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

Hit Summary Sheet
SW-846

SDG No.: Q2198

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: **VN086905.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-02	Matrix:	TCLP
Analytical Method:	8260D	% 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
VN086905.D	1		06/09/25 15:08	VN060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.4		70 (74) - 130 (125)	85%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	50.7		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	429000	8.229			
540-36-3	1,4-Difluorobenzene	754000	9.106			
3114-55-4	Chlorobenzene-d5	652000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	315000	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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-04	Matrix:	TCLP
Analytical Method:	8260D	% 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
VN086906.D	1		06/09/25 15:30	VN060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.6		70 (74) - 130 (125)	87%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	50.9		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	420000	8.23			
540-36-3	1,4-Difluorobenzene	749000	9.106			
3114-55-4	Chlorobenzene-d5	650000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	318000	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.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2198-02	B-202-SB02	1,2-Dichloroethane-d4	50	42.4	85	70 (74)	130 (125)
		Dibromofluoromethane	50	48.0	96	70 (75)	130 (124)
		Toluene-d8	50	50.8	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.7	97	70 (77)	130 (121)
Q2198-04	B-207-SB02	1,2-Dichloroethane-d4	50	43.6	87	70 (74)	130 (125)
		Dibromofluoromethane	50	48.4	97	70 (75)	130 (124)
		Toluene-d8	50	50.9	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.9	98	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VN0609WBL01	VN0609WBL01	1,2-Dichloroethane-d4	50	42.8	86	70 (74)	130 (125)
		Dibromofluoromethane	50	48.1	96	70 (75)	130 (124)
		Toluene-d8	50	50.7	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.9	98	70 (77)	130 (121)
VN0609WBS01	VN0609WBS01	1,2-Dichloroethane-d4	50	56.6	113	70 (74)	130 (125)
		Dibromofluoromethane	50	58.6	117	70 (75)	130 (124)
		Toluene-d8	50	55.2	110	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.7	111	70 (77)	130 (121)
VN0609WBSD0	VN0609WBSD01	1,2-Dichloroethane-d4	50	44.5	89	70 (74)	130 (125)
		Dibromofluoromethane	50	50.5	101	70 (75)	130 (124)
		Toluene-d8	50	48.2	96	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.7	95	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN086893.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0609WBS01	Vinyl chloride	20	18.3	ug/L	92			70 (65)	130 (117)	
	1,1-Dichloroethene	20	20.1	ug/L	101			70 (74)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.3	ug/L	97			70 (77)	130 (113)	
	Chloroform	20	20.0	ug/L	100			70 (79)	130 (113)	
	Benzene	20	20.2	ug/L	101			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.4	ug/L	107			70 (80)	130 (115)	
	Trichloroethene	20	20.9	ug/L	104			70 (77)	130 (113)	
	Tetrachloroethene	20	19.5	ug/L	98			70 (67)	130 (123)	
	Chlorobenzene	20	20.9	ug/L	104			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN086902.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0609WBSD01	Vinyl chloride	20	18.2	ug/L	91	1		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	19.5	ug/L	98	3		70 (74)	130 (110)	20 (20)
	2-Butanone	100	82.3	ug/L	82	20		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.4	ug/L	97	0		70 (77)	130 (113)	20 (20)
	Chloroform	20	18.4	ug/L	92	8		70 (79)	130 (113)	20 (20)
	Benzene	20	19.0	ug/L	95	6		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	18.8	ug/L	94	13		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	20.4	ug/L	102	2		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	19.2	ug/L	96	2		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	20.3	ug/L	102	2		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0609WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VN086890.D Lab Sample ID: VN0609WBL01

Date Analyzed: 06/09/2025 Time Analyzed: 09:33

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
VN0609WBS01	VN0609WBS01	VN086893.D	06/09/2025
VN0609WBSD01	VN0609WBSD01	VN086902.D	06/09/2025
B-202-SB02	Q2198-02	VN086905.D	06/09/2025
B-207-SB02	Q2198-04	VN086906.D	06/09/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VN086861.D BFB Injection Date: 06/06/2025

Instrument ID: MSVOA_N BFB Injection Time: 07:59

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	66.6
175	5.0 - 9.0% of mass 174	4.7 (7.1) 1
176	95.0 - 101.0% of mass 174	65.3 (98.1) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 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
VSTDICC001	VSTDICC001	VN086862.D	06/06/2025	12:44
VSTDICC005	VSTDICC005	VN086863.D	06/06/2025	13:17
VSTDICC020	VSTDICC020	VN086864.D	06/06/2025	13:40
VSTDICCC050	VSTDICCC050	VN086865.D	06/06/2025	14:03
VSTDICC100	VSTDICC100	VN086866.D	06/06/2025	14:26
VSTDICC150	VSTDICC150	VN086867.D	06/06/2025	14:49

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VN086887.D BFB Injection Date: 06/09/2025

Instrument ID: MSVOA_N BFB Injection Time: 08:04

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	15.3
75	30.0 - 60.0% of mass 95	46.4
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	0.4 (0.5) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.7 (7.8) 1
176	95.0 - 101.0% of mass 174	70.4 (95.8) 1
177	5.0 - 9.0% of mass 176	4.9 (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
VSTDCCC050	VSTDCCC050	VN086888.D	06/09/2025	08:37
VN0609WBL01	VN0609WBL01	VN086890.D	06/09/2025	09:33
VN0609WBS01	VN0609WBS01	VN086893.D	06/09/2025	10:50
VN0609WBSD01	VN0609WBSD01	VN086902.D	06/09/2025	14:04
B-202-SB02	Q2198-02	VN086905.D	06/09/2025	15:08
B-207-SB02	Q2198-04	VN086906.D	06/09/2025	15:30

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VN086888.D Date Analyzed: 06/09/2025

Instrument ID: MSVOA_N Time Analyzed: 08:37

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	261450	8.23	451735	9.11	380922	11.87
UPPER LIMIT	522900	8.729	903470	9.606	761844	12.365
LOWER LIMIT	130725	7.729	225868	8.606	190461	11.365
EPA SAMPLE NO.						
B-202-SB02	429044	8.23	754017	9.11	651717	11.87
B-207-SB02	419597	8.23	749093	9.11	650156	11.87
VN0609WBL01	390256	8.23	684606	9.11	591728	11.87
VN0609WBS01	266986	8.23	481053	9.11	422488	11.87
VN0609WBSD01	261604	8.23	462540	9.11	392287	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.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VN086888.D Date Analyzed: 06/09/2025

Instrument ID: MSVOA_N Time Analyzed: 08:37

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

	IS4 AREA #	RT #				
12 HOUR STD	178512	13.788				
UPPER LIMIT	357024	14.288				
LOWER LIMIT	89256	13.288				
EPA SAMPLE NO.						
B-202-SB02	315202	13.79				
B-207-SB02	318394	13.79				
VN0609WBL01	288224	13.79				
VN0609WBS01	202169	13.79				
VN0609WBSD01	182953	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

QC SAMPLE DATA

Raw Data: **VN086890.D**

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

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0609WBL01	SDG No.:	Q2198
Lab Sample ID:	VN0609WBL01	Matrix:	TCLP
Analytical Method:	8260D	% 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
VN086890.D	1		06/09/25 09:33	VN060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.8		70 (74) - 130 (125)	86%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	50.7		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	390000	8.229			
540-36-3	1,4-Difluorobenzene	685000	9.106			
3114-55-4	Chlorobenzene-d5	592000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	288000	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
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* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VN086893.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:	VN0609WBS01	SDG No.:	Q2198
Lab Sample ID:	VN0609WBS01	Matrix:	TCLP
Analytical Method:	8260D	% 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
VN086893.D	1		06/09/25 10:50	VN060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.3		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.1		0.23	1.00	ug/L
78-93-3	2-Butanone	100		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.3		0.25	1.00	ug/L
67-66-3	Chloroform	20.0		0.25	1.00	ug/L
71-43-2	Benzene	20.2		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.9		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	19.5		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.9		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.6		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	58.6		70 (75) - 130 (124)	117%	SPK: 50
2037-26-5	Toluene-d8	55.2		70 (86) - 130 (113)	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.7		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	267000	8.23			
540-36-3	1,4-Difluorobenzene	481000	9.106			
3114-55-4	Chlorobenzene-d5	422000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	202000	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: **VN086902.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:	VN0609WBSD01	SDG No.:	Q2198
Lab Sample ID:	VN0609WBSD01	Matrix:	TCLP
Analytical Method:	8260D	% 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
VN086902.D	1		06/09/25 14:04	VN060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.2		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.5		0.23	1.00	ug/L
78-93-3	2-Butanone	82.3		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.4		0.25	1.00	ug/L
67-66-3	Chloroform	18.4		0.25	1.00	ug/L
71-43-2	Benzene	19.0		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.4		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.3		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.4		70 (74) - 130 (125)	89%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	262000	8.23			
540-36-3	1,4-Difluorobenzene	463000	9.106			
3114-55-4	Chlorobenzene-d5	392000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	183000	13.788			

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

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

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49

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

LAB FILE ID: RRF001 = VN086862.D RRF005 = VN086863.D RRF020 = VN086864.D
RRF050 = VN086865.D RRF100 = VN086866.D RRF150 = VN086867.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.5
1,1-Dichloroethene	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.4
2-Butanone	0.604	0.598	0.604	0.551	0.573	0.533	0.577	5.2
Carbon Tetrachloride	0.453	0.449	0.434	0.409	0.435	0.421	0.433	3.9
Chloroform	1.235	1.152	1.145	1.061	1.085	1.030	1.118	6.7
Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.2
1,2-Dichloroethane	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.6
Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.328	0.342	4.2
Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.5
Chlorobenzene	1.233	1.135	1.107	1.023	1.089	1.030	1.103	7
1,2-Dichloroethane-d4		0.732	0.707	0.500	0.656	0.751	0.669	15.1
Dibromofluoromethane		0.303	0.310	0.219	0.298	0.351	0.296	16.2
Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.2
4-Bromofluorobenzene		0.441	0.446	0.325	0.446	0.521	0.436	16.2

* 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.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: MSVOA_N Calibration Date/Time: 06/09/2025 08:37

Lab File ID: VN086888.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.664	0.635		-4.37	20
1,1-Dichloroethene	0.557	0.556		-0.18	20
2-Butanone	0.577	0.476		-17.5	20
Carbon Tetrachloride	0.433	0.431		-0.46	20
Chloroform	1.118	1.055		-5.64	20
Benzene	1.444	1.423		-1.45	20
1,2-Dichloroethane	0.438	0.420		-4.11	20
Trichloroethene	0.342	0.352		2.92	20
Tetrachloroethene	0.316	0.318		0.63	20
Chlorobenzene	1.103	1.140	0.3	3.35	20
1,2-Dichloroethane-d4	0.669	0.579		-13.45	20
Dibromofluoromethane	0.296	0.295		-0.34	20
Toluene-d8	1.173	1.125		-4.09	20
4-Bromofluorobenzene	0.436	0.405		-7.11	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\VN060925\
Data File : VN086905.D
Acq On : 09 Jun 2025 15:08
Operator : JC\MD
Sample : Q2198-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Quant Time: Jun 10 03:34:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

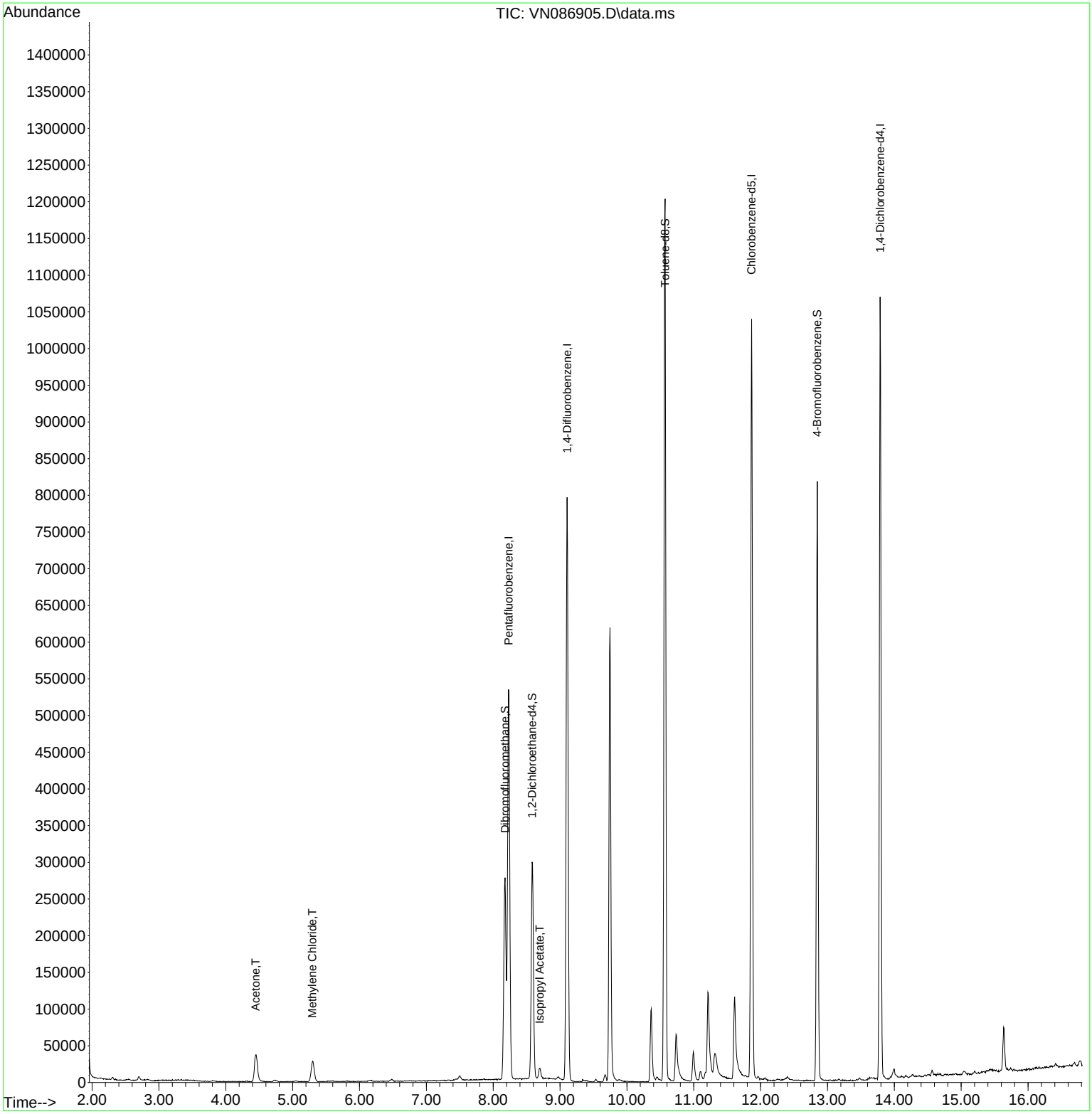
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	429044	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	754017	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	651717	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	315202	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	243428	42.376	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 84.760%			
35) Dibromofluoromethane	8.177	113	214624	48.031	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.060%			
50) Toluene-d8	10.570	98	897684	50.747	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.500%			
62) 4-Bromofluorobenzene	12.847	95	319909	48.676	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.360%			
Target Compounds						Qvalue
16) Acetone	4.447	43	75986	24.944	ug/l	97
20) Methylene Chloride	5.294	84	25077	4.397	ug/l	90
43) Isopropyl Acetate	8.694	43	17428	1.281	ug/l	97

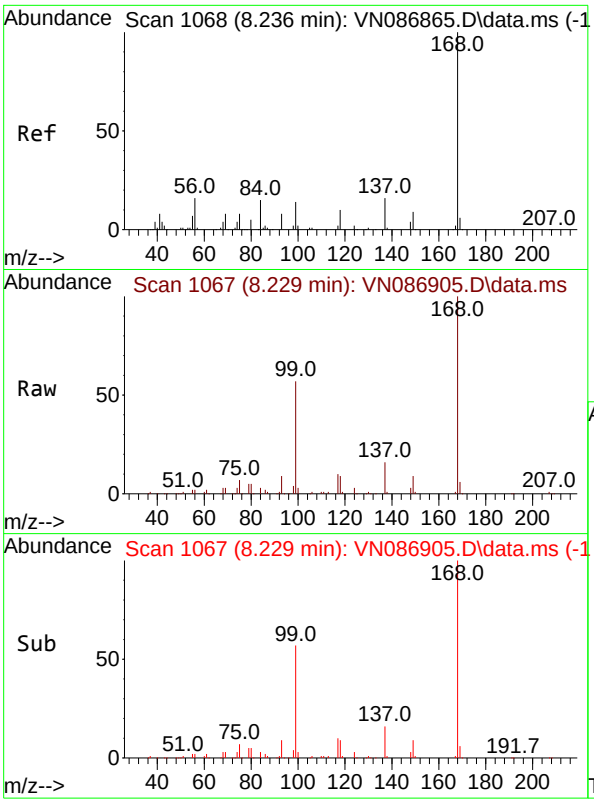
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086905.D
Acq On : 09 Jun 2025 15:08
Operator : JC\MD
Sample : Q2198-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Quant Time: Jun 10 03:34:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



