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

Hit Summary Sheet
SW-846

SDG No.: P4258

Client: Roman E&G Corp

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:

SAMPLE DATA

Raw Data: **VN084304.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Roman E&G Corp		Date Collected:	10/01/24	
Project:	Perth Amboy		Date Received:	10/01/24	
Client Sample ID:	Chamberlain Ave		SDG No.:	P4258	
Lab Sample ID:	P4258-04		Matrix:	TCLP	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5 Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA	
GC Column:	RXI-624 ID :	0.25	Level :	LOW	
Prep Method :	SW5035				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084304.D	1		10/03/24 17:27	VN100324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	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	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	50.9		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.2		77 - 121	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	8.224			
540-36-3	1,4-Difluorobenzene	303000	9.1			
3114-55-4	Chlorobenzene-d5	266000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	107000	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

QC SUMMARY

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Surrogate Summary

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4258-04	Chamberlain Ave	1,2-Dichloroethane-d4	50	49.9	100	74	125
		Dibromofluoromethane	50	48.5	97	75	124
		Toluene-d8	50	50.9	102	86	113
		4-Bromofluorobenzene	50	47.2	94	77	121

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Surrogate Summary

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VN1003WBL01	VN1003WBL01	1,2-Dichloroethane-d4	50	51.9	104	74	125
		Dibromofluoromethane	50	51.9	104	75	124
		Toluene-d8	50	50.4	101	86	113
		4-Bromofluorobenzene	50	46.5	93	77	121
VN1003WBS01	VN1003WBS01	1,2-Dichloroethane-d4	50	52.8	106	74	125
		Dibromofluoromethane	50	54.6	109	75	124
		Toluene-d8	50	56.2	112	86	113
		4-Bromofluorobenzene	50	53.1	106	77	121
VN1003WBSD0	VN1003WBSD01	1,2-Dichloroethane-d4	50	54.8	110	74	125
		Dibromofluoromethane	50	55.0	110	75	124
		Toluene-d8	50	54.8	110	86	113
		4-Bromofluorobenzene	50	54.7	109	77	121

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: SW8260-Low **Datafile :** VN084286.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1003WBS01	Vinyl chloride	20	19.7	ug/L	99			65	117	
	1,1-Dichloroethene	20	19.6	ug/L	98			74	110	
	2-Butanone	100	98.2	ug/L	98			65	122	
	Carbon Tetrachloride	20	20.1	ug/L	101			77	113	
	Chloroform	20	20.6	ug/L	103			79	113	
	Benzene	20	20.2	ug/L	101			82	109	
	1,2-Dichloroethane	20	20.4	ug/L	102			80	115	
	Trichloroethene	20	20.0	ug/L	100			77	113	
	Tetrachloroethene	20	20.2	ug/L	101			67	123	
	Chlorobenzene	20	19.7	ug/L	99			82	109	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: SW8260-Low **Datafile :** VN084287.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1003WBSD01	Vinyl chloride	20	19.7	ug/L	99	0		65	117	20
	1,1-Dichloroethene	20	19.5	ug/L	98	0		74	110	20
	2-Butanone	100	100	ug/L	100	2		65	122	20
	Carbon Tetrachloride	20	20.3	ug/L	102	1		77	113	20
	Chloroform	20	20.7	ug/L	104	1		79	113	20
	Benzene	20	20.8	ug/L	104	3		82	109	20
	1,2-Dichloroethane	20	21.7	ug/L	109	7		80	115	20
	Trichloroethene	20	19.9	ug/L	100	0		77	113	20
	Tetrachloroethene	20	20.3	ug/L	102	1		67	123	20
	Chlorobenzene	20	20.4	ug/L	102	3		82	109	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1003WBL01

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VN084285.D Lab Sample ID: VN1003WBL01

Date Analyzed: 10/03/2024 Time Analyzed: 09:42

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
VN1003WBS01	VN1003WBS01	VN084286.D	10/03/2024
VN1003WBSD01	VN1003WBSD01	VN084287.D	10/03/2024
Chamberlain Ave	P4258-04	VN084304.D	10/03/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VN084211.D BFB Injection Date: 09/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:24

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	53.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	71
175	5.0 - 9.0% of mass 174	5.5 (7.8) 1
176	95.0 - 101.0% of mass 174	69.7 (98.2) 1
177	5.0 - 9.0% of mass 176	4.9 (7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN084213.D	09/30/2024	12:25
VSTDICCC050	VSTDICCC050	VN084214.D	09/30/2024	12:49
VSTDICC020	VSTDICC020	VN084215.D	09/30/2024	13:13
VSTDICC010	VSTDICC010	VN084216.D	09/30/2024	13:37
VSTDICC005	VSTDICC005	VN084217.D	09/30/2024	14:00
VSTDICC001	VSTDICC001	VN084218.D	09/30/2024	14:48

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VN084282.D BFB Injection Date: 10/03/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:20

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	20.1
75	30.0 - 60.0% of mass 95	52.6
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	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	75.8
175	5.0 - 9.0% of mass 174	6.2 (8.2) 1
176	95.0 - 101.0% of mass 174	75.1 (99.1) 1
177	5.0 - 9.0% of mass 176	5 (6.6) 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	VN084283.D	10/03/2024	08:43
VN1003WBL01	VN1003WBL01	VN084285.D	10/03/2024	09:42
VN1003WBS01	VN1003WBS01	VN084286.D	10/03/2024	10:05
VN1003WBSD01	VN1003WBSD01	VN084287.D	10/03/2024	10:40
Chamberlain Ave	P4258-04	VN084304.D	10/03/2024	17:27

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VN084283.D Date Analyzed: 10/03/2024

Instrument ID: MSVOA_N Time Analyzed: 08:43

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	169381	8.22	285966	9.10	262806	11.87
UPPER LIMIT	338762	8.724	571932	9.6	525612	12.365
LOWER LIMIT	84690.5	7.724	142983	8.6	131403	11.365
EPA SAMPLE NO.						
Chamberlain Ave	164187	8.22	302561	9.10	265786	11.87
VN1003WBL01	163611	8.22	286487	9.10	249556	11.87
VN1003WBS01	164341	8.22	282487	9.10	252092	11.87
VN1003WBSD01	156141	8.22	268205	9.10	240791	11.87

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Lab File ID: VN084283.D Date Analyzed: 10/03/2024

Instrument ID: MSVOA_N Time Analyzed: 08:43

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

	IS4 AREA #	RT #				
12 HOUR STD	131016	13.788				
UPPER LIMIT	262032	14.288				
LOWER LIMIT	65508	13.288				
EPA SAMPLE NO.						
Chamberlain Ave	107062	13.79				
VN1003WBL01	98264	13.79				
VN1003WBS01	119632	13.79				
VN1003WBSD01	117079	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.

QC SAMPLE DATA

Raw Data: **VN084285.D**

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

Report of Analysis

Client:	Roman E&G Corp		Date Collected:		
Project:	Perth Amboy		Date Received:		
Client Sample ID:	VN1003WBL01		SDG No.:	P4258	
Lab Sample ID:	VN1003WBL01		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
VN084285.D	1		10/03/24 09:42	VN100324

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	51.9		74 - 125	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		77 - 121	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	8.224			
540-36-3	1,4-Difluorobenzene	286000	9.1			
3114-55-4	Chlorobenzene-d5	250000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	98300	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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Roman E&G Corp		Date Collected:		
Project:	Perth Amboy		Date Received:		
Client Sample ID:	VN1003WBS01		SDG No.:	P4258	
Lab Sample ID:	VN1003WBS01		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
VN084286.D	1		10/03/24 10:05	VN100324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	19.7		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.6		0.26	1.00	ug/L
78-93-3	2-Butanone	98.2		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.25	1.00	ug/L
67-66-3	Chloroform	20.6		0.26	1.00	ug/L
71-43-2	Benzene	20.2		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.0		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	20.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.7		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	54.6		75 - 124	109%	SPK: 50
2037-26-5	Toluene-d8	56.2		86 - 113	112%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		77 - 121	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	8.224			
540-36-3	1,4-Difluorobenzene	282000	9.1			
3114-55-4	Chlorobenzene-d5	252000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.788			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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

Raw Data: **VN084287.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Roman E&G Corp		Date Collected:		
Project:	Perth Amboy		Date Received:		
Client Sample ID:	VN1003WBSD01		SDG No.:	P4258	
Lab Sample ID:	VN1003WBSD01		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
VN084287.D	1		10/03/24 10:40	VN100324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	19.7		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.5		0.26	1.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.3		0.25	1.00	ug/L
67-66-3	Chloroform	20.7		0.26	1.00	ug/L
71-43-2	Benzene	20.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.7		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	20.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	20.4		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.8		74 - 125	110%	SPK: 50
1868-53-7	Dibromofluoromethane	55.0		75 - 124	110%	SPK: 50
2037-26-5	Toluene-d8	54.8		86 - 113	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.7		77 - 121	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	156000	8.224			
540-36-3	1,4-Difluorobenzene	268000	9.1			
3114-55-4	Chlorobenzene-d5	241000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	117000	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

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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_N Calibration Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 12:25 14:48

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

LAB FILE ID: RRF100 = VN084213.D RRF050 = VN084214.D RRF020 = VN084215.D
RRF010 = VN084216.D RRF005 = VN084217.D RRF001 = VN084218.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Vinyl Chloride	0.611	0.667	0.665	0.641	0.724	0.617	0.654	6.4
1,1-Dichloroethene	0.538	0.587	0.596	0.533	0.631	0.493	0.563	8.9
2-Butanone	0.395	0.452	0.465	0.419	0.467	0.404	0.434	7.3
Carbon Tetrachloride	0.515	0.549	0.553	0.508	0.545	0.482	0.525	5.4
Chloroform	1.083	1.204	1.205	1.117	1.259	1.181	1.175	5.5
Benzene	1.434	1.553	1.559	1.410	1.574	1.421	1.492	5.2
1,2-Dichloroethane	0.480	0.528	0.524	0.498	0.544	0.460	0.506	6.3
Trichloroethene	0.334	0.362	0.361	0.329	0.379	0.325	0.348	6.3
Tetrachloroethene	0.323	0.359	0.351	0.338	0.373	0.346	0.348	5
Chlorobenzene	1.068	1.170	1.143	1.069	1.173	1.028	1.109	5.5
1,2-Dichloroethane-d4	0.673	0.737	0.764	0.712	0.821		0.741	7.5
Dibromofluoromethane	0.308	0.324	0.341	0.316	0.359		0.330	6.1
Toluene-d8	1.189	1.243	1.242	1.148	1.242		1.213	3.5
4-Bromofluorobenzene	0.447	0.452	0.449	0.406	0.456		0.442	4.6

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG No.: P4258

Instrument ID: MSVOA_N Calibration Date/Time: 10/03/2024 08:43

Lab File ID: VN084283.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.654	0.623		-4.74	20
1,1-Dichloroethene	0.563	0.545		-3.2	20
2-Butanone	0.434	0.451		3.92	20
Carbon Tetrachloride	0.525	0.548		4.38	20
Chloroform	1.175	1.187		1.02	20
Benzene	1.492	1.529		2.48	20
1,2-Dichloroethane	0.506	0.529		4.55	20
Trichloroethene	0.348	0.350		0.57	20
Tetrachloroethene	0.348	0.348		0	20
Chlorobenzene	1.109	1.084	0.3	-2.25	20
1,2-Dichloroethane-d4	0.741	0.758		2.29	20
Dibromofluoromethane	0.330	0.342		3.64	20
Toluene-d8	1.213	1.304		7.5	20
4-Bromofluorobenzene	0.442	0.468		5.88	20

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

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084304.D
Acq On : 03 Oct 2024 17:27
Operator : JC\MD
Sample : P4258-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 04 01:39:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
Chamberlain Ave

Manual Integrations APPROVED

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	164187	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	302561	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	265786	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	107062	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	121347	49.847	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.700%			
35) Dibromofluoromethane	8.165	113	96852	48.555	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.120%			
50) Toluene-d8	10.565	98	373293	50.867	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.740%			
62) 4-Bromofluorobenzene	12.847	95	126134	47.179	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.360%			
Target Compounds						Qvalue
16) Acetone	4.430	43	15883	15.188	ug/l	92
20) Methylene Chloride	5.283	84	4056	1.908	ug/l #	89
43) Isopropyl Acetate	8.688	43	181785m	31.223	ug/l	

