

Cover Page

Order ID : P4871

Project ID : Meeker Ave Plumes Superfund Site RI FS

Client : AECOM

Lab Sample Number

P4871-01

Client Sample Number

WC-10-A-202411

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: 11/26/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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 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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4871

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: PRADIP PRAJAPATI

Date: 11/26/2024

LAB CHRONICLE

OrderID:	P4871	OrderDate:	11/15/2024 9:09:00 AM
Client:	AECOM	Project:	Meeker Ave Plumes Superfund Site RI FS
Contact:	Amit Haryani	Location:	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4871-01	WC-10-A-202411	TCLP	TCLP VOA	8260D	11/13/24		11/18/24	11/14/24
P4871-01DL	WC-10-A-202411DL	TCLP	TCLP VOA	8260D	11/13/24		11/19/24	11/14/24

Hit Summary Sheet
SW-846

SDG No.: P4871
Client: AECOM

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	WC-10-A-202411							
P4871-01	WC-10-A-202411	TCLP	Vinyl Chloride	12.6		0.34	5.00	ug/L
P4871-01	WC-10-A-202411	TCLP	Benzene	18.8		0.16	5.00	ug/L
P4871-01	WC-10-A-202411	TCLP	Trichloroethene	220	E	0.32	5.00	ug/L
P4871-01	WC-10-A-202411	TCLP	Tetrachloroethene	2500	E	0.25	5.00	ug/L
			Total Voc :	2750				
			Total Concentration:	2750				
Client ID:	WC-10-A-202411DL							
P4871-01DL	WC-10-A-202411D	TCLP	Trichloroethene	220	JD	32.0	500	ug/L
P4871-01DL	WC-10-A-202411D	TCLP	Tetrachloroethene	2500	D	25.0	500	ug/L
			Total Voc :	2720				
			Total Concentration:	2720				



QC SUMMARY

Surrogate Summary

SDG No.: P4871

Client: AECOM

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4871-01	WC-10-A-202411	1,2-Dichloroethane-d4	50	48.8	98	74	125
		Dibromofluoromethane	50	46.5	93	75	124
		Toluene-d8	50	47.6	95	86	113
		4-Bromofluorobenzene	50	55.9	112	77	121
P4871-01DL	WC-10-A-202411DL	1,2-Dichloroethane-d4	50	52.1	104	74	125
		Dibromofluoromethane	50	47.2	94	75	124
		Toluene-d8	50	45.9	92	86	113
		4-Bromofluorobenzene	50	47.9	96	77	121

Surrogate Summary

SDG No.: P4871

Client: AECOM

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VN1118WBL01	VN1118WBL01	1,2-Dichloroethane-d4	50	52.4	105	74	125
		Dibromofluoromethane	50	49.6	99	75	124
		Toluene-d8	50	45.7	91	86	113
		4-Bromofluorobenzene	50	45.2	90	77	121
VN1118WBS01	VN1118WBS01	1,2-Dichloroethane-d4	50	51.1	102	74	125
		Dibromofluoromethane	50	51.7	103	75	124
		Toluene-d8	50	51.1	102	86	113
		4-Bromofluorobenzene	50	56.6	113	77	121
VN1118WBSD0	VN1118WBSD01	1,2-Dichloroethane-d4	50	47.7	95	74	125
		Dibromofluoromethane	50	47.3	95	75	124
		Toluene-d8	50	46.1	92	86	113
		4-Bromofluorobenzene	50	49.8	100	77	121
VN1119WBL01	VN1119WBL01	1,2-Dichloroethane-d4	50	51.3	103	74	125
		Dibromofluoromethane	50	48.4	97	75	124
		Toluene-d8	50	46.5	93	86	113
		4-Bromofluorobenzene	50	45.9	92	77	121
VN1119WBS01	VN1119WBS01	1,2-Dichloroethane-d4	50	47.8	96	74	125
		Dibromofluoromethane	50	46.5	93	75	124
		Toluene-d8	50	45.6	91	86	113
		4-Bromofluorobenzene	50	48.2	96	77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4871

Client: AECOM

Analytical Method: SW8260-Low

Datafile : VN084919.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1118WBS01	Vinyl chloride	20	20.6	ug/L	103			65	117	
	1,1-Dichloroethene	20	20.9	ug/L	104			74	110	
	2-Butanone	100	120	ug/L	120			65	122	
	Carbon Tetrachloride	20	21.6	ug/L	108			77	113	
	Chloroform	20	22.0	ug/L	110			79	113	
	Benzene	20	21.2	ug/L	106			82	109	
	1,2-Dichloroethane	20	21.9	ug/L	110			80	115	
	Trichloroethene	20	20.3	ug/L	102			77	113	
	Tetrachloroethene	20	20.4	ug/L	102			67	123	
	Chlorobenzene	20	21.5	ug/L	108			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4871

Client: AECOM

Analytical Method: SW8260-Low

Datafile : VN084923.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1118WBSD01	Vinyl chloride	20	18.2	ug/L	91	12		65	117	20
	1,1-Dichloroethene	20	18.1	ug/L	91	13		74	110	20
	2-Butanone	100	100	ug/L	100	18		65	122	20
	Carbon Tetrachloride	20	18.5	ug/L	93	15		77	113	20
	Chloroform	20	19.0	ug/L	95	15		79	113	20
	Benzene	20	17.9	ug/L	90	16		82	109	20
	1,2-Dichloroethane	20	18.6	ug/L	93	17		80	115	20
	Trichloroethene	20	17.5	ug/L	88	15		77	113	20
	Tetrachloroethene	20	17.1	ug/L	86	17		67	123	20
	Chlorobenzene	20	17.7	ug/L	89	19		82	109	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4871

Client: AECOM

Analytical Method: SW8260-Low

Datafile : VN084938.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1119WBS01	Vinyl chloride	20	19.4	ug/L	97			65	117	
	1,1-Dichloroethene	20	18.9	ug/L	95			74	110	
	2-Butanone	100	120	ug/L	120			65	122	
	Carbon Tetrachloride	20	19.5	ug/L	98			77	113	
	Chloroform	20	20.7	ug/L	104			79	113	
	Benzene	20	19.3	ug/L	97			82	109	
	1,2-Dichloroethane	20	21.1	ug/L	106			80	115	
	Trichloroethene	20	18.7	ug/L	94			77	113	
	Tetrachloroethene	20	19.2	ug/L	96			67	123	
	Chlorobenzene	20	18.9	ug/L	95			82	109	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1118WBL01

Lab Name: CHEMTECH

Contract: AECO02

Lab Code: CHEM Case No.: P4871

SAS No.: P4871 SDG NO.: P4871

Lab File ID: VN084913.D

Lab Sample ID: VN1118WBL01

Date Analyzed: 11/18/2024

Time Analyzed: 12:27

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
VN1118WBS01	VN1118WBS01	VN084919.D	11/18/2024
VN1118WBSD01	VN1118WBSD01	VN084923.D	11/18/2024
WC-10-A-202411	P4871-01	VN084925.D	11/18/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1119WBL01

Lab Name: CHEMTECH

Contract: AECO02

Lab Code: CHEM Case No.: P4871

SAS No.: P4871 SDG NO.: P4871

Lab File ID: VN084937.D

Lab Sample ID: VN1119WBL01

Date Analyzed: 11/19/2024

Time Analyzed: 11:07

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
VN1119WBS01	VN1119WBS01	VN084938.D	11/19/2024
WC-10-A-202411DL	P4871-01DL	VN084949.D	11/19/2024

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO02
Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871
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



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO02
Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871
Lab File ID: VN084910.D BFB Injection Date: 11/18/2024
Instrument ID: MSVOA_N BFB Injection Time: 08:47
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	19.9
75	30.0 - 60.0% of mass 95	48.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	73.2
175	5.0 - 9.0% of mass 174	6.1 (8.3) 1
176	95.0 - 101.0% of mass 174	72 (98.4) 1
177	5.0 - 9.0% of mass 176	4.4 (6.1) 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	VN084911.D	11/18/2024	09:51
VN1118WBL01	VN1118WBL01	VN084913.D	11/18/2024	12:27
VN1118WBS01	VN1118WBS01	VN084919.D	11/18/2024	14:52
VN1118WBSD01	VN1118WBSD01	VN084923.D	11/18/2024	16:28
WC-10-A-202411	P4871-01	VN084925.D	11/18/2024	17:16



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO02
Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871
Lab File ID: VN084934.D BFB Injection Date: 11/19/2024
Instrument ID: MSVOA_N BFB Injection Time: 08:15
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	18
75	30.0 - 60.0% of mass 95	51.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	72.3
175	5.0 - 9.0% of mass 174	5.1 (7.1) 1
176	95.0 - 101.0% of mass 174	68.9 (95.3) 1
177	5.0 - 9.0% of mass 176	4.4 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN084935.D	11/19/2024	09:27
VN1119WBL01	VN1119WBL01	VN084937.D	11/19/2024	11:07
VN1119WBS01	VN1119WBS01	VN084938.D	11/19/2024	11:40
WC-10-A-202411DL	P4871-01DL	VN084949.D	11/19/2024	16:04

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02
Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871
Lab File ID: VN084911.D Date Analyzed: 11/18/2024
Instrument ID: MSVOA_N Time Analyzed: 09:51
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	168638	8.22	277153	9.09	245519	11.87
UPPER LIMIT	337276	8.718	554306	9.594	491038	12.365
LOWER LIMIT	84319	7.718	138577	8.594	122760	11.365
EPA SAMPLE NO.						
WC-10-A-202411	212261	8.22	374690	9.10	341618	11.87
VN1118WBL01	175680	8.22	312901	9.10	269131	11.87
VN1118WBS01	184217	8.22	316400	9.09	286519	11.87
VN1118WBSD01	187181	8.22	326112	9.10	290218	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02
 Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871
 Lab File ID: VN084911.D Date Analyzed: 11/18/2024
 Instrument ID: MSVOA_N Time Analyzed: 09:51
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	120987	13.788				
UPPER LIMIT	241974	14.288				
LOWER LIMIT	60493.5	13.288				
EPA SAMPLE NO.						
WC-10-A-202411	177257	13.79				
VN1118WBL01	114405	13.79				
VN1118WBS01	143055	13.79				
VN1118WBSD01	145074	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02
 Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871
 Lab File ID: VN084935.D Date Analyzed: 11/19/2024
 Instrument ID: MSVOA_N Time Analyzed: 09:27
 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	191121	8.22	319795	9.09	272380	11.87
UPPER LIMIT	382242	8.718	639590	9.594	544760	12.365
LOWER LIMIT	95560.5	7.718	159898	8.594	136190	11.365
EPA SAMPLE NO.						
WC-10-A-202411DL	165251	8.22	308690	9.10	269378	11.87
VN1119WBL01	193589	8.22	346862	9.10	301411	11.87
VN1119WBS01	167364	8.22	286809	9.10	252679	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02
 Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871
 Lab File ID: VN084935.D Date Analyzed: 11/19/2024
 Instrument ID: MSVOA_N Time Analyzed: 09:27
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	140060	13.788				
UPPER LIMIT	280120	14.288				
LOWER LIMIT	70030	13.288				
EPA SAMPLE NO.						
WC-10-A-202411DL	122161	13.79				
VN1119WBL01	128229	13.79				
VN1119WBS01	131165	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

Report of Analysis

Client:	AECOM	Date Collected:	11/13/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/14/24
Client Sample ID:	WC-10-A-202411	SDG No.:	P4871
Lab Sample ID:	P4871-01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :	SW5035	Level :	LOW
		Final Vol:	5000
		Test:	TCLP VOA

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084925.D	1		11/18/24 17:16	VN111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	12.6		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	1.30	U	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	18.8		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	220	E	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	2500	E	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	48.8		74 - 125	98%	SPK: 50
1868-53-7	Dibromofluoromethane	46.5		75 - 124	93%	SPK: 50
2037-26-5	Toluene-d8	47.6		86 - 113	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.9		77 - 121	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	212000	8.224			
540-36-3	1,4-Difluorobenzene	375000	9.1			
3114-55-4	Chlorobenzene-d5	342000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	177000	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\VN111824\
 Data File : VN084925.D
 Acq On : 18 Nov 2024 17:16
 Operator : JC\MD
 Sample : P4871-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-10-A-202411

Quant Time: Nov 19 00:31:18 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)

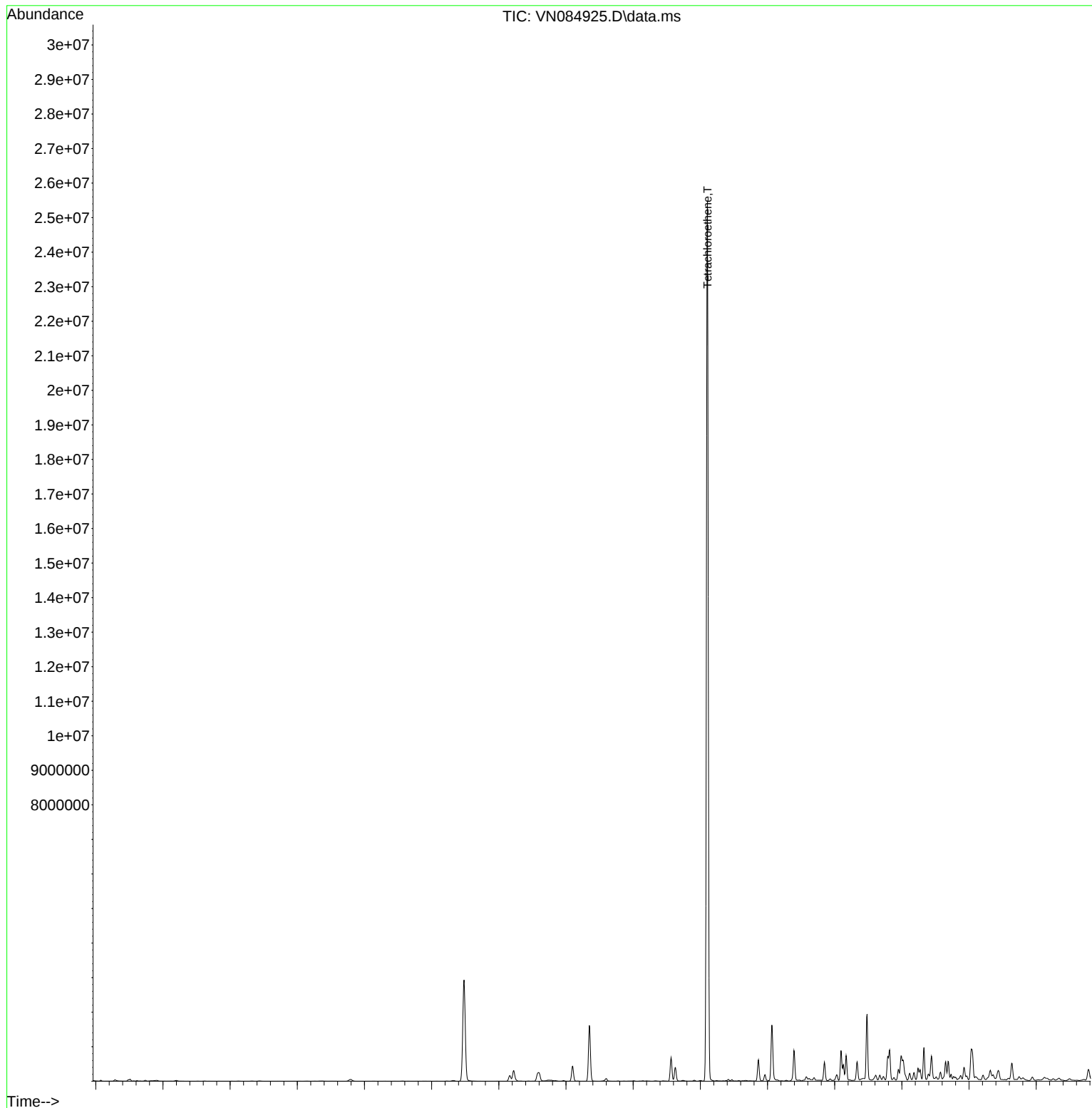
Internal Standards						
1) Pentafluorobenzene	8.224	168	212261	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	374690	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	341618	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	177257	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	149674	48.821	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.640%		
35) Dibromofluoromethane	8.165	113	117854	46.469	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.940%		
50) Toluene-d8	10.565	98	445027	47.634	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.260%		
62) 4-Bromofluorobenzene	12.847	95	195083	55.872	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	111.740%		
Target Compounds						
						Qvalue
4) Vinyl Chloride	2.512	62	32942	12.552	ug/l	98
16) Acetone	4.442	43	14443	13.612	ug/l	97
19) Methyl tert-butyl Ether	5.800	73	68523	9.249	ug/l #	83
27) cis-1,2-Dichloroethene	7.483	96	1746519	602.627	ug/l	88
31) Cyclohexane	8.247	56	22639	5.349	ug/l	97
39) Methylcyclohexane	9.594	83	33130	9.259	ug/l	98
40) Benzene	8.606	78	211902	18.759	ug/l	98
44) Trichloroethene	9.347	130	563236	216.202	ug/l	97
52) Toluene	10.629	92	178267	26.984	ug/l	100
64) Tetrachloroethene	11.106	164	5606627	2467.354	ug/l	95
67) Ethyl Benzene	11.965	91	116030	9.095	ug/l	98
68) m/p-Xylenes	12.065	106	511993	106.009	ug/l	100
69) o-Xylene	12.394	106	234408	51.882	ug/l	97
73) Isopropylbenzene	12.694	105	50888	4.097	ug/l	97
78) n-propylbenzene	13.035	91	105055	7.217	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	369828	35.922	ug/l	99
83) tert-Butylbenzene	13.435	119	17890	2.100	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	1117778	105.195	ug/l	99
85) sec-Butylbenzene	13.612	105	84257	7.000	ug/l #	73
86) p-Isopropyltoluene	13.729	119	53322	5.402	ug/l	99
95) Naphthalene	15.635	128	470689	45.877	ug/l	99

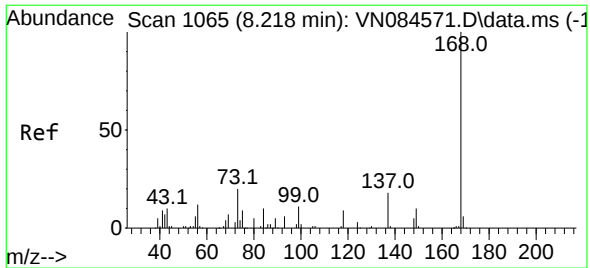
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084925.D
Acq On : 18 Nov 2024 17:16
Operator : JC\MD
Sample : P4871-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-10-A-202411

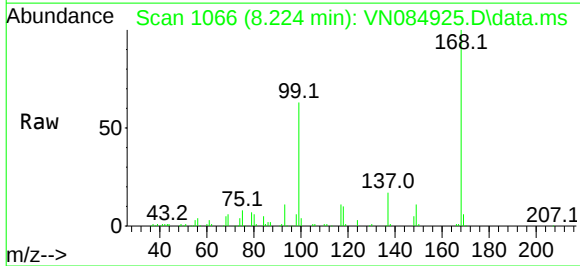
Quant Time: Nov 19 00:31:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



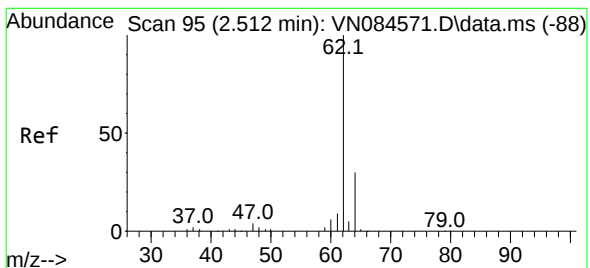
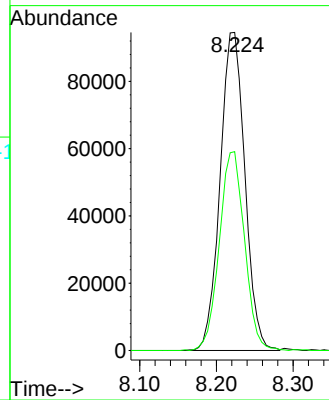
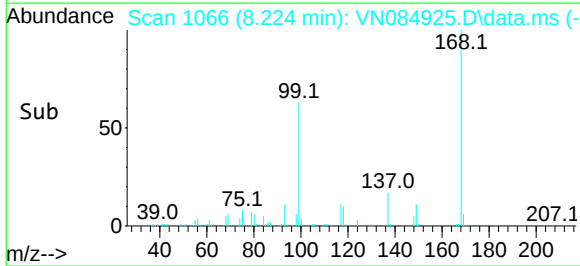


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084925.D
Acq: 18 Nov 2024 17:16

Instrument :
MSVOA_N
ClientSampleId :
WC-10-A-202411

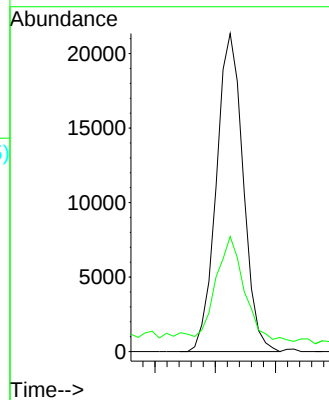
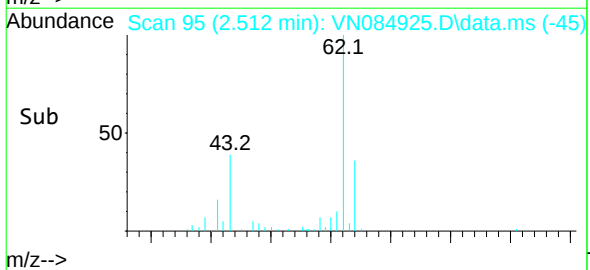
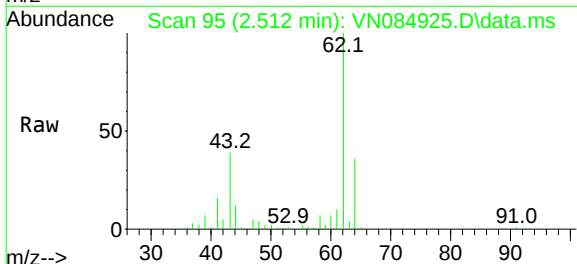


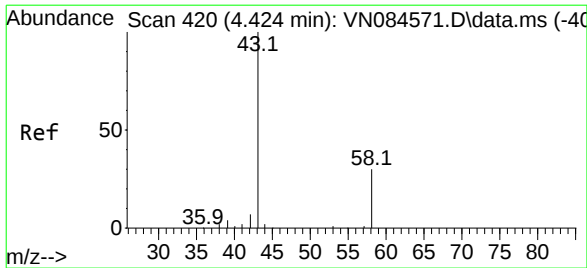
Tgt Ion: 168 Resp: 212261
Ion Ratio Lower Upper
168 100
99 62.5 54.2 81.2



#4
Vinyl Chloride
Concen: 12.552 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN084925.D
Acq: 18 Nov 2024 17:16

Tgt Ion: 62 Resp: 32942
Ion Ratio Lower Upper
62 100
64 31.8 26.2 39.4





#16

Acetone

Concen: 13.612 ug/l

RT: 4.442 min Scan# 42

Delta R.T. 0.018 min

Lab File: VN084925.D

Acq: 18 Nov 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :

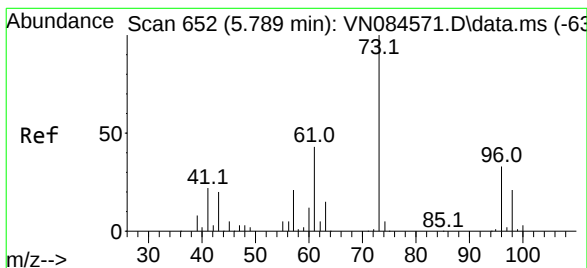
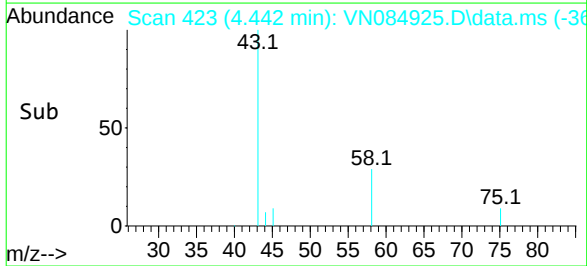
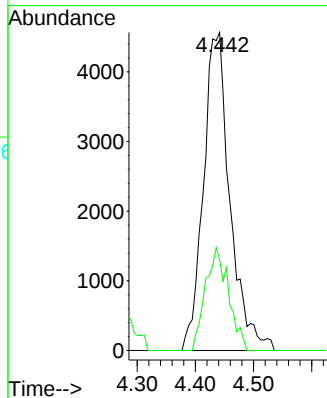
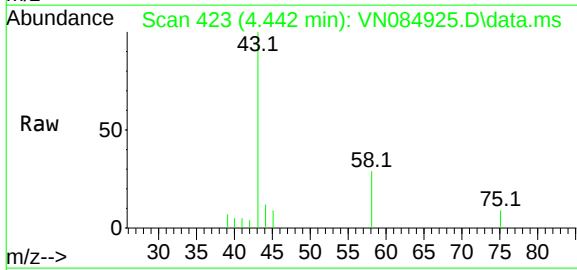
WC-10-A-202411

Tgt Ion: 43 Resp: 14443

Ion Ratio Lower Upper

43 100

58 28.6 24.4 36.6



#19

Methyl tert-butyl Ether

Concen: 9.249 ug/l

RT: 5.800 min Scan# 654

Delta R.T. 0.006 min

Lab File: VN084925.D

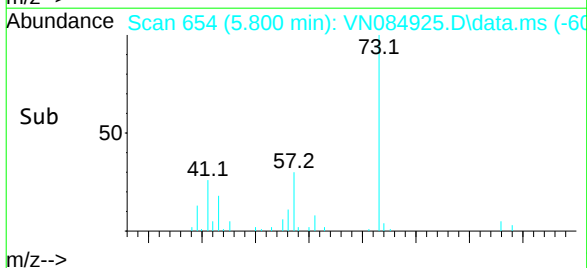
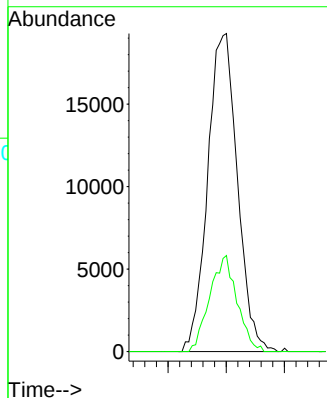
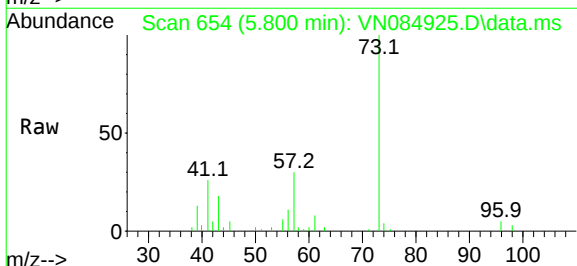
Acq: 18 Nov 2024 17:16

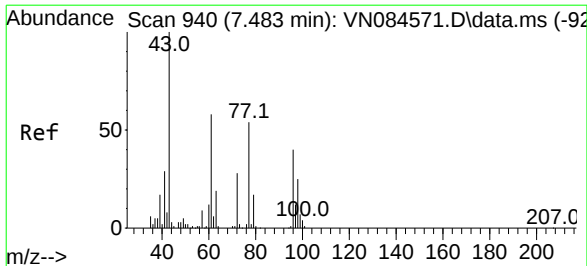
Tgt Ion: 73 Resp: 68523

Ion Ratio Lower Upper

73 100

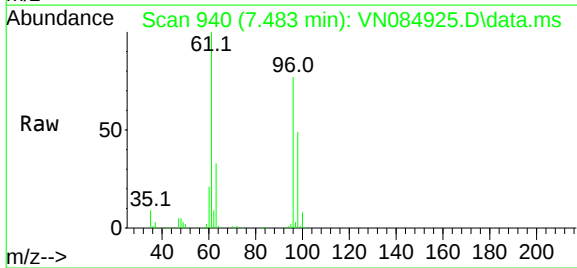
57 30.2 17.7 26.5



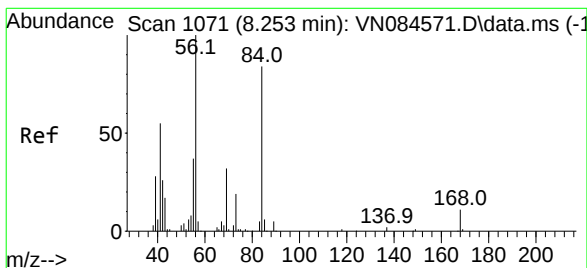
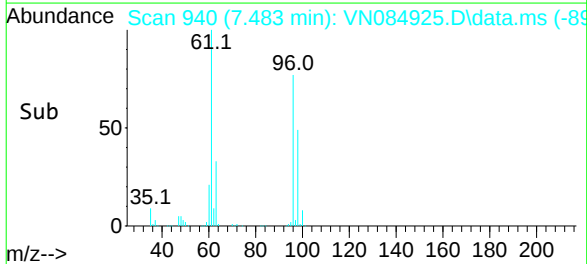
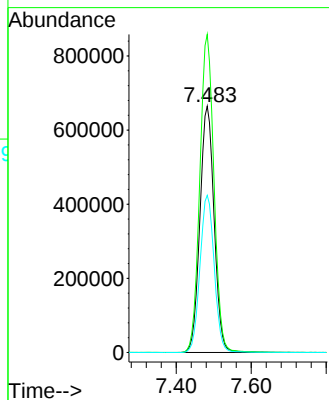


#27
cis-1,2-Dichloroethene
Concen: 602.627 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN084925.D
Acq: 18 Nov 2024 17:16

Instrument :
MSVOA_N
ClientSampleId :
WC-10-A-202411

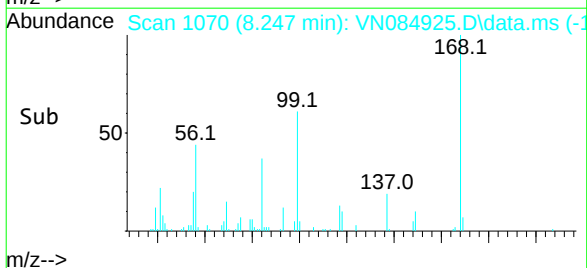
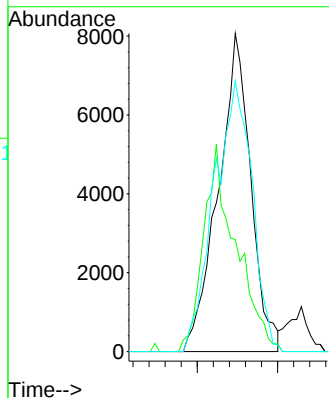
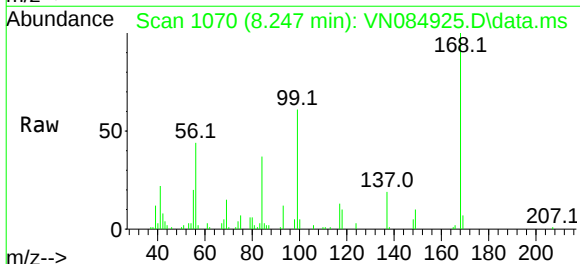


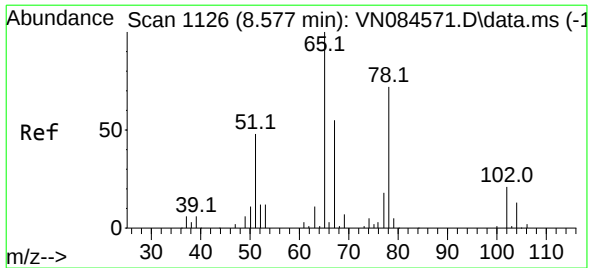
Tgt Ion: 96 Resp: 1746519
Ion Ratio Lower Upper
96 100
61 128.6 0.0 301.8
98 64.2 0.0 128.2



#31
Cyclohexane
Concen: 5.349 ug/l
RT: 8.247 min Scan# 1070
Delta R.T. -0.006 min
Lab File: VN084925.D
Acq: 18 Nov 2024 17:16

Tgt Ion: 56 Resp: 22639
Ion Ratio Lower Upper
56 100
69 35.2 23.8 35.6
84 85.1 68.8 103.2





#33

1,2-Dichloroethane-d4

Concen: 48.821 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084925.D

Acq: 18 Nov 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :

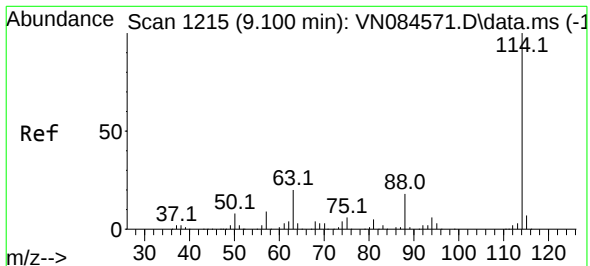
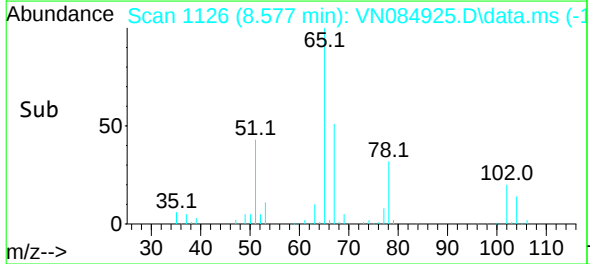
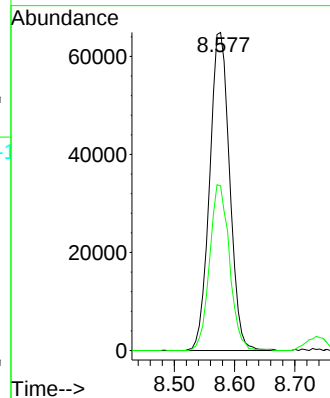
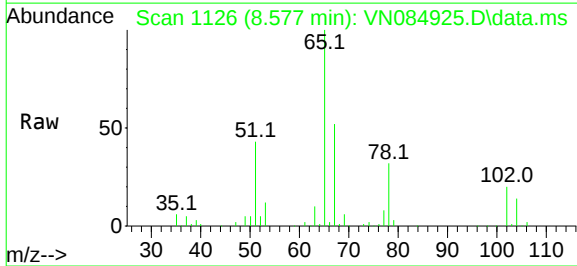
WC-10-A-202411

Tgt Ion: 65 Resp: 149674

Ion Ratio Lower Upper

65 100

67 51.8 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: VN084925.D

Acq: 18 Nov 2024 17:16

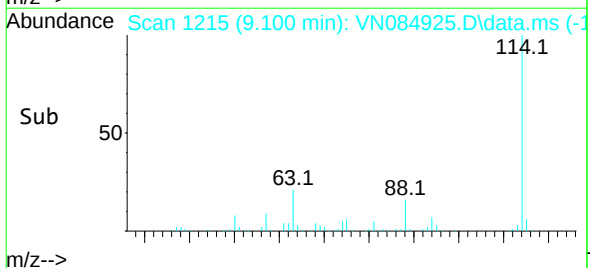
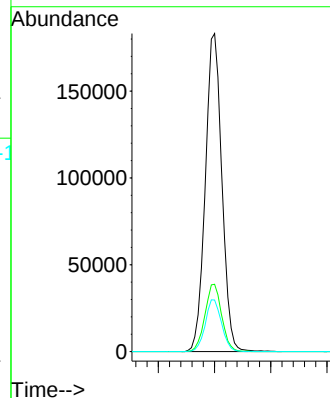
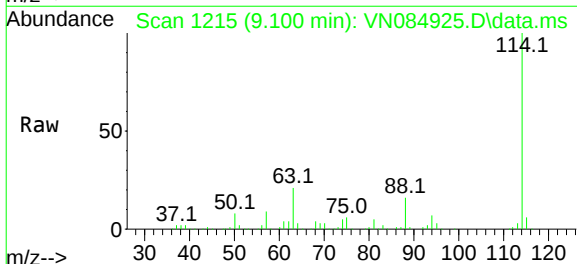
Tgt Ion: 114 Resp: 374690

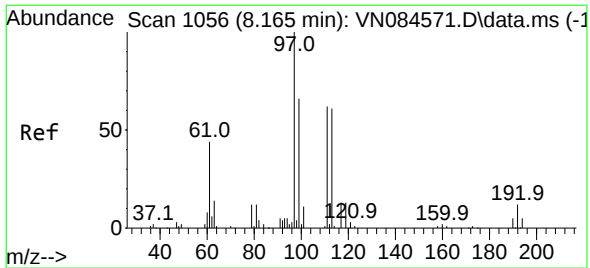
Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.8

88 16.2 0.0 31.6





#35

Dibromofluoromethane

Concen: 46.469 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084925.D

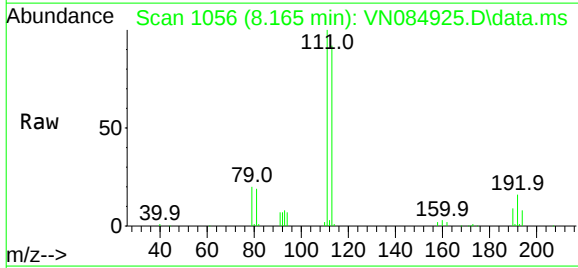
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Instrument :

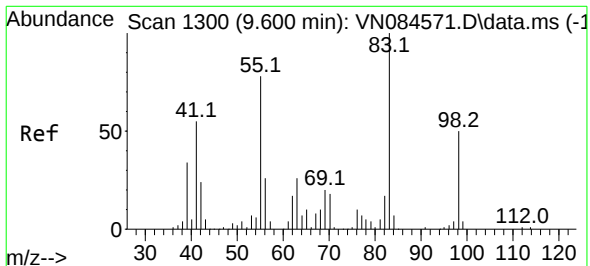
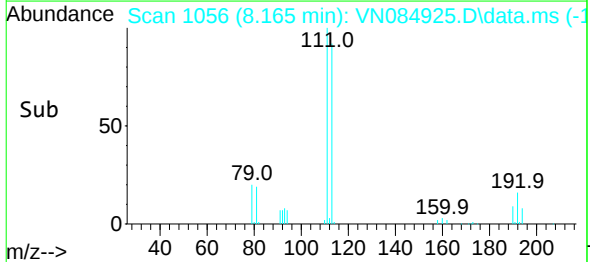
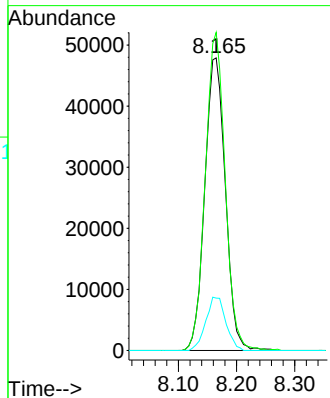
MSVOA_N

ClientSampleId :

WC-10-A-202411



Tgt Ion:	113	Resp:	117854
Ion	Ratio	Lower	Upper
113	100		
111	104.7	83.3	124.9
192	17.7	13.5	20.3



#39

Methylcyclohexane

Concen: 9.259 ug/l

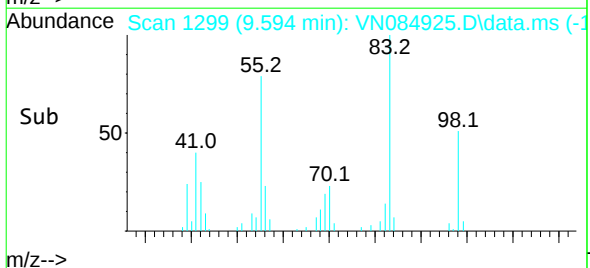
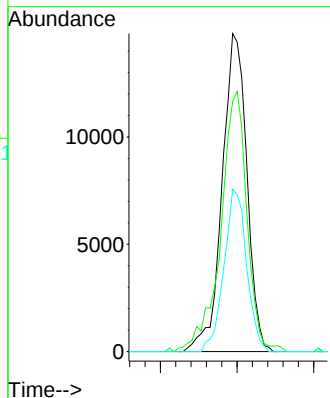
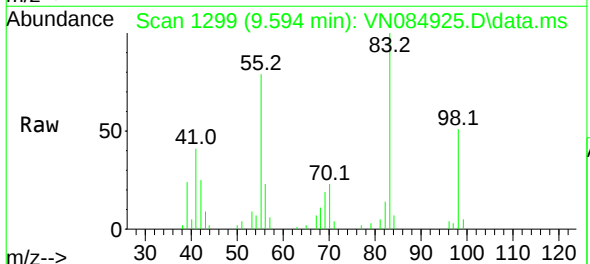
RT: 9.594 min Scan# 1299

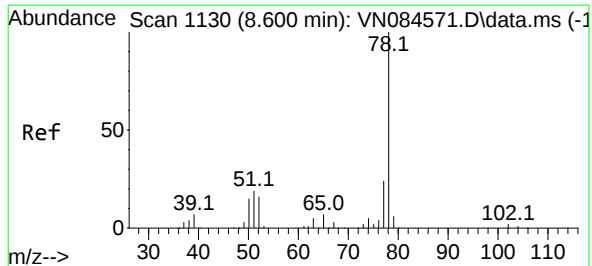
Delta R.T. -0.006 min

Lab File: VN084925.D

Acq: 18 Nov 2024 17:16

Tgt Ion:	83	Resp:	33130
Ion	Ratio	Lower	Upper
83	100		
55	77.6	62.8	94.2
98	51.0	38.8	58.2





#40

Benzene

Concen: 18.759 ug/l

RT: 8.606 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084925.D

Acq: 18 Nov 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :

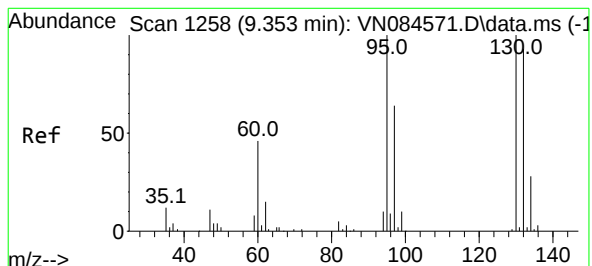
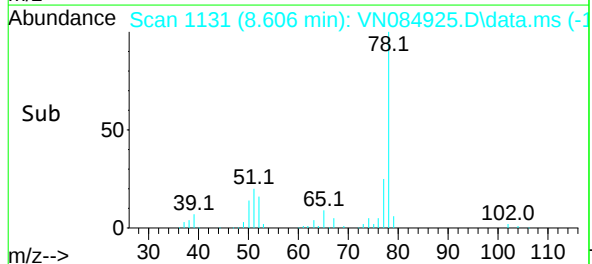
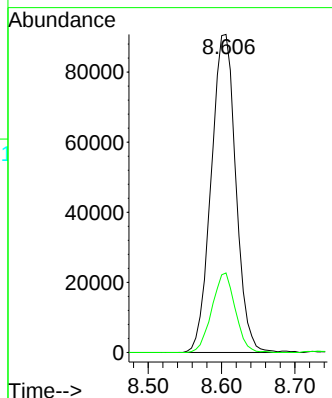
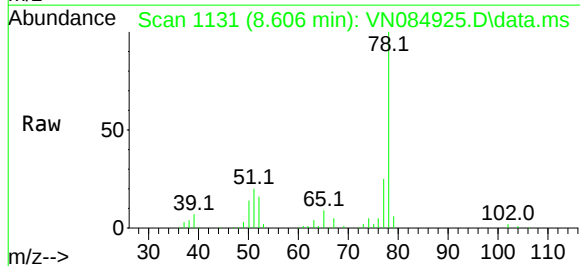
WC-10-A-202411

