.1	90	0.00
44	TM	Trichloroethene	0.348	0.337	3.2	87	0.00
45	C	1,2-Dichloropropane	0.354	0.362	-2.3#	91	0.00
46	T	Dibromomethane	0.250	0.260	-4.0	93	0.00
47	T	Bromodichloromethane	0.526	0.565	-7.4	94	0.00
48	T	Methyl methacrylate	0.331	0.365	-10.3	92	0.00

Sample Results: **VN084763.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084763.D
Acq On : 11 Nov 2024 10:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 11 11:50:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.006	0.007	-16.7	99	0.00
50	S	Toluene-d8	1.247	1.214	2.6	81	0.00
51	T	4-Methyl-2-Pentanone	0.406	0.479	-18.0	98	0.00
52	CM	Toluene	0.882	0.921	-4.4#	89	0.00
53	T	t-1,3-Dichloropropene	0.544	0.543	0.2	87	0.00
54	T	cis-1,3-Dichloropropene	0.576	0.584	-1.4	87	0.00
55	T	1,1,2-Trichloroethane	0.332	0.355	-6.9	94	0.00
56	T	Ethyl methacrylate	0.480	0.584	-21.7	94	0.00
57	T	1,3-Dichloropropane	0.570	0.602	-5.6	93	0.00
58	T	2-Chloroethyl Vinyl ether	0.225	0.250	-11.1	83	0.00
59	T	2-Hexanone	0.296	0.354	-19.6	99	0.00
60	T	Dibromochloromethane	0.378	0.437	-15.6	96	0.00
61	T	1,2-Dibromoethane	0.340	0.356	-4.7	93	0.00
62	S	4-Bromofluorobenzene	0.466	0.484	-3.9	85	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00
64	T	Tetrachloroethene	0.333	0.338	-1.5	92	0.00
65	PM	Chlorobenzene	1.119	1.110	0.8	89	0.00
66	T	1,1,1,2-Tetrachloroethane	0.389	0.426	-9.5	97	0.00
67	C	Ethyl Benzene	1.867	1.951	-4.5#	88	0.00
68	T	m/p-Xylenes	0.707	0.762	-7.8	89	0.00
69	T	o-Xylene	0.661	0.749	-13.3	93	0.00
70	T	Styrene	1.154	1.272	-10.2	90	0.00
71	P	Bromoform	0.293	0.344	-17.4	100	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
73	T	Isopropylbenzene	3.504	3.590	-2.5	90	0.00
74	T	N-amyl acetate	1.491	1.513	-1.5	89	0.00
75	P	1,1,2,2-Tetrachloroethane	1.170	1.149	1.8	96	0.00
76	T	1,2,3-Trichloropropane	0.999	0.950	4.9	96	0.00
77	T	Bromobenzene	0.942	0.911	3.3	93	0.00
78	T	n-propylbenzene	4.106	4.217	-2.7	90	0.00
79	T	2-Chlorotoluene	2.683	2.682	0.0	92	0.00
80	T	1,3,5-Trimethylbenzene	2.904	3.164	-9.0	93	0.00
81	T	trans-1,4-Dichloro-2-butene	0.421	0.409	2.9	92	0.00
82	T	4-Chlorotoluene	2.823	2.700	4.4	89	0.00
83	T	tert-Butylbenzene	2.403	2.693	-12.1	96	0.00
84	T	1,2,4-Trimethylbenzene	2.997	3.227	-7.7	92	0.00
85	T	sec-Butylbenzene	3.395	3.592	-5.8	91	0.00
86	T	p-Isopropyltoluene	2.784	3.069	-10.2	91	0.00
87	T	1,3-Dichlorobenzene	1.838	1.685	8.3	91	0.00
88	T	1,4-Dichlorobenzene	1.937	1.671	13.7	90	0.00
89	T	n-Butylbenzene	2.605	2.508	3.7	86	0.00
90	T	Hexachloroethane	0.621	0.587	5.5	90	0.00
91	T	1,2-Dichlorobenzene	1.766	1.670	5.4	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.237	0.245	-3.4	101	0.00
93	T	1,2,4-Trichlorobenzene	0.967	0.892	7.8	93	0.00
94	T	Hexachlorobutadiene	0.425	0.397	6.6	97	0.00
95	T	Naphthalene	2.894	2.951	-2.0	95	0.00

Sample Results: **VN084763.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084763.D
Acq On : 11 Nov 2024 10:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 11 11:50:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.939	0.883	6.0	94	0.00

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

Sample Results: **VN084763.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084763.D
Acq On : 11 Nov 2024 10:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 11 11:50:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	50.000	43.991	12.0	82	0.00
3	P	Chloromethane	50.000	40.098	19.8	73	0.00
4	C	Vinyl Chloride	50.000	43.860	12.3#	80	0.00
5	T	Bromomethane	50.000	46.958	6.1	93	-0.05
6	T	Chloroethane	50.000	47.726	4.5	87	-0.04
7	T	Trichlorofluoromethane	50.000	48.234	3.5	91	-0.02
8	T	Diethyl Ether	50.000	49.095	1.8	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.978	4.0	88	-0.01
10	T	Methyl Iodide	50.000	49.853	0.3	93	-0.01
11	T	Tert butyl alcohol	250.000	271.171	-8.5	107	0.00
12	CM	1,1-Dichloroethene	50.000	45.789	8.4#	86	-0.01
13	T	Acrolein	250.000	209.424	16.2	81	0.00
14	T	Allyl chloride	50.000	46.636	6.7	84	0.00
15	T	Acrylonitrile	250.000	268.931	-7.6	98	0.00
16	T	Acetone	250.000	305.595	-22.2	111	0.00
17	T	Carbon Disulfide	50.000	39.283	21.4	77	-0.01
18	T	Methyl Acetate	50.000	48.890	2.2	89	0.00
19	T	Methyl tert-butyl Ether	50.000	53.183	-6.4	94	0.00
20	T	Methylene Chloride	50.000	48.382	3.2	91	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.267	5.5	88	-0.01
22	T	Diisopropyl ether	50.000	49.344	1.3	87	0.00
23	T	Vinyl Acetate	250.000	258.019	-3.2	90	0.00
24	P	1,1-Dichloroethane	50.000	48.124	3.8	89	-0.01
25	T	2-Butanone	250.000	278.781	-11.5	106	0.00
26	T	2,2-Dichloropropane	50.000	48.884	2.2	89	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.185	1.6	91	0.00
28	T	Bromochloromethane	50.000	54.304	-8.6	83	0.00
29	T	Tetrahydrofuran	250.000	267.951	-7.2	96	0.00
30	C	Chloroform	50.000	50.351	-0.7#	93	0.00
31	T	Cyclohexane	50.000	42.587	14.8	81	0.00
32	T	1,1,1-Trichloroethane	50.000	50.110	-0.2	92	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.015	6.0	84	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	87	0.00
35	S	Dibromofluoromethane	50.000	50.580	-1.2	86	0.00
36	T	1,1-Dichloropropene	50.000	47.191	5.6	85	0.00
37	T	Ethyl Acetate	50.000	54.851	-9.7	96	0.00
38	T	Carbon Tetrachloride	50.000	51.633	-3.3	92	0.00
39	T	Methylcyclohexane	50.000	50.763	-1.5	83	0.00
40	TM	Benzene	50.000	49.035	1.9	89	0.00
41	T	Methacrylonitrile	50.000	57.885	-15.8	93	0.00
42	TM	1,2-Dichloroethane	50.000	51.482	-3.0	88	0.00
43	T	Isopropyl Acetate	50.000	50.042	-0.1	90	0.00
44	TM	Trichloroethene	50.000	48.515	3.0	87	0.00
45	C	1,2-Dichloropropane	50.000	51.236	-2.5#	91	0.00
46	T	Dibromomethane	50.000	52.114	-4.2	93	0.00
47	T	Bromodichloromethane	50.000	53.751	-7.5	94	0.00
48	T	Methyl methacrylate	50.000	55.006	-10.0	92	0.00

Sample Results: **VN084763.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084763.D
Acq On : 11 Nov 2024 10:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 11 11:50:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1173.486	-17.3	99	0.00
50	S	Toluene-d8	50.000	48.687	2.6	81	0.00
51	T	4-Methyl-2-Pentanone	250.000	294.690	-17.9	98	0.00
52	CM	Toluene	50.000	52.263	-4.5#	89	0.00
53	T	t-1,3-Dichloropropene	50.000	49.888	0.2	87	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.677	-1.4	87	0.00
55	T	1,1,2-Trichloroethane	50.000	53.508	-7.0	94	0.00
56	T	Ethyl methacrylate	50.000	60.744	-21.5	94	0.00
57	T	1,3-Dichloropropane	50.000	52.786	-5.6	93	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	278.300	-11.3	83	0.00
59	T	2-Hexanone	250.000	299.154	-19.7	99	0.00
60	T	Dibromochloromethane	50.000	57.750	-15.5	96	0.00
61	T	1,2-Dibromoethane	50.000	52.293	-4.6	93	0.00
62	S	4-Bromofluorobenzene	50.000	51.967	-3.9	85	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	85	0.00
64	T	Tetrachloroethene	50.000	50.742	-1.5	92	0.00
65	PM	Chlorobenzene	50.000	49.619	0.8	89	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.732	-9.5	97	0.00
67	C	Ethyl Benzene	50.000	52.251	-4.5#	88	0.00
68	T	m/p-Xylenes	100.000	107.734	-7.7	89	0.00
69	T	o-Xylene	50.000	56.617	-13.2	93	0.00
70	T	Styrene	50.000	55.134	-10.3	90	0.00
71	P	Bromoform	50.000	58.721	-17.4	100	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	90	0.00
73	T	Isopropylbenzene	50.000	51.228	-2.5	90	0.00
74	T	N-amyl acetate	50.000	50.722	-1.4	89	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.129	1.7	96	0.00
76	T	1,2,3-Trichloropropane	50.000	47.539	4.9	96	0.00
77	T	Bromobenzene	50.000	48.357	3.3	93	0.00
78	T	n-propylbenzene	50.000	51.358	-2.7	90	0.00
79	T	2-Chlorotoluene	50.000	49.979	0.0	92	0.00
80	T	1,3,5-Trimethylbenzene	50.000	54.470	-8.9	93	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.563	2.9	92	0.00
82	T	4-Chlorotoluene	50.000	47.812	4.4	89	0.00
83	T	tert-Butylbenzene	50.000	56.018	-12.0	96	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.831	-7.7	92	0.00
85	T	sec-Butylbenzene	50.000	52.893	-5.8	91	0.00
86	T	p-Isopropyltoluene	50.000	55.110	-10.2	91	0.00
87	T	1,3-Dichlorobenzene	50.000	45.837	8.3	91	0.00
88	T	1,4-Dichlorobenzene	50.000	49.560	0.9	90	0.00
89	T	n-Butylbenzene	50.000	48.155	3.7	86	0.00
90	T	Hexachloroethane	50.000	47.297	5.4	90	0.00
91	T	1,2-Dichlorobenzene	50.000	47.283	5.4	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.610	-3.2	101	0.00
93	T	1,2,4-Trichlorobenzene	50.000	46.111	7.8	93	0.00
94	T	Hexachlorobutadiene	50.000	46.744	6.5	97	0.00
95	T	Naphthalene	50.000	50.979	-2.0	95	0.00

Sample Results: **VN084763.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084763.D
Acq On : 11 Nov 2024 10:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 11 11:50:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	47.044	5.9	94	0.00

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

QC SAMPLE DATA

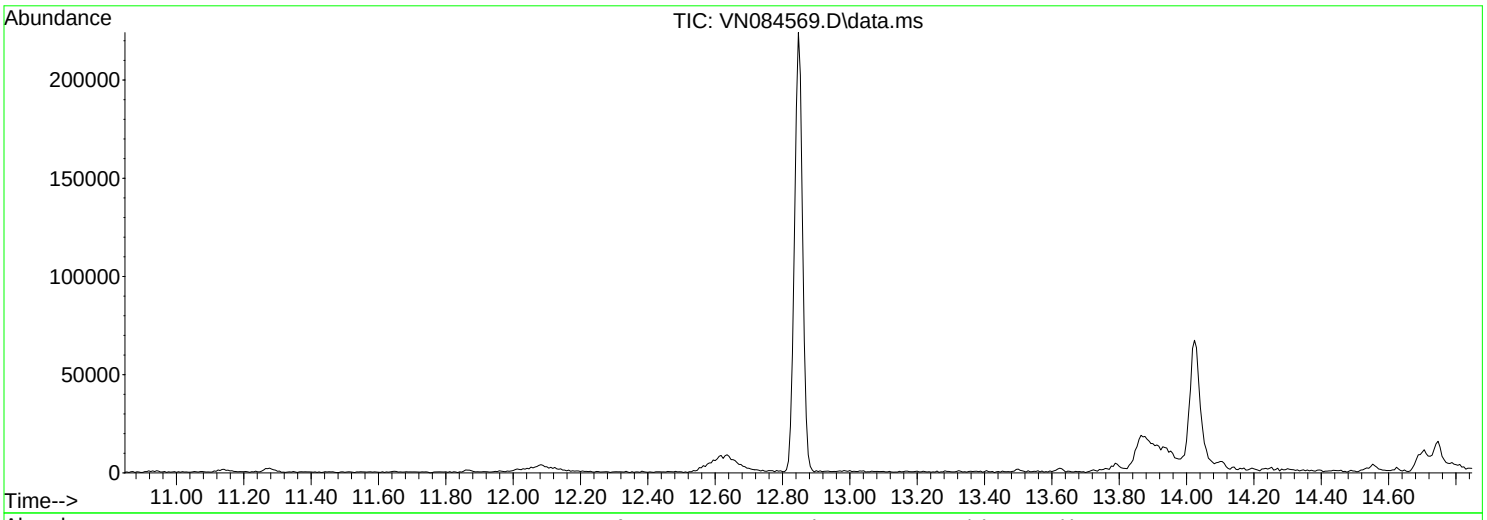
Sample Results: **VN084569.D**

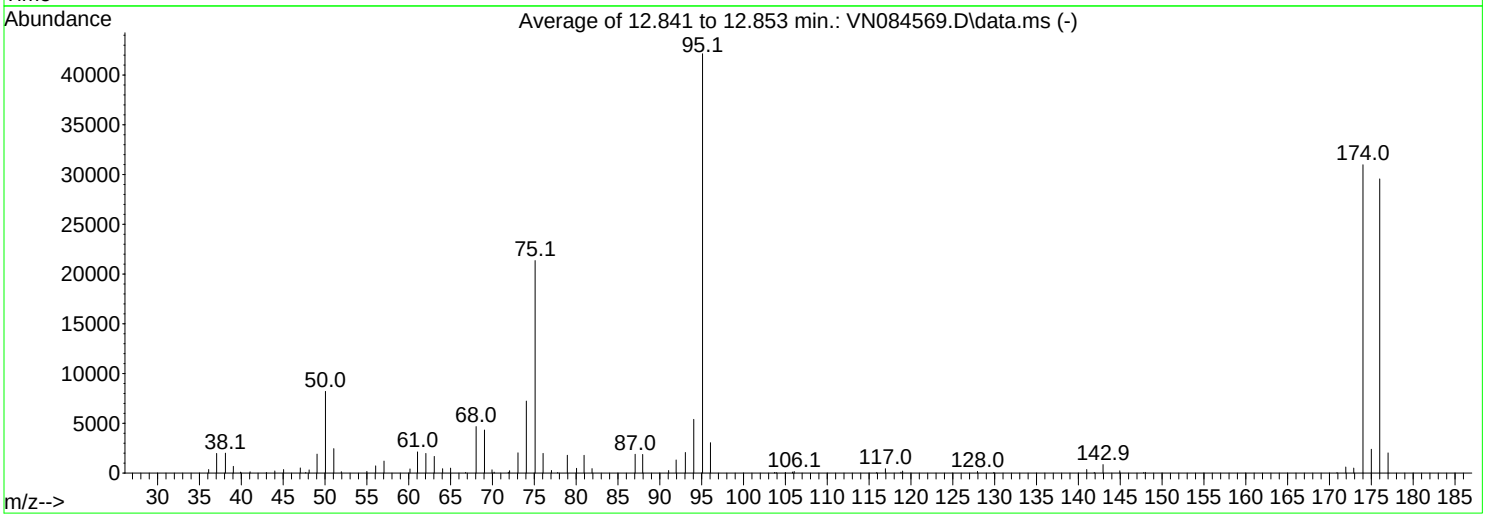
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084569.D
Acq On : 30 Oct 2024 10:42
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Title : SW846 8260
Last Update : Thu Oct 31 18:45:38 2024





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	8210	PASS
75	95	30	60	50.7	21357	PASS
95	95	100	100	100.0	42141	PASS
96	95	5	9	7.2	3053	PASS
173	174	0.00	2	1.6	502	PASS
174	95	50	100	73.5	30984	PASS
175	174	5	9	7.7	2392	PASS
176	174	95	101	95.4	29560	PASS
177	176	5	9	6.9	2026	PASS

Average of 12.841 to 12.853 min.: VN084569.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	359	48.10	321	63.05	1677	74.05	7235
37.05	1972	49.05	1905	64.05	441	75.10	21357
38.10	2004	50.05	8210	65.00	496	76.05	1981
39.05	674	51.05	2454	66.80	70	77.05	266
39.90	98	51.95	137	68.05	4674	77.80	63
41.05	129	55.00	174	69.05	4327	78.95	1789
43.00	58	56.05	724	69.95	329	80.05	481
44.00	211	57.05	1205	70.20	94	80.95	1784
45.05	351	60.15	415	71.90	82	81.90	450
47.05	515	61.05	2127	72.05	237	87.05	1893
47.70	66	62.05	1973	73.05	2035	87.95	1870

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN084569.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	256	115.90	54	148.00	75		
91.95	1316	116.95	438	170.90	52		
93.05	2070	118.80	90	171.95	607		
94.05	5401	119.00	202	172.90	502		
95.10	42141	127.95	162	174.00	30984		
96.05	3053	129.90	69	175.00	2392		
103.70	65	141.00	358	176.00	29560		
103.90	65	141.90	66	177.00	2026		
105.00	53	142.95	857				
105.85	107	144.95	228				
106.05	162	147.80	53				