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

Sample Results: **VN084304.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084304.D
Acq On : 03 Oct 2024 17:27
Operator : JC\MD
Sample : P4258-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 04 01:39:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
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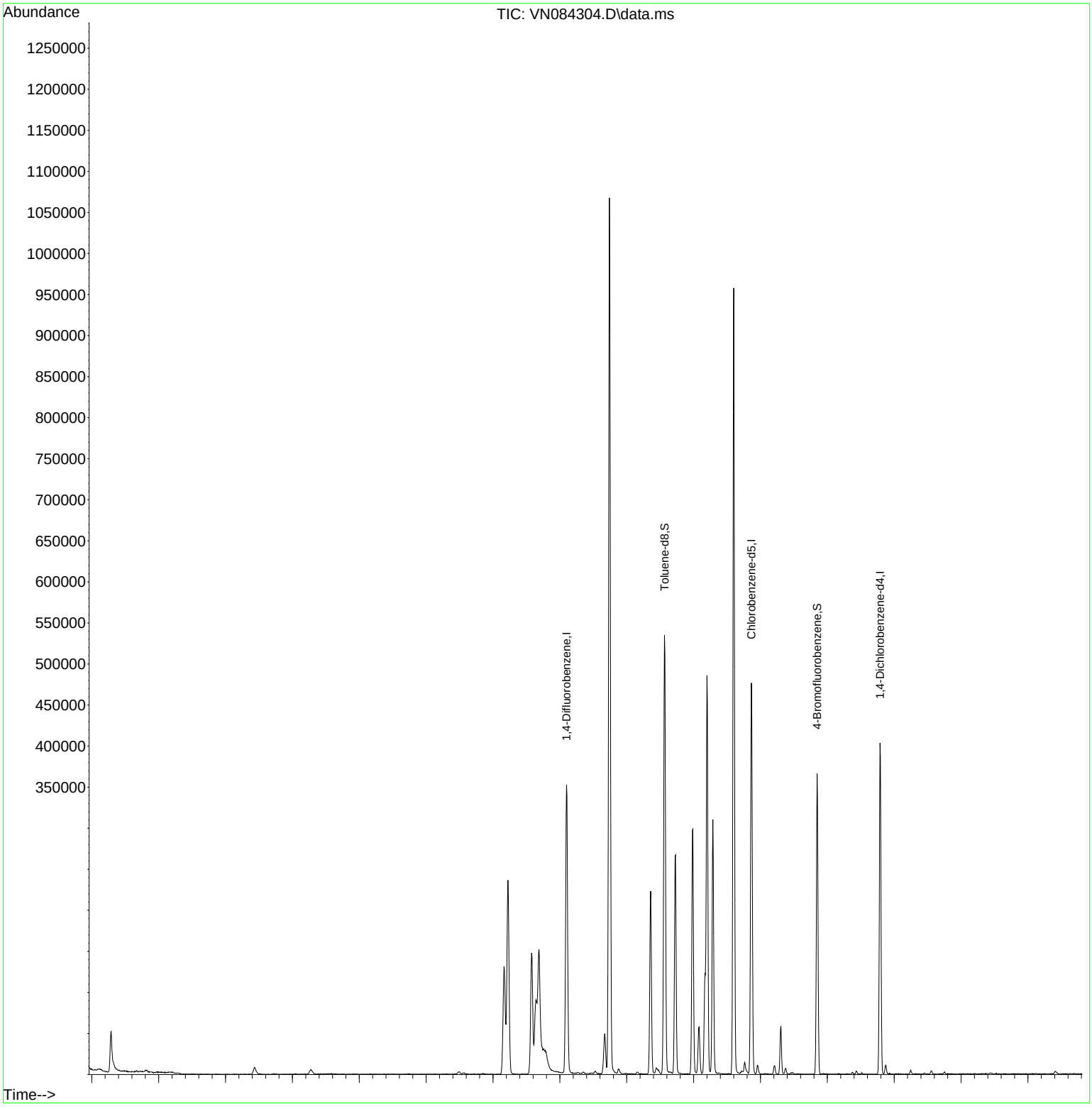
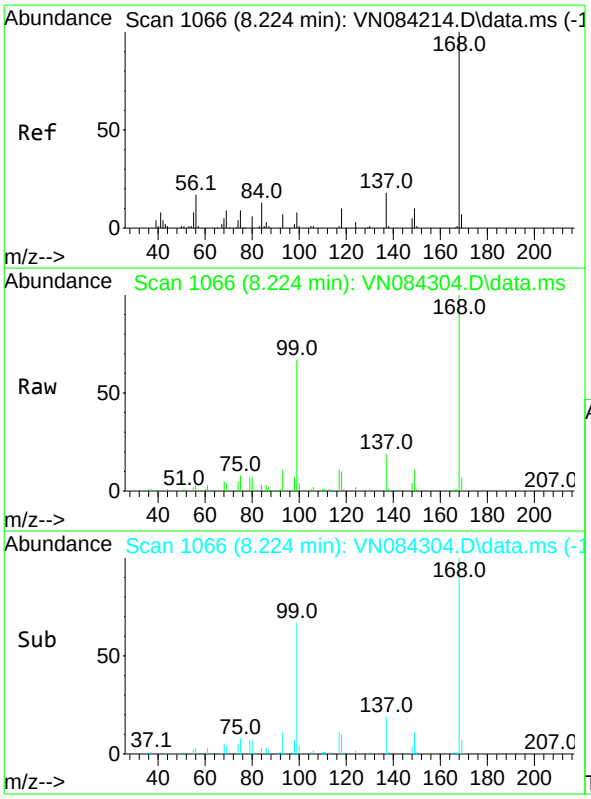
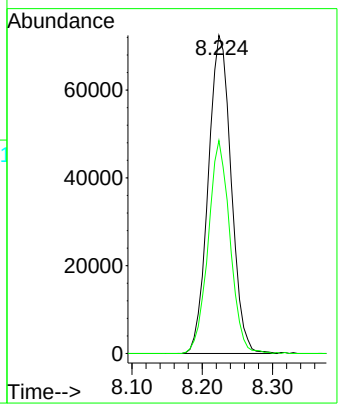




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion:168 Resp: 164187

Ion	Ratio	Lower	Upper
168	100		
99	67.0	54.2	81.2



Instrument :
MSVOA_N
ClientSampleId :
Chamberlain Ave

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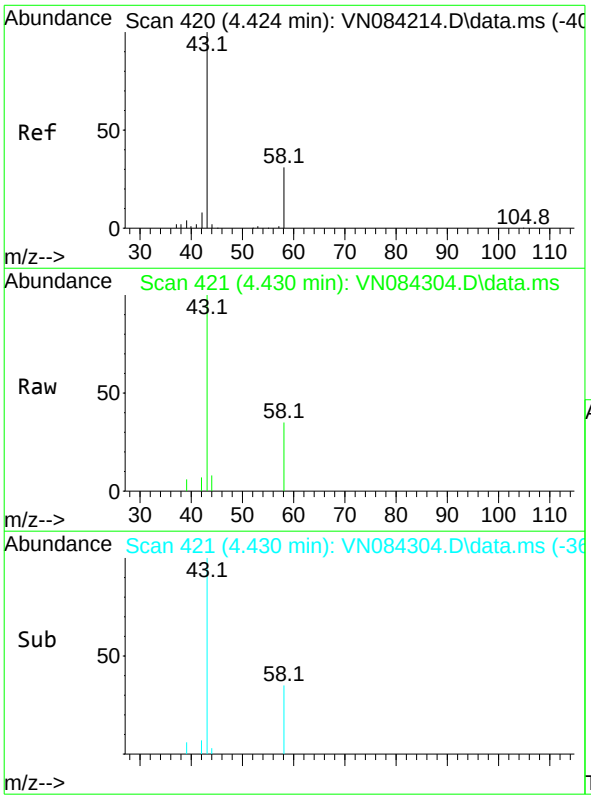
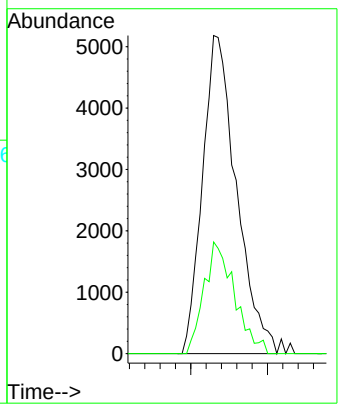
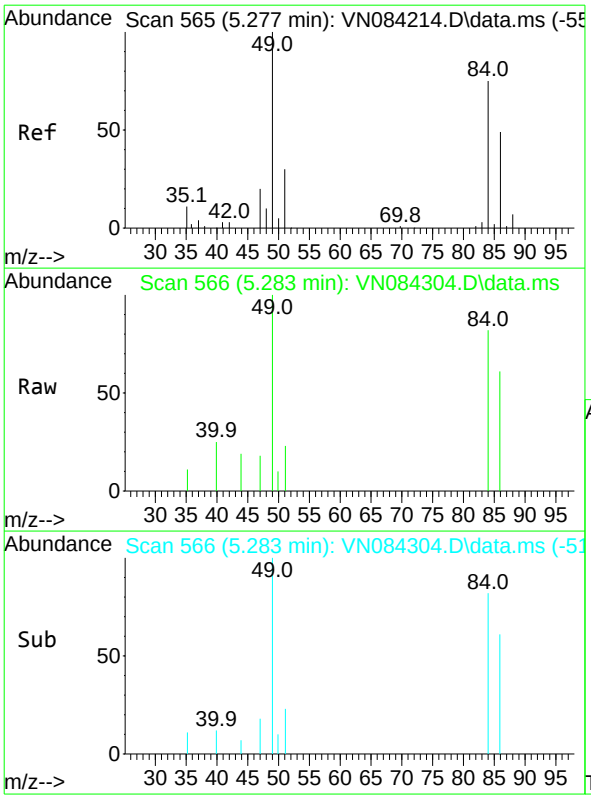


#16
Acetone
Concen: 15.188 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion: 43 Resp: 15883

Ion	Ratio	Lower	Upper
43	100		
58	35.1	24.4	36.6

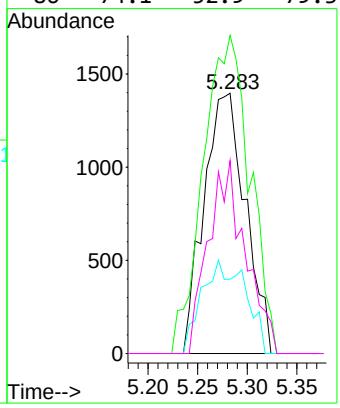




#20
Methylene Chloride
Concen: 1.908 ug/l
RT: 5.283 min Scan# 56
Delta R.T. 0.006 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion: 84 Resp: 4056

Ion	Ratio	Lower	Upper
84	100		
49	122.2	107.2	160.8
51	28.6	31.8	47.8#
86	74.1	52.9	79.3



Instrument :
MSVOA_N
ClientSampleId :
Chamberlain Ave

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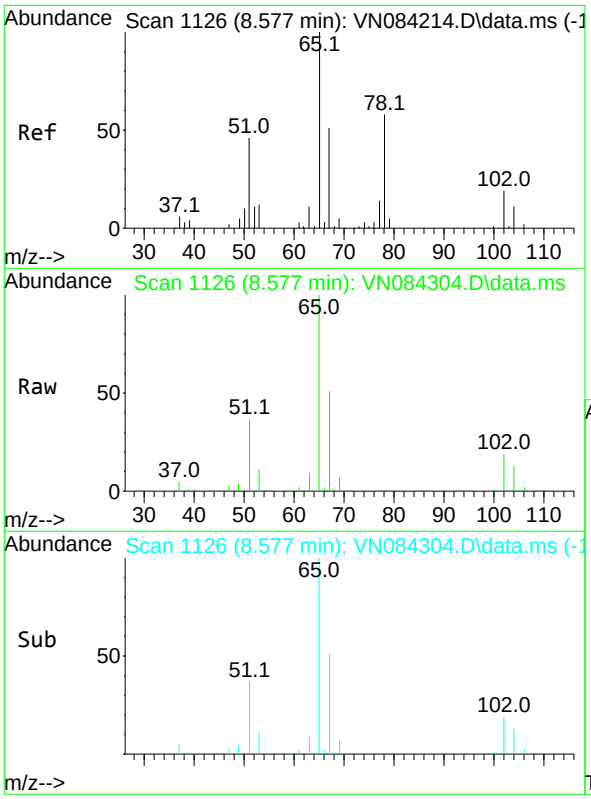
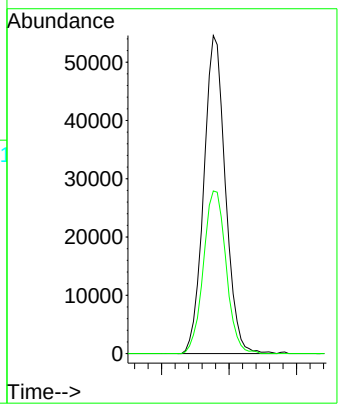
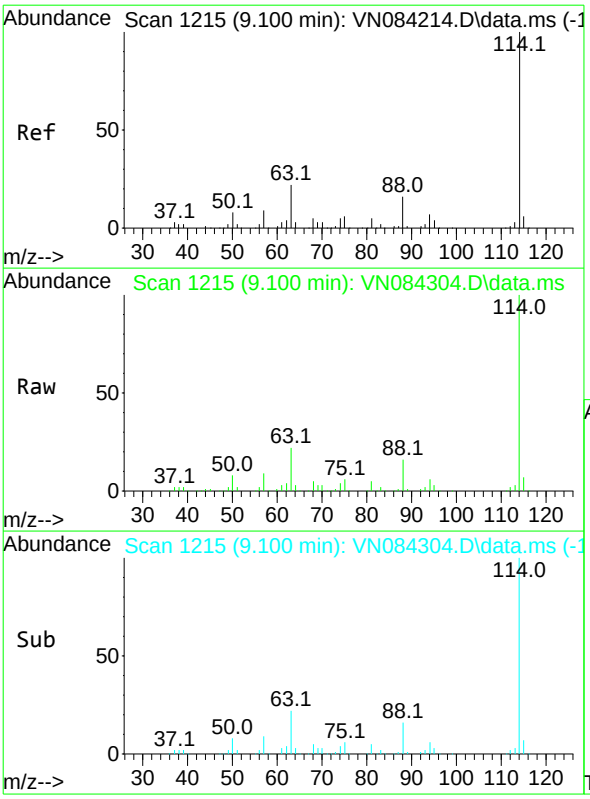


#33
1,2-Dichloroethane-d4
Concen: 49.847 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion: 65 Resp: 121347

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	102.0





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion:114 Resp: 302561

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	43.8
88	15.8	0.0	31.6

Instrument :
MSVOA_N
ClientSampleId :
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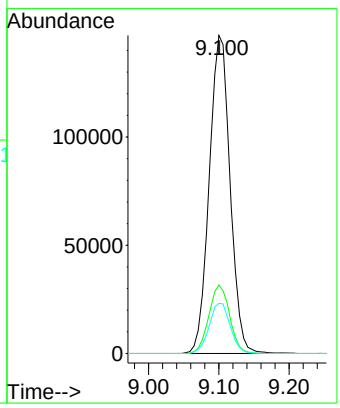
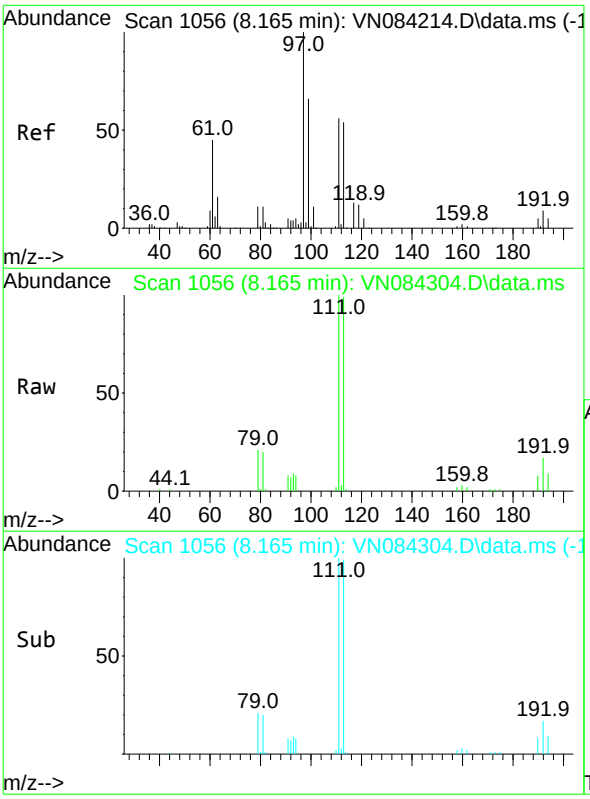
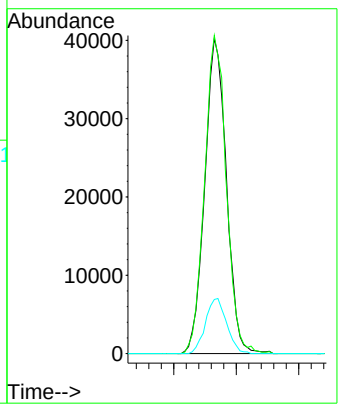


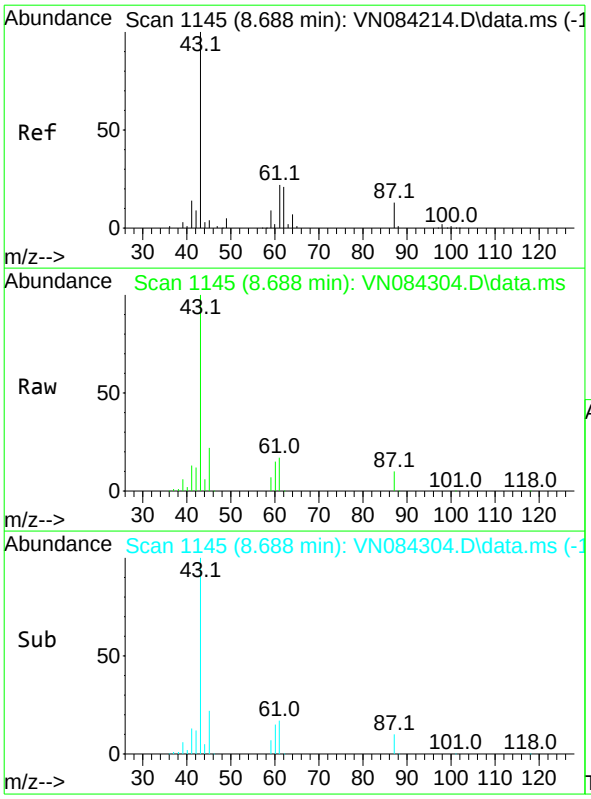


#35
Dibromofluoromethane
Concen: 48.555 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion:113 Resp: 96852

Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.3	124.9
192	17.1	13.5	20.3

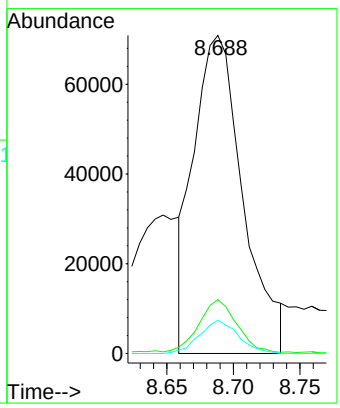




#43
Isopropyl Acetate
Concen: 31.223 ug/l m
RT: 8.688 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion: 43 Resp: 181785

Ion	Ratio	Lower	Upper
43	100		
61	13.3	20.4	30.6#
87	8.2	10.3	15.5#



Instrument :
MSVOA_N
ClientSampleId :
Chamberlain Ave

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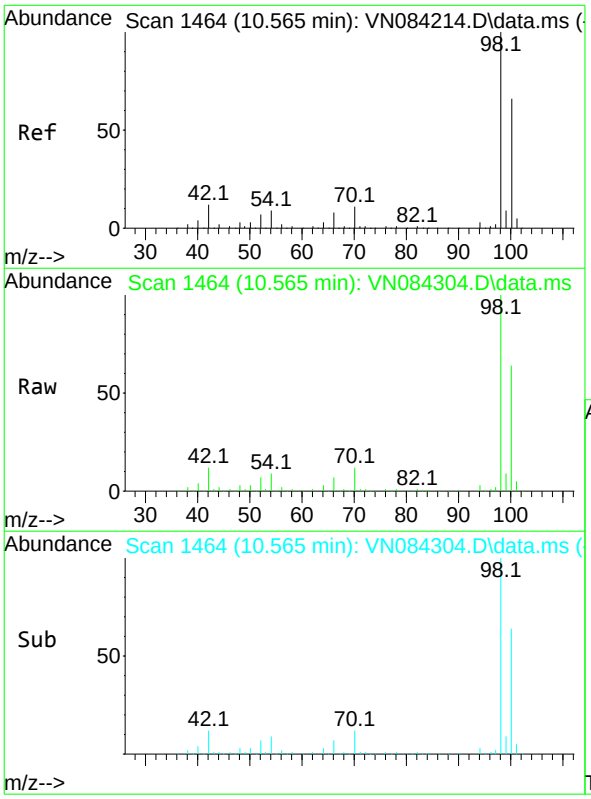
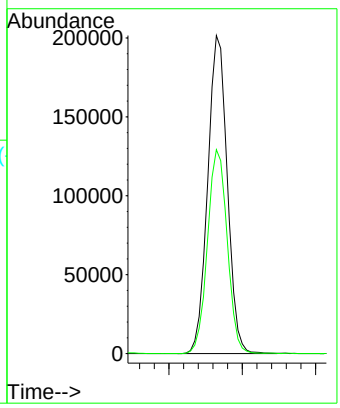
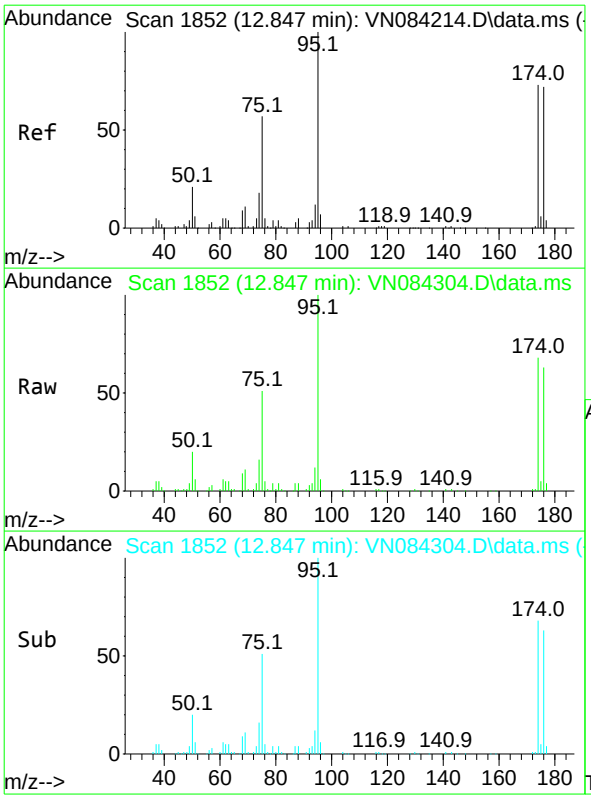


#50
Toluene-d8
Concen: 50.867 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion: 98 Resp: 373293

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.7	79.1

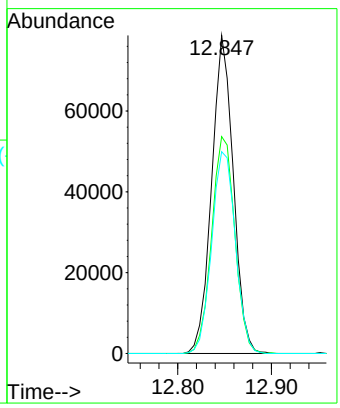




#62
4-Bromofluorobenzene
Concen: 47.179 ug/l
RT: 12.847 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion: 95 Resp: 126134