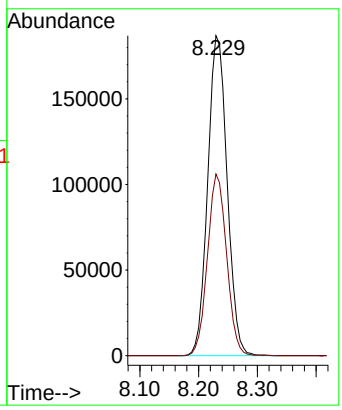


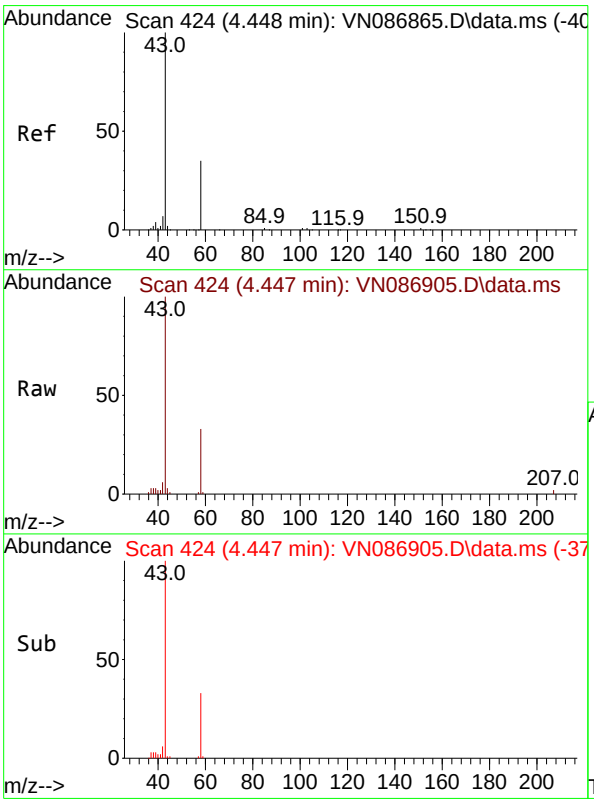
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Tgt Ion:168 Resp: 429044

Ion	Ratio	Lower	Upper
168	100		
99	56.7	49.1	73.7

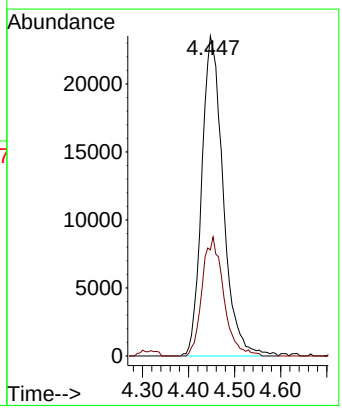


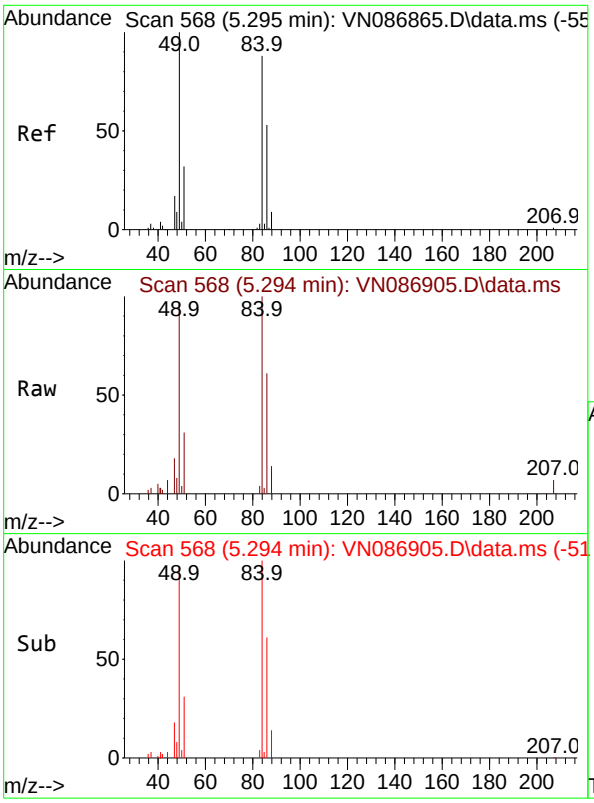


#16
Acetone
Concen: 24.944 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Tgt Ion: 43 Resp: 75986

Ion	Ratio	Lower	Upper
43	100		
58	33.1	28.0	42.0



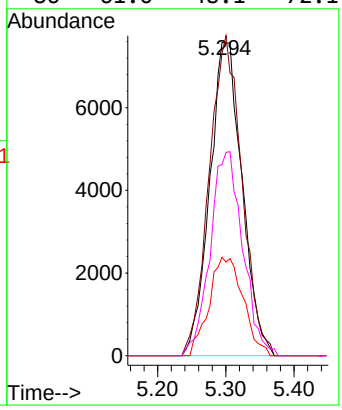


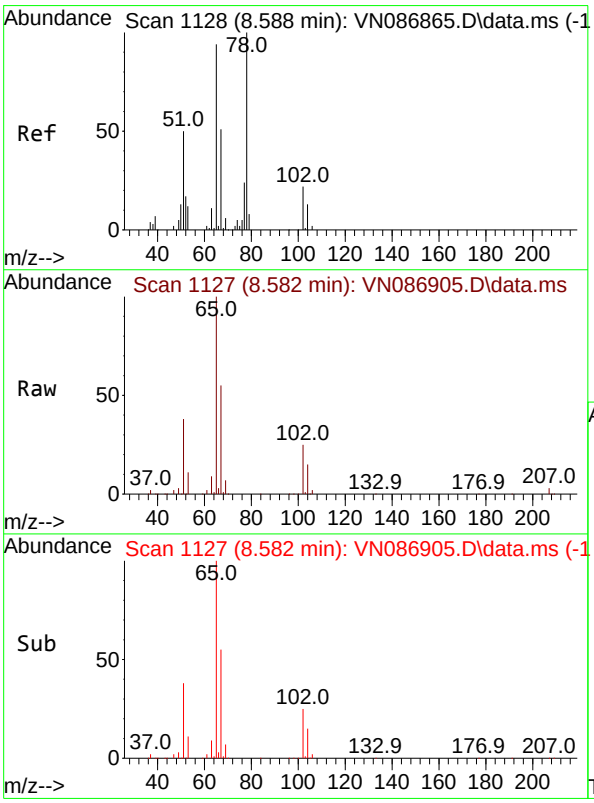
#20
Methylene Chloride
Concen: 4.397 ug/l
RT: 5.294 min Scan# 5
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Tgt Ion: 84 Resp: 25077

Ion	Ratio	Lower	Upper
84	100		
49	96.6	90.5	135.7
51	31.4	28.5	42.7
86	61.0	48.1	72.1

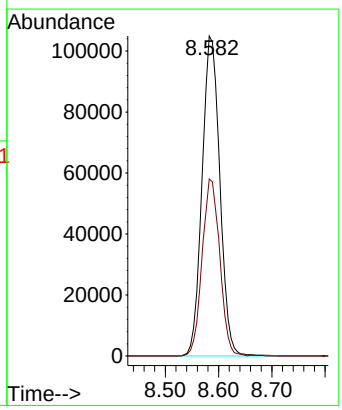


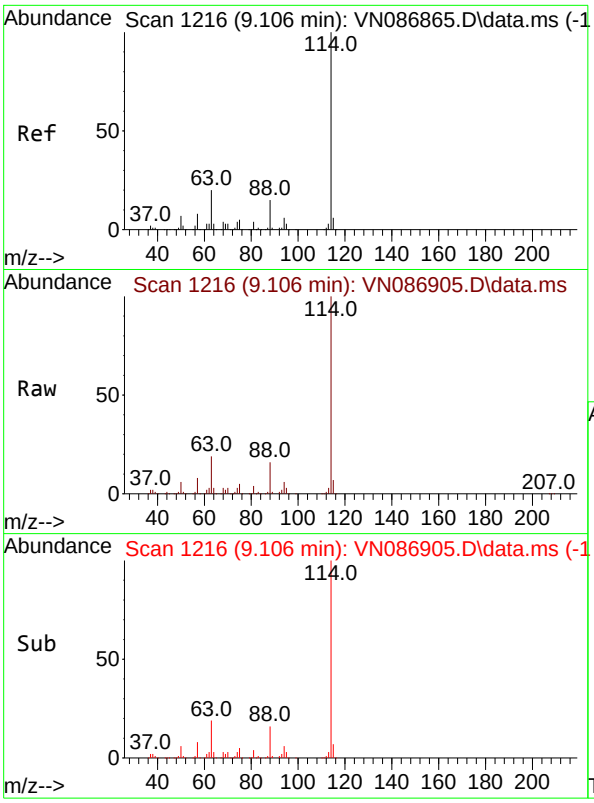


#33
1,2-Dichloroethane-d4
Concen: 42.376 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Tgt Ion: 65 Resp: 243428

Ion	Ratio	Lower	Upper
65	100		
67	54.8	0.0	105.6



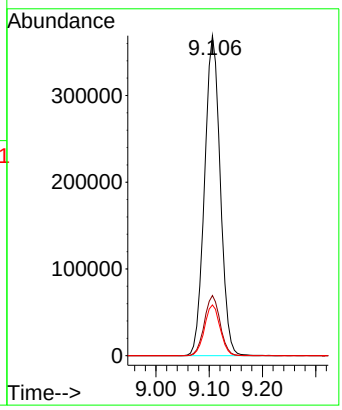


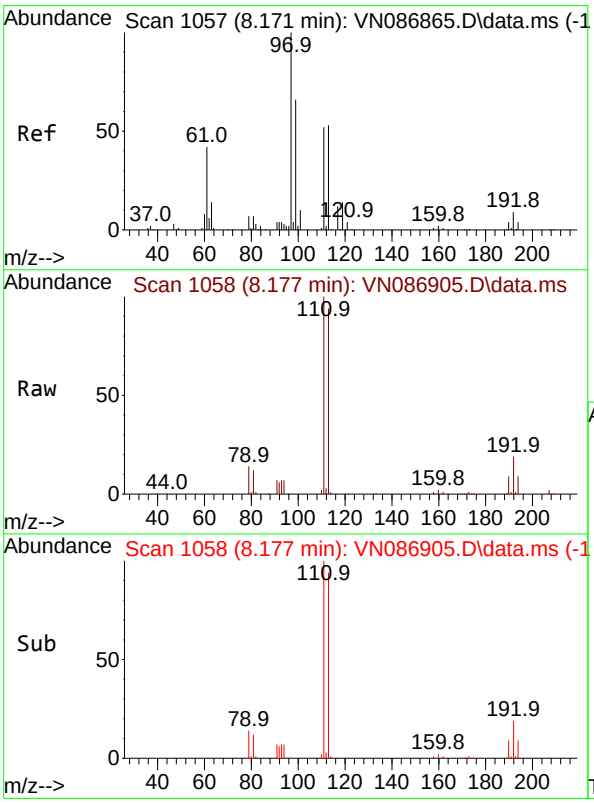
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Tgt Ion:114 Resp: 754017

Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	39.6
88	15.9	0.0	30.2

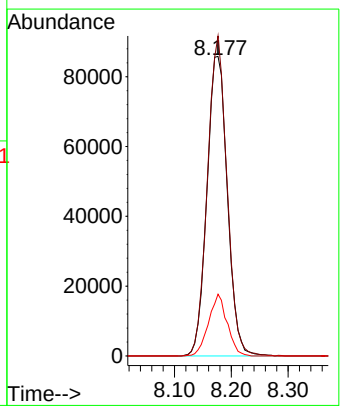


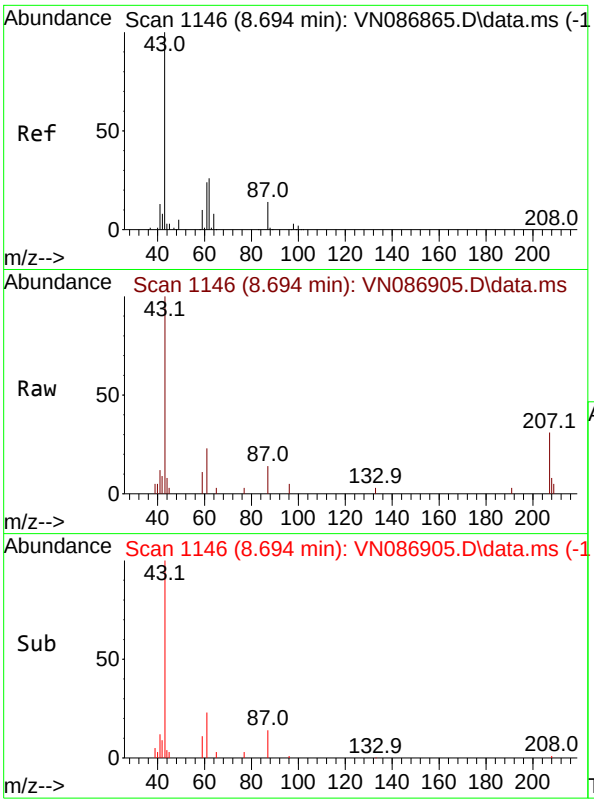


#35
Dibromofluoromethane
Concen: 48.031 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Tgt Ion:113 Resp: 214624

Ion	Ratio	Lower	Upper
113	100		
111	102.0	84.2	126.2
192	18.8	14.2	21.4



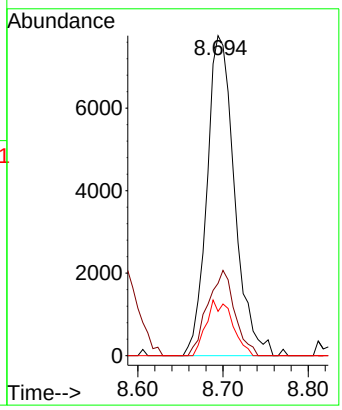


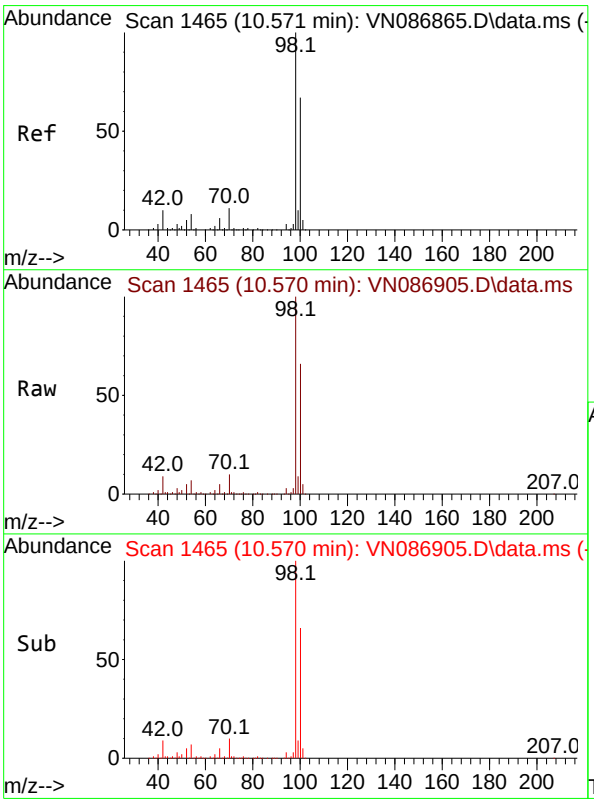
#43
Isopropyl Acetate
Concen: 1.281 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Tgt Ion: 43 Resp: 17428

Ion	Ratio	Lower	Upper
43	100		
61	26.2	22.1	33.1
87	16.4	11.8	17.6

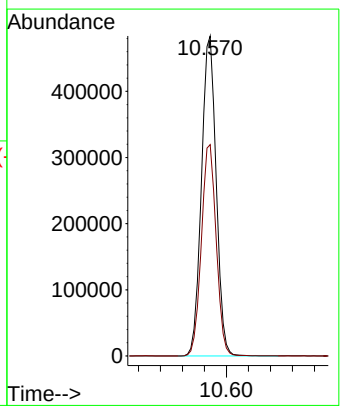


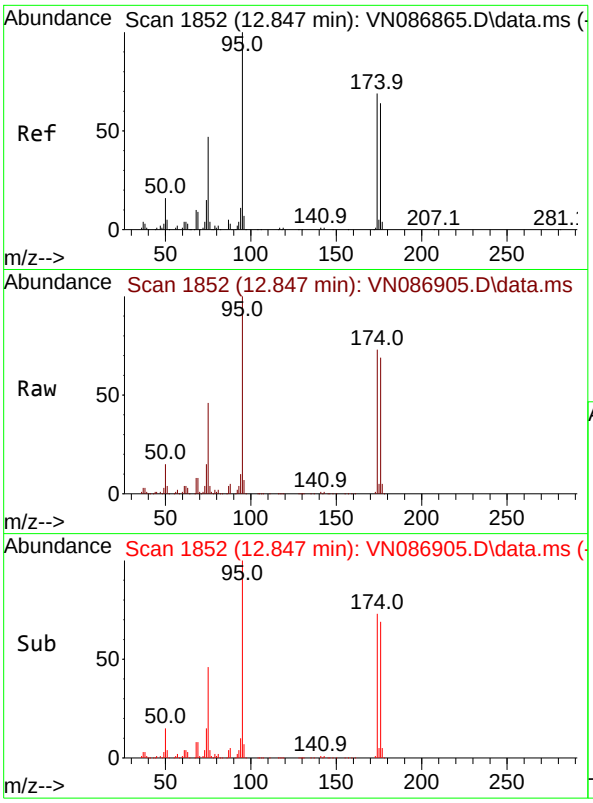


#50
Toluene-d8
Concen: 50.747 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Tgt Ion: 98 Resp: 897684

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.4	80.0



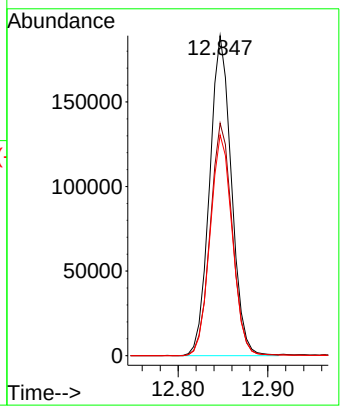


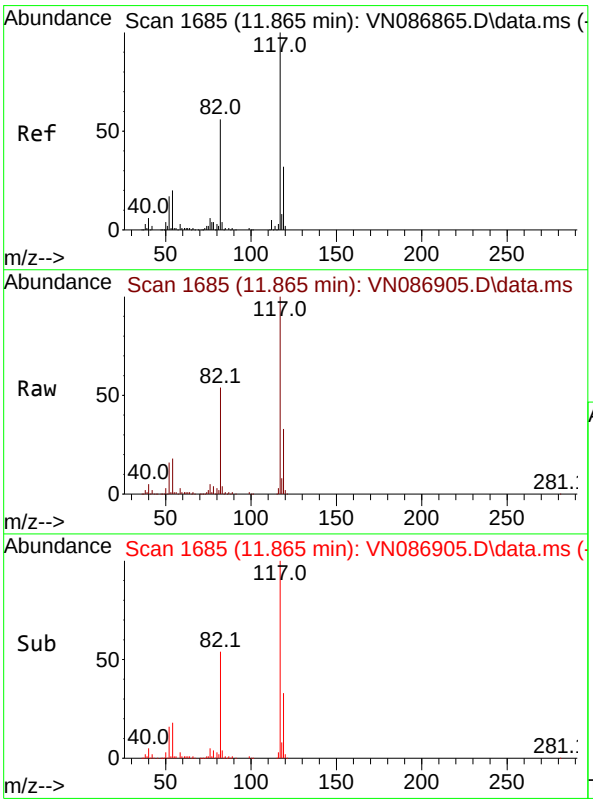
#62
4-Bromofluorobenzene
Concen: 48.676 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Tgt Ion: 95 Resp: 319909

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	141.8
176	70.3	0.0	132.6

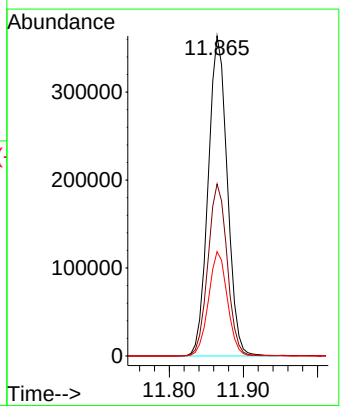


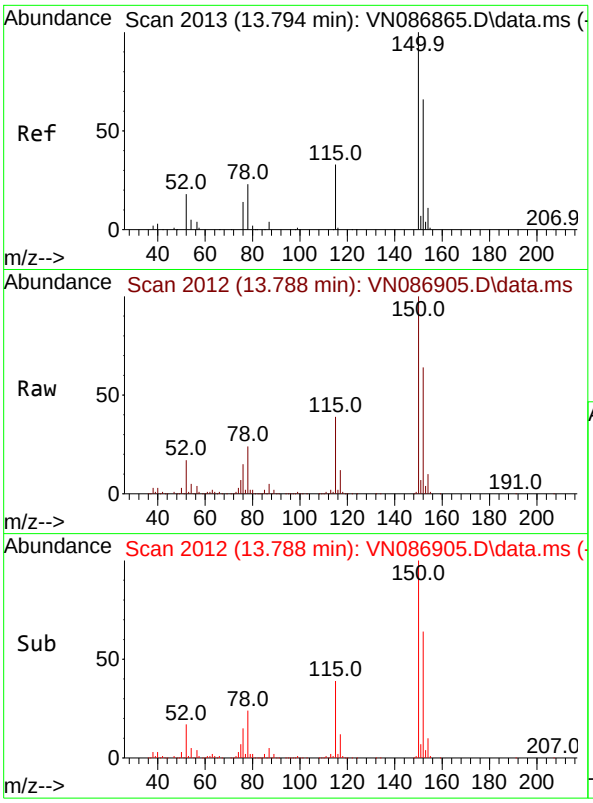


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Tgt Ion:117 Resp: 651717

Ion	Ratio	Lower	Upper
117	100		
82	53.7	44.6	67.0
119	32.6	25.5	38.3



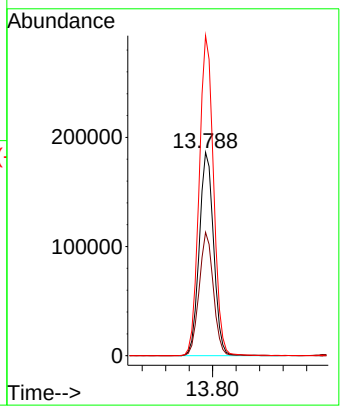


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Tgt Ion:152 Resp: 315202

Ion	Ratio	Lower	Upper
152	100		
115	60.2	30.1	90.5
150	158.0	0.0	345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086906.D
Acq On : 09 Jun 2025 15:30
Operator : JC\MD
Sample : Q2198-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Quant Time: Jun 10 03:34:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

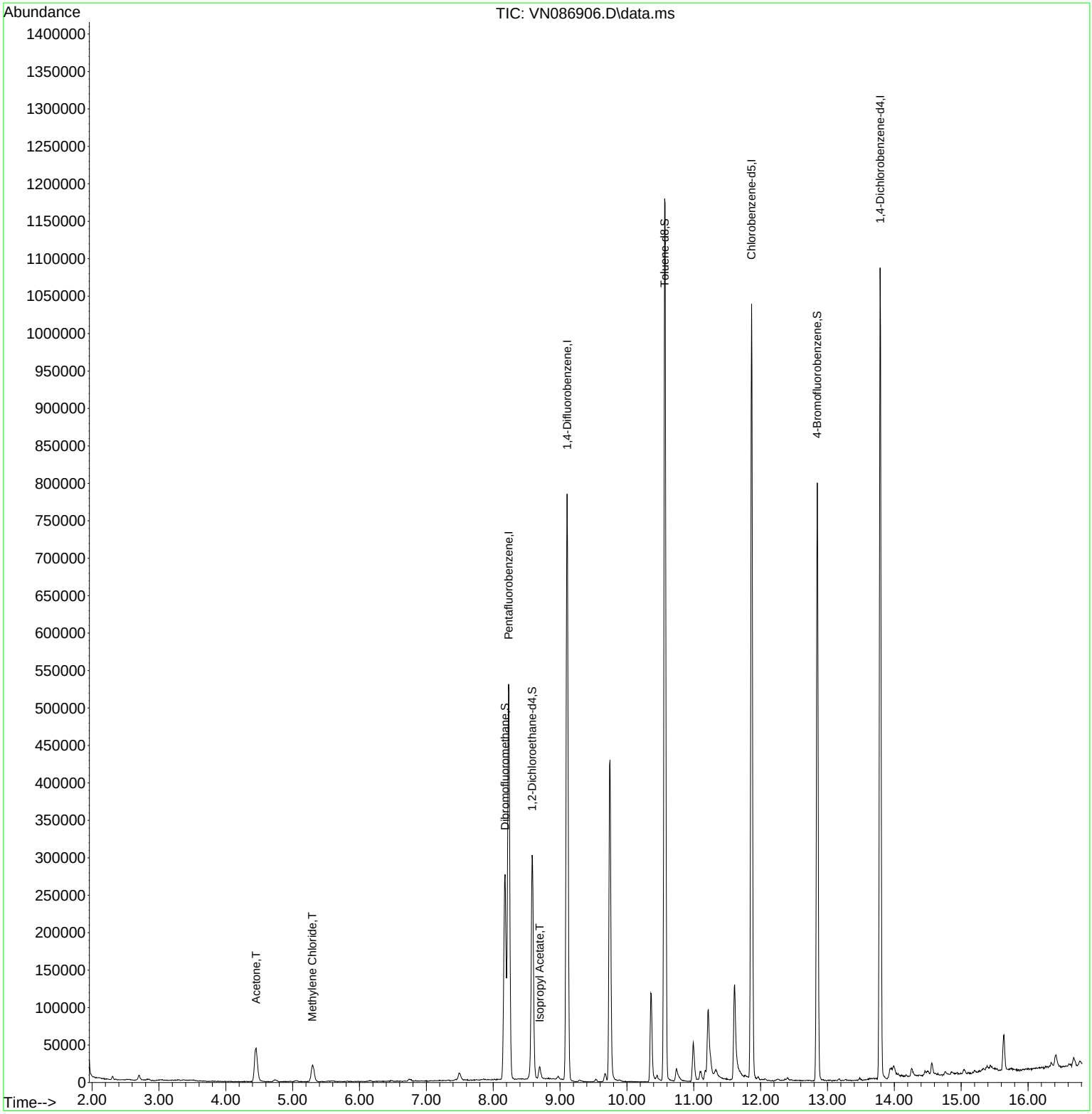
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	419597	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	749093	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	650156	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	318394	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	244735	43.563	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 87.120%			
35) Dibromofluoromethane	8.177	113	214980	48.427	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.860%			
50) Toluene-d8	10.565	98	894484	50.898	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.800%			
62) 4-Bromofluorobenzene	12.847	95	318978	48.854	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.700%			
Target Compounds						Qvalue
16) Acetone	4.453	43	90615	30.416	ug/l	100
20) Methylene Chloride	5.294	84	20133	3.610	ug/l #	89
43) Isopropyl Acetate	8.694	43	18250	1.350	ug/l	94

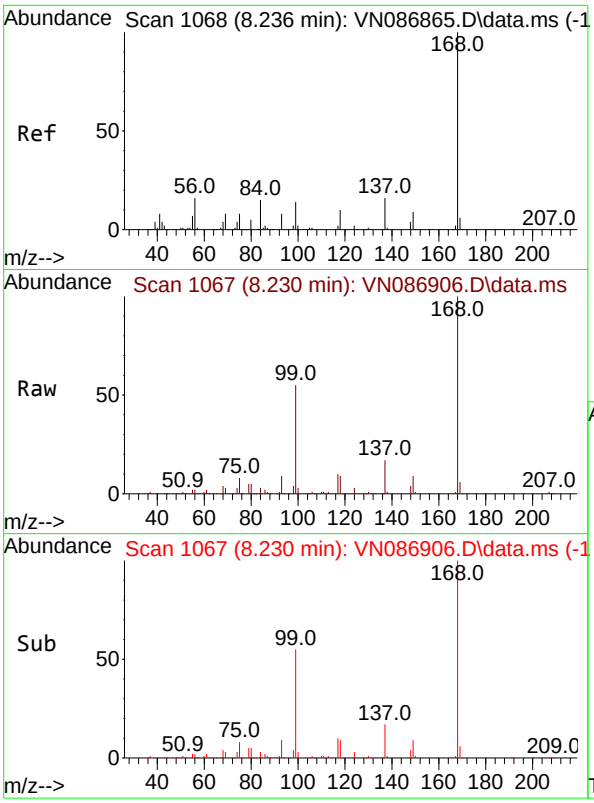
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086906.D
Acq On : 09 Jun 2025 15:30
Operator : JC\MD
Sample : Q2198-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Quant Time: Jun 10 03:34:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



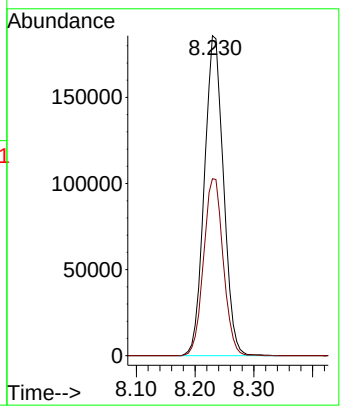


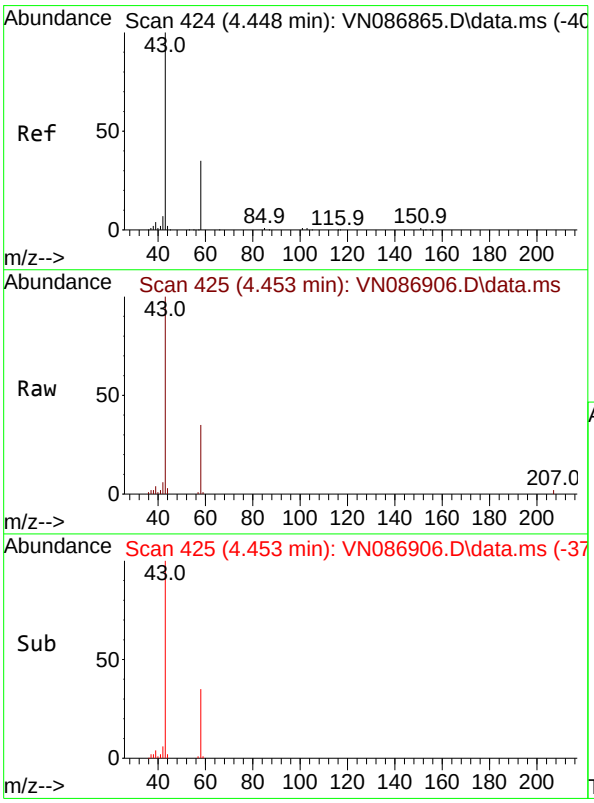
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Tgt Ion:168 Resp: 419597

Ion	Ratio	Lower	Upper
168	100		
99	55.3	49.1	73.7

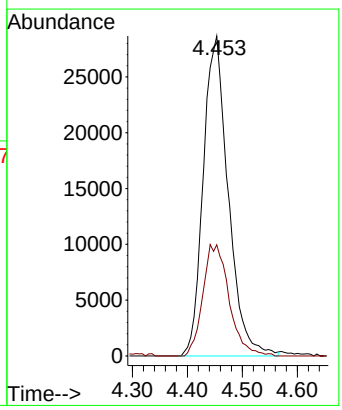


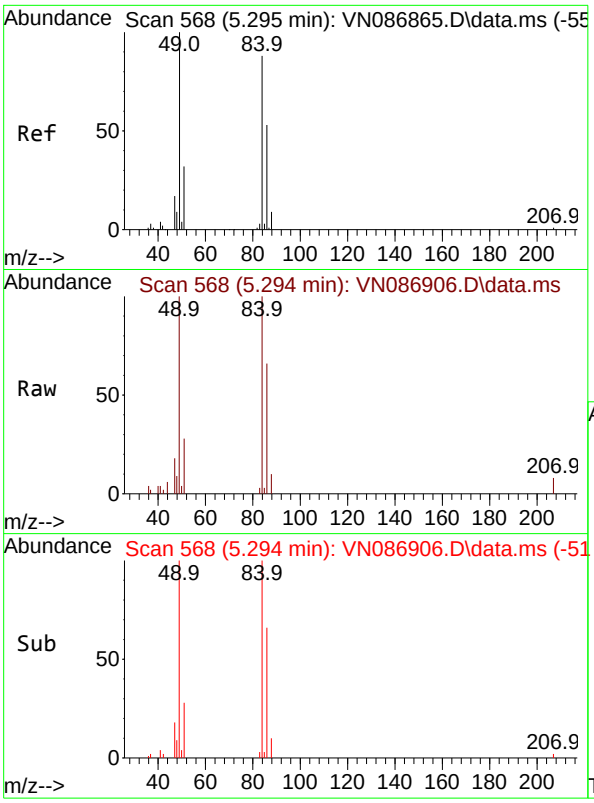


#16
Acetone
Concen: 30.416 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.006 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Tgt Ion: 43 Resp: 90615

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.0	42.0



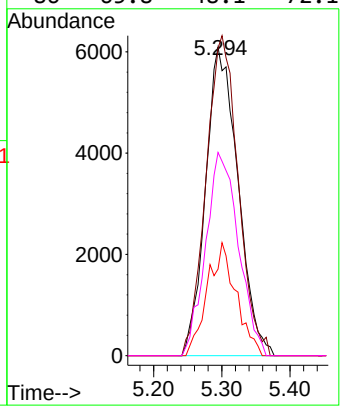


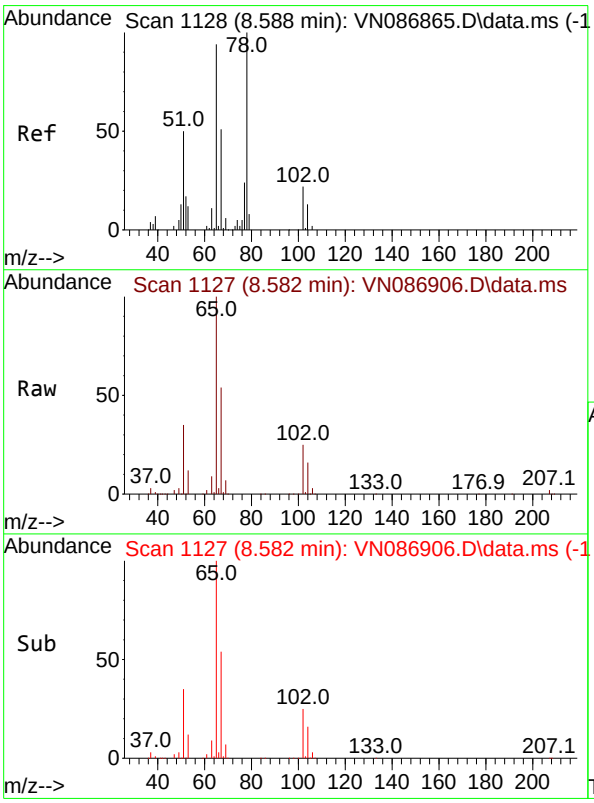
#20
Methylene Chloride
Concen: 3.610 ug/l
RT: 5.294 min Scan# 5
Delta R.T. -0.000 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Tgt Ion: 84 Resp: 20133

Ion	Ratio	Lower	Upper
84	100		
49	99.6	90.5	135.7
51	28.1	28.5	42.7#
86	65.8	48.1	72.1

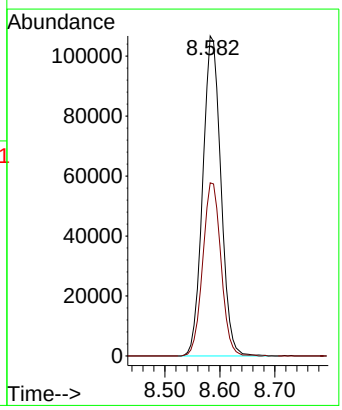


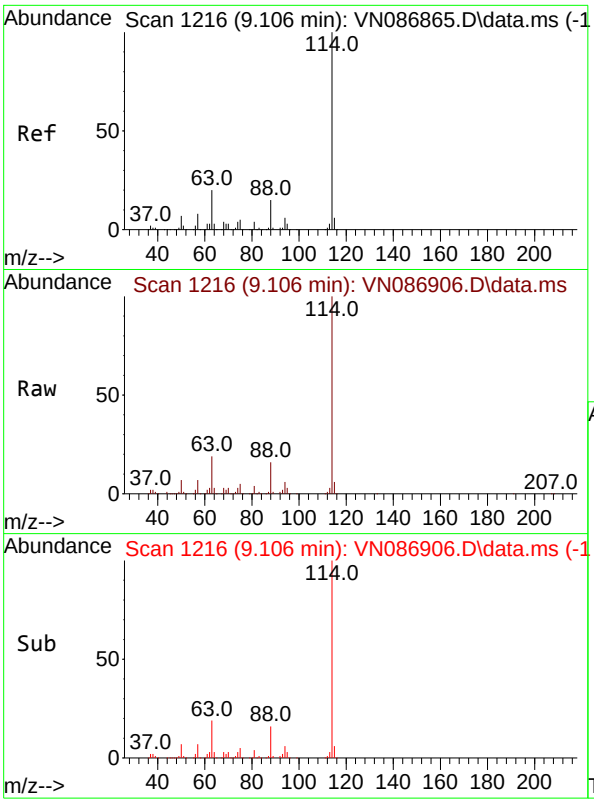


#33
1,2-Dichloroethane-d4
Concen: 43.563 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Tgt Ion: 65 Resp: 244735

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.6



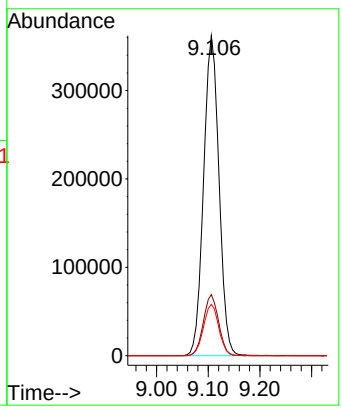


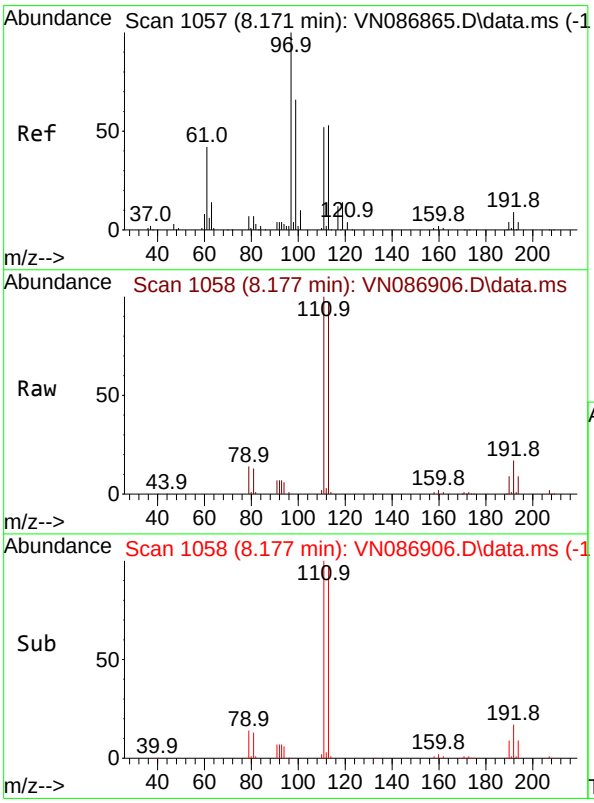
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Tgt Ion:114 Resp: 749093

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	39.6
88	16.0	0.0	30.2

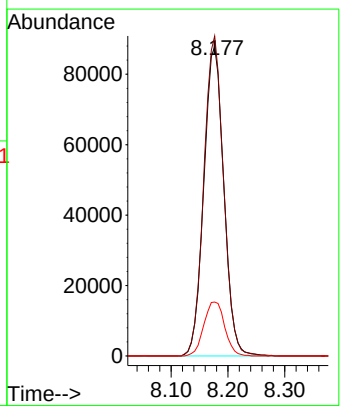


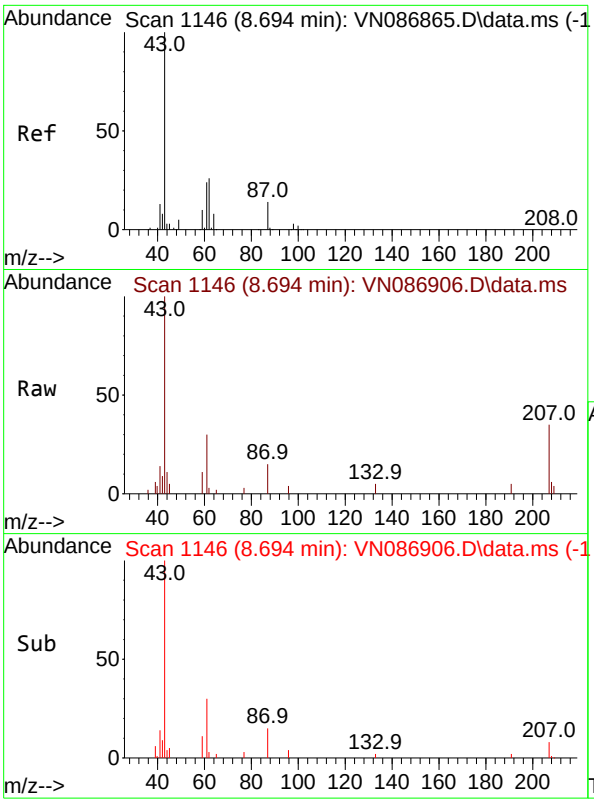


#35
Dibromofluoromethane
Concen: 48.427 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Tgt Ion:113 Resp: 214980

Ion	Ratio	Lower	Upper
113	100		
111	101.7	84.2	126.2
192	18.2	14.2	21.4



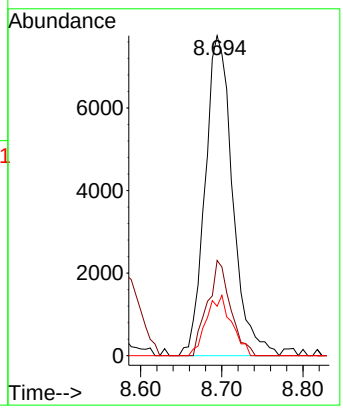


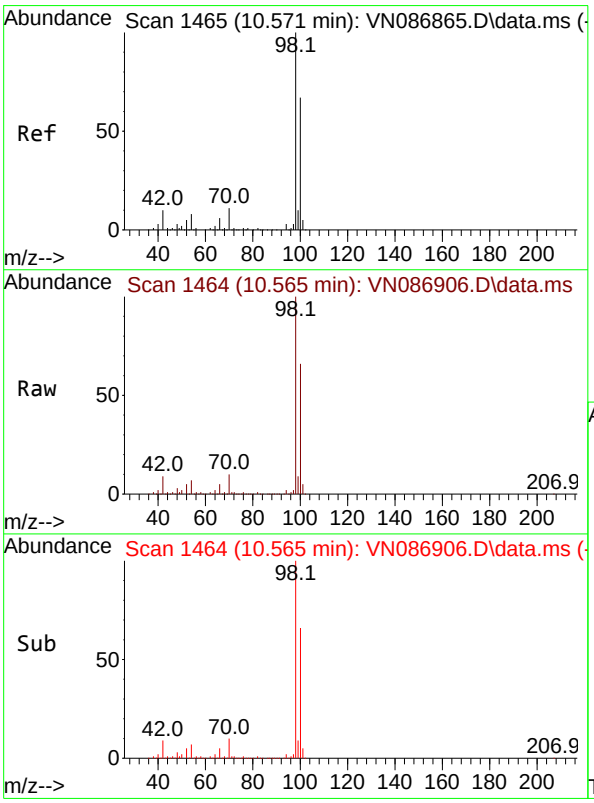
#43
Isopropyl Acetate
Concen: 1.350 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Tgt Ion: 43 Resp: 18250

Ion	Ratio	Lower	Upper
43	100		
61	24.9	22.1	33.1
87	17.2	11.8	17.6

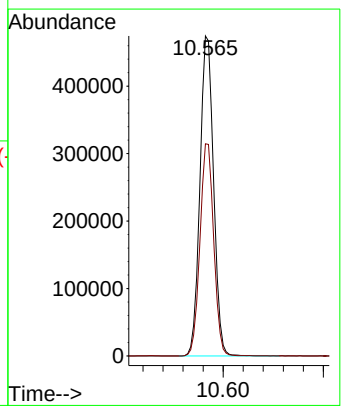


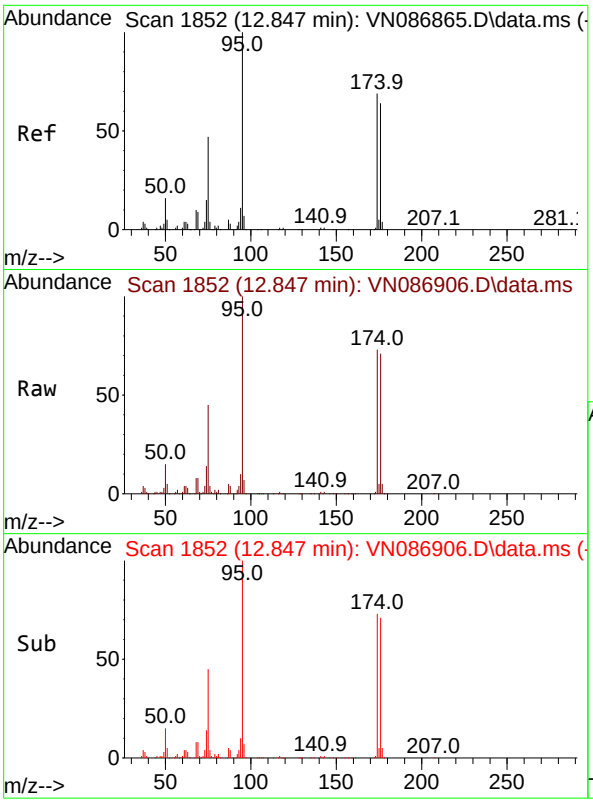


#50
Toluene-d8
Concen: 50.898 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Tgt Ion: 98 Resp: 894484

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.4	80.0



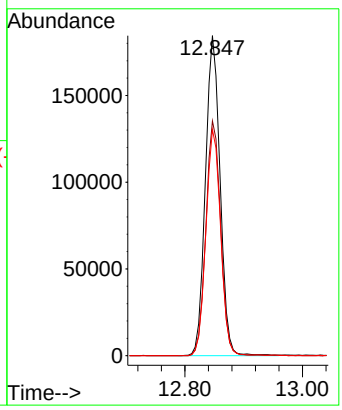


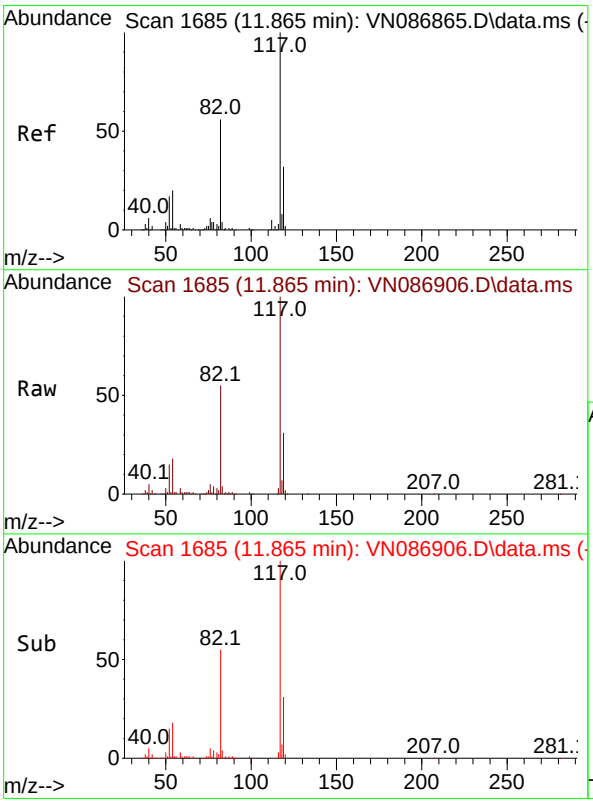
#62
4-Bromofluorobenzene
Concen: 48.854 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Tgt Ion: 95 Resp: 318978

Ion	Ratio	Lower	Upper
95	100		
174	73.8	0.0	141.8
176	71.0	0.0	132.6

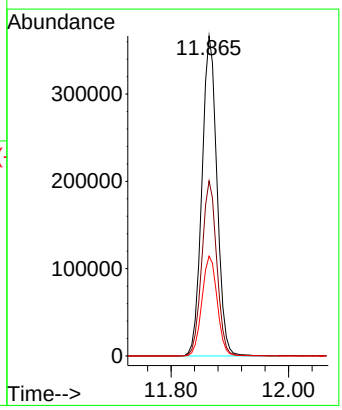


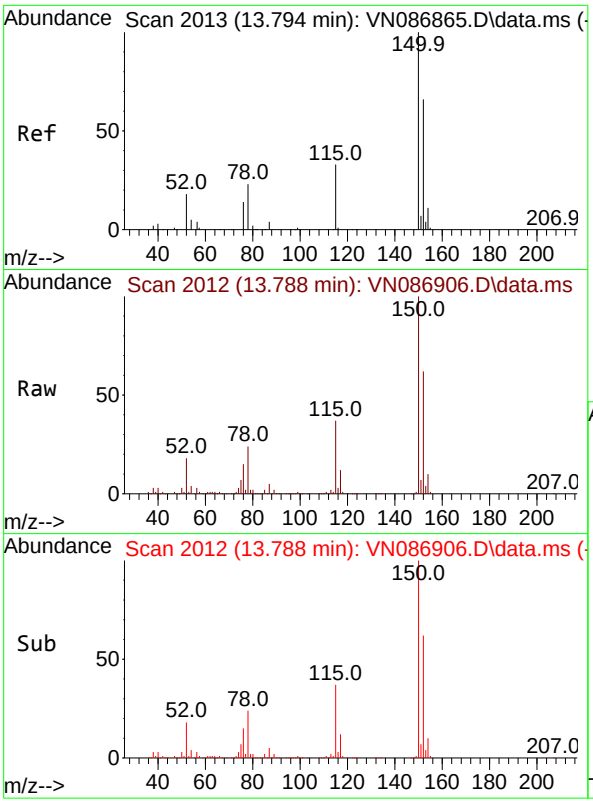


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Tgt Ion:117 Resp: 650156

Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.6	67.0
119	31.2	25.5	38.3



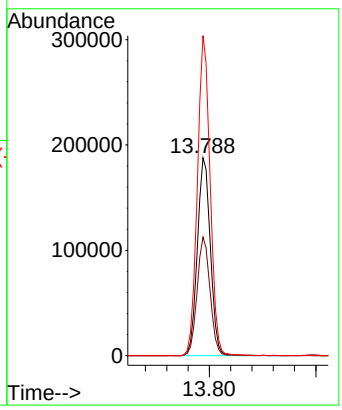


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Tgt Ion:152 Resp: 318394

Ion	Ratio	Lower	Upper
152	100		
115	59.8	30.1	90.5
150	158.4	0.0	345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086890.D
Acq On : 09 Jun 2025 09:33
Operator : JC\MD
Sample : VN0609WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBL01

Quant Time: Jun 10 03:28:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

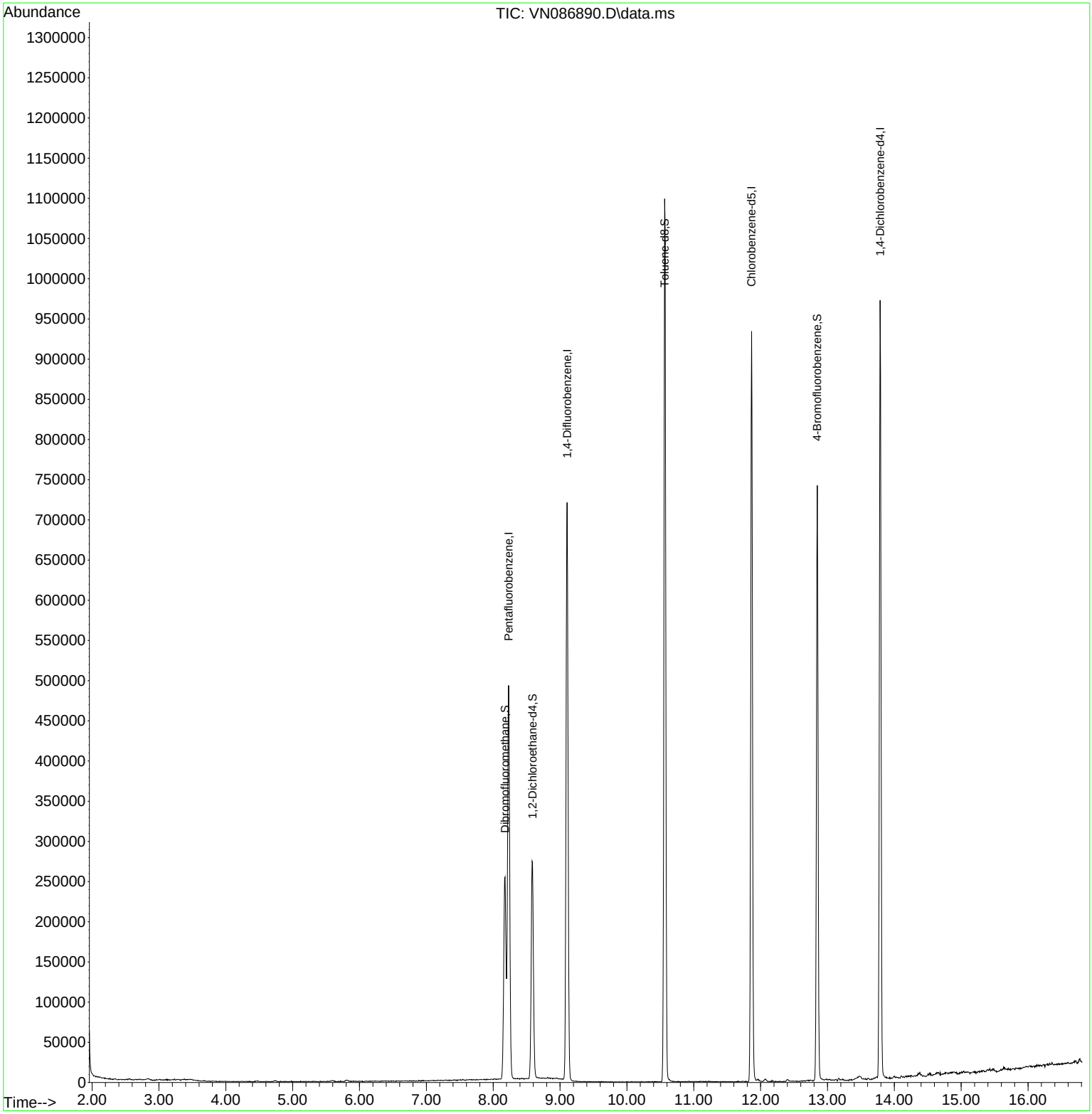
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	390256	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	684606	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	591728	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	288224	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	223703	42.813	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 85.620%			
35) Dibromofluoromethane	8.177	113	194994	48.062	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.120%			
50) Toluene-d8	10.565	98	814952	50.741	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.480%			
62) 4-Bromofluorobenzene	12.847	95	291875	48.913	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.820%			
Target Compounds						Qvalue

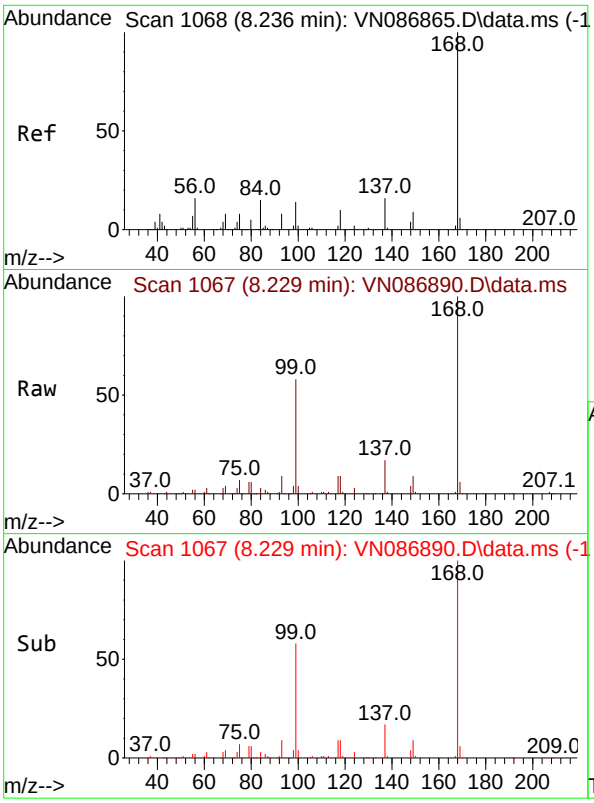
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086890.D
Acq On : 09 Jun 2025 09:33
Operator : JC\MD
Sample : VN0609WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBL01

Quant Time: Jun 10 03:28:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



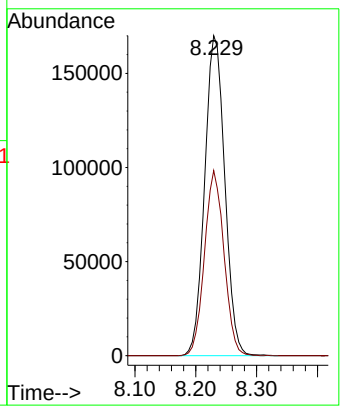


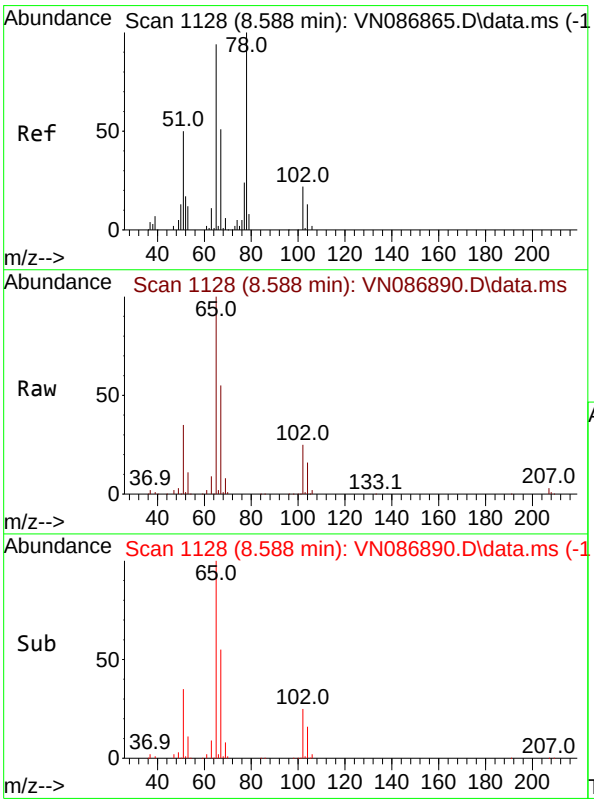
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBL01

Tgt Ion:168 Resp: 390256

Ion	Ratio	Lower	Upper
168	100		
99	57.8	49.1	73.7

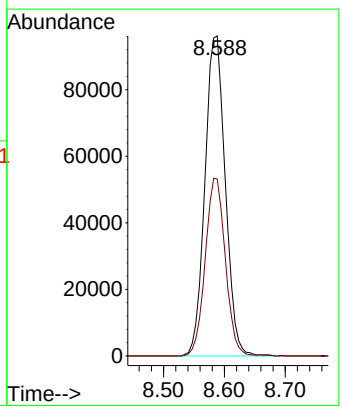


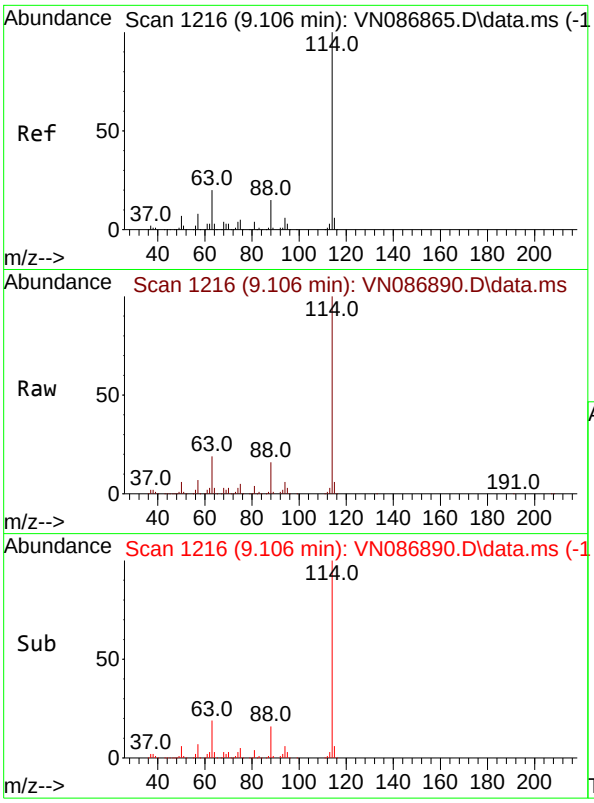


#33
1,2-Dichloroethane-d4
Concen: 42.813 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Tgt Ion: 65 Resp: 223703

Ion	Ratio	Lower	Upper
65	100		
67	54.9	0.0	105.6



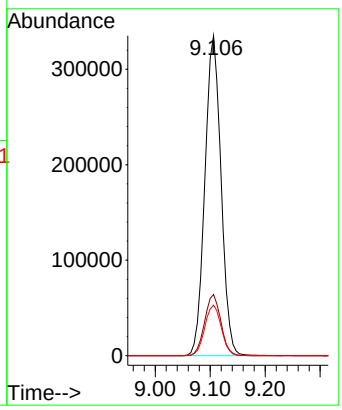


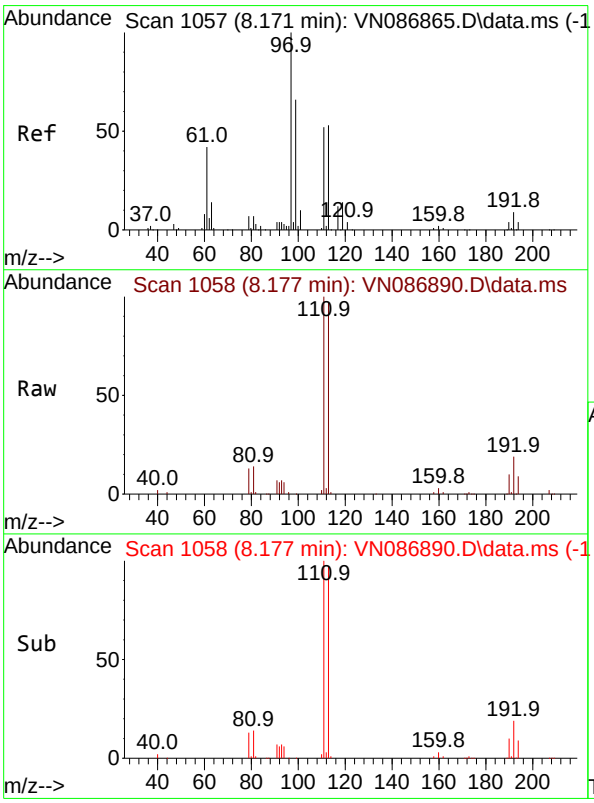
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBL01

Tgt Ion:114 Resp: 684606

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	39.6
88	15.8	0.0	30.2

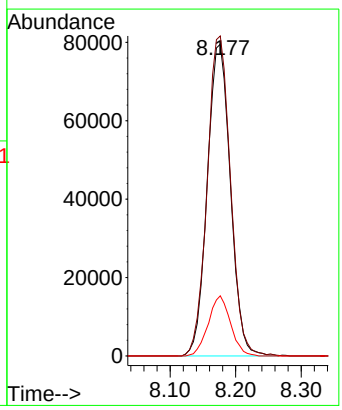


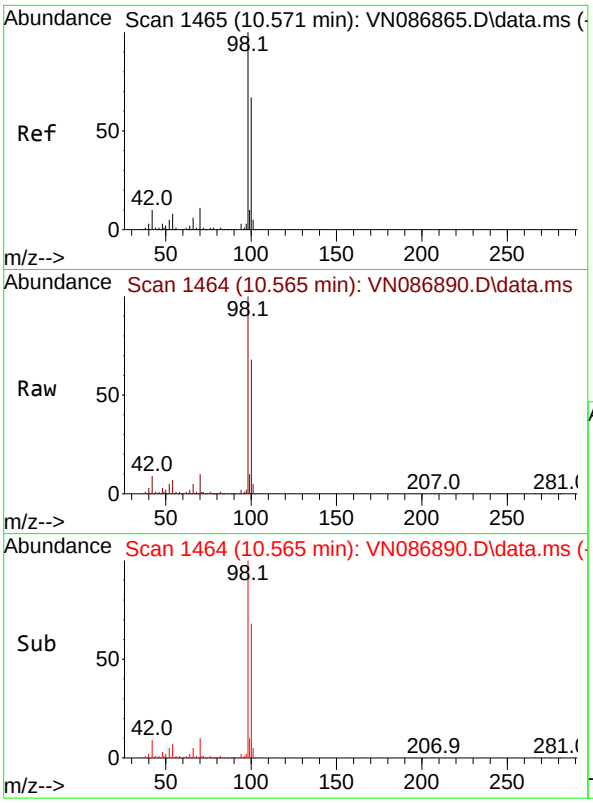


#35
Dibromofluoromethane
Concen: 48.062 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Tgt Ion:113 Resp: 194994

Ion	Ratio	Lower	Upper
113	100		
111	103.2	84.2	126.2
192	18.5	14.2	21.4



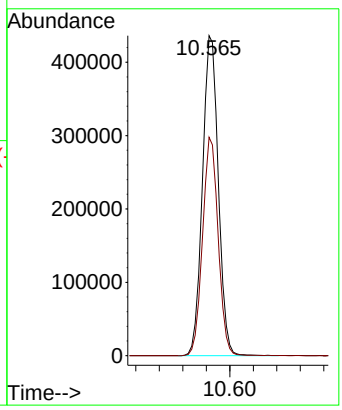


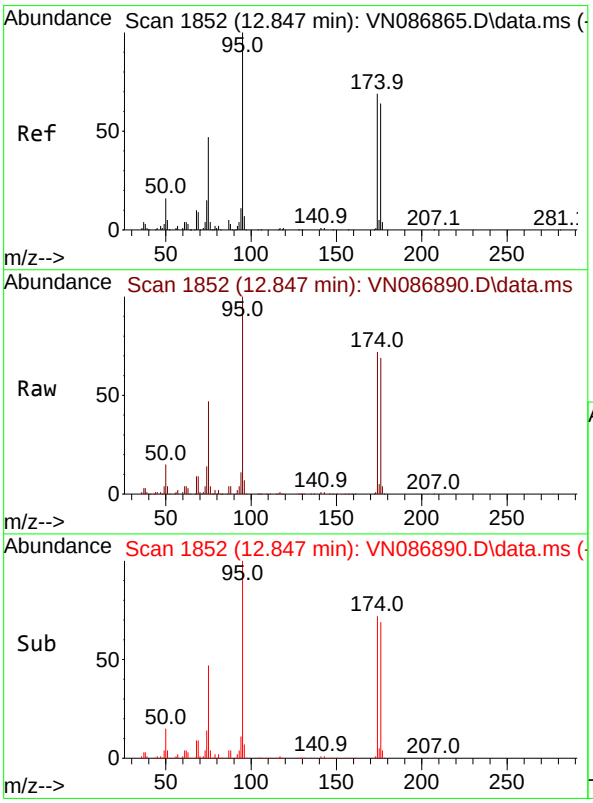
#50
Toluene-d8
Concen: 50.741 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBL01

Tgt Ion: 98 Resp: 814952

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.4	80.0

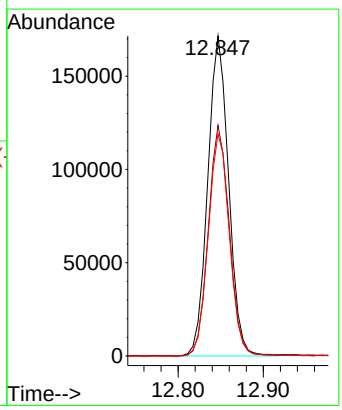


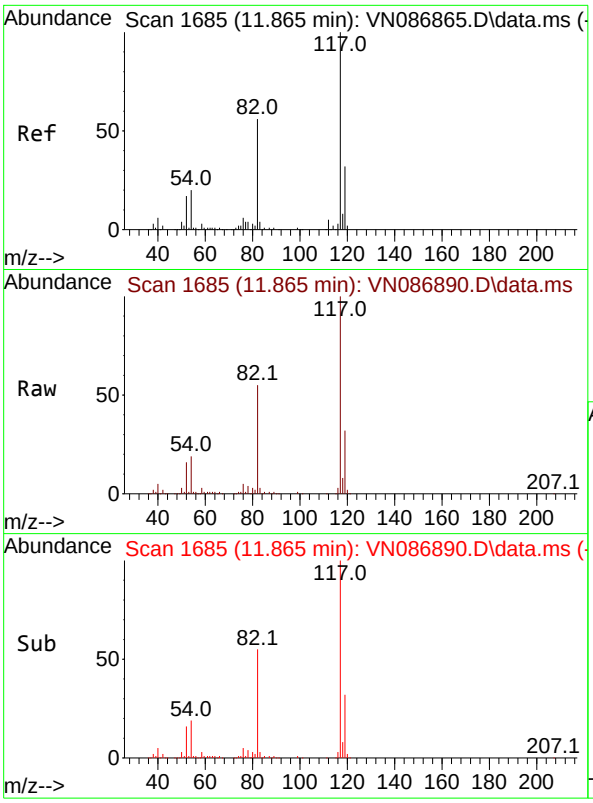


#62
4-Bromofluorobenzene
Concen: 48.913 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Tgt Ion: 95 Resp: 291875

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	141.8
176	70.2	0.0	132.6



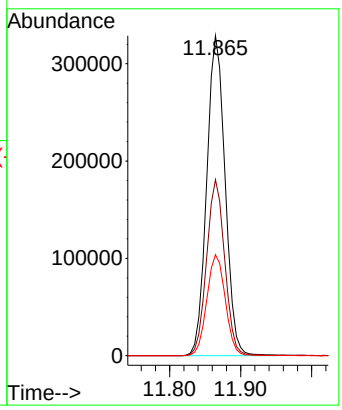


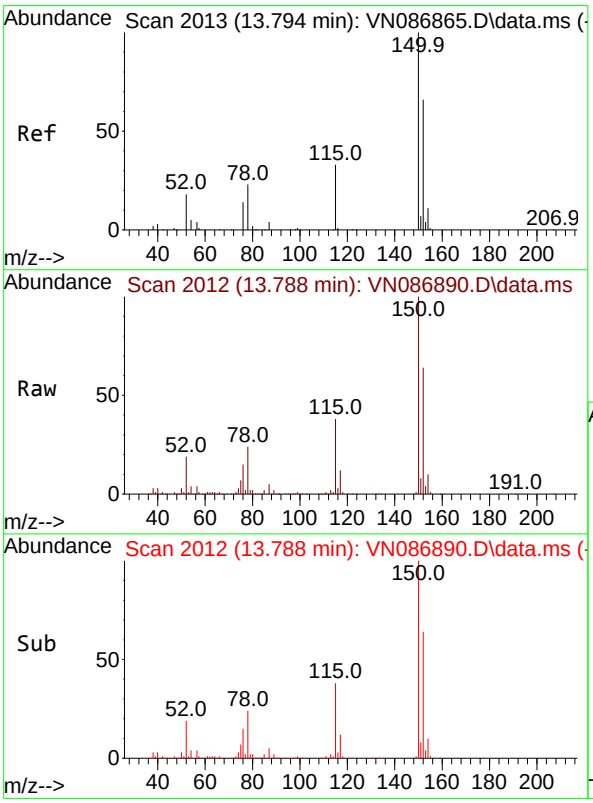
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBL01

Tgt Ion:117 Resp: 591728

Ion	Ratio	Lower	Upper
117	100		
82	55.0	44.6	67.0
119	31.6	25.5	38.3

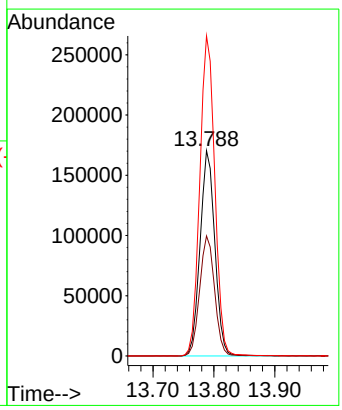




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Tgt Ion:152 Resp: 288224

Ion	Ratio	Lower	Upper
152	100		
115	59.1	30.1	90.5
150	158.0	0.0	345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086893.D
Acq On : 09 Jun 2025 10:50
Operator : JC\MD
Sample : VN0609WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 09 13:27:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	266986	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	481053	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	422488	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	202169	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	202389	56.618	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.240%			
35) Dibromofluoromethane	8.177	113	166951	58.562	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 117.120%			
50) Toluene-d8	10.565	98	622867	55.191	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 110.380%			
62) 4-Bromofluorobenzene	12.847	95	233615	55.716	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	51523	19.355	ug/l	100
3) Chloromethane	2.395	50	57302	16.670	ug/l	98
4) Vinyl Chloride	2.554	62	64913	18.306	ug/l	96
5) Bromomethane	2.995	94	41012	20.668	ug/l	100
6) Chloroethane	3.159	64	44644	19.491	ug/l	99
7) Trichlorofluoromethane	3.530	101	89135	19.239	ug/l	99
8) Diethyl Ether	3.983	74	46365	22.969	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.400	101	55767	19.159	ug/l	96
10) Methyl Iodide	4.612	142	67793	17.967	ug/l	95
11) Tert butyl alcohol	5.536	59	102670	105.851	ug/l	98
12) 1,1-Dichloroethene	4.365	96	59847	20.139	ug/l	93
13) Acrolein	4.200	56	29042	94.593	ug/l	99
14) Allyl chloride	5.048	41	88856	18.030	ug/l	97
15) Acrylonitrile	5.736	53	249150	109.898	ug/l	99
16) Acetone	4.448	43	186059	98.150	ug/l	99
17) Carbon Disulfide	4.736	76	147605	17.957	ug/l	99
18) Methyl Acetate	5.042	43	119428	21.619	ug/l	96
19) Methyl tert-butyl Ether	5.818	73	246789	22.937	ug/l	99
20) Methylene Chloride	5.295	84	72770	20.504	ug/l	95
21) trans-1,2-Dichloroethene	5.806	96	64982	19.655	ug/l	93
22) Diisopropyl ether	6.683	45	213617	20.563	ug/l	97
23) Vinyl Acetate	6.618	43	935448	106.579	ug/l	97
24) 1,1-Dichloroethane	6.583	63	118296	19.787	ug/l	98
25) 2-Butanone	7.489	43	315151	102.277	ug/l	98
26) 2,2-Dichloropropane	7.500	77	97539	20.974	ug/l	96
27) cis-1,2-Dichloroethene	7.500	96	83955	21.233	ug/l	96
28) Bromochloromethane	7.824	49	63228	21.510	ug/l	91
29) Tetrahydrofuran	7.847	42	210156	104.697	ug/l	94
30) Chloroform	7.977	83	119528	20.020	ug/l	100
31) Cyclohexane	8.265	56	99106	17.094	ug/l	89
32) 1,1,1-Trichloroethane	8.177	97	98672	19.432	ug/l	93
36) 1,1-Dichloropropene	8.377	75	82550	19.433	ug/l	99
37) Ethyl Acetate	7.571	43	118150	21.848	ug/l	98
38) Carbon Tetrachloride	8.365	117	80592	19.324	ug/l	96
39) Methylcyclohexane	9.606	83	99387	17.077	ug/l	96
40) Benzene	8.612	78	281242	20.246	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086893.D
Acq On : 09 Jun 2025 10:50
Operator : JC\MD
Sample : VN0609WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 09 13:27:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.783	41	63106	20.779	ug/l		93
42) 1,2-Dichloroethane	8.677	62	89967	21.353	ug/l		98
43) Isopropyl Acetate	8.694	43	184375	21.243	ug/l		96
44) Trichloroethene	9.353	130	68709	20.860	ug/l		94
45) 1,2-Dichloropropane	9.624	63	70359	20.819	ug/l		97
46) Dibromomethane	9.712	93	50518	22.505	ug/l		97
47) Bromodichloromethane	9.888	83	97765	21.168	ug/l		94
48) Methyl methacrylate	9.682	41	82557	20.666	ug/l		94
49) 1,4-Dioxane	9.700	88	34752	478.183	ug/l	#	96
51) 4-Methyl-2-Pentanone	10.447	43	573654	109.788	ug/l		97
52) Toluene	10.629	92	186254	21.940	ug/l		100
53) t-1,3-Dichloropropene	10.841	75	116115	22.484	ug/l		95
54) cis-1,3-Dichloropropene	10.312	75	121569	22.000	ug/l		96
55) 1,1,2-Trichloroethane	11.018	97	74365	22.766	ug/l		95
56) Ethyl methacrylate	10.882	69	125687	24.158	ug/l		93
57) 1,3-Dichloropropane	11.165	76	125890	22.217	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	349023	112.472	ug/l		97
59) 2-Hexanone	11.200	43	368271	109.420	ug/l		91
60) Dibromochloromethane	11.359	129	77533	22.781	ug/l		100
61) 1,2-Dibromoethane	11.471	107	76919	22.974	ug/l		98
64) Tetrachloroethene	11.106	164	52176	19.514	ug/l		97
65) Chlorobenzene	11.888	112	195119	20.940	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	65205	21.769	ug/l		98
67) Ethyl Benzene	11.965	91	317590	19.787	ug/l		99
68) m/p-Xylenes	12.071	106	251284	40.899	ug/l		97
69) o-Xylene	12.394	106	122737	20.858	ug/l		99
70) Styrene	12.412	104	213765	21.229	ug/l		99
71) Bromoform	12.582	173	52554	23.680	ug/l	#	99
73) Isopropylbenzene	12.694	105	293400	19.921	ug/l		99
74) N-amyl acetate	12.523	43	117821	22.893	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.935	83	116789	23.407	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	82055m	17.075	ug/l		
77) Bromobenzene	12.976	156	76143	22.543	ug/l		100
78) n-propylbenzene	13.035	91	346865	19.379	ug/l		99
79) 2-Chlorotoluene	13.123	91	216311	20.152	ug/l		96
80) 1,3,5-Trimethylbenzene	13.171	105	244158	20.079	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	51065	24.461	ug/l		90
82) 4-Chlorotoluene	13.218	91	219687	20.227	ug/l		98
83) tert-Butylbenzene	13.435	119	221806	19.927	ug/l		97
84) 1,2,4-Trimethylbenzene	13.482	105	248941	20.416	ug/l		100
85) sec-Butylbenzene	13.612	105	303760	18.792	ug/l		99
86) p-Isopropyltoluene	13.729	119	259754	19.440	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	140762	21.181	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	143075	21.117	ug/l		100
89) n-Butylbenzene	14.053	91	235600	18.204	ug/l		99
90) Hexachloroethane	14.329	117	42184	18.625	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	136855	21.435	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	26513	22.219	ug/l		90
93) 1,2,4-Trichlorobenzene	15.388	180	79356	19.464	ug/l		99
94) Hexachlorobutadiene	15.494	225	27017	17.787	ug/l		99
95) Naphthalene	15.635	128	327594	21.587	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	77458	19.122	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086893.D
Acq On : 09 Jun 2025 10:50
Operator : JC\MD
Sample : VN0609WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 09 13:27:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025

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

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

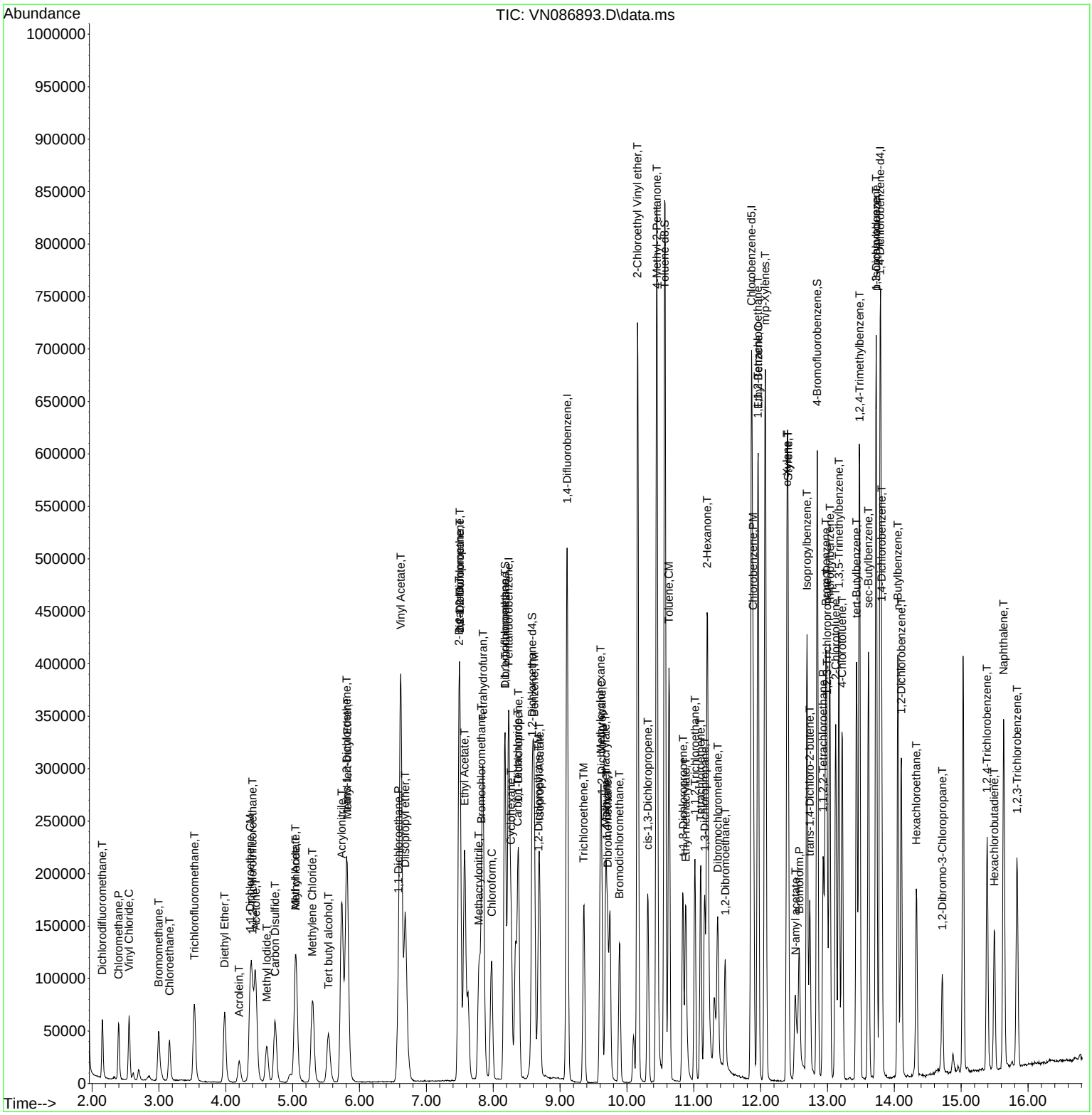
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086893.D
Acq On : 09 Jun 2025 10:50
Operator : JC\MD
Sample : VN0609WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 09 13:27:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086902.D
Acq On : 09 Jun 2025 14:04
Operator : JC\MD
Sample : VN0609WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 03:32:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	261604	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	462540	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	392287	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	182953	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	155677	44.446	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.900%			
35) Dibromofluoromethane	8.177	113	138371	50.480	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.960%			
50) Toluene-d8	10.565	98	523398	48.233	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.460%			
62) 4-Bromofluorobenzene	12.847	95	192426	47.729	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	49965	19.156	ug/l	97
3) Chloromethane	2.401	50	52285	15.523	ug/l	97
4) Vinyl Chloride	2.554	62	63164	18.179	ug/l	98
5) Bromomethane	3.001	94	33037	16.991	ug/l	97
6) Chloroethane	3.159	64	40895	18.222	ug/l	96
7) Trichlorofluoromethane	3.536	101	86708	19.101	ug/l	94
8) Diethyl Ether	3.983	74	39083	19.760	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.406	101	51965	18.220	ug/l	97
10) Methyl Iodide	4.618	142	46201	12.496	ug/l	99
11) Tert butyl alcohol	5.536	59	79160	83.292	ug/l	100
12) 1,1-Dichloroethene	4.365	96	56740	19.487	ug/l	93
13) Acrolein	4.206	56	25830	85.862	ug/l	96
14) Allyl chloride	5.048	41	79237	16.409	ug/l	95
15) Acrylonitrile	5.736	53	194819	87.701	ug/l	100
16) Acetone	4.448	43	142818	76.889	ug/l	98
17) Carbon Disulfide	4.742	76	140783	17.480	ug/l	98
18) Methyl Acetate	5.048	43	91360	16.878	ug/l	96
19) Methyl tert-butyl Ether	5.818	73	202158	19.175	ug/l	99
20) Methylene Chloride	5.300	84	62323	17.922	ug/l	94
21) trans-1,2-Dichloroethene	5.806	96	60645	18.720	ug/l	92
22) Diisopropyl ether	6.683	45	179323	17.617	ug/l	94
23) Vinyl Acetate	6.618	43	758661	88.215	ug/l	97
24) 1,1-Dichloroethane	6.583	63	107933	18.425	ug/l	98
25) 2-Butanone	7.494	43	248457	82.292	ug/l	95
26) 2,2-Dichloropropane	7.500	77	85897	18.851	ug/l	96
27) cis-1,2-Dichloroethene	7.500	96	73368	18.937	ug/l	96
28) Bromochloromethane	7.824	49	47379	16.450	ug/l	87
29) Tetrahydrofuran	7.853	42	163380	83.068	ug/l	93
30) Chloroform	7.977	83	107556	18.386	ug/l	99
31) Cyclohexane	8.271	56	90403	15.914	ug/l	94
32) 1,1,1-Trichloroethane	8.177	97	92483	18.588	ug/l	93
36) 1,1-Dichloropropene	8.377	75	78110	19.123	ug/l	99
37) Ethyl Acetate	7.571	43	93294	17.942	ug/l	98
38) Carbon Tetrachloride	8.371	117	77600	19.351	ug/l	99
39) Methylcyclohexane	9.606	83	91033	16.268	ug/l	96
40) Benzene	8.612	78	254036	19.020	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086902.D
Acq On : 09 Jun 2025 14:04
Operator : JC\MD
Sample : VN0609WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 03:32:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.789	41	52205	17.877	ug/l		95
42) 1,2-Dichloroethane	8.677	62	75987	18.757	ug/l		98
43) Isopropyl Acetate	8.694	43	146007	17.495	ug/l		95
44) Trichloroethene	9.359	130	64635	20.408	ug/l		96
45) 1,2-Dichloropropane	9.624	63	60591	18.646	ug/l		100
46) Dibromomethane	9.712	93	43406	20.111	ug/l		96
47) Bromodichloromethane	9.894	83	85075	19.158	ug/l		100
48) Methyl methacrylate	9.682	41	66751	17.378	ug/l		96
49) 1,4-Dioxane	9.700	88	25844	369.843	ug/l	#	96
51) 4-Methyl-2-Pentanone	10.447	43	448816	89.334	ug/l		96
52) Toluene	10.630	92	161571	19.794	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	98270	19.790	ug/l		95
54) cis-1,3-Dichloropropene	10.318	75	104098	19.593	ug/l		95
55) 1,1,2-Trichloroethane	11.018	97	61721	19.651	ug/l		97
56) Ethyl methacrylate	10.882	69	100979	20.185	ug/l		93
57) 1,3-Dichloropropane	11.165	76	105036	19.278	ug/l		97
58) 2-Chloroethyl Vinyl ether	10.159	63	239383	80.228	ug/l		96
59) 2-Hexanone	11.206	43	279871	86.483	ug/l		91
60) Dibromochloromethane	11.359	129	66878	20.437	ug/l		99
61) 1,2-Dibromoethane	11.471	107	64475	20.028	ug/l		99
64) Tetrachloroethene	11.106	164	47676	19.204	ug/l		96
65) Chlorobenzene	11.894	112	175411	20.274	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	58317	20.968	ug/l		97
67) Ethyl Benzene	11.965	91	290096	19.466	ug/l		99
68) m/p-Xylenes	12.071	106	226281	39.665	ug/l		98
69) o-Xylene	12.394	106	109915	20.117	ug/l		97
70) Styrene	12.412	104	187888	20.096	ug/l		99
71) Bromoform	12.576	173	44372	21.533	ug/l	#	100
73) Isopropylbenzene	12.694	105	266966	20.030	ug/l		99
74) N-amyl acetate	12.524	43	86229	18.514	ug/l	#	90
75) 1,1,2,2-Tetrachloroethane	12.935	83	96951	21.472	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	94554m	21.742	ug/l		
77) Bromobenzene	12.982	156	67800	22.181	ug/l		93
78) n-propylbenzene	13.035	91	314811	19.436	ug/l		99
79) 2-Chlorotoluene	13.123	91	189034	19.460	ug/l		96
80) 1,3,5-Trimethylbenzene	13.171	105	220034	19.996	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	41191	21.803	ug/l		92
82) 4-Chlorotoluene	13.218	91	196983	20.042	ug/l		99
83) tert-Butylbenzene	13.435	119	192556	19.116	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	220449	19.978	ug/l		99
85) sec-Butylbenzene	13.612	105	274677	18.777	ug/l		98
86) p-Isopropyltoluene	13.729	119	231742	19.165	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	124137	20.642	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	126650	20.656	ug/l		100
89) n-Butylbenzene	14.053	91	207489	17.715	ug/l		98
90) Hexachloroethane	14.329	117	39127	19.090	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	121942	21.105	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	21661	20.059	ug/l		92
93) 1,2,4-Trichlorobenzene	15.388	180	70202	19.028	ug/l		100
94) Hexachlorobutadiene	15.500	225	24178	17.589	ug/l		96
95) Naphthalene	15.635	128	379545	27.638	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	65394	17.840	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086902.D
Acq On : 09 Jun 2025 14:04
Operator : JC\MD
Sample : VN0609WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 03:32:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025

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

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

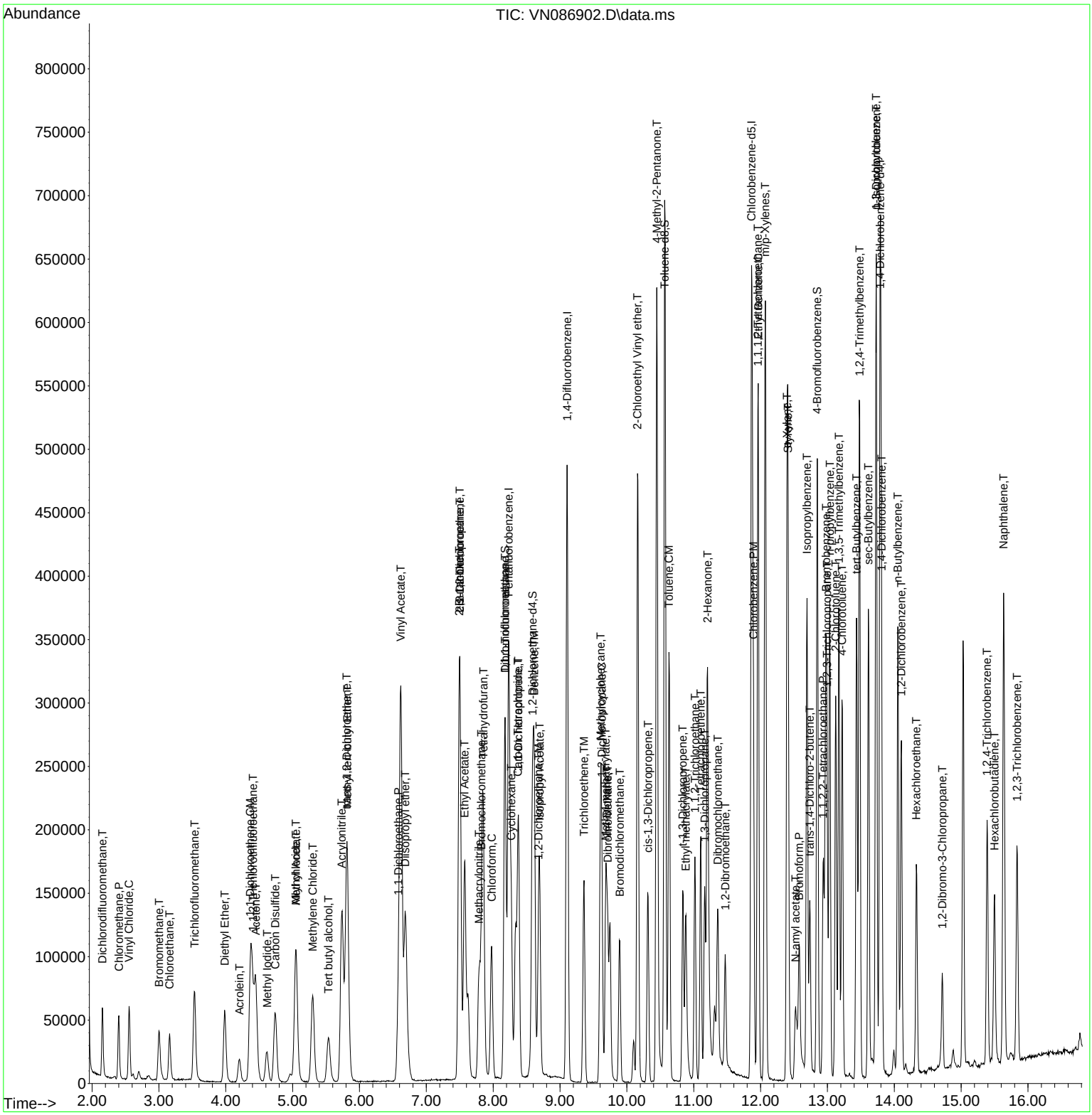
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086902.D
Acq On : 09 Jun 2025 14:04
Operator : JC\MD
Sample : VN0609WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 03:32:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025



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

Manual Integration Report

Sequence:	vn060625	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN086862.D	1,1,2-Trichlorotrifluoroethane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,4-Dichlorobenzene	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	2-Hexanone	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	N-amyl acetate	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	N-amyl acetate	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC020	VN086864.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:19 AM	MMDadoda	6/9/2025 1:13:21 PM	Peak Integrated by Software
VSTDICCC050	VN086865.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:25 AM	MMDadoda	6/9/2025 1:13:23 PM	Peak Integrated by Software
VSTDICC100	VN086866.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:29 AM	MMDadoda	6/9/2025 1:13:28 PM	Peak Integrated by Software
VSTDICC150	VN086867.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:34 AM	MMDadoda	6/9/2025 1:13:30 PM	Peak Integrated by Software
VSTDICV050	VN086869.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:38 AM	MMDadoda	6/9/2025 1:13:34 PM	Peak Integrated by Software
VSTDCCC050	VN086886.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:55 AM	MMDadoda	6/9/2025 1:13:44 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn060625	Instrument	MSVOA_n

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

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

Manual Integration Report

Sequence:	vn060925	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086888.D	1,2,3-Trichloropropane	JOHN	6/10/2025 9:00:41 AM	MMDadoda	6/10/2025 2:25:05 PM	Peak Integrated by Software
VN0609WBS01	VN086893.D	1,2,3-Trichloropropane	JOHN	6/10/2025 9:00:50 AM	MMDadoda	6/10/2025 2:25:08 PM	Peak Integrated by Software
VN0609WBSD01	VN086902.D	1,2,3-Trichloropropane	JOHN	6/10/2025 9:01:04 AM	MMDadoda	6/10/2025 2:25:12 PM	Peak Integrated by Software
VSTDCCC050	VN086911.D	1,2,3-Trichloropropane	JOHN	6/10/2025 9:03:16 AM	MMDadoda	6/10/2025 2:25:13 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM		
SubDirectory	VN060625	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086861.D	06 Jun 2025 07:59	JC\MD	Ok
2	VSTDICC001	VN086862.D	06 Jun 2025 12:44	JC\MD	Ok,M
3	VSTDICC005	VN086863.D	06 Jun 2025 13:17	JC\MD	Ok,M
4	VSTDICC020	VN086864.D	06 Jun 2025 13:40	JC\MD	Ok,M
5	VSTDICCC050	VN086865.D	06 Jun 2025 14:03	JC\MD	Ok,M
6	VSTDICC100	VN086866.D	06 Jun 2025 14:26	JC\MD	Ok,M
7	VSTDICC150	VN086867.D	06 Jun 2025 14:49	JC\MD	Ok,M
8	IBLK	VN086868.D	06 Jun 2025 15:12	JC\MD	Ok
9	VSTDICV050	VN086869.D	06 Jun 2025 15:54	JC\MD	Ok,M
10	VN0606WBL01	VN086870.D	06 Jun 2025 16:47	JC\MD	Ok
11	VN0606WBL02	VN086871.D	06 Jun 2025 17:10	JC\MD	Ok
12	VN0606WBS01	VN086872.D	06 Jun 2025 17:33	JC\MD	Ok,M
13	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56	JC\MD	Ok,M
14	Q2254-01	VN086874.D	06 Jun 2025 18:19	JC\MD	Not Ok
15	Q2237-02	VN086875.D	06 Jun 2025 18:42	JC\MD	Ok
16	Q2216-02	VN086876.D	06 Jun 2025 19:05	JC\MD	Ok
17	Q2216-03	VN086877.D	06 Jun 2025 19:28	JC\MD	Ok
18	Q2216-04	VN086878.D	06 Jun 2025 19:51	JC\MD	Ok
19	Q2216-05	VN086879.D	06 Jun 2025 20:13	JC\MD	Not Ok
20	Q2216-06	VN086880.D	06 Jun 2025 20:36	JC\MD	Not Ok
21	Q2206-04	VN086881.D	06 Jun 2025 20:59	JC\MD	Not Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM		
SubDirectory	VN060625	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2242-04	VN086882.D	06 Jun 2025 21:21	JC\MD	Not Ok
23	Q2192-01	VN086883.D	06 Jun 2025 21:44	JC\MD	Not Ok
24	Q2198-02	VN086884.D	06 Jun 2025 22:07	JC\MD	Not Ok
25	Q2198-04	VN086885.D	06 Jun 2025 22:29	JC\MD	Not Ok
26	VSTDCCC050	VN086886.D	06 Jun 2025 22:52	JC\MD	Not Ok

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060925

Review By	John Carlone	Review On	6/10/2025 9:06:37 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/10/2025 2:26:32 PM		
SubDirectory	VN060925	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134162
Initial Calibration Stds	
CCC	VP134163,VP134164
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086887.D	09 Jun 2025 08:04	JC\MD	Ok
2	VSTDCCC050	VN086888.D	09 Jun 2025 08:37	JC\MD	Ok,M
3	VN0609MBL01	VN086889.D	09 Jun 2025 09:12	JC\MD	Ok
4	VN0609WBL01	VN086890.D	09 Jun 2025 09:33	JC\MD	Ok
5	VN0609MBS01	VN086891.D	09 Jun 2025 09:55	JC\MD	Ok,M
6	Q2216-01	VN086892.D	09 Jun 2025 10:29	JC\MD	Dilution
7	VN0609WBS01	VN086893.D	09 Jun 2025 10:50	JC\MD	Ok,M
8	Q2254-01	VN086894.D	09 Jun 2025 11:12	JC\MD	Ok
9	Q2216-05	VN086895.D	09 Jun 2025 11:33	JC\MD	Ok
10	Q2216-06	VN086896.D	09 Jun 2025 11:55	JC\MD	Ok,M
11	Q2236-01	VN086897.D	09 Jun 2025 12:16	JC\MD	Ok
12	Q2236-05RE	VN086898.D	09 Jun 2025 12:38	JC\MD	Confirms
13	Q2236-09	VN086899.D	09 Jun 2025 12:59	JC\MD	Ok
14	Q2236-17RE	VN086900.D	09 Jun 2025 13:21	JC\MD	Confirms
15	Q2216-01DL	VN086901.D	09 Jun 2025 13:42	JC\MD	Ok
16	VN0609WBSD01	VN086902.D	09 Jun 2025 14:04	JC\MD	Ok,M
17	Q2192-01	VN086903.D	09 Jun 2025 14:25	JC\MD	Ok
18	Q2242-04	VN086904.D	09 Jun 2025 14:47	JC\MD	Ok
19	Q2198-02	VN086905.D	09 Jun 2025 15:08	JC\MD	Ok
20	Q2198-04	VN086906.D	09 Jun 2025 15:30	JC\MD	Ok
21	Q2206-04	VN086907.D	09 Jun 2025 15:51	JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060925

Review By	John Carlone	Review On	6/10/2025 9:06:37 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/10/2025 2:26:32 PM		
SubDirectory	VN060925	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134162
Initial Calibration Stds	
CCC	VP134163,VP134164
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2226-04	VN086908.D	09 Jun 2025 16:13	JC\MD	Ok
23	Q2228-04	VN086909.D	09 Jun 2025 16:34	JC\MD	Ok
24	Q2235-01	VN086910.D	09 Jun 2025 16:55	JC\MD	Ok
25	VSTDCCC050	VN086911.D	09 Jun 2025 17:17	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM		
SubDirectory	VN060625	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086861.D	06 Jun 2025 07:59		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN086862.D	06 Jun 2025 12:44	Method failed for com.#13	JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN086863.D	06 Jun 2025 13:17		JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN086864.D	06 Jun 2025 13:40		JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN086865.D	06 Jun 2025 14:03		JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN086866.D	06 Jun 2025 14:26		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN086867.D	06 Jun 2025 14:49		JC\MD	Ok,M
8	IBLK	IBLK	VN086868.D	06 Jun 2025 15:12		JC\MD	Ok
9	VSTDICV050	ICVVN060625	VN086869.D	06 Jun 2025 15:54		JC\MD	Ok,M
10	VN0606WBL01	VN0606WBL01	VN086870.D	06 Jun 2025 16:47		JC\MD	Ok
11	VN0606WBL02	VN0606WBL02	VN086871.D	06 Jun 2025 17:10		JC\MD	Ok
12	VN0606WBS01	VN0606WBS01	VN086872.D	06 Jun 2025 17:33		JC\MD	Ok,M
13	VN0606WBSD01	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56		JC\MD	Ok,M
14	Q2254-01	BP-VPB-182-GW-810-8	VN086874.D	06 Jun 2025 18:19	vial A pH<2 endccc out of tune	JC\MD	Not Ok
15	Q2237-02	TW-WTS-10	VN086875.D	06 Jun 2025 18:42	vial A pH<2	JC\MD	Ok
16	Q2216-02	3887	VN086876.D	06 Jun 2025 19:05	vial A pH<2	JC\MD	Ok
17	Q2216-03	3888	VN086877.D	06 Jun 2025 19:28	vial A pH<2	JC\MD	Ok
18	Q2216-04	3864	VN086878.D	06 Jun 2025 19:51	vial A pH<2	JC\MD	Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM		
SubDirectory	VN060625	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2216-05	3865	VN086879.D	06 Jun 2025 20:13	vial A pH<2 Out of Tune	JC\MD	Not Ok
20	Q2216-06	3851	VN086880.D	06 Jun 2025 20:36	vial A pH<2 Out of Tune	JC\MD	Not Ok
21	Q2206-04	TP-1	VN086881.D	06 Jun 2025 20:59	vial A pH<2 Out of Tune	JC\MD	Not Ok
22	Q2242-04	TP09-MHJ	VN086882.D	06 Jun 2025 21:21	vial A pH<2 Out of Tune	JC\MD	Not Ok
23	Q2192-01	SB-1	VN086883.D	06 Jun 2025 21:44	vial A pH<2 Out of Tune	JC\MD	Not Ok
24	Q2198-02	B-202-SB02	VN086884.D	06 Jun 2025 22:07	vial A pH<2 Out of Tune	JC\MD	Not Ok
25	Q2198-04	B-207-SB02	VN086885.D	06 Jun 2025 22:29	vial A pH<2 Out of Tune	JC\MD	Not Ok
26	VSTDCCC050	VSTDCCC050EC	VN086886.D	06 Jun 2025 22:52	Out of Tune	JC\MD	Not Ok

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060925

Review By	John Carlone	Review On	6/10/2025 9:06:37 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/10/2025 2:26:32 PM		
SubDirectory	VN060925	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134162
Initial Calibration Stds	
CCC	VP134163,VP134164
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	VN086887.D	09 Jun 2025 08:04		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086888.D	09 Jun 2025 08:37	pH#Lot#V12668	JC\MD	Ok,M
3	VN0609MBL01	VN0609MBL01	VN086889.D	09 Jun 2025 09:12		JC\MD	Ok
4	VN0609WBL01	VN0609WBL01	VN086890.D	09 Jun 2025 09:33		JC\MD	Ok
5	VN0609MBS01	VN0609MBS01	VN086891.D	09 Jun 2025 09:55		JC\MD	Ok,M
6	Q2216-01	3898	VN086892.D	09 Jun 2025 10:29	need 10X	JC\MD	Dilution
7	VN0609WBS01	VN0609WBS01	VN086893.D	09 Jun 2025 10:50		JC\MD	Ok,M
8	Q2254-01	BP-VPB-182-GW-810-8	VN086894.D	09 Jun 2025 11:12	vial B pH<2	JC\MD	Ok
9	Q2216-05	3865	VN086895.D	09 Jun 2025 11:33	vial B pH<2	JC\MD	Ok
10	Q2216-06	3851	VN086896.D	09 Jun 2025 11:55	vial B pH<2	JC\MD	Ok,M
11	Q2236-01	WC-A4-05A-G	VN086897.D	09 Jun 2025 12:16	vial B pH#5.0	JC\MD	Ok
12	Q2236-05RE	WC-A2-04-GRE	VN086898.D	09 Jun 2025 12:38	vial B pH#5.0 Surrogate Fail	JC\MD	Confirms
13	Q2236-09	WC-A2-05-G	VN086899.D	09 Jun 2025 12:59	vial B pH#5.0	JC\MD	Ok
14	Q2236-17RE	WC-A2-07-GRE	VN086900.D	09 Jun 2025 13:21	vial B pH#5.0 Surrogate Fail	JC\MD	Confirms
15	Q2216-01DL	3898DL	VN086901.D	09 Jun 2025 13:42		JC\MD	Ok
16	VN0609WBSD01	VN0609WBSD01	VN086902.D	09 Jun 2025 14:04		JC\MD	Ok,M
17	Q2192-01	SB-1	VN086903.D	09 Jun 2025 14:25	vial B pH#5.0	JC\MD	Ok
18	Q2242-04	TP09-MHJ	VN086904.D	09 Jun 2025 14:47	vial B pH#5.0	JC\MD	Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060925

Review By	John Carlone	Review On	6/10/2025 9:06:37 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/10/2025 2:26:32 PM		
SubDirectory	VN060925	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134162
Initial Calibration Stds	
CCC	VP134163,VP134164
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2198-02	B-202-SB02	VN086905.D	09 Jun 2025 15:08	vial B pH#5.0	JC\MD	Ok
20	Q2198-04	B-207-SB02	VN086906.D	09 Jun 2025 15:30	vial B pH#5.0	JC\MD	Ok
21	Q2206-04	TP-1	VN086907.D	09 Jun 2025 15:51	vial B pH#5.0	JC\MD	Ok
22	Q2226-04	TP06-MHI-WC	VN086908.D	09 Jun 2025 16:13	vial B pH#5.0	JC\MD	Ok
23	Q2228-04	TP08-MHI-WC	VN086909.D	09 Jun 2025 16:34	vial B pH#5.0	JC\MD	Ok
24	Q2235-01	WC-A2-08-G	VN086910.D	09 Jun 2025 16:55	vial B pH#5.0	JC\MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VN086911.D	09 Jun 2025 17:17		JC\MD	Ok,M

M : Manual Integration

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

LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP VOA	8260D			06/09/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP VOA	8260D			06/09/25	

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168272

SOP ID : M1311-TCLP-16

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 / ZHE-2

TCLP Filter ID : 50223706

Start Prep Date : 06/04/2025 **Time :** 15:00

End Prep Date : 06/05/2025 **Time :** 09:20

Combination Ratio : 20

ZHE Cleaning Batch : JB N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JB

Supervisor By : JZ

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	WP112795
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	430992	N/A

Extraction Conformance/Non-Conformance Comments:

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/05/25 11:30	JB ICCA Acm	S.Y IVDC Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168272

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
PB168272TB	LEB272	16	N/A	500	N/A	N/A	N/A	4.94	N/A	ZHE-2
Q2192-01	SB-1	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2194-02	COMP-12	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2194-04	COMP-13	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2198-02	B-202-SB02	04	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2198-04	~~B-207-SB01~~ B-207-SB02	05	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2206-04	TP-1	06	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2207-09	BU-703-COMP-01 6613.25	07	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2207-18	BU-703-COMP-02	08	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2207-27	BU-703-COMP-03	09	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2207-36	BU-703-COMP-04	10	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2207-45	BU-703-COMP-05	11	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q2208-09	BU-703-COMP-06	12	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q2208-18	BU-703-COMP-07	13	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q2208-27	BU-703-COMP-08	14	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q2208-36	BU-703-COMP-09	15	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB168272

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168272TB	LEB272	N/A	N/A	N/A	N/A	N/A	N/A
Q2192-01	SB-1	N/A	N/A	N/A	N/A	100	N/A
Q2194-02	COMP-12	N/A	N/A	N/A	N/A	100	N/A
Q2194-04	COMP-13	N/A	N/A	N/A	N/A	100	N/A
Q2198-02	B-202-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2198-04	~~B-207-SB01~~ B-207-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2206-04	TP-1 TP	N/A	N/A	N/A	N/A	100	N/A
Q2207-09	BU-703-COMP-01	N/A	N/A	N/A	N/A	100	N/A
Q2207-18	BU-703-COMP-02 06/13/25	N/A	N/A	N/A	N/A	100	N/A
Q2207-27	BU-703-COMP-03	N/A	N/A	N/A	N/A	100	N/A
Q2207-36	BU-703-COMP-04	N/A	N/A	N/A	N/A	100	N/A
Q2207-45	BU-703-COMP-05	N/A	N/A	N/A	N/A	100	N/A
Q2208-09	BU-703-COMP-06	N/A	N/A	N/A	N/A	100	N/A
Q2208-18	BU-703-COMP-07	N/A	N/A	N/A	N/A	100	N/A
Q2208-27	BU-703-COMP-08	N/A	N/A	N/A	N/A	100	N/A
Q2208-36	BU-703-COMP-09	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHE Q2198 **WorkList ID :** 189915 **Department :** TCLP Extraction **Date :** 06-04-2025 09:51:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2192-01	SB-1	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/03/2025	1311 ZHE
Q2194-02	COMP-12	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311 ZHE
Q2194-04	COMP-13	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311 ZHE
Q2198-02	B-202-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311 ZHE
Q2198-04	~~B-207-SB01~~ B-207-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	N22	05/31/2025	1311 ZHE
Q2206-04	TP-1	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	N22	06/01/2025	1311 ZHE
Q2207-09	BU-703-COMP-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/04/2025	1311 ZHE
Q2207-18	BU-703-COMP-02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2207-27	BU-703-COMP-03	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2207-36	BU-703-COMP-04	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2207-45	BU-703-COMP-05	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2208-09	BU-703-COMP-06	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2208-18	BU-703-COMP-07	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2208-27	BU-703-COMP-08	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2208-36	BU-703-COMP-09	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE

Date/Time 06/04/25 12:00
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 06/04/25 17:30
Raw Sample Received by:
Raw Sample Relinquished by: