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

Hit Summary Sheet
SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:

SAMPLE DATA

Raw Data: **VN085947.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB01	SDG No.:	Q1514
Lab Sample ID:	Q1514-02	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085947.D	1		03/11/25 21:29	VN031125

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	59.3		70 (74) - 130 (125)	119%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	51.7		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	154000	8.224			
540-36-3	1,4-Difluorobenzene	299000	9.1			
3114-55-4	Chlorobenzene-d5	282000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	99500	13.794			

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

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

Raw Data: **VN085948.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB02	SDG No.:	Q1514
Lab Sample ID:	Q1514-04	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
VN085948.D	1		03/11/25 21:53	VN031125

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	59.8		70 (74) - 130 (125)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.7		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	150000	8.224			
540-36-3	1,4-Difluorobenzene	296000	9.1			
3114-55-4	Chlorobenzene-d5	287000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	110000	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

Raw Data: **VN085949.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-103-SB01	SDG No.:	Q1514
Lab Sample ID:	Q1514-06	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
VN085949.D	1		03/11/25 22:17	VN031125

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	58.2		70 (74) - 130 (125)	116%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		70 (75) - 130 (124)	98%	SPK: 50
2037-26-5	Toluene-d8	49.8		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	159000	8.224			
540-36-3	1,4-Difluorobenzene	316000	9.1			
3114-55-4	Chlorobenzene-d5	300000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	111000	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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1514-02	ENV-105-SB01	1,2-Dichloroethane-d4	50	59.3	119	70 (74)	130 (125)
		Dibromofluoromethane	50	51.0	102	70 (75)	130 (124)
		Toluene-d8	50	51.7	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.5	95	70 (77)	130 (121)
Q1514-04	ENV-105-SB02	1,2-Dichloroethane-d4	50	59.8	120	70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102	70 (75)	130 (124)
		Toluene-d8	50	50.7	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.4	99	70 (77)	130 (121)
Q1514-06	ENV-103-SB01	1,2-Dichloroethane-d4	50	58.2	116	70 (74)	130 (125)
		Dibromofluoromethane	50	49.1	98	70 (75)	130 (124)
		Toluene-d8	50	49.8	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.3	95	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VN0311WBL01	VN0311WBL01	1,2-Dichloroethane-d4	50	56.1	112	70 (74)	130 (125)
		Dibromofluoromethane	50	49.0	98	70 (75)	130 (124)
		Toluene-d8	50	44.5	89	70 (86)	130 (113)
		4-Bromofluorobenzene	50	42.2	84	70 (77)	130 (121)
VN0311WBS01	VN0311WBS01	1,2-Dichloroethane-d4	50	46.9	94	70 (74)	130 (125)
		Dibromofluoromethane	50	46.9	94	70 (75)	130 (124)
		Toluene-d8	50	46.3	93	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.7	97	70 (77)	130 (121)
VN0311WBSD0	VN0311WBSD01	1,2-Dichloroethane-d4	50	47.6	95	70 (74)	130 (125)
		Dibromofluoromethane	50	47.6	95	70 (75)	130 (124)
		Toluene-d8	50	46.6	93	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.2	100	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085931.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0311WBS01	Vinyl chloride	20	17.4	ug/L	87			70 (65)	130 (117)	
	1,1-Dichloroethene	20	19.0	ug/L	95			70 (74)	130 (110)	
	2-Butanone	100	96.2	ug/L	96			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.7	ug/L	99			70 (77)	130 (113)	
	Chloroform	20	19.1	ug/L	96			70 (79)	130 (113)	
	Benzene	20	19.7	ug/L	99			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.8	ug/L	99			70 (80)	130 (115)	
	Trichloroethene	20	17.7	ug/L	89			70 (77)	130 (113)	
	Tetrachloroethene	20	19.1	ug/L	96			70 (67)	130 (123)	
	Chlorobenzene	20	18.5	ug/L	93			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085932.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0311WBSD01	Vinyl chloride	20	17.7	ug/L	89	2		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	18.6	ug/L	93	2		70 (74)	130 (110)	20 (20)
	2-Butanone	100	100	ug/L	100	4		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	20.2	ug/L	101	2		70 (77)	130 (113)	20 (20)
	Chloroform	20	19.0	ug/L	95	1		70 (79)	130 (113)	20 (20)
	Benzene	20	19.8	ug/L	99	0		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.2	ug/L	101	2		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	18.0	ug/L	90	1		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	18.4	ug/L	92	4		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	18.3	ug/L	92	1		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0311WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG NO.: Q1514

Lab File ID: VN085930.D Lab Sample ID: VN0311WBL01

Date Analyzed: 03/11/2025 Time Analyzed: 14:21

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
VN0311WBS01	VN0311WBS01	VN085931.D	03/11/2025
VN0311WBSD01	VN0311WBSD01	VN085932.D	03/11/2025
ENV-105-SB01	Q1514-02	VN085947.D	03/11/2025
ENV-105-SB02	Q1514-04	VN085948.D	03/11/2025
ENV-103-SB01	Q1514-06	VN085949.D	03/11/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG NO.: Q1514

Lab File ID: VN085771.D BFB Injection Date: 02/18/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:35

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	18.1
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	78.9 (96.5) 1
177	5.0 - 9.0% of mass 176	5.4 (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	VN085772.D	02/18/2025	11:09
VSTDICCC050	VSTDICCC050	VN085773.D	02/18/2025	11:32
VSTDICC010	VSTDICC010	VN085775.D	02/18/2025	12:20
VSTDICC005	VSTDICC005	VN085776.D	02/18/2025	12:43
VSTDICC001	VSTDICC001	VN085777.D	02/18/2025	13:07
VSTDICC020	VSTDICC020	VN085779.D	02/18/2025	14:18

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG NO.: Q1514

Lab File ID: VN085927.D BFB Injection Date: 03/11/2025

Instrument ID: MSVOA_N BFB Injection Time: 12:12

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.1 (1.4) 1
174	50.0 - 100.0% of mass 95	78.8
175	5.0 - 9.0% of mass 174	5.7 (7.3) 1
176	95.0 - 101.0% of mass 174	75.9 (96.3) 1
177	5.0 - 9.0% of mass 176	4.9 (6.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN085928.D	03/11/2025	13:22
VN0311WBL01	VN0311WBL01	VN085930.D	03/11/2025	14:21
VN0311WBS01	VN0311WBS01	VN085931.D	03/11/2025	14:54
VN0311WBSD01	VN0311WBSD01	VN085932.D	03/11/2025	15:28
ENV-105-SB01	Q1514-02	VN085947.D	03/11/2025	21:29
ENV-105-SB02	Q1514-04	VN085948.D	03/11/2025	21:53
ENV-103-SB01	Q1514-06	VN085949.D	03/11/2025	22:17

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG NO.: Q1514

Lab File ID: VN085928.D Date Analyzed: 03/11/2025

Instrument ID: MSVOA_N Time Analyzed: 13:22

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	193697	8.22	310218	9.10	283255	11.87
UPPER LIMIT	387394	8.724	620436	9.6	566510	12.365
LOWER LIMIT	96848.5	7.724	155109	8.6	141628	11.365
EPA SAMPLE NO.						
ENV-105-SB01	154053	8.22	299260	9.10	282311	11.87
ENV-105-SB02	150437	8.22	296435	9.10	287045	11.87
ENV-103-SB01	159259	8.22	315656	9.10	300142	11.87
VN0311WBL01	166099	8.22	319285	9.10	277562	11.87
VN0311WBS01	171959	8.22	282309	9.10	250243	11.87
VN0311WBSD01	166815	8.22	269902	9.10	244088	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: PORT06

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG NO.: Q1514

Lab File ID: VN085928.D Date Analyzed: 03/11/2025

Instrument ID: MSVOA_N Time Analyzed: 13:22

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

	IS4 AREA #	RT #				
12 HOUR STD	153775	13.788				
UPPER LIMIT	307550	14.288				
LOWER LIMIT	76887.5	13.288				
EPA SAMPLE NO.						
ENV-105-SB01	99543	13.79				
ENV-105-SB02	110049	13.79				
ENV-103-SB01	110799	13.79				
VN0311WBL01	106492	13.79				
VN0311WBS01	128349	13.79				
VN0311WBSD01	123338	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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0311WBL01	SDG No.:	Q1514
Lab Sample ID:	VN0311WBL01	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
VN085930.D	1		03/11/25 14:21	VN031125

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	56.1		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		70 (75) - 130 (124)	98%	SPK: 50
2037-26-5	Toluene-d8	44.5		70 (86) - 130 (113)	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.2		70 (77) - 130 (121)	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	166000	8.224			
540-36-3	1,4-Difluorobenzene	319000	9.1			
3114-55-4	Chlorobenzene-d5	278000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	106000	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

Raw Data: **VN085931.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0311WBS01	SDG No.:	Q1514
Lab Sample ID:	VN0311WBS01	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
VN085931.D	1		03/11/25 14:54	VN031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.4		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.0		0.26	1.00	ug/L
78-93-3	2-Butanone	96.2		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.25	1.00	ug/L
67-66-3	Chloroform	19.1		0.26	1.00	ug/L
71-43-2	Benzene	19.7		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.7		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	19.1		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.5		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.9		70 (74) - 130 (125)	94%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		70 (75) - 130 (124)	94%	SPK: 50
2037-26-5	Toluene-d8	46.3		70 (86) - 130 (113)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	172000	8.218			
540-36-3	1,4-Difluorobenzene	282000	9.1			
3114-55-4	Chlorobenzene-d5	250000	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

Raw Data: **VN085932.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0311WBSD01	SDG No.:	Q1514
Lab Sample ID:	VN0311WBSD01	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
VN085932.D	1		03/11/25 15:28	VN031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.7		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.6		0.26	1.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.2		0.25	1.00	ug/L
67-66-3	Chloroform	19.0		0.26	1.00	ug/L
71-43-2	Benzene	19.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.2		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.0		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	18.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.3		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.6		70 (74) - 130 (125)	95%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	46.6		70 (86) - 130 (113)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	8.224			
540-36-3	1,4-Difluorobenzene	270000	9.1			
3114-55-4	Chlorobenzene-d5	244000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	123000	13.794			

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

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

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: PORT06

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG No.: Q1514

Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18

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

LAB FILE ID: RRF100 = VN085772.D RRF050 = VN085773.D RRF010 = VN085775.D
RRF005 = VN085776.D RRF001 = VN085777.D RRF020 = VN085779.D

COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	$\overline{RRF}$	% RSD
Vinyl Chloride	0.698	0.678	0.796	0.729	0.761	0.674	0.723	6.7
1,1-Dichloroethene	0.555	0.527	0.591	0.571	0.514	0.531	0.548	5.3
2-Butanone	0.308	0.294	0.331	0.299	0.279	0.299	0.302	5.6
Carbon Tetrachloride	0.573	0.528	0.583	0.545	0.533	0.538	0.550	4.1
Chloroform	1.120	1.070	1.269	1.164	1.171	1.141	1.156	5.7
Benzene	1.581	1.441	1.568	1.421	1.420	1.474	1.484	4.9
1,2-Dichloroethane	0.499	0.456	0.527	0.464	0.472	0.483	0.483	5.4
Trichloroethene	0.370	0.339	0.384	0.350	0.395	0.348	0.364	6.1
Tetrachloroethene	0.384	0.361	0.420	0.391	0.393	0.375	0.387	5.2
Chlorobenzene	1.183	1.110	1.212	1.139	1.109	1.119	1.145	3.8
1,2-Dichloroethane-d4	0.698	0.613	0.588	0.767		0.575	0.648	12.6
Dibromofluoromethane	0.375	0.317	0.294	0.357		0.293	0.327	11.5
Toluene-d8	1.444	1.199	1.017	1.212		1.080	1.190	13.8
4-Bromofluorobenzene	0.503	0.419	0.323	0.370		0.346	0.392	18.2

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG No.: Q1514

Instrument ID: MSVOA_N Calibration Date/Time: 03/11/2025 13:22

Lab File ID: VN085928.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.723	0.746		3.18	20
1,1-Dichloroethene	0.548	0.594		8.39	20
2-Butanone	0.302	0.338		11.92	20
Carbon Tetrachloride	0.550	0.625		13.64	20
Chloroform	1.156	1.221		5.62	20
Benzene	1.484	1.669		12.47	20
1,2-Dichloroethane	0.483	0.541		12.01	20
Trichloroethene	0.364	0.369		1.37	20
Tetrachloroethene	0.387	0.405		4.65	20
Chlorobenzene	1.145	1.212	0.3	5.85	20
1,2-Dichloroethane-d4	0.648	0.719		10.96	20
Dibromofluoromethane	0.327	0.367		12.23	20
Toluene-d8	1.190	1.369		15.04	20
4-Bromofluorobenzene	0.392	0.506		29.08	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\VN031125\
Data File : VN085947.D
Acq On : 11 Mar 2025 21:29
Operator : JC\MD
Sample : Q1514-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB01

Quant Time: Mar 12 01:31:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

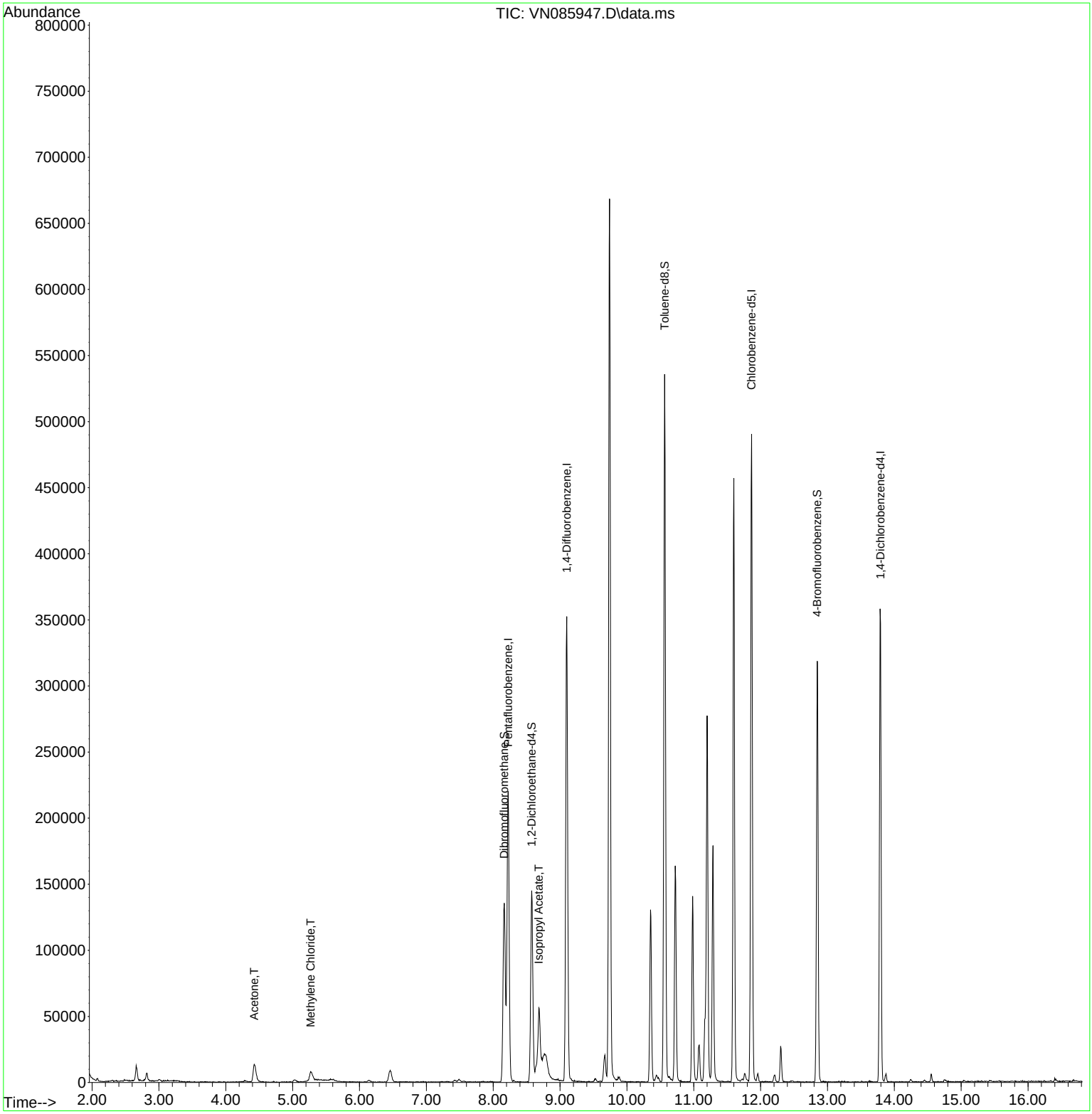
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	154053	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	299260	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	282311	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	99543	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118390	59.277	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.560%			
35) Dibromofluoromethane	8.165	113	99800	50.965	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.920%			
50) Toluene-d8	10.565	98	368578	51.733	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.460%			
62) 4-Bromofluorobenzene	12.847	95	111523	47.509	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.020%			
Target Compounds						Qvalue
16) Acetone	4.424	43	25696	40.661	ug/l	95
20) Methylene Chloride	5.271	84	5536	2.724	ug/l #	88
43) Isopropyl Acetate	8.683	43	71882	17.605	ug/l #	78

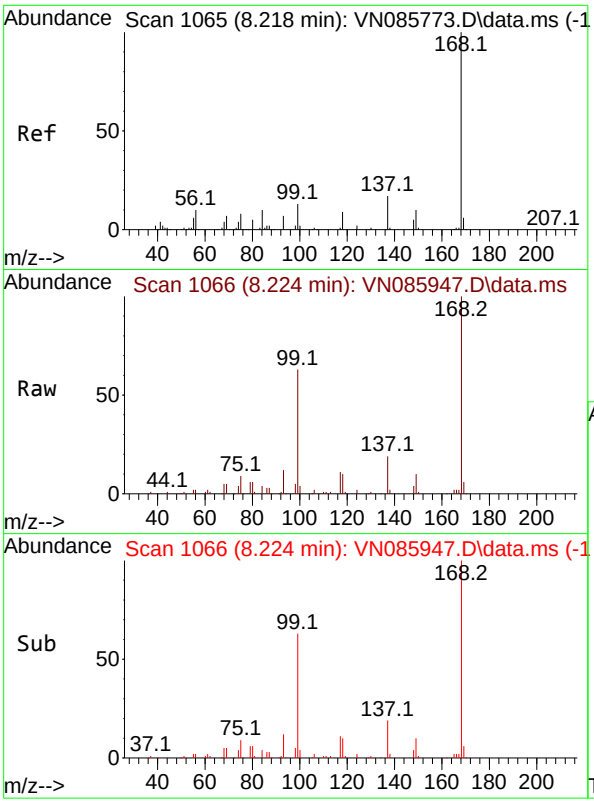
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085947.D
Acq On : 11 Mar 2025 21:29
Operator : JC\MD
Sample : Q1514-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB01