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	145.2
176	69.3	0.0	140.0



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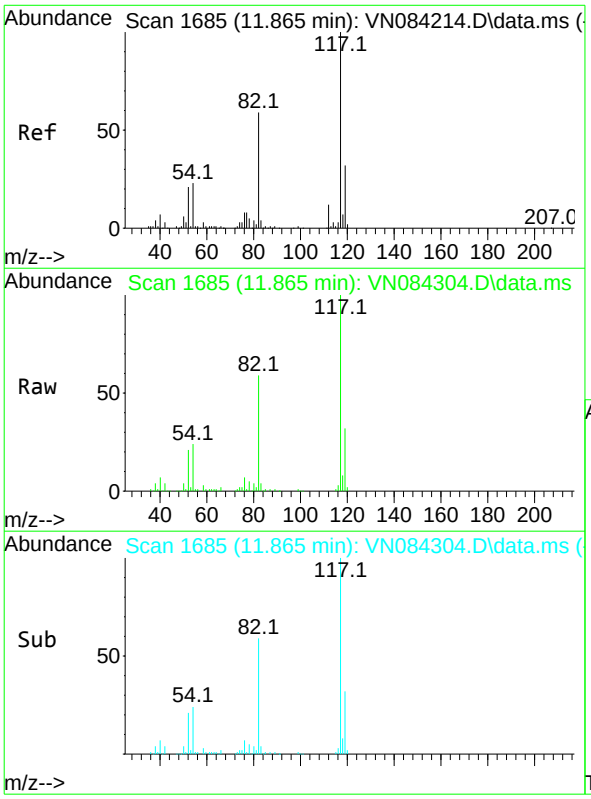
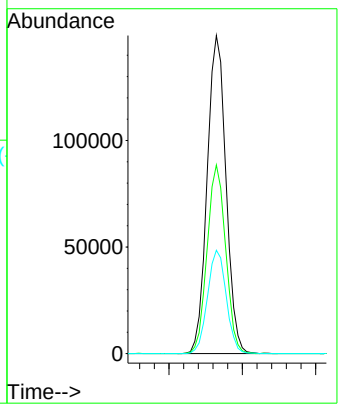
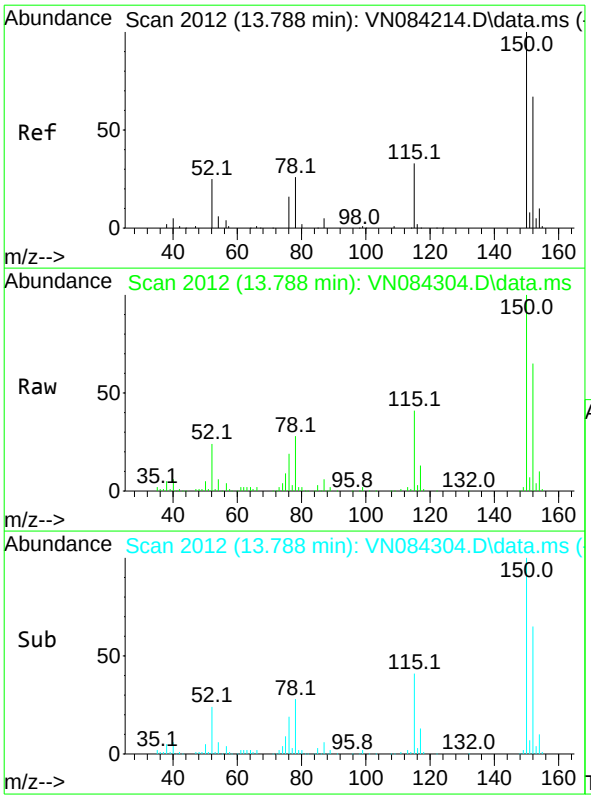


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion:117 Resp: 265786

Ion	Ratio	Lower	Upper
117	100		
82	59.3	47.2	70.8
119	32.5	25.4	38.0

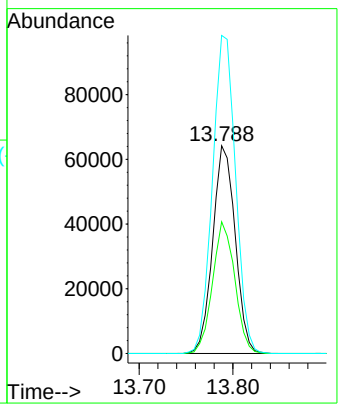




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN084304.D
Acq: 03 Oct 2024 17:27

Tgt Ion:152 Resp: 107062

Ion	Ratio	Lower	Upper
152	100		
115	62.5	31.3	93.9
150	157.4	0.0	349.8



Instrument :
MSVOA_N
ClientSampleId :
Chamberlain Ave

Manual Integrations
APPROVED

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Supervised By :Mahesh Dadoda 10/04/2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084285.D
Acq On : 03 Oct 2024 09:42
Operator : JC\MD
Sample : VN1003WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBL01

Quant Time: Oct 04 01:29:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

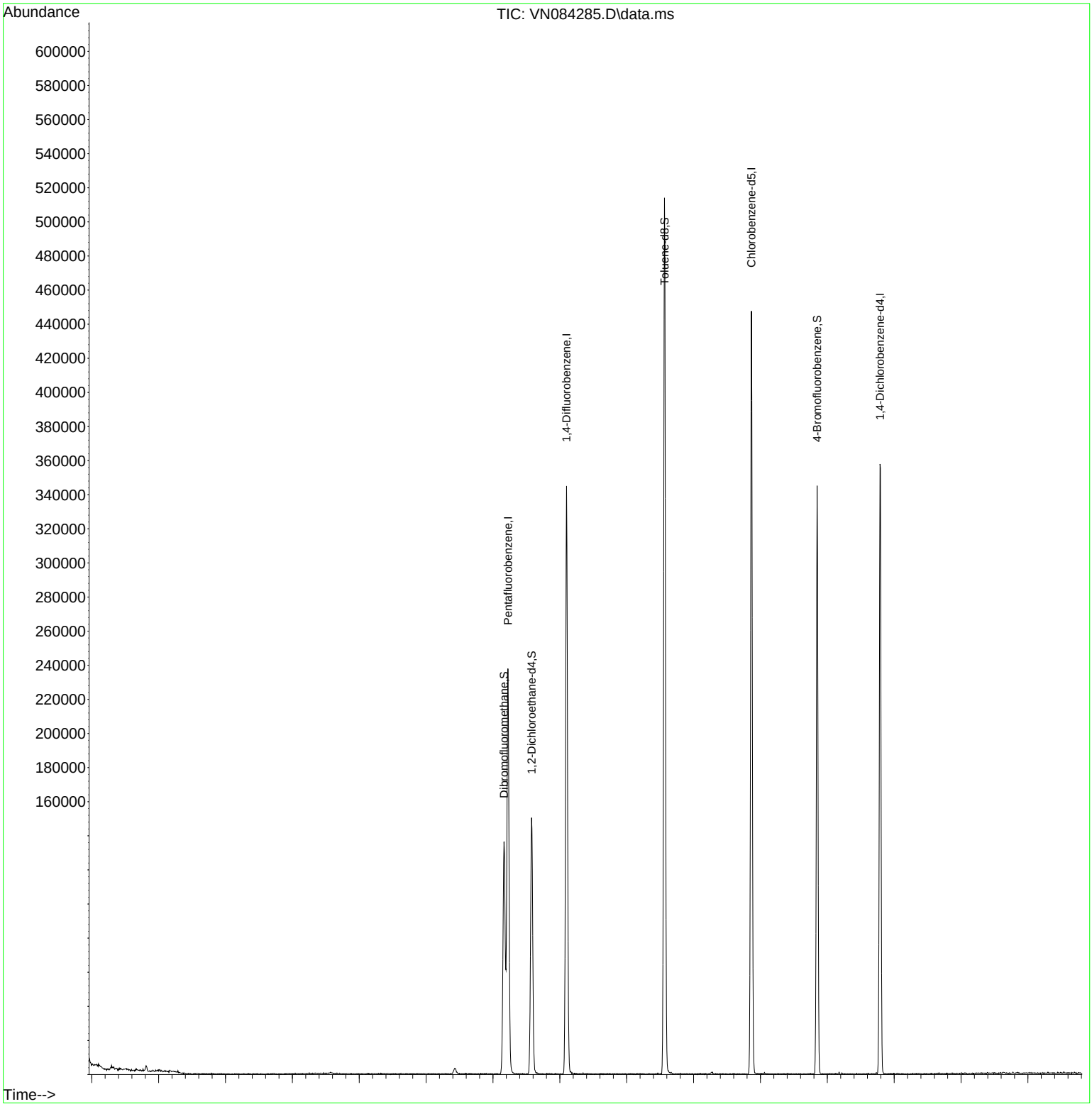
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	163611	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	286487	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	249556	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	98264	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	125911	51.904	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.800%			
35) Dibromofluoromethane	8.165	113	98018	51.897	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.800%			
50) Toluene-d8	10.565	98	350297	50.412	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.820%			
62) 4-Bromofluorobenzene	12.847	95	117713	46.499	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.000%			
Target Compounds						Qvalue

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

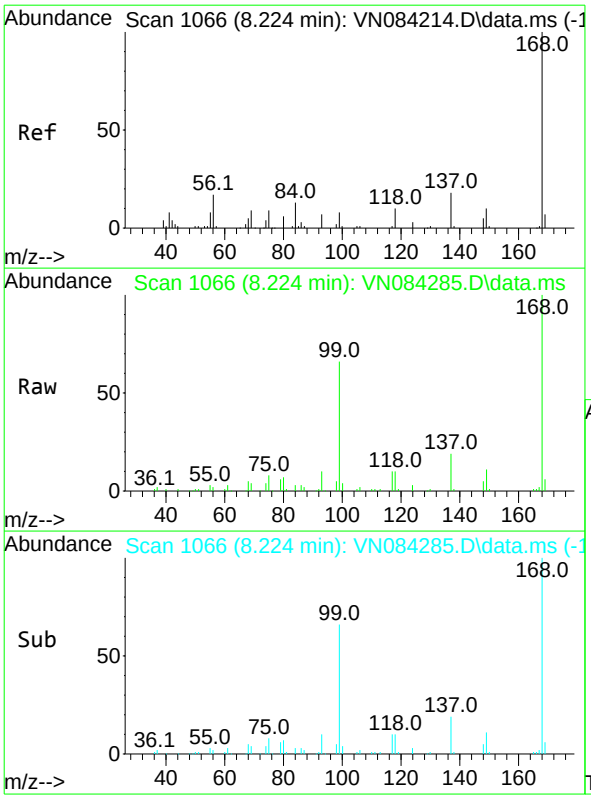
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084285.D
Acq On : 03 Oct 2024 09:42
Operator : JC\MD
Sample : VN1003WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBL01

Quant Time: Oct 04 01:29:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



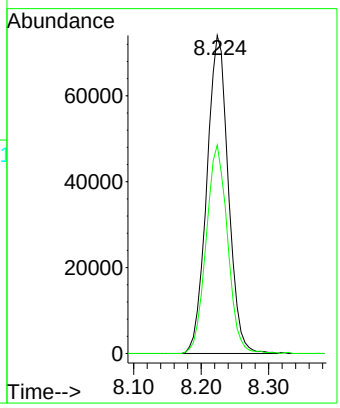
Instrument :
MSVOA_N
ClientSampleId :
VN1003WBL01

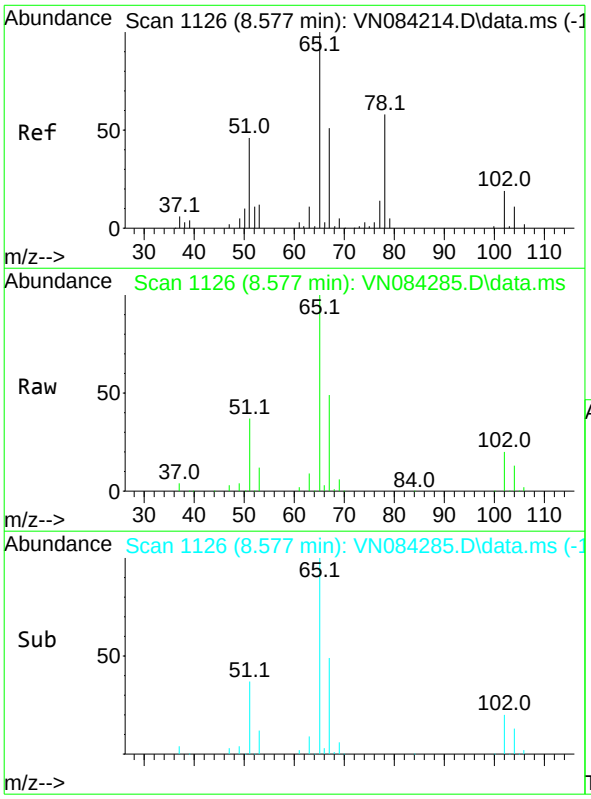


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Tgt Ion:168 Resp: 163611

Ion	Ratio	Lower	Upper
168	100		
99	65.5	54.2	81.2

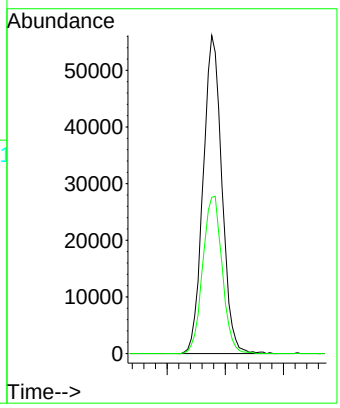


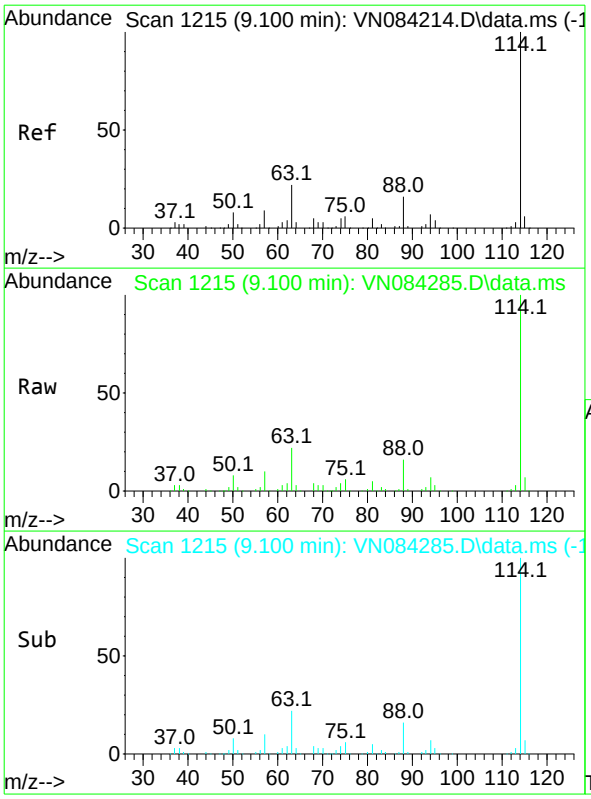


#33
1,2-Dichloroethane-d4
Concen: 51.904 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Tgt Ion: 65 Resp: 125911