Tgt Ion: 78 Resp: 211902

Ion Ratio Lower Upper

78 100

77 25.0 19.1 28.7



#44

Trichloroethene

Concen: 216.202 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN084925.D

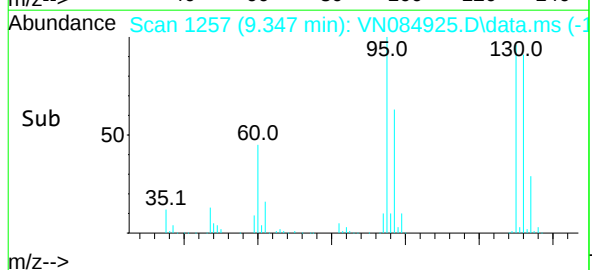
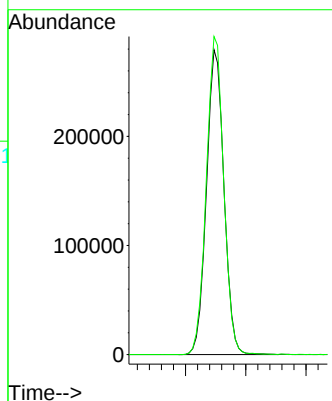
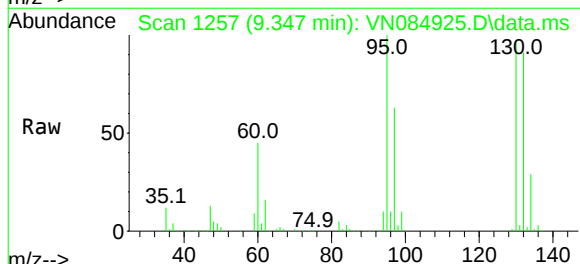
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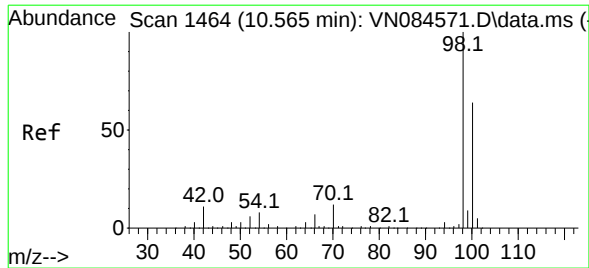
Tgt Ion: 130 Resp: 563236

Ion Ratio Lower Upper

130 100

95 104.3 0.0 203.0





#50

Toluene-d8

Concen: 47.634 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084925.D

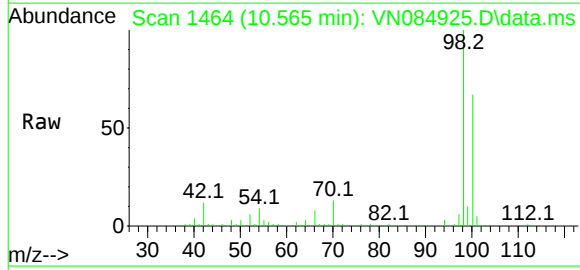
Acq: 18 Nov 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :

WC-10-A-202411

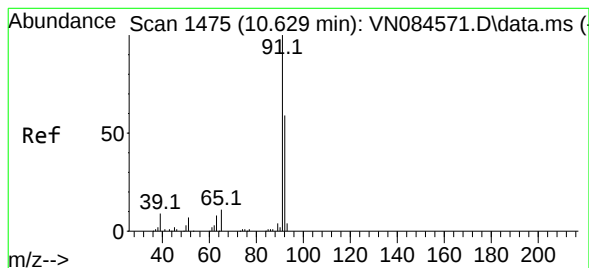
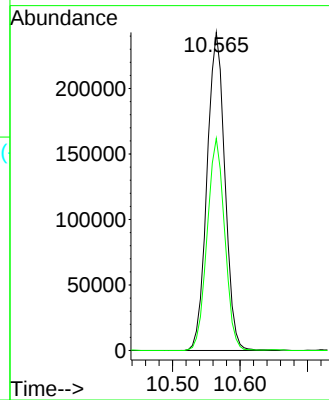
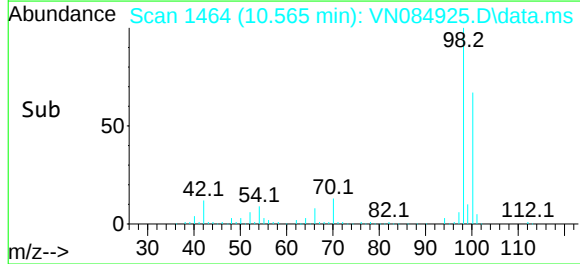


Tgt Ion: 98 Resp: 445027

Ion Ratio Lower Upper

98 100

100 65.7 52.7 79.1



#52

Toluene

Concen: 26.984 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN084925.D

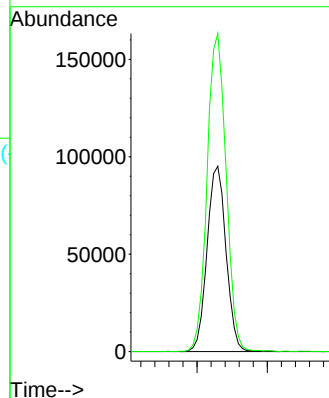
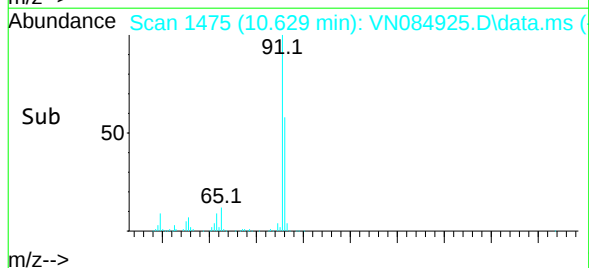
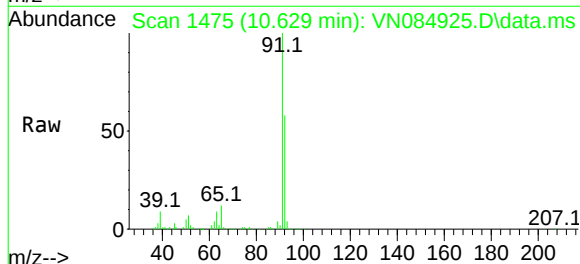
Acq: 18 Nov 2024 17:16

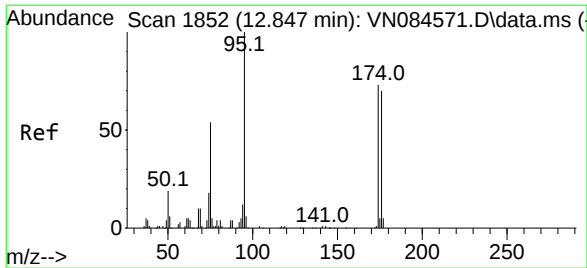
Tgt Ion: 92 Resp: 178267

Ion Ratio Lower Upper

92 100

91 171.9 137.3 205.9





#62

4-Bromofluorobenzene

Concen: 55.872 ug/l

RT: 12.847 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN084925.D

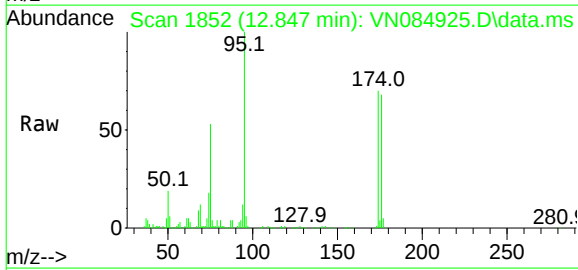
Acq: 18 Nov 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :

WC-10-A-202411



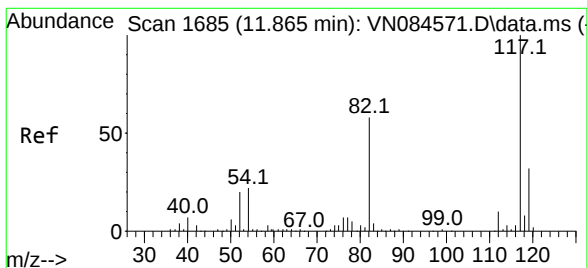
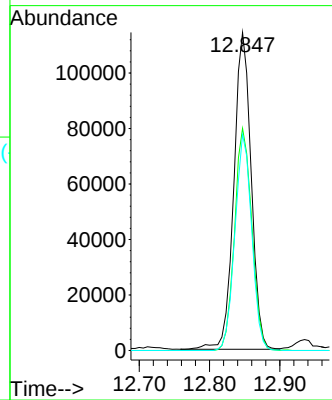
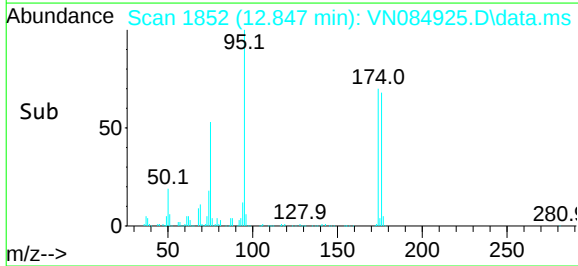
Tgt Ion: 95 Resp: 195083

Ion Ratio Lower Upper

95 100

174 70.1 0.0 145.2

176 66.1 0.0 140.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084925.D

Acq: 18 Nov 2024 17:16

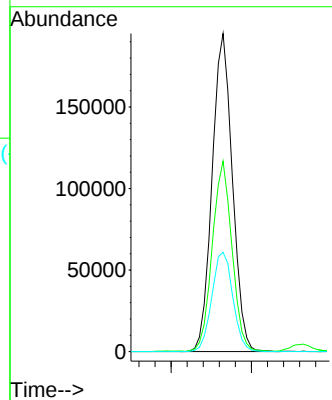
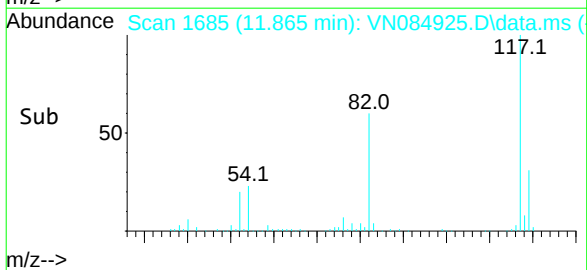
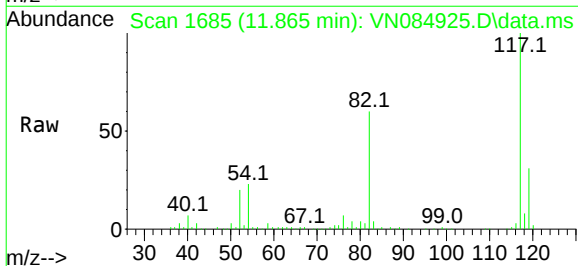
Tgt Ion: 117 Resp: 341618

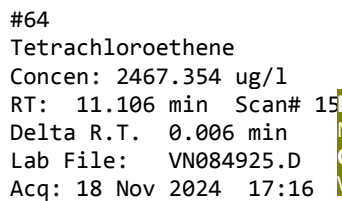
Ion Ratio Lower Upper

117 100

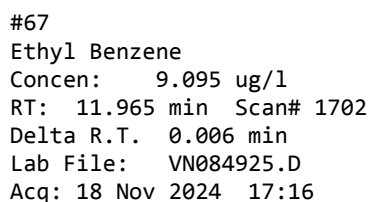
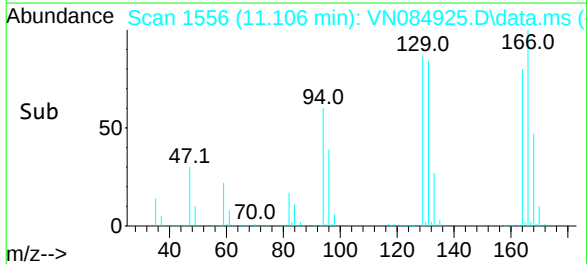
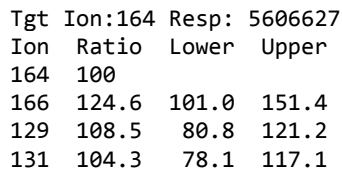
82 59.7 47.2 70.8

119 31.2 25.4 38.0

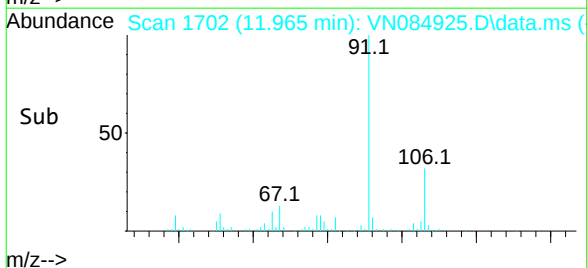
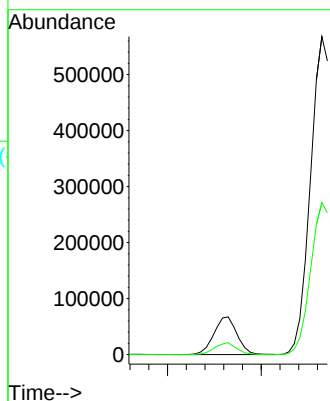


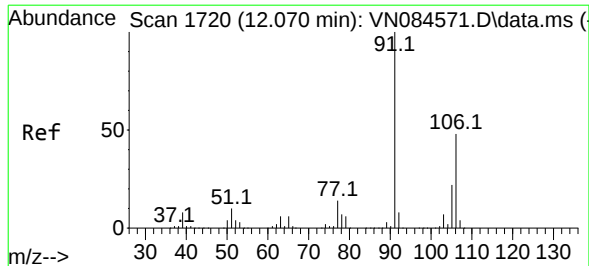


Instrument : MSVOA_N
ClientSampleId : WC-10-A-202411



Tgt Ion:	91	Resp:	116030
Ion Ratio	Lower	Upper	
91	100		
106	31.7	24.5	36.7





#68

m/p-Xylenes

Concen: 106.009 ug/l

RT: 12.065 min Scan# 17

Delta R.T. -0.006 min

Lab File: VN084925.D

Acq: 18 Nov 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :

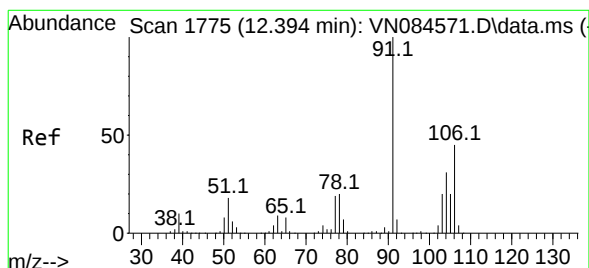
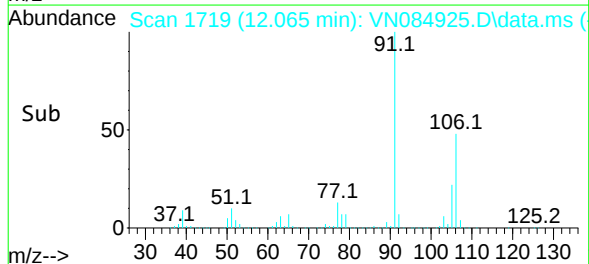
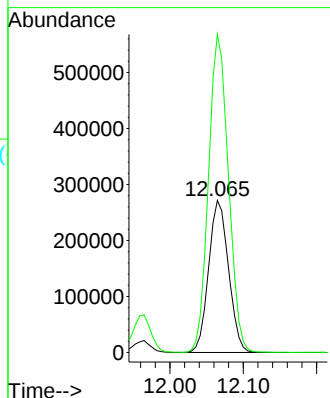
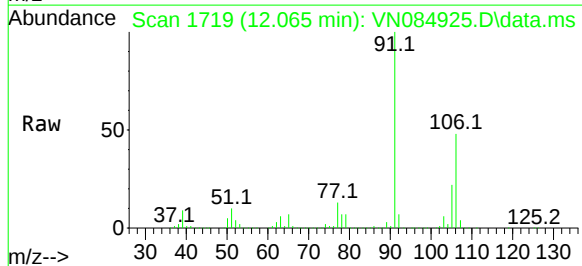
WC-10-A-202411

Tgt Ion:106 Resp: 511993

Ion Ratio Lower Upper

106 100

91 209.2 167.1 250.7



#69

o-Xylene

Concen: 51.882 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN084925.D

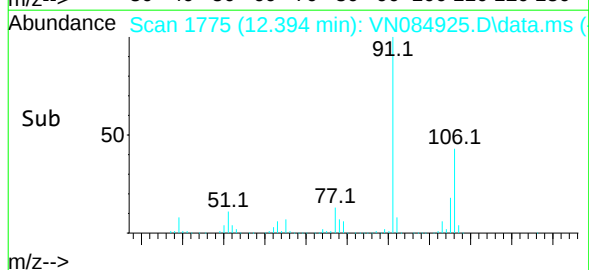
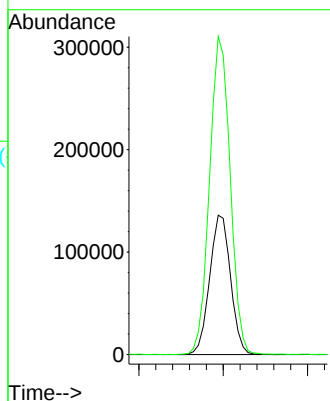
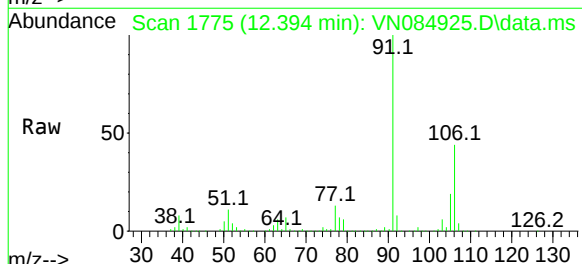
Acq: 18 Nov 2024 17:16

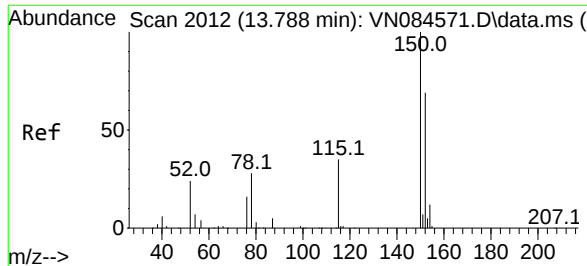
Tgt Ion:106 Resp: 234408

Ion Ratio Lower Upper

106 100

91 225.7 110.2 330.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN084925.D

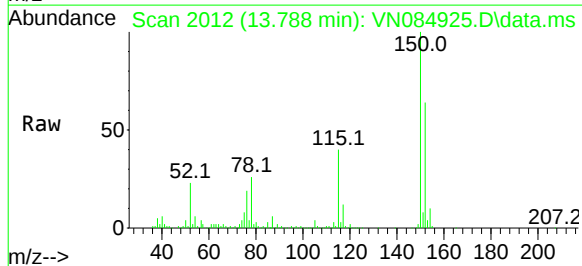
Acq: 18 Nov 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :

WC-10-A-202411



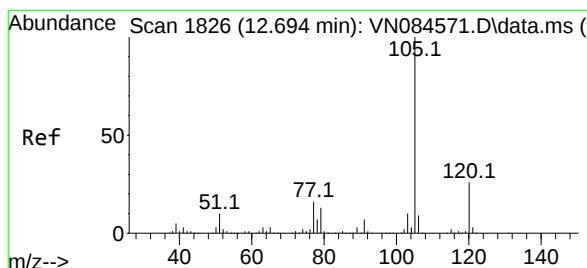
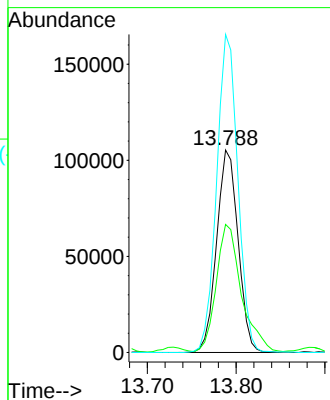
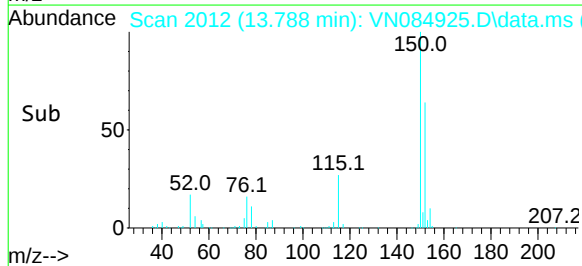
Tgt Ion:152 Resp: 177257

Ion Ratio Lower Upper

152 100

115 73.0 31.3 93.9

150 155.3 0.0 349.8



#73

Isopropylbenzene

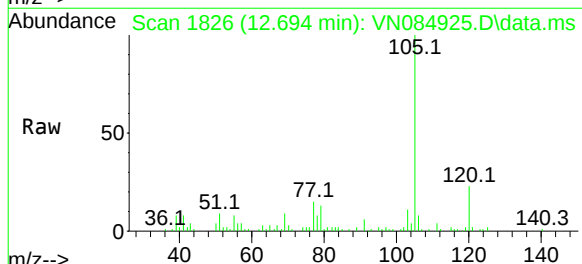
Concen: 4.097 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN084925.D

Acq: 18 Nov 2024 17:16

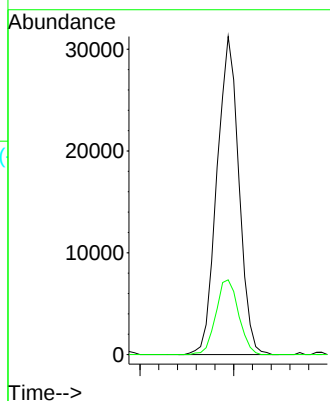
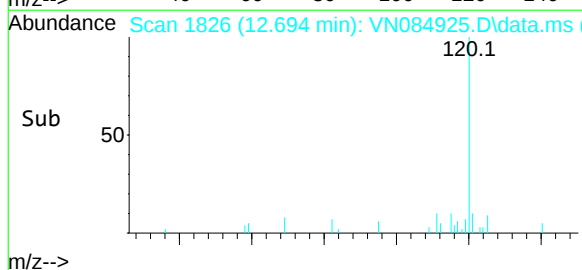


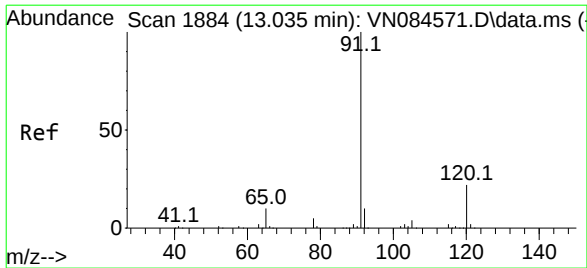
Tgt Ion:105 Resp: 50888

Ion Ratio Lower Upper

105 100

120 24.3 12.9 38.7





#78

n-propylbenzene

Concen: 7.217 ug/l

RT: 13.035 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN084925.D

Acq: 18 Nov 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :

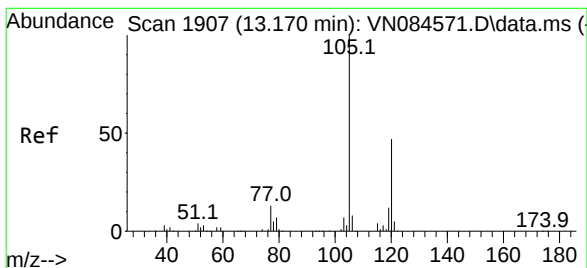
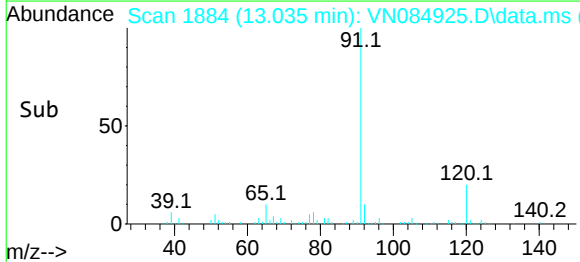
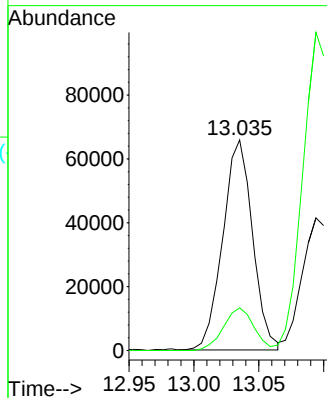
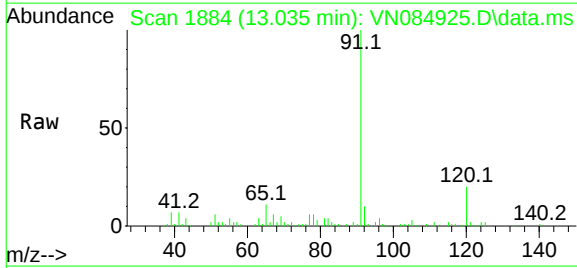
WC-10-A-202411

Tgt Ion: 91 Resp: 105055

Ion Ratio Lower Upper

91 100

120 20.7 10.8 32.4



#80

1,3,5-Trimethylbenzene

Concen: 35.922 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN084925.D

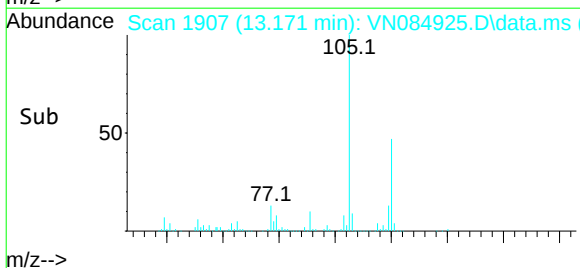
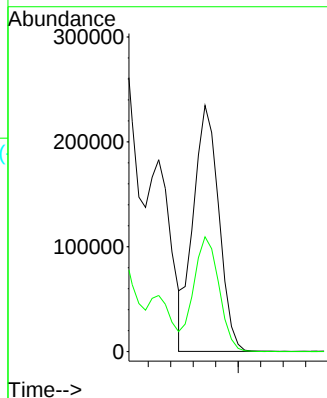
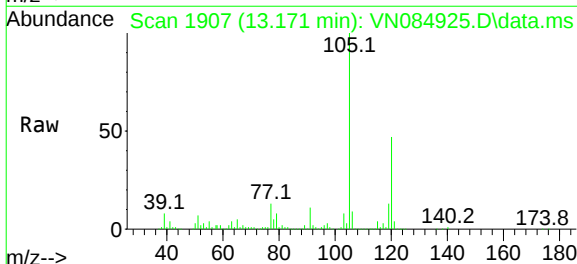
Acq: 18 Nov 2024 17:16

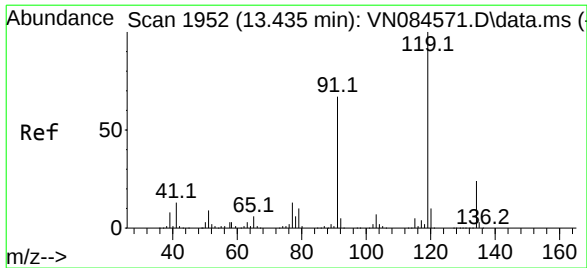
Tgt Ion: 105 Resp: 369828

Ion Ratio Lower Upper

105 100

120 46.7 23.7 71.1





#83

tert-Butylbenzene

Concen: 2.100 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN084925.D

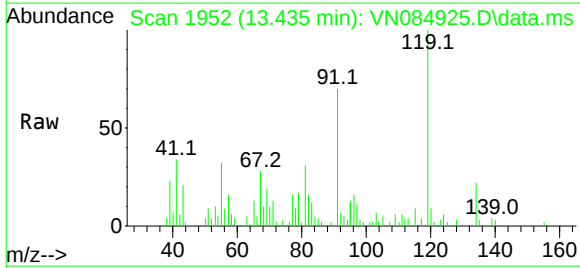
Acq: 18 Nov 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :

WC-10-A-202411



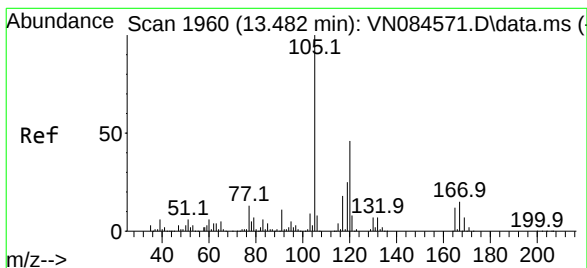
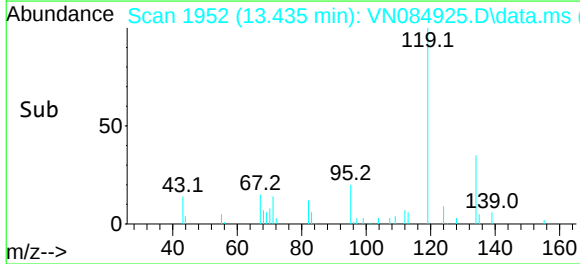
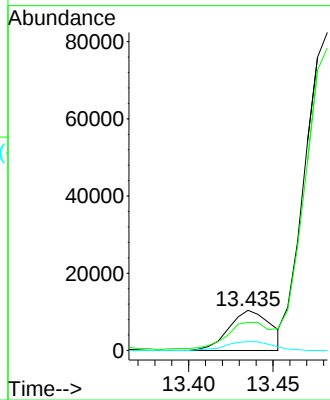
Tgt Ion:119 Resp: 17890

Ion Ratio Lower Upper

119 100

91 67.4 34.1 102.3

134 24.8 12.8 38.4



#84

1,2,4-Trimethylbenzene

Concen: 105.195 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN084925.D

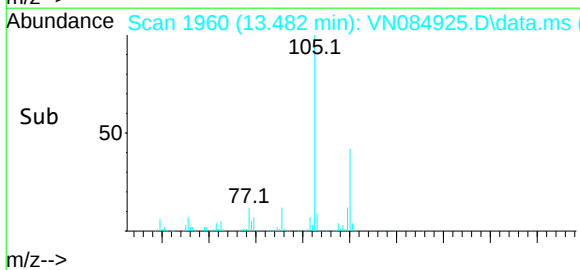
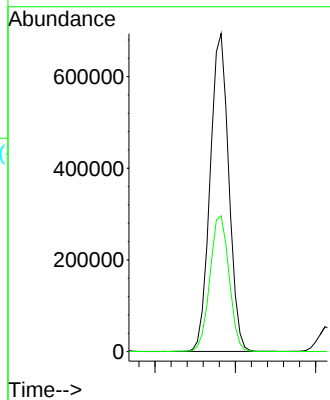
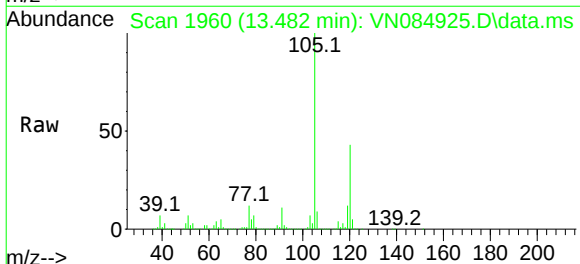
Acq: 18 Nov 2024 17:16

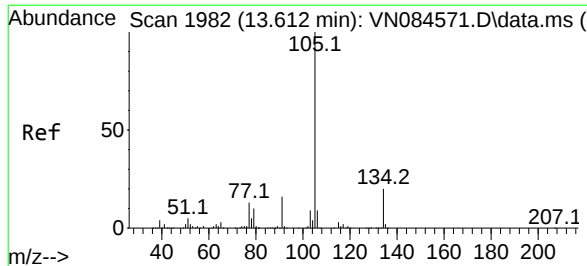
Tgt Ion:105 Resp: 1117778

Ion Ratio Lower Upper

105 100

120 44.0 22.3 66.8





#85

sec-Butylbenzene

Concen: 7.000 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.006 min

Lab File: VN084925.D

Acq: 18 Nov 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :

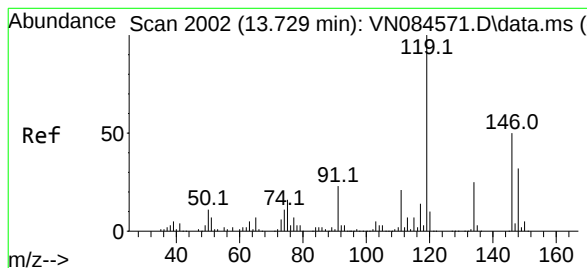
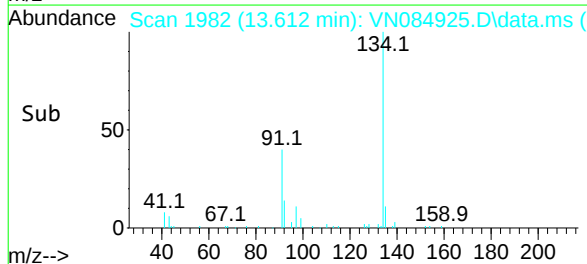
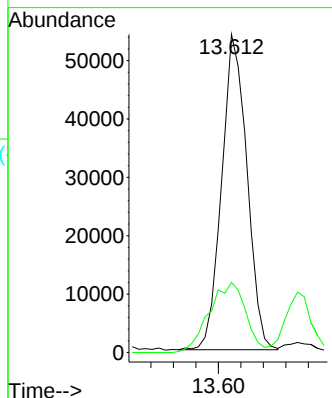
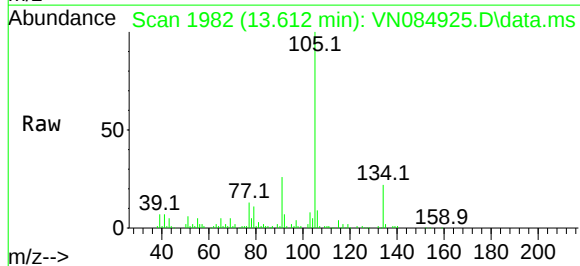
WC-10-A-202411

Tgt Ion:105 Resp: 84257

Ion Ratio Lower Upper

105 100

134 32.0 9.8 29.4#



#86

p-Isopropyltoluene

Concen: 5.402 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084925.D

Acq: 18 Nov 2024 17:16

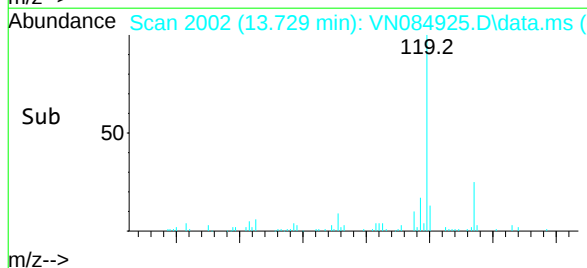
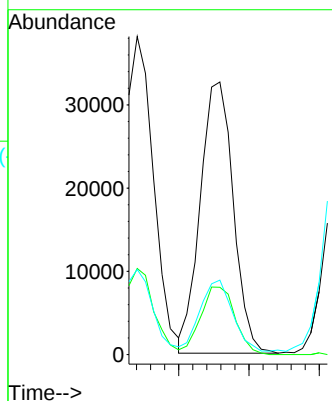
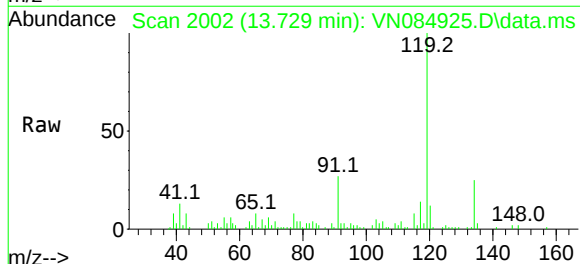
Tgt Ion:119 Resp: 53322

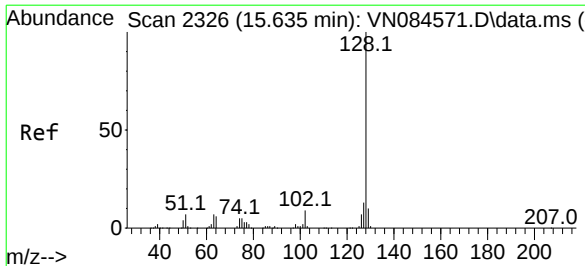
Ion Ratio Lower Upper

119 100

134 26.0 12.6 37.8

91 25.4 12.4 37.2

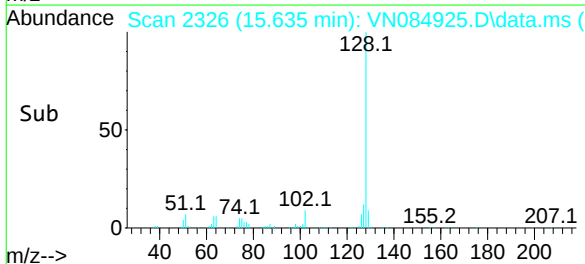
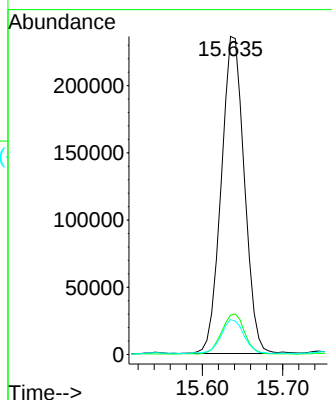
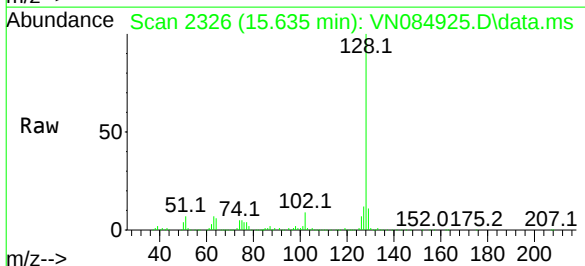




#95
Naphthalene
Concen: 45.877 ug/l
RT: 15.635 min Scan# 23
Delta R.T. 0.000 min
Lab File: VN084925.D
Acq: 18 Nov 2024 17:16

Instrument :
MSVOA_N
ClientSampleId :
WC-10-A-202411

Tgt Ion:128 Resp: 470689
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 10.5 8.7 13.1



Report of Analysis

Client:	AECOM	Date Collected:	11/13/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/14/24
Client Sample ID:	WC-10-A-202411DL	SDG No.:	P4871
Lab Sample ID:	P4871-01DL	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :	SW5035	Level :	LOW
		Final Vol:	5000
		Test:	TCLP VOA

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084949.D	100		11/19/24 16:04	VN111924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	34.0	UD	34.0	500	ug/L
75-35-4	1,1-Dichloroethene	26.0	UD	26.0	500	ug/L
78-93-3	2-Butanone	130	UD	130	2500	ug/L
56-23-5	Carbon Tetrachloride	25.0	UD	25.0	500	ug/L
67-66-3	Chloroform	26.0	UD	26.0	500	ug/L
71-43-2	Benzene	16.0	UD	16.0	500	ug/L
107-06-2	1,2-Dichloroethane	24.0	UD	24.0	500	ug/L
79-01-6	Trichloroethene	220	JD	32.0	500	ug/L
127-18-4	Tetrachloroethene	2500	D	25.0	500	ug/L
108-90-7	Chlorobenzene	13.0	UD	13.0	500	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.1		74 - 125	104%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	45.9		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		77 - 121	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	165000	8.218			
540-36-3	1,4-Difluorobenzene	309000	9.1			
3114-55-4	Chlorobenzene-d5	269000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	122000	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\VN111924\
 Data File : VN084949.D
 Acq On : 19 Nov 2024 16:04
 Operator : JC\MD
 Sample : P4871-01DL 100X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-10-A-202411DL

Quant Time: Nov 19 18:32:23 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)

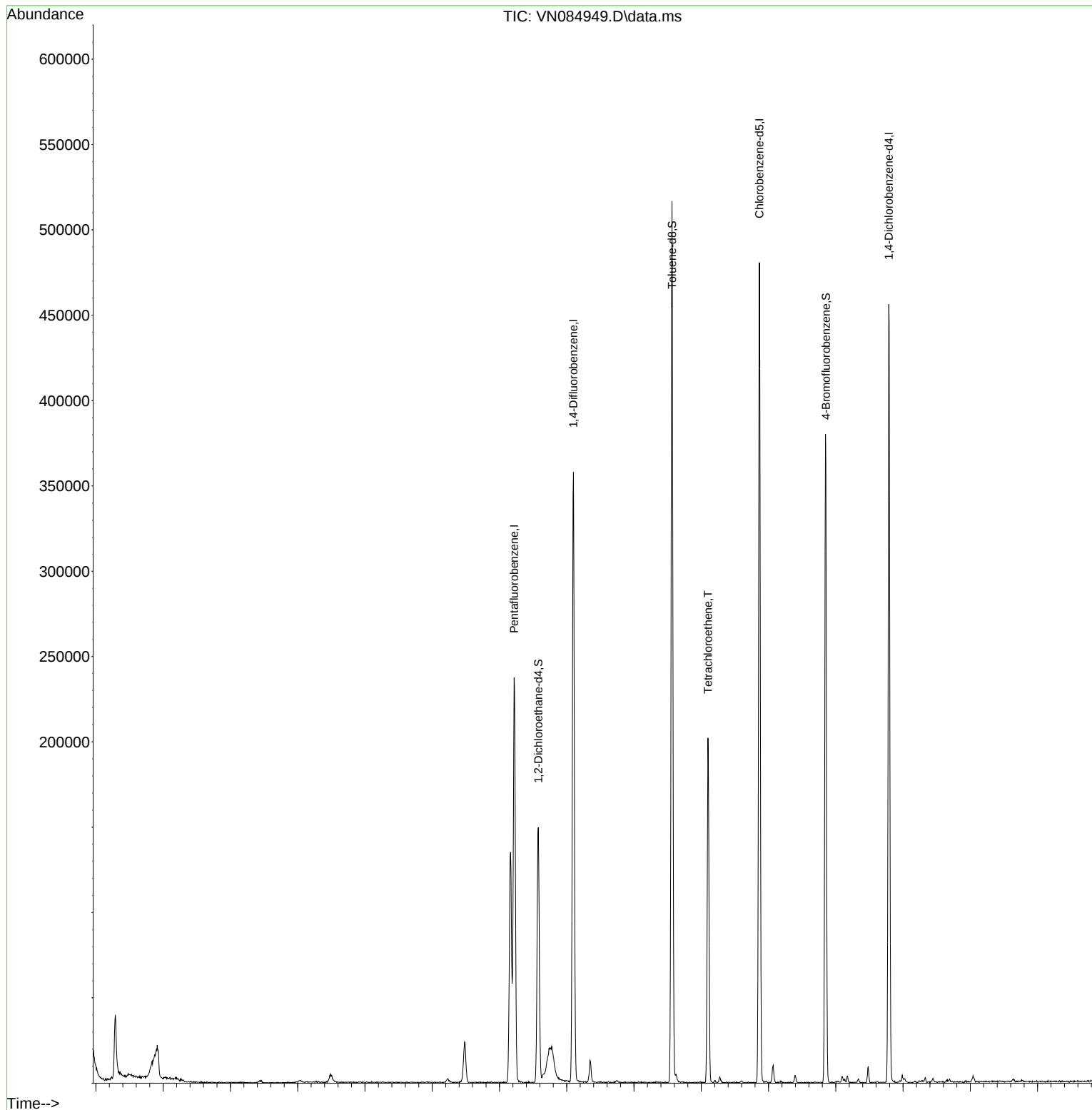
Internal Standards						
1) Pentafluorobenzene	8.218	168	165251	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	308690	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	269378	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122161	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	124265	52.064	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.120%			
35) Dibromofluoromethane	8.165	113	98626	47.202	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.400%			
50) Toluene-d8	10.565	98	353588	45.939	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.880%			
62) 4-Bromofluorobenzene	12.853	95	137811	47.908	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.820%			
Target Compounds						
27) cis-1,2-Dichloroethene	7.477	96	13745	6.092	ug/l	88
44) Trichloroethene	9.359	130	4725	2.202	ug/l	89
52) Toluene	10.635	92	1326	0.244	ug/l #	69
64) Tetrachloroethene	11.100	164	44911	25.065	ug/l	96
68) m/p-Xylenes	12.065	106	3297	0.866	ug/l	98
69) o-Xylene	12.400	106	1536	0.431	ug/l	96
80) 1,3,5-Trimethylbenzene	13.170	105	2030	0.286	ug/l	95
84) 1,2,4-Trimethylbenzene	13.482	105	5373	0.734	ug/l	99

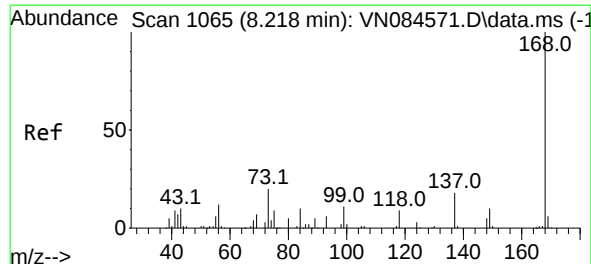
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
Data File : VN084949.D
Acq On : 19 Nov 2024 16:04
Operator : JC\MD
Sample : P4871-01DL 100X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-10-A-202411DL

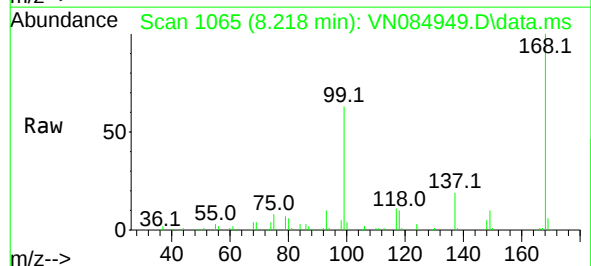
Quant Time: Nov 19 18:32:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



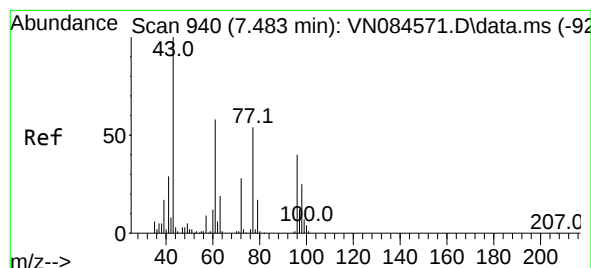
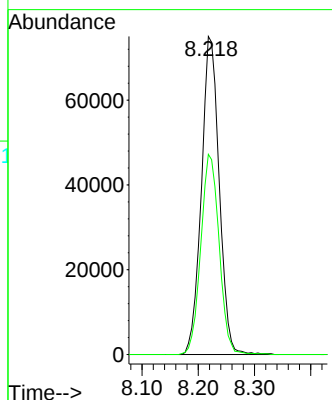
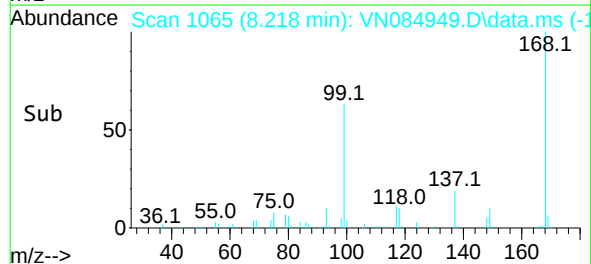


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084949.D
Acq: 19 Nov 2024 16:04

Instrument :
MSVOA_N
ClientSampleId :
WC-10-A-202411DL

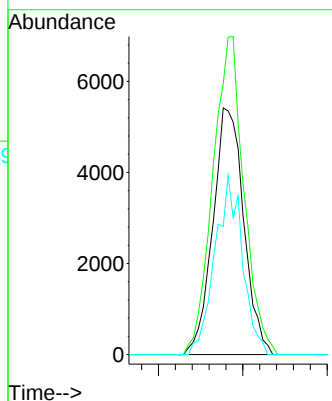
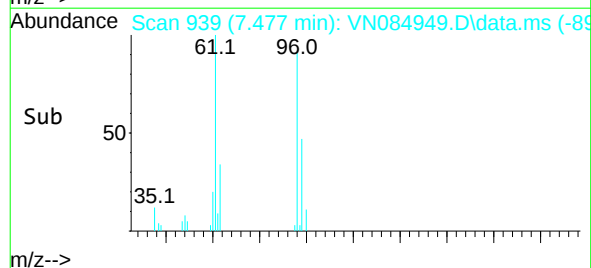
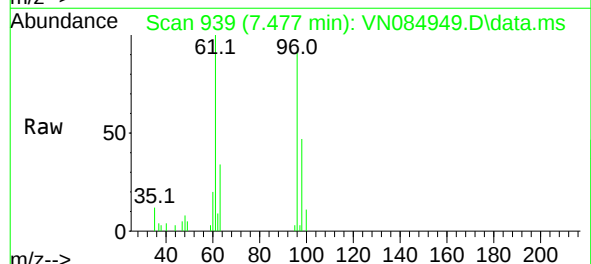


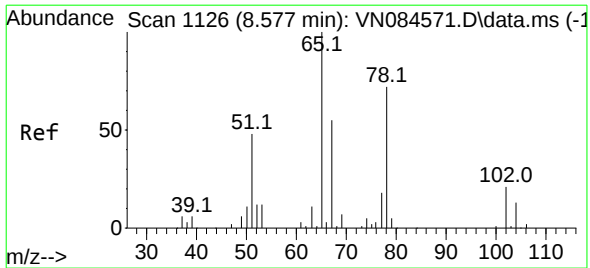
Tgt Ion:168 Resp: 165251
Ion Ratio Lower Upper
168 100
99 62.9 54.2 81.2



#27
cis-1,2-Dichloroethene
Concen: 6.092 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.012 min
Lab File: VN084949.D
Acq: 19 Nov 2024 16:04

Tgt Ion: 96 Resp: 13745
Ion Ratio Lower Upper
96 100
61 129.9 0.0 301.8
98 64.5 0.0 128.2

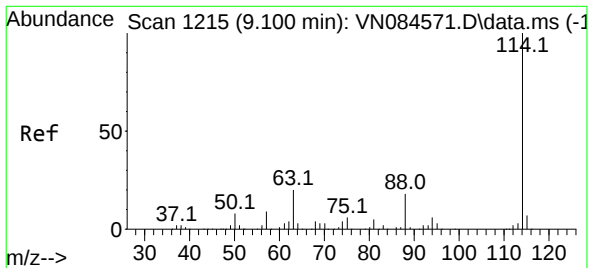
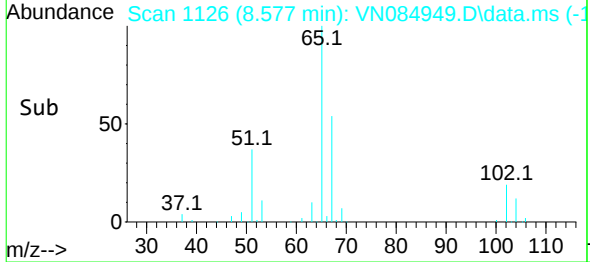
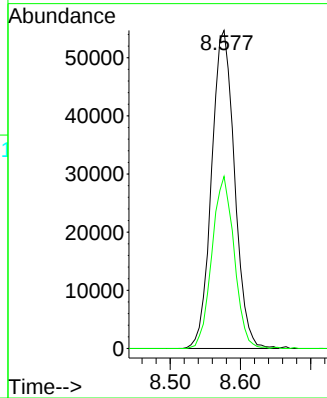
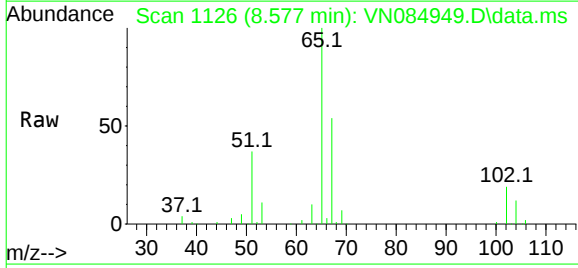




#33
1,2-Dichloroethane-d4
Concen: 52.064 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084949.D
Acq: 19 Nov 2024 16:04

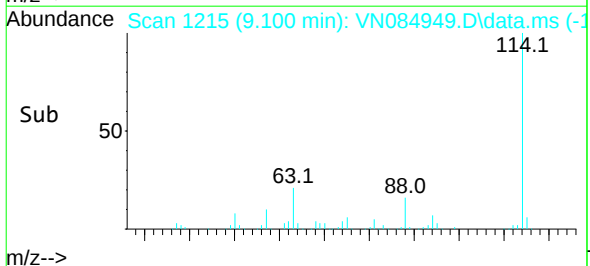
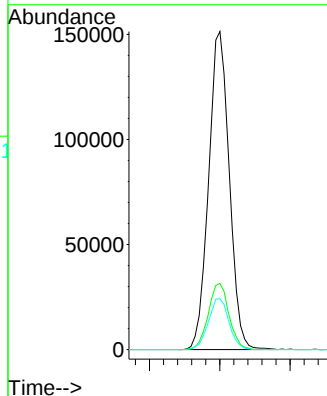
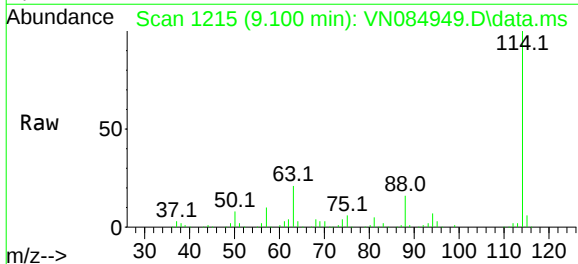
Instrument :
MSVOA_N
ClientSampleId :
WC-10-A-202411DL

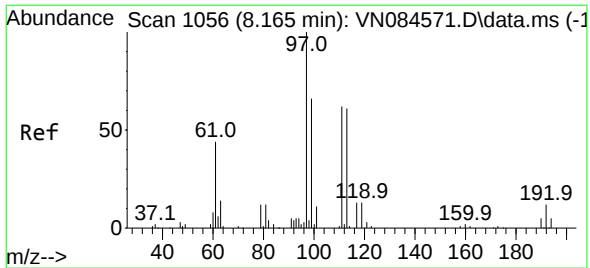
Tgt Ion: 65 Resp: 124265
Ion Ratio Lower Upper
65 100
67 52.3 0.0 102.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084949.D
Acq: 19 Nov 2024 16:04

Tgt Ion: 114 Resp: 308690
Ion Ratio Lower Upper
114 100
63 20.8 0.0 43.8
88 16.0 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.202 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084949.D

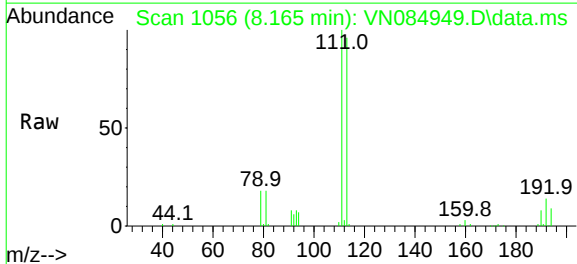
Acq: 19 Nov 2024 16:04

Instrument :

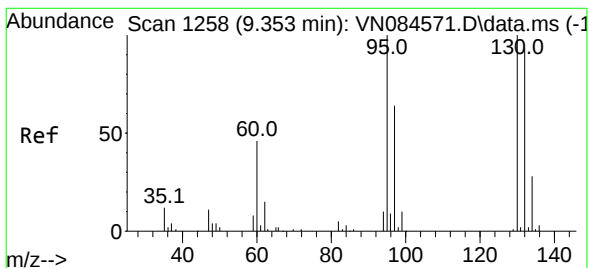
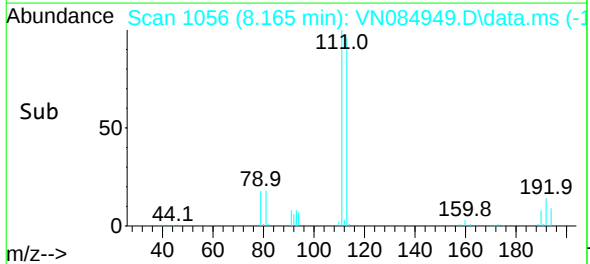
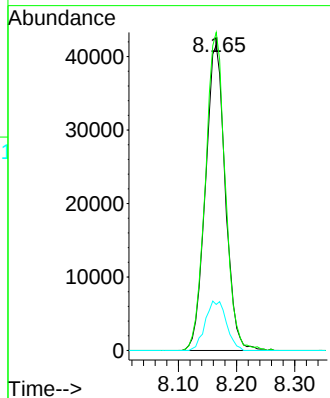
MSVOA_N

ClientSampleId :

WC-10-A-202411DL



Tgt Ion:	113	Resp:	98626
Ion	Ratio	Lower	Upper
113	100		
111	104.0	83.3	124.9
192	17.2	13.5	20.3



#44

Trichloroethene

Concen: 2.202 ug/l

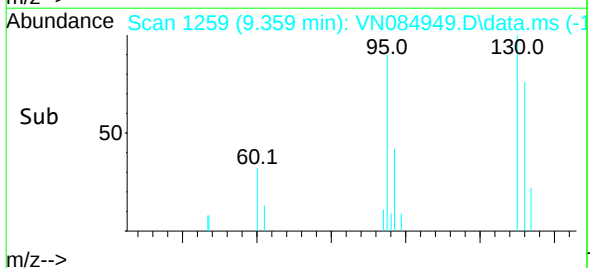
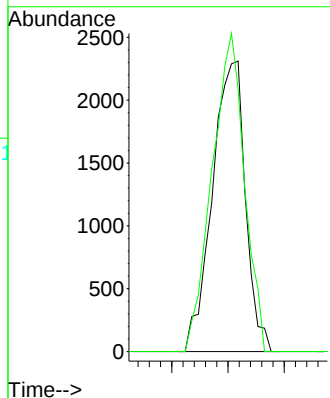
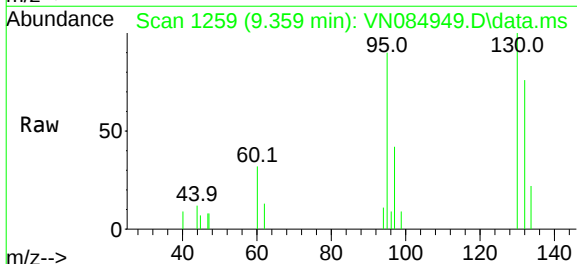
RT: 9.359 min Scan# 1259

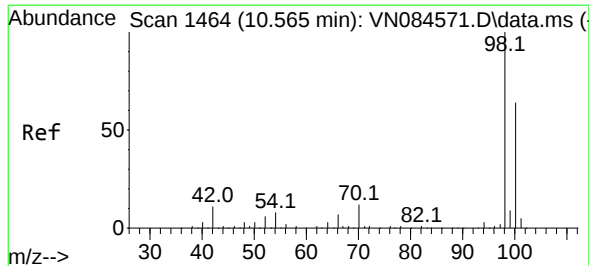
Delta R.T. 0.012 min

Lab File: VN084949.D

Acq: 19 Nov 2024 16:04

Tgt Ion:	130	Resp:	4725
Ion	Ratio	Lower	Upper
130	100		
95	90.5	0.0	203.0





#50

Toluene-d8

Concen: 45.939 ug/l

RT: 10.565 min Scan# 14

Delta R.T. -0.000 min

Lab File: VN084949.D

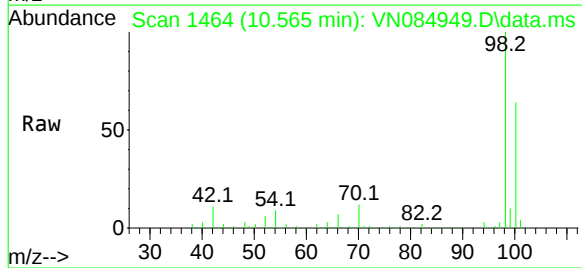
Acq: 19 Nov 2024 16:04

Instrument :

MSVOA_N

ClientSampleId :

WC-10-A-202411DL

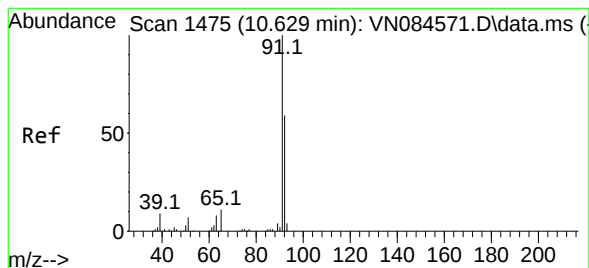
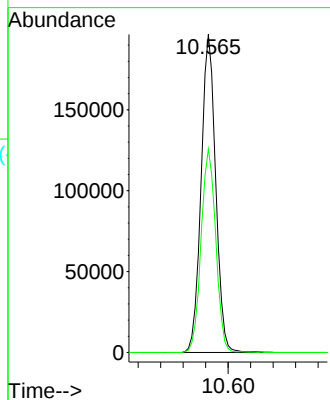
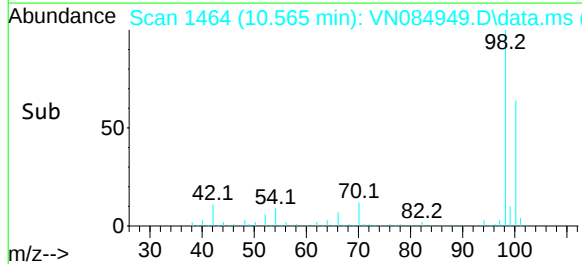


Tgt Ion: 98 Resp: 353588

Ion Ratio Lower Upper

98 100

100 64.4 52.7 79.1



#52

Toluene

Concen: 0.244 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.006 min

Lab File: VN084949.D

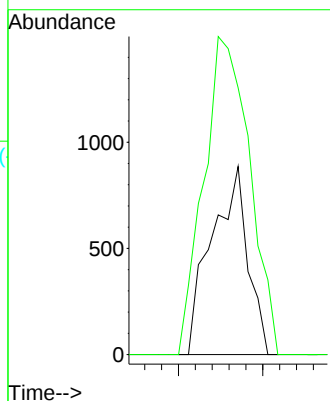
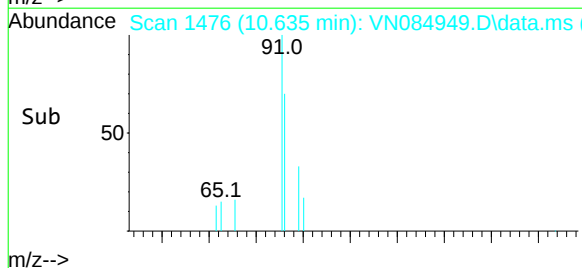
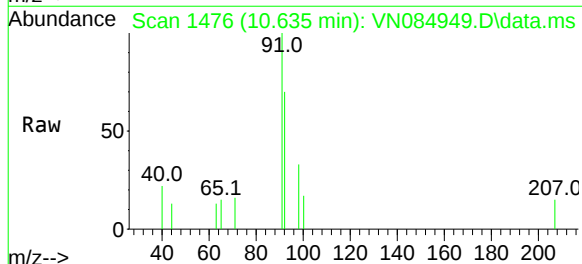
Acq: 19 Nov 2024 16:04

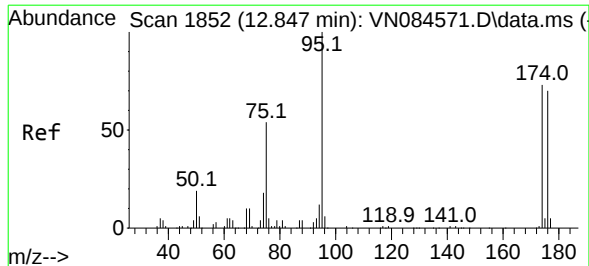
Tgt Ion: 92 Resp: 1326

Ion Ratio Lower Upper

92 100

91 213.7 137.3 205.9#





#62

4-Bromofluorobenzene

Concen: 47.908 ug/l

RT: 12.853 min Scan# 18

Delta R.T. 0.006 min

Lab File: VN084949.D

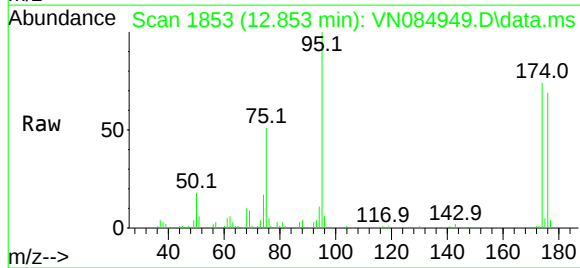
Acq: 19 Nov 2024 16:04

Instrument :

MSVOA_N

ClientSampleId :

WC-10-A-202411DL



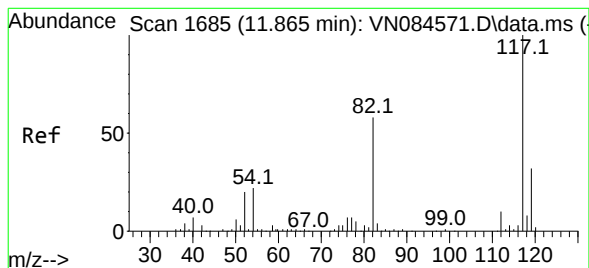
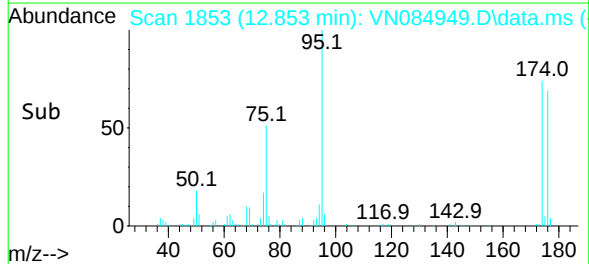
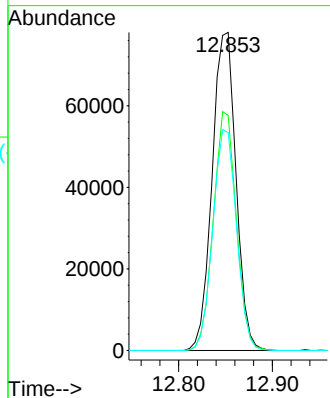
Tgt Ion: 95 Resp: 137811

Ion Ratio Lower Upper

95 100

174 72.5 0.0 145.2

176 68.9 0.0 140.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084949.D

Acq: 19 Nov 2024 16:04

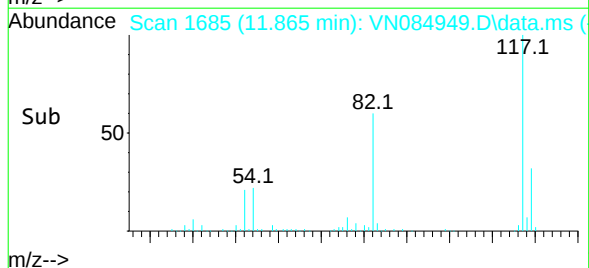
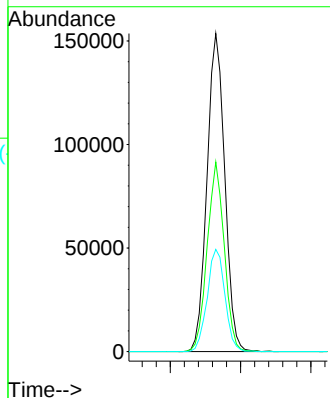
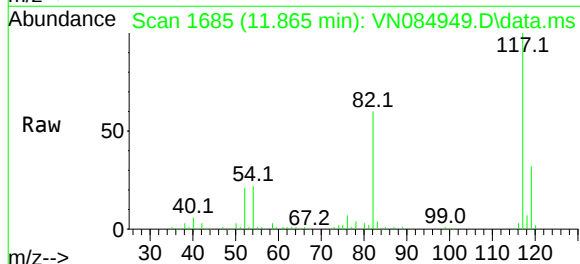
Tgt Ion: 117 Resp: 269378

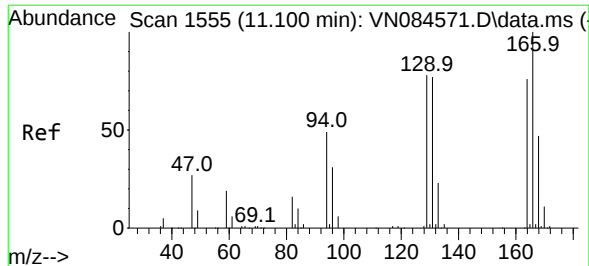
Ion Ratio Lower Upper

117 100

82 59.6 47.2 70.8

119 32.1 25.4 38.0





#64

Tetrachloroethene

Concen: 25.065 ug/l

RT: 11.100 min Scan# 15

Delta R.T. 0.000 min

Lab File: VN084949.D

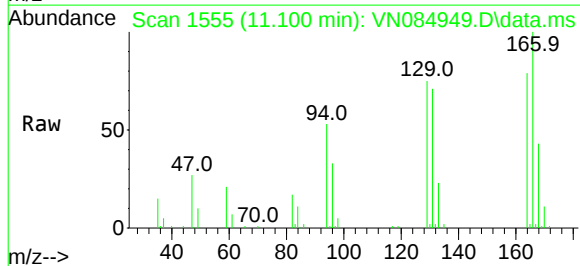
Acq: 19 Nov 2024 16:04

Instrument :

MSVOA_N

ClientSampleId :

WC-10-A-202411DL



Tgt Ion:164 Resp: 44911

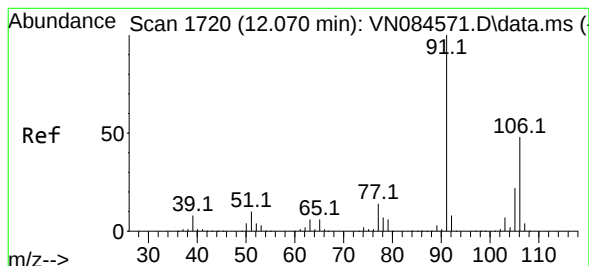
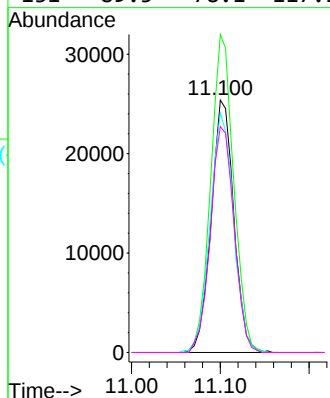
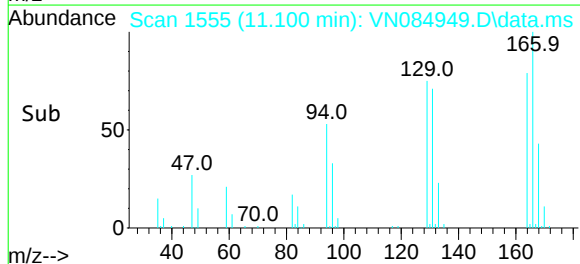
Ion Ratio Lower Upper

164 100

166 126.0 101.0 151.4

129 94.8 80.8 121.2

131 89.5 78.1 117.1



#68

m/p-Xylenes

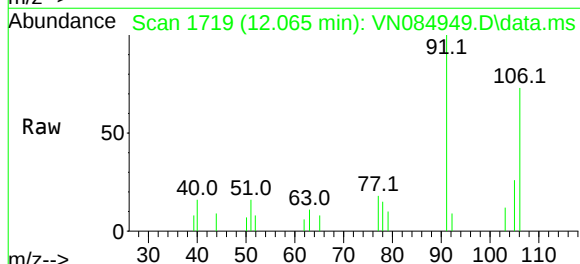
Concen: 0.866 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.006 min

Lab File: VN084949.D

Acq: 19 Nov 2024 16:04

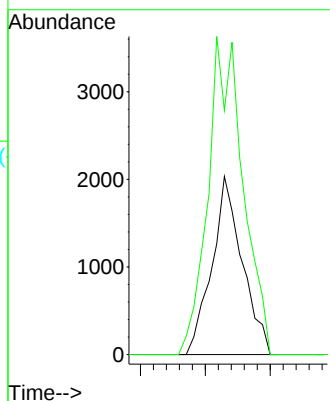
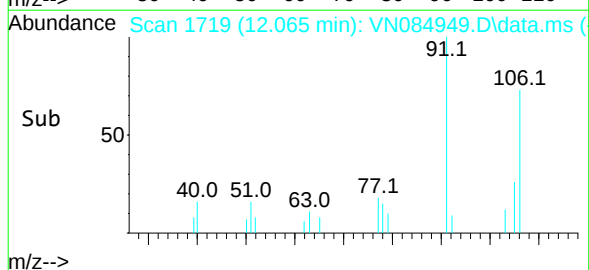


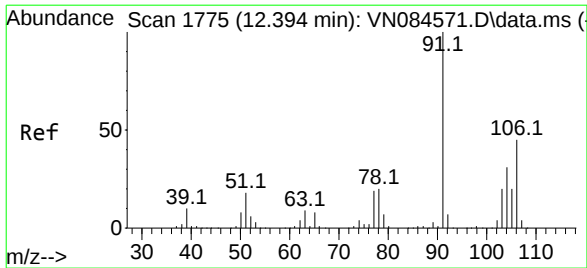
Tgt Ion:106 Resp: 3297

Ion Ratio Lower Upper

106 100

91 206.1 167.1 250.7





#69

o-Xylene

Concen: 0.431 ug/l

RT: 12.400 min Scan# 17

Delta R.T. 0.006 min

Lab File: VN084949.D

Acq: 19 Nov 2024 16:04

Instrument :

MSVOA_N

ClientSampleId :

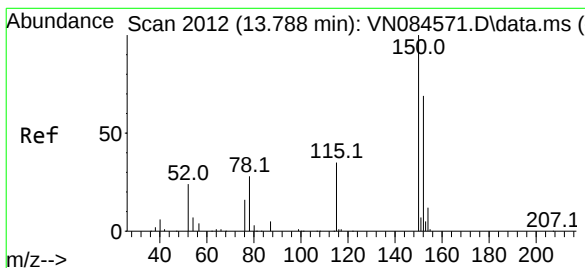
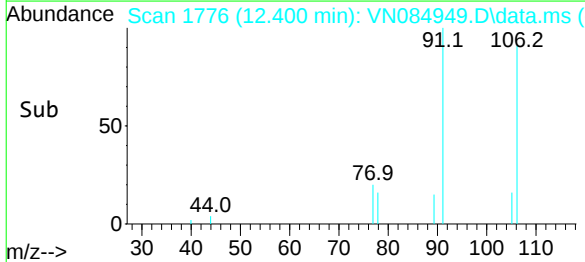
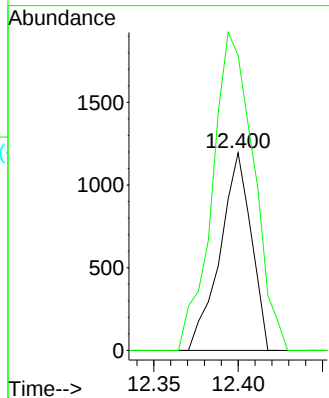
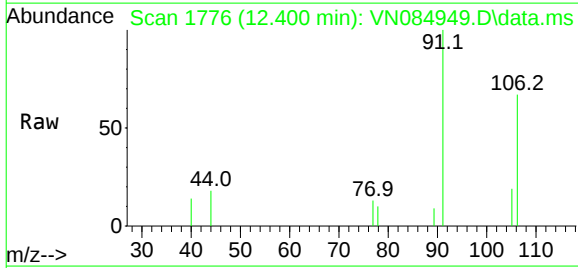
WC-10-A-202411DL

Tgt Ion:106 Resp: 1536

Ion Ratio Lower Upper

106 100

91 213.7 110.2 330.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN084949.D

Acq: 19 Nov 2024 16:04

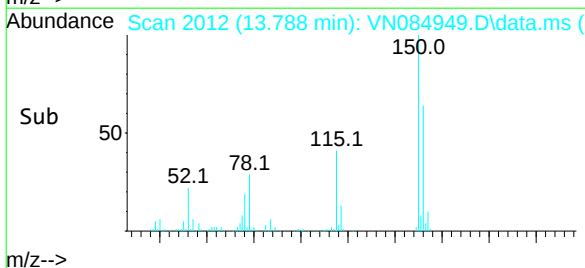
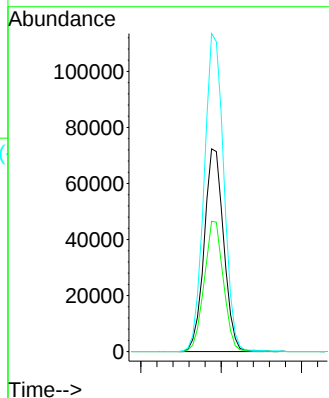
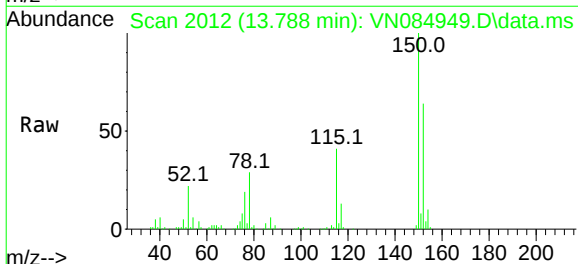
Tgt Ion:152 Resp: 122161

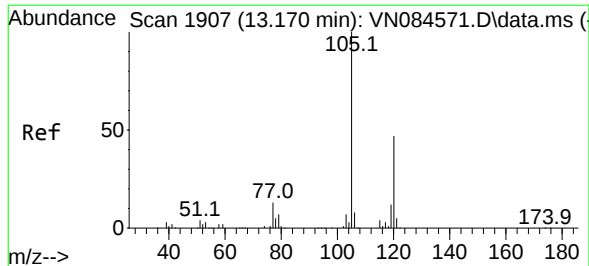
Ion Ratio Lower Upper

152 100

115 62.9 31.3 93.9

150 157.8 0.0 349.8





#80

1,3,5-Trimethylbenzene

Concen: 0.286 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN084949.D

Acq: 19 Nov 2024 16:04

Instrument :

MSVOA_N

ClientSampleId :

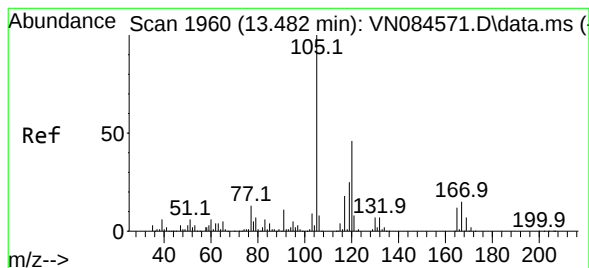
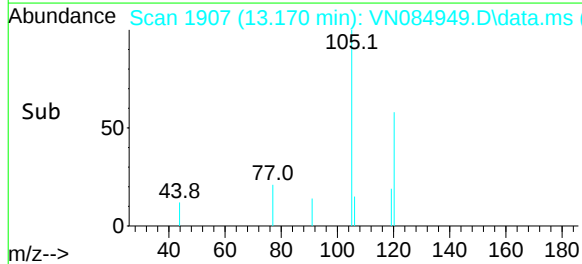
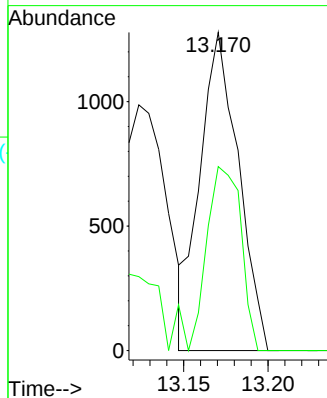
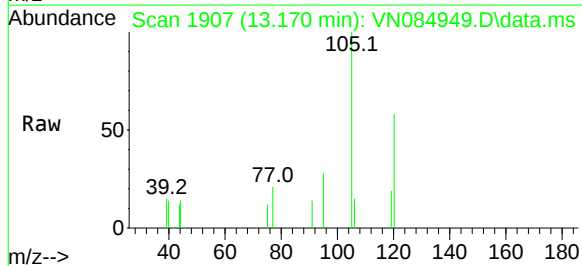
WC-10-A-202411DL

Tgt Ion:105 Resp: 2030

Ion Ratio Lower Upper

105 100

120 50.8 23.7 71.1



#84

1,2,4-Trimethylbenzene

Concen: 0.734 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN084949.D

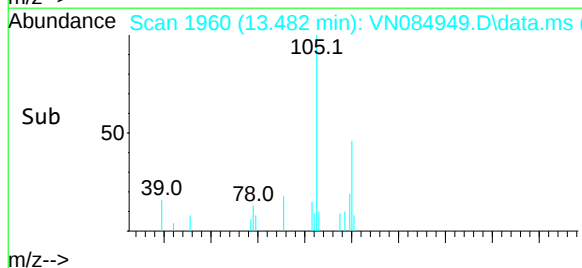
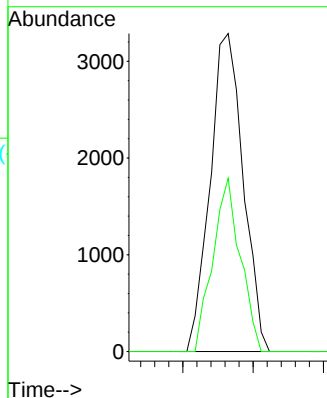
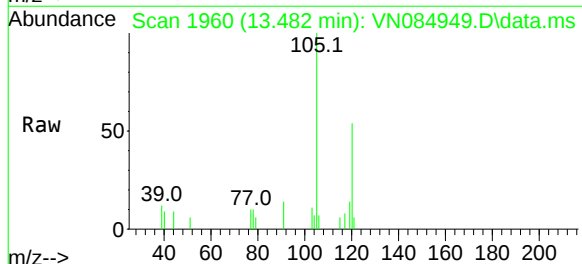
Acq: 19 Nov 2024 16:04

Tgt Ion:105 Resp: 5373

Ion Ratio Lower Upper

105 100

120 45.2 22.3 66.8





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: AECO02
 Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG No.: P4871
 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	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.

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	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	0.769	5.08
11) T	Tert butyl alc...	0.118	0.100	0.090	0.086	0.082	0.095	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	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	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	0.722	4.20

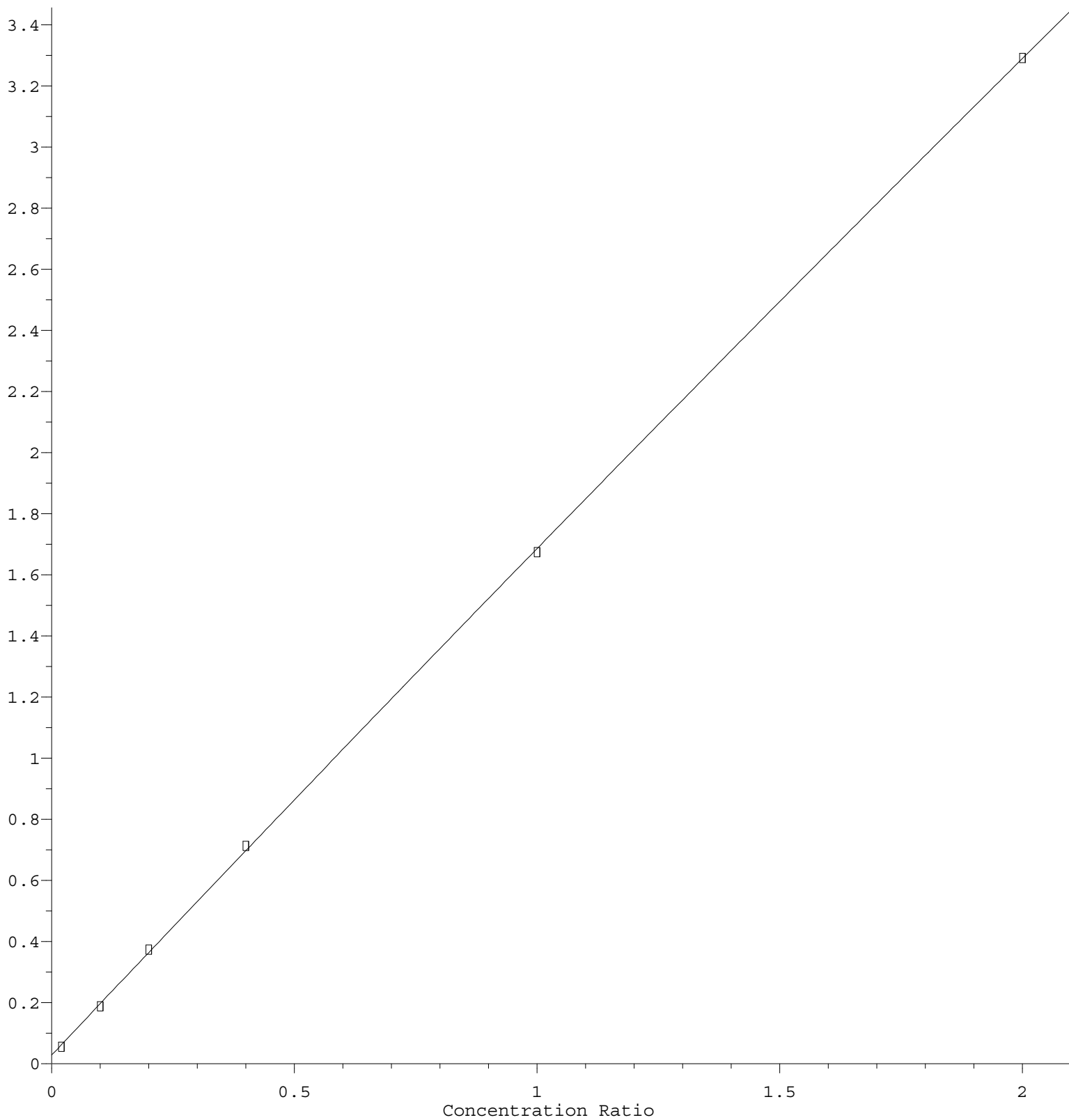
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.353	0.336	0.326	0.344	0.334	0.338	0.338	3.07
36) T	1,1-Dichloropr...	0.474	0.477	0.468	0.471	0.451	0.476	0.469	2.02
37) T	Ethyl Acetate	0.410	0.466	0.404	0.429	0.422	0.424	0.426	5.14
38) T	Carbon Tetrach...	0.488	0.537	0.548	0.532	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	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
-----ISTD-----										
63)	I	Chlorobenzene-d5								
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
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
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

1,4-Dichlorobenzene

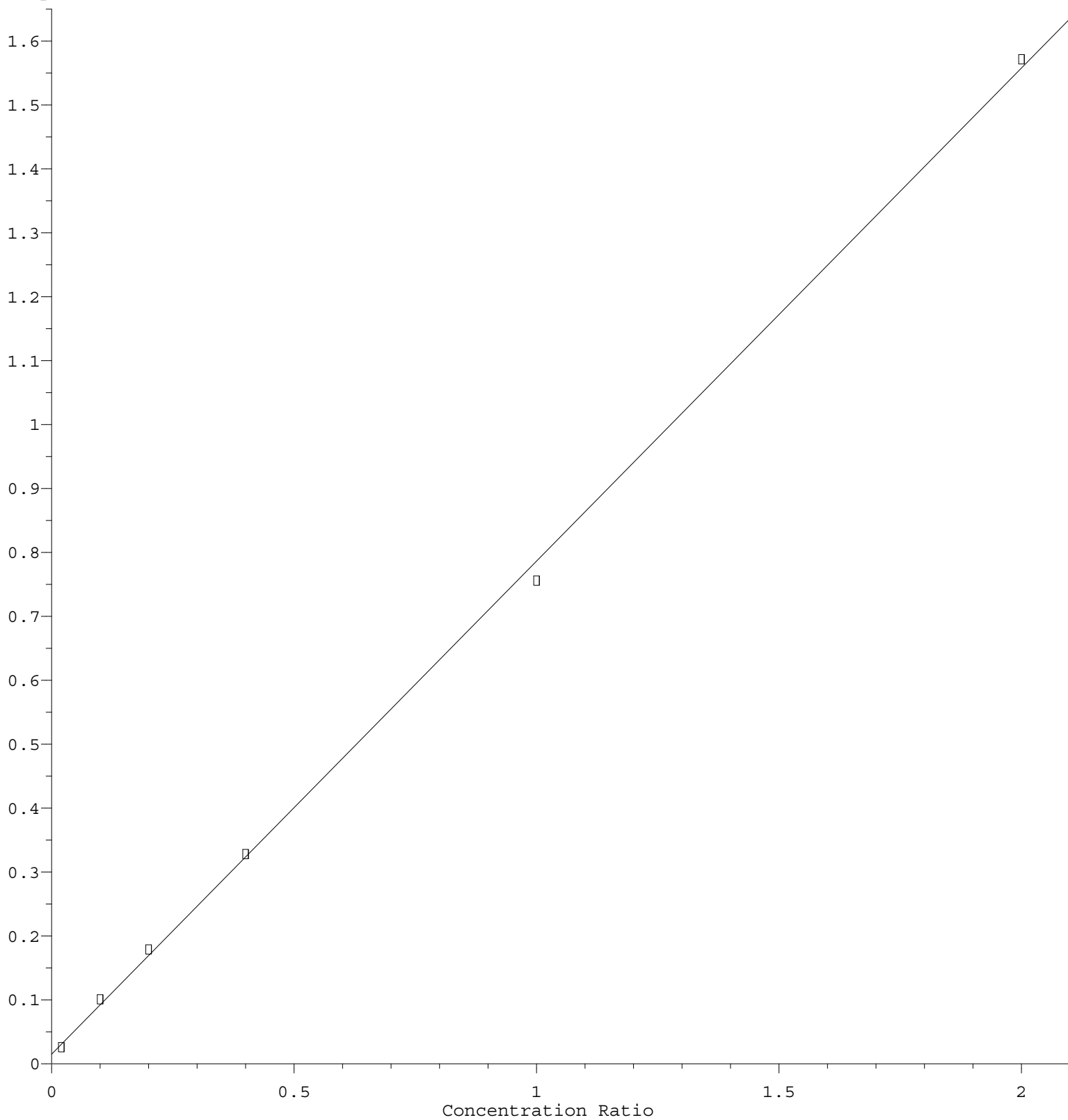
Response Ratio



$R = -2.647e-002 A^2 + 1.683e+000 A + 2.851e-002$
 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

Isopropyl Acetate

Response Ratio



$$\text{Response} = 7.716\text{e-}001 * \text{Amt} + 1.519\text{e-}002$$

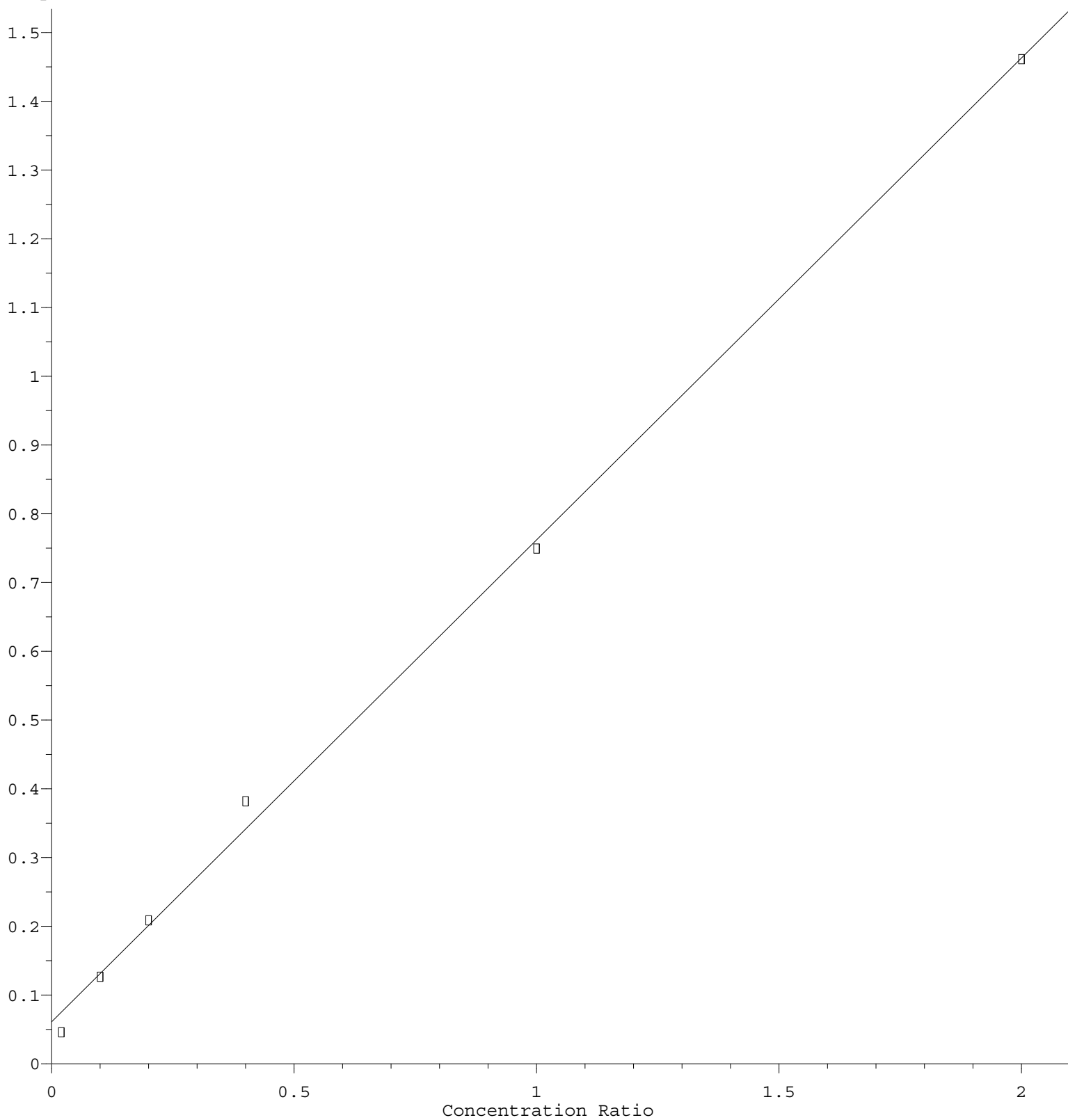
Coef of Det (r^2) = 0.999234 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M

Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Methyl Acetate

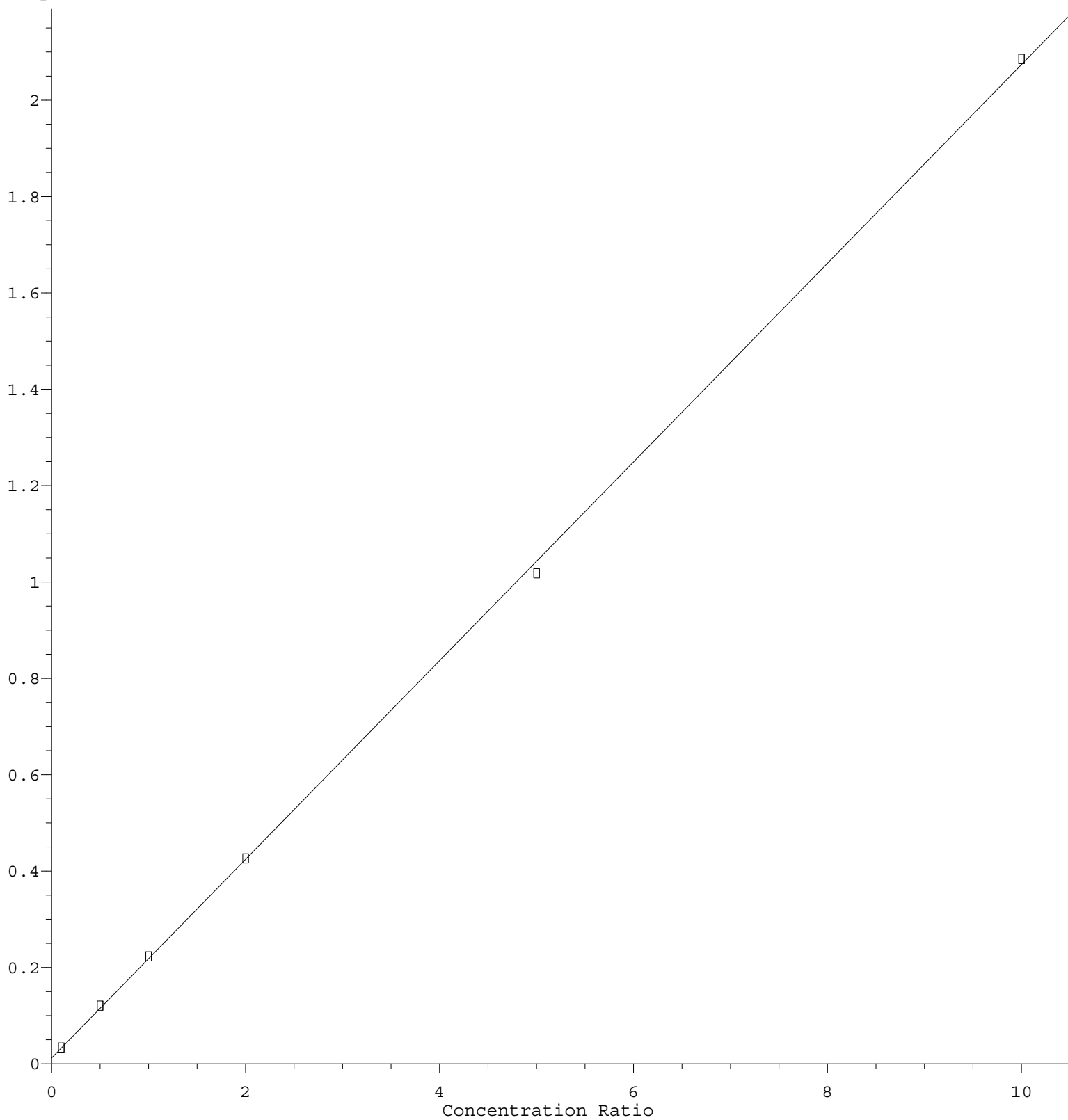
Response Ratio



Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Acetone

Response Ratio



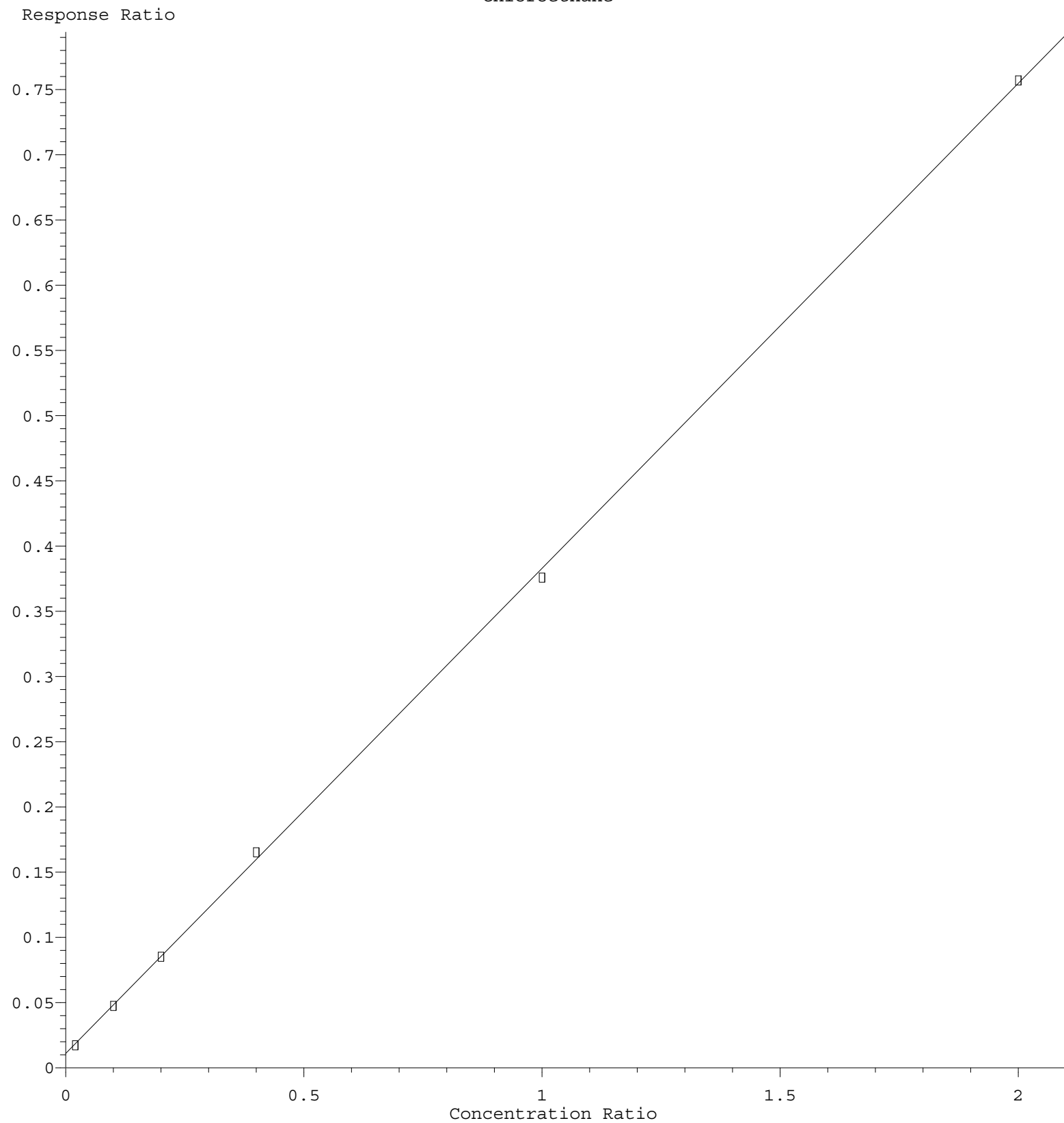
$$\text{Response} = 2.062\text{e-}001 * \text{Amt} + 1.190\text{e-}002$$

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

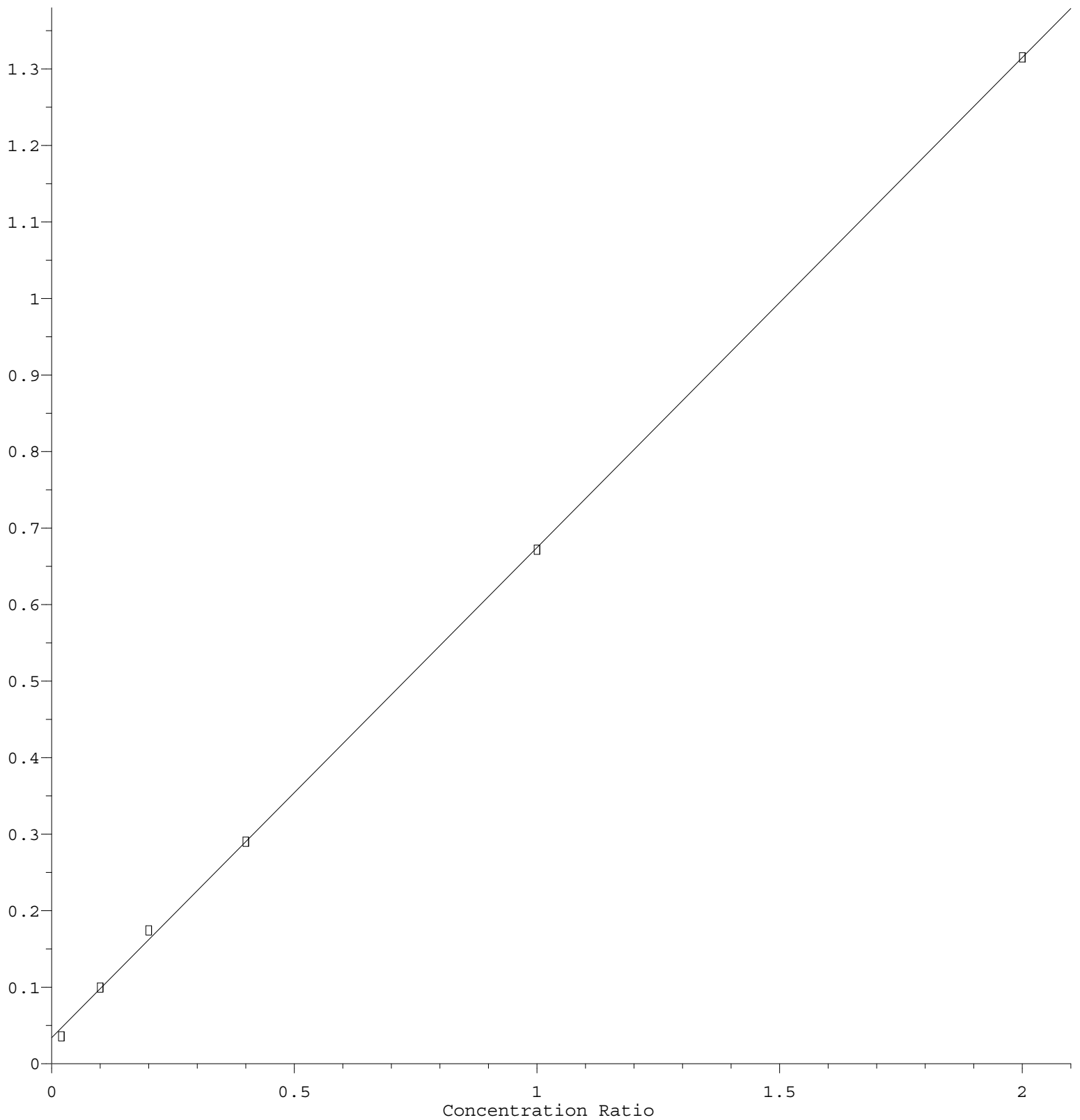
Chloroethane



Response = $3.720 \times 10^{-1} \times \text{Amt} + 1.067 \times 10^{-2}$
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

Chloromethane

Response Ratio



$$\text{Response} = 6.405\text{e-}001 * \text{Amt} + 3.399\text{e-}002$$

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

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)

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

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)
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

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

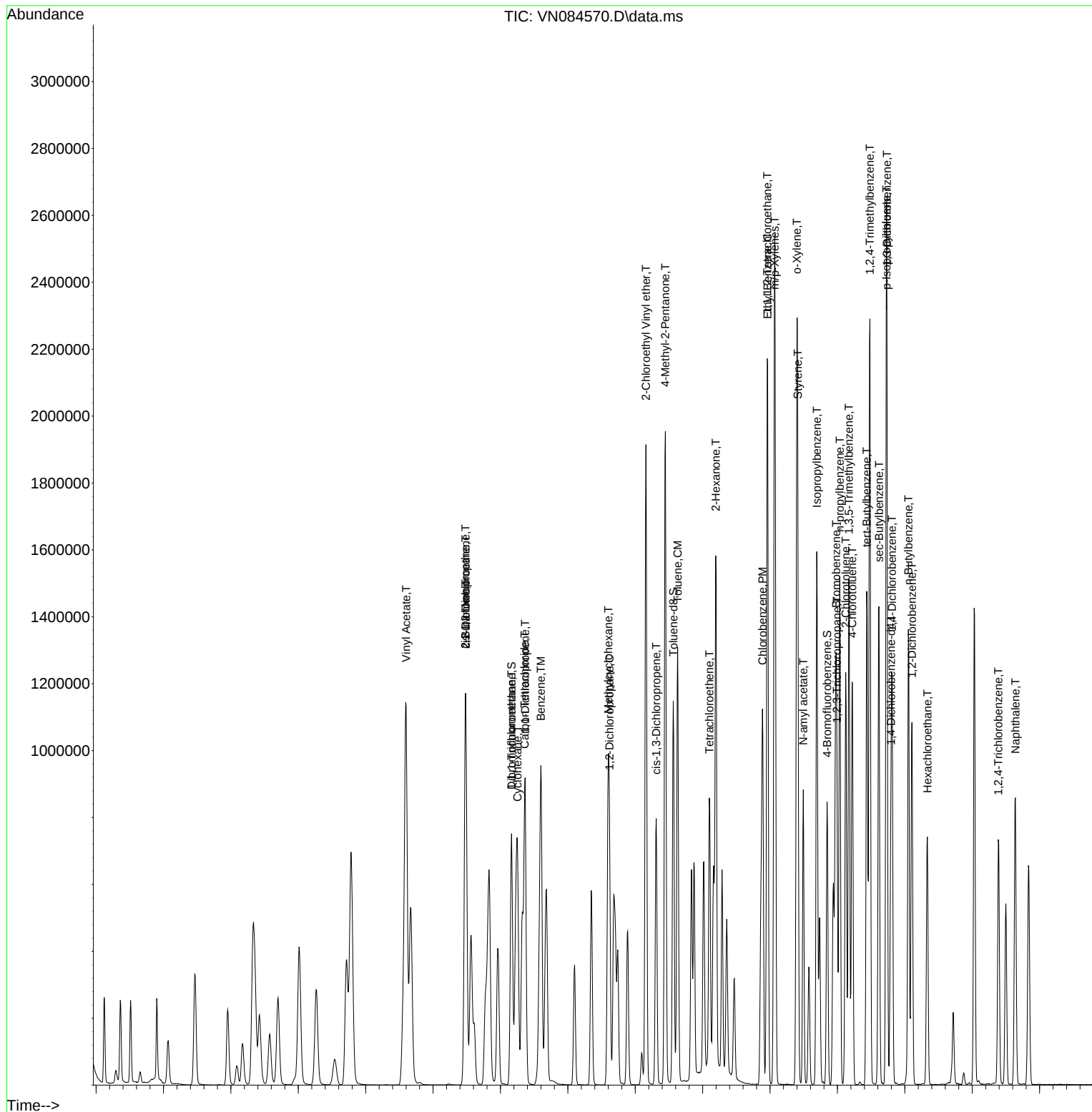
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\  
Data File : VN084570.D  
Acq On    : 30 Oct 2024  11:46  
Operator  : JC\MD  
Sample    : VSTDICC100  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 1      Sample Multiplier: 1
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Instrument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



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

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

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

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)
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

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

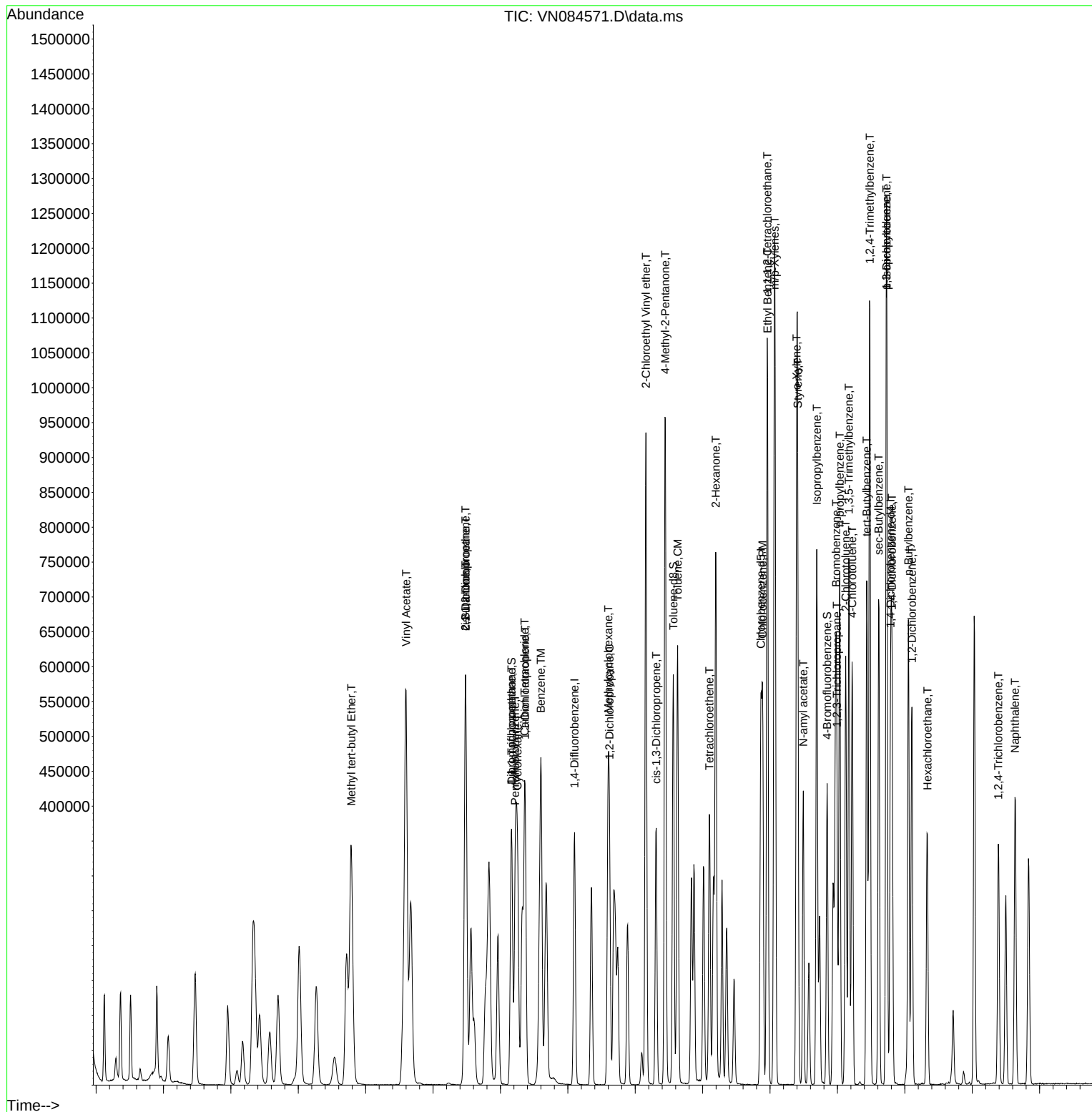
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Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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

Manual Integrations
APPROVED

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



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)

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

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)
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-ethyl 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

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

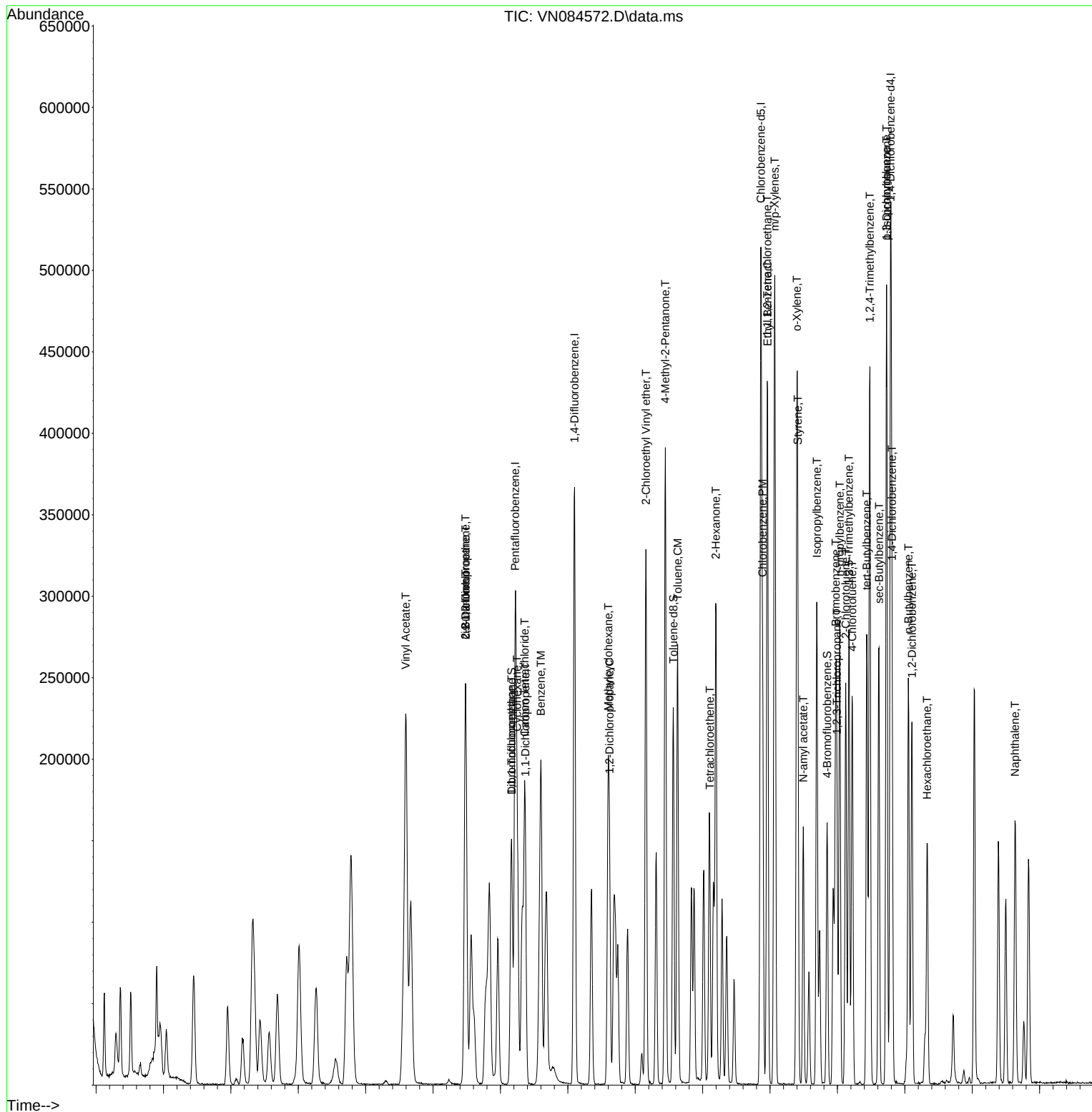
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\  
Data File : VN084572.D  
Acq On    : 30 Oct 2024 12:33  
Operator  : JC\MD  
Sample    : VSTDICC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 1 Sample Multiplier: 1
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Instrument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



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)

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

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)
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

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

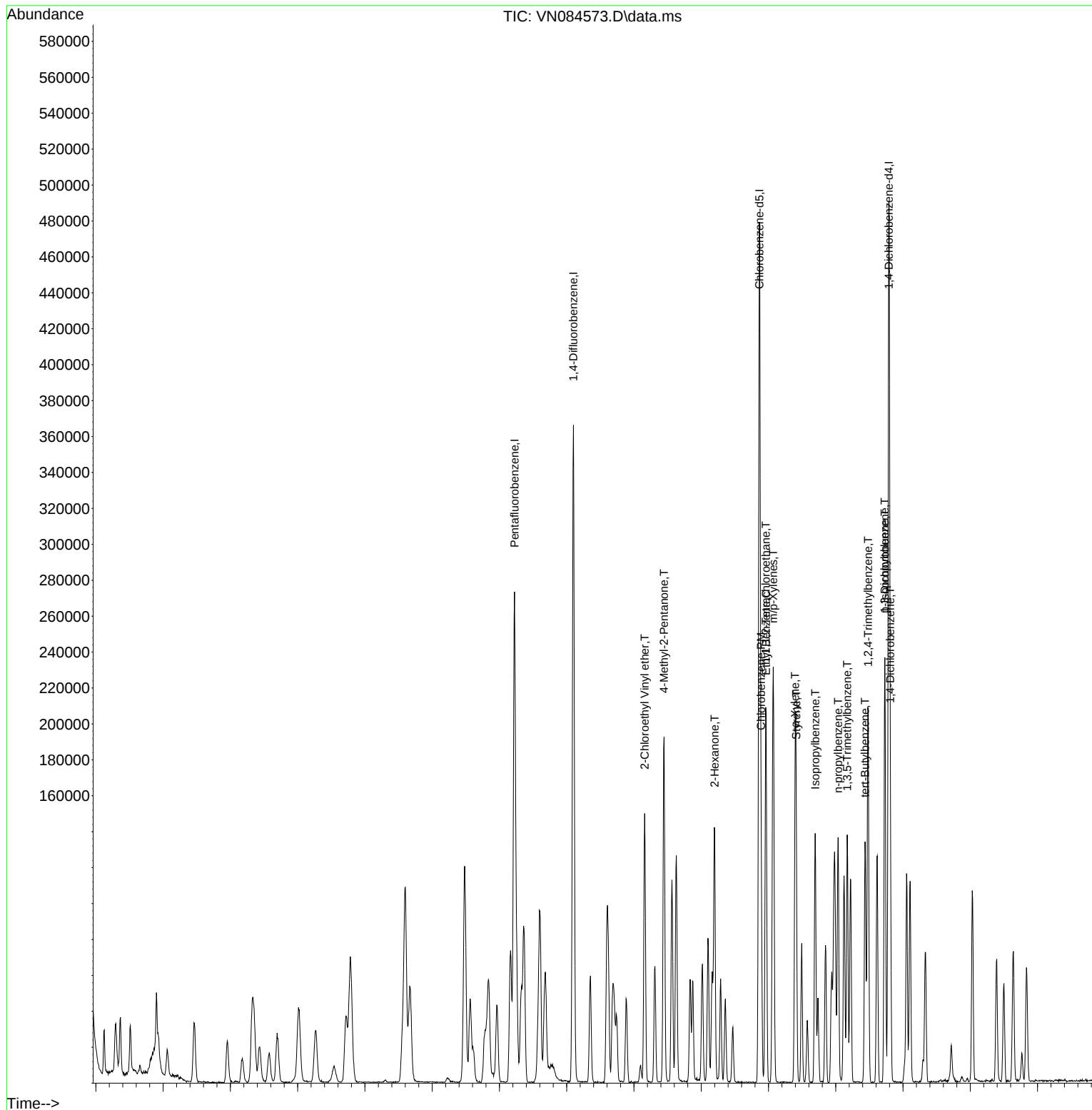
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Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

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



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

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)
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

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

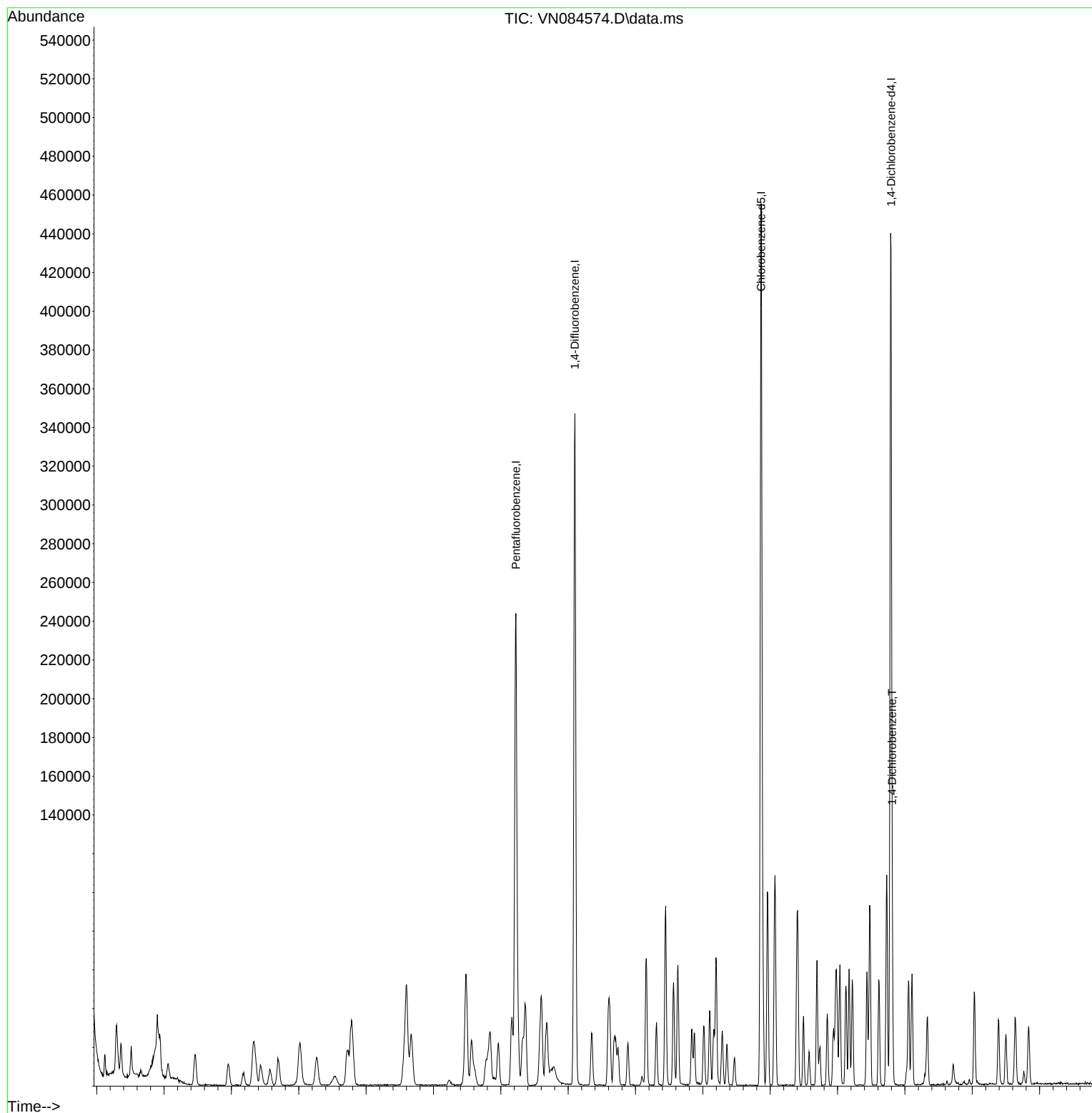
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

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



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

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)
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

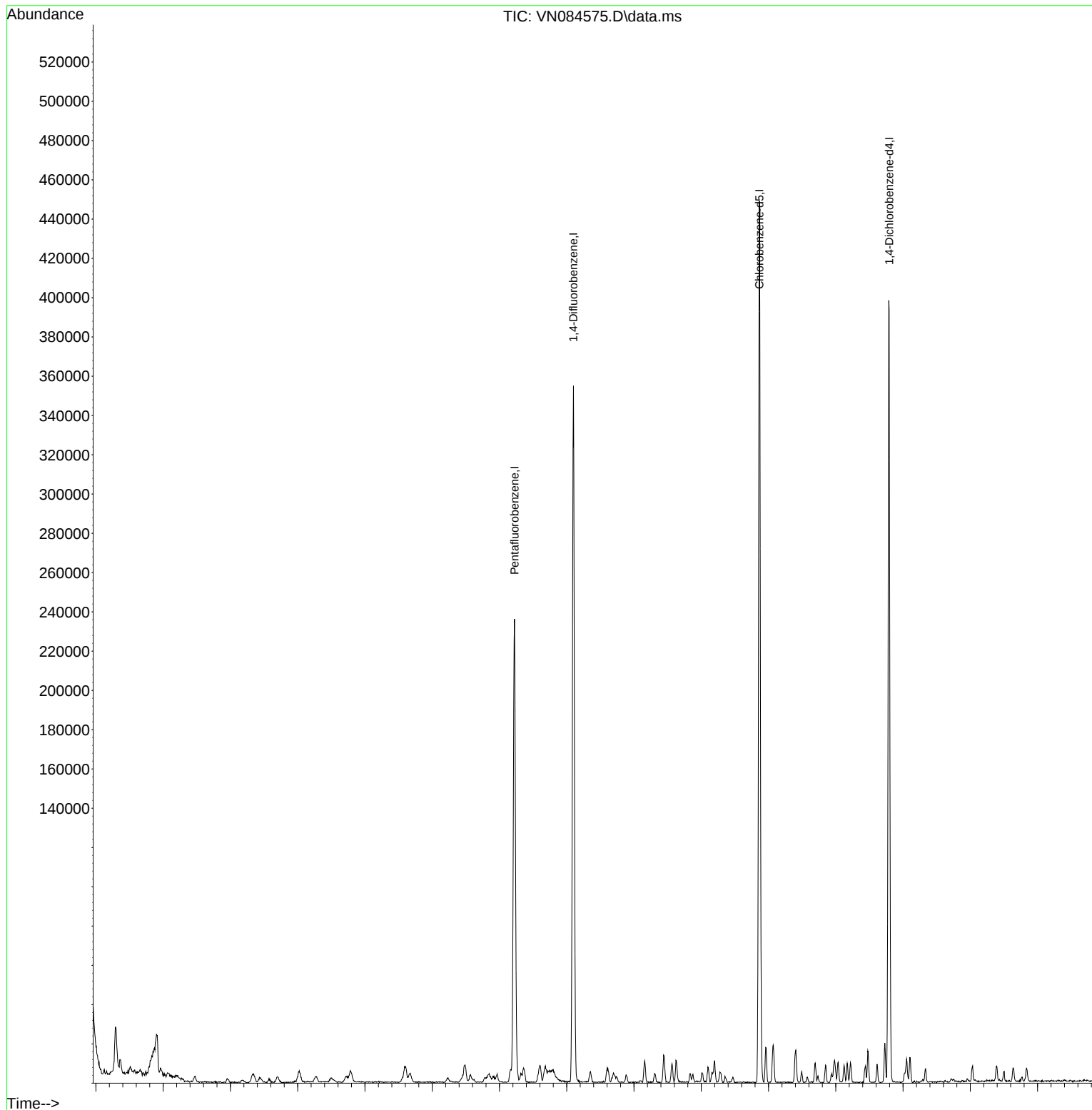
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084575.D
Acq On : 30 Oct 2024 13:45
Operator : JC\MD
Sample : VSTDIC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

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



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 :
 ICSVN103024

Manual Integrations
 APPROVED

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

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

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 :
 ICSVN103024

Manual Integrations
 APPROVED

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

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)
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

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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 11/04/2024

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

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

Instrument :

MSVOA_N

ClientSampleId :

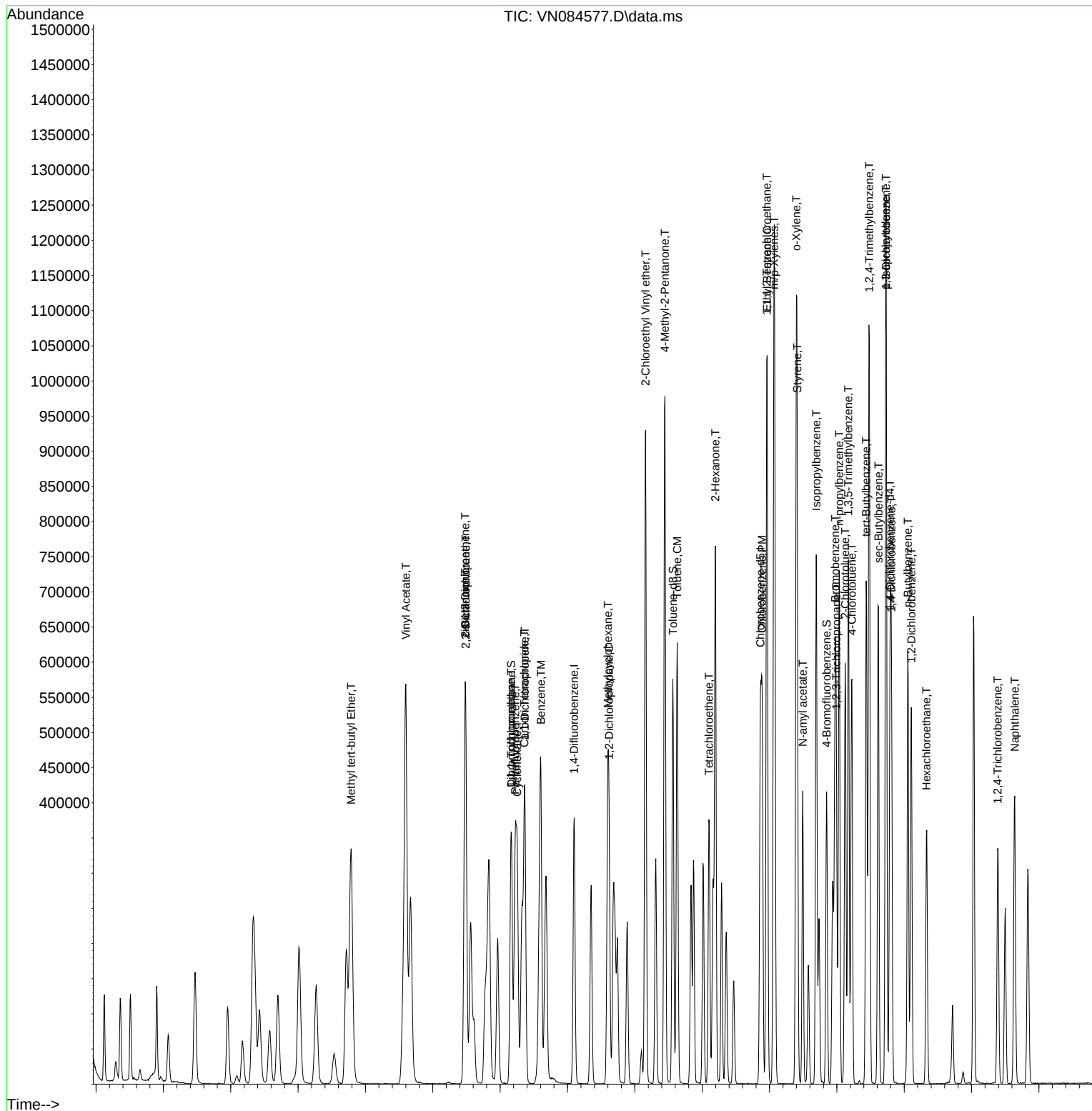
ICVVN103024

Manual Integrations

APPROVED

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

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
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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
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 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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
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 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN103024

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

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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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
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 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

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

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG No.: P4871

Instrument ID: MSVOA_N Calibration Date/Time: 11/18/2024 09:51

Lab File ID: VN084911.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	0.613		-0.81	20
1,1-Dichloroethene	0.569	0.556		-2.29	20
2-Butanone	0.337	0.400		18.69	20
Carbon Tetrachloride	0.525	0.572		8.95	20
Chloroform	1.121	1.196		6.69	20
Benzene	1.507	1.585		5.18	20
1,2-Dichloroethane	0.488	0.532		9.02	20
Trichloroethene	0.348	0.351		0.86	20
Tetrachloroethene	0.333	0.343		3	20
Chlorobenzene	1.119	1.141	0.3	1.97	20
1,2-Dichloroethane-d4	0.722	0.729		0.97	20
Dibromofluoromethane	0.338	0.348		2.96	20
Toluene-d8	1.247	1.248		0.08	20
4-Bromofluorobenzene	0.466	0.461		-1.07	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\VN111824\
 Data File : VN084911.D
 Acq On : 18 Nov 2024 09:51
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 11/19/2024
 Supervised By : Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:22:14 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	168638	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	277153	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	245519	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120987	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	122943	50.475	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.960%
35) Dibromofluoromethane	8.165	113	96367	51.369	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.740%
50) Toluene-d8	10.565	98	345790	50.038	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.080%
62) 4-Bromofluorobenzene	12.847	95	127896	49.520	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.040%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.118	85	94140	48.560	ug/l	97
3) Chloromethane	2.359	50	106397	46.601	ug/l	98
4) Vinyl Chloride	2.512	62	103437	49.608	ug/l	97
5) Bromomethane	2.901	94	56086	50.768	ug/l	98
6) Chloroethane	3.065	64	69564	54.008	ug/l	98
7) Trichlorofluoromethane	3.465	101	176382	51.352	ug/l	97
8) Diethyl Ether	3.953	74	63015	52.008	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	102681	52.906	ug/l	99
10) Methyl Iodide	4.577	142	135583	52.270	ug/l	94
11) Tert butyl alcohol	5.542	59	79448	247.112	ug/l #	88
12) 1,1-Dichloroethene	4.324	96	93815	48.851	ug/l	96
13) Acrolein	4.171	56	77585	242.002	ug/l	98
14) Allyl chloride	5.012	41	156216	50.158	ug/l	93
15) Acrylonitrile	5.712	53	254739	273.694	ug/l	99
16) Acetone	4.424	43	217186	309.363	ug/l	100
17) Carbon Disulfide	4.695	76	257155	43.482	ug/l	99
18) Methyl Acetate	5.018	43	133018	51.908	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	321920	54.690	ug/l	99
20) Methylene Chloride	5.271	84	108903	50.836	ug/l	89
21) trans-1,2-Dichloroethene	5.777	96	97942	49.667	ug/l	96
22) Diisopropyl ether	6.671	45	336088	54.309	ug/l	98
23) Vinyl Acetate	6.594	43	1199542	281.078	ug/l	100
24) 1,1-Dichloroethane	6.559	63	194999	52.484	ug/l	98
25) 2-Butanone	7.483	43	337139	296.690	ug/l	99
26) 2,2-Dichloropropane	7.483	77	181782	56.214	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	122088	53.023	ug/l	96
28) Bromochloromethane	7.806	49	83372	56.322	ug/l	95
29) Tetrahydrofuran	7.836	42	215923	286.423	ug/l	96
30) Chloroform	7.959	83	201727	53.344	ug/l	96
31) Cyclohexane	8.253	56	161905	48.147	ug/l	98
32) 1,1,1-Trichloroethane	8.159	97	184581	53.627	ug/l	98
36) 1,1-Dichloropropene	8.365	75	135635	52.132	ug/l	99
37) Ethyl Acetate	7.559	43	135552	57.424	ug/l	98
38) Carbon Tetrachloride	8.359	117	158591	54.534	ug/l	98
39) Methylcyclohexane	9.594	83	145438	54.948	ug/l	98
40) Benzene	8.600	78	439334	52.580	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
 Data File : VN084911.D
 Acq On : 18 Nov 2024 09:51
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/19/2024
 Supervised By : Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:22:14 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)
41) Methacrylonitrile	7.771	41	72719	57.286	ug/l	96
42) 1,2-Dichloroethane	8.671	62	147319	54.442	ug/l	100
43) Isopropyl Acetate	8.688	43	235029	53.970	ug/l	99
44) Trichloroethene	9.347	130	97336	50.512	ug/l	99
45) 1,2-Dichloropropane	9.618	63	105711	53.933	ug/l	99
46) Dibromomethane	9.706	93	75555	54.629	ug/l	98
47) Bromodichloromethane	9.883	83	160196	54.948	ug/l	97
48) Methyl methacrylate	9.677	41	105134	57.226	ug/l	97
49) 1,4-Dioxane	9.694	88	35315	1084.756	ug/l #	94
51) 4-Methyl-2-Pentanone	10.441	43	673789	299.418	ug/l	99
52) Toluene	10.630	92	268205	54.885	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	156513	51.864	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	170454	53.367	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	100727	54.720	ug/l	96
56) Ethyl methacrylate	10.871	69	157529	59.164	ug/l	96
57) 1,3-Dichloropropane	11.159	76	171101	54.160	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	368017	295.379	ug/l	98
59) 2-Hexanone	11.194	43	507919	310.089	ug/l	98
60) Dibromochloromethane	11.359	129	115630	55.117	ug/l	98
61) 1,2-Dibromoethane	11.471	107	100185	53.148	ug/l	100
64) Tetrachloroethene	11.100	164	84223	51.572	ug/l	97
65) Chlorobenzene	11.888	112	280248	51.022	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	102787	53.800	ug/l	99
67) Ethyl Benzene	11.959	91	497151	54.224	ug/l	98
68) m/p-Xylenes	12.071	106	384862	110.877	ug/l	100
69) o-Xylene	12.394	106	182327	56.150	ug/l	100
70) Styrene	12.406	104	310628	54.839	ug/l	99
71) Bromoform	12.576	173	76522	53.228	ug/l #	100
73) Isopropylbenzene	12.694	105	465886	54.949	ug/l	100
74) N-ethyl acetate	12.494	43	195775	54.252	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	148276	52.394	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	121239m	50.130	ug/l	
77) Bromobenzene	12.976	156	115164	50.527	ug/l	95
78) n-propylbenzene	13.035	91	543291	54.683	ug/l	100
79) 2-Chlorotoluene	13.123	91	338859	52.198	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	394394	56.125	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	50580m	49.616	ug/l	
82) 4-Chlorotoluene	13.218	91	340174	49.791	ug/l	99
83) tert-Butylbenzene	13.435	119	324633	55.819	ug/l	97
84) 1,2,4-Trimethylbenzene	13.476	105	400869	55.272	ug/l	99
85) sec-Butylbenzene	13.612	105	452436	55.073	ug/l	100
86) p-Isopropyltoluene	13.729	119	384216	57.027	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	207861	46.729	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	206880	50.751	ug/l	99
89) n-Butylbenzene	14.053	91	317355	50.355	ug/l	99
90) Hexachloroethane	14.329	117	73571	48.966	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	214119	50.093	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28020	48.873	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	100485	42.950	ug/l	99
94) Hexachlorobutadiene	15.500	225	47622	46.351	ug/l	98
95) Naphthalene	15.641	128	326855	46.675	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	102100	44.956	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:22:14 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

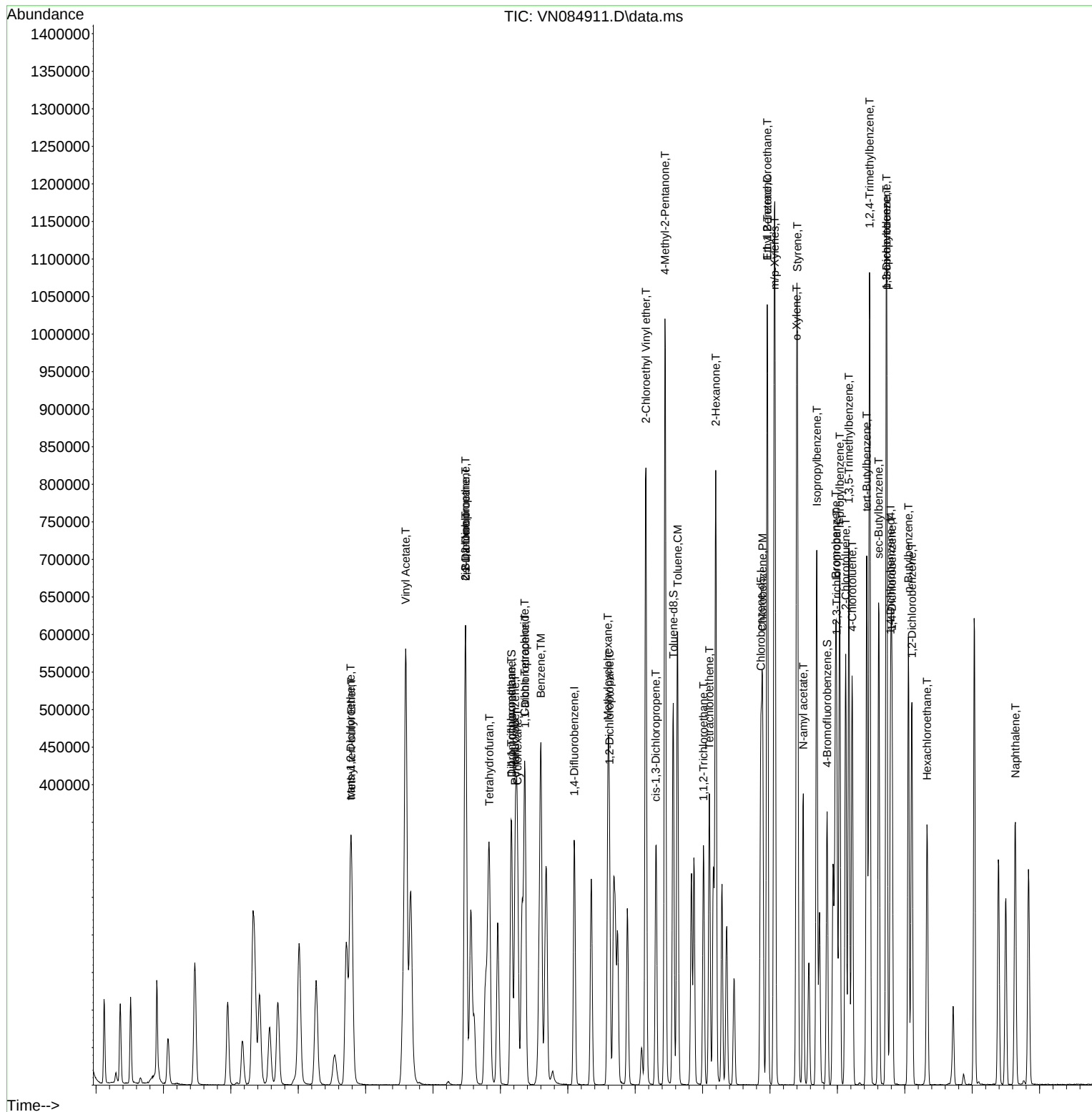
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:22:14 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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
 Data File : VN084911.D
 Acq On : 18 Nov 2024 09:51
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 19 00:22:14 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	90	0.00
2 T	Dichlorodifluoromethane	0.575	0.558	3.0	91	0.00
3 P	Chloromethane	0.952	0.631	33.7#	85	0.00
4 C	Vinyl Chloride	0.618	0.613	0.8#	92	0.00
5 T	Bromomethane	0.328	0.333	-1.5	102	-0.05
6 T	Chloroethane	0.488	0.413	15.4	99	-0.05
7 T	Trichlorofluoromethane	1.018	1.046	-2.8	99	-0.03
8 T	Diethyl Ether	0.359	0.374	-4.2	96	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.575	0.609	-5.9	99	-0.01
10 T	Methyl Iodide	0.769	0.804	-4.6	99	-0.02
11 T	Tert butyl alcohol	0.095	0.094	1.1	99	0.02
12 CM	1,1-Dichloroethene	0.569	0.556	2.3#	93	-0.02
13 T	Acrolein	0.095	0.092	3.2	94	0.00
14 T	Allyl chloride	0.923	0.926	-0.3	91	-0.01
15 T	Acrylonitrile	0.276	0.302	-9.4	101	0.00
16 T	Acetone	0.238	0.258	-8.4	114	0.00
17 T	Carbon Disulfide	1.753	1.525	13.0	86	-0.02
18 T	Methyl Acetate	1.172	0.789	32.7#	95	0.00
19 T	Methyl tert-butyl Ether	1.745	1.909	-9.4	98	0.00
20 T	Methylene Chloride	0.635	0.646	-1.7	97	0.00
21 T	trans-1,2-Dichloroethene	0.585	0.581	0.7	93	-0.01
22 T	Diisopropyl ether	1.835	1.993	-8.6	97	0.00
23 T	Vinyl Acetate	1.265	1.423	-12.5	99	0.00
24 P	1,1-Dichloroethane	1.102	1.156	-4.9	98	-0.01
25 T	2-Butanone	0.337	0.400	-18.7	115	0.00
26 T	2,2-Dichloropropane	0.959	1.078	-12.4	104	0.00
27 T	cis-1,2-Dichloroethene	0.683	0.724	-6.0	99	0.00
28 T	Bromochloromethane	0.439	0.494	-12.5	88	0.00
29 T	Tetrahydrofuran	0.224	0.256	-14.3	104	0.00
30 C	Chloroform	1.121	1.196	-6.7#	100	0.00
31 T	Cyclohexane	0.997	0.960	3.7	92	0.00
32 T	1,1,1-Trichloroethane	1.021	1.095	-7.2	100	-0.01
33 S	1,2-Dichloroethane-d4	0.722	0.729	-1.0	91	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
35 S	Dibromofluoromethane	0.338	0.348	-3.0	90	0.00
36 T	1,1-Dichloropropene	0.469	0.489	-4.3	96	0.00
37 T	Ethyl Acetate	0.426	0.489	-14.8	103	0.00
38 T	Carbon Tetrachloride	0.525	0.572	-9.0	99	0.00
39 T	Methylcyclohexane	0.478	0.525	-9.8	92	0.00
40 TM	Benzene	1.507	1.585	-5.2	97	0.00
41 T	Methacrylonitrile	0.229	0.262	-14.4	95	0.00
42 TM	1,2-Dichloroethane	0.488	0.532	-9.0	96	0.00
43 T	Isopropyl Acetate	0.927	0.848	8.5	100	0.00
44 TM	Trichloroethene	0.348	0.351	-0.9	93	0.00
45 C	1,2-Dichloropropane	0.354	0.381	-7.6#	98	0.00
46 T	Dibromomethane	0.250	0.273	-9.2	99	0.00
47 T	Bromodichloromethane	0.526	0.578	-9.9	99	0.00
48 T	Methyl methacrylate	0.331	0.379	-14.5	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
 Data File : VN084911.D
 Acq On : 18 Nov 2024 09:51
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 19 00:22:14 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	94	0.00
50 S	Toluene-d8	1.247	1.248	-0.1	85	0.00
51 T	4-Methyl-2-Pentanone	0.406	0.486	-19.7	102	0.00
52 CM	Toluene	0.882	0.968	-9.8#	96	0.00
53 T	t-1,3-Dichloropropene	0.544	0.565	-3.9	93	0.00
54 T	cis-1,3-Dichloropropene	0.576	0.615	-6.8	94	0.00
55 T	1,1,2-Trichloroethane	0.332	0.363	-9.3	98	0.00
56 T	Ethyl methacrylate	0.480	0.568	-18.3	94	0.00
57 T	1,3-Dichloropropane	0.570	0.617	-8.2	97	0.00
58 T	2-Chloroethyl Vinyl ether	0.225	0.266	-18.2	90	0.00
59 T	2-Hexanone	0.296	0.367	-24.0	105	0.00
60 T	Dibromochloromethane	0.378	0.417	-10.3	94	0.00
61 T	1,2-Dibromoethane	0.340	0.361	-6.2	96	0.00
62 S	4-Bromofluorobenzene	0.466	0.461	1.1	83	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	88	0.00
64 T	Tetrachloroethene	0.333	0.343	-3.0	96	0.00
65 PM	Chlorobenzene	1.119	1.141	-2.0	95	0.00
66 T	1,1,1,2-Tetrachloroethane	0.389	0.419	-7.7	98	0.00
67 C	Ethyl Benzene	1.867	2.025	-8.5#	94	0.00
68 T	m/p-Xylenes	0.707	0.784	-10.9	95	0.00
69 T	o-Xylene	0.661	0.743	-12.4	95	0.00
70 T	Styrene	1.154	1.265	-9.6	92	0.00
71 P	Bromoform	0.293	0.312	-6.5	93	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
73 T	Isopropylbenzene	3.504	3.851	-9.9	94	0.00
74 T	N-amyl acetate	1.491	1.618	-8.5	93	0.00
75 P	1,1,2,2-Tetrachloroethane	1.170	1.226	-4.8	100	0.00
76 T	1,2,3-Trichloropropane	0.999	1.002	-0.3	99	0.00
77 T	Bromobenzene	0.942	0.952	-1.1	94	0.00
78 T	n-propylbenzene	4.106	4.490	-9.4	93	0.00
79 T	2-Chlorotoluene	2.683	2.801	-4.4	93	0.00
80 T	1,3,5-Trimethylbenzene	2.904	3.260	-12.3	93	0.00
81 T	trans-1,4-Dichloro-2-butene	0.421	0.418	0.7	91	0.00
82 T	4-Chlorotoluene	2.823	2.812	0.4	91	0.00
83 T	tert-Butylbenzene	2.403	2.683	-11.7	93	0.00
84 T	1,2,4-Trimethylbenzene	2.997	3.313	-10.5	92	0.00
85 T	sec-Butylbenzene	3.395	3.740	-10.2	92	0.00
86 T	p-Isopropyltoluene	2.784	3.176	-14.1	91	0.00
87 T	1,3-Dichlorobenzene	1.838	1.718	6.5	90	0.00
88 T	1,4-Dichlorobenzene	1.937	1.710	11.7	89	0.00
89 T	n-Butylbenzene	2.605	2.623	-0.7	88	0.00
90 T	Hexachloroethane	0.621	0.608	2.1	90	0.00
91 T	1,2-Dichlorobenzene	1.766	1.770	-0.2	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.237	0.232	2.1	93	0.00
93 T	1,2,4-Trichlorobenzene	0.967	0.831	14.1	84	0.00
94 T	Hexachlorobutadiene	0.425	0.394	7.3	93	0.00
95 T	Naphthalene	2.894	2.702	6.6	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 19 00:22:14 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	0.844	10.1	88	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
 Data File : VN084911.D
 Acq On : 18 Nov 2024 09:51
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 19 00:22:14 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	90	0.00
2 T	Dichlorodifluoromethane	50.000	48.560	2.9	91	0.00
3 P	Chloromethane	50.000	46.601	6.8	85	0.00
4 C	Vinyl Chloride	50.000	49.608	0.8#	92	0.00
5 T	Bromomethane	50.000	50.768	-1.5	102	-0.05
6 T	Chloroethane	50.000	54.008	-8.0	99	-0.05
7 T	Trichlorofluoromethane	50.000	51.352	-2.7	99	-0.03
8 T	Diethyl Ether	50.000	52.008	-4.0	96	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	52.906	-5.8	99	-0.01
10 T	Methyl Iodide	50.000	52.270	-4.5	99	-0.02
11 T	Tert butyl alcohol	250.000	247.112	1.2	99	0.02
12 CM	1,1-Dichloroethene	50.000	48.851	2.3#	93	-0.02
13 T	Acrolein	250.000	242.002	3.2	94	0.00
14 T	Allyl chloride	50.000	50.158	-0.3	91	-0.01
15 T	Acrylonitrile	250.000	273.694	-9.5	101	0.00
16 T	Acetone	250.000	309.363	-23.7	114	0.00
17 T	Carbon Disulfide	50.000	43.482	13.0	86	-0.02
18 T	Methyl Acetate	50.000	51.908	-3.8	95	0.00
19 T	Methyl tert-butyl Ether	50.000	54.690	-9.4	98	0.00
20 T	Methylene Chloride	50.000	50.836	-1.7	97	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.667	0.7	93	-0.01
22 T	Diisopropyl ether	50.000	54.309	-8.6	97	0.00
23 T	Vinyl Acetate	250.000	281.078	-12.4	99	0.00
24 P	1,1-Dichloroethane	50.000	52.484	-5.0	98	-0.01
25 T	2-Butanone	250.000	296.690	-18.7	115	0.00
26 T	2,2-Dichloropropane	50.000	56.214	-12.4	104	0.00
27 T	cis-1,2-Dichloroethene	50.000	53.023	-6.0	99	0.00
28 T	Bromochloromethane	50.000	56.322	-12.6	88	0.00
29 T	Tetrahydrofuran	250.000	286.423	-14.6	104	0.00
30 C	Chloroform	50.000	53.344	-6.7#	100	0.00
31 T	Cyclohexane	50.000	48.147	3.7	92	0.00
32 T	1,1,1-Trichloroethane	50.000	53.627	-7.3	100	-0.01
33 S	1,2-Dichloroethane-d4	50.000	50.475	-1.0	91	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	89	0.00
35 S	Dibromofluoromethane	50.000	51.369	-2.7	90	0.00
36 T	1,1-Dichloropropene	50.000	52.132	-4.3	96	0.00
37 T	Ethyl Acetate	50.000	57.424	-14.8	103	0.00
38 T	Carbon Tetrachloride	50.000	54.534	-9.1	99	0.00
39 T	Methylcyclohexane	50.000	54.948	-9.9	92	0.00
40 TM	Benzene	50.000	52.580	-5.2	97	0.00
41 T	Methacrylonitrile	50.000	57.286	-14.6	95	0.00
42 TM	1,2-Dichloroethane	50.000	54.442	-8.9	96	0.00
43 T	Isopropyl Acetate	50.000	53.970	-7.9	100	0.00
44 TM	Trichloroethene	50.000	50.512	-1.0	93	0.00
45 C	1,2-Dichloropropane	50.000	53.933	-7.9#	98	0.00
46 T	Dibromomethane	50.000	54.629	-9.3	99	0.00
47 T	Bromodichloromethane	50.000	54.948	-9.9	99	0.00
48 T	Methyl methacrylate	50.000	57.226	-14.5	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
 Data File : VN084911.D
 Acq On : 18 Nov 2024 09:51
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 19 00:22:14 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	1084.756	-8.5	94	0.00
50 S	Toluene-d8	50.000	50.038	-0.1	85	0.00
51 T	4-Methyl-2-Pentanone	250.000	299.418	-19.8	102	0.00
52 CM	Toluene	50.000	54.885	-9.8#	96	0.00
53 T	t-1,3-Dichloropropene	50.000	51.864	-3.7	93	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.367	-6.7	94	0.00
55 T	1,1,2-Trichloroethane	50.000	54.720	-9.4	98	0.00
56 T	Ethyl methacrylate	50.000	59.164	-18.3	94	0.00
57 T	1,3-Dichloropropane	50.000	54.160	-8.3	97	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	295.379	-18.2	90	0.00
59 T	2-Hexanone	250.000	310.089	-24.0	105	0.00
60 T	Dibromochloromethane	50.000	55.117	-10.2	94	0.00
61 T	1,2-Dibromoethane	50.000	53.148	-6.3	96	0.00
62 S	4-Bromofluorobenzene	50.000	49.520	1.0	83	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	88	0.00
64 T	Tetrachloroethene	50.000	51.572	-3.1	96	0.00
65 PM	Chlorobenzene	50.000	51.022	-2.0	95	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.800	-7.6	98	0.00
67 C	Ethyl Benzene	50.000	54.224	-8.4#	94	0.00
68 T	m/p-Xylenes	100.000	110.877	-10.9	95	0.00
69 T	o-Xylene	50.000	56.150	-12.3	95	0.00
70 T	Styrene	50.000	54.839	-9.7	92	0.00
71 P	Bromoform	50.000	53.228	-6.5	93	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	87	0.00
73 T	Isopropylbenzene	50.000	54.949	-9.9	94	0.00
74 T	N-amyl acetate	50.000	54.252	-8.5	93	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.394	-4.8	100	0.00
76 T	1,2,3-Trichloropropane	50.000	50.130	-0.3	99	0.00
77 T	Bromobenzene	50.000	50.527	-1.1	94	0.00
78 T	n-propylbenzene	50.000	54.683	-9.4	93	0.00
79 T	2-Chlorotoluene	50.000	52.198	-4.4	93	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.125	-12.3	93	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.616	0.8	91	0.00
82 T	4-Chlorotoluene	50.000	49.791	0.4	91	0.00
83 T	tert-Butylbenzene	50.000	55.819	-11.6	93	0.00
84 T	1,2,4-Trimethylbenzene	50.000	55.272	-10.5	92	0.00
85 T	sec-Butylbenzene	50.000	55.073	-10.1	92	0.00
86 T	p-Isopropyltoluene	50.000	57.027	-14.1	91	0.00
87 T	1,3-Dichlorobenzene	50.000	46.729	6.5	90	0.00
88 T	1,4-Dichlorobenzene	50.000	50.751	-1.5	89	0.00
89 T	n-Butylbenzene	50.000	50.355	-0.7	88	0.00
90 T	Hexachloroethane	50.000	48.966	2.1	90	0.00
91 T	1,2-Dichlorobenzene	50.000	50.093	-0.2	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	48.873	2.3	93	0.00
93 T	1,2,4-Trichlorobenzene	50.000	42.950	14.1	84	0.00
94 T	Hexachlorobutadiene	50.000	46.351	7.3	93	0.00
95 T	Naphthalene	50.000	46.675	6.7	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084911.D
Acq On : 18 Nov 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 19 00:22:14 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	44.956	10.1	88	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02
 Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG No.: P4871
 Instrument ID: MSVOA_N Calibration Date/Time: 11/19/2024 09:27
 Lab File ID: VN084935.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	0.560		-9.39	20
1,1-Dichloroethene	0.569	0.508		-10.72	20
2-Butanone	0.337	0.360		6.82	20
Carbon Tetrachloride	0.525	0.510		-2.86	20
Chloroform	1.121	1.094		-2.41	20
Benzene	1.507	1.411		-6.37	20
1,2-Dichloroethane	0.488	0.486		-0.41	20
Trichloroethene	0.348	0.317		-8.91	20
Tetrachloroethene	0.333	0.320		-3.9	20
Chlorobenzene	1.119	1.066	0.3	-4.74	20
1,2-Dichloroethane-d4	0.722	0.672		-6.93	20
Dibromofluoromethane	0.338	0.314		-7.1	20
Toluene-d8	1.247	1.131		-9.3	20
4-Bromofluorobenzene	0.466	0.444		-4.72	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\VN111924\
 Data File : VN084935.D
 Acq On : 19 Nov 2024 09:27
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/20/2024
 Supervised By : Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 00:20:14 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	191121	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	319795	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	272380	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	140060	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	128370	46.504	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.000%
35) Dibromofluoromethane	8.165	113	100296	46.334	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	92.660%
50) Toluene-d8	10.565	98	361805	45.374	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	90.740%
62) 4-Bromofluorobenzene	12.847	95	141878	47.609	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.220%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	97001	44.150	ug/l	95
3) Chloromethane	2.359	50	110597	42.522	ug/l	97
4) Vinyl Chloride	2.512	62	107008	45.283	ug/l	97
5) Bromomethane	2.906	94	55094	44.003	ug/l	98
6) Chloroethane	3.077	64	70713	48.294	ug/l	93
7) Trichlorofluoromethane	3.471	101	182356	46.846	ug/l	97
8) Diethyl Ether	3.953	74	65937	48.018	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.359	101	105288	47.867	ug/l	99
10) Methyl Iodide	4.577	142	142160	48.358	ug/l	97
11) Tert butyl alcohol	5.536	59	87458	240.025	ug/l	99
12) 1,1-Dichloroethene	4.330	96	97079	44.604	ug/l	95
13) Acrolein	4.171	56	99160	272.913	ug/l	98
14) Allyl chloride	5.012	41	161760	45.828	ug/l	96
15) Acrylonitrile	5.712	53	260199	246.673	ug/l	99
16) Acetone	4.424	43	226860	284.903	ug/l	100
17) Carbon Disulfide	4.700	76	259868	38.771	ug/l	98
18) Methyl Acetate	5.018	43	133214	45.365	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	344516	51.644	ug/l	97
20) Methylene Chloride	5.265	84	111930	46.103	ug/l	94
21) trans-1,2-Dichloroethene	5.777	96	102229	45.743	ug/l	99
22) Diisopropyl ether	6.665	45	352685	50.286	ug/l	98
23) Vinyl Acetate	6.594	43	1255562	259.595	ug/l	98
24) 1,1-Dichloroethane	6.559	63	201578	47.872	ug/l	98
25) 2-Butanone	7.483	43	344040	267.147	ug/l	98
26) 2,2-Dichloropropane	7.488	77	182683	49.847	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	125243	47.994	ug/l	99
28) Bromochloromethane	7.806	49	95018	56.639	ug/l	96
29) Tetrahydrofuran	7.836	42	218171	255.360	ug/l	96
30) Chloroform	7.959	83	209141	48.799	ug/l	97
31) Cyclohexane	8.253	56	171769	45.071	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	189765	48.647	ug/l	99
36) 1,1-Dichloropropene	8.365	75	140999	46.967	ug/l	99
37) Ethyl Acetate	7.553	43	136462	50.101	ug/l	98
38) Carbon Tetrachloride	8.359	117	162977	48.570	ug/l	98
39) Methylcyclohexane	9.594	83	156684	51.303	ug/l	98
40) Benzene	8.600	78	451082	46.788	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
 Data File : VN084935.D
 Acq On : 19 Nov 2024 09:27
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/20/2024
 Supervised By : Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 00:20:14 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)
41) Methacrylonitrile	7.771	41	77366	52.820	ug/l	97
42) 1,2-Dichloroethane	8.665	62	155403	49.771	ug/l	99
43) Isopropyl Acetate	8.683	43	251358	49.952	ug/l	100
44) Trichloroethene	9.347	130	101462	45.632	ug/l	99
45) 1,2-Dichloropropane	9.618	63	112302	49.656	ug/l	99
46) Dibromomethane	9.706	93	77732	48.708	ug/l	99
47) Bromodichloromethane	9.882	83	165675	49.250	ug/l #	99
48) Methyl methacrylate	9.677	41	108960	51.400	ug/l	97
49) 1,4-Dioxane	9.694	88	36146	962.235	ug/l #	81
51) 4-Methyl-2-Pentanone	10.441	43	695093	267.698	ug/l	99
52) Toluene	10.629	92	277347	49.188	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	162768	46.744	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	181142	49.151	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	104942	49.408	ug/l	97
56) Ethyl methacrylate	10.871	69	168362	54.801	ug/l	97
57) 1,3-Dichloropropane	11.159	76	179454	49.230	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	402039	279.659	ug/l	97
59) 2-Hexanone	11.194	43	521393	275.870	ug/l	98
60) Dibromochloromethane	11.359	129	122913	50.776	ug/l	99
61) 1,2-Dibromoethane	11.471	107	103704	47.679	ug/l	100
64) Tetrachloroethene	11.100	164	87135	48.094	ug/l	97
65) Chlorobenzene	11.888	112	290368	47.651	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	105627	49.834	ug/l	99
67) Ethyl Benzene	11.959	91	516649	50.793	ug/l	99
68) m/p-Xylenes	12.071	106	398723	103.542	ug/l	100
69) o-Xylene	12.394	106	191427	53.139	ug/l	100
70) Styrene	12.406	104	324789	51.684	ug/l	99
71) Bromoform	12.576	173	79980	50.147	ug/l #	99
73) Isopropylbenzene	12.694	105	484105	49.323	ug/l	100
74) N-ethyl acetate	12.494	43	210044	50.280	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	152902	46.671	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	125541m	44.840	ug/l	
77) Bromobenzene	12.976	156	117590	44.566	ug/l	98
78) n-propylbenzene	13.035	91	560537	48.736	ug/l	99
79) 2-Chlorotoluene	13.123	91	357849	47.616	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	421482	51.812	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	53699	45.503	ug/l	89
82) 4-Chlorotoluene	13.218	91	361943	45.763	ug/l	99
83) tert-Butylbenzene	13.435	119	343776	51.061	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	428779	51.069	ug/l	99
85) sec-Butylbenzene	13.612	105	480667	50.542	ug/l	99
86) p-Isopropyltoluene	13.729	119	408036	52.315	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	217656	42.268	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	216598	45.744	ug/l	100
89) n-Butylbenzene	14.053	91	343697	47.108	ug/l	100
90) Hexachloroethane	14.329	117	76160	43.786	ug/l	96
91) 1,2-Dichlorobenzene	14.106	146	219245	44.308	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	29192	43.984	ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	107065	39.531	ug/l	99
94) Hexachlorobutadiene	15.500	225	49545	41.656	ug/l	99
95) Naphthalene	15.641	128	350435	43.227	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	106957	40.681	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
Data File : VN084935.D
Acq On : 19 Nov 2024 09:27
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 00:20:14 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

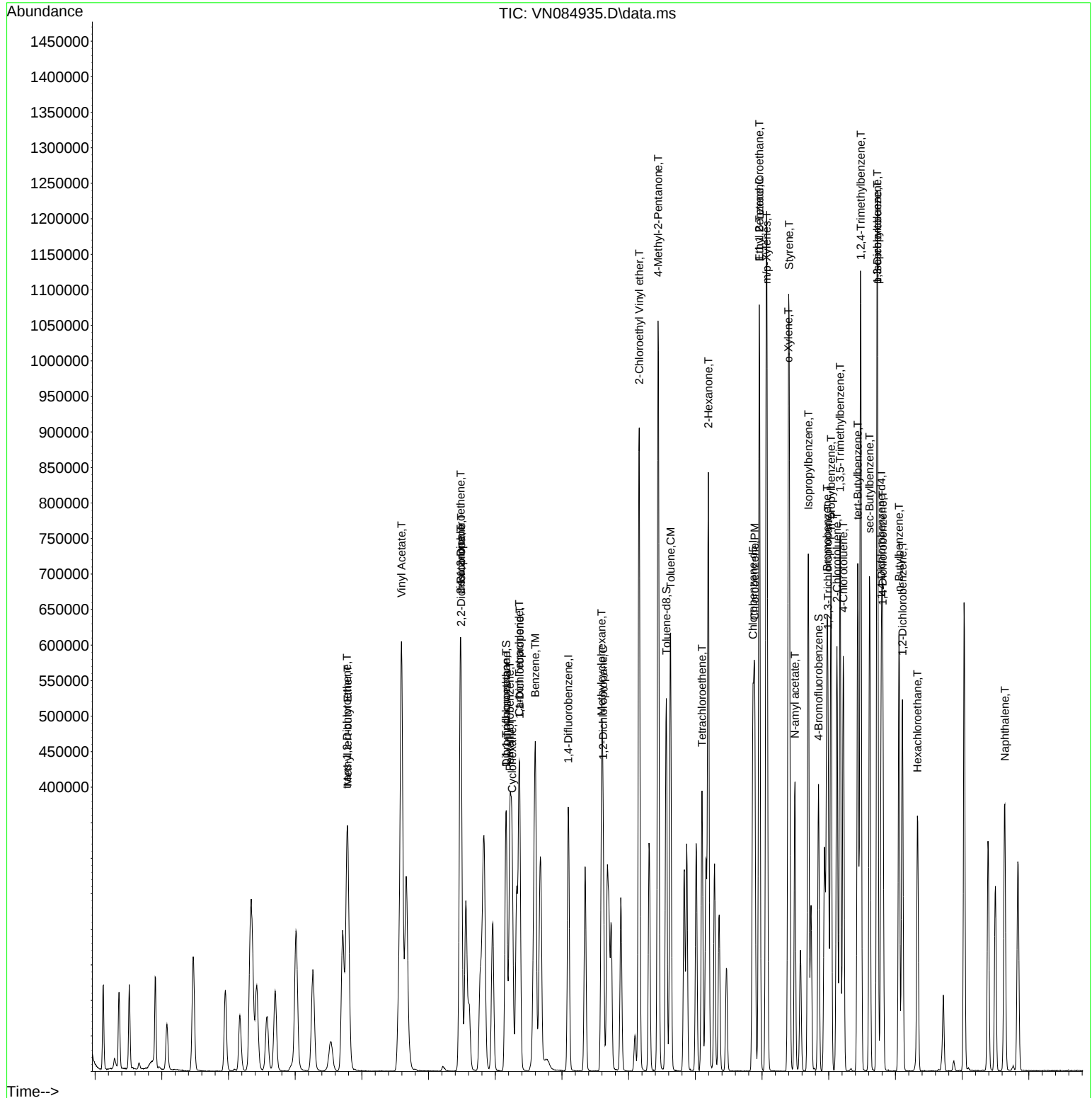
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
Data File : VN084935.D
Acq On : 19 Nov 2024 09:27
Operator : JC\MD
Sample : VSTDCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :John Carlone 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 00:20:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
 Data File : VN084935.D
 Acq On : 19 Nov 2024 09:27
 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 20 00:20:14 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	102	0.00
2 T	Dichlorodifluoromethane	0.575	0.508	11.7	94	0.00
3 P	Chloromethane	0.952	0.579	39.2#	88	0.00
4 C	Vinyl Chloride	0.618	0.560	9.4#	95	0.00
5 T	Bromomethane	0.328	0.288	12.2	100	-0.05
6 T	Chloroethane	0.488	0.370	24.2	101	-0.04
7 T	Trichlorofluoromethane	1.018	0.954	6.3	102	-0.02
8 T	Diethyl Ether	0.359	0.345	3.9	100	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.575	0.551	4.2	101	-0.01
10 T	Methyl Iodide	0.769	0.744	3.3	104	-0.02
11 T	Tert butyl alcohol	0.095	0.092	3.2	109	0.01
12 CM	1,1-Dichloroethene	0.569	0.508	10.7#	97	-0.01
13 T	Acrolein	0.095	0.104	-9.5	121	0.00
14 T	Allyl chloride	0.923	0.846	8.3	95	-0.01
15 T	Acrylonitrile	0.276	0.272	1.4	103	0.00
16 T	Acetone	0.238	0.237	0.4	119	0.00
17 T	Carbon Disulfide	1.753	1.360	22.4	87	-0.01
18 T	Methyl Acetate	1.172	0.697	40.5#	95	0.00
19 T	Methyl tert-butyl Ether	1.745	1.803	-3.3	105	0.00
20 T	Methylene Chloride	0.635	0.586	7.7	100	-0.01
21 T	trans-1,2-Dichloroethene	0.585	0.535	8.5	97	-0.01
22 T	Diisopropyl ether	1.835	1.845	-0.5	102	0.00
23 T	Vinyl Acetate	1.265	1.314	-3.9	104	0.00
24 P	1,1-Dichloroethane	1.102	1.055	4.3	101	-0.01
25 T	2-Butanone	0.337	0.360	-6.8	117	0.00
26 T	2,2-Dichloropropane	0.959	0.956	0.3	104	0.00
27 T	cis-1,2-Dichloroethene	0.683	0.655	4.1	101	0.00
28 T	Bromochloromethane	0.439	0.497	-13.2	100	0.00
29 T	Tetrahydrofuran	0.224	0.228	-1.8	105	0.00
30 C	Chloroform	1.121	1.094	2.4#	103	0.00
31 T	Cyclohexane	0.997	0.899	9.8	98	0.00
32 T	1,1,1-Trichloroethane	1.021	0.993	2.7	103	0.00
33 S	1,2-Dichloroethane-d4	0.722	0.672	6.9	95	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
35 S	Dibromofluoromethane	0.338	0.314	7.1	94	0.00
36 T	1,1-Dichloropropene	0.469	0.441	6.0	100	0.00
37 T	Ethyl Acetate	0.426	0.427	-0.2	104	0.00
38 T	Carbon Tetrachloride	0.525	0.510	2.9	102	0.00
39 T	Methylcyclohexane	0.478	0.490	-2.5	99	0.00
40 TM	Benzene	1.507	1.411	6.4	100	0.00
41 T	Methacrylonitrile	0.229	0.242	-5.7	101	0.00
42 TM	1,2-Dichloroethane	0.488	0.486	0.4	101	0.00
43 T	Isopropyl Acetate	0.927	0.786	15.2	107	0.00
44 TM	Trichloroethene	0.348	0.317	8.9	97	0.00
45 C	1,2-Dichloropropane	0.354	0.351	0.8#	104	0.00
46 T	Dibromomethane	0.250	0.243	2.8	102	0.00
47 T	Bromodichloromethane	0.526	0.518	1.5	102	0.00
48 T	Methyl methacrylate	0.331	0.341	-3.0	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
 Data File : VN084935.D
 Acq On : 19 Nov 2024 09:27
 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 20 00:20:14 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	96	0.00
50 S	Toluene-d8	1.247	1.131	9.3	89	0.00
51 T	4-Methyl-2-Pentanone	0.406	0.435	-7.1	106	0.00
52 CM	Toluene	0.882	0.867	1.7#	99	0.00
53 T	t-1,3-Dichloropropene	0.544	0.509	6.4	96	0.00
54 T	cis-1,3-Dichloropropene	0.576	0.566	1.7	100	0.00
55 T	1,1,2-Trichloroethane	0.332	0.328	1.2	102	0.00
56 T	Ethyl methacrylate	0.480	0.526	-9.6	100	0.00
57 T	1,3-Dichloropropane	0.570	0.561	1.6	102	0.00
58 T	2-Chloroethyl Vinyl ether	0.225	0.251	-11.6	99	0.00
59 T	2-Hexanone	0.296	0.326	-10.1	107	0.00
60 T	Dibromochloromethane	0.378	0.384	-1.6	100	0.00
61 T	1,2-Dibromoethane	0.340	0.324	4.7	100	0.00
62 S	4-Bromofluorobenzene	0.466	0.444	4.7	92	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
64 T	Tetrachloroethene	0.333	0.320	3.9	100	0.00
65 PM	Chlorobenzene	1.119	1.066	4.7	98	0.00
66 T	1,1,1,2-Tetrachloroethane	0.389	0.388	0.3	101	0.00
67 C	Ethyl Benzene	1.867	1.897	-1.6#	98	0.00
68 T	m/p-Xylenes	0.707	0.732	-3.5	98	0.00
69 T	o-Xylene	0.661	0.703	-6.4	99	0.00
70 T	Styrene	1.154	1.192	-3.3	96	0.00
71 P	Bromoform	0.293	0.294	-0.3	97	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
73 T	Isopropylbenzene	3.504	3.456	1.4	98	0.00
74 T	N-amyl acetate	1.491	1.500	-0.6	99	0.00
75 P	1,1,2,2-Tetrachloroethane	1.170	1.092	6.7	103	0.00
76 T	1,2,3-Trichloropropane	0.999	0.896	10.3	102	0.00
77 T	Bromobenzene	0.942	0.840	10.8	96	0.00
78 T	n-propylbenzene	4.106	4.002	2.5	96	0.00
79 T	2-Chlorotoluene	2.683	2.555	4.8	99	0.00
80 T	1,3,5-Trimethylbenzene	2.904	3.009	-3.6	99	0.00
81 T	trans-1,4-Dichloro-2-butene	0.421	0.383	9.0	97	0.00
82 T	4-Chlorotoluene	2.823	2.584	8.5	96	0.00
83 T	tert-Butylbenzene	2.403	2.454	-2.1	98	0.00
84 T	1,2,4-Trimethylbenzene	2.997	3.061	-2.1	98	0.00
85 T	sec-Butylbenzene	3.395	3.432	-1.1	98	0.00
86 T	p-Isopropyltoluene	2.784	2.913	-4.6	97	0.00
87 T	1,3-Dichlorobenzene	1.838	1.554	15.5	94	0.00
88 T	1,4-Dichlorobenzene	1.937	1.546	20.2	94	0.00
89 T	n-Butylbenzene	2.605	2.454	5.8	95	0.00
90 T	Hexachloroethane	0.621	0.544	12.4	93	0.00
91 T	1,2-Dichlorobenzene	1.766	1.565	11.4	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.237	0.208	12.2	97	0.00
93 T	1,2,4-Trichlorobenzene	0.967	0.764	21.0	90	0.00
94 T	Hexachlorobutadiene	0.425	0.354	16.7	97	0.00
95 T	Naphthalene	2.894	2.502	13.5	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
Data File : VN084935.D
Acq On : 19 Nov 2024 09:27
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 20 00:20:14 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	0.764	18.6	92	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
 Data File : VN084935.D
 Acq On : 19 Nov 2024 09:27
 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 20 00:20:14 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	102	0.00
2 T	Dichlorodifluoromethane	50.000	44.150	11.7	94	0.00
3 P	Chloromethane	50.000	42.522	15.0	88	0.00
4 C	Vinyl Chloride	50.000	45.283	9.4#	95	0.00
5 T	Bromomethane	50.000	44.003	12.0	100	-0.05
6 T	Chloroethane	50.000	48.294	3.4	101	-0.04
7 T	Trichlorofluoromethane	50.000	46.846	6.3	102	-0.02
8 T	Diethyl Ether	50.000	48.018	4.0	100	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.867	4.3	101	-0.01
10 T	Methyl Iodide	50.000	48.358	3.3	104	-0.02
11 T	Tert butyl alcohol	250.000	240.025	4.0	109	0.01
12 CM	1,1-Dichloroethene	50.000	44.604	10.8#	97	-0.01
13 T	Acrolein	250.000	272.913	-9.2	121	0.00
14 T	Allyl chloride	50.000	45.828	8.3	95	-0.01
15 T	Acrylonitrile	250.000	246.673	1.3	103	0.00
16 T	Acetone	250.000	284.903	-14.0	119	0.00
17 T	Carbon Disulfide	50.000	38.771	22.5	87	-0.01
18 T	Methyl Acetate	50.000	45.365	9.3	95	0.00
19 T	Methyl tert-butyl Ether	50.000	51.644	-3.3	105	0.00
20 T	Methylene Chloride	50.000	46.103	7.8	100	-0.01
21 T	trans-1,2-Dichloroethene	50.000	45.743	8.5	97	-0.01
22 T	Diisopropyl ether	50.000	50.286	-0.6	102	0.00
23 T	Vinyl Acetate	250.000	259.595	-3.8	104	0.00
24 P	1,1-Dichloroethane	50.000	47.872	4.3	101	-0.01
25 T	2-Butanone	250.000	267.147	-6.9	117	0.00
26 T	2,2-Dichloropropane	50.000	49.847	0.3	104	0.00
27 T	cis-1,2-Dichloroethene	50.000	47.994	4.0	101	0.00
28 T	Bromochloromethane	50.000	56.639	-13.3	100	0.00
29 T	Tetrahydrofuran	250.000	255.360	-2.1	105	0.00
30 C	Chloroform	50.000	48.799	2.4#	103	0.00
31 T	Cyclohexane	50.000	45.071	9.9	98	0.00
32 T	1,1,1-Trichloroethane	50.000	48.647	2.7	103	0.00
33 S	1,2-Dichloroethane-d4	50.000	46.504	7.0	95	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	103	0.00
35 S	Dibromofluoromethane	50.000	46.334	7.3	94	0.00
36 T	1,1-Dichloropropene	50.000	46.967	6.1	100	0.00
37 T	Ethyl Acetate	50.000	50.101	-0.2	104	0.00
38 T	Carbon Tetrachloride	50.000	48.570	2.9	102	0.00
39 T	Methylcyclohexane	50.000	51.303	-2.6	99	0.00
40 TM	Benzene	50.000	46.788	6.4	100	0.00
41 T	Methacrylonitrile	50.000	52.820	-5.6	101	0.00
42 TM	1,2-Dichloroethane	50.000	49.771	0.5	101	0.00
43 T	Isopropyl Acetate	50.000	49.952	0.1	107	0.00
44 TM	Trichloroethene	50.000	45.632	8.7	97	0.00
45 C	1,2-Dichloropropane	50.000	49.656	0.7#	104	0.00
46 T	Dibromomethane	50.000	48.708	2.6	102	0.00
47 T	Bromodichloromethane	50.000	49.250	1.5	102	0.00
48 T	Methyl methacrylate	50.000	51.400	-2.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
 Data File : VN084935.D
 Acq On : 19 Nov 2024 09:27
 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 20 00:20:14 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	962.235	3.8	96	0.00
50 S	Toluene-d8	50.000	45.374	9.3	89	0.00
51 T	4-Methyl-2-Pentanone	250.000	267.698	-7.1	106	0.00
52 CM	Toluene	50.000	49.188	1.6#	99	0.00
53 T	t-1,3-Dichloropropene	50.000	46.744	6.5	96	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.151	1.7	100	0.00
55 T	1,1,2-Trichloroethane	50.000	49.408	1.2	102	0.00
56 T	Ethyl methacrylate	50.000	54.801	-9.6	100	0.00
57 T	1,3-Dichloropropane	50.000	49.230	1.5	102	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	279.659	-11.9	99	0.00
59 T	2-Hexanone	250.000	275.870	-10.3	107	0.00
60 T	Dibromochloromethane	50.000	50.776	-1.6	100	0.00
61 T	1,2-Dibromoethane	50.000	47.679	4.6	100	0.00
62 S	4-Bromofluorobenzene	50.000	47.609	4.8	92	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
64 T	Tetrachloroethene	50.000	48.094	3.8	100	0.00
65 PM	Chlorobenzene	50.000	47.651	4.7	98	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.834	0.3	101	0.00
67 C	Ethyl Benzene	50.000	50.793	-1.6#	98	0.00
68 T	m/p-Xylenes	100.000	103.542	-3.5	98	0.00
69 T	o-Xylene	50.000	53.139	-6.3	99	0.00
70 T	Styrene	50.000	51.684	-3.4	96	0.00
71 P	Bromoform	50.000	50.147	-0.3	97	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	101	0.00
73 T	Isopropylbenzene	50.000	49.323	1.4	98	0.00
74 T	N-amyl acetate	50.000	50.280	-0.6	99	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	46.671	6.7	103	0.00
76 T	1,2,3-Trichloropropane	50.000	44.840	10.3	102	0.00
77 T	Bromobenzene	50.000	44.566	10.9	96	0.00
78 T	n-propylbenzene	50.000	48.736	2.5	96	0.00
79 T	2-Chlorotoluene	50.000	47.616	4.8	99	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.812	-3.6	99	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	45.503	9.0	97	0.00
82 T	4-Chlorotoluene	50.000	45.763	8.5	96	0.00
83 T	tert-Butylbenzene	50.000	51.061	-2.1	98	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.069	-2.1	98	0.00
85 T	sec-Butylbenzene	50.000	50.542	-1.1	98	0.00
86 T	p-Isopropyltoluene	50.000	52.315	-4.6	97	0.00
87 T	1,3-Dichlorobenzene	50.000	42.268	15.5	94	0.00
88 T	1,4-Dichlorobenzene	50.000	45.744	8.5	94	0.00
89 T	n-Butylbenzene	50.000	47.108	5.8	95	0.00
90 T	Hexachloroethane	50.000	43.786	12.4	93	0.00
91 T	1,2-Dichlorobenzene	50.000	44.308	11.4	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	43.984	12.0	97	0.00
93 T	1,2,4-Trichlorobenzene	50.000	39.531	20.9	90	0.00
94 T	Hexachlorobutadiene	50.000	41.656	16.7	97	0.00
95 T	Naphthalene	50.000	43.227	13.5	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
Data File : VN084935.D
Acq On : 19 Nov 2024 09:27
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 20 00:20:14 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	40.681	18.6	92	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6



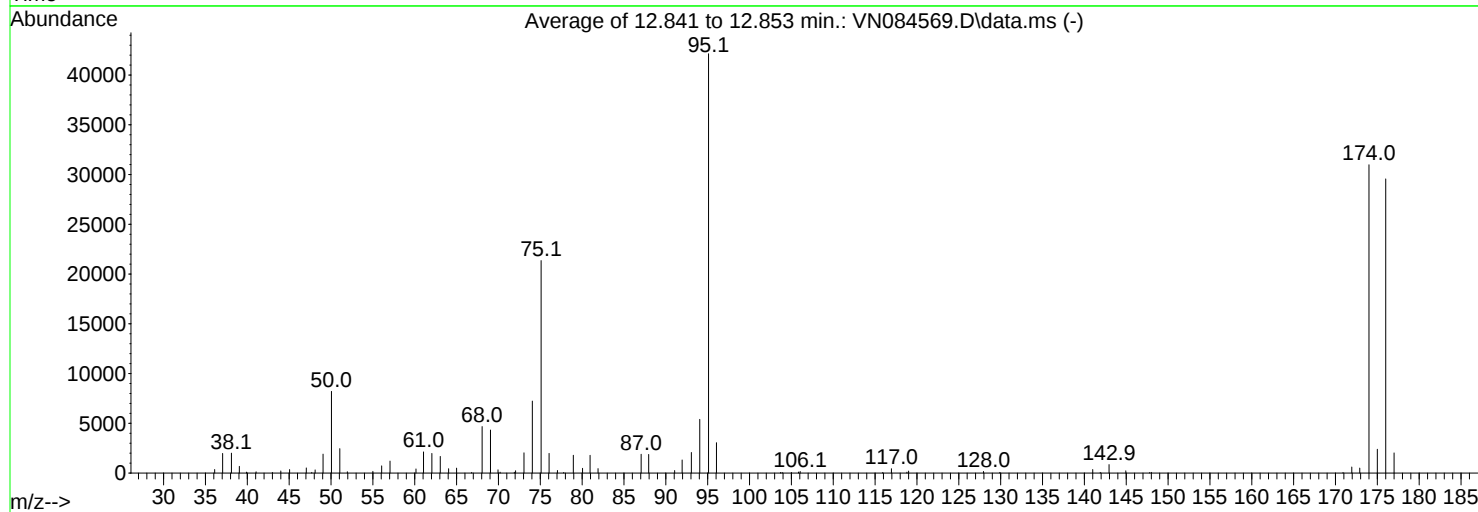
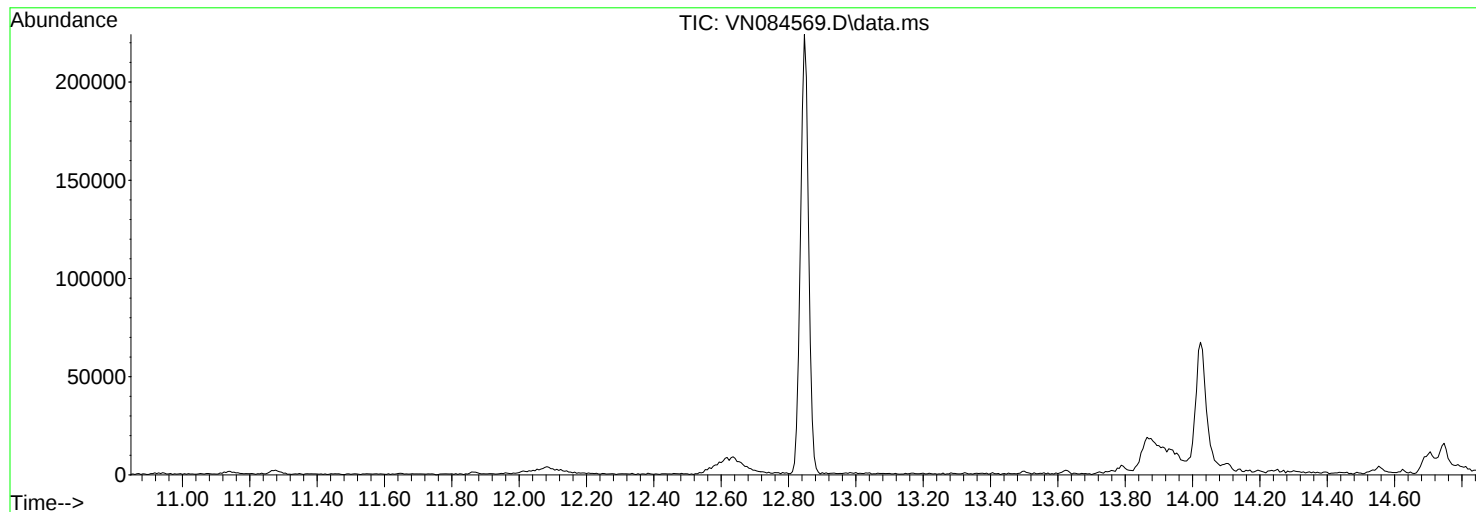
QC SAMPLE DATA

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

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	260
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

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

BFB

Modified:subtracted

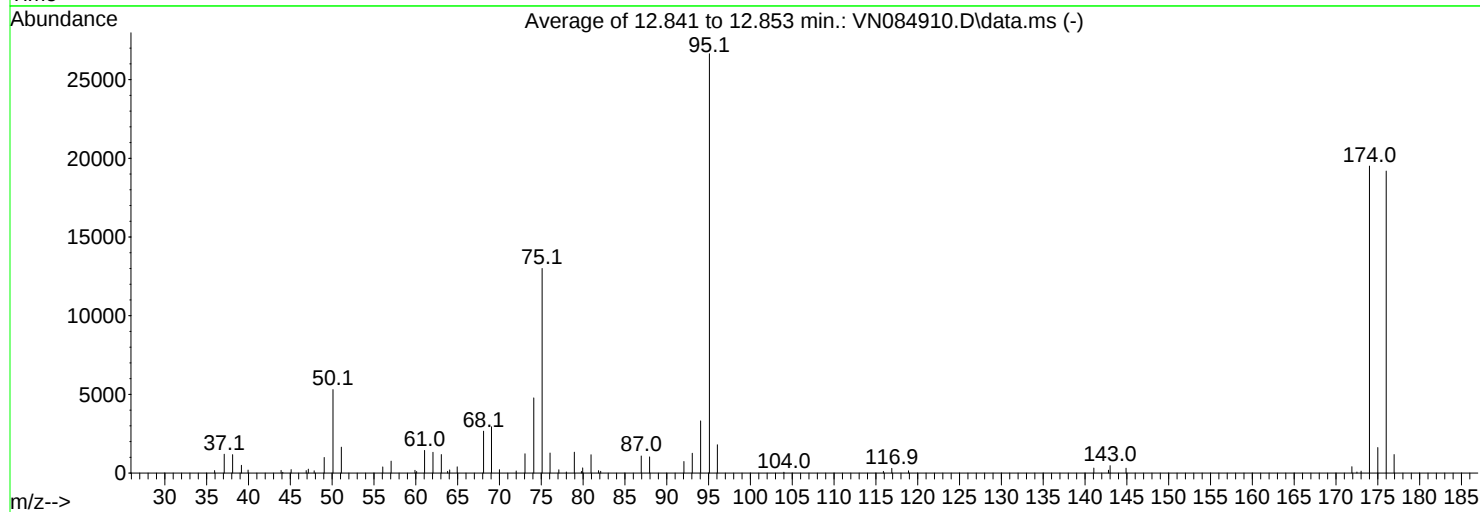
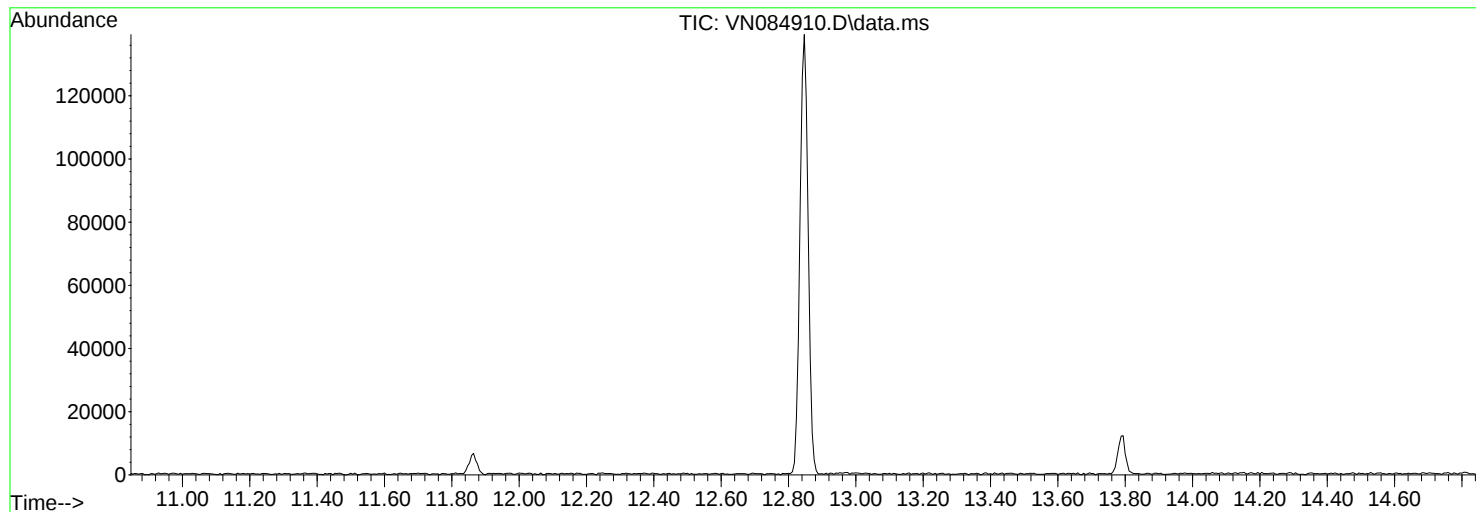
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	256	115.90	54	148.00	75		
91.95	1316	116.95	438	170.90	52		
93.05	2070	118.80	90	171.95	607		
94.05	5401	119.00	202	172.90	502		
95.10	42141	127.95	162	174.00	30984		
96.05	3053	129.90	69	175.00	2392		
103.70	65	141.00	358	176.00	29560		
103.90	65	141.90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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084910.D
Acq On : 18 Nov 2024 08:47
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	19.9	5305	PASS
75	95	30	60	48.8	13002	PASS
95	95	100	100	100.0	26645	PASS
96	95	5	9	6.8	1800	PASS
173	174	0.00	2	0.6	124	PASS
174	95	50	100	73.2	19507	PASS
175	174	5	9	8.3	1624	PASS
176	174	95	101	98.4	19189	PASS
177	176	5	9	6.1	1178	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	158	49.05	991	64.05	202	78.00	69
37.10	1200	50.10	5305	64.95	396	78.95	1328
38.10	1172	51.10	1647	68.10	2662	79.80	101
39.15	495	56.05	392	69.05	2940	79.95	329
39.95	191	57.05	760	70.00	216	80.95	1166
43.90	171	59.90	177	72.00	134	81.85	156
44.10	50	60.10	97	73.05	1225	82.10	113
45.10	223	61.05	1439	74.10	4775	86.95	1087
46.90	160	62.05	1320	75.10	13002	87.95	1029
47.15	251	63.05	1176	76.05	1275	92.05	735
47.85	145	63.80	111	77.10	212	93.05	1259

Average of 12.841 to 12.853 min.: VN084910.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	3316	171.90	407				
95.10	26645	172.50	68				
96.05	1800	173.00	124				
104.00	54	174.00	19507				
115.90	111	175.00	1624				
116.90	299	176.00	19189				
118.90	145	176.95	1178				
141.05	316						
142.80	184						
143.00	474						
144.90	309						

Instrument :

MSVOA_N

ClientSampleId :

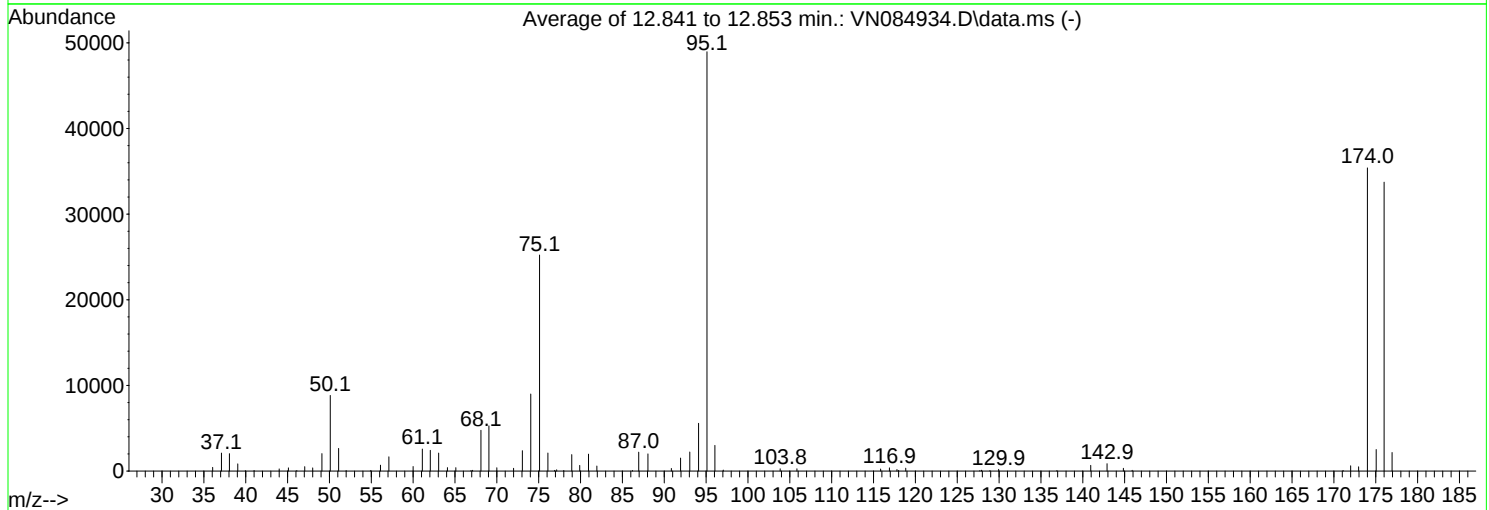
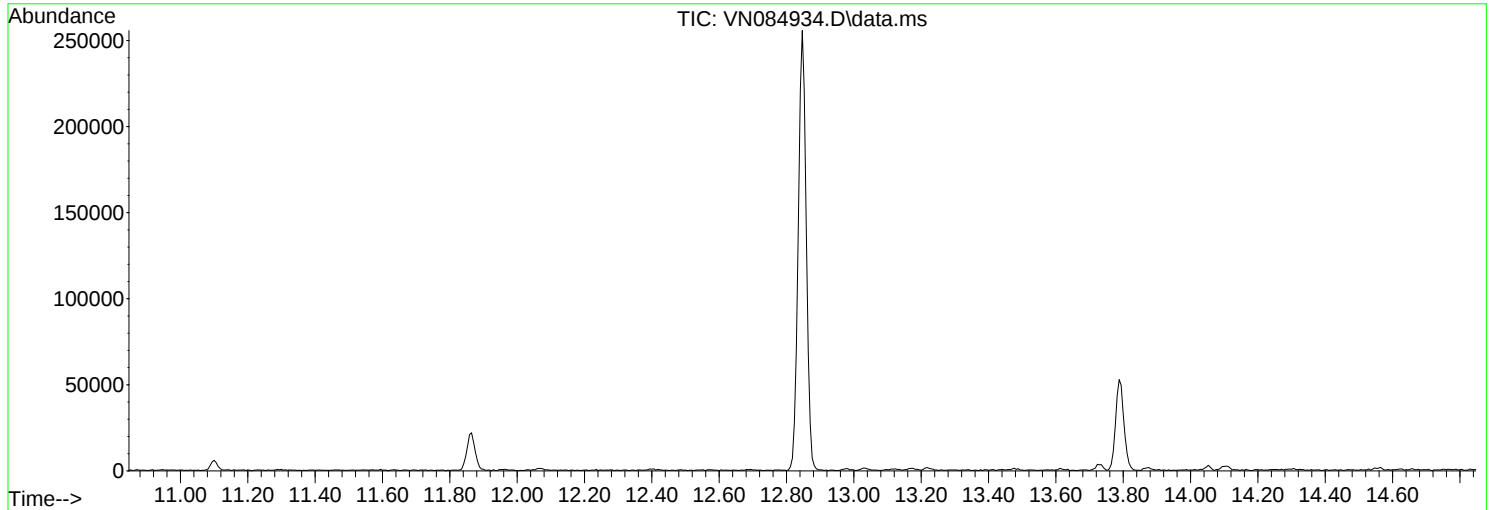
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
Data File : VN084934.D
Acq On : 19 Nov 2024 08:15
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	18.0	8832	PASS
75	95	30	60	51.5	25227	PASS
95	95	100	100	100.0	48965	PASS
96	95	5	9	6.1	2998	PASS
173	174	0.00	2	1.4	500	PASS
174	95	50	100	72.3	35400	PASS
175	174	5	9	7.1	2519	PASS
176	174	95	101	95.3	33736	PASS
177	176	5	9	6.4	2170	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	433	49.10	2042	64.10	404	76.10	2109
37.10	2102	50.10	8832	65.10	401	76.90	86
38.05	2032	51.10	2644	66.90	58	77.15	152
39.05	843	52.00	53	67.10	89	78.00	60
39.95	31	54.90	50	68.10	4763	78.95	1920
41.00	60	56.10	689	69.05	5279	79.90	665
44.00	250	57.10	1665	70.00	387	80.95	1977
45.10	378	60.00	535	72.00	329	81.95	588
46.10	63	61.10	2574	73.05	2385	86.20	67
47.05	518	62.05	2424	74.05	8997	86.95	2210
48.00	370	63.05	2101	75.10	25227	88.05	2008

Average of 12.841 to 12.853 min.: VN084934.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.85	306	117.80	185	145.90	93		
91.95	1519	118.00	73	171.10	72		
93.05	2226	118.85	339	172.00	619		
94.10	5576	127.70	61	172.95	500		
95.10	48965	127.90	102	174.00	35400		
96.05	2998	128.90	50	175.05	2519		
97.05	117	129.95	201	176.00	33736		
103.85	273	136.90	51	176.95	2170		
105.85	269	140.95	668				
115.85	241	142.90	866				
116.90	378	144.85	329				

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VN1118WBL01	SDG No.:	P4871
Lab Sample ID:	VN1118WBL01	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
VN084913.D	1		11/18/24 12:27	VN111824

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	52.4		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	45.7		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	176000	8.218			
540-36-3	1,4-Difluorobenzene	313000	9.1			
3114-55-4	Chlorobenzene-d5	269000	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\VN111824\
Data File : VN084913.D
Acq On : 18 Nov 2024 12:27
Operator : JC\MD
Sample : VN1118WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBL01

Quant Time: Nov 19 00:23:58 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	175680	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	312901	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	269131	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	114405	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	132908	52.379	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	104.760%	
35) Dibromofluoromethane	8.165	113	104958	49.556	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	99.120%	
50) Toluene-d8	10.565	98	356712	45.721	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	91.440%	
62) 4-Bromofluorobenzene	12.847	95	131717	45.173	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	90.340%	

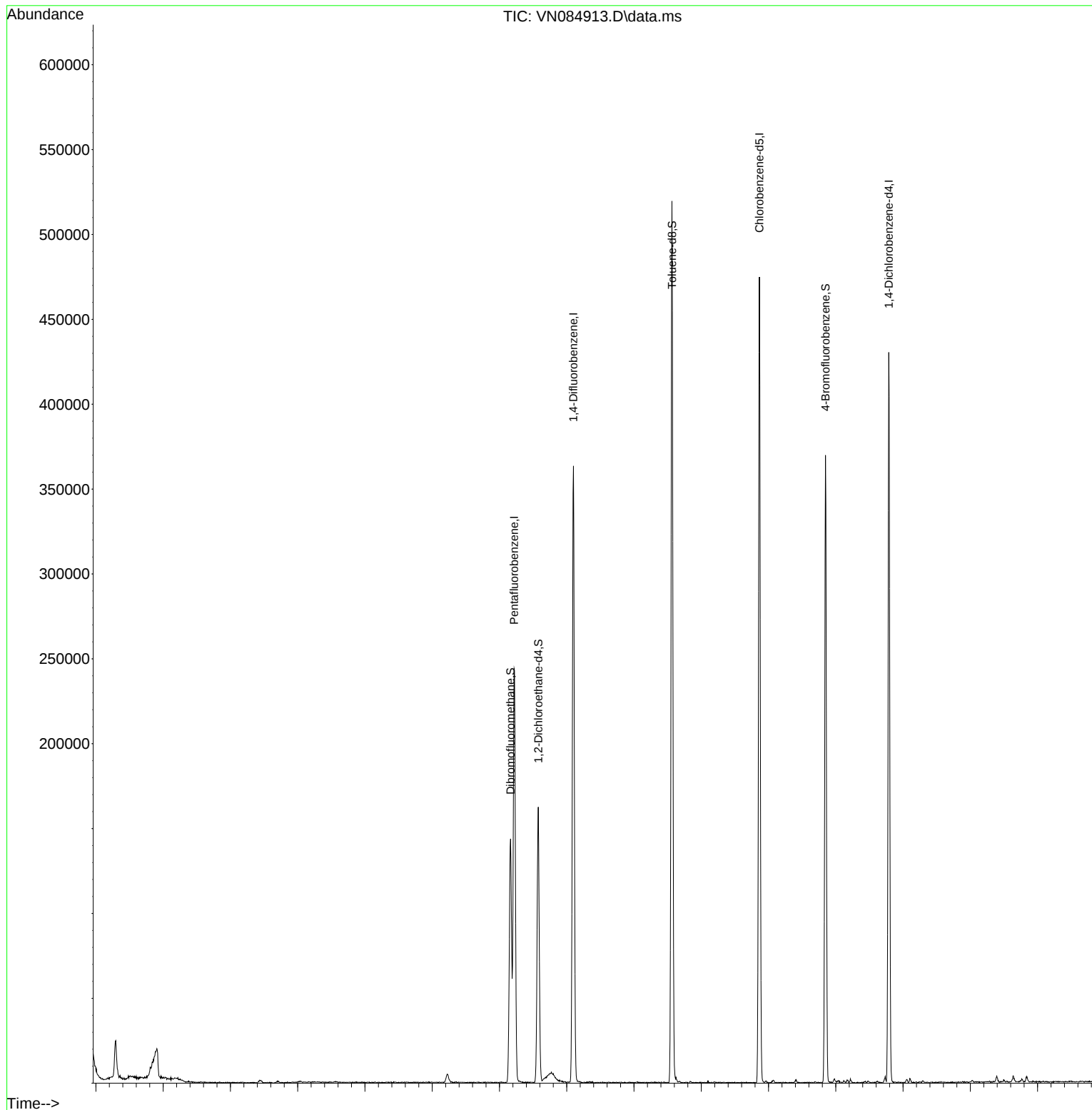
Target Compounds	Qvalue

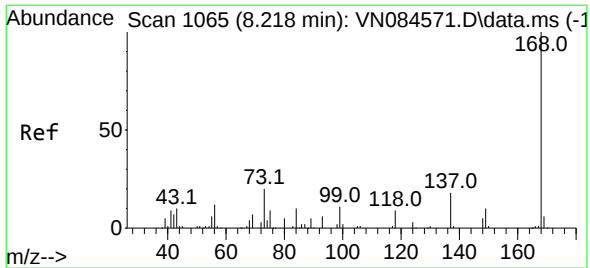
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084913.D
Acq On : 18 Nov 2024 12:27
Operator : JC\MD
Sample : VN1118WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBL01

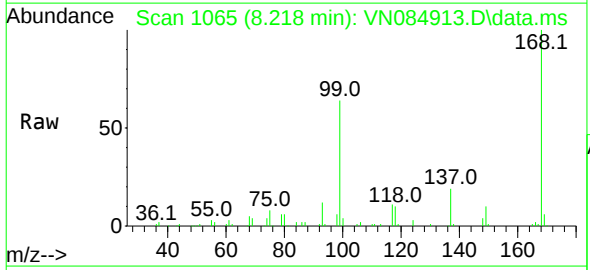
Quant Time: Nov 19 00:23:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



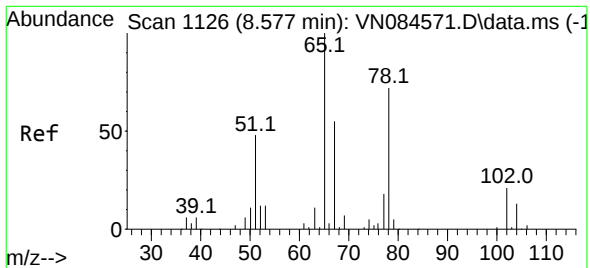
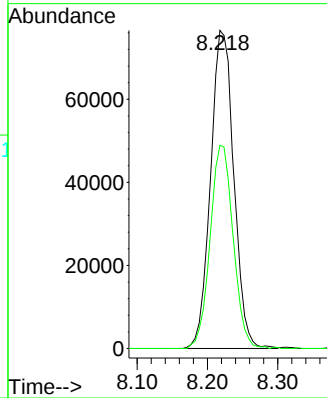
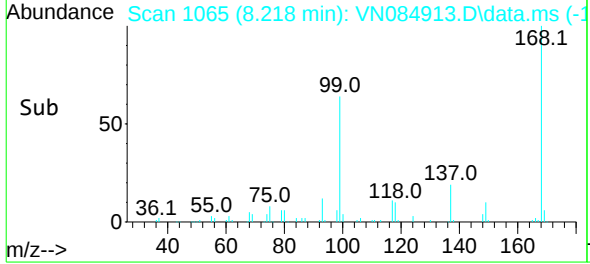


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084913.D
Acq: 18 Nov 2024 12:27

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBL01

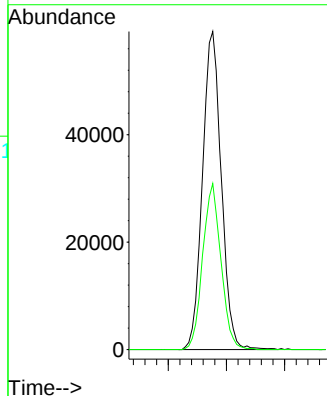
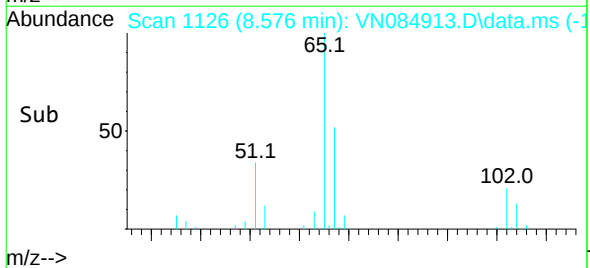
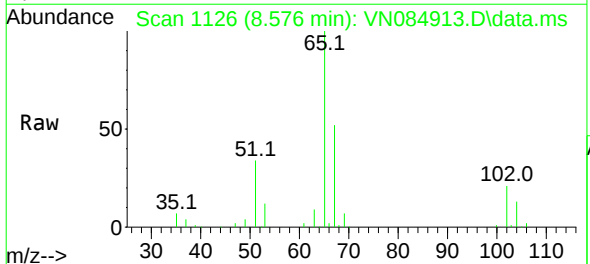


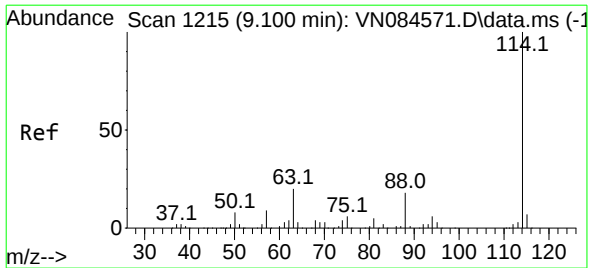
Tgt Ion:168 Resp: 175680
Ion Ratio Lower Upper
168 100
99 63.9 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 52.379 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.001 min
Lab File: VN084913.D
Acq: 18 Nov 2024 12:27

Tgt Ion: 65 Resp: 132908
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: VN084913.D

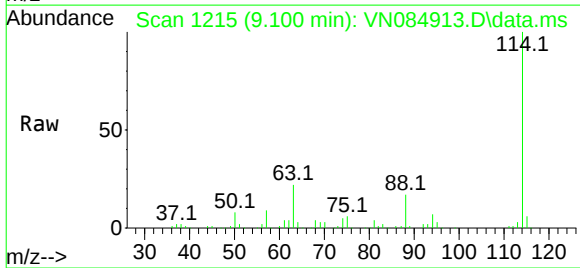
Acq: 18 Nov 2024 12:27

Instrument :

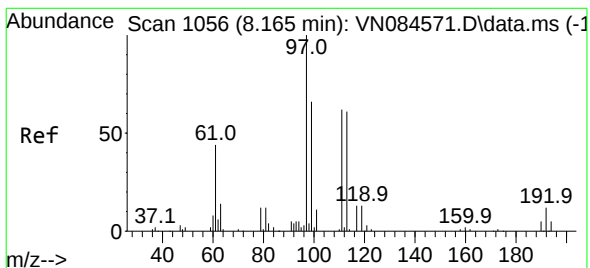
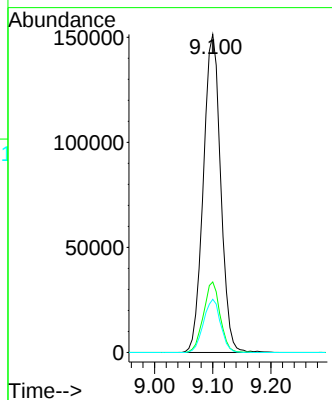
MSVOA_N

ClientSampleId :

VN1118WBL01



Tgt Ion:	114	Resp:	312901
Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	43.8
88	16.7	0.0	31.6



#35

Dibromofluoromethane

Concen: 49.556 ug/l

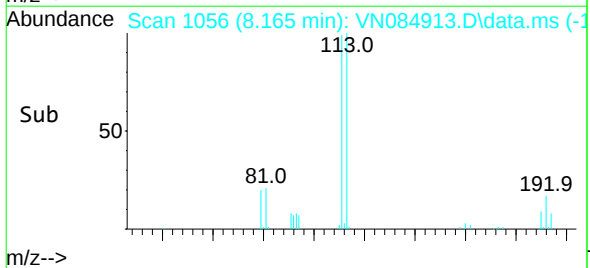
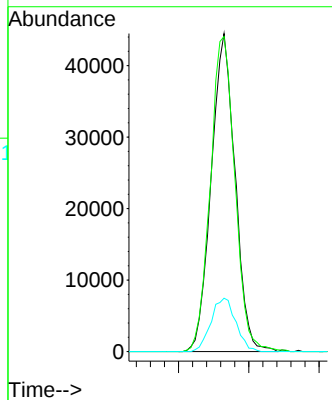
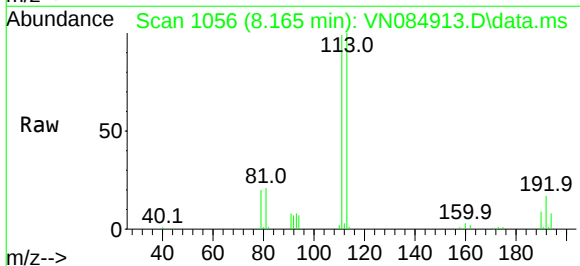
RT: 8.165 min Scan# 1056

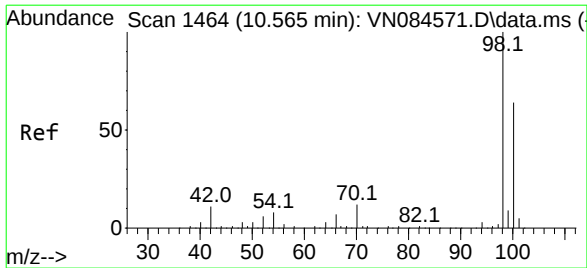
Delta R.T. -0.000 min

Lab File: VN084913.D

Acq: 18 Nov 2024 12:27

Tgt Ion:	113	Resp:	104958
Ion	Ratio	Lower	Upper
113	100		
111	102.1	83.3	124.9
192	17.5	13.5	20.3





#50

Toluene-d8

Concen: 45.721 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084913.D

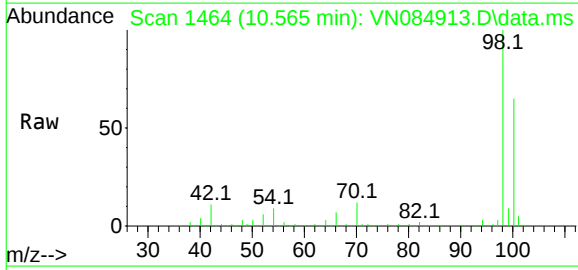
Acq: 18 Nov 2024 12:27

Instrument :

MSVOA_N

ClientSampleId :

VN1118WBL01

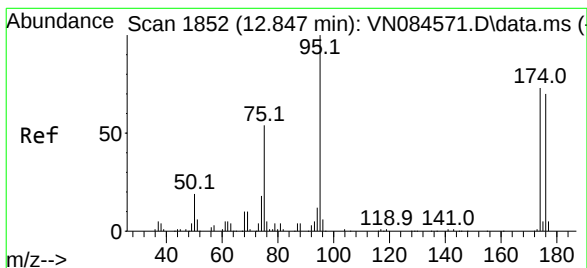
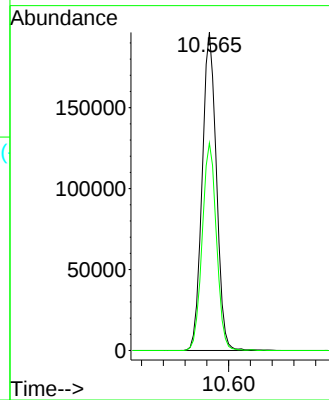
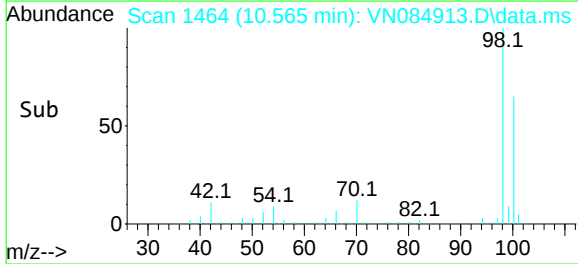


Tgt Ion: 98 Resp: 356712

Ion Ratio Lower Upper

98 100

100 65.2 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 45.173 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084913.D

Acq: 18 Nov 2024 12:27

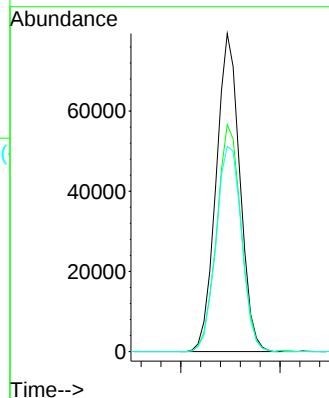
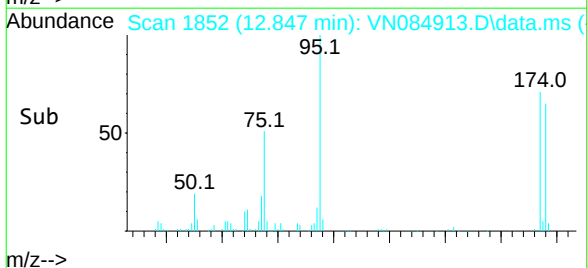
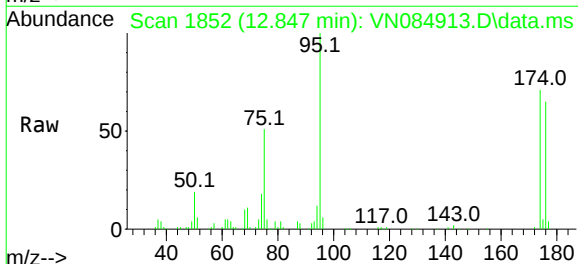
Tgt Ion: 95 Resp: 131717

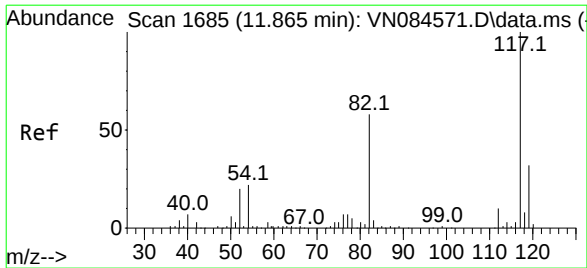
Ion Ratio Lower Upper

95 100

174 73.2 0.0 145.2

176 69.8 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: VN084913.D

Acq: 18 Nov 2024 12:27

Instrument :

MSVOA_N

ClientSampleId :

VN1118WBL01

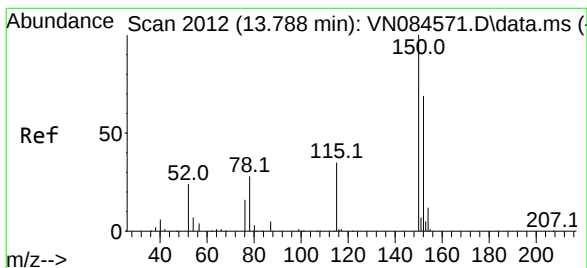
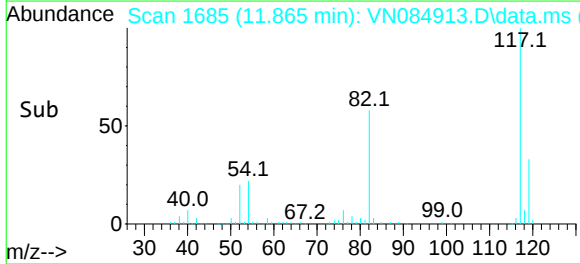
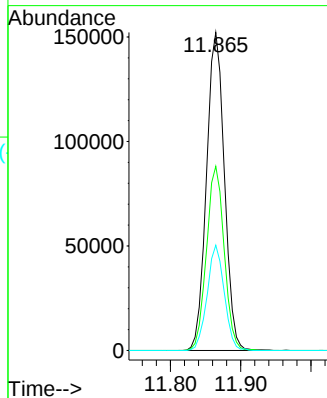
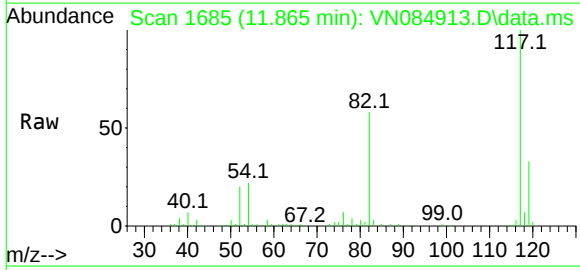
Tgt Ion:117 Resp: 269131

Ion Ratio Lower Upper

117 100

82 57.9 47.2 70.8

119 33.1 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: VN084913.D

Acq: 18 Nov 2024 12:27

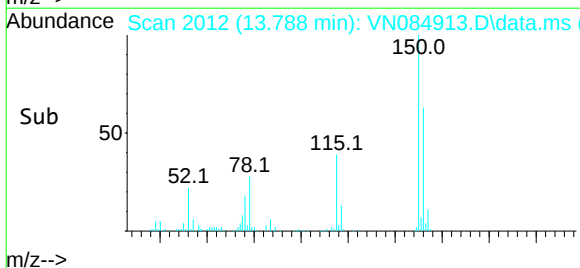
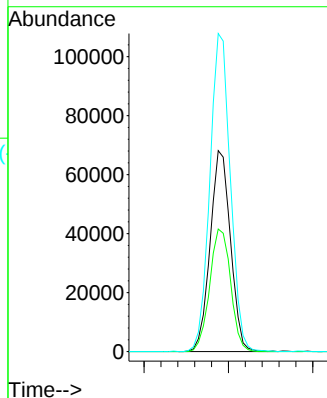
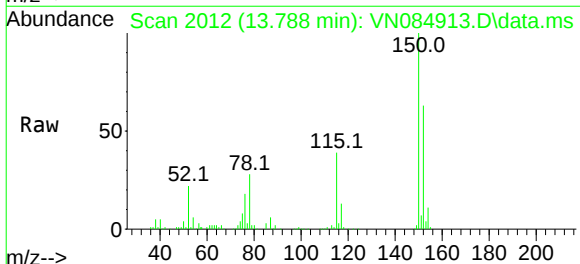
Tgt Ion:152 Resp: 114405

Ion Ratio Lower Upper

152 100

115 62.5 31.3 93.9

150 159.0 0.0 349.8



Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VN1119WBL01	SDG No.:	P4871
Lab Sample ID:	VN1119WBL01	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
VN084937.D	1		11/19/24 11:07	VN111924

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	51.3		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	46.5		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		77 - 121	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	194000	8.218			
540-36-3	1,4-Difluorobenzene	347000	9.1			
3114-55-4	Chlorobenzene-d5	301000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	128000	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\VN111924\
Data File : VN084937.D
Acq On : 19 Nov 2024 11:07
Operator : JC\MD
Sample : VN1119WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBL01

Quant Time: Nov 20 00:22:05 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	193589	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	346862	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	301411	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128229	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	143523	51.330	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	102.660%	
35) Dibromofluoromethane	8.159	113	113721	48.436	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	96.880%	
50) Toluene-d8	10.565	98	402345	46.521	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	93.040%	
62) 4-Bromofluorobenzene	12.847	95	148211	45.853	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	91.700%	

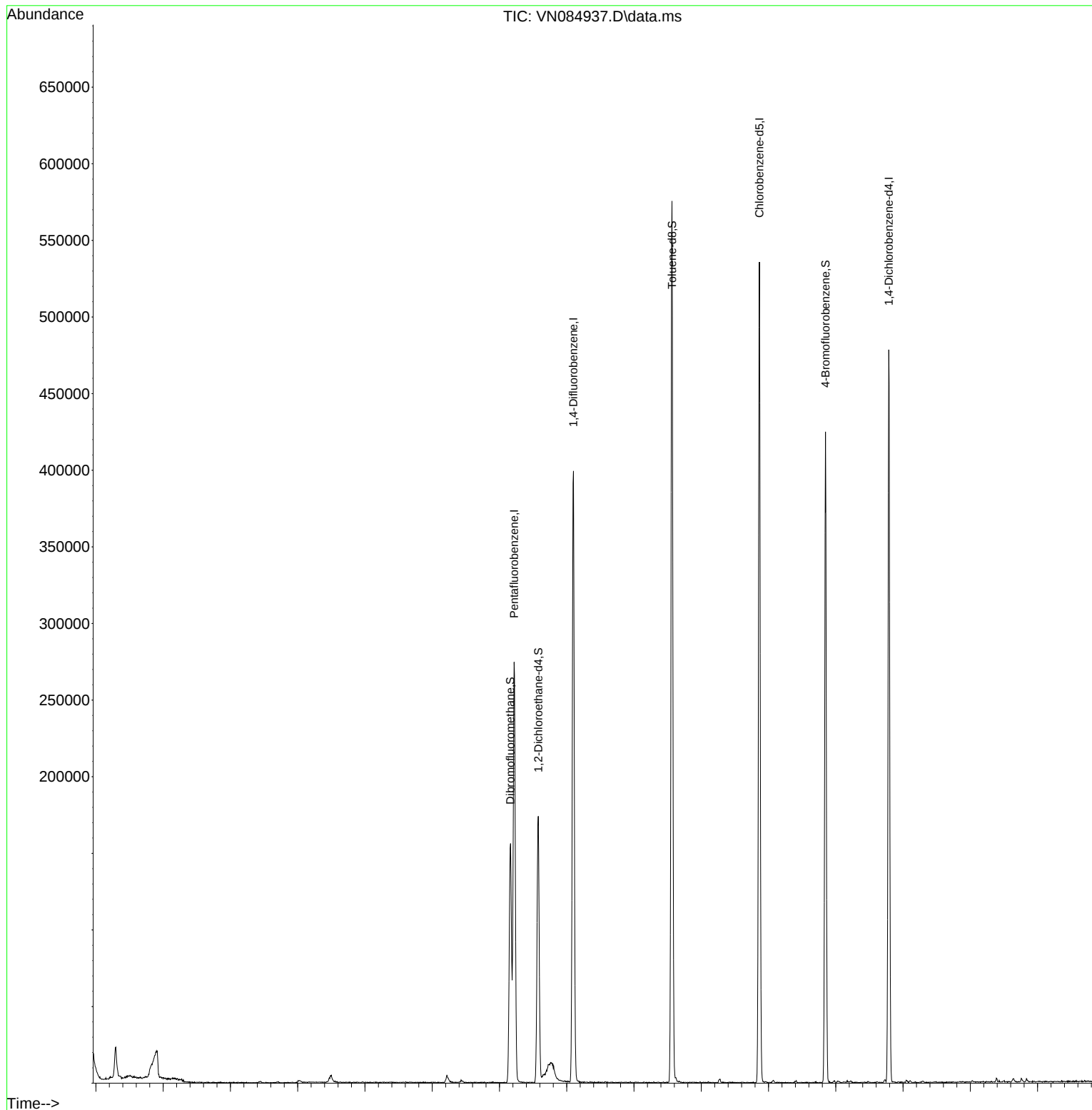
Target Compounds	Qvalue

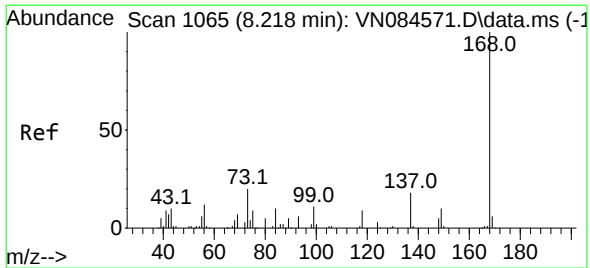
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
Data File : VN084937.D
Acq On : 19 Nov 2024 11:07
Operator : JC\MD
Sample : VN1119WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBL01

Quant Time: Nov 20 00:22:05 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

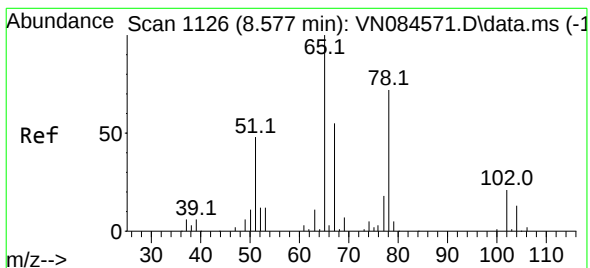
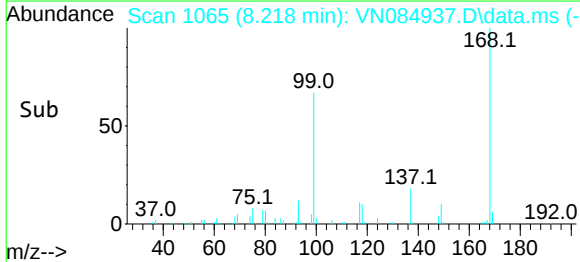
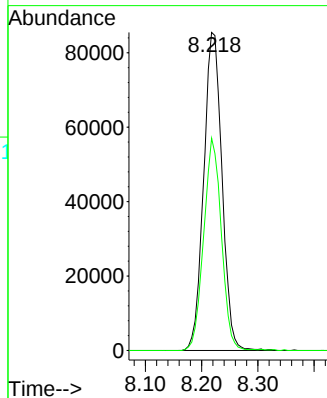
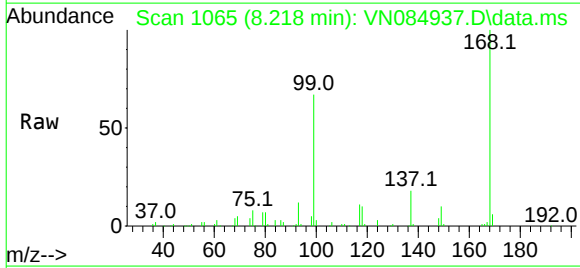




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084937.D
Acq: 19 Nov 2024 11:07

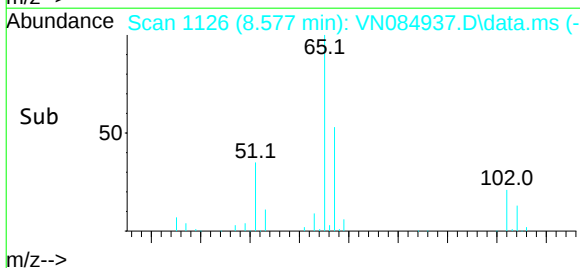
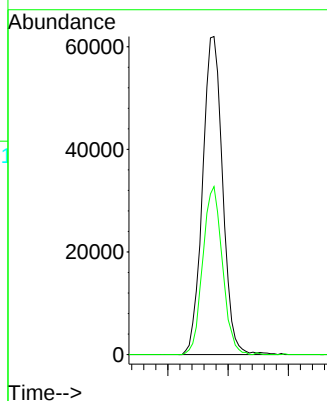
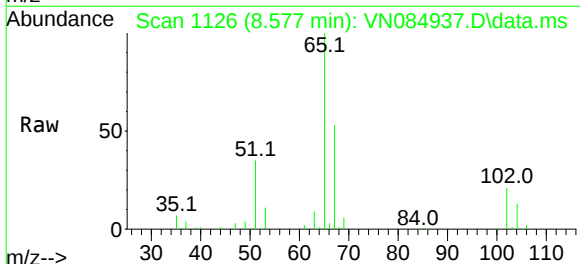
Instrument :
MSVOA_N
ClientSampleId :
VN1119WBL01

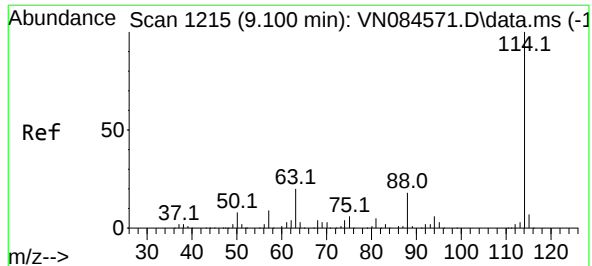
Tgt Ion:168 Resp: 193589
Ion Ratio Lower Upper
168 100
99 66.7 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 51.330 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084937.D
Acq: 19 Nov 2024 11:07

Tgt Ion: 65 Resp: 143523
Ion Ratio Lower Upper
65 100
67 51.5 0.0 102.0

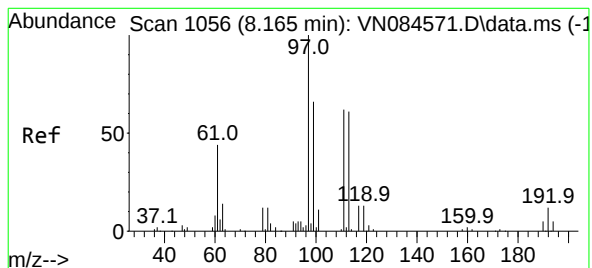
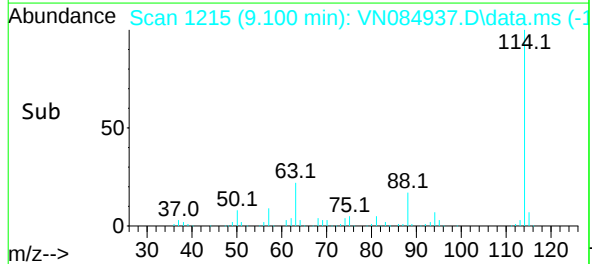
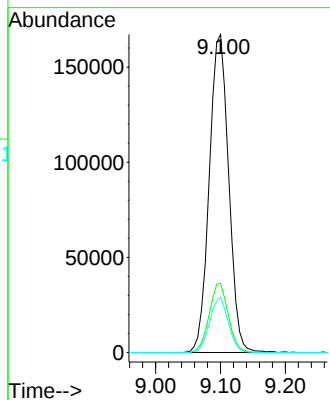
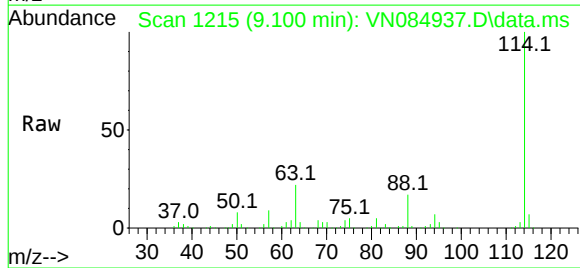




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084937.D
Acq: 19 Nov 2024 11:07

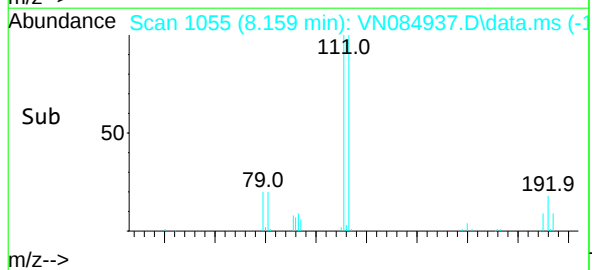
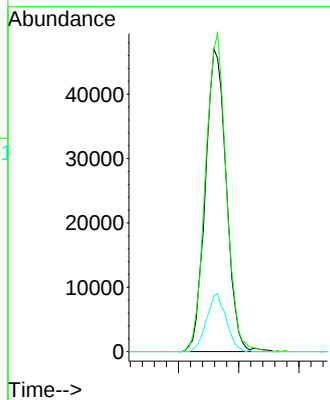
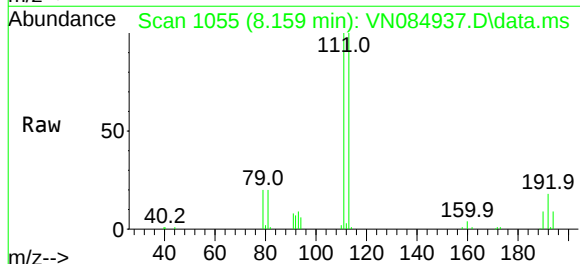
Instrument :
MSVOA_N
ClientSampleId :
VN1119WBL01

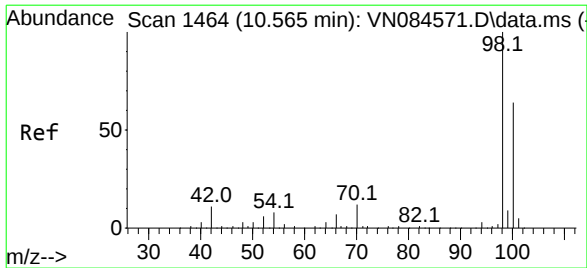
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.8
88	17.4	0.0	31.6



#35
Dibromofluoromethane
Concen: 48.436 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084937.D
Acq: 19 Nov 2024 11:07

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	83.3	124.9
192	18.0	13.5	20.3





#50

Toluene-d8

Concen: 46.521 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084937.D

Acq: 19 Nov 2024 11:07

Instrument :

MSVOA_N

ClientSampleId :

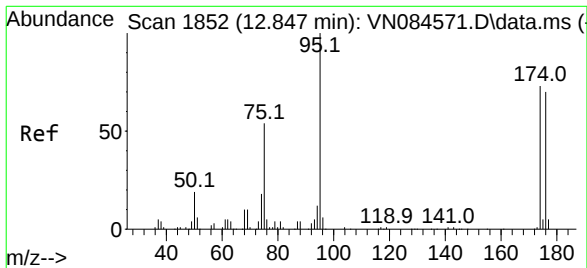
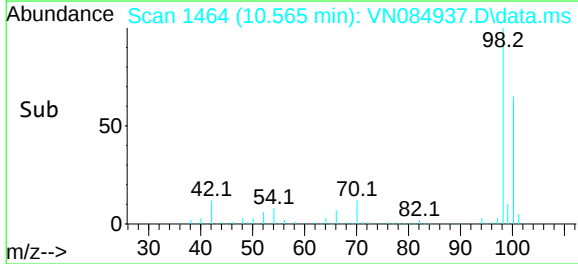
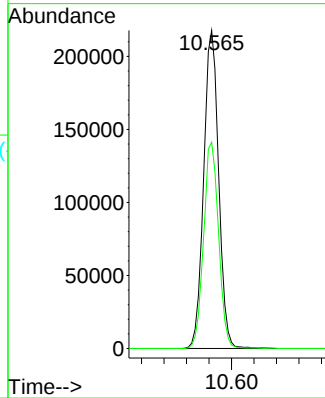
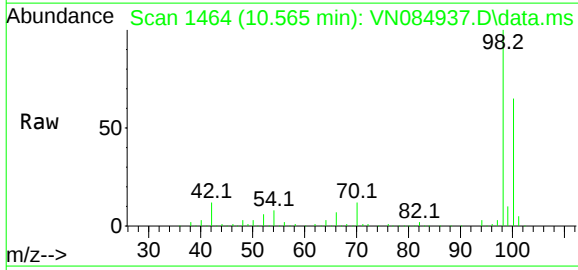
VN1119WBL01

Tgt Ion: 98 Resp: 402345

Ion Ratio Lower Upper

98 100

100 65.0 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 45.853 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084937.D

Acq: 19 Nov 2024 11:07

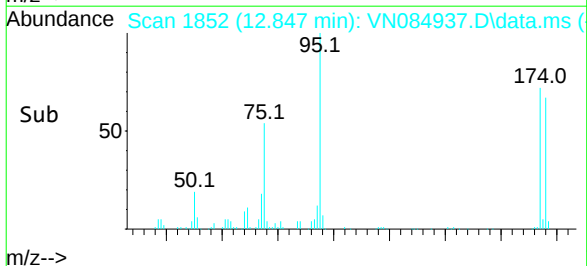
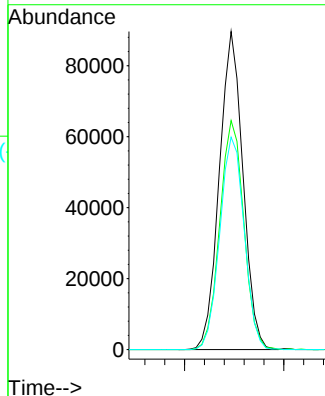
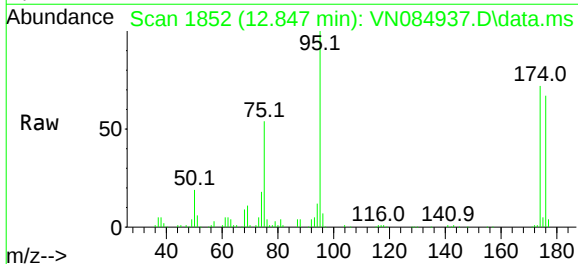
Tgt Ion: 95 Resp: 148211

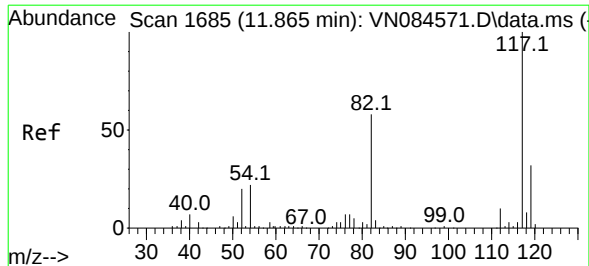
Ion Ratio Lower Upper

95 100

174 73.1 0.0 145.2

176 68.9 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: VN084937.D

Acq: 19 Nov 2024 11:07

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBL01

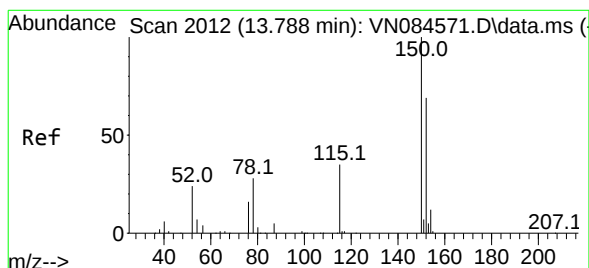
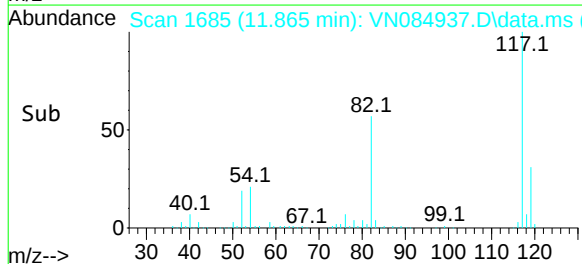
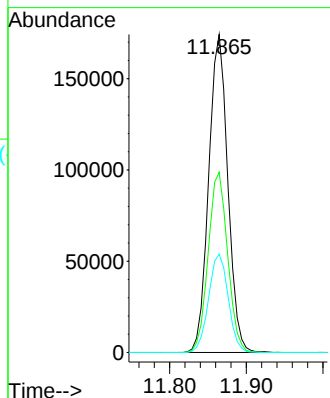
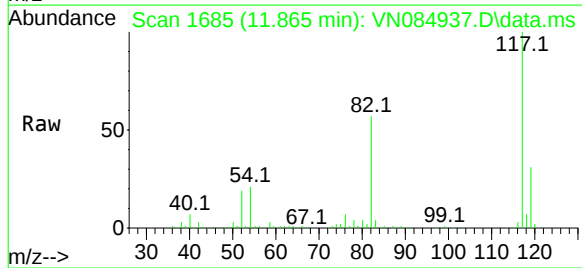
Tgt Ion:117 Resp: 301411

Ion Ratio Lower Upper

117 100

82 56.7 47.2 70.8

119 31.0 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: VN084937.D

Acq: 19 Nov 2024 11:07

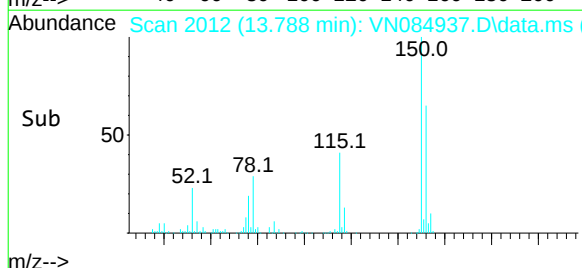
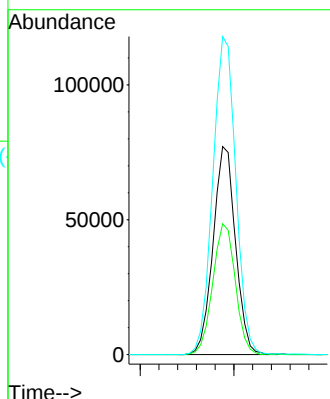
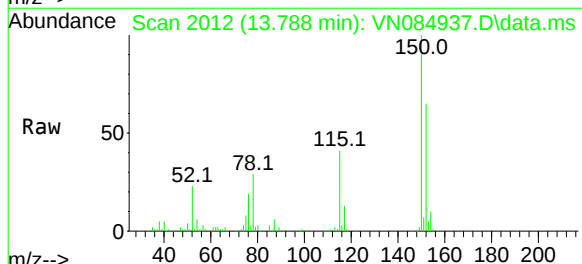
Tgt Ion:152 Resp: 128229

Ion Ratio Lower Upper

152 100

115 63.3 31.3 93.9

150 157.2 0.0 349.8





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

Report of Analysis

Client:	AECOM		Date Collected:		
Project:	Meeker Ave Plumes Superfund Site RI FS		Date Received:		
Client Sample ID:	VN1118WBS01		SDG No.:	P4871	
Lab Sample ID:	VN1118WBS01		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
VN084919.D	1		11/18/24 14:52	VN111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	20.6		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.9		0.26	1.00	ug/L
78-93-3	2-Butanone	120		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.6		0.25	1.00	ug/L
67-66-3	Chloroform	22.0		0.26	1.00	ug/L
71-43-2	Benzene	21.2		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.3		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	20.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.5		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		74 - 125	102%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	51.1		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.6		77 - 121	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	184000	8.224			
540-36-3	1,4-Difluorobenzene	316000	9.094			
3114-55-4	Chlorobenzene-d5	287000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	143000	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\VN111824\
 Data File : VN084919.D
 Acq On : 18 Nov 2024 14:52
 Operator : JC\MD
 Sample : VN1118WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1118WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/19/2024
 Supervised By : Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:26:20 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	184217	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	316400	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	286519	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143055	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	135870	51.065	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	102.140%
35) Dibromofluoromethane	8.165	113	110681	51.680	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.360%
50) Toluene-d8	10.565	98	402974	51.080	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.160%
62) 4-Bromofluorobenzene	12.847	95	166876	56.598	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	113.200%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.124	85	42121	19.890	ug/l 90
3) Chloromethane	2.359	50	47444	17.452	ug/l 98
4) Vinyl Chloride	2.512	62	46824	20.557	ug/l 97
5) Bromomethane	2.901	94	24102	19.972	ug/l 94
6) Chloroethane	3.077	64	31558	21.590	ug/l 100
7) Trichlorofluoromethane	3.471	101	80182	21.370	ug/l 94
8) Diethyl Ether	3.953	74	29207	22.067	ug/l 97
9) 1,1,2-Trichlorotrifluo...	4.359	101	45621	21.518	ug/l 98
10) Methyl Iodide	4.583	142	63057	22.254	ug/l 96
11) Tert butyl alcohol	5.542	59	36832	104.873	ug/l # 92
12) 1,1-Dichloroethene	4.324	96	43818	20.887	ug/l 96
13) Acrolein	4.177	56	29221	83.438	ug/l 98
14) Allyl chloride	5.018	41	74004	21.752	ug/l 93
15) Acrylonitrile	5.718	53	111576	109.740	ug/l 99
16) Acetone	4.430	43	90638	116.405	ug/l 98
17) Carbon Disulfide	4.700	76	115971	17.951	ug/l 97
18) Methyl Acetate	5.012	43	58892	18.458	ug/l 98
19) Methyl tert-butyl Ether	5.794	73	148772	23.137	ug/l 99
20) Methylene Chloride	5.271	84	50141	21.426	ug/l 94
21) trans-1,2-Dichloroethene	5.783	96	44573	20.692	ug/l 94
22) Diisopropyl ether	6.671	45	155190	22.957	ug/l 97
23) Vinyl Acetate	6.600	43	538631	115.539	ug/l 98
24) 1,1-Dichloroethane	6.565	63	87796	21.632	ug/l 99
25) 2-Butanone	7.483	43	145054	116.856	ug/l 99
26) 2,2-Dichloropropane	7.488	77	81900	23.185	ug/l 99
27) cis-1,2-Dichloroethene	7.483	96	55571	22.093	ug/l 99
28) Bromochloromethane	7.806	49	41663	25.765	ug/l 94
29) Tetrahydrofuran	7.835	42	93553	113.604	ug/l 97
30) Chloroform	7.965	83	90863	21.996	ug/l 97
31) Cyclohexane	8.253	56	77465	21.088	ug/l 99
32) 1,1,1-Trichloroethane	8.165	97	85105	22.635	ug/l 96
36) 1,1-Dichloropropene	8.371	75	62015	20.879	ug/l 99
37) Ethyl Acetate	7.559	43	61783	22.926	ug/l 99
38) Carbon Tetrachloride	8.353	117	71604	21.568	ug/l 95
39) Methylcyclohexane	9.600	83	68762	22.756	ug/l 97
40) Benzene	8.606	78	202210	21.199	ug/l 97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
 Data File : VN084919.D
 Acq On : 18 Nov 2024 14:52
 Operator : JC\MD
 Sample : VN1118WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1118WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/19/2024
 Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:26:20 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)
41) Methacrylonitrile	7.783	41	35079	24.206	ug/l	99
42) 1,2-Dichloroethane	8.665	62	67653	21.900	ug/l	99
43) Isopropyl Acetate	8.688	43	106413	20.811	ug/l	98
44) Trichloroethene	9.347	130	44723	20.330	ug/l	95
45) 1,2-Dichloropropane	9.618	63	49559	22.148	ug/l	95
46) Dibromomethane	9.706	93	34999	22.166	ug/l	98
47) Bromodichloromethane	9.888	83	72576	21.806	ug/l #	99
48) Methyl methacrylate	9.677	41	49516	23.609	ug/l	96
49) 1,4-Dioxane	9.700	88	17599	473.526	ug/l #	80
51) 4-Methyl-2-Pentanone	10.441	43	310382	120.819	ug/l	99
52) Toluene	10.629	92	127267	22.813	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	72850	21.146	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	79743	21.870	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	48782	23.214	ug/l	98
56) Ethyl methacrylate	10.871	69	77810	25.599	ug/l	96
57) 1,3-Dichloropropane	11.165	76	83513	23.156	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	147900	103.983	ug/l	98
59) 2-Hexanone	11.194	43	237409	126.962	ug/l	100
60) Dibromochloromethane	11.359	129	53979	22.538	ug/l	99
61) 1,2-Dibromoethane	11.471	107	47442	22.046	ug/l	99
64) Tetrachloroethene	11.100	164	38917	20.420	ug/l	99
65) Chlorobenzene	11.888	112	137913	21.515	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	50033	22.441	ug/l	96
67) Ethyl Benzene	11.959	91	243830	22.789	ug/l	99
68) m/p-Xylenes	12.070	106	182998	45.177	ug/l	100
69) o-Xylene	12.394	106	93162	24.585	ug/l	97
70) Styrene	12.412	104	152817	23.118	ug/l	99
71) Bromoform	12.576	173	36555	21.789	ug/l #	98
73) Isopropylbenzene	12.694	105	231596	23.102	ug/l	99
74) N-amyl acetate	12.494	43	97530	22.858	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	68716	20.536	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	58978m	20.625	ug/l	
77) Bromobenzene	12.976	156	55291	20.516	ug/l	96
78) n-propylbenzene	13.035	91	267365	22.759	ug/l	97
79) 2-Chlorotoluene	13.123	91	172382	22.457	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	197081	23.719	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	25030	20.766	ug/l	98
82) 4-Chlorotoluene	13.217	91	168657	20.878	ug/l	98
83) tert-Butylbenzene	13.435	119	174830	25.424	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	201379	23.483	ug/l	98
85) sec-Butylbenzene	13.612	105	233308	24.019	ug/l	99
86) p-Isopropyltoluene	13.729	119	199253	25.012	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	101999	19.393	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	100169	20.077	ug/l	100
89) n-Butylbenzene	14.053	91	171934	23.073	ug/l	99
90) Hexachloroethane	14.335	117	35291	19.865	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	101580	20.099	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	13208	19.484	ug/l	89
93) 1,2,4-Trichlorobenzene	15.388	180	52915	19.128	ug/l	97
94) Hexachlorobutadiene	15.500	225	24159	19.887	ug/l	99
95) Naphthalene	15.635	128	181901	21.968	ug/l #	97
96) 1,2,3-Trichlorobenzene	15.841	180	52253	19.459	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084919.D
Acq On : 18 Nov 2024 14:52
Operator : JC\MD
Sample : VN1118WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:26:20 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