Quant Time: Mar 12 01:31:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



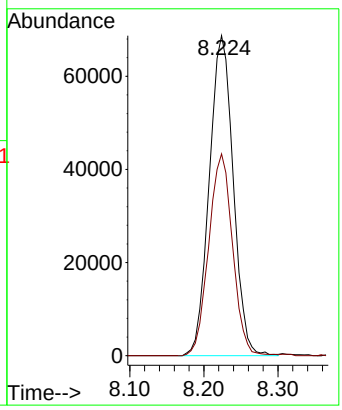


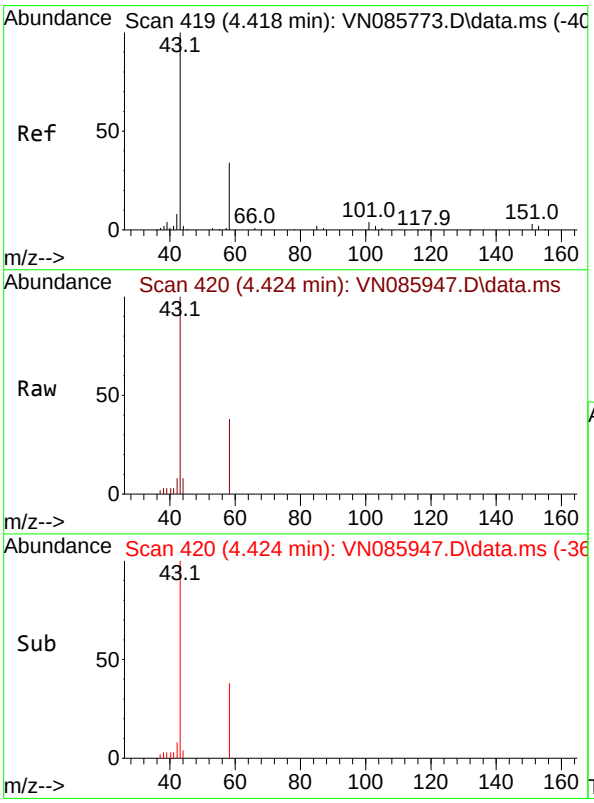
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085947.D
Acq: 11 Mar 2025 21:29

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB01

Tgt Ion:168 Resp: 154053

Ion	Ratio	Lower	Upper
168	100		
99	63.0	47.9	71.9

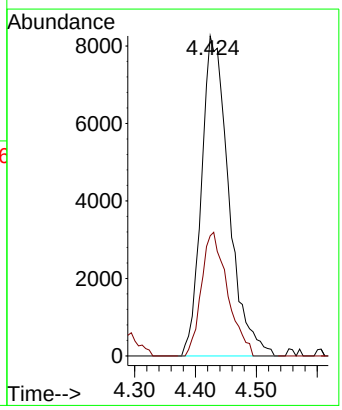


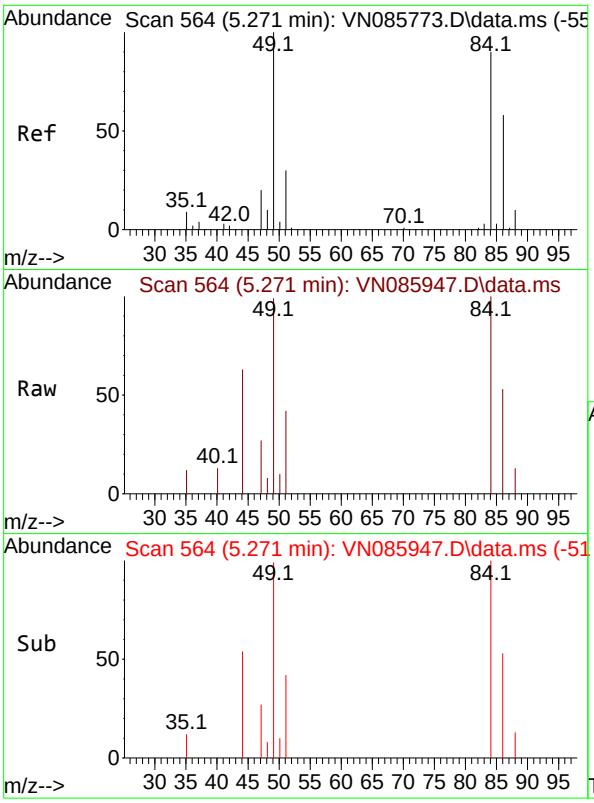


#16
Acetone
Concen: 40.661 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085947.D
Acq: 11 Mar 2025 21:29

Tgt Ion: 43 Resp: 25696

Ion	Ratio	Lower	Upper
43	100		
58	37.5	27.5	41.3



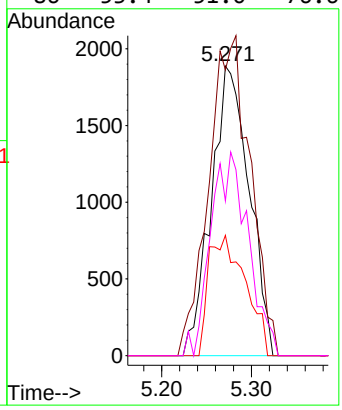


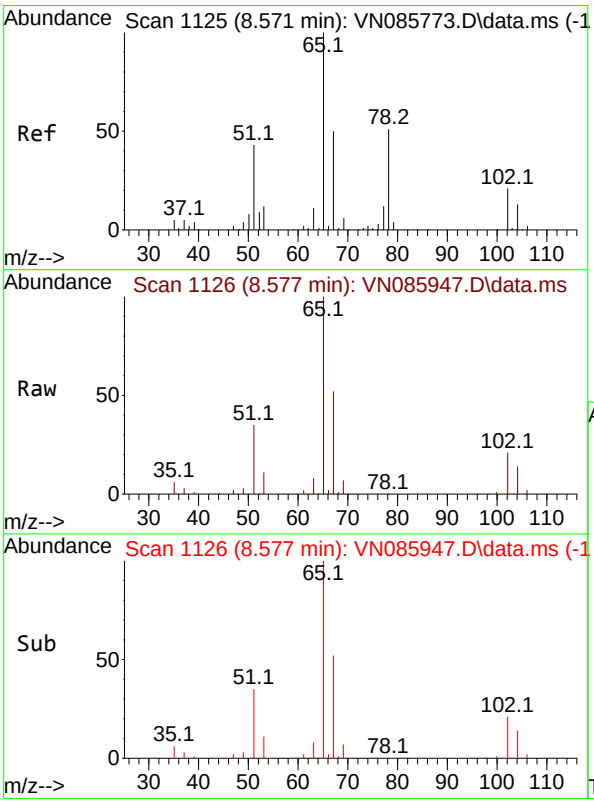
#20
Methylene Chloride
Concen: 2.724 ug/l
RT: 5.271 min Scan# 5
Delta R.T. 0.000 min
Lab File: VN085947.D
Acq: 11 Mar 2025 21:29

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB01

Tgt Ion: 84 Resp: 5536

Ion	Ratio	Lower	Upper
84	100		
49	98.7	88.4	132.6
51	41.5	26.6	40.0#
86	53.4	51.0	76.6

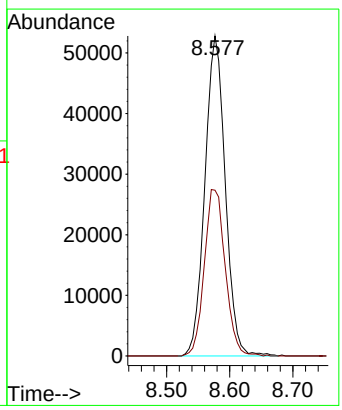


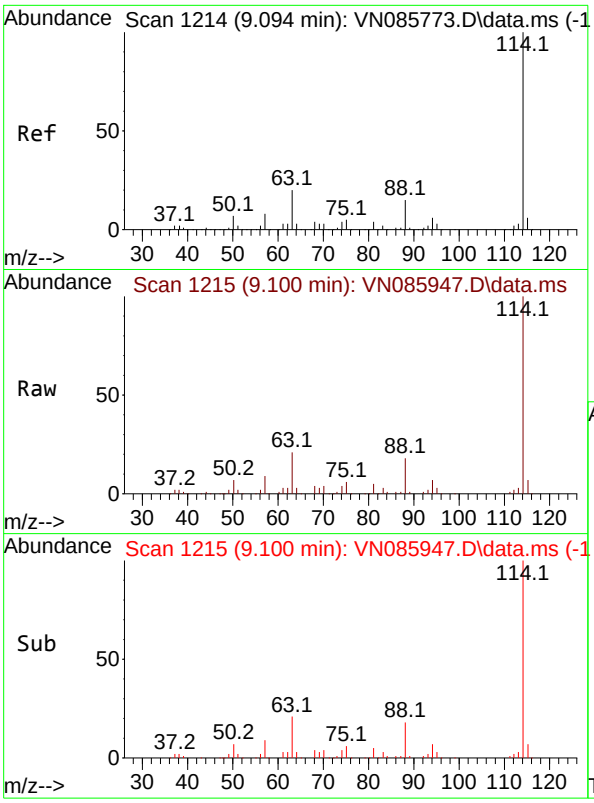


#33
1,2-Dichloroethane-d4
Concen: 59.277 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085947.D
Acq: 11 Mar 2025 21:29

Tgt Ion: 65 Resp: 118390

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.2



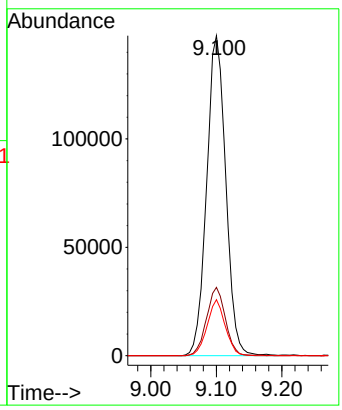


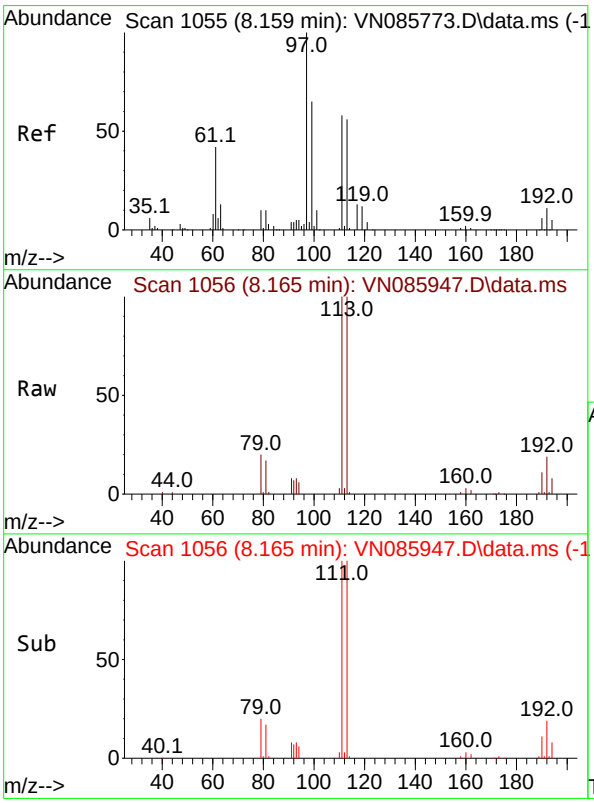
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085947.D
Acq: 11 Mar 2025 21:29

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB01

Tgt Ion:114 Resp: 299260

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	39.2
88	17.5	0.0	30.0

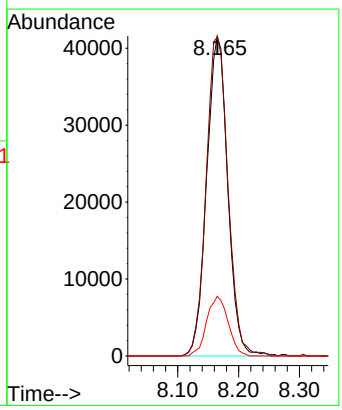


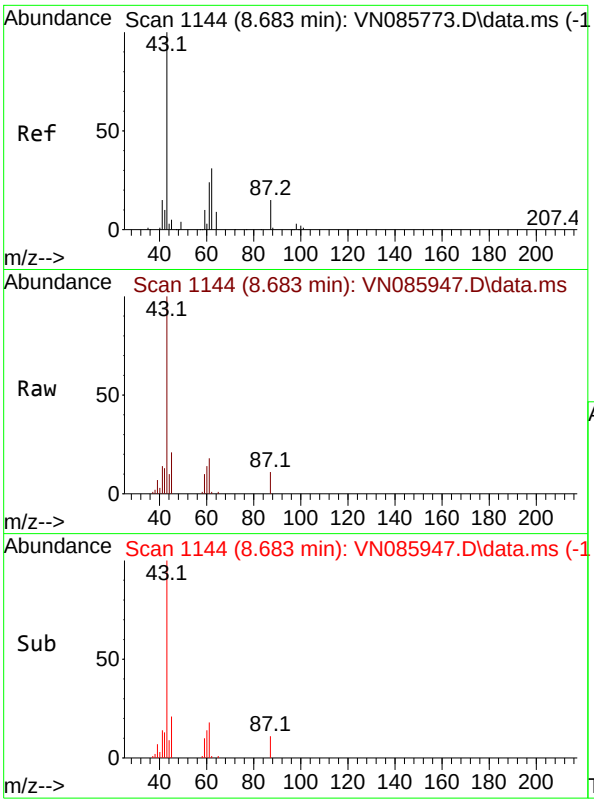


#35
Dibromofluoromethane
Concen: 50.965 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085947.D
Acq: 11 Mar 2025 21:29

Tgt Ion:113 Resp: 99800

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.4
192	19.0	14.7	22.1



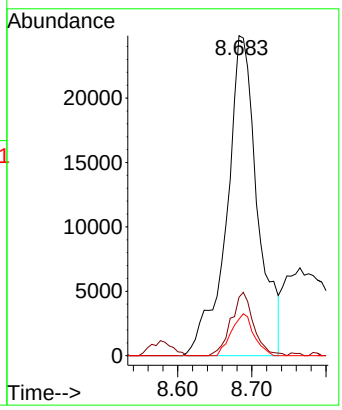


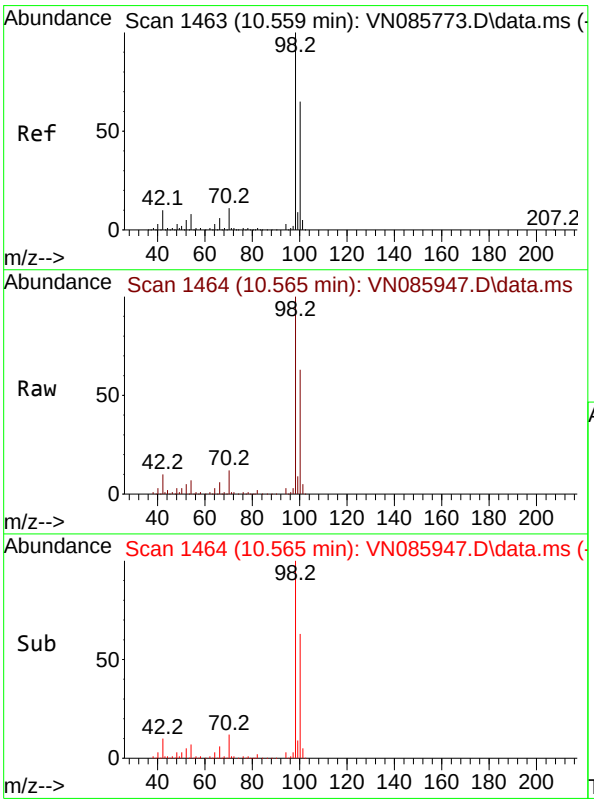
#43
Isopropyl Acetate
Concen: 17.605 ug/l
RT: 8.683 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085947.D
Acq: 11 Mar 2025 21:29

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB01

Tgt Ion: 43 Resp: 71882

Ion	Ratio	Lower	Upper
43	100		
61	14.5	22.6	34.0#
87	9.5	11.8	17.8#

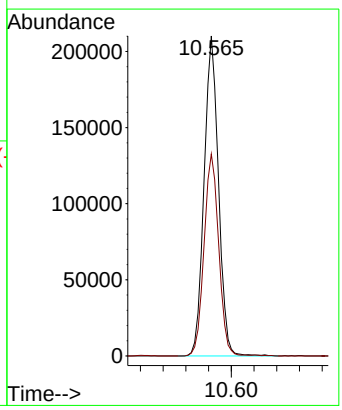


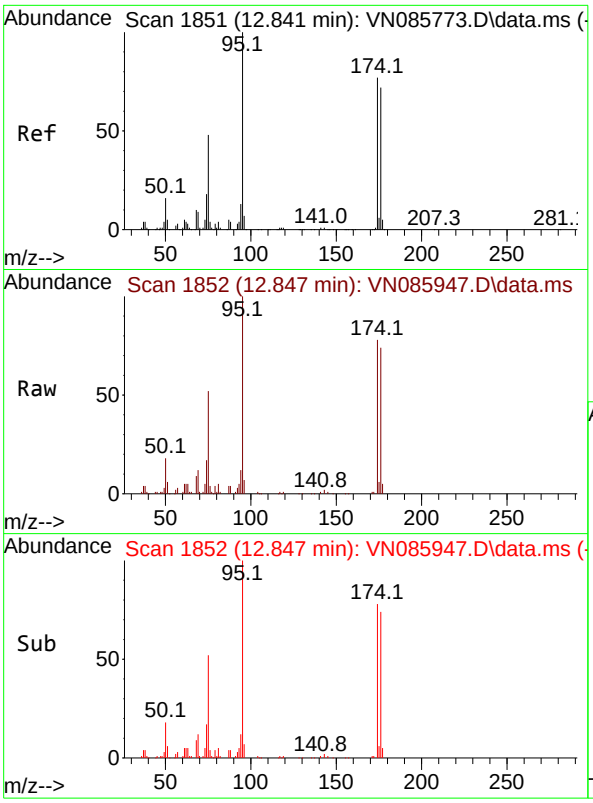


#50
Toluene-d8
Concen: 51.733 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085947.D
Acq: 11 Mar 2025 21:29

Tgt Ion: 98 Resp: 368578

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.1	78.1



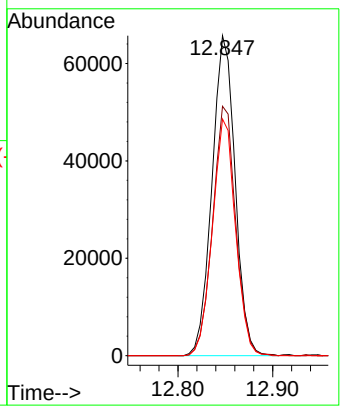


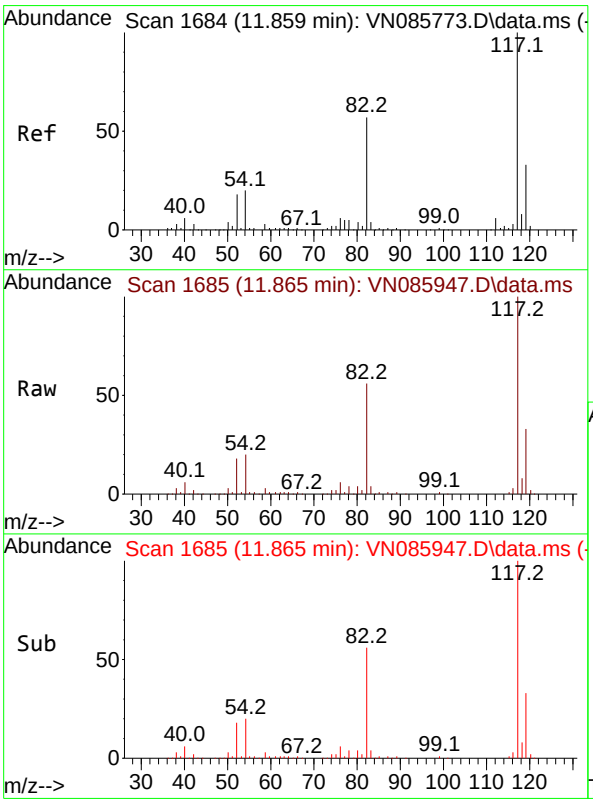
#62
4-Bromofluorobenzene
Concen: 47.509 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085947.D
Acq: 11 Mar 2025 21:29