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	102.0



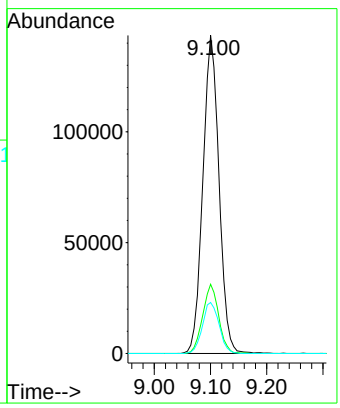


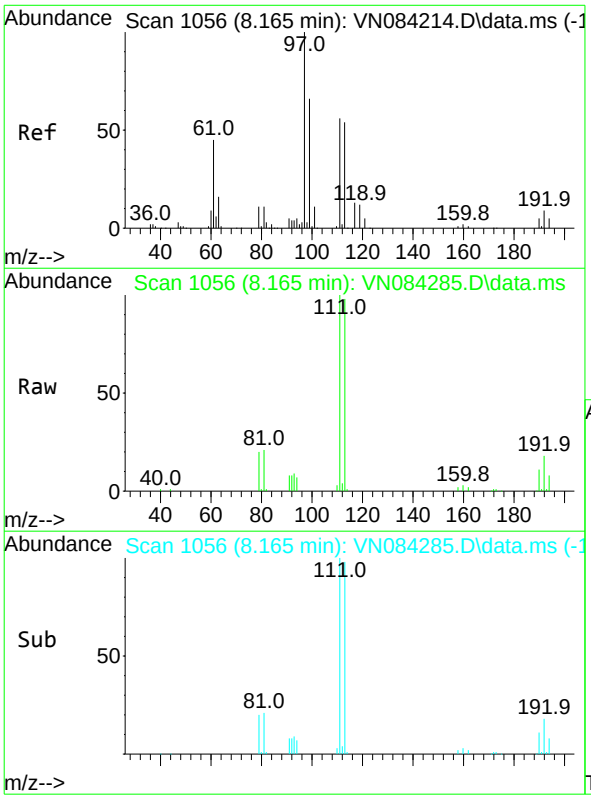
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBL01

Tgt Ion:114 Resp: 286487

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.8
88	16.0	0.0	31.6

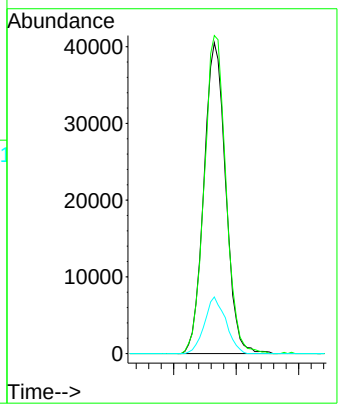


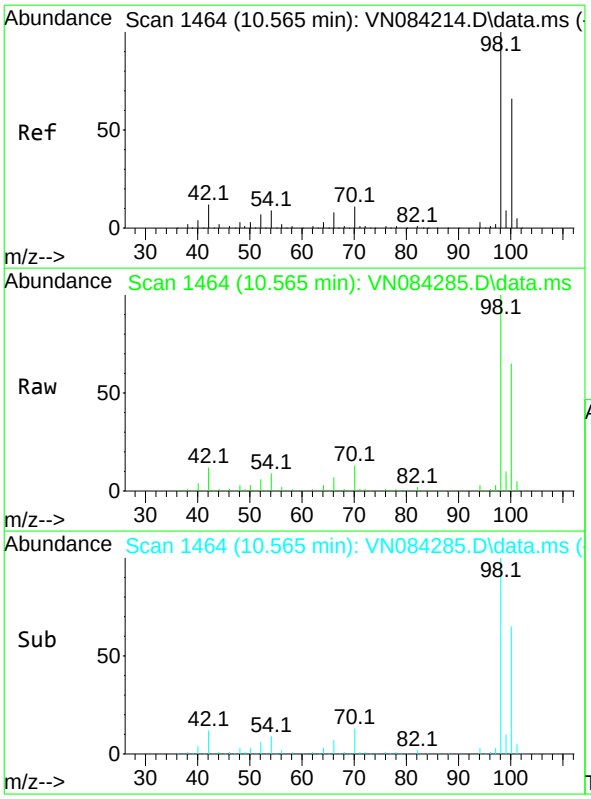


#35
Dibromofluoromethane
Concen: 51.897 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Tgt Ion:113 Resp: 98018

Ion	Ratio	Lower	Upper
113	100		
111	102.2	83.3	124.9
192	17.9	13.5	20.3



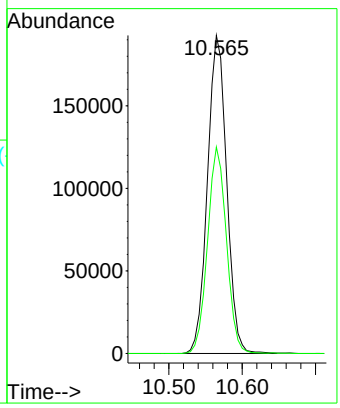


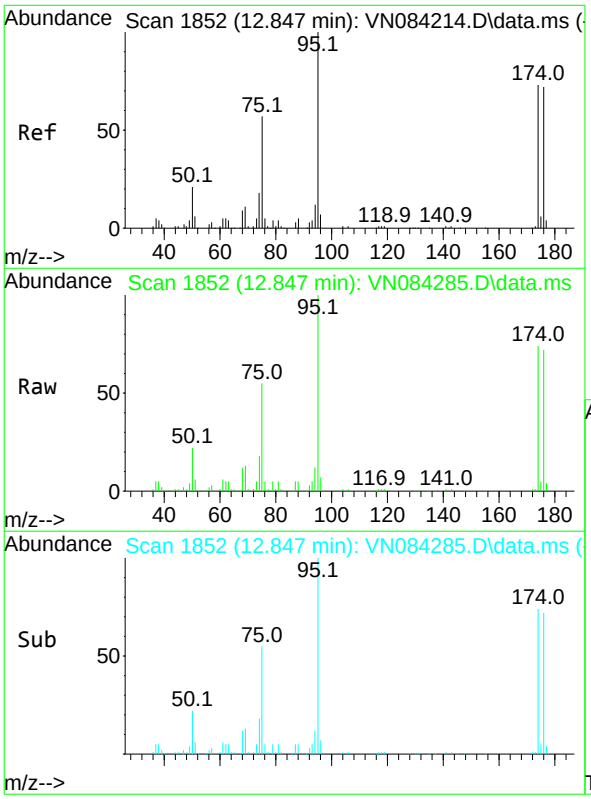
#50
Toluene-d8
Concen: 50.412 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBL01

Tgt Ion: 98 Resp: 350297

Ion	Ratio	Lower	Upper
98	100		
100	63.9	52.7	79.1

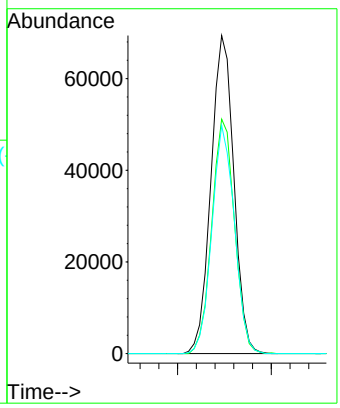


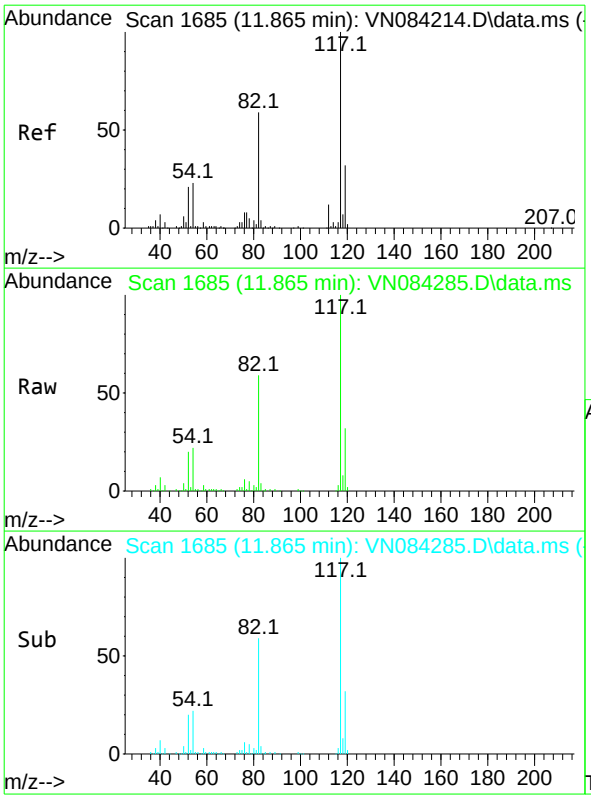


#62
4-Bromofluorobenzene
Concen: 46.499 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Tgt Ion: 95 Resp: 117713

Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	145.2
176	70.7	0.0	140.0



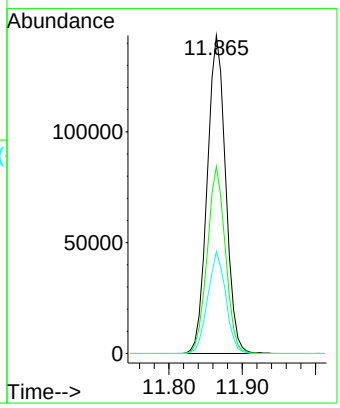


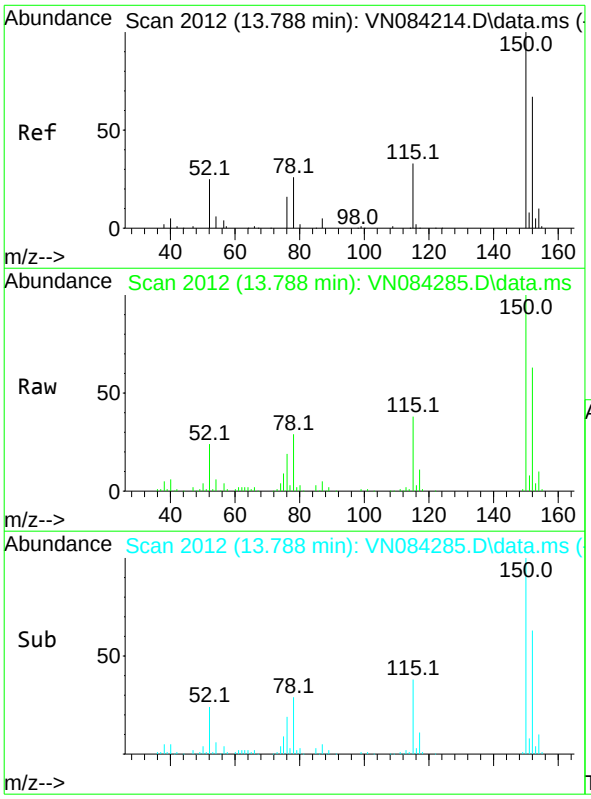
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBL01

Tgt Ion:117 Resp: 249556

Ion	Ratio	Lower	Upper
117	100		
82	58.8	47.2	70.8
119	32.1	25.4	38.0

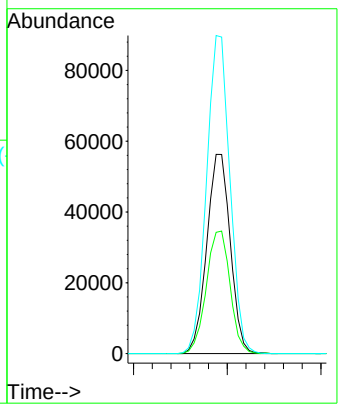




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084285.D
Acq: 03 Oct 2024 09:42

Tgt Ion:152 Resp: 98264

Ion	Ratio	Lower	Upper
152	100		
115	62.2	31.3	93.9
150	158.1	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084286.D
Acq On : 03 Oct 2024 10:05
Operator : JC\MD
Sample : VN1003WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 01:29:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	164341	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	282487	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	252092	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119632	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	128542	52.753	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.500%			
35) Dibromofluoromethane	8.165	113	101663	54.589	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.180%			
50) Toluene-d8	10.565	98	385143	56.211	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 112.420%			
62) 4-Bromofluorobenzene	12.847	95	132668	53.149	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	37946	19.520	ug/l	90
3) Chloromethane	2.359	50	42644	19.213	ug/l	95
4) Vinyl Chloride	2.518	62	42326	19.686	ug/l	92
5) Bromomethane	2.959	94	26888	18.960	ug/l	88
6) Chloroethane	3.124	64	29003	18.836	ug/l	99
7) Trichlorofluoromethane	3.500	101	67007	20.014	ug/l	97
8) Diethyl Ether	3.965	74	22766	18.335	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	38872	20.263	ug/l	99
10) Methyl Iodide	4.589	142	47328	19.158	ug/l	98
11) Tert butyl alcohol	5.518	59	35351	87.985	ug/l	99
12) 1,1-Dichloroethene	4.347	96	36356	19.648	ug/l	95
13) Acrolein	4.183	56	38224	82.869	ug/l	100
14) Allyl chloride	5.030	41	56420	17.557	ug/l	99
15) Acrylonitrile	5.724	53	101779	100.312	ug/l	98
16) Acetone	4.424	43	101990	97.436	ug/l	97
17) Carbon Disulfide	4.718	76	103177	17.612	ug/l	98
18) Methyl Acetate	5.030	43	45974	20.151	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	120712	19.328	ug/l	98
20) Methylene Chloride	5.271	84	41628	19.564	ug/l	93
21) trans-1,2-Dichloroethene	5.794	96	38678	19.952	ug/l	98
22) Diisopropyl ether	6.665	45	131911	19.845	ug/l	97
23) Vinyl Acetate	6.600	43	479948	97.350	ug/l	98
24) 1,1-Dichloroethane	6.571	63	75046	20.189	ug/l	100
25) 2-Butanone	7.482	43	139938	98.156	ug/l	100
26) 2,2-Dichloropropane	7.494	77	65602	19.573	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	44983	19.202	ug/l	99
28) Bromochloromethane	7.812	49	34800	20.982	ug/l	99
29) Tetrahydrofuran	7.841	42	86917	98.791	ug/l	99
30) Chloroform	7.959	83	79579	20.610	ug/l	88
31) Cyclohexane	8.259	56	65990	18.284	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	69786	20.124	ug/l	98
36) 1,1-Dichloropropene	8.371	75	52871	19.545	ug/l	99
37) Ethyl Acetate	7.559	43	54681	19.703	ug/l	99
38) Carbon Tetrachloride	8.359	117	59508	20.054	ug/l	97
39) Methylcyclohexane	9.600	83	57135	18.977	ug/l	97
40) Benzene	8.606	78	169934	20.163	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084286.D
Acq On : 03 Oct 2024 10:05
Operator : JC\MD
Sample : VN1003WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 01:29:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	30342	20.139 ug/l		98
42) 1,2-Dichloroethane	8.671	62	58375	20.430 ug/l		99
43) Isopropyl Acetate	8.688	43	90050	16.566 ug/l		99
44) Trichloroethene	9.353	130	39275	19.952 ug/l		98
45) 1,2-Dichloropropane	9.618	63	40482	20.304 ug/l		90
46) Dibromomethane	9.706	93	29128	21.649 ug/l		100
47) Bromodichloromethane	9.882	83	62105	20.776 ug/l	#	98
48) Methyl methacrylate	9.682	41	43156	19.944 ug/l		98
49) 1,4-Dioxane	9.694	88	15977	401.063 ug/l		98
51) 4-Methyl-2-Pentanone	10.447	43	275703	104.359 ug/l		100
52) Toluene	10.629	92	104206	20.275 ug/l		99
53) t-1,3-Dichloropropene	10.835	75	59860	19.645 ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	66153	20.184 ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	39141	21.244 ug/l		93
56) Ethyl methacrylate	10.870	69	58544	19.311 ug/l		97
57) 1,3-Dichloropropane	11.165	76	66842	20.303 ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	137654	97.878 ug/l		98
59) 2-Hexanone	11.194	43	202204	102.404 ug/l		98
60) Dibromochloromethane	11.359	129	44640	20.506 ug/l		97
61) 1,2-Dibromoethane	11.470	107	38918	20.328 ug/l		99
64) Tetrachloroethene	11.100	164	35391	20.156 ug/l		94
65) Chlorobenzene	11.894	112	109976	19.676 ug/l		91
66) 1,1,1,2-Tetrachloroethane	11.959	131	38431	19.962 ug/l		99
67) Ethyl Benzene	11.959	91	188894	19.109 ug/l		98
68) m/p-Xylenes	12.070	106	146376	40.032 ug/l		100
69) o-Xylene	12.400	106	69553	20.105 ug/l		100
70) Styrene	12.412	104	120069	20.491 ug/l		98
71) Bromoform	12.576	173	29374	20.724 ug/l	#	100
73) Isopropylbenzene	12.694	105	175830	19.261 ug/l		100
74) N-amyl acetate	12.494	43	78313	18.944 ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	55997	20.399 ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	48032m	19.667 ug/l		
77) Bromobenzene	12.982	156	42701	19.392 ug/l		99
78) n-propylbenzene	13.035	91	212999	20.138 ug/l		99
79) 2-Chlorotoluene	13.123	91	130433	19.326 ug/l		98
80) 1,3,5-Trimethylbenzene	13.170	105	152396	20.465 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	18144	17.811 ug/l		89
82) 4-Chlorotoluene	13.217	91	135472	19.939 ug/l		99
83) tert-Butylbenzene	13.435	119	128099	19.354 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	152506	20.330 ug/l		100
85) sec-Butylbenzene	13.617	105	176605	19.996 ug/l		100
86) p-Isopropyltoluene	13.729	119	145368	19.904 ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	80246	19.425 ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	80561	19.311 ug/l		99
89) n-Butylbenzene	14.053	91	122113	18.439 ug/l		99
90) Hexachloroethane	14.335	117	29500	19.900 ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	77393	19.106 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11229	19.823 ug/l		93
93) 1,2,4-Trichlorobenzene	15.388	180	35283	17.684 ug/l		99
94) Hexachlorobutadiene	15.500	225	17527	17.616 ug/l		97
95) Naphthalene	15.641	128	105992	16.025 ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	36046	18.049 ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084286.D
Acq On : 03 Oct 2024 10:05
Operator : JC\MD
Sample : VN1003WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 01:29:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

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

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

Sample Results: **VN084286.D**

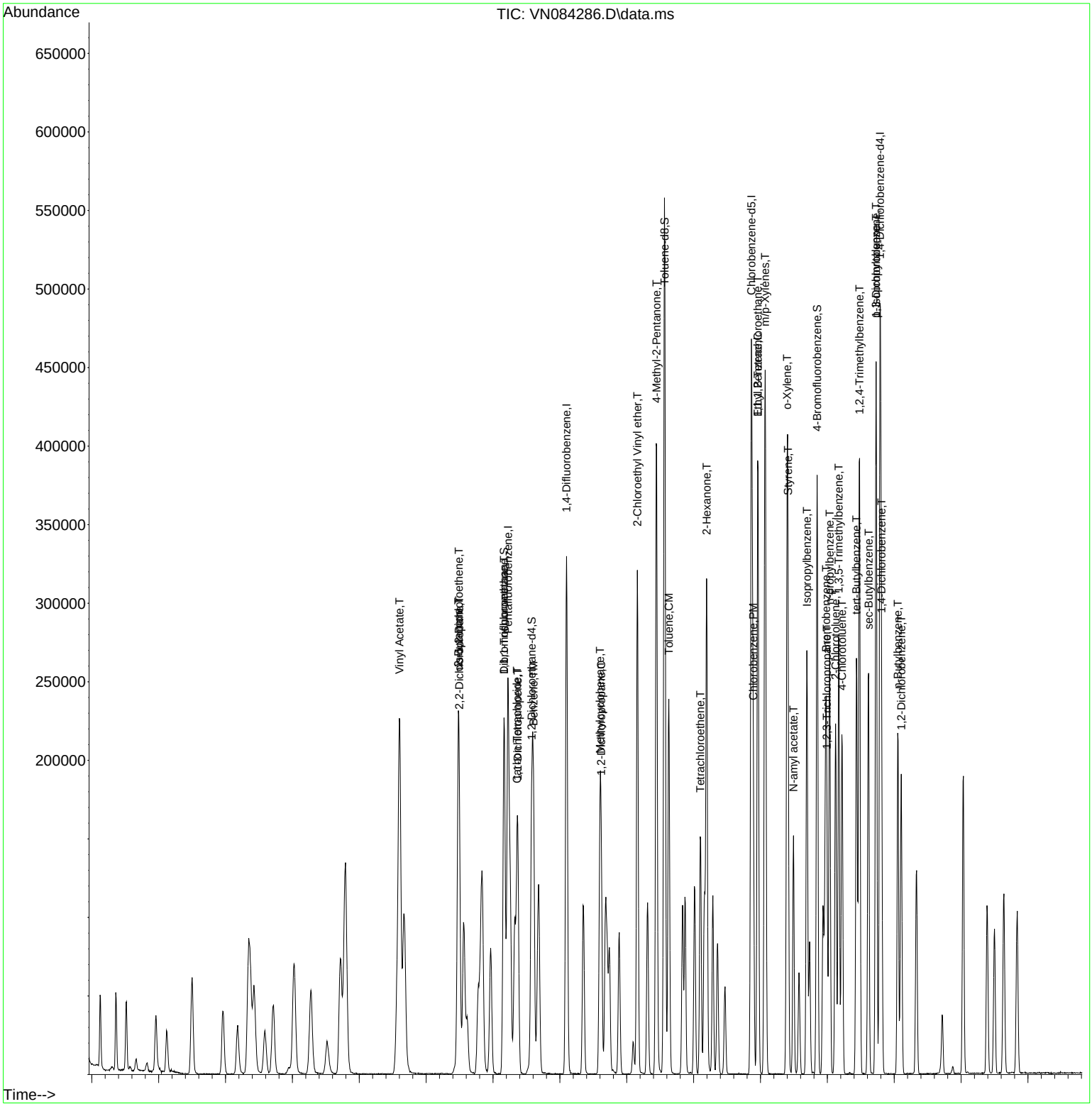
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084286.D
Acq On : 03 Oct 2024 10:05
Operator : JC\MD
Sample : VN1003WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 01:29:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084287.D
Acq On : 03 Oct 2024 10:40
Operator : JC\MD
Sample : VN1003WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 01:30:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	156141	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	268205	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	240791	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	117079	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	126965	54.843	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.680%			
35) Dibromofluoromethane	8.165	113	97332	55.047	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.100%			
50) Toluene-d8	10.565	98	356552	54.809	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 109.620%			
62) 4-Bromofluorobenzene	12.847	95	129600	54.685	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	36360	19.687	ug/l	94
3) Chloromethane	2.365	50	40309	19.114	ug/l	97
4) Vinyl Chloride	2.518	62	40198	19.679	ug/l	97
5) Bromomethane	2.965	94	25935	19.248	ug/l	97
6) Chloroethane	3.124	64	27671	18.915	ug/l	95
7) Trichlorofluoromethane	3.500	101	62722	19.718	ug/l	100
8) Diethyl Ether	3.965	74	22765	19.297	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.377	101	38730	21.250	ug/l	97
10) Methyl Iodide	4.589	142	47462	20.221	ug/l	95
11) Tert butyl alcohol	5.518	59	35686	93.483	ug/l	99
12) 1,1-Dichloroethene	4.342	96	34247	19.480	ug/l	98
13) Acrolein	4.183	56	38359	87.529	ug/l	100
14) Allyl chloride	5.024	41	55508	18.180	ug/l	98
15) Acrylonitrile	5.718	53	100479	104.232	ug/l	97
16) Acetone	4.430	43	93734	94.251	ug/l	99
17) Carbon Disulfide	4.718	76	99830	17.935	ug/l	100
18) Methyl Acetate	5.030	43	45251	20.876	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	122104	20.578	ug/l	100
20) Methylene Chloride	5.271	84	41574	20.565	ug/l	86
21) trans-1,2-Dichloroethene	5.789	96	36911	20.040	ug/l	99
22) Diisopropyl ether	6.671	45	132716	21.015	ug/l	97
23) Vinyl Acetate	6.606	43	494150	105.494	ug/l	99
24) 1,1-Dichloroethane	6.571	63	72893	20.639	ug/l	99
25) 2-Butanone	7.483	43	135725	100.200	ug/l	98
26) 2,2-Dichloropropane	7.488	77	60055	18.859	ug/l	96
27) cis-1,2-Dichloroethene	7.483	96	44504	19.996	ug/l	99
28) Bromochloromethane	7.812	49	36194	22.969	ug/l	99
29) Tetrahydrofuran	7.841	42	86041	102.931	ug/l	99
30) Chloroform	7.965	83	76104	20.745	ug/l	98
31) Cyclohexane	8.259	56	63688	18.573	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	66380	20.147	ug/l	95
36) 1,1-Dichloropropene	8.371	75	49686	19.346	ug/l	99
37) Ethyl Acetate	7.565	43	52477	19.916	ug/l	98
38) Carbon Tetrachloride	8.359	117	57204	20.304	ug/l	97
39) Methylcyclohexane	9.600	83	55154	19.295	ug/l	99
40) Benzene	8.606	78	166211	20.771	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084287.D
Acq On : 03 Oct 2024 10:40
Operator : JC\MD
Sample : VN1003WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 01:30:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.783	41	29683	20.751 ug/l		98
42) 1,2-Dichloroethane	8.671	62	58993	21.746 ug/l		99
43) Isopropyl Acetate	8.688	43	88817	17.209 ug/l		98
44) Trichloroethene	9.353	130	37201	19.905 ug/l		93
45) 1,2-Dichloropropane	9.618	63	40803	21.555 ug/l		96
46) Dibromomethane	9.706	93	29220	22.874 ug/l		98
47) Bromodichloromethane	9.888	83	60940	21.472 ug/l		99
48) Methyl methacrylate	9.682	41	42304	20.591 ug/l		98
49) 1,4-Dioxane	9.694	88	16004	423.134 ug/l		96
51) 4-Methyl-2-Pentanone	10.441	43	270510	107.846 ug/l		100
52) Toluene	10.629	92	100302	20.555 ug/l		97
53) t-1,3-Dichloropropene	10.835	75	58839	20.338 ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	64371	20.686 ug/l		94
55) 1,1,2-Trichloroethane	11.018	97	39008	22.299 ug/l		96
56) Ethyl methacrylate	10.871	69	59987	20.840 ug/l		98
57) 1,3-Dichloropropane	11.165	76	66561	21.294 ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	139786	104.687 ug/l		100
59) 2-Hexanone	11.194	43	198433	105.845 ug/l		98
60) Dibromochloromethane	11.359	129	45813	22.165 ug/l		98
61) 1,2-Dibromoethane	11.471	107	38918	21.411 ug/l		99
64) Tetrachloroethene	11.100	164	34099	20.332 ug/l		94
65) Chlorobenzene	11.894	112	108952	20.407 ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	38392	20.877 ug/l		97
67) Ethyl Benzene	11.965	91	183902	19.478 ug/l		100
68) m/p-Xylenes	12.070	106	144563	41.392 ug/l		98
69) o-Xylene	12.394	106	66715	20.190 ug/l		99
70) Styrene	12.412	104	115957	20.718 ug/l		99
71) Bromoform	12.576	173	29230	21.590 ug/l	#	96
73) Isopropylbenzene	12.694	105	170131	19.043 ug/l		100
74) N-amyl acetate	12.494	43	76380	18.879 ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	53725	19.999 ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	46336m	19.386 ug/l		
77) Bromobenzene	12.976	156	42326	19.640 ug/l		99
78) n-propylbenzene	13.035	91	205979	19.899 ug/l		99
79) 2-Chlorotoluene	13.123	91	128715	19.487 ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	146969	20.167 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	18636	18.693 ug/l		97
82) 4-Chlorotoluene	13.217	91	133150	20.025 ug/l		99
83) tert-Butylbenzene	13.435	119	124662	19.246 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	149658	20.385 ug/l		100
85) sec-Butylbenzene	13.617	105	172092	19.910 ug/l		99
86) p-Isopropyltoluene	13.729	119	141757	19.833 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	79774	19.732 ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	79022	19.355 ug/l		99
89) n-Butylbenzene	14.059	91	121728	18.782 ug/l		99
90) Hexachloroethane	14.335	117	27869	19.209 ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	77582	19.571 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10820	19.518 ug/l		94
93) 1,2,4-Trichlorobenzene	15.394	180	36612	18.751 ug/l		98
94) Hexachlorobutadiene	15.500	225	16640	17.089 ug/l		99
95) Naphthalene	15.641	128	107461	16.601 ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	36465	18.657 ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084287.D
Acq On : 03 Oct 2024 10:40
Operator : JC\MD
Sample : VN1003WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 01:30:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024

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

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

Sample Results: **VN084287.D**

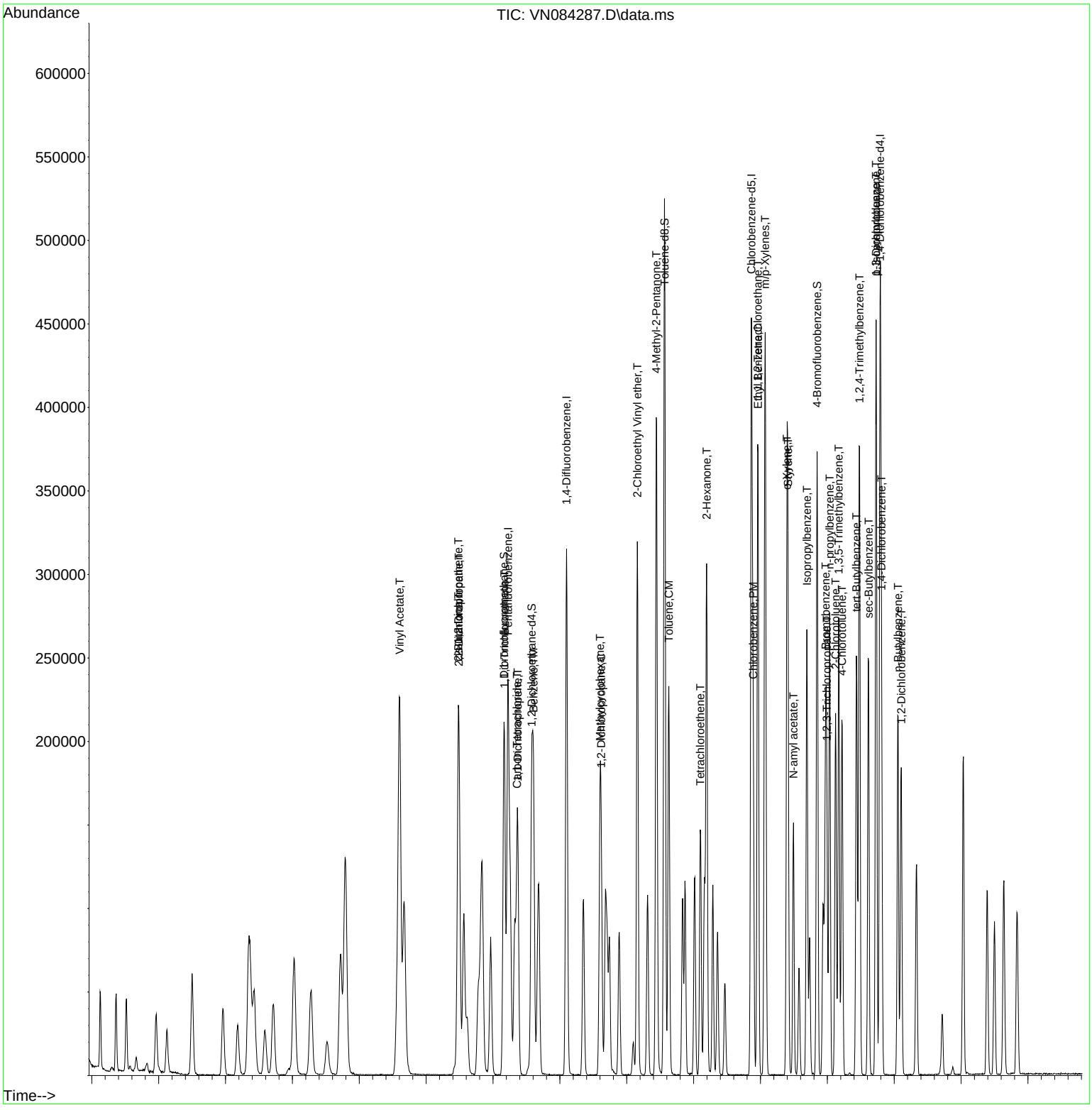
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
Data File : VN084287.D
Acq On : 03 Oct 2024 10:40
Operator : JC\MD
Sample : VN1003WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 01:30:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/04/2024
Supervised By :Mahesh Dadoda 10/04/2024



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

Manual Integration Report

Sequence:	vn093024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084213.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:48 AM	MMDadoda	10/1/2024 5:34:17 PM	Peak Integrated by Software
VSTDICCC050	VN084214.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:52 AM	MMDadoda	10/1/2024 5:34:19 PM	Peak Integrated by Software
VSTDICC020	VN084215.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:57 AM	MMDadoda	10/1/2024 5:34:21 PM	Peak Integrated by Software
VSTDICC010	VN084216.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:06 AM	MMDadoda	10/1/2024 5:34:22 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	1,1,2-Trichlorotrifluoroethane	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	Isopropyl Acetate	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	trans-1,2-Dichloroethene	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	Vinyl Acetate	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	1,4-Dichlorobenzene	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	Allyl chloride	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	Isopropyl Acetate	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn093024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN084218.D	Vinyl Acetate	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICV050	VN084220.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:38:01 AM	MMDadoda	10/1/2024 5:34:27 PM	Peak Integrated by Software
VSTDCCC050	VN084229.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:38:17 AM	MMDadoda	10/1/2024 5:34:32 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN100324	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084283.D	1,2,3-Trichloropropane	JOHN	10/4/2024 9:46:46 AM	MMDadoda	10/4/2024 10:15:55 AM	Peak Integrated by Software
VSTDCCC050	VN084283.D	trans-1,4-Dichloro-2-but ene	JOHN	10/4/2024 9:46:46 AM	MMDadoda	10/4/2024 10:15:55 AM	Peak Integrated by Software
VN1003WBS01	VN084286.D	1,2,3-Trichloropropane	JOHN	10/4/2024 9:46:50 AM	MMDadoda	10/4/2024 10:15:56 AM	Peak Integrated by Software
VN1003WBSD0 1	VN084287.D	1,2,3-Trichloropropane	JOHN	10/4/2024 9:46:55 AM	MMDadoda	10/4/2024 10:15:57 AM	Peak Integrated by Software
P4258-04	VN084304.D	Isopropyl Acetate	JOHN	10/4/2024 9:48:30 AM	MMDadoda	10/4/2024 10:16:05 AM	Peak Integrated by Software
VSTDCCC050	VN084305.D	1,2,3-Trichloropropane	JOHN	10/4/2024 9:48:35 AM	MMDadoda	10/4/2024 10:16:05 AM	Peak Integrated by Software

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084211.D	30 Sep 2024 09:24	JC\MD	Ok
2	VSTDCCC050	VN084212.D	30 Sep 2024 11:45	JC\MD	Not Ok
3	VSTDICC100	VN084213.D	30 Sep 2024 12:25	JC\MD	Ok,M
4	VSTDICCC050	VN084214.D	30 Sep 2024 12:49	JC\MD	Ok,M
5	VSTDICC020	VN084215.D	30 Sep 2024 13:13	JC\MD	Ok,M
6	VSTDICC010	VN084216.D	30 Sep 2024 13:37	JC\MD	Ok,M
7	VSTDICC005	VN084217.D	30 Sep 2024 14:00	JC\MD	Ok,M
8	VSTDICC001	VN084218.D	30 Sep 2024 14:48	JC\MD	Ok,M
9	IBLK	VN084219.D	30 Sep 2024 15:12	JC\MD	Ok
10	VSTDICV050	VN084220.D	30 Sep 2024 15:36	JC\MD	Ok,M
11	VN0930MBL01	VN084221.D	30 Sep 2024 16:11	JC\MD	Ok
12	VN0930WBL01	VN084222.D	30 Sep 2024 16:35	JC\MD	Ok
13	VN0930WBS01	VN084223.D	30 Sep 2024 17:42	JC\MD	Ok,M
14	VN0930WBSD01	VN084224.D	30 Sep 2024 18:06	JC\MD	Ok,M
15	P4116-24	VN084225.D	30 Sep 2024 18:30	JC\MD	Dilution
16	P4116-25	VN084226.D	30 Sep 2024 18:54	JC\MD	Dilution
17	P4116-26	VN084227.D	30 Sep 2024 19:18	JC\MD	Dilution
18	P4116-27	VN084228.D	30 Sep 2024 19:42	JC\MD	Dilution
19	VSTDCCC050	VN084229.D	30 Sep 2024 20:06	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN100324

Review By	John Carlone	Review On	10/4/2024 9:52:33 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/4/2024 10:16:10 AM		
SubDirectory	VN100324	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130658
Initial Calibration Stds	
CCC	VP130659,VP130660
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084282.D	03 Oct 2024 08:20	JC\MD	Ok
2	VSTDCCC050	VN084283.D	03 Oct 2024 08:43	JC\MD	Ok,M
3	VN1003MBL01	VN084284.D	03 Oct 2024 09:18	JC\MD	Ok
4	VN1003WBL01	VN084285.D	03 Oct 2024 09:42	JC\MD	Ok
5	VN1003WBS01	VN084286.D	03 Oct 2024 10:05	JC\MD	Ok,M
6	VN1003WBSD01	VN084287.D	03 Oct 2024 10:40	JC\MD	Ok,M
7	P4226-09DL	VN084288.D	03 Oct 2024 11:04	JC\MD	Ok
8	P4226-13DL	VN084289.D	03 Oct 2024 11:28	JC\MD	Ok
9	P4226-14	VN084290.D	03 Oct 2024 11:52	JC\MD	Ok
10	P4226-15	VN084291.D	03 Oct 2024 12:16	JC\MD	Ok
11	P4226-29	VN084292.D	03 Oct 2024 12:40	JC\MD	Ok
12	P4226-19	VN084293.D	03 Oct 2024 13:04	JC\MD	Ok
13	P4226-20	VN084294.D	03 Oct 2024 13:28	JC\MD	Ok
14	P4226-27	VN084295.D	03 Oct 2024 13:52	JC\MD	Ok
15	P4226-28	VN084296.D	03 Oct 2024 14:16	JC\MD	Ok
16	P4226-23	VN084297.D	03 Oct 2024 14:39	JC\MD	Dilution
17	P4226-24MS	VN084298.D	03 Oct 2024 15:03	JC\MD	Ok,M
18	P4226-25MSD	VN084299.D	03 Oct 2024 15:27	JC\MD	Ok,M
19	IBLK	VN084300.D	03 Oct 2024 15:51	JC\MD	Ok
20	IBLK	VN084301.D	03 Oct 2024 16:15	JC\MD	Ok
21	P4226-23DL	VN084302.D	03 Oct 2024 16:39	JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN100324

Review By	John Carlone	Review On	10/4/2024 9:52:33 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/4/2024 10:16:10 AM		
SubDirectory	VN100324	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130658
Initial Calibration Stds	
CCC	VP130659,VP130660
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4285-03	VN084303.D	03 Oct 2024 17:03	JC\MD	Not Ok
23	P4258-04	VN084304.D	03 Oct 2024 17:27	JC\MD	Ok,M
24	VSTDCCC050	VN084305.D	03 Oct 2024 17:51	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084211.D	30 Sep 2024 09:24		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084212.D	30 Sep 2024 11:45	Need ICAL	JC\MD	Not Ok
3	VSTDICC100	VSTDICC100	VN084213.D	30 Sep 2024 12:25		JC\MD	Ok,M
4	VSTDICCC050	VSTDICCC050	VN084214.D	30 Sep 2024 12:49		JC\MD	Ok,M
5	VSTDICC020	VSTDICC020	VN084215.D	30 Sep 2024 13:13		JC\MD	Ok,M
6	VSTDICC010	VSTDICC010	VN084216.D	30 Sep 2024 13:37		JC\MD	Ok,M
7	VSTDICC005	VSTDICC005	VN084217.D	30 Sep 2024 14:00		JC\MD	Ok,M
8	VSTDICC001	VSTDICC001	VN084218.D	30 Sep 2024 14:48		JC\MD	Ok,M
9	IBLK	IBLK	VN084219.D	30 Sep 2024 15:12		JC\MD	Ok
10	VSTDICV050	ICVVN093024	VN084220.D	30 Sep 2024 15:36		JC\MD	Ok,M
11	VN0930MBL01	VN0930MBL01	VN084221.D	30 Sep 2024 16:11		JC\MD	Ok
12	VN0930WBL01	VN0930WBL01	VN084222.D	30 Sep 2024 16:35		JC\MD	Ok
13	VN0930WBS01	VN0930WBS01	VN084223.D	30 Sep 2024 17:42		JC\MD	Ok,M
14	VN0930WBSD01	VN0930WBSD01	VN084224.D	30 Sep 2024 18:06		JC\MD	Ok,M
15	P4116-24	RE132D5-20240918	VN084225.D	30 Sep 2024 18:30	vial A pH<2 Need 2x	JC\MD	Dilution
16	P4116-25	RE132D6-20240918	VN084226.D	30 Sep 2024 18:54	vial A pH<2 Need 40X	JC\MD	Dilution
17	P4116-26	RE132D7-20240918	VN084227.D	30 Sep 2024 19:18	vial A pH<2 Need 40X	JC\MD	Dilution
18	P4116-27	DUP05-20240918	VN084228.D	30 Sep 2024 19:42	vial A pH<2 Need 2x	JC\MD	Dilution

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC050	VSTDCCC050EC	VN084229.D	30 Sep 2024 20:06		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN100324

Review By	John Carlone	Review On	10/4/2024 9:52:33 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/4/2024 10:16:10 AM		
SubDirectory	VN100324	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130658
Initial Calibration Stds	
CCC	VP130659,VP130660
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084282.D	03 Oct 2024 08:20		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084283.D	03 Oct 2024 08:43	V13516	JC\MD	Ok,M
3	VN1003MBL01	VN1003MBL01	VN084284.D	03 Oct 2024 09:18		JC\MD	Ok
4	VN1003WBL01	VN1003WBL01	VN084285.D	03 Oct 2024 09:42		JC\MD	Ok
5	VN1003WBS01	VN1003WBS01	VN084286.D	03 Oct 2024 10:05		JC\MD	Ok,M
6	VN1003WBSD01	VN1003WBSD01	VN084287.D	03 Oct 2024 10:40		JC\MD	Ok,M
7	P4226-09DL	DUP07-20240924DL	VN084288.D	03 Oct 2024 11:04	vial B pH<2	JC\MD	Ok
8	P4226-13DL	TT101D2-20240925DL	VN084289.D	03 Oct 2024 11:28	vial B pH<2	JC\MD	Ok
9	P4226-14	TT205S1-20240925	VN084290.D	03 Oct 2024 11:52	vial B pH<2	JC\MD	Ok
10	P4226-15	RW9-MW-01S-2024092	VN084291.D	03 Oct 2024 12:16	vial B pH<2	JC\MD	Ok
11	P4226-29	TB	VN084292.D	03 Oct 2024 12:40	vial A pH<2 TB	JC\MD	Ok
12	P4226-19	DUP09-20240925	VN084293.D	03 Oct 2024 13:04	vial A pH<2	JC\MD	Ok
13	P4226-20	DUP10-20240925	VN084294.D	03 Oct 2024 13:28	vial A pH<2	JC\MD	Ok
14	P4226-27	BPOW6-9-20240927	VN084295.D	03 Oct 2024 13:52	vial A pH<2	JC\MD	Ok
15	P4226-28	BPOW6-10-20240927	VN084296.D	03 Oct 2024 14:16	vial A pH<2	JC\MD	Ok
16	P4226-23	RW4-20240927	VN084297.D	03 Oct 2024 14:39	vial A pH<2 Need 10X	JC\MD	Dilution
17	P4226-24MS	RW4-20240927MS	VN084298.D	03 Oct 2024 15:03	vial A pH<2	JC\MD	Ok,M
18	P4226-25MSD	RW4-20240927MSD	VN084299.D	03 Oct 2024 15:27	vial A pH<2	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN100324

Review By	John Carlone	Review On	10/4/2024 9:52:33 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/4/2024 10:16:10 AM		
SubDirectory	VN100324	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130658
Initial Calibration Stds	
CCC	VP130659,VP130660
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	IBLK	IBLK	VN084300.D	03 Oct 2024 15:51		JC\MD	Ok
20	IBLK	IBLK	VN084301.D	03 Oct 2024 16:15		JC\MD	Ok
21	P4226-23DL	RW4-20240927DL	VN084302.D	03 Oct 2024 16:39	vial B pH<2	JC\MD	Ok
22	P4285-03	WATER-TOTES	VN084303.D	03 Oct 2024 17:03	vial A pH<2 Need 10X	JC\MD	Not Ok
23	P4258-04	Chamberlain Ave	VN084304.D	03 Oct 2024 17:27	vial A pH#5.0	JC\MD	Ok,M
24	VSTDCCC050	VSTDCCC050EC	VN084305.D	03 Oct 2024 17:51		JC\MD	Ok,M

M : Manual Integration

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

LAB CHRONICLE

OrderID:	P4258	**OrderDate:**	10/1/2024 1:21:00 PM
Client:	Roman E&G Corp	**Project:**	Perth Amboy
Contact:	Mark Mattheiss	**Location:**	H11,H51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4258-03	**Chamberlain Ave**	**SOIL**			**10/01/24**			**10/01/24**
			VOC-TCLVOA-10	8260D			10/02/24	
P4258-03RE	**Chamberlain AveRE**	**SOIL**			**10/01/24**			**10/01/24**
			VOC-TCLVOA-10	8260D			10/03/24	
P4258-04	**Chamberlain Ave**	**TCLP**			**10/01/24**			**10/01/24**
			TCLP VOA	8260D			10/03/24	

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB163826

SOP ID : M1311-TCLP-14

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : ZHE-1

TCLP Filter ID : 50223706

Start Prep Date : 10/01/2024 **Time :** 15:30

End Prep Date : 10/02/2024 **Time :** 08:45

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JP VX100224

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JP

Supervisor By : IR

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

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

Extraction Conformance/Non-Conformance Comments:

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/02/24 10:00	JP TCLP Room	VOC LAB
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB163826

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
P4232-04	TP-R	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4236-04	TP4	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4236-08	TP3	03	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4236-12	TP1	04	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4236-16	TP2	05	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4242-04	TP-Q	06	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4254-04	MH-147-SLUDGE	07	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4258-04	Chamberlain Ave	08	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
PB163826TB	LEB826	09	N/A	500	N/A	N/A	N/A	4.93	N/A	ZHE-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4232-04	TP-R	N/A	N/A	N/A	N/A	100	N/A
P4236-04	TP4	N/A	N/A	N/A	N/A	100	N/A
P4236-08	TP3	N/A	N/A	N/A	N/A	100	N/A
P4236-12	TP1	N/A	N/A	N/A	N/A	100	N/A
P4236-16	TP2	N/A	N/A	N/A	N/A	100	N/A
P4242-04	TP-Q	N/A	N/A	N/A	N/A	100	N/A
P4254-04	MH-147-SLUDGE	N/A	N/A	N/A	N/A	100	N/A
P4258-04	Chamberlain Ave	N/A	N/A	N/A	N/A	100	N/A
PB163826TB	LEB826	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp zhe p4236 **WorkList ID :** 183991 **Department :** TCLP Extraction **Date :** 10-01-2024 10:09:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4232-04	TP-R	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	J51	09/30/2024	1311 ZHE
P4236-04	TP4	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	J53	09/30/2024	1311 ZHE
P4236-08	TP3	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	J53	09/30/2024	1311 ZHE
P4236-12	TP1	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	J53	09/30/2024	1311 ZHE
P4236-16	TP2	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	J53	09/30/2024	1311 ZHE
P4242-04	TP-Q	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	J51	10/01/2024	1311 ZHE
P4254-04	MH-147-SLUDGE	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	J51	10/01/2024	1311 ZHE
P4258-04	Chamberlain Ave	Solid	TCLP ZHE Extraction	Cool 4 deg C	ROMA02	H11	10/01/2024	1311 ZHE

Date/Time 10/01/24 14:30
Raw Sample Received by: MD WC
Raw Sample Relinquished by: JT Cruz

Date/Time 10/01/24 16:30
Raw Sample Received by: JT Cruz
Raw Sample Relinquished by: MD WC