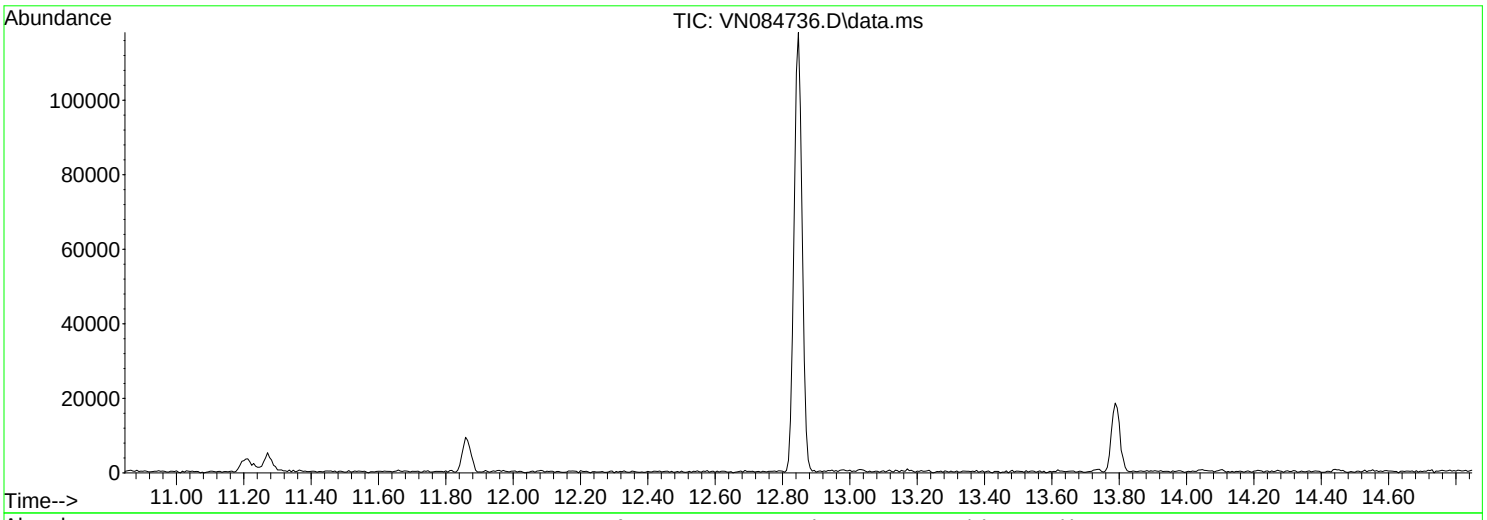
Sample Results: **VN084736.D**

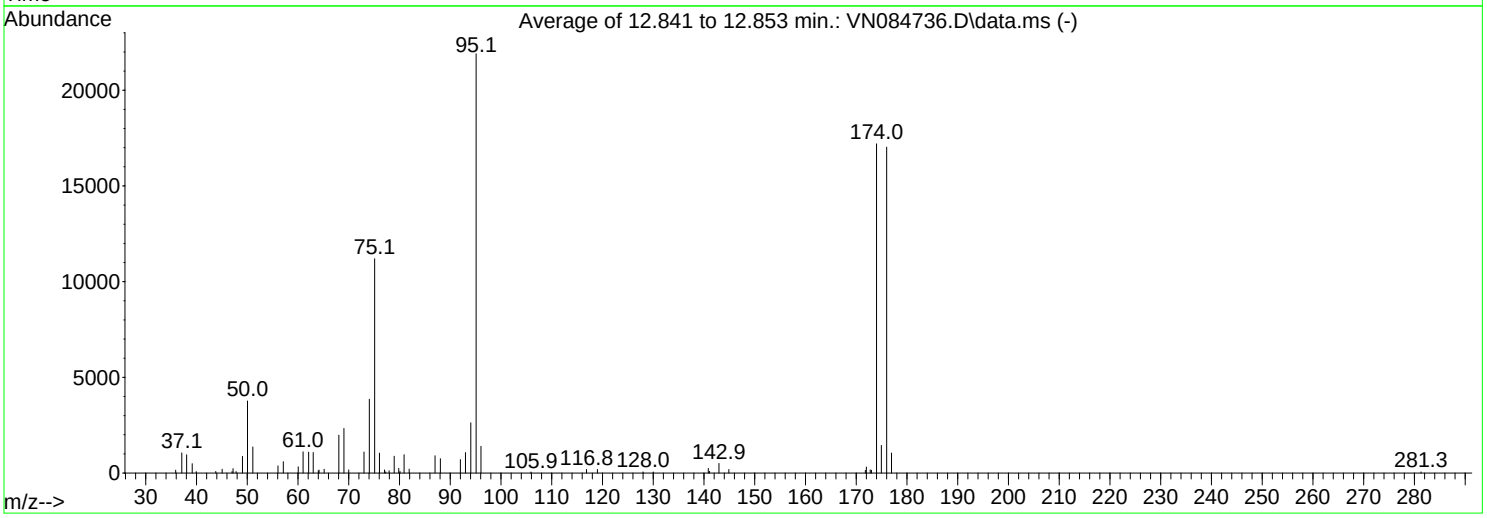
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084736.D
Acq On : 08 Nov 2024 08:18
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Title : SW846 8260
Last Update : Thu Oct 31 18:45:38 2024





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	3766	PASS
75	95	30	60	51.1	11200	PASS
95	95	100	100	100.0	21907	PASS
96	95	5	9	6.4	1400	PASS
173	174	0.00	2	1.0	167	PASS
174	95	50	100	78.5	17202	PASS
175	174	5	9	8.4	1446	PASS
176	174	95	101	99.0	17029	PASS
177	176	5	9	6.2	1049	PASS

Average of 12.841 to 12.853 min.: VN084736.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	152	50.05	3766	68.05	1978	79.85	245
37.10	1056	51.10	1363	69.05	2331	80.10	89
38.05	955	56.05	374	70.00	167	80.90	960
39.15	491	57.10	594	73.00	1101	81.90	207
39.95	77	60.05	328	74.05	3860	87.00	906
43.80	85	61.00	1111	75.10	11200	88.05	752
45.05	203	62.10	1093	76.05	1043	92.00	705
47.00	80	63.00	1076	77.05	166	93.00	1070
47.20	234	64.00	129	77.30	62	94.05	2629
47.80	83	64.15	159	77.95	125	95.10	21907
49.05	872	65.15	200	78.95	880	96.05	1400

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN084736.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.90	54	172.75	167				
116.85	190	173.00	149				
119.00	190	174.00	17202				
128.00	64	174.95	1446				
130.00	60	176.00	17029				
140.85	244	176.95	1049				
141.10	90	281.30	62				
142.95	505						
144.90	188						
171.80	144						
172.00	318						

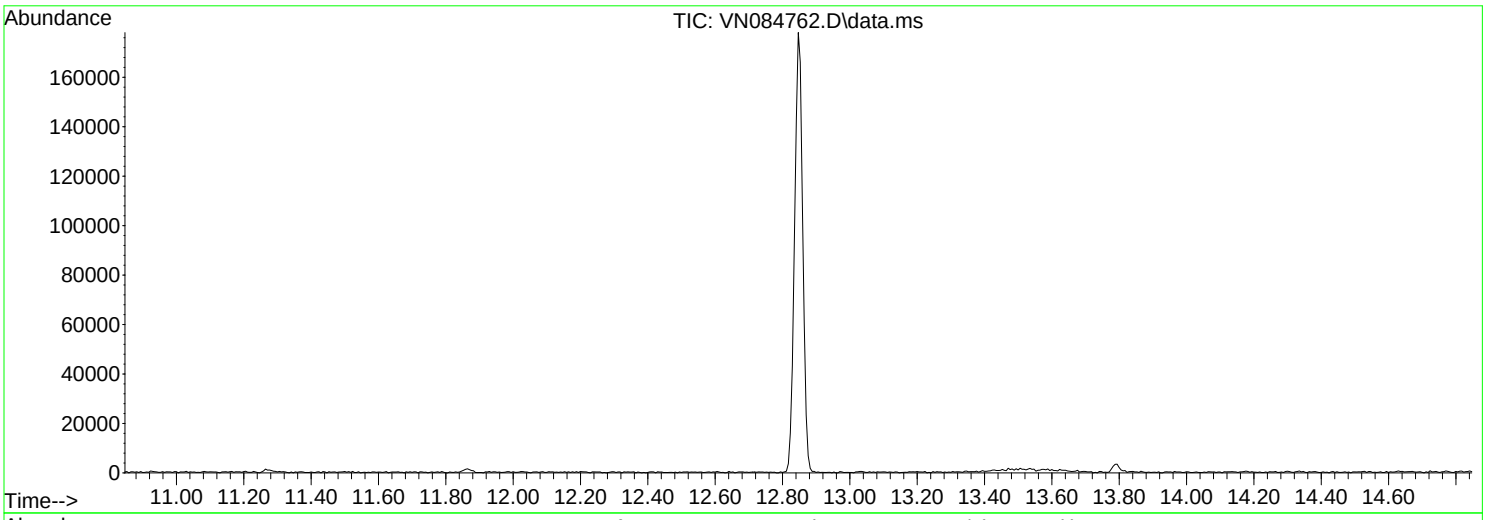
Sample Results: **VN084762.D**

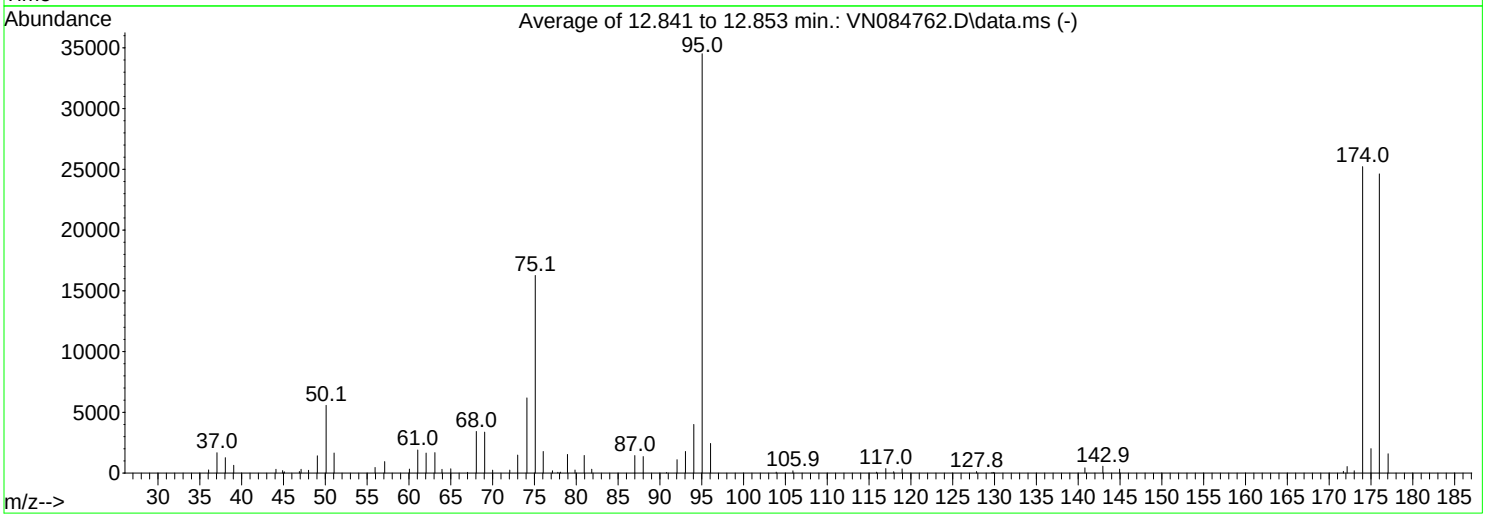
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084762.D
Acq On : 11 Nov 2024 10:21
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Title : SW846 8260
Last Update : Thu Oct 31 18:45:38 2024





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	5574	PASS
75	95	30	60	47.1	16266	PASS
95	95	100	100	100.0	34517	PASS
96	95	5	9	7.1	2436	PASS
173	174	0.00	2	0.8	191	PASS
174	95	50	100	73.1	25224	PASS
175	174	5	9	8.0	2010	PASS
176	174	95	101	97.6	24629	PASS
177	176	5	9	6.5	1591	PASS

Average of 12.841 to 12.853 min.: VN084762.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	262	50.10	5574	68.05	3426	78.95	1533
37.05	1676	51.05	1650	69.05	3373	79.85	253
38.05	1270	55.95	465	70.00	243	80.95	1455
39.05	643	57.10	946	72.05	244	81.85	318
44.10	312	60.05	328	73.00	1483	87.00	1445
44.90	200	61.05	1903	74.10	6188	88.00	1360
45.10	102	62.05	1647	75.10	16266	90.80	52
46.90	129	63.10	1682	76.05	1778	92.05	1105
47.10	313	63.95	309	77.15	189	93.05	1781
48.00	231	65.00	350	77.80	69	94.05	4004
49.05	1425	67.00	61	78.10	79	95.05	34517

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN084762.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.05	2436	142.95	566				
103.90	79	144.95	325				
105.90	184	171.70	144				
115.90	77	172.15	536				
117.00	372	173.00	191				
117.95	114	174.00	25224				
118.95	342	175.00	2010				
127.85	127	176.00	24629				
129.70	59	177.05	1591				
129.90	59						
140.80	431						

Raw Data: **VN084739.D**

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	VN1108WBL01	SDG No.:	P4722
Lab Sample ID:	VN1108WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084739.D	1		11/08/24 10:44	VN110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	45.6		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		77 - 121	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	170000	8.218			
540-36-3	1,4-Difluorobenzene	297000	9.1			
3114-55-4	Chlorobenzene-d5	256000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	114000	13.788			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084739.D
Acq On : 08 Nov 2024 10:44
Operator : JC\MD
Sample : VN1108WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBL01

Quant Time: Nov 08 22:26:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	170398	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	297081	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	255691	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	113797	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	119910	48.722	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.440%		
35) Dibromofluoromethane	8.159	113	98292	48.880	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.760%		
50) Toluene-d8	10.565	98	337837	45.608	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.220%		
62) 4-Bromofluorobenzene	12.847	95	127156	45.931	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	91.860%		

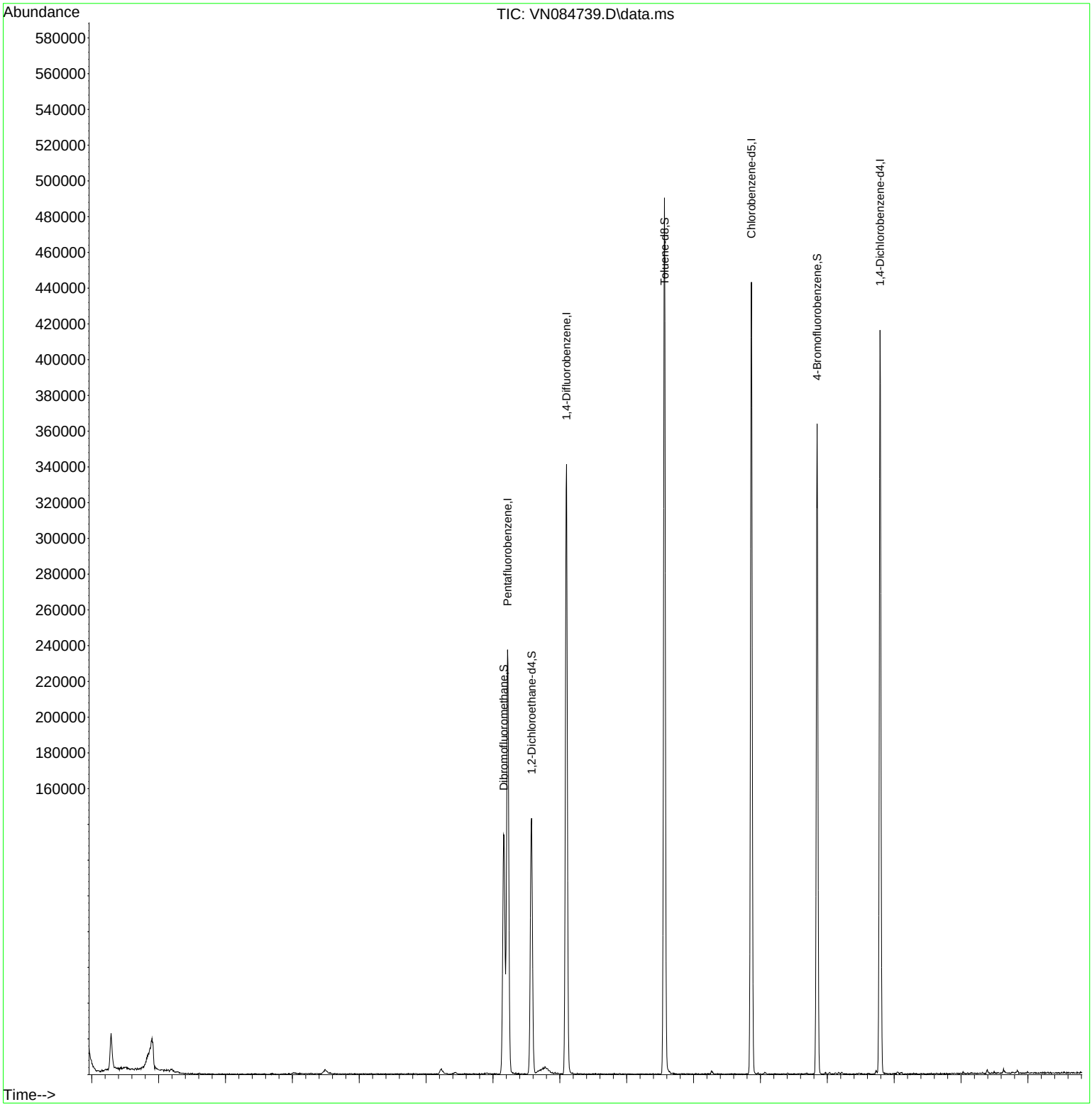
Target Compounds Qvalue

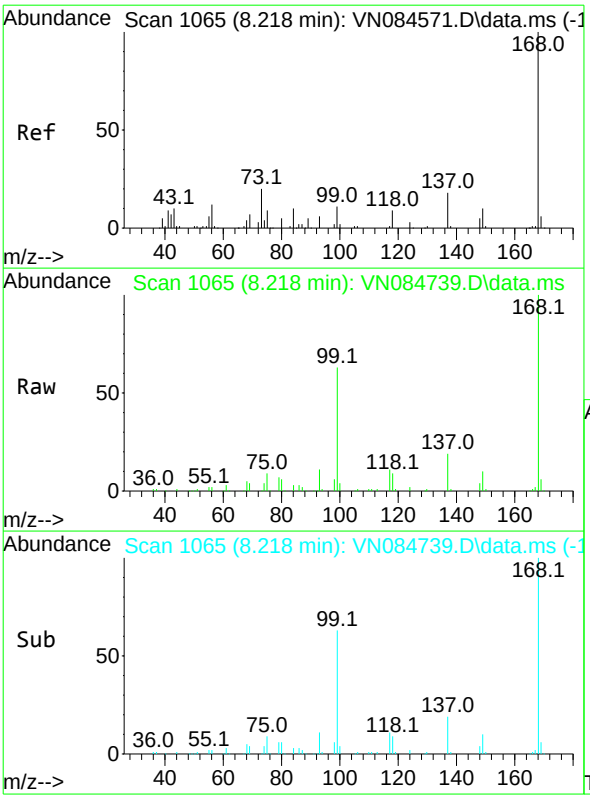
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084739.D
Acq On : 08 Nov 2024 10:44
Operator : JC\MD
Sample : VN1108WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBL01

Quant Time: Nov 08 22:26:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



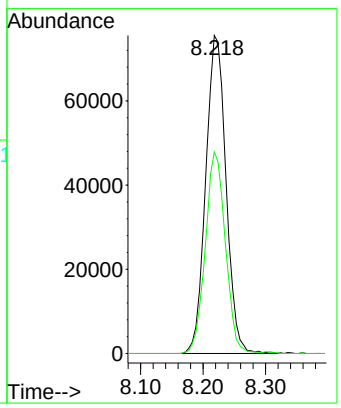


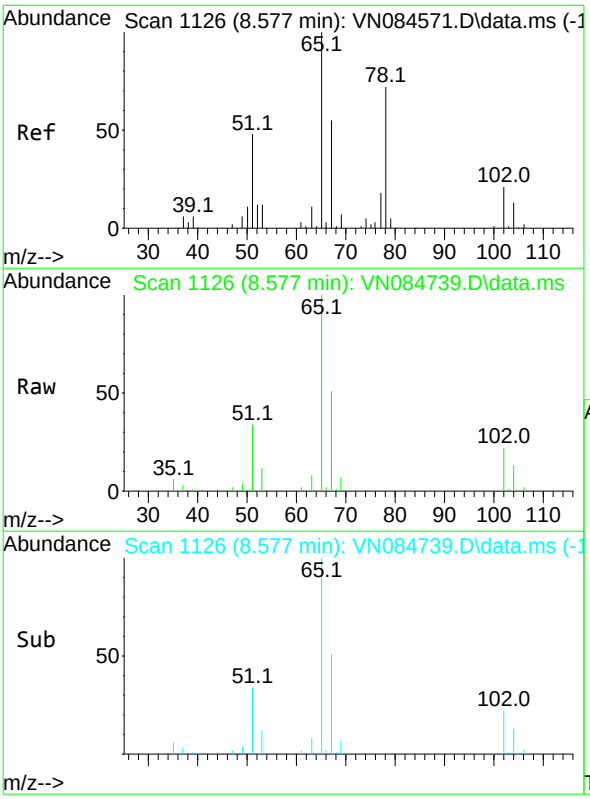
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084739.D
Acq: 08 Nov 2024 10:44

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBL01

Tgt Ion:168 Resp: 170398

Ion	Ratio	Lower	Upper
168	100		
99	63.3	54.2	81.2

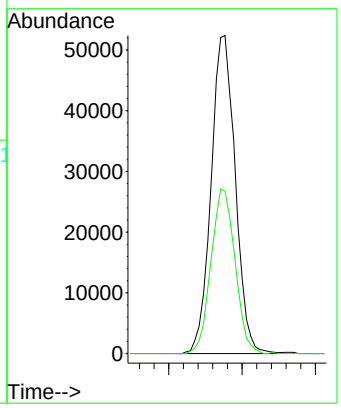


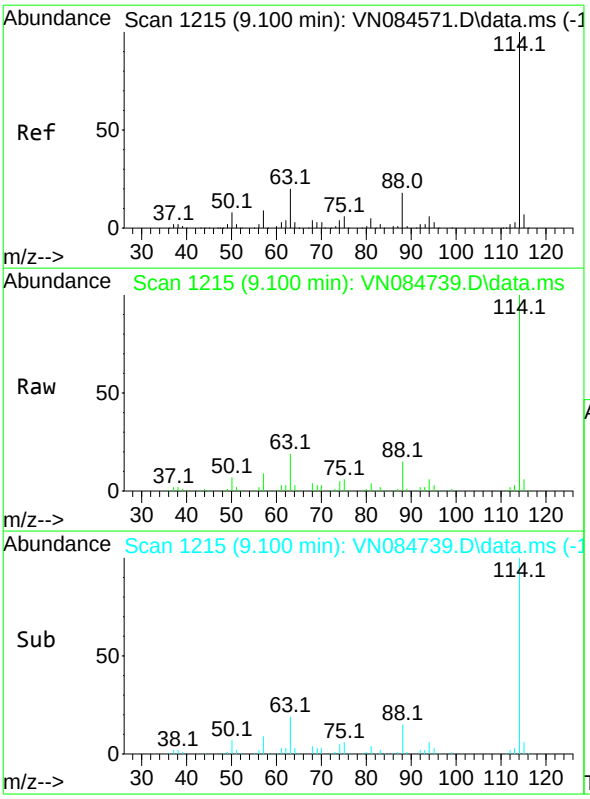


#33
1,2-Dichloroethane-d4
Concen: 48.722 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084739.D
Acq: 08 Nov 2024 10:44

Tgt Ion: 65 Resp: 119910

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	102.0



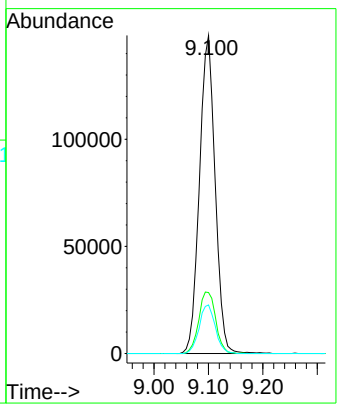


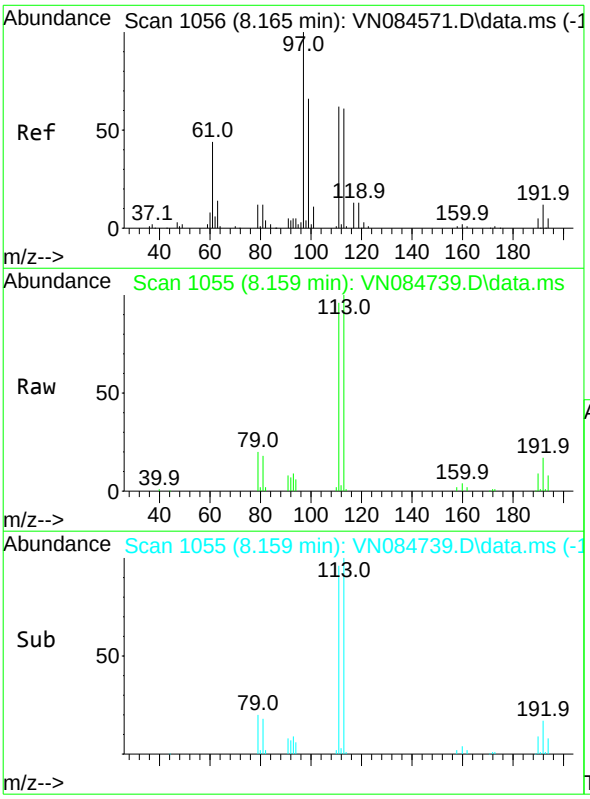
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN084739.D
Acq: 08 Nov 2024 10:44

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBL01

Tgt Ion:114 Resp: 297081

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	43.8
88	15.3	0.0	31.6

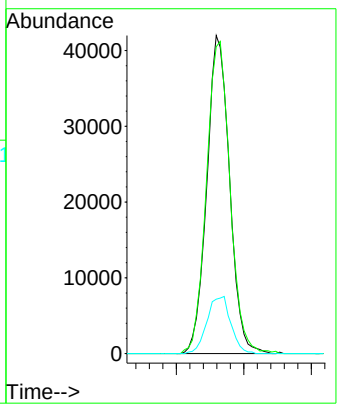


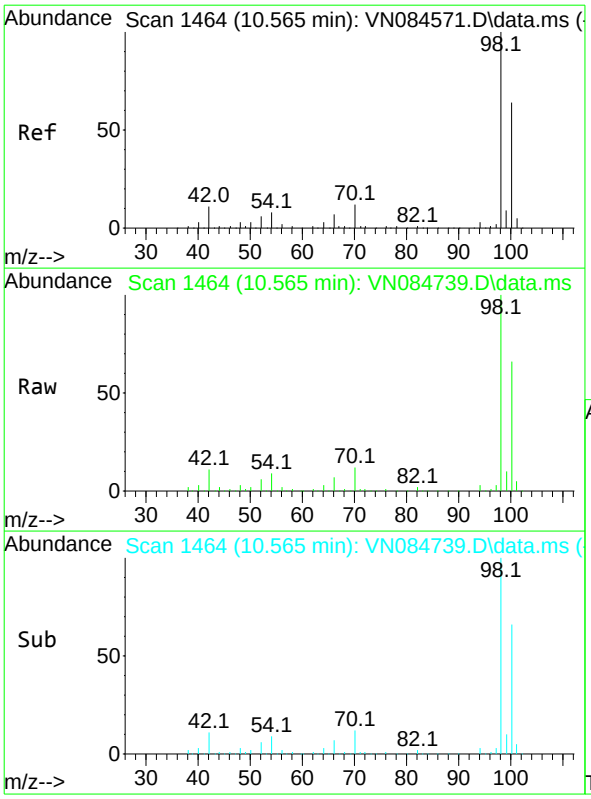


#35
Dibromofluoromethane
Concen: 48.880 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084739.D
Acq: 08 Nov 2024 10:44

Tgt Ion:113 Resp: 98292

Ion	Ratio	Lower	Upper
113	100		
111	101.9	83.3	124.9
192	18.7	13.5	20.3



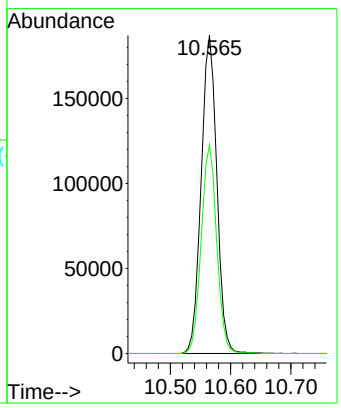


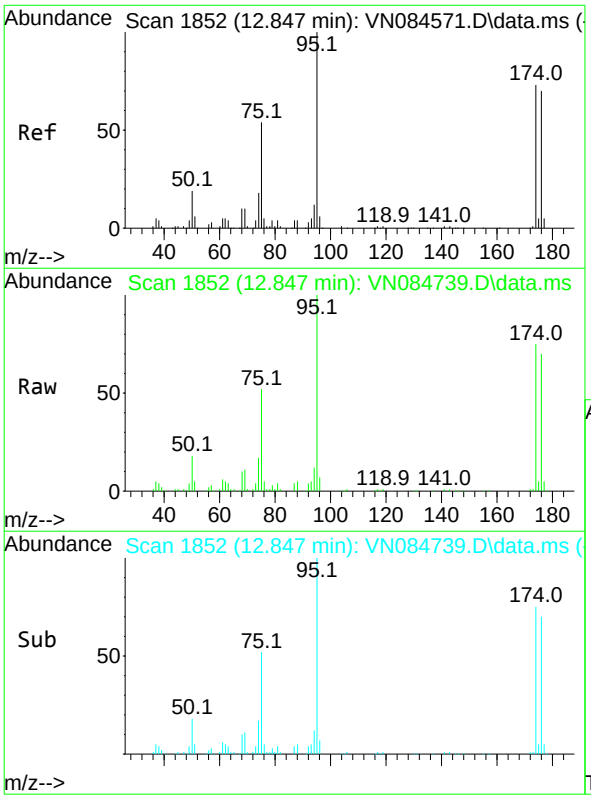
#50
Toluene-d8
Concen: 45.608 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084739.D
Acq: 08 Nov 2024 10:44

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBL01

Tgt Ion: 98 Resp: 337837

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.7	79.1

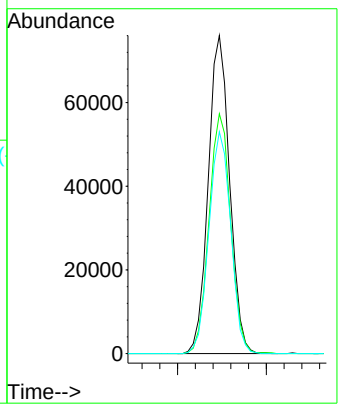


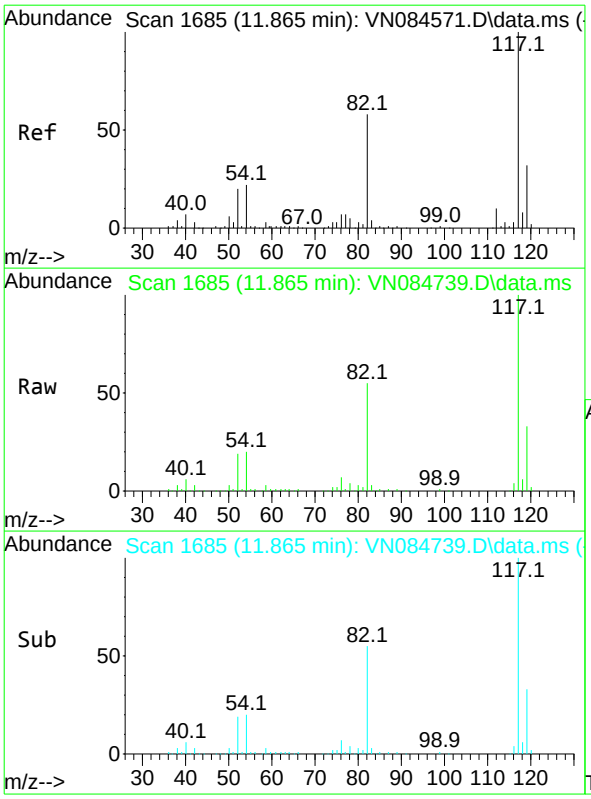


#62
4-Bromofluorobenzene
Concen: 45.931 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084739.D
Acq: 08 Nov 2024 10:44

Tgt Ion: 95 Resp: 127156

Ion	Ratio	Lower	Upper
95	100		
174	76.6	0.0	145.2
176	70.9	0.0	140.0



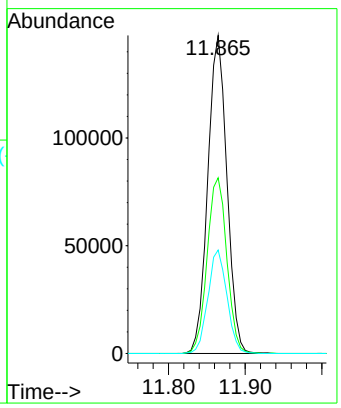


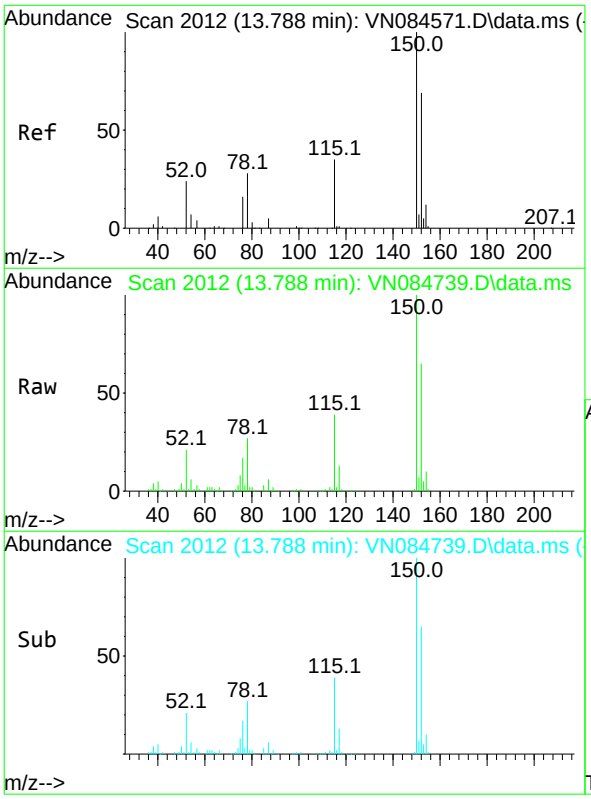
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084739.D
Acq: 08 Nov 2024 10:44

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBL01

Tgt Ion:117 Resp: 255691

Ion	Ratio	Lower	Upper
117	100		
82	55.2	47.2	70.8
119	32.5	25.4	38.0

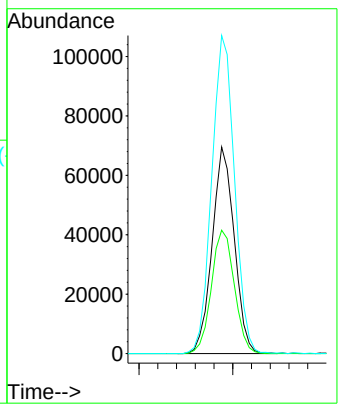




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084739.D
Acq: 08 Nov 2024 10:44

Tgt Ion:152 Resp: 113797

Ion	Ratio	Lower	Upper
152	100		
115	61.9	31.3	93.9
150	158.3	0.0	349.8



Raw Data: **VN084765.D**

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	VN1111WBL01	SDG No.:	P4722
Lab Sample ID:	VN1111WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084765.D	1		11/11/24 12:30	VN111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.0		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	45.9		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		77 - 121	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	8.224			
540-36-3	1,4-Difluorobenzene	283000	9.1			
3114-55-4	Chlorobenzene-d5	254000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.788			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084765.D
Acq On : 11 Nov 2024 12:30
Operator : JC\MD
Sample : VN1111WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBL01

Quant Time: Nov 11 12:48:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	167136	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	283115	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	253987	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	115446	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	115755	47.951	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.900%		
35) Dibromofluoromethane	8.165	113	94094	49.101	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.200%		
50) Toluene-d8	10.565	98	324137	45.917	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.840%		
62) 4-Bromofluorobenzene	12.847	95	126929	48.111	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.220%		

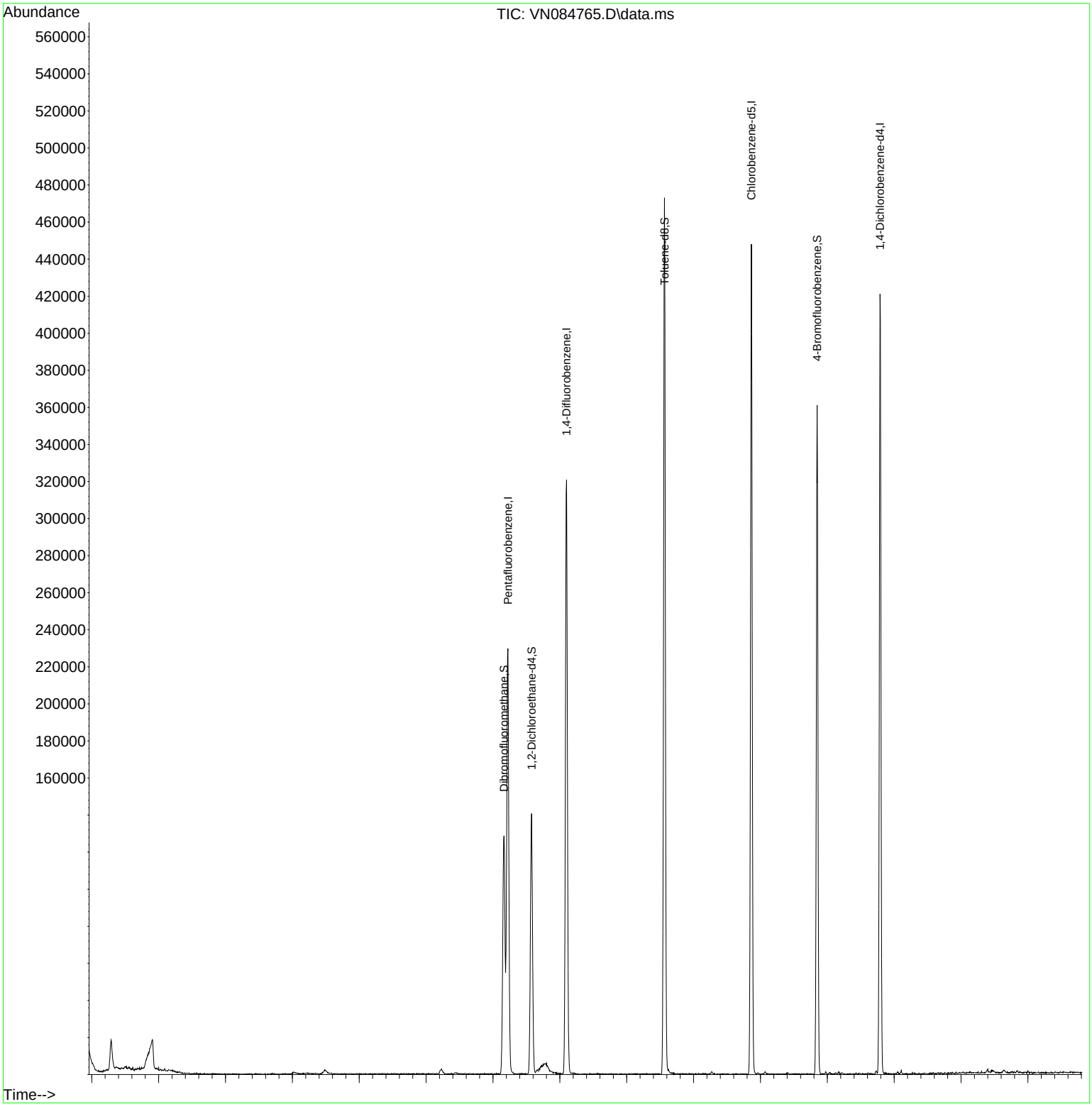
Target Compounds Qvalue

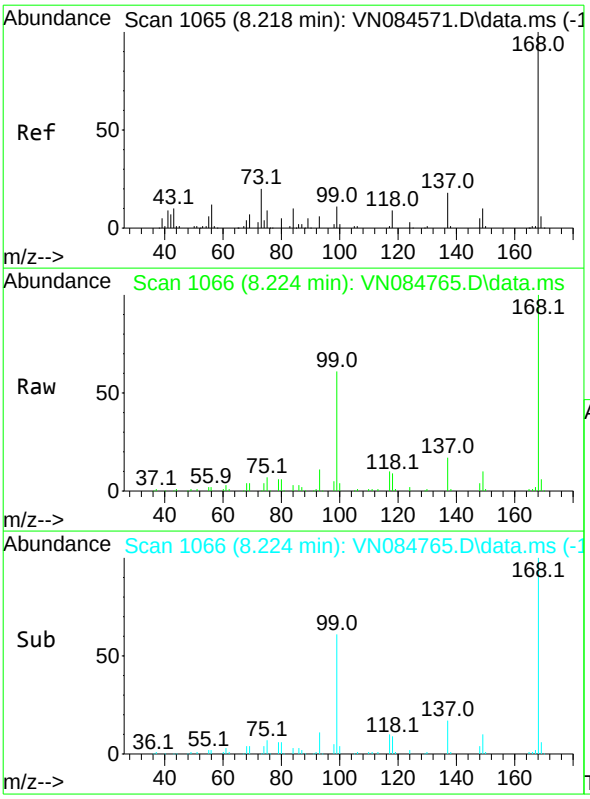
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084765.D
Acq On : 11 Nov 2024 12:30
Operator : JC\MD
Sample : VN1111WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBL01

Quant Time: Nov 11 12:48:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



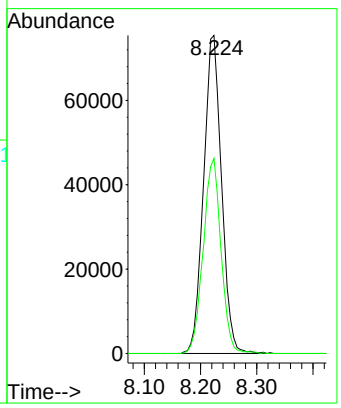


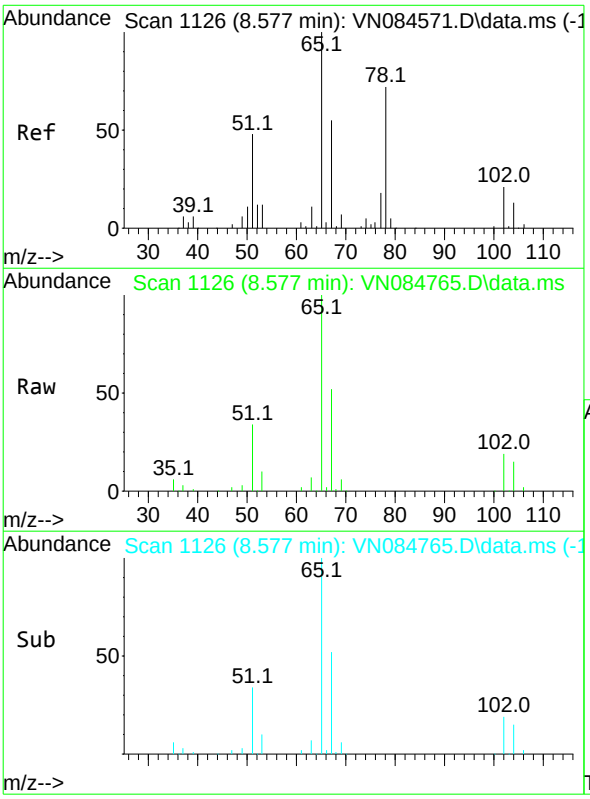
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084765.D
Acq: 11 Nov 2024 12:30

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBL01

Tgt Ion:168 Resp: 167136

Ion	Ratio	Lower	Upper
168	100		
99	61.3	54.2	81.2

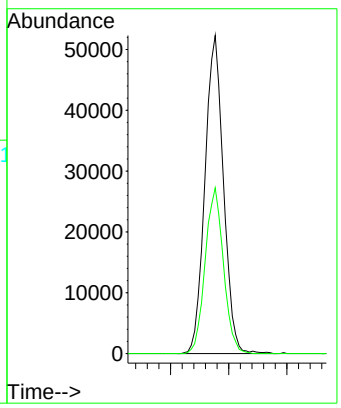


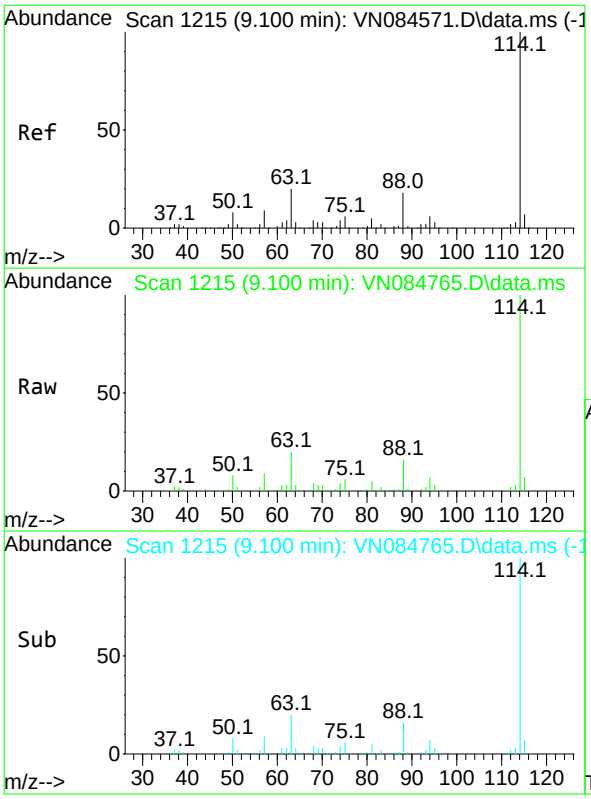


#33
1,2-Dichloroethane-d4
Concen: 47.951 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084765.D
Acq: 11 Nov 2024 12:30

Tgt Ion: 65 Resp: 115755

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	102.0



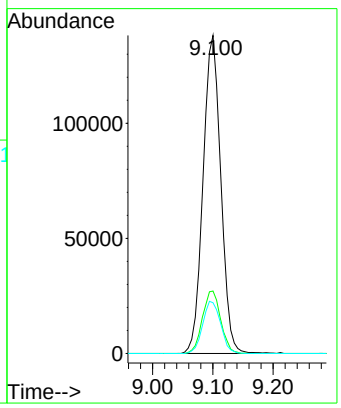


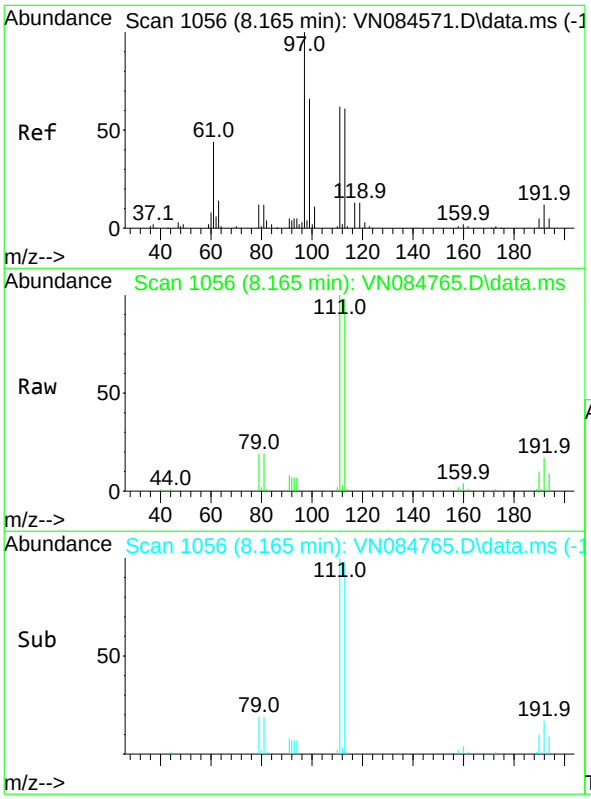
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN084765.D
Acq: 11 Nov 2024 12:30

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBL01

Tgt Ion:114 Resp: 283115

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	43.8
88	16.0	0.0	31.6

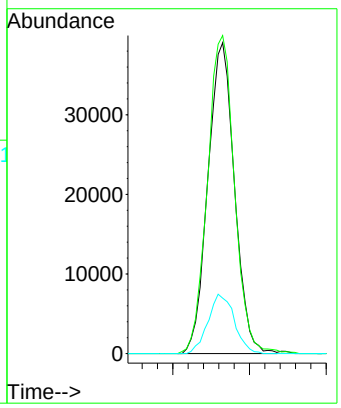


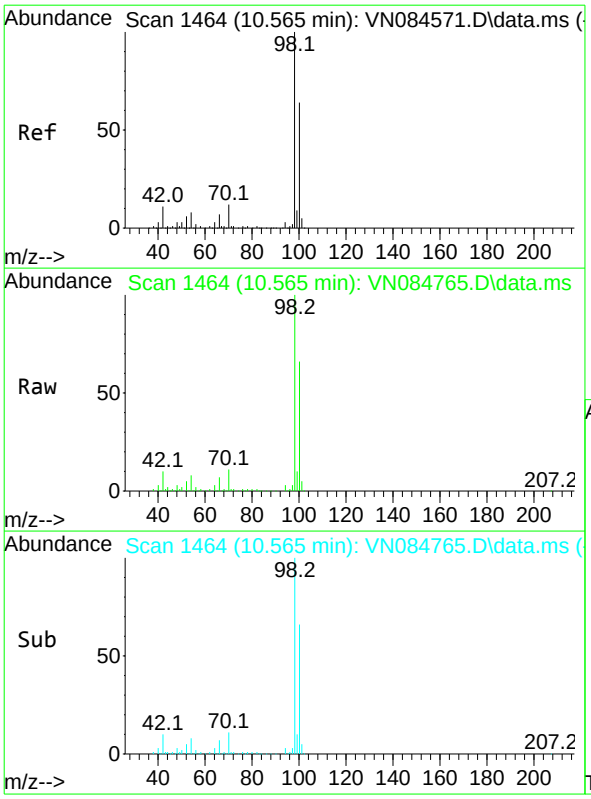


#35
Dibromofluoromethane
Concen: 49.101 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084765.D
Acq: 11 Nov 2024 12:30

Tgt Ion:113 Resp: 94094

Ion	Ratio	Lower	Upper
113	100		
111	103.8	83.3	124.9
192	18.9	13.5	20.3



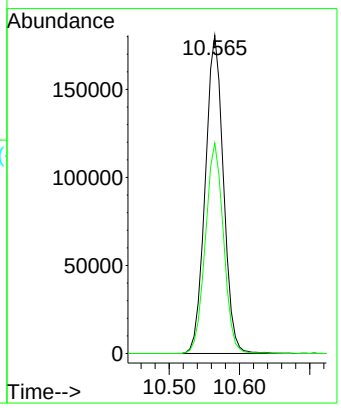


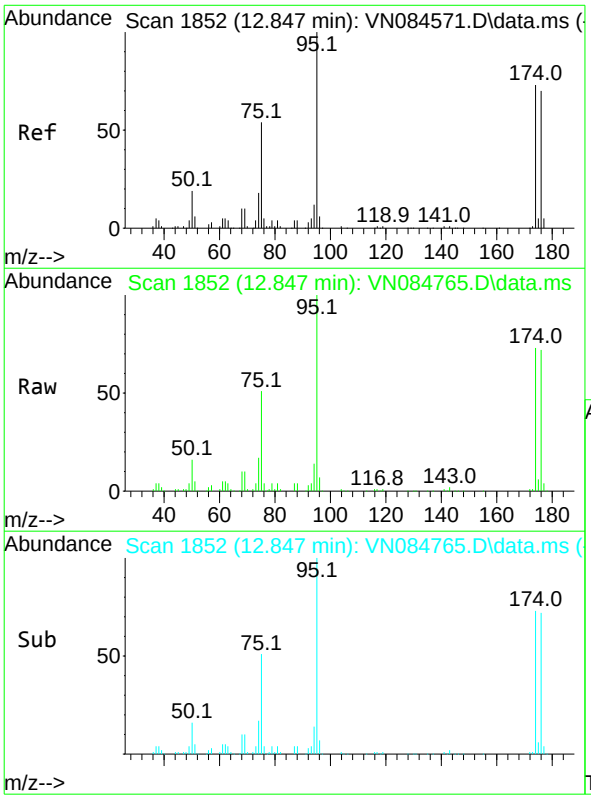
#50
Toluene-d8
Concen: 45.917 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084765.D
Acq: 11 Nov 2024 12:30

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBL01

Tgt Ion: 98 Resp: 324137

Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.7	79.1

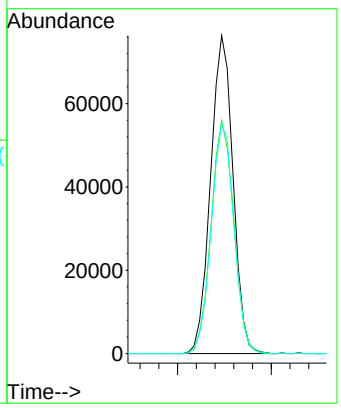


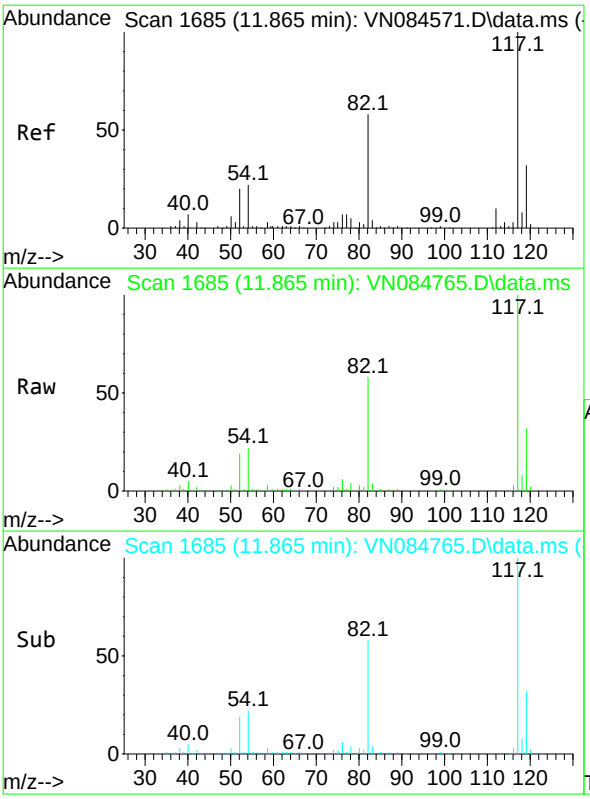


#62
4-Bromofluorobenzene
Concen: 48.111 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084765.D
Acq: 11 Nov 2024 12:30

Tgt Ion: 95 Resp: 126929

Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	145.2
176	73.2	0.0	140.0



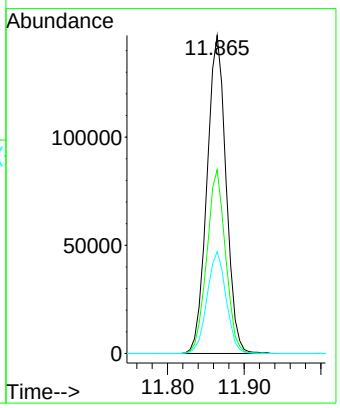


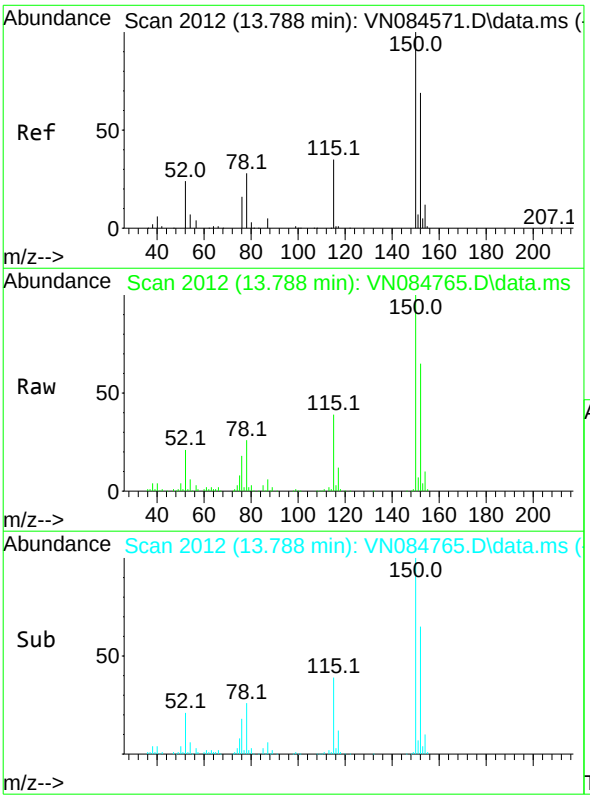
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084765.D
Acq: 11 Nov 2024 12:30

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBL01

Tgt Ion:117 Resp: 253987

Ion	Ratio	Lower	Upper
117	100		
82	57.8	47.2	70.8
119	32.0	25.4	38.0

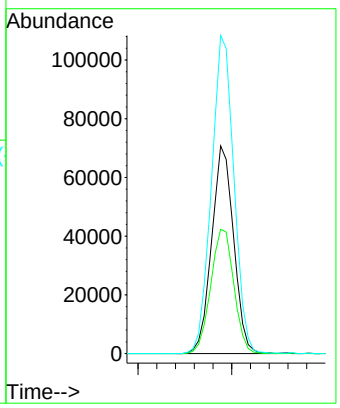




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084765.D
Acq: 11 Nov 2024 12:30

Tgt Ion:152 Resp: 115446

Ion	Ratio	Lower	Upper
152	100		
115	62.8	31.3	93.9
150	156.5	0.0	349.8



Raw Data: **VN084740.D**

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	VN1108WBS01	SDG No.:	P4722
Lab Sample ID:	VN1108WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084740.D	1		11/08/24 11:19	VN110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.2		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	16.7		0.26	1.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.0		0.25	1.00	ug/L
67-66-3	Chloroform	18.8		0.26	1.00	ug/L
71-43-2	Benzene	17.7		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.1		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.3		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	18.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	17.6		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.2		74 - 125	92%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	47.1		86 - 113	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	175000	8.218			
540-36-3	1,4-Difluorobenzene	291000	9.1			
3114-55-4	Chlorobenzene-d5	263000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	136000	13.788			

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

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

Sample Results: **VN084740.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084740.D
Acq On : 08 Nov 2024 11:19
Operator : JC\MD
Sample : VN1108WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 11/09/2024
Supervised By :Mahesh Dadoda 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	174962	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	291201	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	262615	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	135553	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116684	46.174	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.340%			
35) Dibromofluoromethane	8.165	113	93853	47.615	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.240%			
50) Toluene-d8	10.565	98	341782	47.072	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.140%			
62) 4-Bromofluorobenzene	12.847	95	137305	50.599	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	34767	17.286	ug/l	93
3) Chloromethane	2.359	50	37956	14.282	ug/l	93
4) Vinyl Chloride	2.512	62	34968	16.164	ug/l	97
5) Bromomethane	2.901	94	19469	16.986	ug/l	95
6) Chloroethane	3.065	64	23715	16.783	ug/l	93
7) Trichlorofluoromethane	3.465	101	63402	17.792	ug/l	99
8) Diethyl Ether	3.948	74	22022	17.518	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	36193	17.974	ug/l	96
10) Methyl Iodide	4.577	142	47599	17.687	ug/l	95
11) Tert butyl alcohol	5.530	59	36995	110.909	ug/l	96
12) 1,1-Dichloroethene	4.318	96	33369	16.748	ug/l	98
13) Acrolein	4.177	56	25953	78.026	ug/l	99
14) Allyl chloride	5.012	41	55430	17.154	ug/l	93
15) Acrylonitrile	5.712	53	99106	102.632	ug/l	98
16) Acetone	4.430	43	82332	111.205	ug/l	96
17) Carbon Disulfide	4.695	76	92605	15.092	ug/l	100
18) Methyl Acetate	5.024	43	49919	16.007	ug/l	95
19) Methyl tert-butyl Ether	5.795	73	115190	18.862	ug/l	100
20) Methylene Chloride	5.259	84	39511	17.777	ug/l #	83
21) trans-1,2-Dichloroethene	5.777	96	34277	16.754	ug/l	98
22) Diisopropyl ether	6.665	45	118560	18.466	ug/l	96
23) Vinyl Acetate	6.600	43	425627	96.129	ug/l	98
24) 1,1-Dichloroethane	6.559	63	68939	17.884	ug/l	97
25) 2-Butanone	7.483	43	123723	104.944	ug/l	97
26) 2,2-Dichloropropane	7.489	77	62524	18.636	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	43621	18.260	ug/l	95
28) Bromochloromethane	7.812	49	30783	20.044	ug/l	91
29) Tetrahydrofuran	7.836	42	80577	103.022	ug/l	94
30) Chloroform	7.965	83	73867	18.827	ug/l	99
31) Cyclohexane	8.253	56	57060	16.355	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	66952	18.749	ug/l	96
36) 1,1-Dichloropropene	8.365	75	47988	17.555	ug/l	99
37) Ethyl Acetate	7.553	43	51613	20.810	ug/l	97
38) Carbon Tetrachloride	8.359	117	57972	18.973	ug/l	97
39) Methylcyclohexane	9.594	83	51512	18.523	ug/l	98
40) Benzene	8.600	78	155201	17.679	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084740.D
Acq On : 08 Nov 2024 11:19
Operator : JC\MD
Sample : VN1108WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/09/2024
Supervised By :Mahesh Dadoda 11/11/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	27233	20.418 ug/l		94
42) 1,2-Dichloroethane	8.665	62	54291	19.095 ug/l		99
43) Isopropyl Acetate	8.688	43	86390	18.241 ug/l		99
44) Trichloroethene	9.353	130	37093	18.321 ug/l		96
45) 1,2-Dichloropropane	9.618	63	38326	18.610 ug/l		97
46) Dibromomethane	9.706	93	27144	18.679 ug/l		94
47) Bromodichloromethane	9.888	83	56189	18.343 ug/l	#	96
48) Methyl methacrylate	9.677	41	37137	19.239 ug/l		92
49) 1,4-Dioxane	9.694	88	14506	424.079 ug/l	#	80
51) 4-Methyl-2-Pentanone	10.441	43	255755	108.170 ug/l		98
52) Toluene	10.629	92	96819	18.857 ug/l		98
53) t-1,3-Dichloropropene	10.835	75	57707	18.200 ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	61498	18.325 ug/l		96
55) 1,1,2-Trichloroethane	11.012	97	37879	19.585 ug/l		98
56) Ethyl methacrylate	10.871	69	58163	20.791 ug/l		96
57) 1,3-Dichloropropane	11.165	76	64044	19.294 ug/l		97
58) 2-Chloroethyl Vinyl ether	10.159	63	141306	107.944 ug/l		98
59) 2-Hexanone	11.194	43	188419	109.482 ug/l		96
60) Dibromochloromethane	11.359	129	44133	20.022 ug/l		100
61) 1,2-Dibromoethane	11.465	107	38295	19.336 ug/l		98
64) Tetrachloroethene	11.100	164	31948	18.289 ug/l		94
65) Chlorobenzene	11.888	112	103377	17.596 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	38498	18.839 ug/l		100
67) Ethyl Benzene	11.965	91	178544	18.206 ug/l		100
68) m/p-Xylenes	12.071	106	137179	36.948 ug/l		99
69) o-Xylene	12.394	106	65367	18.820 ug/l		99
70) Styrene	12.412	104	112670	18.596 ug/l		98
71) Bromoform	12.576	173	30386	19.760 ug/l	#	95
73) Isopropylbenzene	12.694	105	164923	17.362 ug/l		99
74) N-amyl acetate	12.494	43	71767	17.751 ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.935	83	57392	18.101 ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	53019m	19.567 ug/l		
77) Bromobenzene	12.982	156	43577	17.064 ug/l		93
78) n-propylbenzene	13.035	91	191605	17.213 ug/l		98
79) 2-Chlorotoluene	13.123	91	126696	17.419 ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	144609	18.367 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	19561	17.126 ug/l		97
82) 4-Chlorotoluene	13.218	91	124322	16.242 ug/l		98
83) tert-Butylbenzene	13.435	119	122675	18.827 ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	145733	17.935 ug/l		99
85) sec-Butylbenzene	13.612	105	163337	17.746 ug/l		99
86) p-Isopropyltoluene	13.729	119	135693	17.976 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	79514	15.955 ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	78967	16.542 ug/l		99
89) n-Butylbenzene	14.053	91	112075	15.872 ug/l		97
90) Hexachloroethane	14.329	117	28476	16.916 ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	80587	16.827 ug/l		96
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12300	19.149 ug/l		95
93) 1,2,4-Trichlorobenzene	15.394	180	39577	15.099 ug/l		98
94) Hexachlorobutadiene	15.500	225	18430	16.011 ug/l		98
95) Naphthalene	15.641	128	126375	16.107 ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	39105	15.368 ug/l		98

Sample Results: **VN084740.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084740.D
Acq On : 08 Nov 2024 11:19
Operator : JC\MD
Sample : VN1108WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/09/2024
Supervised By :Mahesh Dadoda 11/11/2024

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

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

Sample Results: **VN084740.D**

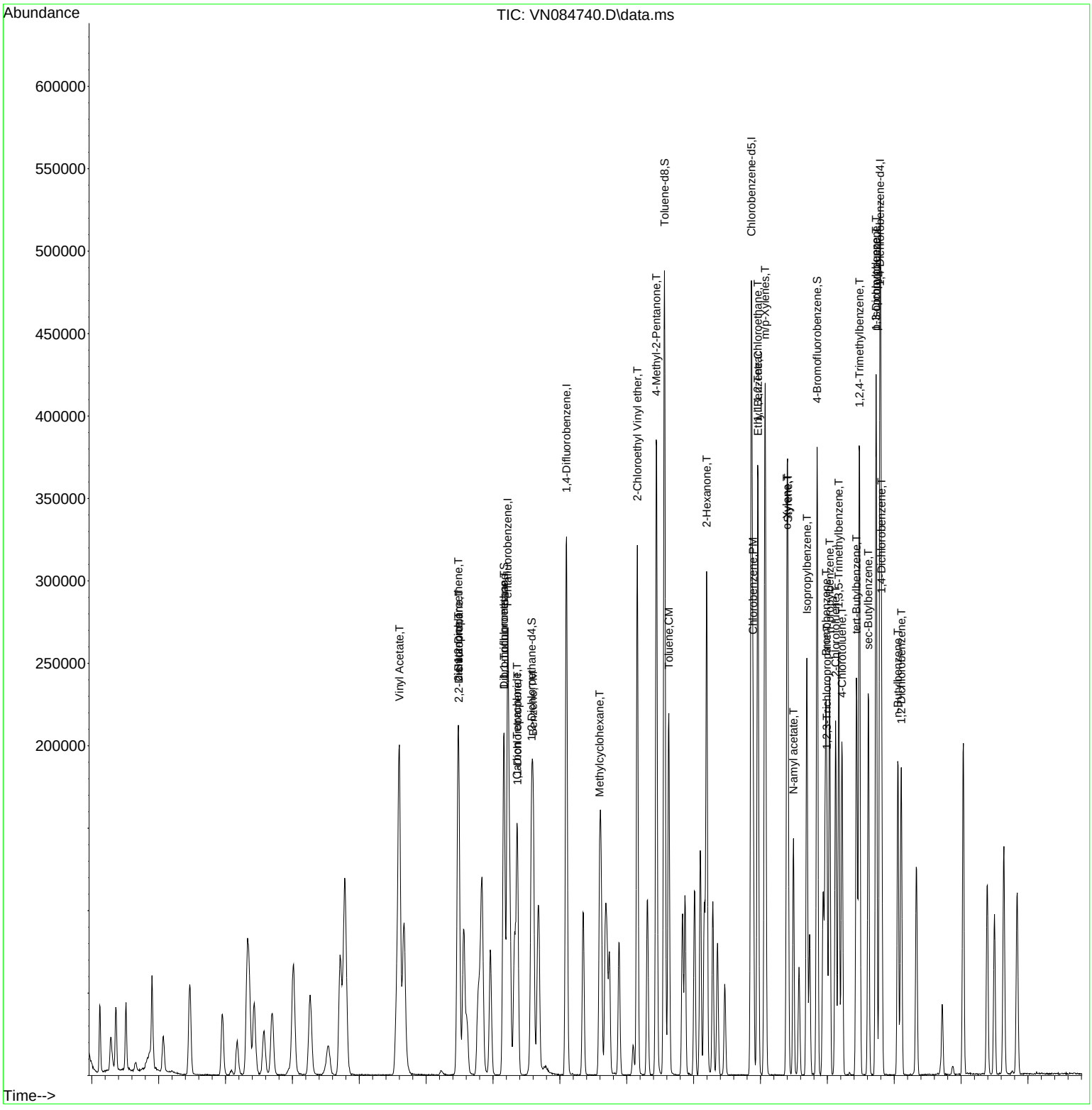
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084740.D
Acq On : 08 Nov 2024 11:19
Operator : JC\MD
Sample : VN1108WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:26:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/09/2024
Supervised By :Mahesh Dadoda 11/11/2024



Raw Data: **VN084766.D**

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	VN1111WBS01	SDG No.:	P4722
Lab Sample ID:	VN1111WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084766.D	1		11/11/24 12:54	VN111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	15.4		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	16.1		0.26	1.00	ug/L
78-93-3	2-Butanone	86.1		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.0		0.25	1.00	ug/L
67-66-3	Chloroform	17.7		0.26	1.00	ug/L
71-43-2	Benzene	17.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.6		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	18.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	17.8		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.8		74 - 125	84%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		75 - 124	92%	SPK: 50
2037-26-5	Toluene-d8	44.8		86 - 113	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.7		77 - 121	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	168000	8.224			
540-36-3	1,4-Difluorobenzene	269000	9.1			
3114-55-4	Chlorobenzene-d5	238000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	123000	13.794			

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

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

Sample Results: **VN084766.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084766.D
Acq On : 11 Nov 2024 12:54
Operator : JC\MD
Sample : VN1111WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 12 04:51:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/12/2024
Supervised By :Mahesh Dadoda 11/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	167933	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	269161	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	238228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	123082	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	101440	41.822	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 83.640%			
35) Dibromofluoromethane	8.165	113	83832	46.014	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.020%			
50) Toluene-d8	10.565	98	300387	44.759	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 89.520%			
62) 4-Bromofluorobenzene	12.847	95	117186	46.721	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	31118	16.119	ug/l	91
3) Chloromethane	2.359	50	32895	12.638	ug/l	99
4) Vinyl Chloride	2.512	62	31989	15.406	ug/l	97
5) Bromomethane	2.901	94	18435	16.757	ug/l	98
6) Chloroethane	3.071	64	21835	16.041	ug/l	96
7) Trichlorofluoromethane	3.471	101	57579	16.834	ug/l	96
8) Diethyl Ether	3.953	74	20121	16.676	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.353	101	33184	17.170	ug/l	97
10) Methyl Iodide	4.577	142	44513	17.233	ug/l #	83
11) Tert butyl alcohol	5.536	59	27067	84.542	ug/l #	89
12) 1,1-Dichloroethene	4.324	96	30844	16.128	ug/l	91
13) Acrolein	4.177	56	23863	74.746	ug/l	93
14) Allyl chloride	5.018	41	50354	16.236	ug/l	91
15) Acrylonitrile	5.718	53	76491	82.528	ug/l	99
16) Acetone	4.430	43	64503	90.240	ug/l	93
17) Carbon Disulfide	4.700	76	80517	13.672	ug/l	96
18) Methyl Acetate	5.024	43	40630	12.914	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	100798	17.196	ug/l	95
20) Methylene Chloride	5.265	84	36612	17.162	ug/l	90
21) trans-1,2-Dichloroethene	5.783	96	31234	15.906	ug/l	93
22) Diisopropyl ether	6.671	45	105182	17.068	ug/l	97
23) Vinyl Acetate	6.600	43	358872	84.444	ug/l	97
24) 1,1-Dichloroethane	6.559	63	62411	16.868	ug/l	98
25) 2-Butanone	7.483	43	97431	86.101	ug/l	99
26) 2,2-Dichloropropane	7.488	77	56410	17.517	ug/l	98
27) cis-1,2-Dichloroethene	7.477	96	39395	17.181	ug/l	94
28) Bromochloromethane	7.806	49	32939	22.346	ug/l	89
29) Tetrahydrofuran	7.835	42	61385	81.769	ug/l	94
30) Chloroform	7.965	83	66840	17.749	ug/l	98
31) Cyclohexane	8.253	56	50151	14.976	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	60929	17.776	ug/l	96
36) 1,1-Dichloropropene	8.365	75	43961	17.398	ug/l	98
37) Ethyl Acetate	7.559	43	39564	17.258	ug/l	98
38) Carbon Tetrachloride	8.359	117	53552	18.962	ug/l	94
39) Methylcyclohexane	9.600	83	44034	17.130	ug/l	93
40) Benzene	8.600	78	141800	17.475	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084766.D
Acq On : 11 Nov 2024 12:54
Operator : JC\MD
Sample : VN1111WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 12 04:51:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/12/2024
Supervised By :Mahesh Dadoda 11/12/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	23067	18.711 ug/l	98
42) 1,2-Dichloroethane	8.665	62	48176	18.332 ug/l	99
43) Isopropyl Acetate	8.688	43	72107	16.376 ug/l	97
44) Trichloroethene	9.353	130	32999	17.633 ug/l	99
45) 1,2-Dichloropropane	9.618	63	34052	17.889 ug/l	91
46) Dibromomethane	9.706	93	24530	18.263 ug/l	97
47) Bromodichloromethane	9.882	83	52398	18.506 ug/l	93
48) Methyl methacrylate	9.682	41	31523	17.668 ug/l	97
49) 1,4-Dioxane	9.694	88	12374	391.373 ug/l #	91
51) 4-Methyl-2-Pentanone	10.441	43	203514	93.123 ug/l	98
52) Toluene	10.629	92	87522	18.442 ug/l	99
53) t-1,3-Dichloropropene	10.835	75	49448	16.872 ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	55849	18.005 ug/l	96
55) 1,1,2-Trichloroethane	11.018	97	33617	18.805 ug/l	97
56) Ethyl methacrylate	10.871	69	49258	19.049 ug/l	96
57) 1,3-Dichloropropane	11.165	76	56752	18.498 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	115516	95.469 ug/l	95
59) 2-Hexanone	11.194	43	150560	94.647 ug/l	98
60) Dibromochloromethane	11.359	129	39477	19.376 ug/l	96
61) 1,2-Dibromoethane	11.465	107	32346	17.669 ug/l	100
64) Tetrachloroethene	11.100	164	29143	18.391 ug/l	96
65) Chlorobenzene	11.888	112	94835	17.794 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	35321	19.053 ug/l	98
67) Ethyl Benzene	11.965	91	158600	17.828 ug/l	97
68) m/p-Xylenes	12.071	106	125551	37.278 ug/l	96
69) o-Xylene	12.394	106	60323	19.146 ug/l	99
70) Styrene	12.412	104	99383	18.082 ug/l	99
71) Bromoform	12.576	173	26968	19.333 ug/l #	98
73) Isopropylbenzene	12.694	105	151056	17.513 ug/l	100
74) N-amyl acetate	12.494	43	59614	16.239 ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.935	83	48794	16.948 ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	39212m	15.938 ug/l	
77) Bromobenzene	12.976	156	38355	16.541 ug/l	94
78) n-propylbenzene	13.035	91	175156	17.330 ug/l	98
79) 2-Chlorotoluene	13.123	91	114478	17.334 ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	131426	18.384 ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	16387	15.801 ug/l	96
82) 4-Chlorotoluene	13.217	91	114060	16.411 ug/l	98
83) tert-Butylbenzene	13.435	119	112196	18.963 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	134030	18.166 ug/l	98
85) sec-Butylbenzene	13.617	105	147689	17.672 ug/l	100
86) p-Isopropyltoluene	13.729	119	123092	17.959 ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	73601	16.265 ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	72855	16.823 ug/l	99
89) n-Butylbenzene	14.053	91	100465	15.670 ug/l	98
90) Hexachloroethane	14.329	117	25635	16.771 ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	72406	16.651 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	9684	16.604 ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	33879	14.234 ug/l	94
94) Hexachlorobutadiene	15.500	225	15881	15.194 ug/l	96
95) Naphthalene	15.641	128	102086	14.330 ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	33780	14.621 ug/l	98

Sample Results: **VN084766.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084766.D
Acq On : 11 Nov 2024 12:54
Operator : JC\MD
Sample : VN1111WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 12 04:51:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/12/2024
Supervised By :Mahesh Dadoda 11/12/2024

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

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

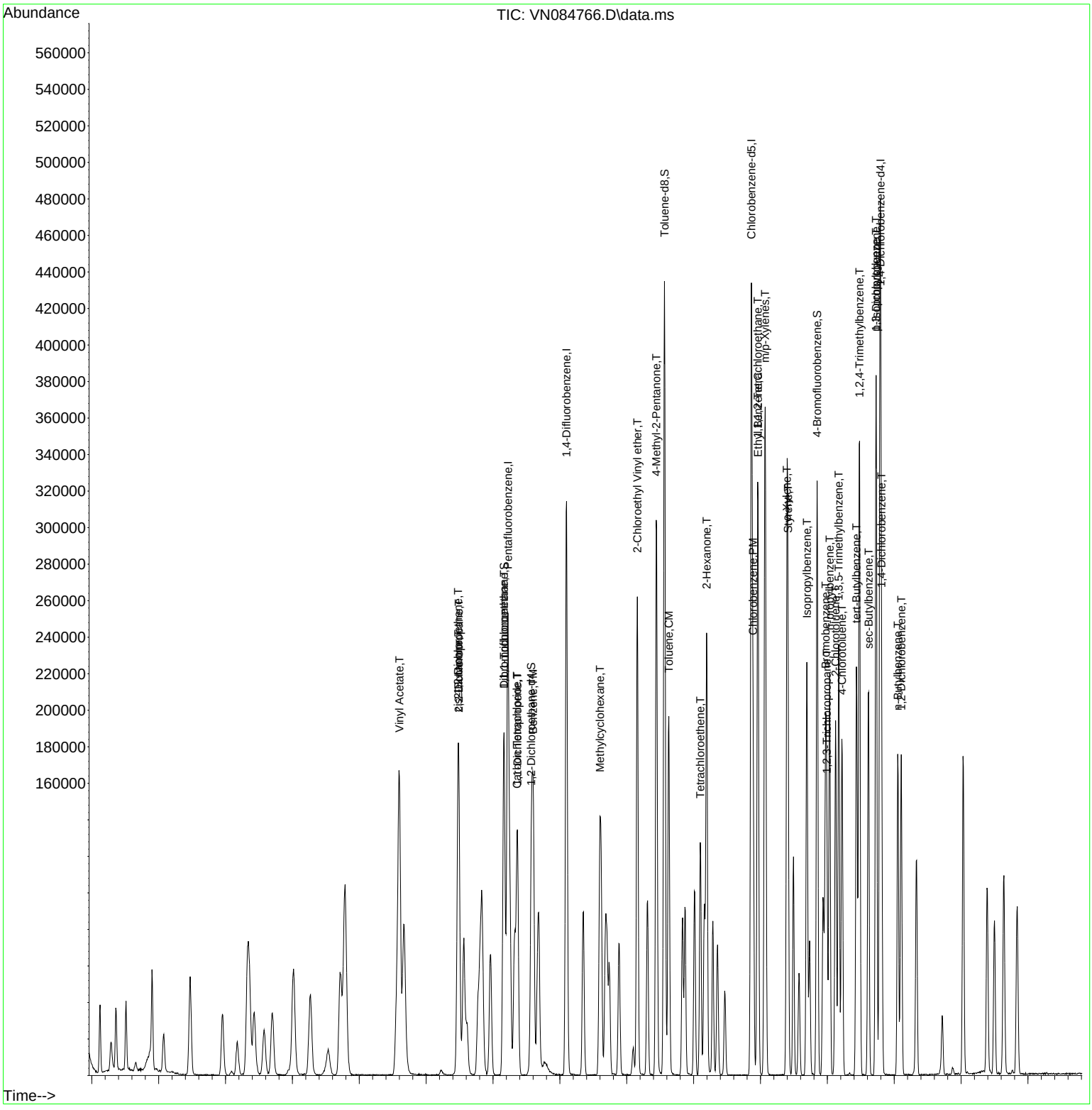
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
Data File : VN084766.D
Acq On : 11 Nov 2024 12:54
Operator : JC\MD
Sample : VN1111WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 12 04:51:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/12/2024
Supervised By :Mahesh Dadoda 11/12/2024



Raw Data: **VN084741.D**

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	VN1108WBSD01	SDG No.:	P4722
Lab Sample ID:	VN1108WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084741.D	1		11/08/24 11:43	VN110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.6		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		0.26	1.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.1		0.25	1.00	ug/L
67-66-3	Chloroform	19.2		0.26	1.00	ug/L
71-43-2	Benzene	18.6		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.3		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.7		74 - 125	95%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	47.3		86 - 113	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		77 - 121	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	8.218			
540-36-3	1,4-Difluorobenzene	277000	9.094			
3114-55-4	Chlorobenzene-d5	246000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.788			

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

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

Sample Results: **VN084741.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084741.D
Acq On : 08 Nov 2024 11:43
Operator : JC\MD
Sample : VN1108WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:28:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	163813	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	277196	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	246235	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120765	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	112888	47.712	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.420%			
35) Dibromofluoromethane	8.159	113	88421	47.126	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.260%			
50) Toluene-d8	10.565	98	326909	47.298	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.600%			
62) 4-Bromofluorobenzene	12.847	95	120820	46.773	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	32436	17.224	ug/l	94
3) Chloromethane	2.359	50	36853	14.909	ug/l	92
4) Vinyl Chloride	2.512	62	35685	17.618	ug/l	98
5) Bromomethane	2.901	94	19303	17.987	ug/l	98
6) Chloroethane	3.059	64	26858m	20.602	ug/l	
7) Trichlorofluoromethane	3.465	101	60306	18.075	ug/l	97
8) Diethyl Ether	3.953	74	21967	18.664	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	36137	19.168	ug/l	96
10) Methyl Iodide	4.577	142	48044	19.067	ug/l	99
11) Tert butyl alcohol	5.542	59	36824	117.910	ug/l	100
12) 1,1-Dichloroethene	4.324	96	33346	17.875	ug/l	97
13) Acrolein	4.183	56	26382	84.714	ug/l	100
14) Allyl chloride	5.012	41	54464	18.003	ug/l	92
15) Acrylonitrile	5.718	53	94426	104.440	ug/l	100
16) Acetone	4.430	43	79288	114.465	ug/l	92
17) Carbon Disulfide	4.695	76	90004	15.667	ug/l	98
18) Methyl Acetate	5.018	43	50279	17.548	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	115179	20.144	ug/l	96
20) Methylene Chloride	5.265	84	39358	18.914	ug/l	85
21) trans-1,2-Dichloroethene	5.777	96	34301	17.907	ug/l	96
22) Diisopropyl ether	6.671	45	117287	19.511	ug/l	97
23) Vinyl Acetate	6.600	43	404463	97.566	ug/l	98
24) 1,1-Dichloroethane	6.559	63	68723	19.042	ug/l	99
25) 2-Butanone	7.483	43	124574	112.857	ug/l	98
26) 2,2-Dichloropropane	7.483	77	60114	19.137	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	41518	18.562	ug/l	99
28) Bromochloromethane	7.812	49	30106	20.937	ug/l	90
29) Tetrahydrofuran	7.841	42	79515	108.584	ug/l	94
30) Chloroform	7.965	83	70586	19.215	ug/l	100
31) Cyclohexane	8.253	56	56613	17.331	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	65446	19.574	ug/l	99
36) 1,1-Dichloropropene	8.371	75	46594	17.906	ug/l	98
37) Ethyl Acetate	7.553	43	49828	21.105	ug/l	97
38) Carbon Tetrachloride	8.353	117	55495	19.080	ug/l	97
39) Methylcyclohexane	9.594	83	48395	18.281	ug/l	97
40) Benzene	8.600	78	155569	18.616	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084741.D
Acq On : 08 Nov 2024 11:43
Operator : JC\MD
Sample : VN1108WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:28:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	26658	20.997	ug/l		95
42) 1,2-Dichloroethane	8.665	62	52550	19.417	ug/l		100
43) Isopropyl Acetate	8.682	43	84614	18.797	ug/l		98
44) Trichloroethene	9.353	130	35954	18.655	ug/l		94
45) 1,2-Dichloropropane	9.618	63	36767	18.755	ug/l		97
46) Dibromomethane	9.706	93	27266	19.711	ug/l		98
47) Bromodichloromethane	9.888	83	56233	19.285	ug/l	#	98
48) Methyl methacrylate	9.677	41	37901	20.627	ug/l		97
49) 1,4-Dioxane	9.694	88	15636	480.210	ug/l	#	80
51) 4-Methyl-2-Pentanone	10.441	43	250598	111.343	ug/l		98
52) Toluene	10.629	92	95723	19.585	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	57070	18.908	ug/l		100
54) cis-1,3-Dichloropropene	10.312	75	60551	18.955	ug/l		99
55) 1,1,2-Trichloroethane	11.012	97	37192	20.202	ug/l		95
56) Ethyl methacrylate	10.871	69	57790	21.701	ug/l		96
57) 1,3-Dichloropropane	11.159	76	63144	19.984	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	139887	112.259	ug/l		96
59) 2-Hexanone	11.194	43	184568	112.663	ug/l		98
60) Dibromochloromethane	11.359	129	43079	20.531	ug/l		98
61) 1,2-Dibromoethane	11.471	107	37618	19.953	ug/l		97
64) Tetrachloroethene	11.100	164	31525	19.248	ug/l		98
65) Chlorobenzene	11.888	112	100856	18.308	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	38908	20.306	ug/l		95
67) Ethyl Benzene	11.959	91	173400	18.858	ug/l		96
68) m/p-Xylenes	12.071	106	134607	38.667	ug/l		98
69) o-Xylene	12.394	106	64664	19.856	ug/l		99
70) Styrene	12.412	104	110872	19.517	ug/l		99
71) Bromoform	12.576	173	29882	20.725	ug/l	#	96
73) Isopropylbenzene	12.694	105	162742	19.230	ug/l		100
74) N-amyl acetate	12.494	43	71201	19.767	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	55464	19.635	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	52127m	21.593	ug/l		
77) Bromobenzene	12.976	156	41887	18.411	ug/l		93
78) n-propylbenzene	13.035	91	185049	18.660	ug/l		97
79) 2-Chlorotoluene	13.123	91	121386	18.733	ug/l		98
80) 1,3,5-Trimethylbenzene	13.170	105	137545	19.609	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.735	75	18734	18.411	ug/l		97
82) 4-Chlorotoluene	13.217	91	123905	18.169	ug/l		100
83) tert-Butylbenzene	13.435	119	112585	19.394	ug/l		96
84) 1,2,4-Trimethylbenzene	13.482	105	142262	19.651	ug/l		100
85) sec-Butylbenzene	13.612	105	153424	18.710	ug/l		100
86) p-Isopropyltoluene	13.729	119	128285	19.076	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	76875	17.314	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	76001	17.947	ug/l		98
89) n-Butylbenzene	14.053	91	103692	16.483	ug/l		98
90) Hexachloroethane	14.329	117	26245	17.500	ug/l		95
91) 1,2-Dichlorobenzene	14.106	146	77341	18.127	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11666	20.386	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	39374	16.860	ug/l		97
94) Hexachlorobutadiene	15.494	225	17928	17.482	ug/l		96
95) Naphthalene	15.641	128	128477	18.380	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	39322	17.346	ug/l		100

Sample Results: **VN084741.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084741.D
Acq On : 08 Nov 2024 11:43
Operator : JC\MD
Sample : VN1108WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:28:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110824\
Data File : VN084741.D
Acq On : 08 Nov 2024 11:43
Operator : JC\MD
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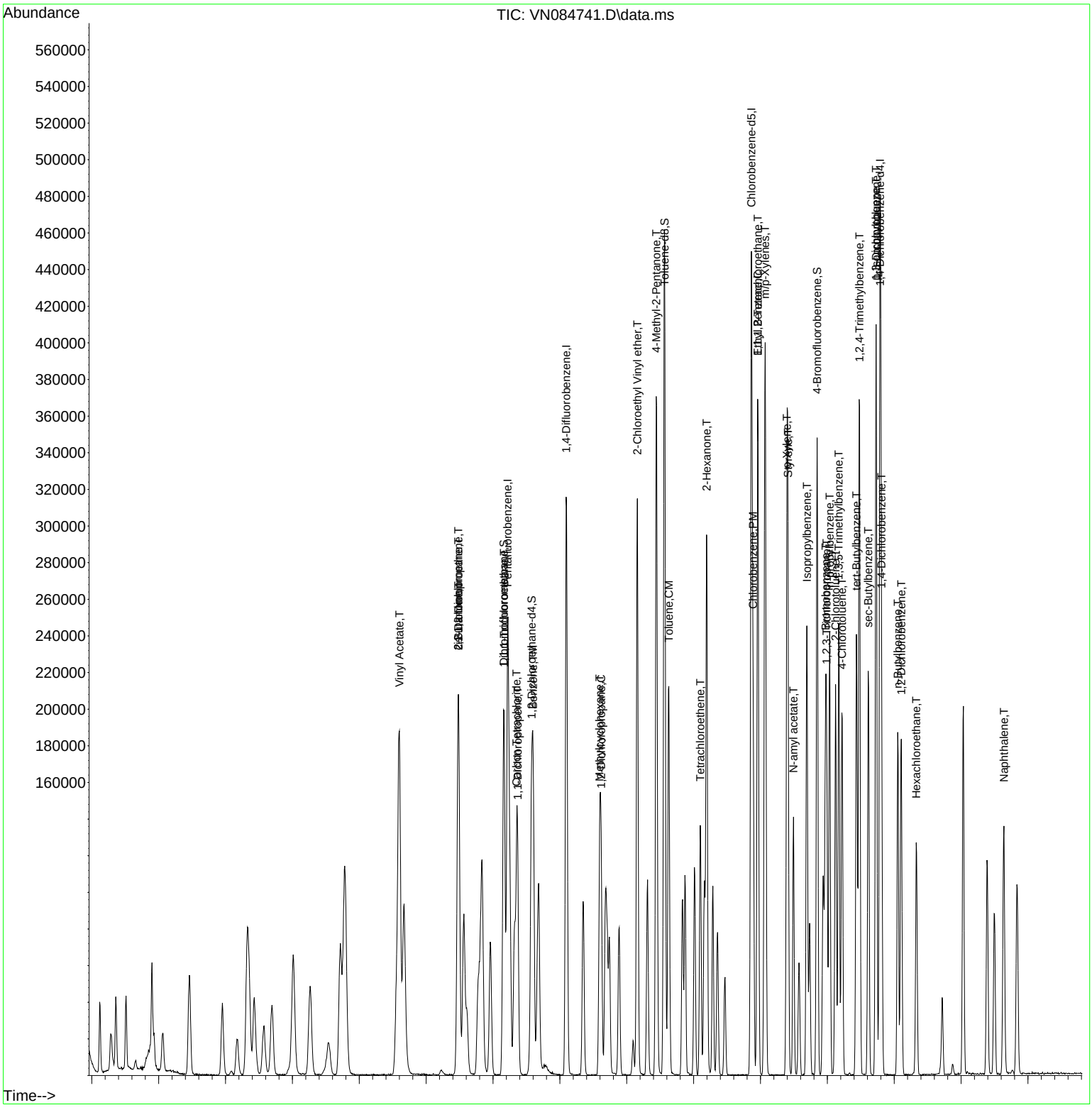
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1108WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024



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

Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084570.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:14 AM	MMDadoda	11/4/2024 1:18:00 AM	Peak Integrated by Software
VSTDICCC050	VN084571.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:15 AM	MMDadoda	11/4/2024 1:18:01 AM	Peak Integrated by Software
VSTDICC020	VN084572.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:16 AM	MMDadoda	11/4/2024 1:18:03 AM	Peak Integrated by Software
VSTDICC010	VN084573.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:17 AM	MMDadoda	11/4/2024 1:18:04 AM	Peak Integrated by Software
VSTDICC005	VN084574.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:20 AM	MMDadoda	11/4/2024 1:18:05 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,4-Dichlorobenzene	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Acetone	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Diethyl Ether	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICV050	VN084577.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:23 AM	MMDadoda	11/4/2024 1:18:09 AM	Peak Integrated by Software
VSTDCCC050	VN084579.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software
VSTDCCC050	VN084579.D	trans-1,4-Dichloro-2-but ene	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	vn110824	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084737.D	1,2,3-Trichloropropane	SAM	11/9/2024 11:06:04 AM	MMDadoda	11/11/2024 12:59:32 PM	Peak Integrated by Software
VN1108WBS01	VN084740.D	1,2,3-Trichloropropane	SAM	11/9/2024 11:06:09 AM	MMDadoda	11/11/2024 12:59:33 PM	Peak Integrated by Software
VN1108WBSD01	VN084741.D	1,2,3-Trichloropropane	JOHN	11/11/2024 9:55:24 AM	MMDadoda	11/11/2024 12:59:35 PM	Peak Integrated by Software
VN1108WBSD01	VN084741.D	Chloroethane	JOHN	11/11/2024 9:55:24 AM	MMDadoda	11/11/2024 12:59:35 PM	Peak Integrated by Software
VSTDCCC050	VN084761.D	1,2,3-Trichloropropane	SAM	11/9/2024 11:06:42 AM	MMDadoda	11/11/2024 12:59:40 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VN111124	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084763.D	1,2,3-Trichloropropane	JOHN	11/11/2024 2:37:23 PM	MMDadoda	11/12/2024 2:45:42 PM	Peak Integrated by Software
VN1111WBS01	VN084766.D	1,2,3-Trichloropropane	JOHN	11/12/2024 9:48:05 AM	MMDadoda	11/12/2024 2:45:43 PM	Peak Integrated by Software
VSTDCCC050	VN084787.D	1,2,3-Trichloropropane	JOHN	11/12/2024 9:48:14 AM	MMDadoda	11/12/2024 2:45:46 PM	Peak Integrated by Software
VSTDCCC050	VN084787.D	trans-1,4-Dichloro-2-but ene	JOHN	11/12/2024 9:48:14 AM	MMDadoda	11/12/2024 2:45:46 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM				
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM				
SubDirectory	VN103024	HP Acquire Method	MSVOA_N		HP Processing Method	82n103024w.m	

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084569.D	30 Oct 2024 10:42	JC\MD	Ok
2	VSTDICC100	VN084570.D	30 Oct 2024 11:46	JC\MD	Ok,M
3	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	JC\MD	Ok,M
4	VSTDICC020	VN084572.D	30 Oct 2024 12:33	JC\MD	Ok,M
5	VSTDICC010	VN084573.D	30 Oct 2024 12:57	JC\MD	Ok,M
6	VSTDICC005	VN084574.D	30 Oct 2024 13:21	JC\MD	Ok,M
7	VSTDICC001	VN084575.D	30 Oct 2024 13:45	JC\MD	Ok,M
8	VIBLK	VN084576.D	30 Oct 2024 14:42	JC\MD	Ok
9	VSTDICV050	VN084577.D	30 Oct 2024 15:06	JC\MD	Ok,M
10	BFB	VN084578.D	30 Oct 2024 19:24	JC\MD	Ok
11	VSTDCCC050	VN084579.D	30 Oct 2024 20:12	JC\MD	Ok,M
12	VN1030MBL01	VN084580.D	30 Oct 2024 20:48	JC\MD	Ok
13	VN1030WBL01	VN084581.D	30 Oct 2024 21:12	JC\MD	Ok
14	VN1030WBS01	VN084582.D	30 Oct 2024 21:46	JC\MD	Ok,M
15	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10	JC\MD	Ok,M
16	P4594-04	VN084584.D	30 Oct 2024 22:34	JC\MD	Ok,M
17	P4594-08	VN084585.D	30 Oct 2024 22:58	JC\MD	Ok
18	P4594-12	VN084586.D	30 Oct 2024 23:22	JC\MD	Ok
19	P4594-16	VN084587.D	30 Oct 2024 23:46	JC\MD	Ok
20	P4594-20	VN084588.D	31 Oct 2024 00:09	JC\MD	Ok
21	P4597-03	VN084589.D	31 Oct 2024 00:34	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM				
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM				
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4597-06	VN084590.D	31 Oct 2024 00:57	JC\MD	Ok,M
23	P4597-09	VN084591.D	31 Oct 2024 01:21	JC\MD	Ok
24	P4597-12	VN084592.D	31 Oct 2024 01:45	JC\MD	Ok,M
25	P4598-04	VN084593.D	31 Oct 2024 02:09	JC\MD	Ok
26	P4598-08	VN084594.D	31 Oct 2024 02:33	JC\MD	Ok
27	P4598-12	VN084595.D	31 Oct 2024 02:57	JC\MD	Ok
28	P4611-03	VN084596.D	31 Oct 2024 03:21	JC\MD	Ok
29	P4611-06	VN084597.D	31 Oct 2024 03:45	JC\MD	Ok
30	P4611-09	VN084598.D	31 Oct 2024 04:09	JC\MD	Ok
31	P4611-12	VN084599.D	31 Oct 2024 04:33	JC\MD	Ok
32	P4611-15	VN084600.D	31 Oct 2024 04:57	JC\MD	Ok
33	P4611-18	VN084601.D	31 Oct 2024 05:21	JC\MD	Ok
34	P4612-04	VN084602.D	31 Oct 2024 05:45	JC\MD	Ok
35	P4613-02	VN084603.D	31 Oct 2024 06:09	JC\MD	Ok
36	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	JC\MD	Ok,M
37	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	JC\MD	Ok,M
38	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	JC\MD	Ok,M
39	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	JC\MD	Ok
40	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	JC\MD	Ok,M
41	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	JC\MD	Ok,M
42	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	JC\MD	Ok,M
43	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	JC\MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN110824

Review By	John Carlone	Review On	11/11/2024 10:14:30 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/11/2024 12:59:46 PM				
SubDirectory	VN110824	HP Acquire Method	MSVOA_N		HP Processing Method	82N103024W.M	

STD. NAME	STD REF.#
Tune/Reschk	VP131356
Initial Calibration Stds	
CCC	VP131357,VP131358
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084736.D	08 Nov 2024 08:18	JC\MD	Ok
2	VSTDCCC050	VN084737.D	08 Nov 2024 09:39	JC\MD	Ok,M
3	VN1108MBL01	VN084738.D	08 Nov 2024 10:20	JC\MD	Not Ok
4	VN1108WBL01	VN084739.D	08 Nov 2024 10:44	JC\MD	Ok
5	VN1108WBS01	VN084740.D	08 Nov 2024 11:19	JC\MD	Ok,M
6	VN1108WBSD01	VN084741.D	08 Nov 2024 11:43	JC\MD	Ok,M
7	VIBLK	VN084742.D	08 Nov 2024 12:07	JC\MD	Ok
8	PB164695TB	VN084743.D	08 Nov 2024 12:31	JC\MD	Ok
9	P4719-03	VN084744.D	08 Nov 2024 12:55	JC\MD	Ok
10	P4720-05	VN084745.D	08 Nov 2024 13:19	JC\MD	Ok,M
11	P4774-01	VN084746.D	08 Nov 2024 13:44	JC\MD	Ok
12	P4774-02	VN084747.D	08 Nov 2024 14:08	JC\MD	Ok
13	P4774-03	VN084748.D	08 Nov 2024 14:32	JC\MD	Ok
14	P4774-04	VN084749.D	08 Nov 2024 14:56	JC\MD	Ok
15	P4774-05	VN084750.D	08 Nov 2024 15:20	JC\MD	Ok
16	P4774-06	VN084751.D	08 Nov 2024 15:44	JC\MD	Dilution
17	P4774-07	VN084752.D	08 Nov 2024 16:08	JC\MD	Dilution
18	VIBLK	VN084753.D	08 Nov 2024 16:32	JC\MD	Ok
19	P4722-02	VN084754.D	08 Nov 2024 16:56	JC\MD	Ok
20	P4738-02	VN084755.D	08 Nov 2024 17:20	JC\MD	Ok
21	P4739-04	VN084756.D	08 Nov 2024 17:44	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN110824

Review By	John Carlone	Review On	11/11/2024 10:14:30 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/11/2024 12:59:46 PM				
SubDirectory	VN110824	HP Acquire Method	MSVOA_N		HP Processing Method	82N103024W.M	

STD. NAME	STD REF.#
Tune/Reschk	VP131356
Initial Calibration Stds	
CCC	VP131357,VP131358
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4739-08	VN084757.D	08 Nov 2024 18:08	JC\MD	Ok
23	P4739-08	VN084758.D	08 Nov 2024 18:32	JC\MD	Not Ok
24	P4739-12	VN084759.D	08 Nov 2024 18:56	JC\MD	Ok,M
25	VIBLK	VN084760.D	08 Nov 2024 19:20	JC\MD	Ok
26	VSTDCCC050	VN084761.D	08 Nov 2024 19:44	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN111124

Review By	John Carlone	Review On	11/12/2024 10:06:56 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/12/2024 2:45:50 PM		
SubDirectory	VN111124	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131367
Initial Calibration Stds	
CCC	VP131368,VP131369
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084762.D	11 Nov 2024 10:21	JC\MD	Ok
2	VSTDCCC050	VN084763.D	11 Nov 2024 10:54	JC\MD	Ok,M
3	VN1111MBL01	VN084764.D	11 Nov 2024 12:06	JC\MD	Ok
4	VN1111WBL01	VN084765.D	11 Nov 2024 12:30	JC\MD	Ok
5	VN1111WBS01	VN084766.D	11 Nov 2024 12:54	JC\MD	Ok,M
6	P4774-06DL	VN084767.D	11 Nov 2024 13:18	JC\MD	Ok
7	P4774-07DL	VN084768.D	11 Nov 2024 13:42	JC\MD	Ok
8	VN1111WBSD01	VN084769.D	11 Nov 2024 14:06	JC\MD	Ok,M
9	P4722-07	VN084770.D	11 Nov 2024 14:30	JC\MD	Ok
10	P4722-12	VN084771.D	11 Nov 2024 14:54	JC\MD	Ok
11	P4722-16	VN084772.D	11 Nov 2024 15:18	JC\MD	Ok
12	P4722-18	VN084773.D	11 Nov 2024 15:42	JC\MD	Ok
13	P4722-20	VN084774.D	11 Nov 2024 16:06	JC\MD	Ok
14	PB164794TB	VN084775.D	11 Nov 2024 16:30	JC\MD	Ok
15	P4756-04	VN084776.D	11 Nov 2024 16:54	JC\MD	Ok
16	P4771-06	VN084777.D	11 Nov 2024 17:18	JC\MD	Ok
17	P4771-08	VN084778.D	11 Nov 2024 17:42	JC\MD	Ok
18	P4788-04	VN084779.D	11 Nov 2024 18:06	JC\MD	Ok
19	P4789-04	VN084780.D	11 Nov 2024 18:30	JC\MD	Ok
20	P4792-06	VN084781.D	11 Nov 2024 18:54	JC\MD	Ok
21	P4793-02	VN084782.D	11 Nov 2024 19:18	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN111124

Review By	John Carlone	Review On	11/12/2024 10:06:56 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/12/2024 2:45:50 PM		
SubDirectory	VN111124	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131367
Initial Calibration Stds	
CCC	VP131368,VP131369
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4795-02	VN084783.D	11 Nov 2024 19:42	JC\MD	Ok
23	P4798-04	VN084784.D	11 Nov 2024 20:06	JC\MD	Ok
24	P4792-04	VN084785.D	11 Nov 2024 20:30	JC\MD	ReRun
25	P4791-02	VN084786.D	11 Nov 2024 20:54	JC\MD	ReRun
26	VSTDCCC050	VN084787.D	11 Nov 2024 21:18	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084569.D	30 Oct 2024 10:42		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN084570.D	30 Oct 2024 11:46	Comp #03 fail for %D	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	LR-03,06,16,18,43	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN084572.D	30 Oct 2024 12:33	QR-88	JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN084573.D	30 Oct 2024 12:57		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN084574.D	30 Oct 2024 13:21		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN084575.D	30 Oct 2024 13:45		JC\MD	Ok,M
8	VIBLK	VIBLK	VN084576.D	30 Oct 2024 14:42		JC\MD	Ok
9	VSTDICV050	ICVVN103024	VN084577.D	30 Oct 2024 15:06		JC\MD	Ok,M
10	BFB	BFB	VN084578.D	30 Oct 2024 19:24		JC\MD	Ok
11	VSTDCCC050	VSTDCCC050	VN084579.D	30 Oct 2024 20:12		JC\MD	Ok,M
12	VN1030MBL01	VN1030MBL01	VN084580.D	30 Oct 2024 20:48		JC\MD	Ok
13	VN1030WBL01	VN1030WBL01	VN084581.D	30 Oct 2024 21:12		JC\MD	Ok
14	VN1030WBS01	VN1030WBS01	VN084582.D	30 Oct 2024 21:46		JC\MD	Ok,M
15	VN1030WBSD01	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10		JC\MD	Ok,M
16	P4594-04	TP-4	VN084584.D	30 Oct 2024 22:34	pH#5.0 A	JC\MD	Ok,M
17	P4594-08	BP-F17	VN084585.D	30 Oct 2024 22:58	pH#5.0 A	JC\MD	Ok
18	P4594-12	BP-F16	VN084586.D	30 Oct 2024 23:22	pH#5.0 A	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4594-16	TP-5	VN084587.D	30 Oct 2024 23:46	pH#7.0 A	JC\MD	Ok
20	P4594-20	BP-F15	VN084588.D	31 Oct 2024 00:09	pH#6.0 A	JC\MD	Ok
21	P4597-03	RED-1-1	VN084589.D	31 Oct 2024 00:34	pH#6.0 A	JC\MD	Ok
22	P4597-06	RED-1-2	VN084590.D	31 Oct 2024 00:57	pH#5.0 A	JC\MD	Ok,M
23	P4597-09	BLUE-2-1	VN084591.D	31 Oct 2024 01:21	pH#5.0 A	JC\MD	Ok
24	P4597-12	BLUE-2-2	VN084592.D	31 Oct 2024 01:45	pH#5.0 A	JC\MD	Ok,M
25	P4598-04	BP-F12	VN084593.D	31 Oct 2024 02:09	pH#7.0 A	JC\MD	Ok
26	P4598-08	BP-F11	VN084594.D	31 Oct 2024 02:33	pH#7.0 A	JC\MD	Ok
27	P4598-12	TP-8	VN084595.D	31 Oct 2024 02:57	pH#6.0 A	JC\MD	Ok
28	P4611-03	TP-1	VN084596.D	31 Oct 2024 03:21	pH#5.0 A	JC\MD	Ok
29	P4611-06	TP-2	VN084597.D	31 Oct 2024 03:45	pH#5.0 A	JC\MD	Ok
30	P4611-09	TP-3	VN084598.D	31 Oct 2024 04:09	pH#5.0 A	JC\MD	Ok
31	P4611-12	TP-4	VN084599.D	31 Oct 2024 04:33	pH#5.0 A	JC\MD	Ok
32	P4611-15	TP-5	VN084600.D	31 Oct 2024 04:57	pH#5.0 A	JC\MD	Ok
33	P4611-18	TP-6	VN084601.D	31 Oct 2024 05:21	pH#5.0 A	JC\MD	Ok
34	P4612-04	MOO-24-00335	VN084602.D	31 Oct 2024 05:45	pH#5.0 A	JC\MD	Ok
35	P4613-02	ARS20-0001	VN084603.D	31 Oct 2024 06:09	pH#5.0 A	JC\MD	Ok
36	PB164501ZHE#13	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	pH#5.0 A	JC\MD	Ok,M
37	PB164501ZHE#14	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	pH#5.0 A	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	PB164501ZHE#15	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	pH#5.0 A	JC\MD	Ok,M
39	PB164501ZHE#16	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	pH#5.0 A	JC\MD	Ok
40	PB164501ZHE#17	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	pH#5.0 A	JC\MD	Ok,M
41	PB164501ZHE#18	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	pH#5.0 A	JC\MD	Ok,M
42	PB164501ZHE#19	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	pH#5.0 A	JC\MD	Ok,M
43	PB164501ZHE#20	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	pH#5.0 A	JC\MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN110824

Review By	John Carlone	Review On	11/11/2024 10:14:30 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/11/2024 12:59:46 PM		
SubDirectory	VN110824	HP Acquire Method	MSVOA_N	HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131356
Initial Calibration Stds	
CCC	VP131357,VP131358
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084736.D	08 Nov 2024 08:18		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084737.D	08 Nov 2024 09:39		JC\MD	Ok,M
3	VN1108MBL01	VN1108MBL01	VN084738.D	08 Nov 2024 10:20	Contaminated	JC\MD	Not Ok
4	VN1108WBL01	VN1108WBL01	VN084739.D	08 Nov 2024 10:44		JC\MD	Ok
5	VN1108WBS01	VN1108WBS01	VN084740.D	08 Nov 2024 11:19		JC\MD	Ok,M
6	VN1108WBSD01	VN1108WBSD01	VN084741.D	08 Nov 2024 11:43		JC\MD	Ok,M
7	VIBLK	VIBLK	VN084742.D	08 Nov 2024 12:07		JC\MD	Ok
8	PB164695TB	PB164695TB	VN084743.D	08 Nov 2024 12:31	vial B pH#5.0	JC\MD	Ok
9	P4719-03	BAYAVE-STOCKPILE	VN084744.D	08 Nov 2024 12:55	vial B pH#5.0	JC\MD	Ok
10	P4720-05	JC-701-COMP-01	VN084745.D	08 Nov 2024 13:19	vial B pH#5.0	JC\MD	Ok,M
11	P4774-01	BP-VPB-190-TB-20241	VN084746.D	08 Nov 2024 13:44	vial A pH<2 TB	JC\MD	Ok
12	P4774-02	VPB190-HYD-2024110	VN084747.D	08 Nov 2024 14:08	vial A pH<2	JC\MD	Ok
13	P4774-03	BP-VPB-190-EB-20241	VN084748.D	08 Nov 2024 14:32	vial A pH<2 EB	JC\MD	Ok
14	P4774-04	BP-VPB-190-DUP-202	VN084749.D	08 Nov 2024 14:56	vial A pH<2	JC\MD	Ok
15	P4774-05	BP-VPB-190-GW-618-6	VN084750.D	08 Nov 2024 15:20	vial A pH<2	JC\MD	Ok
16	P4774-06	BP-VPB-190-GW-638-6	VN084751.D	08 Nov 2024 15:44	vial A pH<2 Need 5X	JC\MD	Dilution
17	P4774-07	BP-VPB-190-GW-658-6	VN084752.D	08 Nov 2024 16:08	vial A pH<2 Need 10X	JC\MD	Dilution
18	VIBLK	VIBLK	VN084753.D	08 Nov 2024 16:32		JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN110824

Review By	John Carlone	Review On	11/11/2024 10:14:30 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/11/2024 12:59:46 PM		
SubDirectory	VN110824	HP Acquire Method	MSVOA_N	HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131356
Initial Calibration Stds	
CCC	VP131357,VP131358
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4722-02	WC-1(3.5)	VN084754.D	08 Nov 2024 16:56	vial B pH#6.0	JC\MD	Ok
20	P4738-02	72-12018	VN084755.D	08 Nov 2024 17:20	vial B pH#5.0	JC\MD	Ok
21	P4739-04	TP-14	VN084756.D	08 Nov 2024 17:44	vial B pH#5.0	JC\MD	Ok
22	P4739-08	BP-G2	VN084757.D	08 Nov 2024 18:08	vial B pH#5.0	JC\MD	Ok
23	P4739-08	BP-G2	VN084758.D	08 Nov 2024 18:32	Already analyzed	JC\MD	Not Ok
24	P4739-12	BP-B2	VN084759.D	08 Nov 2024 18:56	vial B pH#5.0	JC\MD	Ok,M
25	VIBLK	VIBLK	VN084760.D	08 Nov 2024 19:20		JC\MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VN084761.D	08 Nov 2024 19:44		JC\MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN111124

Review By	John Carlone	Review On	11/12/2024 10:06:56 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/12/2024 2:45:50 PM		
SubDirectory	VN111124	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131367
Initial Calibration Stds	
CCC	VP131368,VP131369
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084762.D	11 Nov 2024 10:21		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084763.D	11 Nov 2024 10:54	V13516	JC\MD	Ok,M
3	VN1111MBL01	VN1111MBL01	VN084764.D	11 Nov 2024 12:06		JC\MD	Ok
4	VN1111WBL01	VN1111WBL01	VN084765.D	11 Nov 2024 12:30		JC\MD	Ok
5	VN1111WBS01	VN1111WBS01	VN084766.D	11 Nov 2024 12:54		JC\MD	Ok,M
6	P4774-06DL	BP-VPB-190-GW-638-6	VN084767.D	11 Nov 2024 13:18	vial B pH<2	JC\MD	Ok
7	P4774-07DL	BP-VPB-190-GW-658-6	VN084768.D	11 Nov 2024 13:42	vial B pH<2	JC\MD	Ok
8	VN1111WBSD01	VN1111WBSD01	VN084769.D	11 Nov 2024 14:06		JC\MD	Ok,M
9	P4722-07	WC-2(4)	VN084770.D	11 Nov 2024 14:30	vial B pH#5.0	JC\MD	Ok
10	P4722-12	WC-3(3)	VN084771.D	11 Nov 2024 14:54	vial B pH#5.0	JC\MD	Ok
11	P4722-16	WC-1(5.5)	VN084772.D	11 Nov 2024 15:18	vial B pH#5.0	JC\MD	Ok
12	P4722-18	WC-2(2)	VN084773.D	11 Nov 2024 15:42	vial B pH#5.0	JC\MD	Ok
13	P4722-20	WC-3(5)	VN084774.D	11 Nov 2024 16:06	vial B pH#5.0	JC\MD	Ok
14	PB164794TB	PB164794TB	VN084775.D	11 Nov 2024 16:30		JC\MD	Ok
15	P4756-04	BP-B4	VN084776.D	11 Nov 2024 16:54	vial A pH#5.0	JC\MD	Ok
16	P4771-06	P-1	VN084777.D	11 Nov 2024 17:18	vial A pH#5.0	JC\MD	Ok
17	P4771-08	P-2	VN084778.D	11 Nov 2024 17:42	vial A pH#5.0	JC\MD	Ok
18	P4788-04	BP-G3	VN084779.D	11 Nov 2024 18:06	vial A pH#5.0	JC\MD	Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN111124

Review By	John Carlone	Review On	11/12/2024 10:06:56 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/12/2024 2:45:50 PM		
SubDirectory	VN111124	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131367
Initial Calibration Stds	
CCC	VP131368,VP131369
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4789-04	BP-F21	VN084780.D	11 Nov 2024 18:30	vial A pH#5.0	JC\MD	Ok
20	P4792-06	OILY-STONE-DRUM	VN084781.D	11 Nov 2024 18:54	vial A pH#5.0	JC\MD	Ok
21	P4793-02	M00-24-00345	VN084782.D	11 Nov 2024 19:18	vial A pH#5.0	JC\MD	Ok
22	P4795-02	LAW-23-00189	VN084783.D	11 Nov 2024 19:42	vial A pH#5.0	JC\MD	Ok
23	P4798-04	MH-6	VN084784.D	11 Nov 2024 20:06	vial A pH#5.0	JC\MD	Ok
24	P4792-04	MANHOLE-WASTE-DR	VN084785.D	11 Nov 2024 20:30	CCC high for com #16 and low for com #17; BS/BSD low	JC\MD	ReRun
25	P4791-02	HINCHMAN-OILY-WAT	VN084786.D	11 Nov 2024 20:54	CCC high for com #16 and low for com #17; BS/BSD low	JC\MD	ReRun
26	VSTDCCC050	VSTDCCC050EC	VN084787.D	11 Nov 2024 21:18		JC\MD	Ok,M

M : Manual Integration

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TCLP EXTRACTION LOGPAGE

PB164695

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : ZHE-1 / ZHE-2

TCLP Filter ID : 50223706

Start Prep Date : 11/06/2024 **Time :** 16:45

End Prep Date : 11/07/2024 **Time :** 09:35

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 23 °C

TCLP Technician Signature : JP

Supervisor By : SJ

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	22437	N/A

Extraction Conformance/Non-Conformance Comments:

TUMBLER ZHE-1 / ZHE-2 checked,30 rpm. ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 mintues of tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/24 11:00	JP TCLP Room	SJ VOC Lab
	Preparation Group	Analysis Group

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TCLP EXTRACTION LOGPAGE

PB164695

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4718-03	WB-307-SB02	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4719-03	BAYAVE-STOCKPILE	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4720-05	JC-701-COMP-01	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-02	WC-1(3.5)	04	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-07	WC-2(4)	05	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-12	WC-3(3)	06	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-16	WC-1(5.5)	07	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-18	WC-2(2)	08	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-20	WC-3(5)	09	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4732-05	PPE-Grab	10	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4738-02	72-12018	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4739-04	TP-14	12	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4739-08	BP-G2	13	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4739-12	BP-B2	14	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4739-16	TP-11	15	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
PB164695TB	LEB695	16	N/A	500	N/A	N/A	N/A	4.94	N/A	ZHE-2

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TCLP Solid Determination

PB164695

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4718-03	WB-307-SB02	N/A	N/A	N/A	N/A	100	N/A
P4719-03	BAYAVE-STOCKPILE	N/A	N/A	N/A	N/A	100	N/A
P4720-05	JC-701-COMP-01	N/A	N/A	N/A	N/A	100	N/A
P4722-02	WC-1(3.5)	N/A	N/A	N/A	N/A	100	N/A
P4722-07	WC-2(4)	N/A	N/A	N/A	N/A	100	N/A
P4722-12	WC-3(3)	N/A	N/A	N/A	N/A	100	N/A
P4722-16	WC-1(5.5)	N/A	N/A	N/A	N/A	100	N/A
P4722-18	WC-2(2)	N/A	N/A	N/A	N/A	100	N/A
P4722-20	WC-3(5)	N/A	N/A	N/A	N/A	100	N/A
P4732-05	PPE-Grab	N/A	N/A	N/A	N/A	100	N/A
P4738-02	72-12018	N/A	N/A	N/A	N/A	100	N/A
P4739-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
P4739-08	BP-G2	N/A	N/A	N/A	N/A	100	N/A
P4739-12	BP-B2	N/A	N/A	N/A	N/A	100	N/A
P4739-16	TP-11	N/A	N/A	N/A	N/A	100	N/A
PB164695TB	LEB695	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp zhe p4719 **WorkList ID :** 185150 **Department :** TCLP Extraction **Date :** 11-06-2024 07:55:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4718-03	WB-307-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L21	11/04/2024	1311 ZHE
P4719-03	BAYAVE-STOCKPILE	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K21	11/05/2024	1311 ZHE
P4720-05	JC-701-COMP-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K31	11/05/2024	1311 ZHE
P4722-02	WC-1(3.5)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-07	WC-2(4)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-12	WC-3(3)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-16	WC-1(5.5)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-18	WC-2(2)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-20	WC-3(5)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4732-05	PPE-Grab	Solid	TCLP ZHE Extraction	Cool 4 deg C	FURI01	L11	11/06/2024	1311 ZHE
P4738-02	72-12018	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L23	11/06/2024	1311 ZHE
P4739-04	TP-14	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311 ZHE
P4739-08	BP-G2	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311 ZHE
P4739-12	BP-B2	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311 ZHE
P4739-16	TP-11	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311 ZHE

Date/Time 11/06/24 16:10

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 11/06/24 16:00

Raw Sample Received by:

Raw Sample Relinquished by:

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

QUOTE NO. P4722
COC Number 2046205

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Walsh Construction Company
ADDRESS: 150 CLOVE ROAD, 11th FLOOR
CITY LITTLE FALLS STATE: NJ ZIP: 07424
ATTENTION:
PHONE: 201-691-6000 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: C547A Construction of Shafts 17B1-18B1
PROJECT NO.: 220084 LOCATION: Shaft 18B-1
PROJECT MANAGER: Jesse SYLVESTRI
e-mail: JSYLVESTRI@WALSHGROUP.COM
PHONE: 201-681-9740 FAX:

CLIENT BILLING INFORMATION

BILL TO: JESSE SYLVESTRI PO#:
ADDRESS: 150 CLOVE ROAD, 11th FLOOR
CITY LITTLE FALLS STATE: NJ ZIP: 07424
ATTENTION: Jesse SYLVESTRI PHONE: 201-681-9740

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

ANALYSIS

1 TCL VOCs + TICs, 8260C
2 TCL SVOCs + 10 TICs, 8270D
3 TAL Metals 6010D/7471B
4 Total Cyanide 9012B Tri+ Hex Chrome 3060A/7196A
5 Pest/Herb/PCB 8081B/8082A
6 SPLP VOCs, SVOCs Metals, Pest/Herb/PCB
7 TCLP SVOCs, Pest/Herb/PCB
8 NJ EPH 10/14 GRO 8015D
9 RCRA Characteristics Ignitability, Corrosivity, Reactivity, Sulfide, Cyanide SW846 Ch 7.3
Specific compounds

PRESERVATIVES

Method Blank

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	PRES 1	PRES 2	PRES 3	PRES 4	PRES 5	PRES 6	PRES 7	PRES 8	PRES 9
1.	WC-1 (5.5)	S		✓	11/5/24	1155	5	X								
2.	WC-1 (3.5)	S		✓		1225	5	X								
3.	WC-1 (0-6)	S	✓			1240	10		X	X	X	X	X	X	X	X
4.	WC-2 (2)	S		✓		1000	5	X								
5.	WC-2 (4)	S		✓		1020	5	X								
6.	WC-2 (0-6)	S	✓			1045	10		X	X	X	X	X	X	X	X
7.	WC-3 (5)	S		✓		815	5	X								
8.	WC-3 (3)	S		✓		845	5	X								
9.	WC-3 (0-6)	S	✓			910	10		X	X	X	X	X	X	X	X
10.																

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

	DATE/TIME	RECEIVED BY:
1 RELINQUISHED BY SAMPLER:	11/5/24 1:15pm	1. Bernie DE
2 RELINQUISHED BY SAMPLER: Bernie DE	11-5-24 1406	2. 1406 11-5-24
3 RELINQUISHED BY SAMPLER:	11-5-24 17:30	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON-COMPLIANT ☐ COOLER TEMP 3.7 °C

Comments: Additional Analyses: Paint Filter 9095A Total Solids SM2540B Total Volatile Solids SM2540B Ammonia as Nitrogen 350.1 Chemical Oxygen Demand 410.4 0.1 and Grease 9071B Full analytes list in email from Bill Fitchett 11/5/24

Page _____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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

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

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4722 WALS01
Client Name : Walsh Construction Compa
Client Contact : Kayla Timony
Invoice Name : Walsh Construction Compa
Invoice Contact : Kayla Timony

Order Date : 11/5/2024 3:33:08 PM
Project Name : NYCDEP C547A - Shafts 1
Receive DateTime : 11/5/2024 5:32:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 2
EDD Type : Excel NY
Hard Copy Date :
Date Signoff : 11/6/2024 11:17:21 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4722-01	WC-1(5.5)	Solid	11/05/2024	11:55					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-06	WC-2(2)	Solid	11/05/2024	10:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-11	WC-3(5)	Solid	11/05/2024	08:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-17	WC-1(3.5)	Solid	11/05/2024	12:25					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-19	WC-2(4)	Solid	11/05/2024	10:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-21	WC-3(3)	Solid	11/05/2024	08:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4722 WALS01
Client Name : Walsh Construction Compa
Client Contact : Kayla Timony
Invoice Name : Walsh Construction Compa
Invoice Contact : Kayla Timony

Order Date : 11/5/2024 3:33:08 PM
Project Name : NYCDEP C547A - Shafts 1
Receive DateTime : 11/5/2024 5:32:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 2
EDD Type : Excel NY
Hard Copy Date :
Date Signoff : 11/6/2024 11:17:21 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By :
Date / Time : 11/6/24 1218

Received By : Roman 12:20
Date / Time : 11/06/24
Storage Area : VOA Refridgerator Room