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB01

Tgt Ion: 95 Resp: 111523

Ion	Ratio	Lower	Upper
95	100		
174	78.0	0.0	152.4
176	73.9	0.0	146.6

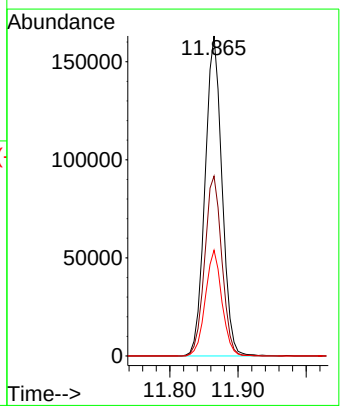


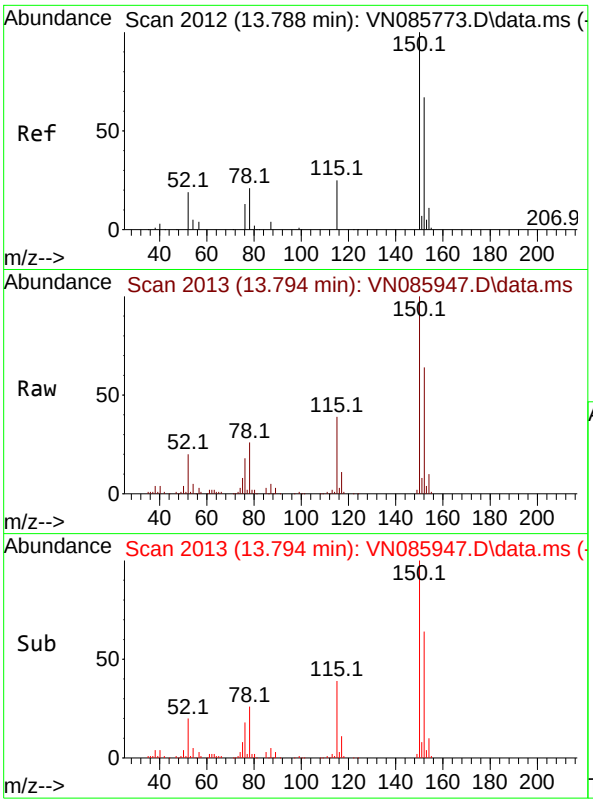


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085947.D
Acq: 11 Mar 2025 21:29

Tgt Ion:117 Resp: 282311

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.7	68.5
119	33.1	26.2	39.2



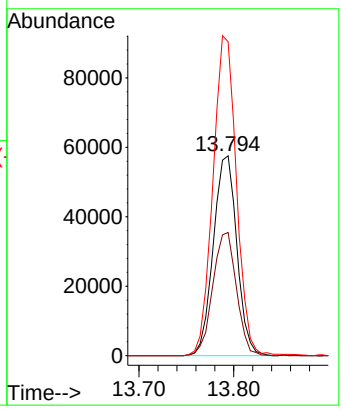


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN085947.D
Acq: 11 Mar 2025 21:29

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB01

Tgt Ion:152 Resp: 99543

Ion	Ratio	Lower	Upper
152	100		
115	62.0	30.4	91.3
150	159.8	0.0	345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085948.D
Acq On : 11 Mar 2025 21:53
Operator : JC\MD
Sample : Q1514-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB02

Quant Time: Mar 12 01:31:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

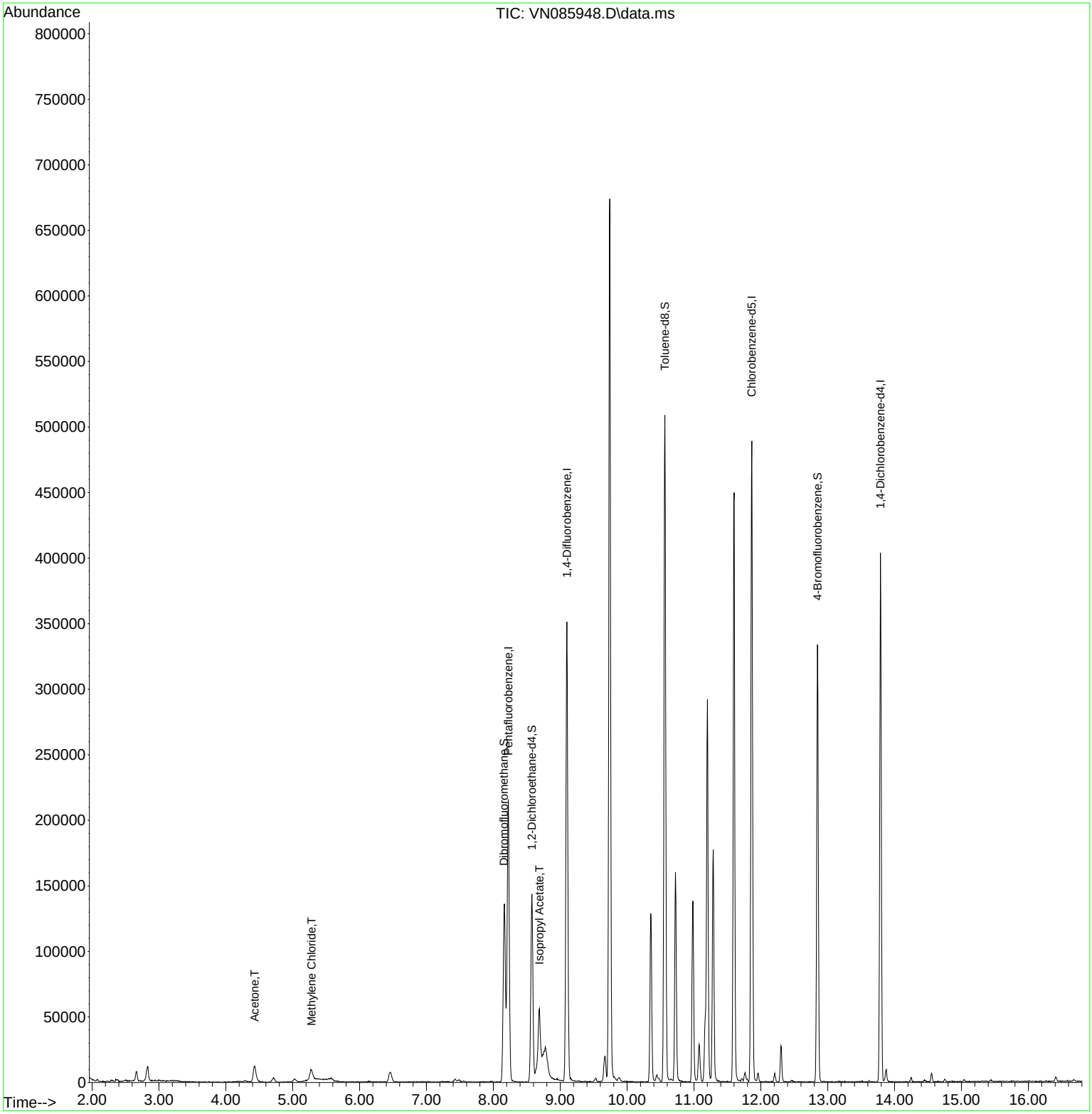
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	150437	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	296435	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	287045	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	110049	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116697	59.833	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.660%			
35) Dibromofluoromethane	8.159	113	98753	50.911	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.820%			
50) Toluene-d8	10.565	98	358054	50.735	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.480%			
62) 4-Bromofluorobenzene	12.847	95	114862	49.398	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.800%			
Target Compounds						Qvalue
16) Acetone	4.430	43	23134	37.486	ug/l	99
20) Methylene Chloride	5.283	84	5982	3.014	ug/l #	85
43) Isopropyl Acetate	8.688	43	70964	17.544	ug/l #	79

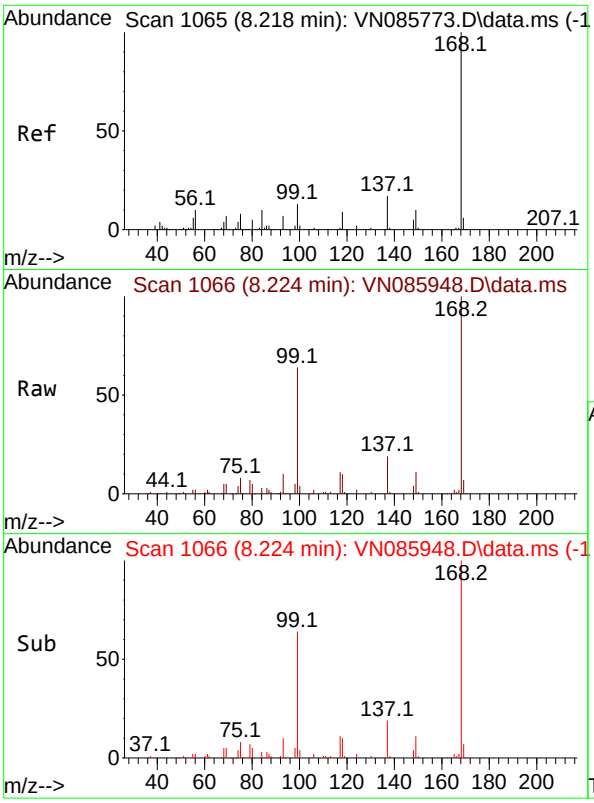
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085948.D
Acq On : 11 Mar 2025 21:53
Operator : JC\MD
Sample : Q1514-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB02

Quant Time: Mar 12 01:31:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



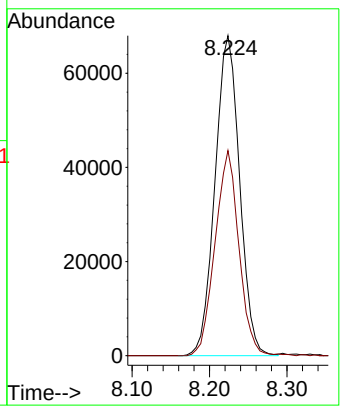


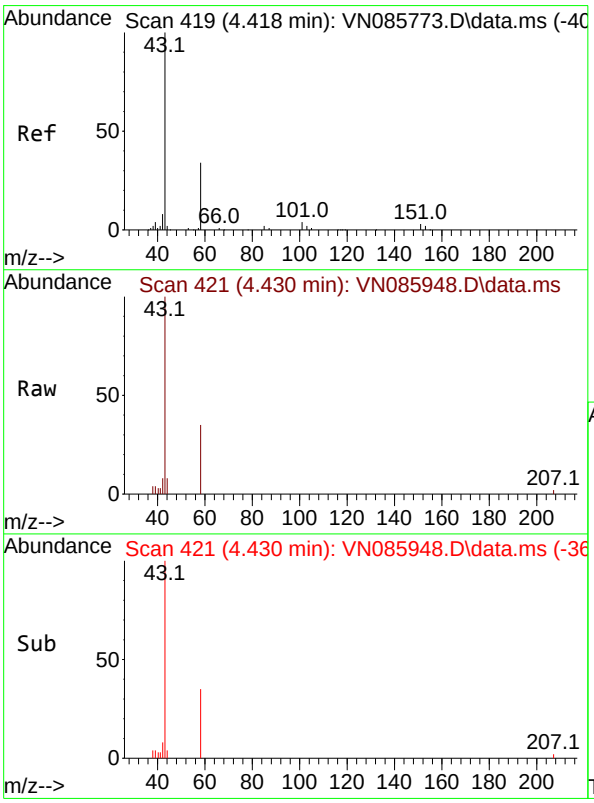
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085948.D
Acq: 11 Mar 2025 21:53

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB02

Tgt Ion:168 Resp: 150437

Ion	Ratio	Lower	Upper
168	100		
99	64.1	47.9	71.9

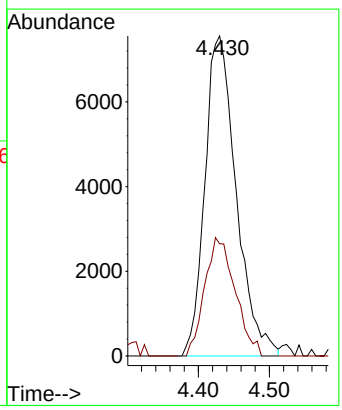


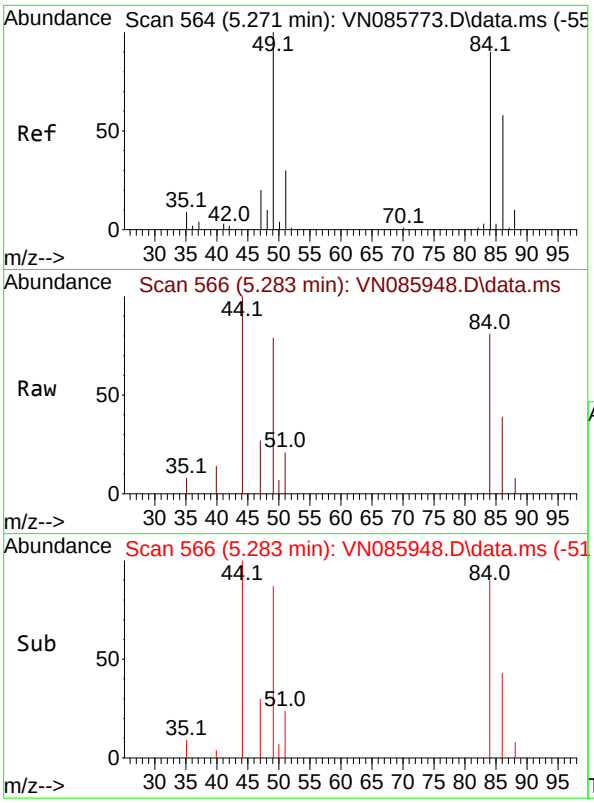


#16
Acetone
Concen: 37.486 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085948.D
Acq: 11 Mar 2025 21:53

Tgt Ion: 43 Resp: 23134

Ion	Ratio	Lower	Upper
43	100		
58	35.1	27.5	41.3



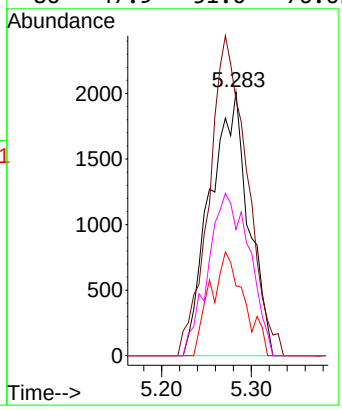


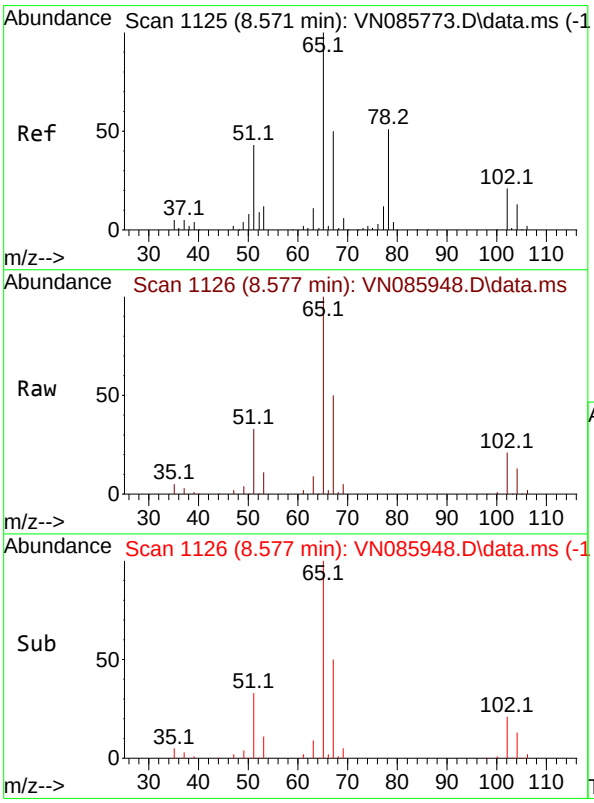
#20
Methylene Chloride
Concen: 3.014 ug/l
RT: 5.283 min Scan# 5
Delta R.T. 0.012 min
Lab File: VN085948.D
Acq: 11 Mar 2025 21:53

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB02

Tgt Ion: 84 Resp: 5982

Ion	Ratio	Lower	Upper
84	100		
49	97.2	88.4	132.6
51	26.4	26.6	40.0#
86	47.9	51.0	76.6#

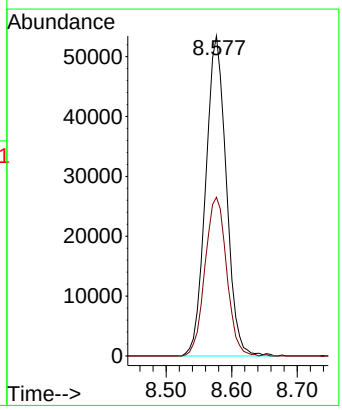


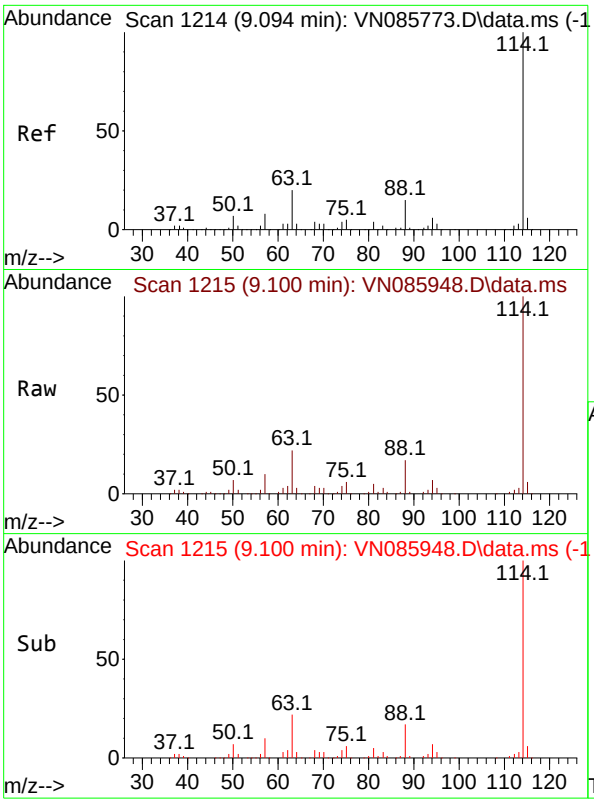


#33
1,2-Dichloroethane-d4
Concen: 59.833 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085948.D
Acq: 11 Mar 2025 21:53

Tgt Ion: 65 Resp: 116697

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	106.2



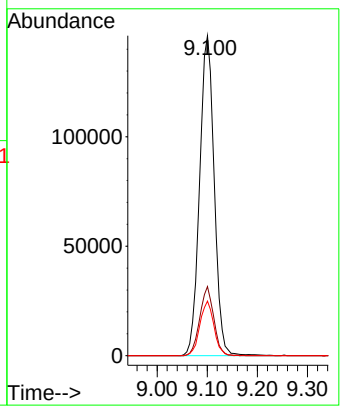


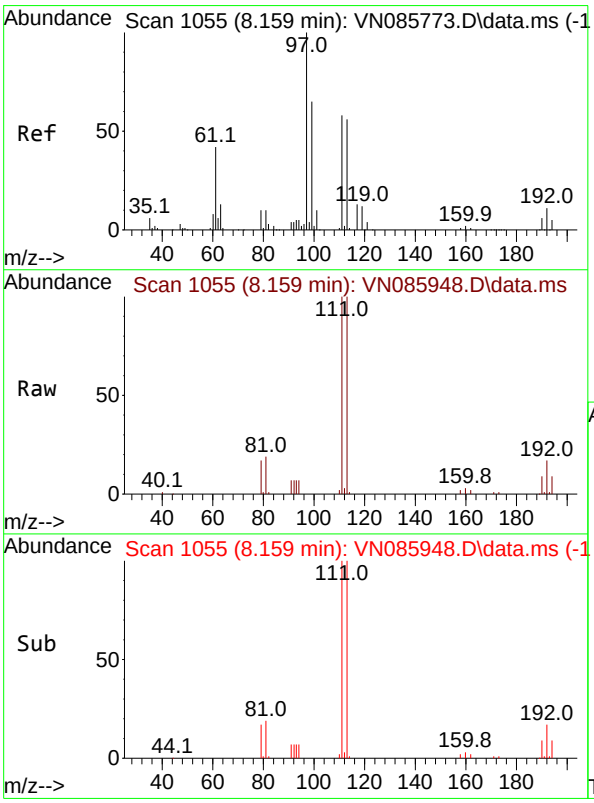
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085948.D
Acq: 11 Mar 2025 21:53

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB02

Tgt Ion:114 Resp: 296435

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	39.2
88	17.0	0.0	30.0

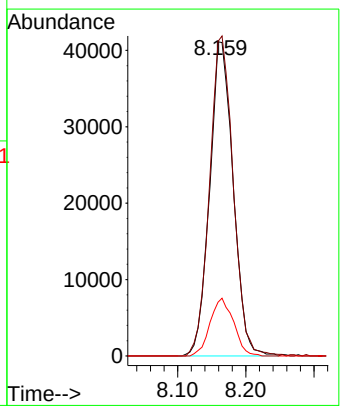


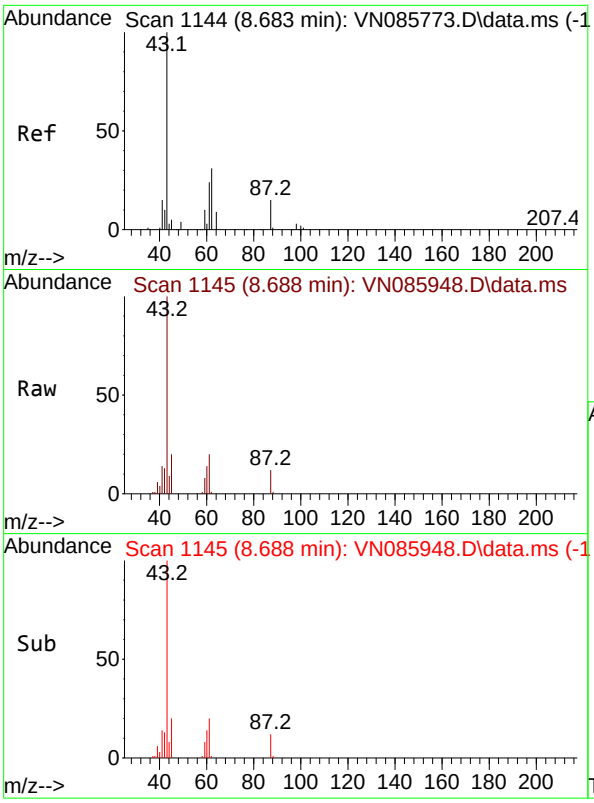


#35
Dibromofluoromethane
Concen: 50.911 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VN085948.D
Acq: 11 Mar 2025 21:53

Tgt Ion:113 Resp: 98753

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.2	123.4
192	18.4	14.7	22.1



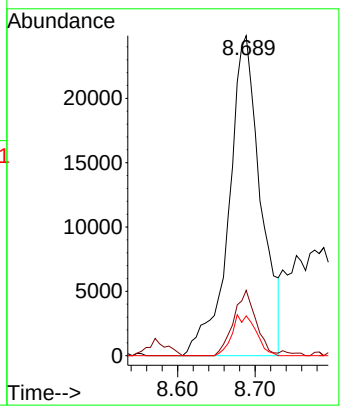


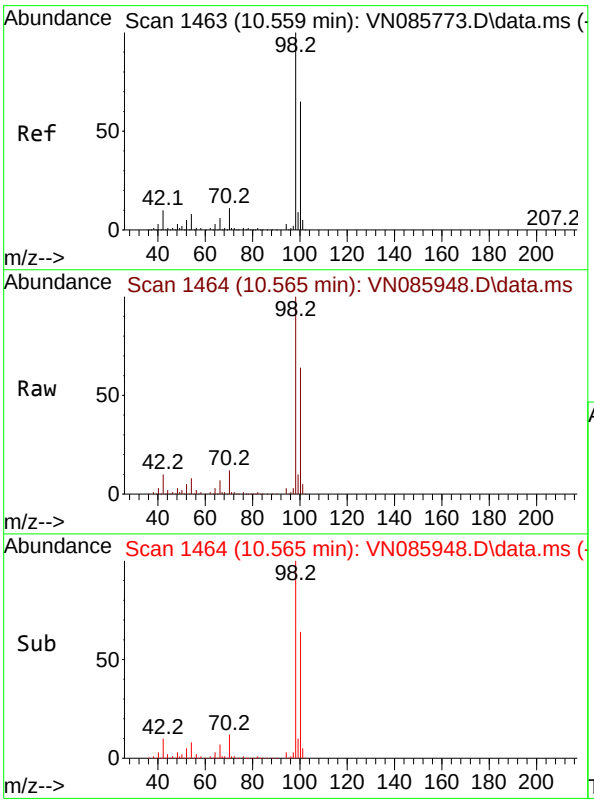
#43
Isopropyl Acetate
Concen: 17.544 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN085948.D
Acq: 11 Mar 2025 21:53

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB02

Tgt Ion: 43 Resp: 70964

Ion	Ratio	Lower	Upper
43	100		
61	14.5	22.6	34.0#
87	9.6	11.8	17.8#

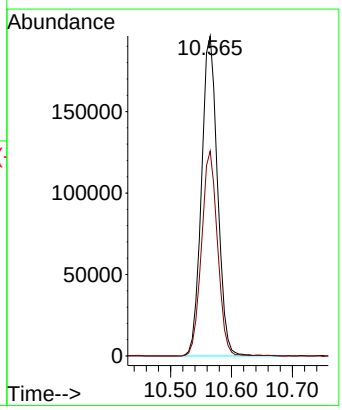


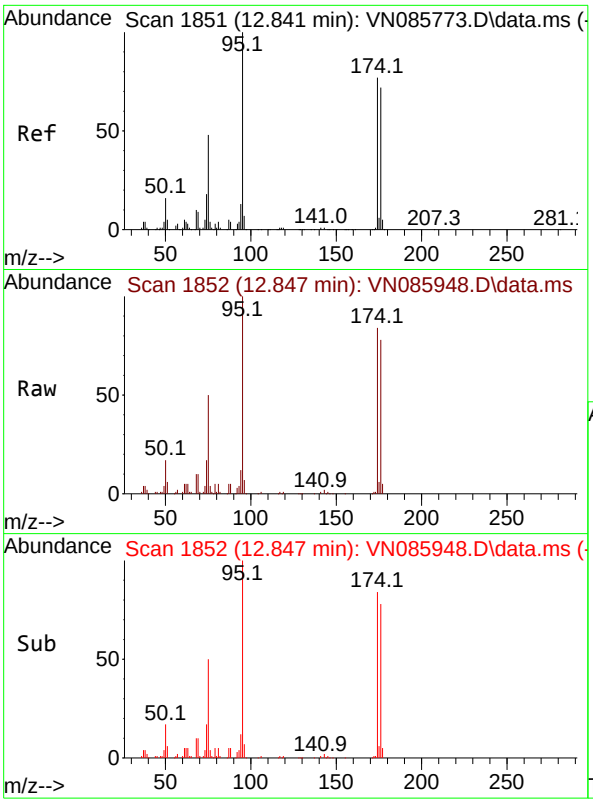


#50
Toluene-d8
Concen: 50.735 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085948.D
Acq: 11 Mar 2025 21:53

Tgt Ion: 98 Resp: 358054

Ion	Ratio	Lower	Upper
98	100		
100	63.9	52.1	78.1



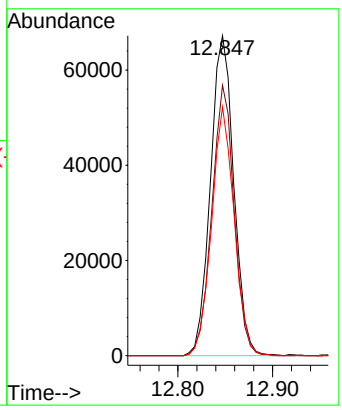


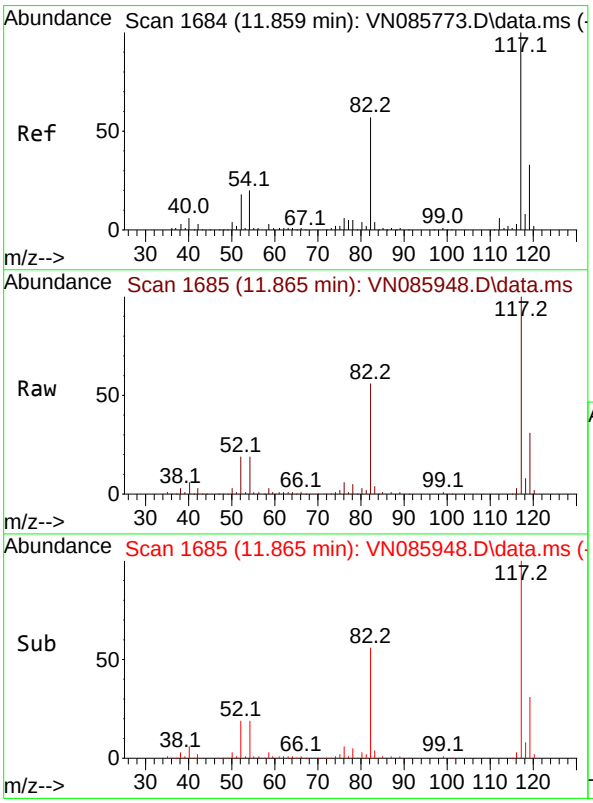
#62
4-Bromofluorobenzene
Concen: 49.398 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085948.D
Acq: 11 Mar 2025 21:53

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB02

Tgt Ion: 95 Resp: 114862

Ion	Ratio	Lower	Upper
95	100		
174	80.8	0.0	152.4
176	75.3	0.0	146.6

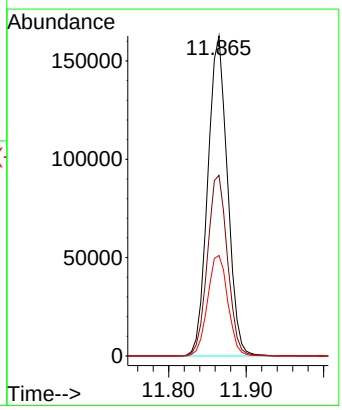


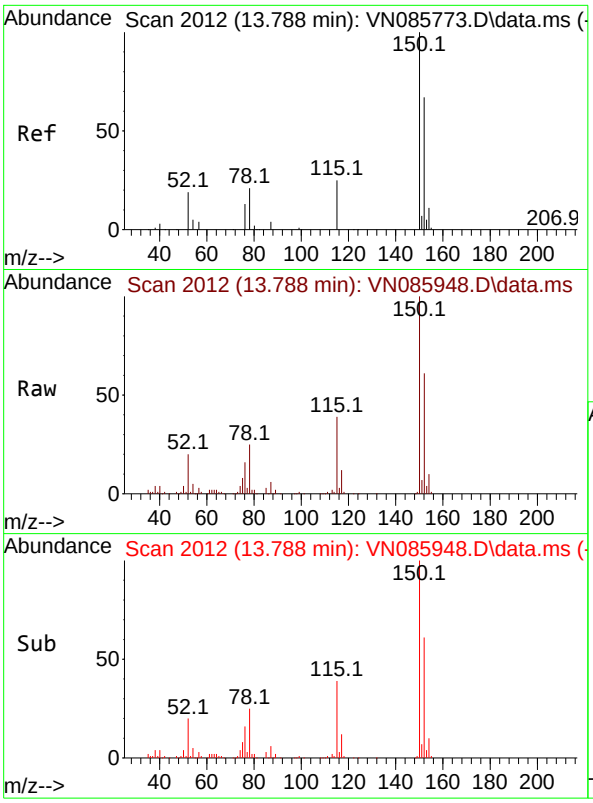


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085948.D
Acq: 11 Mar 2025 21:53

Tgt Ion:117 Resp: 287045

Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.7	68.5
119	31.4	26.2	39.2



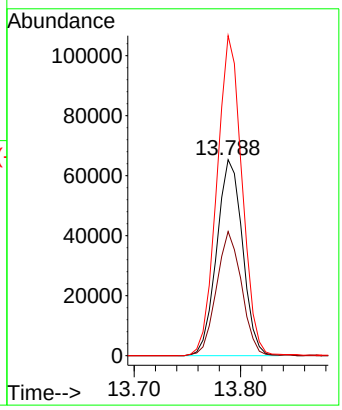


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085948.D
Acq: 11 Mar 2025 21:53

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-SB02

Tgt Ion:152 Resp: 110049

Ion	Ratio	Lower	Upper
152	100		
115	61.6	30.4	91.3
150	159.3	0.0	345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085949.D
Acq On : 11 Mar 2025 22:17
Operator : JC\MD
Sample : Q1514-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-SB01

Quant Time: Mar 12 01:32:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

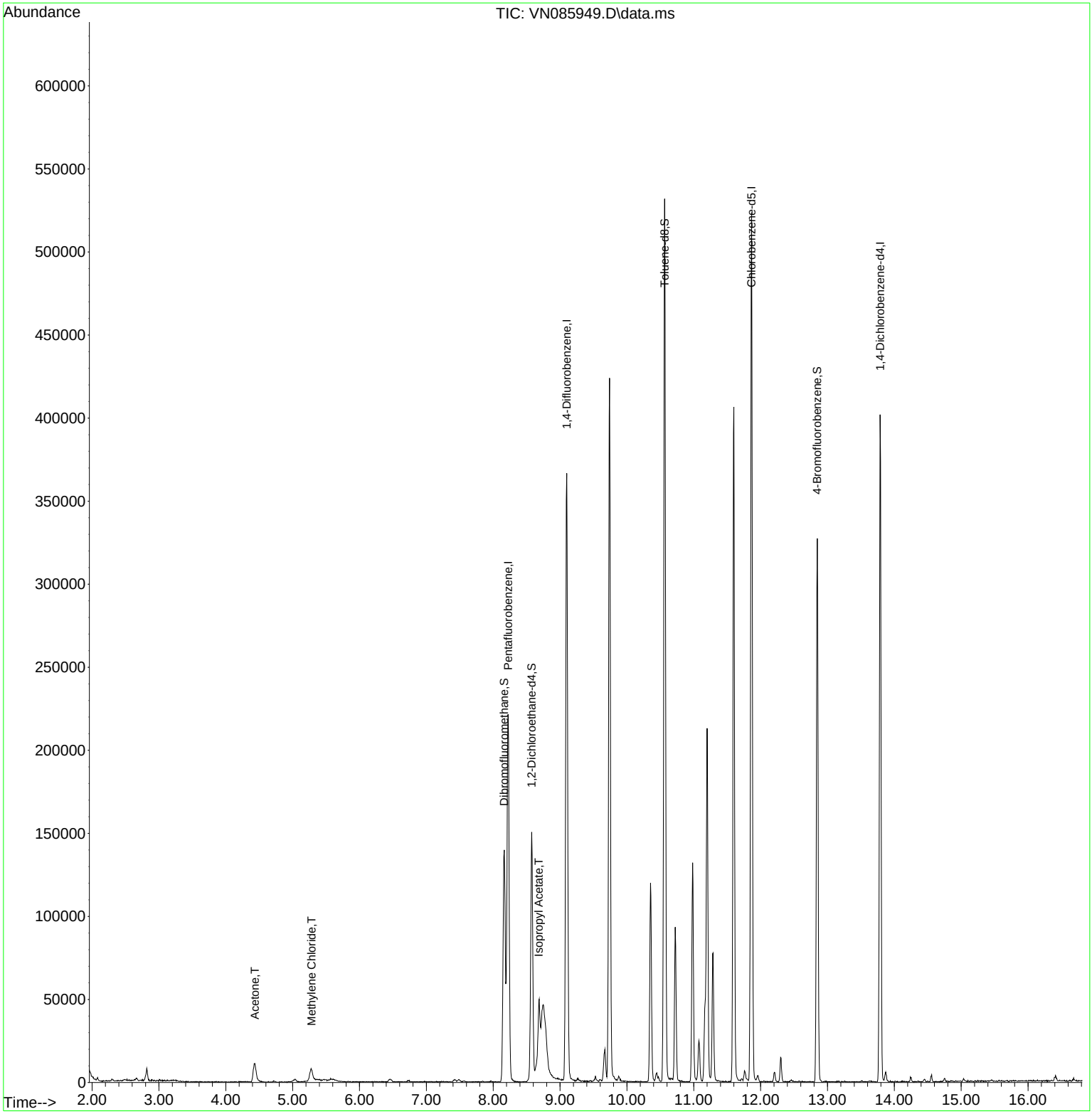
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	159259	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	315656	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	300142	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	110799	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120192	58.212	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.420%			
35) Dibromofluoromethane	8.165	113	101409	49.097	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.200%			
50) Toluene-d8	10.565	98	374101	49.781	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.560%			
62) 4-Bromofluorobenzene	12.847	95	117023	47.263	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.520%			
Target Compounds						Qvalue
16) Acetone	4.436	43	22305	34.141	ug/l	97
20) Methylene Chloride	5.283	84	6134	2.920	ug/l	88
43) Isopropyl Acetate	8.683	43	61567	14.192	ug/l #	78

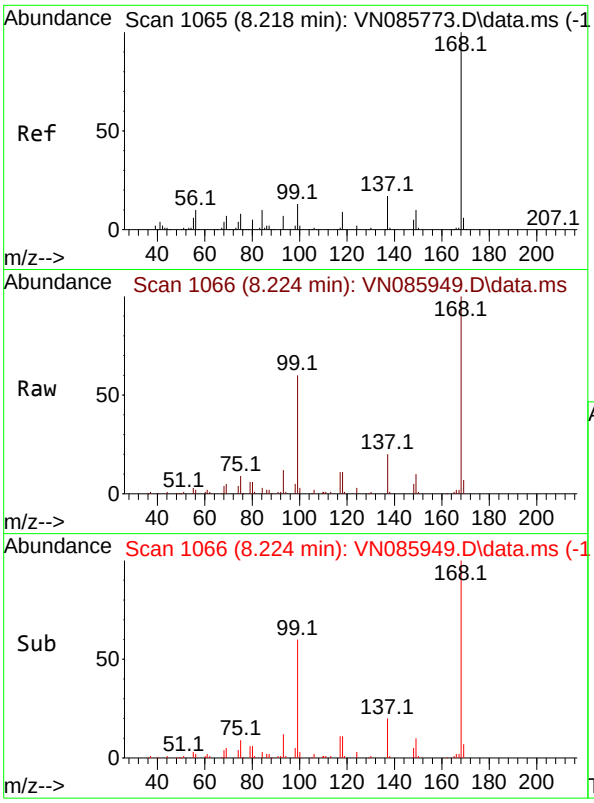
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085949.D
Acq On : 11 Mar 2025 22:17
Operator : JC\MD
Sample : Q1514-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-SB01

Quant Time: Mar 12 01:32:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



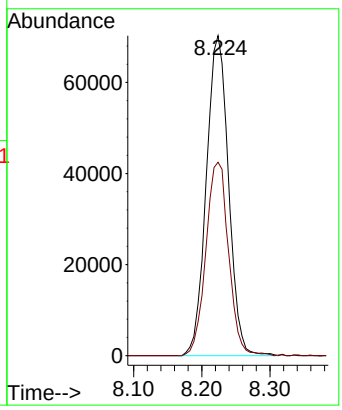


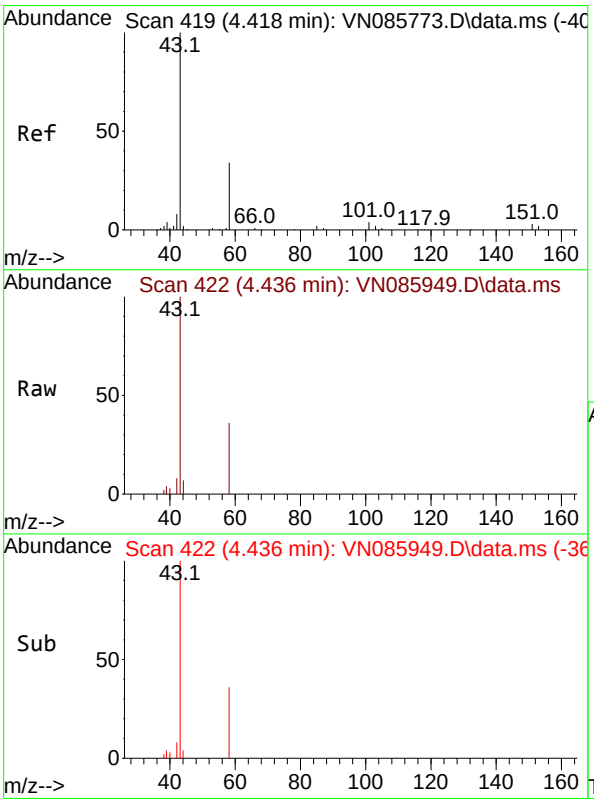
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085949.D
Acq: 11 Mar 2025 22:17

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-SB01

Tgt Ion:168 Resp: 159259

Ion	Ratio	Lower	Upper
168	100		
99	60.5	47.9	71.9

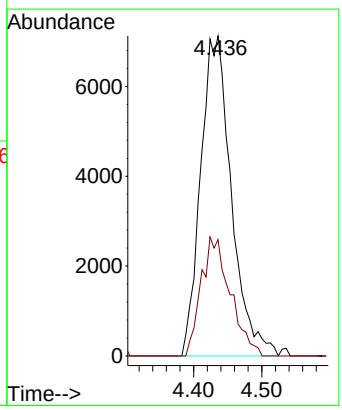


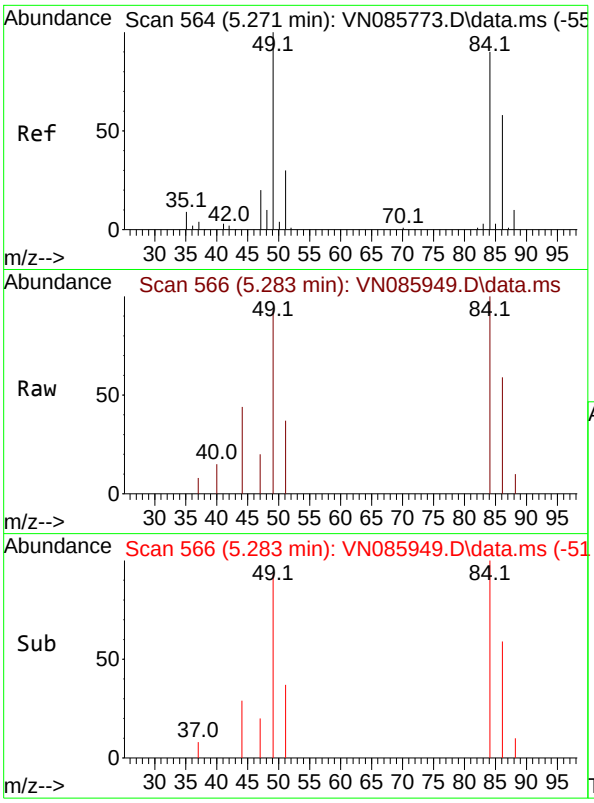


#16
Acetone
Concen: 34.141 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085949.D
Acq: 11 Mar 2025 22:17

Tgt Ion: 43 Resp: 22305

Ion	Ratio	Lower	Upper
43	100		
58	36.3	27.5	41.3



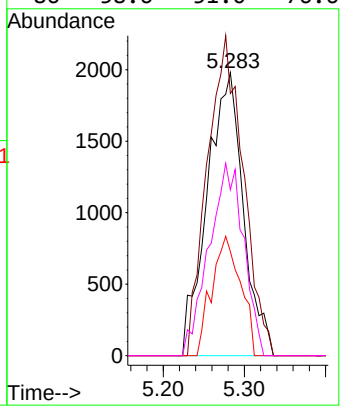


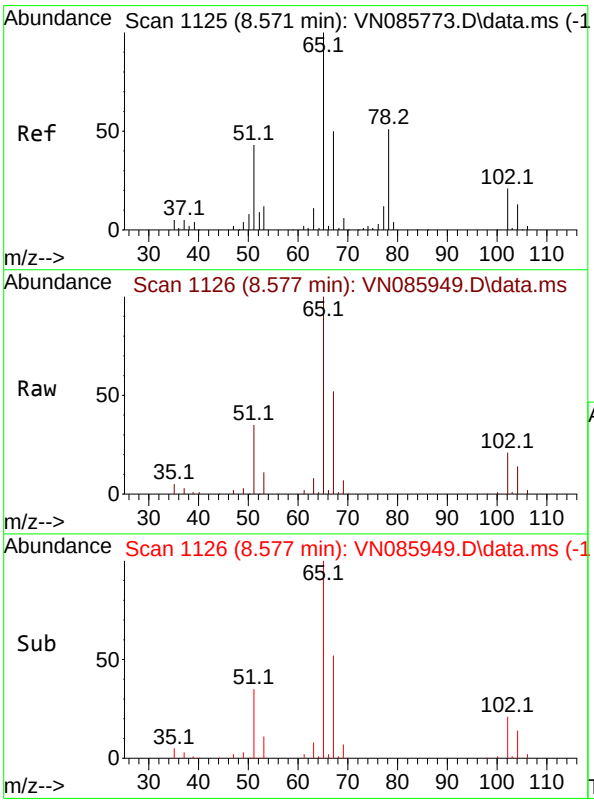
#20
Methylene Chloride
Concen: 2.920 ug/l
RT: 5.283 min Scan# 5
Delta R.T. 0.012 min
Lab File: VN085949.D
Acq: 11 Mar 2025 22:17

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-SB01

Tgt Ion: 84 Resp: 6134

Ion	Ratio	Lower	Upper
84	100		
49	92.6	88.4	132.6
51	36.8	26.6	40.0
86	58.6	51.0	76.6

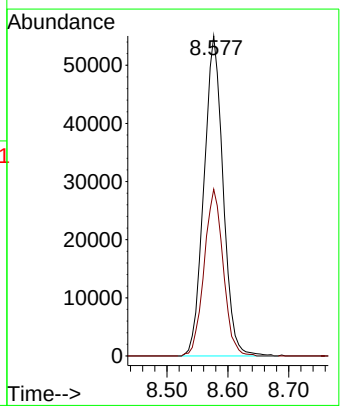


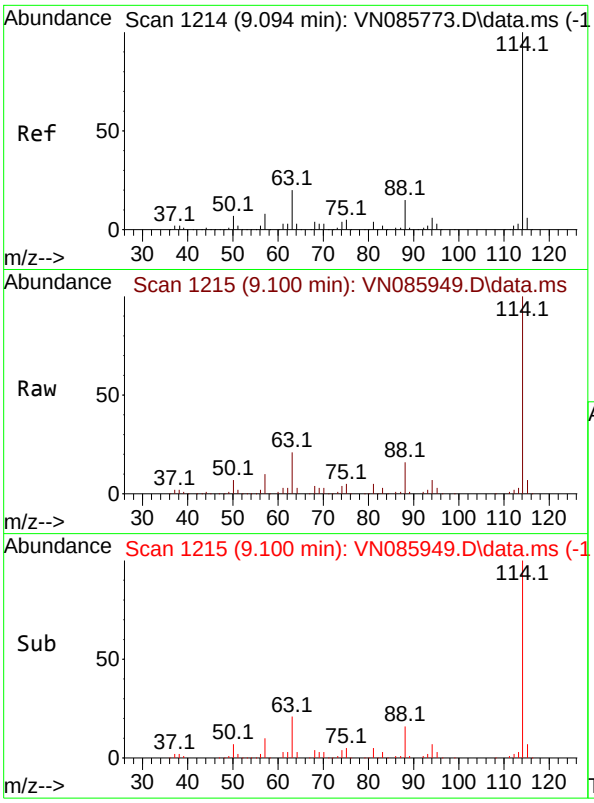


#33
1,2-Dichloroethane-d4
Concen: 58.212 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085949.D
Acq: 11 Mar 2025 22:17

Tgt Ion: 65 Resp: 120192

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	106.2



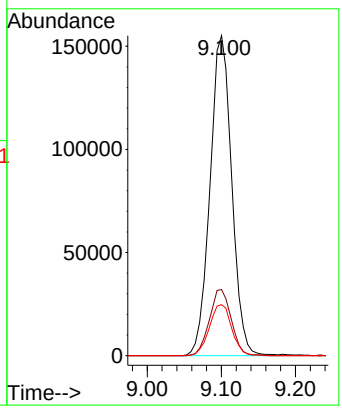


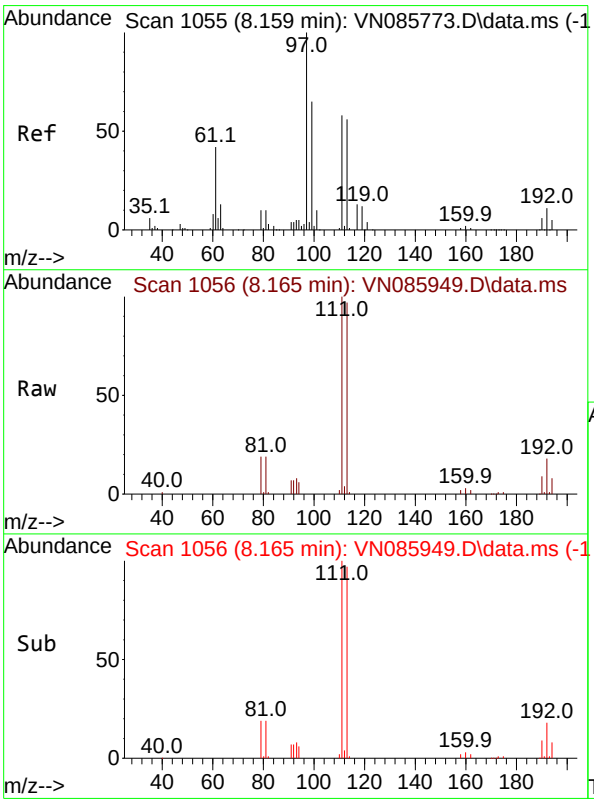
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085949.D
Acq: 11 Mar 2025 22:17

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-SB01

Tgt Ion:114 Resp: 315656

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	39.2
88	16.0	0.0	30.0

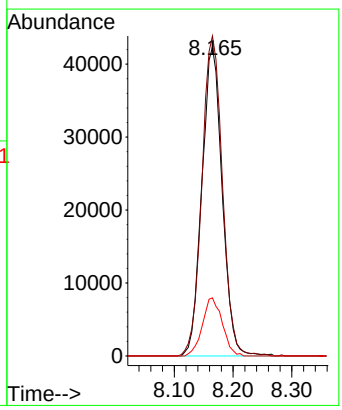


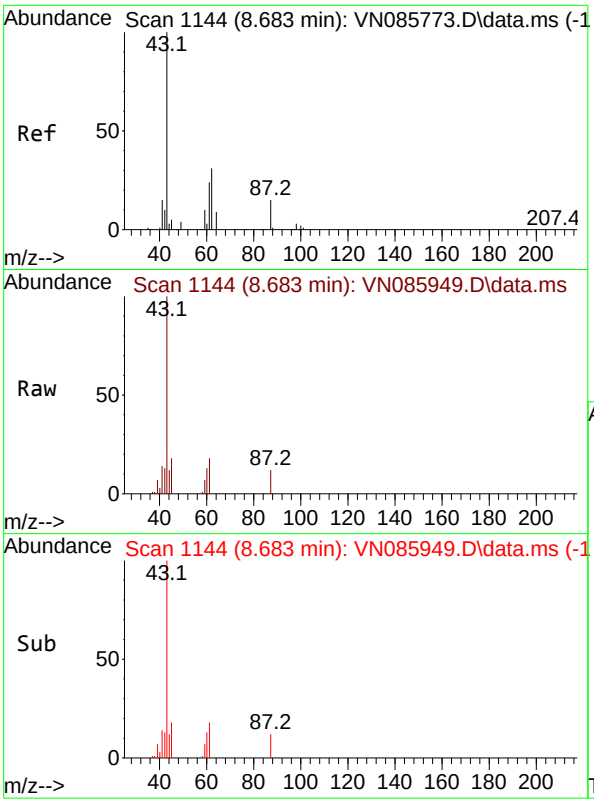


#35
Dibromofluoromethane
Concen: 49.097 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085949.D
Acq: 11 Mar 2025 22:17

Tgt Ion:113 Resp: 101409

Ion	Ratio	Lower	Upper
113	100		
111	104.5	82.2	123.4
192	18.4	14.7	22.1



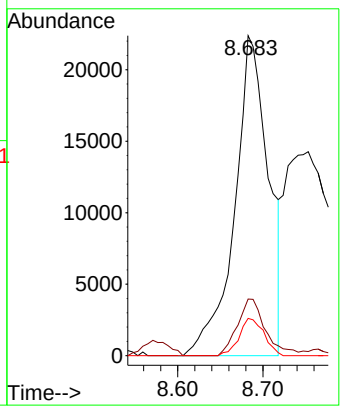


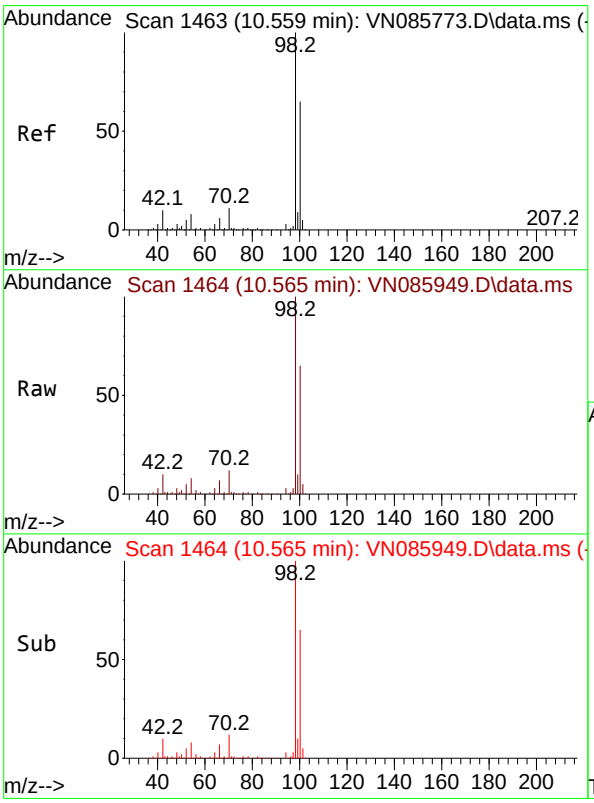
#43
Isopropyl Acetate
Concen: 14.192 ug/l
RT: 8.683 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085949.D
Acq: 11 Mar 2025 22:17

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-SB01

Tgt Ion: 43 Resp: 61567

Ion	Ratio	Lower	Upper
43	100		
61	14.7	22.6	34.0#
87	8.6	11.8	17.8#

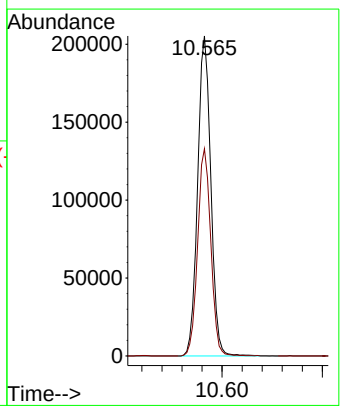




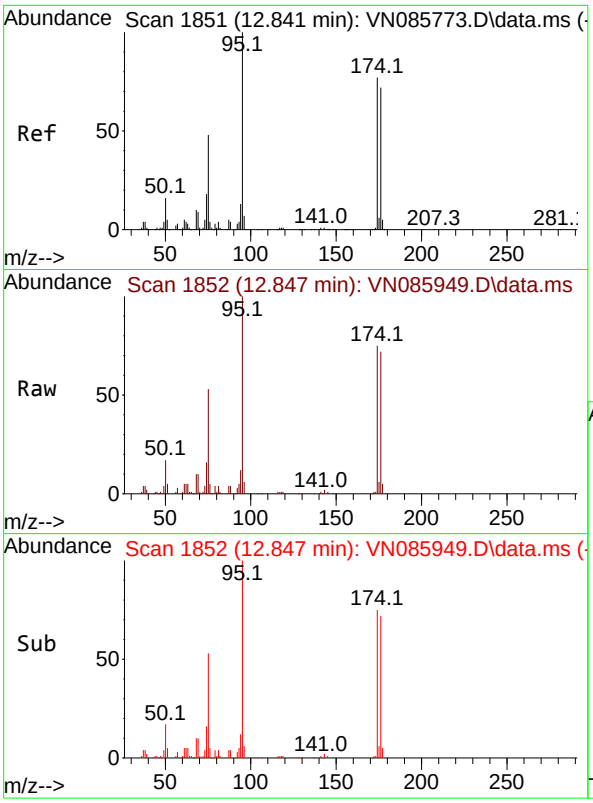
#50
Toluene-d8
Concen: 49.781 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085949.D
Acq: 11 Mar 2025 22:17

Tgt Ion: 98 Resp: 374101

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.1	78.1



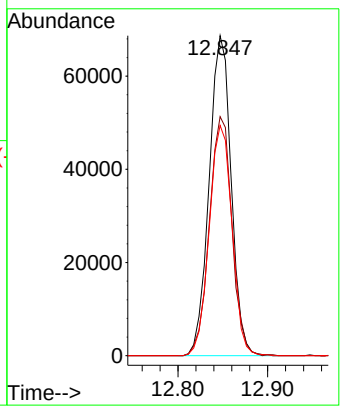
Instrument :
MSVOA_N
ClientSampleId :
ENV-103-SB01

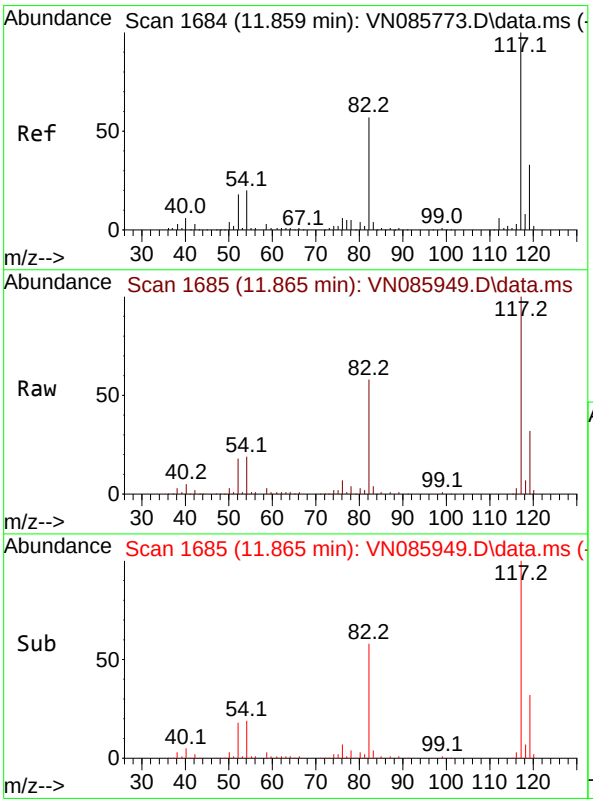


#62
4-Bromofluorobenzene
Concen: 47.263 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085949.D
Acq: 11 Mar 2025 22:17