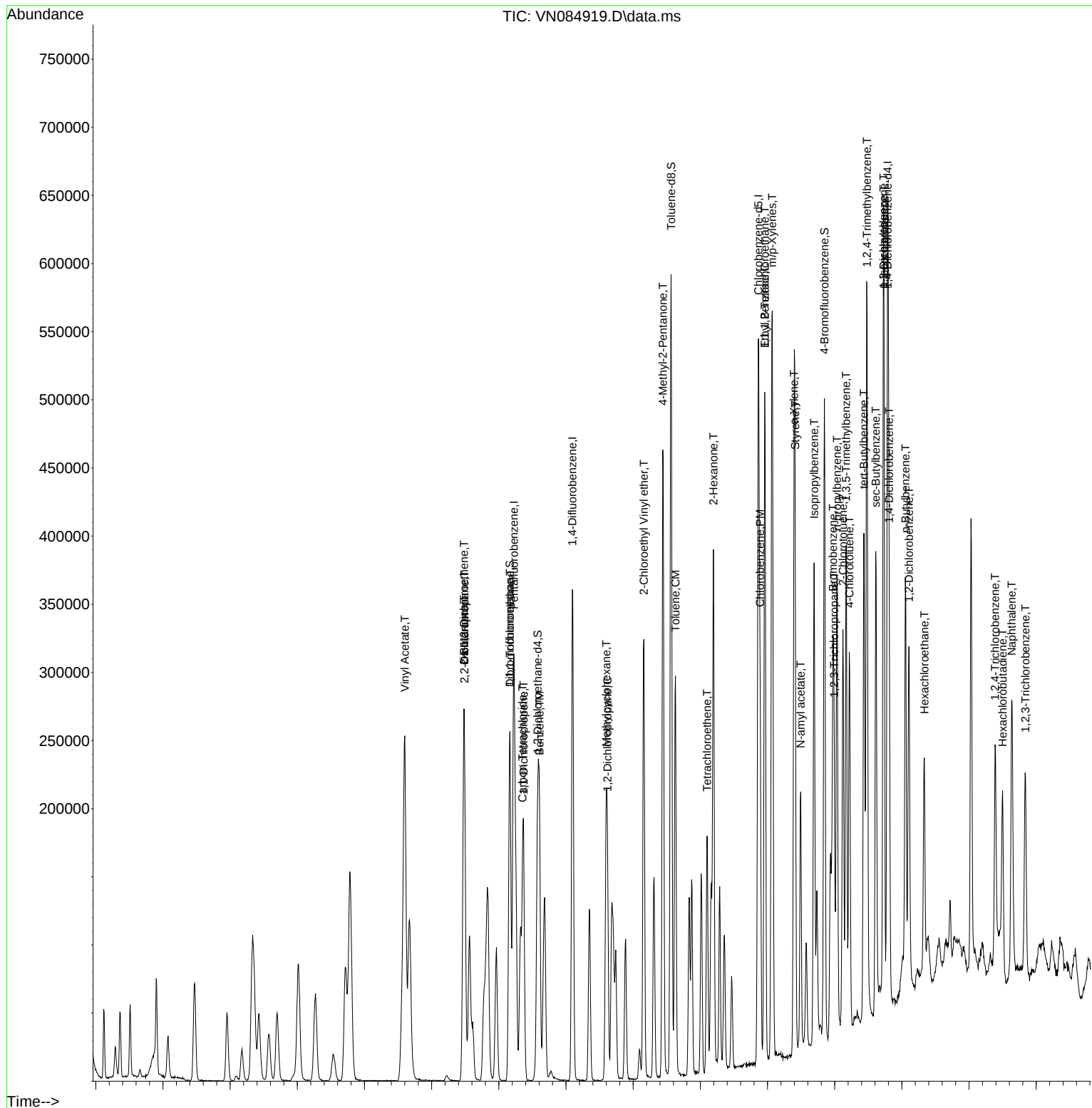
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\  
Data File : VN084919.D  
Acq On    : 18 Nov 2024  14:52  
Operator  : JC\MD  
Sample    : VN1118WBS01  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 12   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:26:20 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



Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VN1119WBS01	SDG No.:	P4871
Lab Sample ID:	VN1119WBS01	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
VN084938.D	1		11/19/24 11:40	VN111924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	19.4		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.9		0.26	1.00	ug/L
78-93-3	2-Butanone	120		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	1.00	ug/L
67-66-3	Chloroform	20.7		0.26	1.00	ug/L
71-43-2	Benzene	19.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.1		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	18.9		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.8		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	46.5		75 - 124	93%	SPK: 50
2037-26-5	Toluene-d8	45.6		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		77 - 121	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	8.218			
540-36-3	1,4-Difluorobenzene	287000	9.1			
3114-55-4	Chlorobenzene-d5	253000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	131000	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\VN111924\
 Data File : VN084938.D
 Acq On : 19 Nov 2024 11:40
 Operator : JC\MD
 Sample : VN1119WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/20/2024
 Supervised By : Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 00:22:40 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	167364	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	286809	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	252679	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131165	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	115474	47.770	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.540%
35) Dibromofluoromethane	8.165	113	90242	46.484	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	92.960%
50) Toluene-d8	10.565	98	325946	45.579	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.160%
62) 4-Bromofluorobenzene	12.847	95	128829	48.202	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.118	85	36130	18.779	ug/l	98
3) Chloromethane	2.360	50	41727	16.810	ug/l	97
4) Vinyl Chloride	2.512	62	40114	19.385	ug/l	99
5) Bromomethane	2.901	94	20586	18.776	ug/l	98
6) Chloroethane	3.065	64	26614	19.938	ug/l	96
7) Trichlorofluoromethane	3.465	101	67356	19.759	ug/l	98
8) Diethyl Ether	3.954	74	25064	20.843	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.348	101	39960	20.746	ug/l	96
10) Methyl Iodide	4.571	142	51608	20.047	ug/l	99
11) Tert butyl alcohol	5.536	59	37827	118.551	ug/l	96
12) 1,1-Dichloroethene	4.324	96	36073	18.927	ug/l	93
13) Acrolein	4.171	56	39136	123.002	ug/l	96
14) Allyl chloride	5.012	41	60147	19.459	ug/l	94
15) Acrylonitrile	5.712	53	100056	108.319	ug/l	99
16) Acetone	4.430	43	81687	115.450	ug/l	99
17) Carbon Disulfide	4.695	76	95480	16.267	ug/l	98
18) Methyl Acetate	5.018	43	53894	18.624	ug/l	98
19) Methyl tert-butyl Ether	5.795	73	122075	20.897	ug/l	98
20) Methylene Chloride	5.265	84	40989	19.279	ug/l	94
21) trans-1,2-Dichloroethene	5.771	96	37116	18.965	ug/l	90
22) Diisopropyl ether	6.665	45	130755	21.290	ug/l	97
23) Vinyl Acetate	6.595	43	447227	105.593	ug/l	99
24) 1,1-Dichloroethane	6.565	63	74117	20.100	ug/l #	96
25) 2-Butanone	7.483	43	131314	116.439	ug/l	96
26) 2,2-Dichloropropane	7.483	77	68443	21.326	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	44729	19.574	ug/l	98
28) Bromochloromethane	7.812	49	34242	23.308	ug/l	99
29) Tetrahydrofuran	7.836	42	79498	106.257	ug/l	94
30) Chloroform	7.959	83	77863	20.747	ug/l	99
31) Cyclohexane	8.253	56	63583	19.052	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	70342	20.592	ug/l	98
36) 1,1-Dichloropropene	8.365	75	51548	19.146	ug/l	98
37) Ethyl Acetate	7.559	43	51933	21.260	ug/l #	94
38) Carbon Tetrachloride	8.359	117	58554	19.457	ug/l	93
39) Methylcyclohexane	9.600	83	53483	19.526	ug/l	97
40) Benzene	8.600	78	166743	19.284	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
 Data File : VN084938.D
 Acq On : 19 Nov 2024 11:40
 Operator : JC\MD
 Sample : VN1119WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/20/2024
 Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 00:22:40 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)
41) Methacrylonitrile	7.771	41	28323	21.561	ug/l	93
42) 1,2-Dichloroethane	8.665	62	59066	21.093	ug/l	100
43) Isopropyl Acetate	8.688	43	100867	21.807	ug/l	98
44) Trichloroethene	9.347	130	37236	18.673	ug/l	95
45) 1,2-Dichloropropane	9.618	63	40398	19.917	ug/l	93
46) Dibromomethane	9.706	93	28390	19.836	ug/l	96
47) Bromodichloromethane	9.883	83	60687	20.115	ug/l	99
48) Methyl methacrylate	9.683	41	40746	21.432	ug/l	98
49) 1,4-Dioxane	9.694	88	15027	446.038	ug/l #	80
51) 4-Methyl-2-Pentanone	10.441	43	266202	114.312	ug/l	100
52) Toluene	10.630	92	104204	20.606	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	58885	18.856	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	65422	19.793	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	39586	20.781	ug/l	96
56) Ethyl methacrylate	10.871	69	59364	21.545	ug/l	97
57) 1,3-Dichloropropane	11.159	76	67357	20.603	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	139905	108.511	ug/l	97
59) 2-Hexanone	11.194	43	199980	117.979	ug/l	100
60) Dibromochloromethane	11.359	129	43514	20.043	ug/l	95
61) 1,2-Dibromoethane	11.465	107	38886	19.935	ug/l	96
64) Tetrachloroethene	11.100	164	32191	19.153	ug/l	97
65) Chlorobenzene	11.888	112	107058	18.939	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	39898	20.291	ug/l	97
67) Ethyl Benzene	11.965	91	183422	19.439	ug/l	99
68) m/p-Xylenes	12.071	106	143310	40.117	ug/l	100
69) o-Xylene	12.400	106	68863	20.606	ug/l	99
70) Styrene	12.412	104	113129	19.406	ug/l	99
71) Bromoform	12.576	173	30101	20.345	ug/l #	100
73) Isopropylbenzene	12.694	105	173994	18.929	ug/l	100
74) N-ethyl acetate	12.494	43	74637	19.078	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	58779	19.158	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	49539m	18.894	ug/l	
77) Bromobenzene	12.976	156	43232	17.496	ug/l	97
78) n-propylbenzene	13.035	91	199093	18.484	ug/l	100
79) 2-Chlorotoluene	13.124	91	132044	18.762	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	148018	19.429	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	19909	18.014	ug/l	99
82) 4-Chlorotoluene	13.218	91	129851	17.532	ug/l	98
83) tert-Butylbenzene	13.435	119	120889	19.173	ug/l	95
84) 1,2,4-Trimethylbenzene	13.482	105	149905	19.065	ug/l	98
85) sec-Butylbenzene	13.612	105	169384	19.019	ug/l	99
86) p-Isopropyltoluene	13.729	119	140547	19.242	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	80412	16.675	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	80399	17.455	ug/l	99
89) n-Butylbenzene	14.053	91	115610	16.921	ug/l	99
90) Hexachloroethane	14.335	117	27883	17.118	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	78540	16.949	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	11687	18.803	ug/l	93
93) 1,2,4-Trichlorobenzene	15.388	180	38073	15.011	ug/l	100
94) Hexachlorobutadiene	15.494	225	17984	16.146	ug/l	99
95) Naphthalene	15.641	128	117873	15.526	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	36396	14.782	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
Data File : VN084938.D
Acq On : 19 Nov 2024 11:40
Operator : JC\MD
Sample : VN1119WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 00:22:40 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)

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

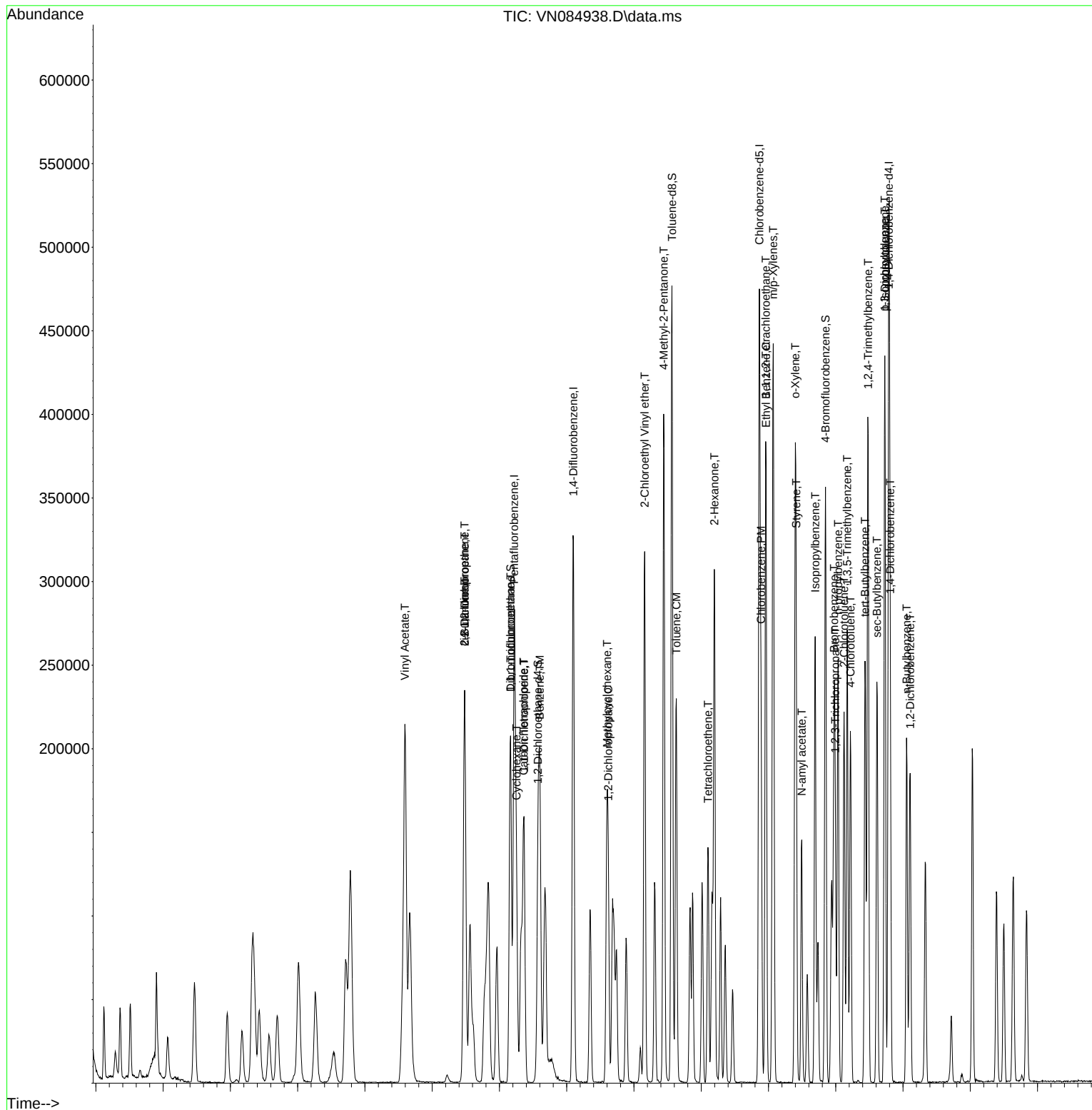
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
Data File : VN084938.D
Acq On : 19 Nov 2024 11:40
Operator : JC\MD
Sample : VN1119WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 11/20/2024
Supervised By :Mahesh Dadoda 11/20/2024

Quant Time: Nov 20 00:22:40 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



Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VN1118WBSD01	SDG No.:	P4871
Lab Sample ID:	VN1118WBSD01	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
VN084923.D	1		11/18/24 16:28	VN111824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.2		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.26	1.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.25	1.00	ug/L
67-66-3	Chloroform	19.0		0.26	1.00	ug/L
71-43-2	Benzene	17.9		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.5		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	17.1		0.25	1.00	ug/L
108-90-7	Chlorobenzene	17.7		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	47.3		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	46.1		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	187000	8.218			
540-36-3	1,4-Difluorobenzene	326000	9.1			
3114-55-4	Chlorobenzene-d5	290000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	145000	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\VN111824\
 Data File : VN084923.D
 Acq On : 18 Nov 2024 16:28
 Operator : JC\MD
 Sample : VN1118WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1118WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/19/2024
 Supervised By : Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:29:28 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	187181	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	326112	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	290218	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	145074	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	129063	47.739	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.480%
35) Dibromofluoromethane	8.165	113	104415	47.303	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.600%
50) Toluene-d8	10.565	98	374741	46.086	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.180%
62) 4-Bromofluorobenzene	12.847	95	151304	49.789	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.580%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	37472	17.414	ug/l	94
3) Chloromethane	2.359	50	42149	14.925	ug/l	99
4) Vinyl Chloride	2.512	62	42163	18.218	ug/l	98
5) Bromomethane	2.901	94	20936	17.073	ug/l	97
6) Chloroethane	3.065	64	26707	17.742	ug/l	97
7) Trichlorofluoromethane	3.471	101	70321	18.445	ug/l	99
8) Diethyl Ether	3.954	74	26468	19.681	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.353	101	40137	18.632	ug/l	98
10) Methyl Iodide	4.577	142	54625	18.973	ug/l	99
11) Tert butyl alcohol	5.536	59	32341	90.627	ug/l	99
12) 1,1-Dichloroethene	4.330	96	38539	18.080	ug/l	97
13) Acrolein	4.177	56	30647	86.124	ug/l	99
14) Allyl chloride	5.018	41	64715	18.720	ug/l	94
15) Acrylonitrile	5.718	53	95898	92.827	ug/l	99
16) Acetone	4.424	43	81440	102.602	ug/l	97
17) Carbon Disulfide	4.701	76	99630	15.177	ug/l	98
18) Methyl Acetate	5.024	43	53052	15.872	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	130619	19.992	ug/l	99
20) Methylene Chloride	5.271	84	43518	18.302	ug/l	85
21) trans-1,2-Dichloroethene	5.777	96	38290	17.494	ug/l	89
22) Diisopropyl ether	6.665	45	135287	19.695	ug/l	97
23) Vinyl Acetate	6.600	43	477387	100.780	ug/l	100
24) 1,1-Dichloroethane	6.559	63	78396	19.010	ug/l	98
25) 2-Butanone	7.483	43	126423	100.234	ug/l	100
26) 2,2-Dichloropropane	7.483	77	70505	19.643	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	48067	18.807	ug/l	98
28) Bromochloromethane	7.812	49	33469	20.370	ug/l	98
29) Tetrahydrofuran	7.841	42	79703	95.253	ug/l	98
30) Chloroform	7.965	83	79646	18.975	ug/l	97
31) Cyclohexane	8.253	56	69104	18.514	ug/l	92
32) 1,1,1-Trichloroethane	8.165	97	74270	19.440	ug/l	92
36) 1,1-Dichloropropene	8.365	75	52608	17.184	ug/l	96
37) Ethyl Acetate	7.559	43	52353	18.849	ug/l	97
38) Carbon Tetrachloride	8.359	117	63324	18.506	ug/l	95
39) Methylcyclohexane	9.600	83	58539	18.796	ug/l	98
40) Benzene	8.606	78	175539	17.855	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
 Data File : VN084923.D
 Acq On : 18 Nov 2024 16:28
 Operator : JC\MD
 Sample : VN1118WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1118WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/19/2024
 Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:29:28 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)
41) Methacrylonitrile	7.777	41	29404	19.686	ug/l	98
42) 1,2-Dichloroethane	8.671	62	59188	18.589	ug/l	97
43) Isopropyl Acetate	8.688	43	129839	24.817	ug/l #	90
44) Trichloroethene	9.347	130	39583	17.458	ug/l	100
45) 1,2-Dichloropropane	9.624	63	43179	18.722	ug/l	98
46) Dibromomethane	9.706	93	30267	18.599	ug/l	98
47) Bromodichloromethane	9.883	83	62023	18.080	ug/l #	97
48) Methyl methacrylate	9.683	41	42237	19.539	ug/l	97
49) 1,4-Dioxane	9.694	88	14768	385.520	ug/l	98
51) 4-Methyl-2-Pentanone	10.447	43	265390	100.229	ug/l	100
52) Toluene	10.630	92	108899	18.939	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	63548	17.896	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	69720	18.551	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	40920	18.893	ug/l	93
56) Ethyl methacrylate	10.871	69	64476	20.580	ug/l	98
57) 1,3-Dichloropropane	11.159	76	69437	18.680	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	124292	84.783	ug/l	96
59) 2-Hexanone	11.194	43	196552	101.982	ug/l	99
60) Dibromochloromethane	11.359	129	46369	18.784	ug/l	98
61) 1,2-Dibromoethane	11.465	107	40487	18.254	ug/l	98
64) Tetrachloroethene	11.100	164	32973	17.081	ug/l	96
65) Chlorobenzene	11.888	112	114669	17.661	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	41227	18.255	ug/l	99
67) Ethyl Benzene	11.965	91	202751	18.708	ug/l	98
68) m/p-Xylenes	12.071	106	152162	37.085	ug/l	99
69) o-Xylene	12.394	106	76195	19.851	ug/l	100
70) Styrene	12.406	104	125793	18.787	ug/l	99
71) Bromoform	12.576	173	29749	17.506	ug/l #	96
73) Isopropylbenzene	12.694	105	195137	19.194	ug/l	99
74) N-amyl acetate	12.494	43	83814	19.370	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	59576	17.556	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	49491m	17.066	ug/l	
77) Bromobenzene	12.976	156	46633	17.063	ug/l	95
78) n-propylbenzene	13.035	91	217956	18.295	ug/l	99
79) 2-Chlorotoluene	13.124	91	143719	18.463	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	162239	19.254	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	19238	15.738	ug/l	93
82) 4-Chlorotoluene	13.218	91	140794	17.186	ug/l	98
83) tert-Butylbenzene	13.435	119	137903	19.775	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	167231	19.230	ug/l	97
85) sec-Butylbenzene	13.612	105	189337	19.221	ug/l	100
86) p-Isopropyltoluene	13.729	119	159203	19.706	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	83465	15.648	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	84967	16.636	ug/l	100
89) n-Butylbenzene	14.053	91	130915	17.324	ug/l	99
90) Hexachloroethane	14.329	117	29539	16.396	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	85875	16.755	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10902	15.858	ug/l	89
93) 1,2,4-Trichlorobenzene	15.394	180	41282	14.715	ug/l	99
94) Hexachlorobutadiene	15.494	225	18627	15.120	ug/l	96
95) Naphthalene	15.635	128	148636	17.701	ug/l	98
96) 1,2,3-Trichlorobenzene	15.841	180	40693	14.943	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084923.D
Acq On : 18 Nov 2024 16:28
Operator : JC\MD
Sample : VN1118WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/19/2024
Supervised By :Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:29:28 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

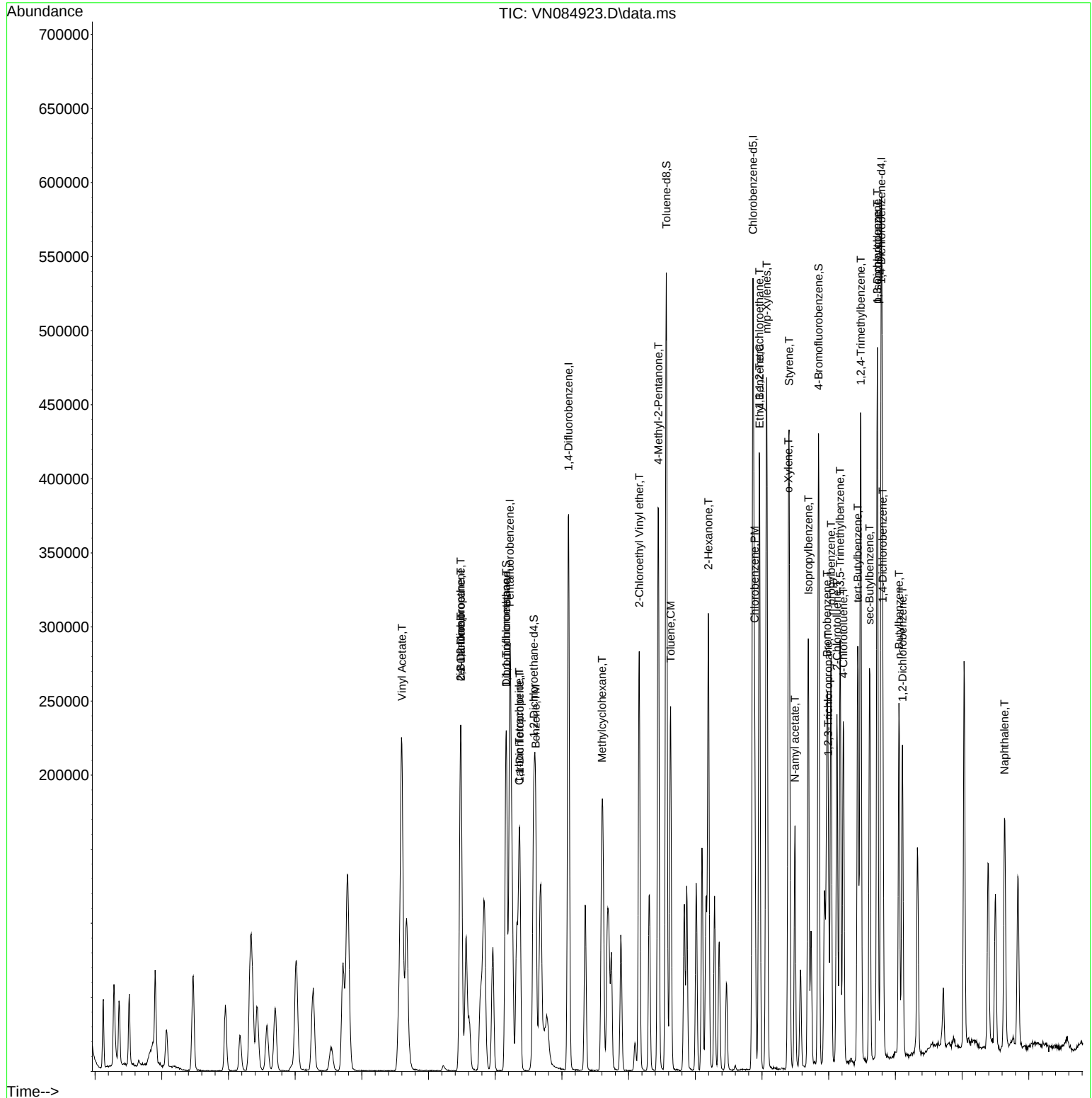
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
Data File : VN084923.D
Acq On : 18 Nov 2024 16:28
Operator : JC\MD
Sample : VN1118WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1118WBSD01

Manual Integrations
APPROVED

Reviewed By : John Carlone 11/19/2024
Supervised By : Mahesh Dadoda 11/19/2024

Quant Time: Nov 19 00:29:28 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



Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n
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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-butene	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

Manual Integration Report

Sequence:

VN111824

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084911.D	1,2,3-Trichloropropane	JOHN	11/19/2024 9:52:43 AM	MMDadoda	11/19/2024 1:21:09 PM	Peak Integrated by Software
VSTDCCC050	VN084911.D	trans-1,4-Dichloro-2-but ene	JOHN	11/19/2024 9:52:43 AM	MMDadoda	11/19/2024 1:21:09 PM	Peak Integrated by Software
VN1118WBS01	VN084919.D	1,2,3-Trichloropropane	JOHN	11/19/2024 9:52:52 AM	MMDadoda	11/19/2024 1:21:09 PM	Peak Integrated by Software
VN1118WBSD0 1	VN084923.D	1,2,3-Trichloropropane	JOHN	11/19/2024 9:52:56 AM	MMDadoda	11/19/2024 1:21:11 PM	Peak Integrated by Software
VSTDCCC050	VN084933.D	1,2,3-Trichloropropane	JOHN	11/19/2024 9:53:02 AM	MMDadoda	11/19/2024 1:21:12 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN111924	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084935.D	1,2,3-Trichloropropane	JOHN	11/20/2024 9:59:49 AM	MMDadoda	11/20/2024 1:01:17 PM	Peak Integrated by Software
VN1119WBS01	VN084938.D	1,2,3-Trichloropropane	JOHN	11/20/2024 9:59:53 AM	MMDadoda	11/20/2024 1:01:18 PM	Peak Integrated by Software
VSTDCCC050	VN084958.D	1,2,3-Trichloropropane	JOHN	11/20/2024 10:00:10 AM	MMDadoda	11/20/2024 1:01:28 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Maresh 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

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Maresh 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

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN111824

Review By	Semsettin Yesilyurt	Review On	11/18/2024 3:18:35 PM
Supervise By	John Carlone	Supervise On	11/19/2024 10:00:54 AM
SubDirectory	VN111824	HP Acquire Method	HP Processing Method 82N103024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131587		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131588,VP131589		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084910.D	18 Nov 2024 08:47	JC\MD	Ok
2	VSTDCCC050	VN084911.D	18 Nov 2024 09:51	JC\MD	Ok,M
3	VN1118MBL01	VN084912.D	18 Nov 2024 12:03	JC\MD	Not Ok
4	VN1118WBL01	VN084913.D	18 Nov 2024 12:27	JC\MD	Ok
5	VN1118MBL02	VN084914.D	18 Nov 2024 12:51	JC\MD	Ok
6	P4857-01	VN084915.D	18 Nov 2024 13:15	JC\MD	Not Ok
7	VN1118MBS01	VN084916.D	18 Nov 2024 13:39	JC\MD	Ok,M
8	P4857-01	VN084917.D	18 Nov 2024 14:04	JC\MD	Ok
9	IBLK	VN084918.D	18 Nov 2024 14:28	JC\MD	Ok
10	VN1118WBS01	VN084919.D	18 Nov 2024 14:52	JC\MD	Ok,M
11	P4843-01	VN084920.D	18 Nov 2024 15:16	JC\MD	ReRun
12	PB165013TB	VN084921.D	18 Nov 2024 15:40	JC\MD	Ok
13	PB164987TB	VN084922.D	18 Nov 2024 16:04	JC\MD	Ok
14	VN1118WBSD01	VN084923.D	18 Nov 2024 16:28	JC\MD	Ok,M
15	P4861-01	VN084924.D	18 Nov 2024 16:52	JC\MD	Ok
16	P4871-01	VN084925.D	18 Nov 2024 17:16	JC\MD	Dilution
17	P4848-02	VN084926.D	18 Nov 2024 17:40	JC\MD	ReRun
18	P4849-02	VN084927.D	18 Nov 2024 18:04	JC\MD	Not Ok
19	P4870-13	VN084928.D	18 Nov 2024 18:28	JC\MD	Ok
20	P4870-14	VN084929.D	18 Nov 2024 18:52	JC\MD	Ok
21	P4870-15	VN084930.D	18 Nov 2024 19:16	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN111824

Review By	Semsettin Yesilyurt	Review On	11/18/2024 3:18:35 PM
Supervise By	John Carlone	Supervise On	11/19/2024 10:00:54 AM
SubDirectory	VN111824	HP Acquire Method	HP Processing Method 82N103024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131587		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131588,VP131589		

22	P4870-16	VN084931.D	18 Nov 2024 19:40	JC\MD	Ok
23	P4887-02	VN084932.D	18 Nov 2024 20:04	JC\MD	Ok
24	VSTDCCC050	VN084933.D	18 Nov 2024 20:28	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN111924

Review By	John Carlone	Review On	11/20/2024 10:08:31 AM
Supervise By	Maresh Dadoda	Supervise On	11/20/2024 1:01:30 PM
SubDirectory	VN111924	HP Acquire Method	HP Processing Method 82N103024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131651		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131652,VP131653		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084934.D	19 Nov 2024 08:15	JC\MD	Ok
2	VSTDCCC050	VN084935.D	19 Nov 2024 09:27	JC\MD	Ok,M
3	VN1119MBL01	VN084936.D	19 Nov 2024 10:43	JC\MD	Ok
4	VN1119WBL01	VN084937.D	19 Nov 2024 11:07	JC\MD	Ok
5	VN1119WBS01	VN084938.D	19 Nov 2024 11:40	JC\MD	Ok,M
6	VN1119WBSD01	VN084939.D	19 Nov 2024 12:04	JC\MD	Ok,M
7	P4770-01	VN084940.D	19 Nov 2024 12:28	JC\MD	Dilution
8	P4770-02	VN084941.D	19 Nov 2024 12:52	JC\MD	Ok
9	P4845-01DL	VN084942.D	19 Nov 2024 13:17	JC\MD	Ok,M
10	P4845-04DL	VN084943.D	19 Nov 2024 13:41	JC\MD	Ok
11	P4845-11DL	VN084944.D	19 Nov 2024 14:05	JC\MD	Ok
12	P4845-19DL	VN084945.D	19 Nov 2024 14:29	JC\MD	Ok
13	P4845-09	VN084946.D	19 Nov 2024 14:53	JC\MD	Ok
14	P4845-02	VN084947.D	19 Nov 2024 15:15	JC\MD	Ok
15	P4848-02	VN084948.D	19 Nov 2024 15:40	JC\MD	Ok
16	P4871-01DL	VN084949.D	19 Nov 2024 16:04	JC\MD	Ok
17	P4845-16	VN084950.D	19 Nov 2024 16:28	JC\MD	Ok
18	P4845-20	VN084951.D	19 Nov 2024 16:52	JC\MD	Ok
19	P4843-01	VN084952.D	19 Nov 2024 17:16	JC\MD	Ok
20	P4845-08	VN084953.D	19 Nov 2024 17:40	JC\MD	Ok
21	P4845-15	VN084954.D	19 Nov 2024 18:04	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN111924

Review By	John Carlone	Review On	11/20/2024 10:08:31 AM
Supervise By	Mahesh Dadoda	Supervise On	11/20/2024 1:01:30 PM
SubDirectory	VN111924	HP Acquire Method	HP Processing Method 82N103024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131651		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131652,VP131653		

22	P4849-02	VN084955.D	19 Nov 2024 18:28	JC\MD	Ok
23	P4844-01	VN084956.D	19 Nov 2024 18:52	JC\MD	Ok
24	IBLK	VN084957.D	19 Nov 2024 19:16	JC\MD	Ok
25	VSTDCCC050	VN084958.D	19 Nov 2024 19:40	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM
Supervise By	Maresh 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#	Sampleld	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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN111824

Review By	Semsettin Yesilyurt	Review On	11/18/2024 3:18:35 PM
Supervise By	John Carlone	Supervise On	11/19/2024 10:00:54 AM
SubDirectory	VN111824	HP Acquire Method	HP Processing Method 82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131587
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131588,VP131589

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084910.D	18 Nov 2024 08:47		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084911.D	18 Nov 2024 09:51	V13516	JC\MD	Ok,M
3	VN1118MBL01	VN1118MBL01	VN084912.D	18 Nov 2024 12:03		JC\MD	Not Ok
4	VN1118WBL01	VN1118WBL01	VN084913.D	18 Nov 2024 12:27		JC\MD	Ok
5	VN1118MBL02	VN1118MBL02	VN084914.D	18 Nov 2024 12:51		JC\MD	Ok
6	P4857-01	ETGI-328	VN084915.D	18 Nov 2024 13:15	run straight MEOH	JC\MD	Not Ok
7	VN1118MBS01	VN1118MBS01	VN084916.D	18 Nov 2024 13:39		JC\MD	Ok,M
8	P4857-01	ETGI-328	VN084917.D	18 Nov 2024 14:04		JC\MD	Ok
9	IBLK	IBLK	VN084918.D	18 Nov 2024 14:28		JC\MD	Ok
10	VN1118WBS01	VN1118WBS01	VN084919.D	18 Nov 2024 14:52	BS high for com #52 and 67	JC\MD	Ok,M
11	P4843-01	SW-WTS-01	VN084920.D	18 Nov 2024 15:16	vial A pH<2 BS high	JC\MD	ReRun
12	PB165013TB	PB165013TB	VN084921.D	18 Nov 2024 15:40		JC\MD	Ok
13	PB164987TB	PB164987TB	VN084922.D	18 Nov 2024 16:04		JC\MD	Ok
14	VN1118WBSD01	VN1118WBSD01	VN084923.D	18 Nov 2024 16:28		JC\MD	Ok,M
15	P4861-01	WC-11-A-202411	VN084924.D	18 Nov 2024 16:52	vial A pH#5.0	JC\MD	Ok
16	P4871-01	WC-10-A-202411	VN084925.D	18 Nov 2024 17:16	vial A pH#5.0 Need 100X	JC\MD	Dilution
17	P4848-02	TP-1	VN084926.D	18 Nov 2024 17:40	vial A pH#5.0 E Flag in Previous Sample	JC\MD	ReRun

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN111824

Review By	Semsettin Yesilyurt	Review On	11/18/2024 3:18:35 PM
Supervise By	John Carlone	Supervise On	11/19/2024 10:00:54 AM
SubDirectory	VN111824	HP Acquire Method	HP Processing Method 82N103024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131587		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131588,VP131589		

18	P4849-02	RR-1	VN084927.D	18 Nov 2024 18:04	vial A pH#5.0 Carryover concentration	JC\MD	Not Ok
19	P4870-13	TP-1	VN084928.D	18 Nov 2024 18:28	vial A pH#5.0	JC\MD	Ok
20	P4870-14	MH-735	VN084929.D	18 Nov 2024 18:52	vial A pH#5.0	JC\MD	Ok
21	P4870-15	MH-736	VN084930.D	18 Nov 2024 19:16	vial A pH#5.0	JC\MD	Ok
22	P4870-16	TP-15	VN084931.D	18 Nov 2024 19:40	vial A pH#5.0	JC\MD	Ok
23	P4887-02	MH-739	VN084932.D	18 Nov 2024 20:04	vial A pH#5.0	JC\MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VN084933.D	18 Nov 2024 20:28		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN111924

Review By	John Carlone	Review On	11/20/2024 10:08:31 AM
Supervise By	Maresh Dadoda	Supervise On	11/20/2024 1:01:30 PM
SubDirectory	VN111924	HP Acquire Method	HP Processing Method 82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131651
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131652,VP131653

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084934.D	19 Nov 2024 08:15		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084935.D	19 Nov 2024 09:27		JC\MD	Ok,M
3	VN1119MBL01	VN1119MBL01	VN084936.D	19 Nov 2024 10:43		JC\MD	Ok
4	VN1119WBL01	VN1119WBL01	VN084937.D	19 Nov 2024 11:07		JC\MD	Ok
5	VN1119WBS01	VN1119WBS01	VN084938.D	19 Nov 2024 11:40		JC\MD	Ok,M
6	VN1119WBSD01	VN1119WBSD01	VN084939.D	19 Nov 2024 12:04		JC\MD	Ok,M
7	P4770-01	MW-1	VN084940.D	19 Nov 2024 12:28	Need 2500X	JC\MD	Dilution
8	P4770-02	MW-3	VN084941.D	19 Nov 2024 12:52	vial B pH<2	JC\MD	Ok
9	P4845-01DL	FSND-MW-27-2024111	VN084942.D	19 Nov 2024 13:17	vial B pH<2	JC\MD	Ok,M
10	P4845-04DL	FSND-MW-22R-2024111	VN084943.D	19 Nov 2024 13:41	vial B pH<2	JC\MD	Ok
11	P4845-11DL	FSND-MW-33-2024111	VN084944.D	19 Nov 2024 14:05	vial B pH<2	JC\MD	Ok
12	P4845-19DL	FSND-GEP-2-2024111	VN084945.D	19 Nov 2024 14:29	vial B pH<2	JC\MD	Ok
13	P4845-09	FSND-RB-1-20241111	VN084946.D	19 Nov 2024 14:53	vial B pH<2	JC\MD	Ok
14	P4845-02	FSND-MW-B-3-2024111	VN084947.D	19 Nov 2024 15:15	vial B pH<2	JC\MD	Ok
15	P4848-02	TP-1	VN084948.D	19 Nov 2024 15:40	vial B pH#5.0	JC\MD	Ok
16	P4871-01DL	WC-10-A-202411DL	VN084949.D	19 Nov 2024 16:04	vial B pH#5.0	JC\MD	Ok
17	P4845-16	FSND-MW-DUP-01-2024111	VN084950.D	19 Nov 2024 16:28	vial B pH<2	JC\MD	Ok
18	P4845-20	FSND-MW-14-2024111	VN084951.D	19 Nov 2024 16:52	vial B pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN111924

Review By	John Carlone	Review On	11/20/2024 10:08:31 AM
Supervise By	Maresh Dadoda	Supervise On	11/20/2024 1:01:30 PM
SubDirectory	VN111924	HP Acquire Method	HP Processing Method 82N103024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131651		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131652,VP131653		

19	P4843-01	SW-WTS-01	VN084952.D	19 Nov 2024 17:16	vial B pH<2	JC\MD	Ok
20	P4845-08	FSND-MW-35-2024111	VN084953.D	19 Nov 2024 17:40	vial B pH<2	JC\MD	Ok
21	P4845-15	FSND-MW-12R-202411	VN084954.D	19 Nov 2024 18:04	vial B pH<2	JC\MD	Ok
22	P4849-02	RR-1	VN084955.D	19 Nov 2024 18:28	vial B pH#5.0	JC\MD	Ok
23	P4844-01	241113075-01-VOA	VN084956.D	19 Nov 2024 18:52	vial C pH#6.0	JC\MD	Ok
24	IBLK	IBLK	VN084957.D	19 Nov 2024 19:16		JC\MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VN084958.D	19 Nov 2024 19:40		JC\MD	Ok,M

M : Manual Integration

SOP ID :	M1311-TCLP-15		
SDG No :	N/A	Start Prep Date :	N/A Time : N/A
Welgh By :	N/A	End Prep Date :	N/A Time : N/A
Balance ID :	N/A	Combination Ratio :	N/A
pH Meter ID :	WC PH METER-1	ZHE Cleaning Batch :	N/A
Extraction By :	N/A	Initial Room Temperature:	N/A
Filter By :	N/A	Final Room Temperature:	N/A
Pippete ID :	N/A	TCLP Technician Signature :	<i>JB</i>
Tumbler ID :	N/A	Supervisor By :	<i>12</i>
TCLP Filter ID :	N/A		

Standard 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
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
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

We receive water sample in 40 ml vial tr to VOC LAB without filtration and tumbling.
--

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11-15-24 14:00	<i>JB</i> <i>TCLP Room</i>	<i>JC</i> <i>VOC Lab</i>
	Preparation Group	Analysis Group

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
P4861-01	WC-11-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P4871-01	WC-10-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PB165013TB	LEB013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4861-01	WC-11-A-202411	N/A	N/A	N/A	N/A	<0.5	N/A
P4871-01	WC-10-A-202411	N/A	N/A	N/A	N/A	<0.5	N/A
PB165013TB	LEB013	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp zhe p4861

WorkList ID : 185486

Department : TCLP Extraction

Date : 11-15-2024 13:42:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4861-01	WC-11-A-202411	Water	TCLP ZHE Extraction	Cool 4 deg C	AECO02	L41	11/13/2024	1311 ZHE
P4871-01	WC-10-A-202411	Water	TCLP ZHE Extraction	Cool 4 deg C	AECO02	M11	11/13/2024	1311 ZHE

Date/Time 11-15-24 13:50
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 11-15-24 15:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. **P4871**
QUOTE NO.
COC Number **2041713**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **AECOM**
ADDRESS: **605 3rd Ave**
CITY **New York** STATE: **NY** ZIP: **10158**
ATTENTION: **Amit Haryani**
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **Meeker Ave Superfund**
PROJECT NO.: **60705866** LOCATION: **Brooklyn**
PROJECT MANAGER: **Amit Haryani**
e-mail: **amit.haryani@aecom.com**
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY **→ SAME** STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) **3 day** DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

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

1 **TCLP VOA**
2 **TCLP**
3 **TCLP BNA**
4 **TCLP Metals**
5 **Paint Filter**
6 **Reactive Mercury**
7 **Reactive Amide**
8 **pH**
9 **TCLP Pesticide**
10 **PCB + Flashpoint**

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1. B2406004	WC-10-A-202411	GW	X		11/13/24	1500	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. Hannah Dwyer	DATE/TIME: 11/14/24 1200	RECEIVED BY: [Signature] 1326	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: [Signature] 11-14-24	Comments:
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 11-14-24	RECEIVED BY: 3.	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO



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