Tgt Ion: 95 Resp: 117023

Ion	Ratio	Lower	Upper
95	100		
174	76.6	0.0	152.4
176	74.6	0.0	146.6

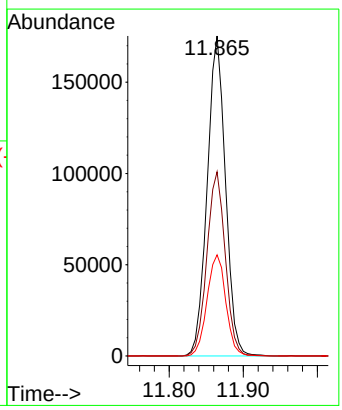


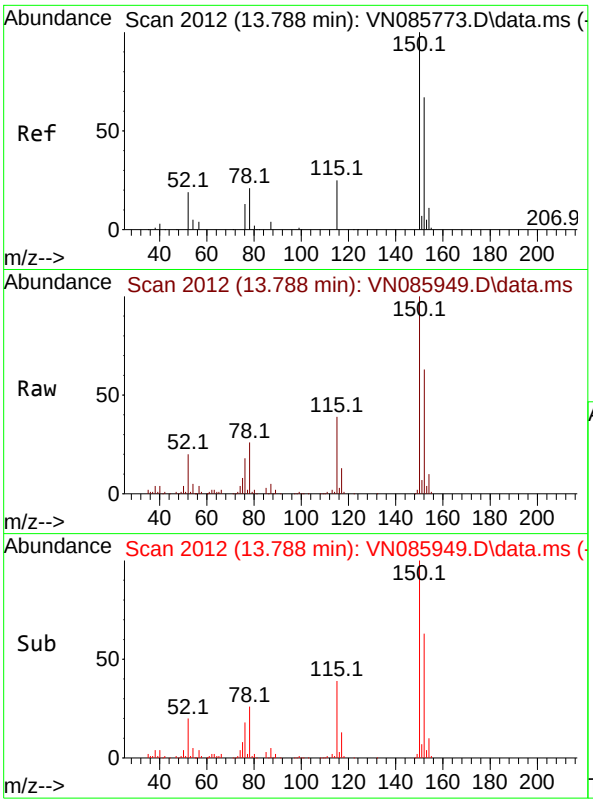


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085949.D
Acq: 11 Mar 2025 22:17

Tgt Ion:117 Resp: 300142

Ion	Ratio	Lower	Upper
117	100		
82	57.5	45.7	68.5
119	31.6	26.2	39.2



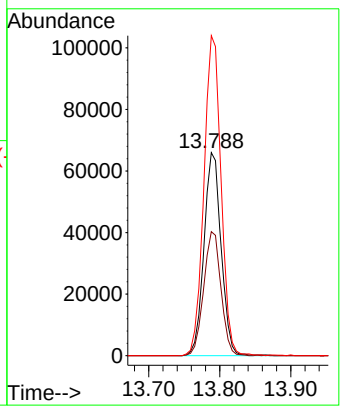


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085949.D
Acq: 11 Mar 2025 22:17

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-SB01

Tgt Ion:152 Resp: 110799

Ion	Ratio	Lower	Upper
152	100		
115	61.5	30.4	91.3
150	157.4	0.0	345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085930.D
Acq On : 11 Mar 2025 14:21
Operator : JC\MD
Sample : VN0311WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBL01

Quant Time: Mar 12 01:19:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	166099	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	319285	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	277562	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	106492	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120828	56.110	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.220%			
35) Dibromofluoromethane	8.165	113	102406	49.016	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.040%			
50) Toluene-d8	10.565	98	338496	44.531	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 89.060%			
62) 4-Bromofluorobenzene	12.847	95	105788	42.240	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 84.480%			

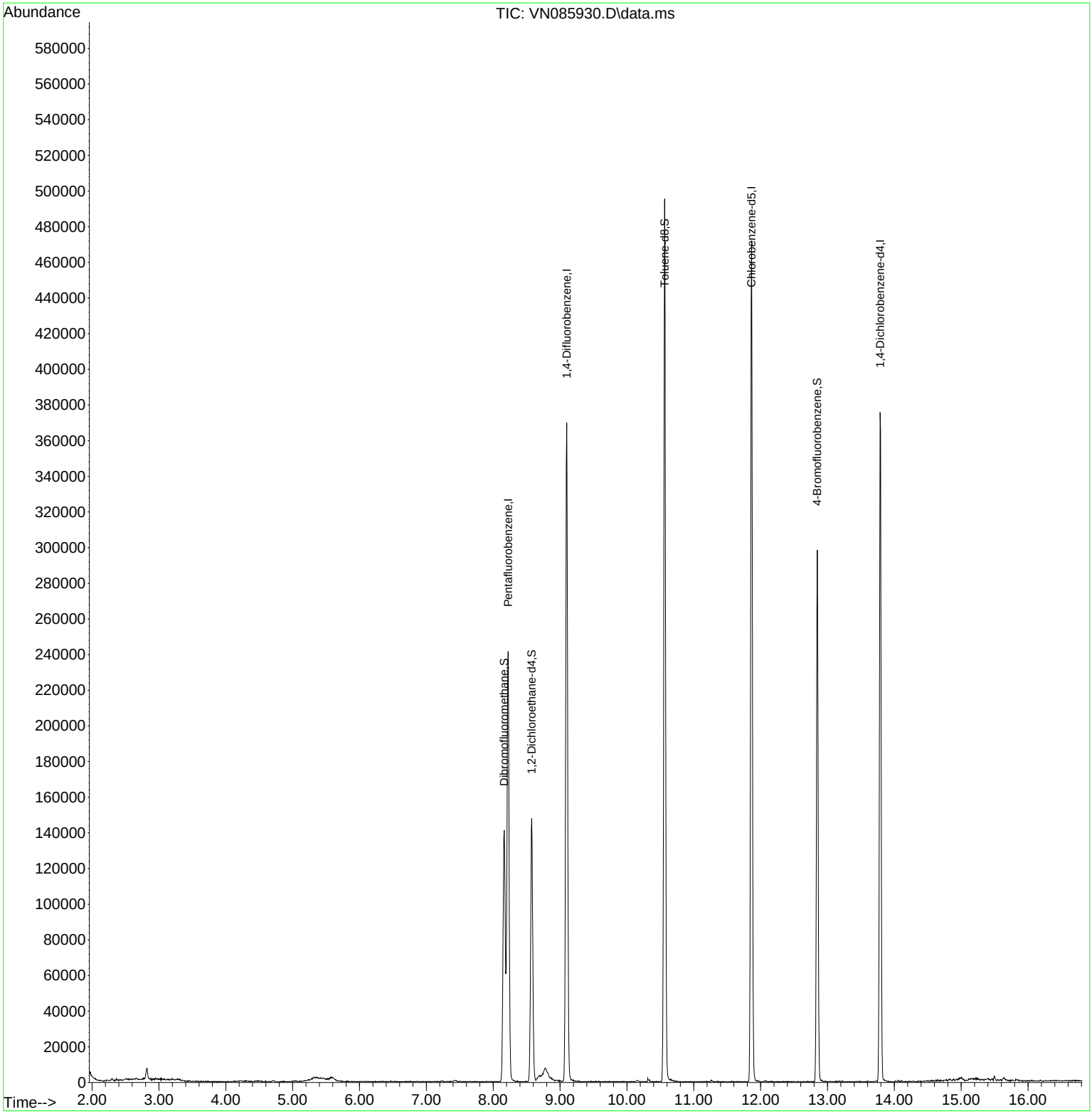
Target Compounds Qvalue

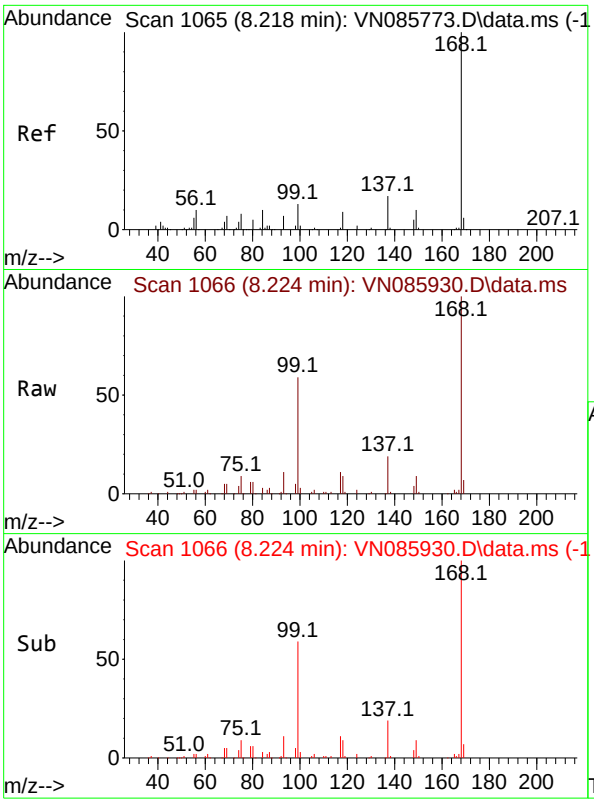
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085930.D
Acq On : 11 Mar 2025 14:21
Operator : JC\MD
Sample : VN0311WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBL01

Quant Time: Mar 12 01:19:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



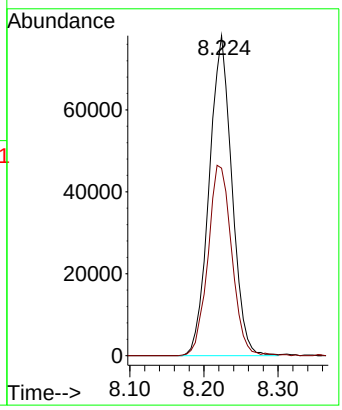


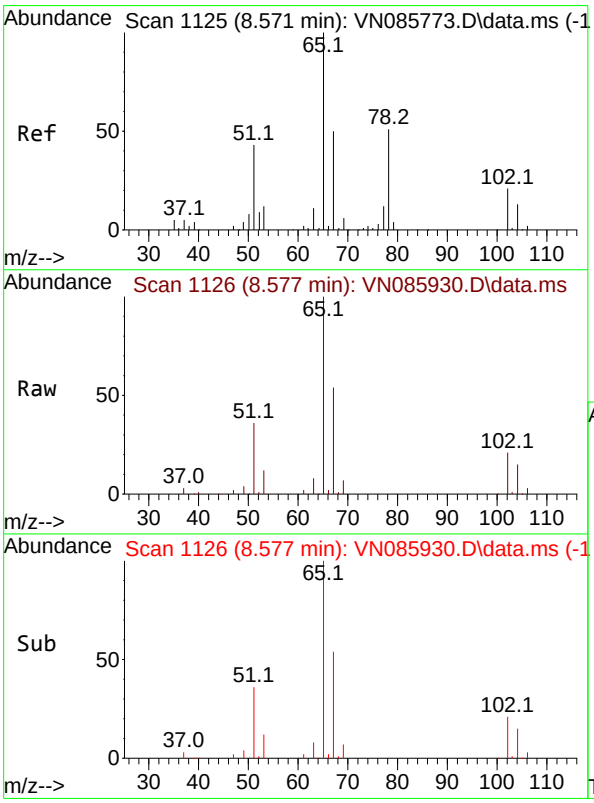
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBL01

Tgt Ion:168 Resp: 166099

Ion	Ratio	Lower	Upper
168	100		
99	58.6	47.9	71.9

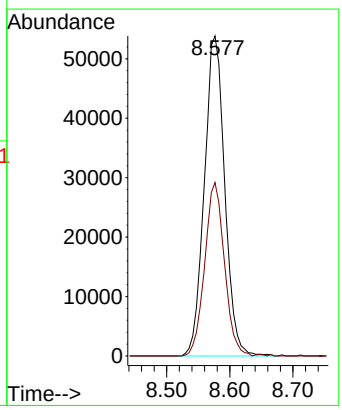


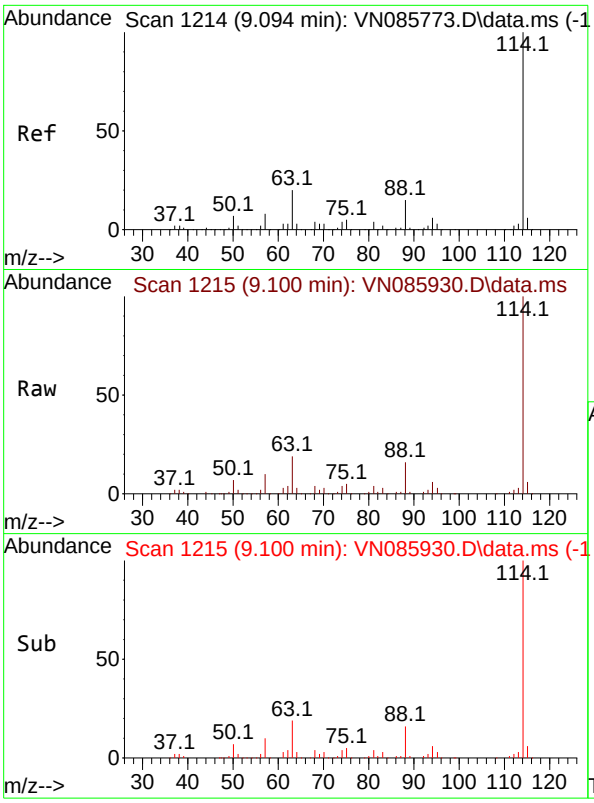


#33
1,2-Dichloroethane-d4
Concen: 56.110 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

Tgt Ion: 65 Resp: 120828

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.2



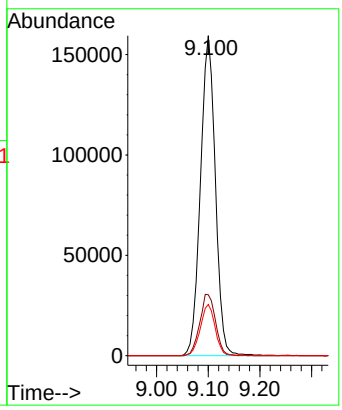


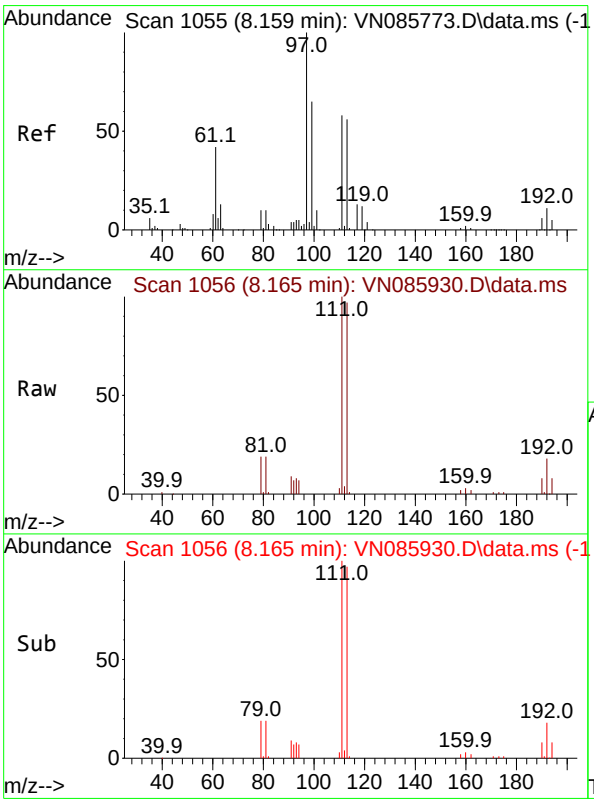
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBL01

Tgt Ion:114 Resp: 319285

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	39.2
88	16.0	0.0	30.0

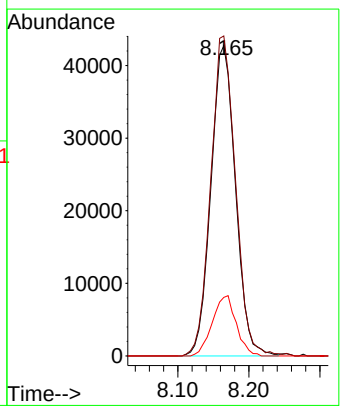


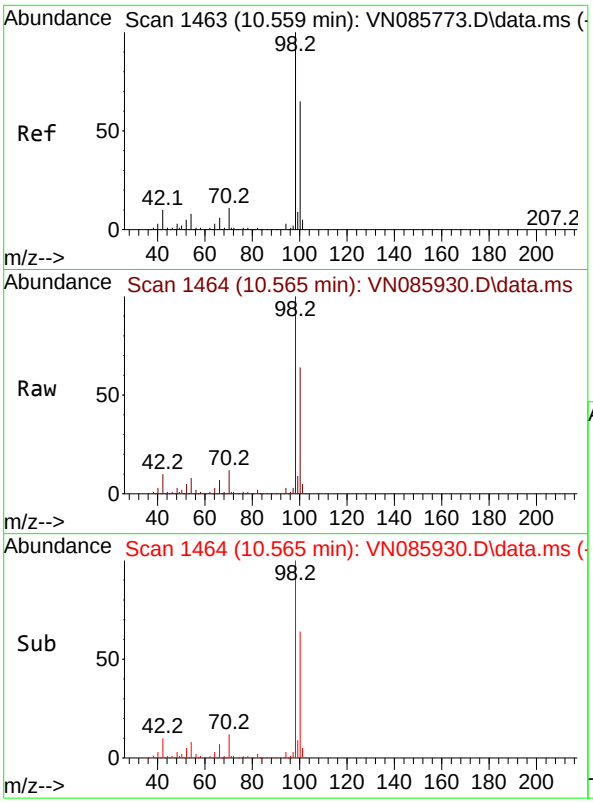


#35
Dibromofluoromethane
Concen: 49.016 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

Tgt Ion:113 Resp: 102406

Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.2	123.4
192	18.9	14.7	22.1



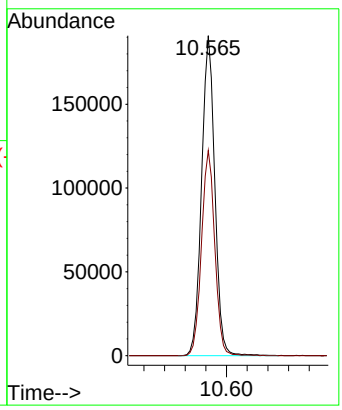


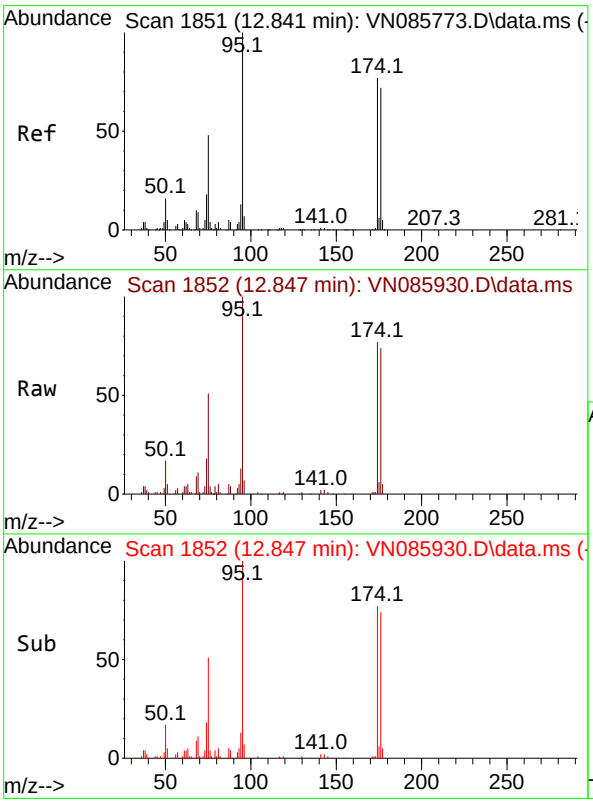
#50
Toluene-d8
Concen: 44.531 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBL01

Tgt Ion: 98 Resp: 338496

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.1	78.1

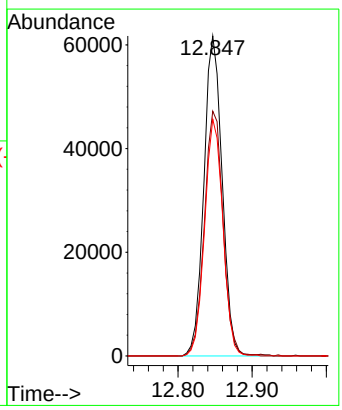


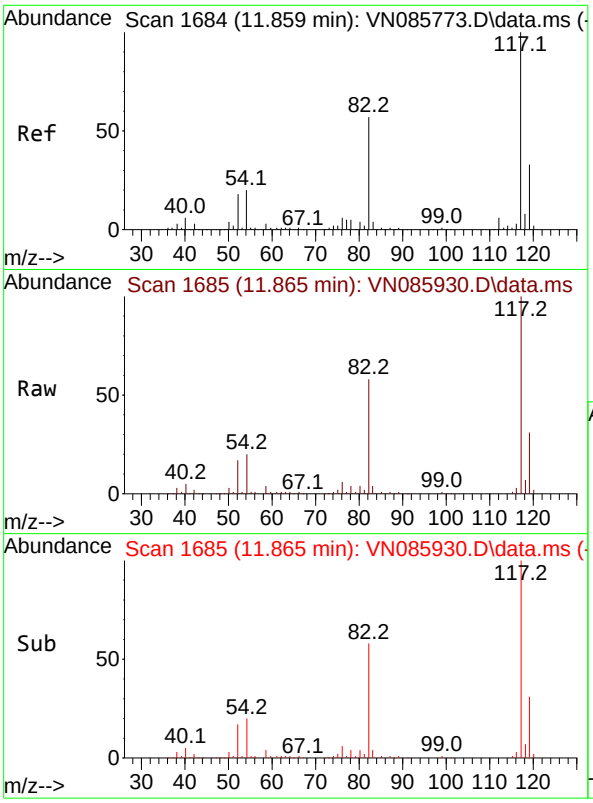


#62
4-Bromofluorobenzene
Concen: 42.240 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

Tgt Ion: 95 Resp: 105788

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	152.4
176	73.8	0.0	146.6



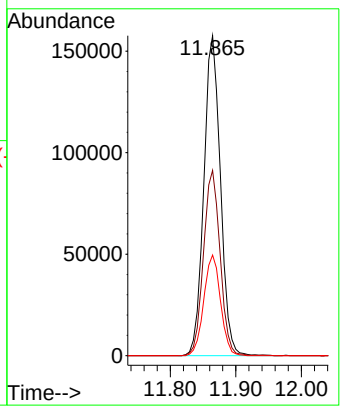


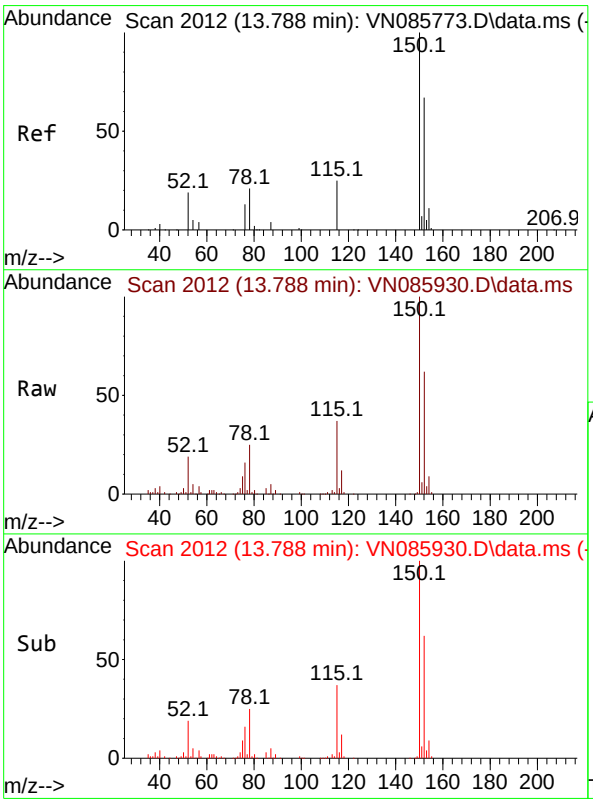
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBL01

Tgt Ion:117 Resp: 277562

Ion	Ratio	Lower	Upper
117	100		
82	57.9	45.7	68.5
119	31.5	26.2	39.2

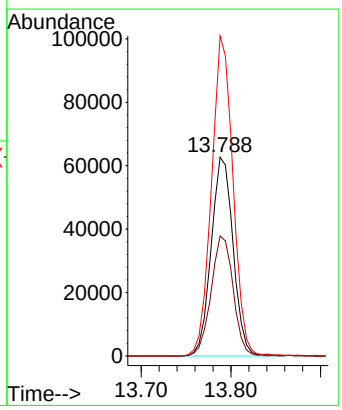




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

Tgt Ion:152 Resp: 106492

Ion	Ratio	Lower	Upper
152	100		
115	60.6	30.4	91.3
150	157.7	0.0	345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085931.D
Acq On : 11 Mar 2025 14:54
Operator : JC\MD
Sample : VN0311WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 01:20:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	171959	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	282309	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	250243	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128349	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	104493	46.871	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.740%		
35) Dibromofluoromethane	8.165	113	86656	46.910	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.820%		
50) Toluene-d8	10.565	98	311283	46.315	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.620%		
62) 4-Bromofluorobenzene	12.847	95	107765	48.665	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.320%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	46040	19.684	ug/l	95
3) Chloromethane	2.359	50	43998	18.746	ug/l	100
4) Vinyl Chloride	2.512	62	43138	17.359	ug/l	98
5) Bromomethane	2.954	94	27066	17.033	ug/l	98
6) Chloroethane	3.118	64	25922	15.748	ug/l	98
7) Trichlorofluoromethane	3.495	101	68309	18.985	ug/l	97
8) Diethyl Ether	3.959	74	20408	17.530	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.371	101	39761	19.118	ug/l	98
10) Methyl Iodide	4.589	142	46990	18.329	ug/l	97
11) Tert butyl alcohol	5.518	59	24987	91.127	ug/l #	90
12) 1,1-Dichloroethene	4.342	96	35866	19.019	ug/l	97
13) Acrolein	4.171	56	36561	89.914	ug/l	95
14) Allyl chloride	5.024	41	45099	18.215	ug/l	94
15) Acrylonitrile	5.718	53	88991	99.833	ug/l	98
16) Acetone	4.424	43	64479	91.405	ug/l	97
17) Carbon Disulfide	4.712	76	110141	19.707	ug/l	99
18) Methyl Acetate	5.024	43	38972	16.062	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	103840	18.531	ug/l	99
20) Methylene Chloride	5.271	84	42432	18.704	ug/l	91
21) trans-1,2-Dichloroethene	5.789	96	37463	18.450	ug/l	88
22) Diisopropyl ether	6.671	45	111397	19.912	ug/l	98
23) Vinyl Acetate	6.600	43	368840	96.289	ug/l	99
24) 1,1-Dichloroethane	6.571	63	72568	19.081	ug/l	98
25) 2-Butanone	7.477	43	99858	96.221	ug/l	99
26) 2,2-Dichloropropane	7.489	77	62578	18.505	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	42379	18.000	ug/l	97
28) Bromochloromethane	7.812	49	37741	24.145	ug/l	92
29) Tetrahydrofuran	7.841	42	65823	98.221	ug/l	99
30) Chloroform	7.965	83	75940	19.108	ug/l	99
31) Cyclohexane	8.253	56	59584	18.712	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	67340	19.050	ug/l	97
36) 1,1-Dichloropropene	8.365	75	49565	18.958	ug/l	99
37) Ethyl Acetate	7.553	43	41433	19.258	ug/l	99
38) Carbon Tetrachloride	8.359	117	61348	19.749	ug/l	93
39) Methylcyclohexane	9.600	83	45454	17.697	ug/l	91
40) Benzene	8.600	78	165147	19.709	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085931.D
Acq On : 11 Mar 2025 14:54
Operator : JC\MD
Sample : VN0311WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 01:20:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	22880	19.893	ug/l		98
42) 1,2-Dichloroethane	8.665	62	54080	19.814	ug/l		98
43) Isopropyl Acetate	8.688	43	72385	18.830	ug/l		99
44) Trichloroethene	9.347	130	36357	17.671	ug/l		99
45) 1,2-Dichloropropane	9.618	63	39742	19.649	ug/l		99
46) Dibromomethane	9.706	93	28013	19.635	ug/l		97
47) Bromodichloromethane	9.883	83	58843	19.278	ug/l		98
48) Methyl methacrylate	9.677	41	30151	18.870	ug/l		98
49) 1,4-Dioxane	9.694	88	12170	400.527	ug/l	#	92
51) 4-Methyl-2-Pentanone	10.441	43	211308	101.867	ug/l		98
52) Toluene	10.630	92	100609	20.483	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	53811	19.065	ug/l		97
54) cis-1,3-Dichloropropene	10.306	75	59621	19.264	ug/l		97
55) 1,1,2-Trichloroethane	11.012	97	38483	19.705	ug/l		97
56) Ethyl methacrylate	10.871	69	47794	18.623	ug/l		97
57) 1,3-Dichloropropane	11.159	76	63091	19.352	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	90341	96.936	ug/l		100
59) 2-Hexanone	11.194	43	146567	102.707	ug/l		99
60) Dibromochloromethane	11.353	129	44279	19.471	ug/l		98
61) 1,2-Dibromoethane	11.465	107	35743	19.371	ug/l		100
64) Tetrachloroethene	11.100	164	36978	19.074	ug/l		95
65) Chlorobenzene	11.888	112	106130	18.513	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.959	131	39196	19.022	ug/l		98
67) Ethyl Benzene	11.959	91	168567	18.771	ug/l		99
68) m/p-Xylenes	12.065	106	137476	40.303	ug/l		99
69) o-Xylene	12.394	106	61515	18.978	ug/l		100
70) Styrene	12.412	104	106050	19.044	ug/l		99
71) Bromoform	12.576	173	29845	19.493	ug/l	#	98
73) Isopropylbenzene	12.694	105	153371	17.442	ug/l		100
74) N-amyl acetate	12.494	43	55670	17.953	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	53621	17.721	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	55548m	19.483	ug/l		
77) Bromobenzene	12.976	156	41957	17.661	ug/l		96
78) n-propylbenzene	13.035	91	185851	18.455	ug/l		100
79) 2-Chlorotoluene	13.123	91	119676	17.787	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	135483	18.915	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	17168	17.570	ug/l		94
82) 4-Chlorotoluene	13.218	91	124042	18.596	ug/l		97
83) tert-Butylbenzene	13.435	119	101170	16.796	ug/l		95
84) 1,2,4-Trimethylbenzene	13.482	105	133778	18.877	ug/l		99
85) sec-Butylbenzene	13.612	105	150326	17.664	ug/l		99
86) p-Isopropyltoluene	13.729	119	121044	16.805	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	77221	17.350	ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	76516	16.773	ug/l		97
89) n-Butylbenzene	14.053	91	95450	15.797	ug/l		96
90) Hexachloroethane	14.329	117	26658	16.540	ug/l		95
91) 1,2-Dichlorobenzene	14.106	146	74904	17.501	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	8752	15.752	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	31181	15.289	ug/l		99
94) Hexachlorobutadiene	15.500	225	19246	15.528	ug/l		95
95) Naphthalene	15.641	128	78375	13.998	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	30568	14.930	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085931.D
Acq On : 11 Mar 2025 14:54
Operator : JC\MD
Sample : VN0311WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 01:20:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025

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

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

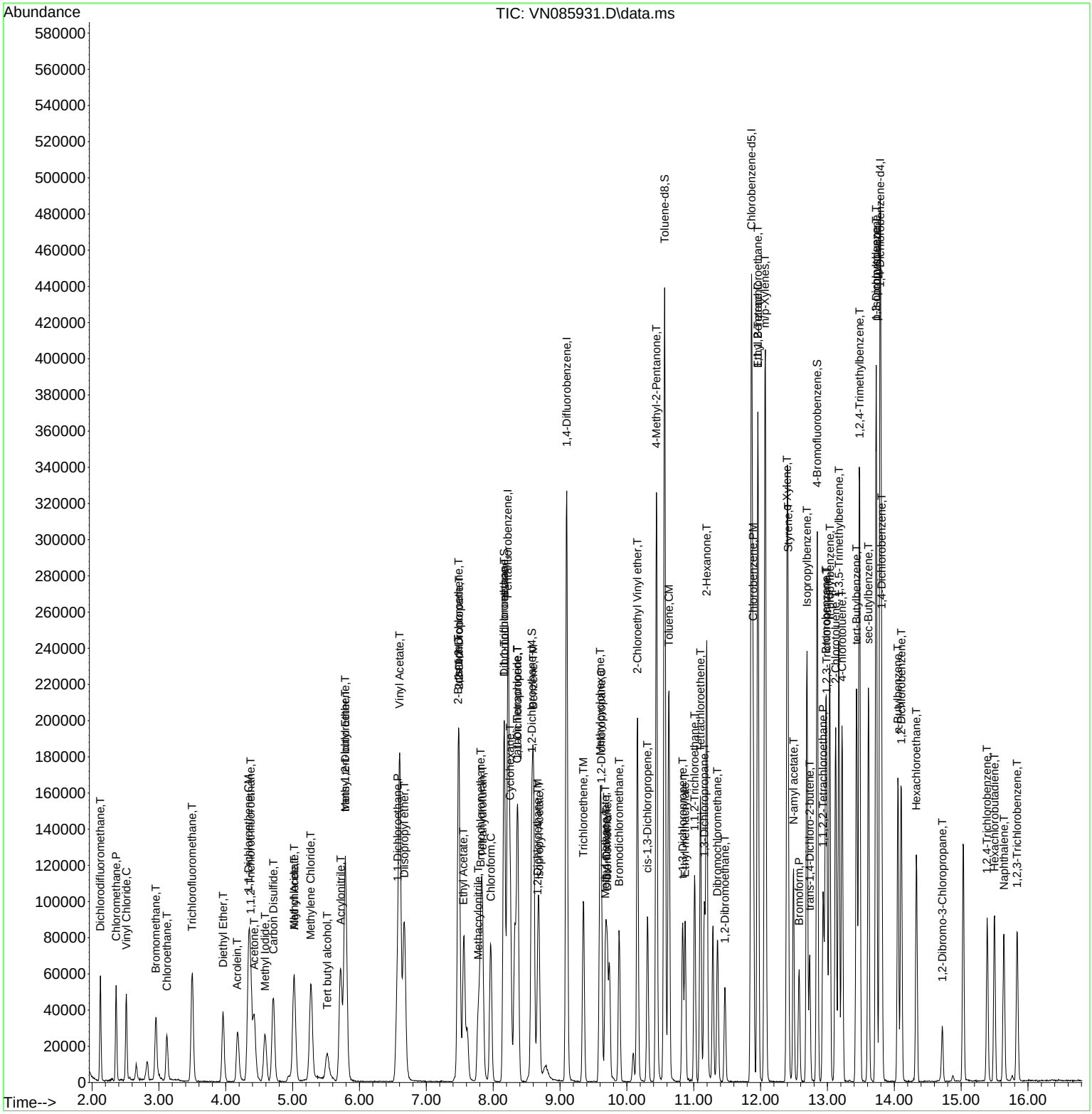
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085931.D
Acq On : 11 Mar 2025 14:54
Operator : JC\MD
Sample : VN0311WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 01:20:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085932.D
Acq On : 11 Mar 2025 15:28
Operator : JC\MD
Sample : VN0311WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 01:21:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	166815	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	269902	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	244088	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	123338	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	102925	47.591	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.180%			
35) Dibromofluoromethane	8.165	113	84117	47.628	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.260%			
50) Toluene-d8	10.565	98	299527	46.614	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.220%			
62) 4-Bromofluorobenzene	12.847	95	106317	50.218	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	44409	19.572	ug/l	99
3) Chloromethane	2.359	50	44374	19.489	ug/l	97
4) Vinyl Chloride	2.512	62	42608	17.674	ug/l	97
5) Bromomethane	2.953	94	24991	16.212	ug/l	97
6) Chloroethane	3.118	64	25347	15.873	ug/l	99
7) Trichlorofluoromethane	3.500	101	64484	18.475	ug/l	94
8) Diethyl Ether	3.959	74	20885	18.493	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.371	101	38431	19.048	ug/l	98
10) Methyl Iodide	4.588	142	45692	18.373	ug/l	94
11) Tert butyl alcohol	5.518	59	27546	103.558	ug/l #	85
12) 1,1-Dichloroethene	4.341	96	34031	18.603	ug/l	90
13) Acrolein	4.183	56	37037	93.894	ug/l	92
14) Allyl chloride	5.018	41	45313	18.866	ug/l	93
15) Acrylonitrile	5.712	53	89670	103.697	ug/l	98
16) Acetone	4.430	43	68828	100.579	ug/l	99
17) Carbon Disulfide	4.712	76	105501	19.459	ug/l	99
18) Methyl Acetate	5.024	43	40057	17.019	ug/l	96
19) Methyl tert-butyl Ether	5.794	73	104432	19.211	ug/l	96
20) Methylene Chloride	5.271	84	42240	19.194	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	35362	17.952	ug/l	97
22) Diisopropyl ether	6.671	45	110291	20.322	ug/l	96
23) Vinyl Acetate	6.600	43	373467	100.504	ug/l	99
24) 1,1-Dichloroethane	6.571	63	71060	19.261	ug/l	98
25) 2-Butanone	7.482	43	102911	102.220	ug/l	99
26) 2,2-Dichloropropane	7.482	77	59355	18.093	ug/l	97
27) cis-1,2-Dichloroethene	7.482	96	41008	17.955	ug/l	96
28) Bromochloromethane	7.812	49	36994	24.397	ug/l	94
29) Tetrahydrofuran	7.835	42	67190	103.352	ug/l	98
30) Chloroform	7.965	83	73399	19.038	ug/l	100
31) Cyclohexane	8.253	56	58750	19.019	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	65410	19.074	ug/l	99
36) 1,1-Dichloropropene	8.371	75	47425	18.974	ug/l	96
37) Ethyl Acetate	7.559	43	46512	22.612	ug/l	98
38) Carbon Tetrachloride	8.359	117	60097	20.235	ug/l	97
39) Methylcyclohexane	9.600	83	44632	18.176	ug/l	91
40) Benzene	8.600	78	158231	19.751	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085932.D
Acq On : 11 Mar 2025 15:28
Operator : JC\MD
Sample : VN0311WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 01:21:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	23989	21.816	ug/l		97
42) 1,2-Dichloroethane	8.671	62	52687	20.191	ug/l		99
43) Isopropyl Acetate	8.688	43	73303	19.978	ug/l		99
44) Trichloroethene	9.347	130	35475	18.035	ug/l		97
45) 1,2-Dichloropropane	9.612	63	39256	20.301	ug/l		97
46) Dibromomethane	9.706	93	27667	20.284	ug/l		96
47) Bromodichloromethane	9.882	83	57554	19.722	ug/l		98
48) Methyl methacrylate	9.676	41	31149	20.391	ug/l		99
49) 1,4-Dioxane	9.688	88	12981	446.857	ug/l		97
51) 4-Methyl-2-Pentanone	10.441	43	217937	109.892	ug/l		98
52) Toluene	10.629	92	97359	20.732	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	54176	20.077	ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	59404	20.076	ug/l		93
55) 1,1,2-Trichloroethane	11.012	97	36590	19.597	ug/l		97
56) Ethyl methacrylate	10.870	69	48469	19.676	ug/l		97
57) 1,3-Dichloropropane	11.159	76	62641	20.098	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	92918	104.180	ug/l		98
59) 2-Hexanone	11.194	43	154345	113.129	ug/l		99
60) Dibromochloromethane	11.359	129	45593	20.971	ug/l		95
61) 1,2-Dibromoethane	11.465	107	35932	20.368	ug/l		99
64) Tetrachloroethene	11.100	164	34886	18.449	ug/l		94
65) Chlorobenzene	11.888	112	102428	18.318	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	37980	18.897	ug/l		100
67) Ethyl Benzene	11.959	91	164011	18.725	ug/l		99
68) m/p-Xylenes	12.070	106	132245	39.747	ug/l		99
69) o-Xylene	12.400	106	60408	19.107	ug/l		98
70) Styrene	12.412	104	103470	19.049	ug/l		98
71) Bromoform	12.576	173	30578	20.475	ug/l	#	99
73) Isopropylbenzene	12.694	105	149903	17.740	ug/l		99
74) N-amyl acetate	12.494	43	56542	18.975	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	53436	18.378	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	51299m	18.724	ug/l		
77) Bromobenzene	12.976	156	41022	17.969	ug/l		93
78) n-propylbenzene	13.035	91	179451	18.544	ug/l		99
79) 2-Chlorotoluene	13.123	91	119913	18.546	ug/l		98
80) 1,3,5-Trimethylbenzene	13.170	105	130459	18.953	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	19541	20.811	ug/l		90
82) 4-Chlorotoluene	13.217	91	122450	19.104	ug/l		99
83) tert-Butylbenzene	13.435	119	102074	17.635	ug/l		96
84) 1,2,4-Trimethylbenzene	13.482	105	131448	19.302	ug/l		99
85) sec-Butylbenzene	13.611	105	145745	17.821	ug/l		99
86) p-Isopropyltoluene	13.729	119	119735	17.268	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	76798	17.956	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	77090	17.586	ug/l		100
89) n-Butylbenzene	14.053	91	95229	16.401	ug/l		96
90) Hexachloroethane	14.329	117	26609	17.180	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	73481	17.866	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	9607	17.993	ug/l		95
93) 1,2,4-Trichlorobenzene	15.394	180	31550	16.098	ug/l		99
94) Hexachlorobutadiene	15.494	225	18407	15.454	ug/l		98
95) Naphthalene	15.635	128	82066	15.252	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	31176	15.845	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085932.D
Acq On : 11 Mar 2025 15:28
Operator : JC\MD
Sample : VN0311WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 01:21:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025

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

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

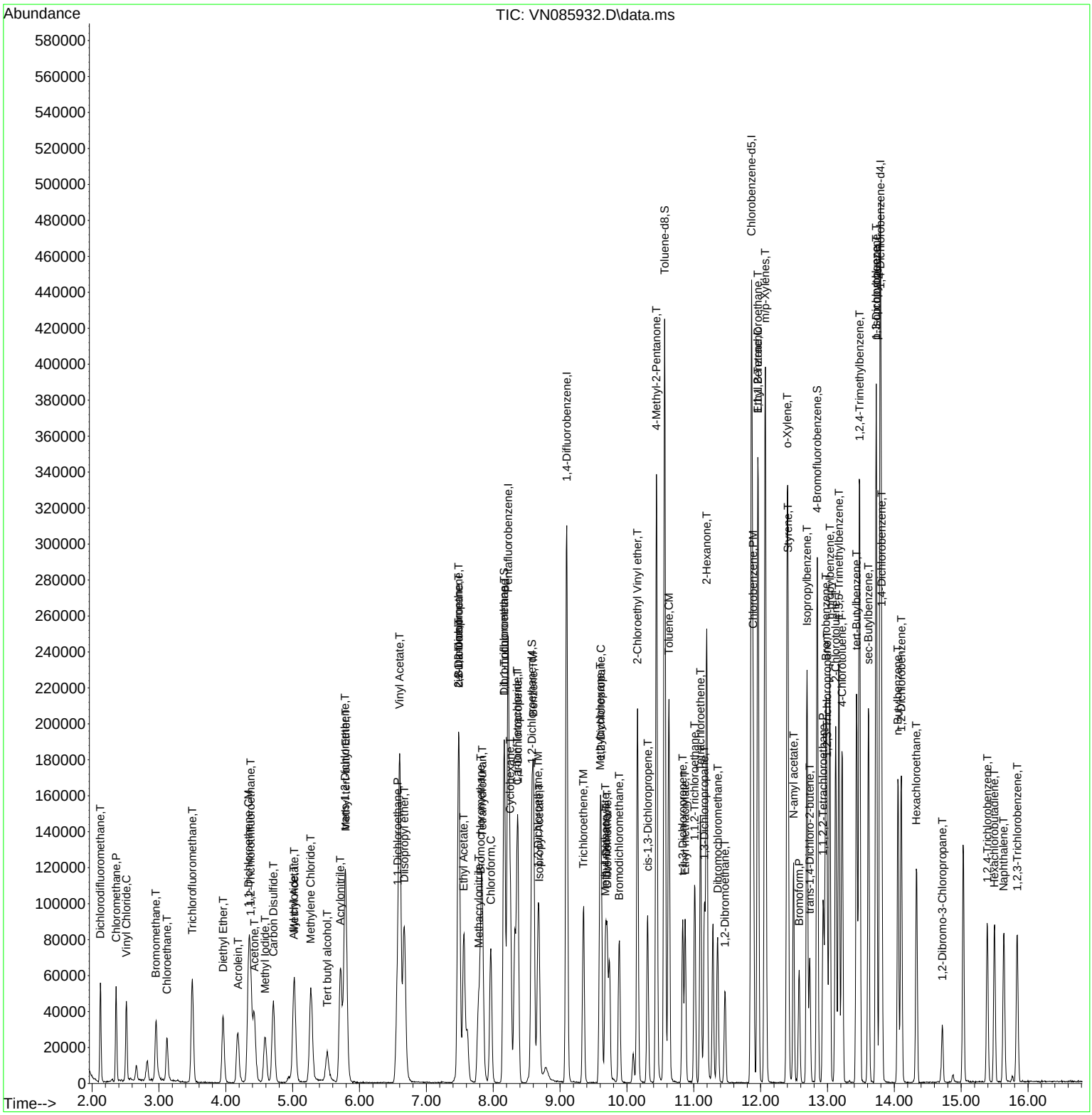
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085932.D
Acq On : 11 Mar 2025 15:28
Operator : JC\MD
Sample : VN0311WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 01:21:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025



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

Manual Integration Report

Sequence:	VN021825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085772.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:09 AM	MMDadoda	2/19/2025 12:44:43 PM	Peak Integrated by Software
VSTDICCC050	VN085773.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:14 AM	MMDadoda	2/19/2025 12:44:47 PM	Peak Integrated by Software
VSTDICC010	VN085775.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:23 AM	MMDadoda	2/19/2025 12:44:56 PM	Peak Integrated by Software
VSTDICC010	VN085775.D	Vinyl Acetate	JOHN	2/19/2025 9:44:23 AM	MMDadoda	2/19/2025 12:44:56 PM	Peak Integrated by Software
VSTDICC005	VN085776.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:27 AM	MMDadoda	2/19/2025 12:45:01 PM	Peak Integrated by Software
VSTDICC005	VN085776.D	Vinyl Acetate	JOHN	2/19/2025 9:44:27 AM	MMDadoda	2/19/2025 12:45:01 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	1,4-Dichlorobenzene	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	2,2-Dichloropropane	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Allyl chloride	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Diethyl Ether	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Vinyl Acetate	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC020	VN085779.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:37 AM	MMDadoda	2/19/2025 12:45:09 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN021825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VN085780.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:42 AM	MMDadoda	2/19/2025 12:45:13 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN031125	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085928.D	1,2,3-Trichloropropane	JOHN	3/12/2025 9:46:21 AM	MMDadoda	3/12/2025 3:16:48 PM	Peak Integrated by Software
VN0311WBS01	VN085931.D	1,2,3-Trichloropropane	JOHN	3/12/2025 9:46:26 AM	MMDadoda	3/12/2025 3:16:49 PM	Peak Integrated by Software
VN0311WBSD01	VN085932.D	1,2,3-Trichloropropane	JOHN	3/12/2025 9:46:30 AM	MMDadoda	3/12/2025 3:16:50 PM	Peak Integrated by Software
VSTDCCC050	VN085952.D	1,2,3-Trichloropropane	JOHN	3/12/2025 9:46:55 AM	MMDadoda	3/12/2025 3:16:58 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN021825

Review By	John Carlone	Review On	2/19/2025 9:44:55 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/19/2025 1:34:51 PM		
SubDirectory	VN021825	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133068
Initial Calibration Stds	VP133070,VP133071,VP133072,VP133073,VP133074,VP133075
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP133076
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085771.D	18 Feb 2025 10:35	JC\MD	Ok
2	VSTDICC100	VN085772.D	18 Feb 2025 11:09	JC\MD	Ok,M
3	VSTDICCC050	VN085773.D	18 Feb 2025 11:32	JC\MD	Ok,M
4	VSTDICC020	VN085774.D	18 Feb 2025 11:56	JC\MD	Not Ok
5	VSTDICC010	VN085775.D	18 Feb 2025 12:20	JC\MD	Ok,M
6	VSTDICC005	VN085776.D	18 Feb 2025 12:43	JC\MD	Ok,M
7	VSTDICC001	VN085777.D	18 Feb 2025 13:07	JC\MD	Ok,M
8	IBLK	VN085778.D	18 Feb 2025 13:54	JC\MD	Ok
9	VSTDICC020	VN085779.D	18 Feb 2025 14:18	JC\MD	Ok,M
10	VSTDICV050	VN085780.D	18 Feb 2025 16:28	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN031125

Review By	John Carlone	Review On	3/12/2025 9:49:06 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/12/2025 3:17:04 PM		
SubDirectory	VN031125	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133247
Initial Calibration Stds	
CCC	VP133248,VP133249
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085927.D	11 Mar 2025 12:12	JC\MD	Ok
2	VSTDCCC050	VN085928.D	11 Mar 2025 13:22	JC\MD	Ok,M
3	VN0311MBL01	VN085929.D	11 Mar 2025 13:56	JC\MD	Ok
4	VN0311WBL01	VN085930.D	11 Mar 2025 14:21	JC\MD	Ok
5	VN0311WBS01	VN085931.D	11 Mar 2025 14:54	JC\MD	Ok,M
6	VN0311WBSD01	VN085932.D	11 Mar 2025 15:28	JC\MD	Ok,M
7	PB167050TB	VN085933.D	11 Mar 2025 15:52	JC\MD	Ok
8	Q1514-09	VN085934.D	11 Mar 2025 16:16	JC\MD	Ok
9	PB167050ZHE#02	VN085935.D	11 Mar 2025 16:40	JC\MD	Ok
10	PB167050ZHE#03	VN085936.D	11 Mar 2025 17:04	JC\MD	Ok
11	PB167050ZHE#04	VN085937.D	11 Mar 2025 17:28	JC\MD	Ok
12	PB167050ZHE#05	VN085938.D	11 Mar 2025 17:52	JC\MD	Ok
13	PB167050ZHE#06	VN085939.D	11 Mar 2025 18:16	JC\MD	Ok
14	PB167050ZHE#07	VN085940.D	11 Mar 2025 18:40	JC\MD	Ok
15	PB167050ZHE#08	VN085941.D	11 Mar 2025 19:04	JC\MD	Ok
16	PB167050ZHE#09	VN085942.D	11 Mar 2025 19:29	JC\MD	Ok
17	Q1534-06	VN085943.D	11 Mar 2025 19:53	JC\MD	Ok,M
18	Q1534-12	VN085944.D	11 Mar 2025 20:17	JC\MD	Ok,M
19	Q1534-18	VN085945.D	11 Mar 2025 20:41	JC\MD	Ok,M
20	Q1534-24	VN085946.D	11 Mar 2025 21:05	JC\MD	Ok,M
21	Q1514-02	VN085947.D	11 Mar 2025 21:29	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN031125

Review By	John Carlone	Review On	3/12/2025 9:49:06 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/12/2025 3:17:04 PM		
SubDirectory	VN031125	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133247
Initial Calibration Stds	
CCC	VP133248,VP133249
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1514-04	VN085948.D	11 Mar 2025 21:53	JC\MD	Ok
23	Q1514-06	VN085949.D	11 Mar 2025 22:17	JC\MD	Ok
24	Q1523-01	VN085950.D	11 Mar 2025 22:41	JC\MD	Ok
25	Q1523-04	VN085951.D	11 Mar 2025 23:05	JC\MD	Ok
26	VSTDCCC050	VN085952.D	11 Mar 2025 23:29	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN021825

Review By	John Carlone	Review On	2/19/2025 9:44:55 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/19/2025 1:34:51 PM		
SubDirectory	VN021825	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133068
Initial Calibration Stds	VP133070,VP133071,VP133072,VP133073,VP133074,VP133075
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP133076
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085771.D	18 Feb 2025 10:35		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN085772.D	18 Feb 2025 11:09	Comp.#43 is on Linear Regression	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN085773.D	18 Feb 2025 11:32	Comp.#56,58,70,86 is on Quadratic Regression	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN085774.D	18 Feb 2025 11:56	Not used	JC\MD	Not Ok
5	VSTDICC010	VSTDICC010	VN085775.D	18 Feb 2025 12:20		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN085776.D	18 Feb 2025 12:43	%D failed for Comp. #58 in 01PPB, 05PPB and 20PPB	JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN085777.D	18 Feb 2025 13:07		JC\MD	Ok,M
8	IBLK	IBLK	VN085778.D	18 Feb 2025 13:54		JC\MD	Ok
9	VSTDICC020	VSTDICC020	VN085779.D	18 Feb 2025 14:18		JC\MD	Ok,M
10	VSTDICV050	ICVVN021825	VN085780.D	18 Feb 2025 16:28	ICV Failed for comp. #95	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN031125

Review By	John Carlone	Review On	3/12/2025 9:49:06 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/12/2025 3:17:04 PM		
SubDirectory	VN031125	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133247
Initial Calibration Stds	
CCC	VP133248,VP133249
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	VN085927.D	11 Mar 2025 12:12		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085928.D	11 Mar 2025 13:22	pH#Lot#V12668	JC\MD	Ok,M
3	VN0311MBL01	VN0311MBL01	VN085929.D	11 Mar 2025 13:56		JC\MD	Ok
4	VN0311WBL01	VN0311WBL01	VN085930.D	11 Mar 2025 14:21		JC\MD	Ok
5	VN0311WBS01	VN0311WBS01	VN085931.D	11 Mar 2025 14:54		JC\MD	Ok,M
6	VN0311WBSD01	VN0311WBSD01	VN085932.D	11 Mar 2025 15:28		JC\MD	Ok,M
7	PB167050TB	PB167050TB	VN085933.D	11 Mar 2025 15:52		JC\MD	Ok
8	Q1514-09	FB03062025	VN085934.D	11 Mar 2025 16:16	vial B pH<2 FB	JC\MD	Ok
9	PB167050ZHE#02	PB167050ZHE#02	VN085935.D	11 Mar 2025 16:40		JC\MD	Ok
10	PB167050ZHE#03	PB167050ZHE#03	VN085936.D	11 Mar 2025 17:04		JC\MD	Ok
11	PB167050ZHE#04	PB167050ZHE#04	VN085937.D	11 Mar 2025 17:28		JC\MD	Ok
12	PB167050ZHE#05	PB167050ZHE#05	VN085938.D	11 Mar 2025 17:52		JC\MD	Ok
13	PB167050ZHE#06	PB167050ZHE#06	VN085939.D	11 Mar 2025 18:16		JC\MD	Ok
14	PB167050ZHE#07	PB167050ZHE#07	VN085940.D	11 Mar 2025 18:40		JC\MD	Ok
15	PB167050ZHE#08	PB167050ZHE#08	VN085941.D	11 Mar 2025 19:04		JC\MD	Ok
16	PB167050ZHE#09	PB167050ZHE#09	VN085942.D	11 Mar 2025 19:29		JC\MD	Ok
17	Q1534-06	OR-363-COMP-16	VN085943.D	11 Mar 2025 19:53	vial A pH#5.0	JC\MD	Ok,M
18	Q1534-12	OR-363-COMP-17	VN085944.D	11 Mar 2025 20:17	vial A pH#5.0	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN031125

Review By	John Carlone	Review On	3/12/2025 9:49:06 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/12/2025 3:17:04 PM		
SubDirectory	VN031125	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133247
Initial Calibration Stds	
CCC	VP133248,VP133249
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1534-18	OR-363-COMP-18	VN085945.D	11 Mar 2025 20:41	vial A pH#5.0	JC\MD	Ok,M
20	Q1534-24	OR-363OR-363-COMP	VN085946.D	11 Mar 2025 21:05	vial A pH#5.0	JC\MD	Ok,M
21	Q1514-02	ENV-105-SB01	VN085947.D	11 Mar 2025 21:29	vial A pH#5.0	JC\MD	Ok
22	Q1514-04	ENV-105-SB02	VN085948.D	11 Mar 2025 21:53	vial A pH#5.0	JC\MD	Ok
23	Q1514-06	ENV-103-SB01	VN085949.D	11 Mar 2025 22:17	vial A pH#5.0	JC\MD	Ok
24	Q1523-01	WC-A1-01-G	VN085950.D	11 Mar 2025 22:41	vial A pH#5.0	JC\MD	Ok
25	Q1523-04	WC-A1-02-G	VN085951.D	11 Mar 2025 23:05	vial A pH#5.0	JC\MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VN085952.D	11 Mar 2025 23:29		JC\MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1514	**OrderDate:**	3/6/2025 2:08:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	I31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1514-02	**ENV-105-SB01**	**TCLP**			**03/05/25**			**03/06/25**
			TCLP VOA	8260D			03/11/25	
Q1514-04	**ENV-105-SB02**	**TCLP**			**03/05/25**			**03/06/25**
			TCLP VOA	8260D			03/11/25	
Q1514-06	**ENV-103-SB01**	**TCLP**			**03/05/25**			**03/06/25**
			TCLP VOA	8260D			03/11/25	

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167050

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

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 : 03/10/2025 **Time :** 15:30

End Prep Date : 03/11/2025 **Time :** 09:45

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ VN031125.

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JP

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	WP110802
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	23237	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
03/11/25 10:30	JP TCLP Room	100C Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167050

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
PB167050TB	LEB050	10	N/A	500	N/A	N/A	N/A	4.94	N/A	ZHE-1
Q1514-02	ENV-105-SB01	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1514-04	ENV-105-SB02	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1514-06	ENV-103-SB01	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1523-01	WC-A1-01-G	04	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1523-04	WC-A1-02-G	05	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1534-06	OR-363-COMP-16	06	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1534-12	OR-363-COMP-17	07	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1534-18	OR-363-COMP-18	08	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1534-24	OR-363OR-363-COMP-19-	09	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167050TB	LEB050	N/A	N/A	N/A	N/A	N/A	N/A
Q1514-02	ENV-105-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1514-04	ENV-105-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1514-06	ENV-103-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1523-01	WC-A1-01-G	N/A	N/A	N/A	N/A	100	N/A
Q1523-04	WC-A1-02-G	N/A	N/A	N/A	N/A	100	N/A
Q1534-06	OR-363-COMP-16	N/A	N/A	N/A	N/A	100	N/A
Q1534-12	OR-363-COMP-17	N/A	N/A	N/A	N/A	100	N/A
Q1534-18	OR-363-COMP-18	N/A	N/A	N/A	N/A	100	N/A
Q1534-24	OR-363OR-363-COMP-19-	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHW Q1534 **WorkList ID :** 188162 **Department :** TCLP Extraction **Date :** 03-10-2025 13:43:59

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1514-02	ENV-105-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	I31	03/05/2025	1311 ZHE
Q1514-04	ENV-105-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	I31	03/05/2025	1311 ZHE
Q1514-06	ENV-103-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	I31	03/05/2025	1311 ZHE
Q1523-01	WC-A1-01-G	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	I31	03/05/2025	1311 ZHE
Q1523-04	WC-A1-02-G	Solid	TCLP ZHE Extraction	Cool 4 deg C	ENTA05	I31	03/06/2025	1311 ZHE
Q1534-06	OR-363-COMP-16	Solid	TCLP ZHE Extraction	Cool 4 deg C	ENTA05	I31	03/06/2025	1311 ZHE
Q1534-12	OR-363-COMP-17	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	H31	03/07/2025	1311 ZHE
Q1534-18	OR-363-COMP-18	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	H31	03/07/2025	1311 ZHE
Q1534-24	OR-363OR-363-COMP-19-	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	H31	03/07/2025	1311 ZHE

Date/Time 03/10/25 13:55

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 03/10/25 17:30

Raw Sample Received by:

Raw Sample Relinquished by: