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:	**ENV-105-SB01**								
Q1514-01	ENV-105-SB01	SOIL	Acetone		27.4		4.70	18.7	ug/Kg
			Total Voc :		27.4				
			Total Concentration:		27.4				
Client ID:	**ENV-105-SB02**								
Q1514-03	ENV-105-SB02	SOIL	Acetone		18.8	J	5.10	20.6	ug/Kg
Q1514-03	ENV-105-SB02	SOIL	Carbon Disulfide		2.20	J	1.10	4.10	ug/Kg
			Total Voc :		21.0				
			Total Concentration:		21.0				
Client ID:	**ENV-103-SB01**								
Q1514-05	ENV-103-SB01	SOIL	Bromomethane		0.87	J	0.75	3.70	ug/Kg
			Total Voc :		0.87				
			Total Concentration:		0.87				
Client ID:	**ENV-105-GW01**								
Q1514-07	ENV-105-GW01	Water	Acetone		7.20		1.40	5.00	ug/L
			Total Voc :		7.20				
			Total Concentration:		7.20				
Client ID:	**ENV-103-GW01**								
Q1514-08	ENV-103-GW01	Water	Acetone		26.1		1.40	5.00	ug/L
			Total Voc :		26.1				
Q1514-08	ENV-103-GW01	Water	Dimethyl sulfide	*	31.3	J	0	0	ug/L
			Total Tics :		31.3				
			Total Concentration:		57.4				
Client ID:	**FB03062025**								
Q1514-09	FB03062025	Water	Acetone		10.0		1.40	5.00	ug/L
			Total Voc :		10.0				
			Total Concentration:		10.0				

SAMPLE DATA

Raw Data: **VY021482.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:	Q1514-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.6
Sample Wt/Vol:	7.28 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021482.D	1		03/11/25 13:35	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	3.70	ug/Kg
74-87-3	Chloromethane	0.87	U	0.87	3.70	ug/Kg
75-01-4	Vinyl Chloride	0.58	U	0.58	3.70	ug/Kg
74-83-9	Bromomethane	0.77	U	0.77	3.70	ug/Kg
75-00-3	Chloroethane	0.76	U	0.76	3.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.68	U	0.68	3.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.80	U	0.80	3.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.58	U	0.58	3.70	ug/Kg
67-64-1	Acetone	27.4		4.70	18.7	ug/Kg
75-15-0	Carbon Disulfide	0.96	U	0.96	3.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.50	3.70	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	3.70	ug/Kg
75-09-2	Methylene Chloride	2.60	U	2.60	7.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.63	U	0.63	3.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.47	U	0.47	3.70	ug/Kg
110-82-7	Cyclohexane	0.52	U	0.52	3.70	ug/Kg
78-93-3	2-Butanone	4.30	U	4.30	18.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.65	U	0.65	3.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.46	U	0.46	3.70	ug/Kg
74-97-5	Bromochloromethane	1.80	U	1.80	3.70	ug/Kg
67-66-3	Chloroform	0.50	U	0.50	3.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.58	U	0.58	3.70	ug/Kg
108-87-2	Methylcyclohexane	0.65	U	0.65	3.70	ug/Kg
71-43-2	Benzene	0.54	U	0.54	3.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.46	U	0.46	3.70	ug/Kg
79-01-6	Trichloroethene	0.56	U	0.56	3.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.49	U	0.49	3.70	ug/Kg
75-27-4	Bromodichloromethane	0.42	U	0.42	3.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	18.7	ug/Kg
108-88-3	Toluene	0.50	U	0.50	3.70	ug/Kg

Raw Data: **VY021482.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:	Q1514-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.6
Sample Wt/Vol:	7.28 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021482.D	1		03/11/25 13:35	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.45	U	0.45	3.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.43	U	0.43	3.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.63	U	0.63	3.70	ug/Kg
591-78-6	2-Hexanone	3.60	U	3.60	18.7	ug/Kg
124-48-1	Dibromochloromethane	0.49	U	0.49	3.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.59	U	0.59	3.70	ug/Kg
127-18-4	Tetrachloroethene	0.67	U	0.67	3.70	ug/Kg
108-90-7	Chlorobenzene	0.55	U	0.55	3.70	ug/Kg
100-41-4	Ethyl Benzene	0.46	U	0.46	3.70	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	7.50	ug/Kg
95-47-6	o-Xylene	0.52	U	0.52	3.70	ug/Kg
100-42-5	Styrene	0.45	U	0.45	3.70	ug/Kg
75-25-2	Bromoform	0.61	U	0.61	3.70	ug/Kg
98-82-8	Isopropylbenzene	0.50	U	0.50	3.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.82	U	0.82	3.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.55	U	0.55	3.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.60	U	0.60	3.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.44	U	0.44	3.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.20	U	1.20	3.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.59	U	0.59	3.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.58	U	0.58	3.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.4		70 (63) - 130 (155)	121%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		70 (70) - 130 (134)	103%	SPK: 50
2037-26-5	Toluene-d8	42.8		70 (74) - 130 (123)	86%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.8		70 (38) - 130 (136)	74%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	311000	7.707			
540-36-3	1,4-Difluorobenzene	561000	8.616			
3114-55-4	Chlorobenzene-d5	429000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	160000	13.346			

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:	Q1514-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.6
Sample Wt/Vol:	7.28 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021482.D	1		03/11/25 13:35	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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: **VY021481.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-SB02	SDG No.:	Q1514
Lab Sample ID:	Q1514-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	81
Sample Wt/Vol:	7.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021481.D	1		03/11/25 13:11	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.10	ug/Kg
74-87-3	Chloromethane	0.96	U	0.96	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.64	U	0.64	4.10	ug/Kg
74-83-9	Bromomethane	0.85	U	0.85	4.10	ug/Kg
75-00-3	Chloroethane	0.83	U	0.83	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.75	U	0.75	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.88	U	0.88	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.64	U	0.64	4.10	ug/Kg
67-64-1	Acetone	18.8	J	5.10	20.6	ug/Kg
75-15-0	Carbon Disulfide	2.20	J	1.10	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.55	U	0.55	4.10	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.10	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	8.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.69	U	0.69	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.52	U	0.52	4.10	ug/Kg
110-82-7	Cyclohexane	0.57	U	0.57	4.10	ug/Kg
78-93-3	2-Butanone	4.70	U	4.70	20.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.72	U	0.72	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	4.10	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.10	ug/Kg
67-66-3	Chloroform	0.55	U	0.55	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.64	U	0.64	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.72	U	0.72	4.10	ug/Kg
71-43-2	Benzene	0.59	U	0.59	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.50	U	0.50	4.10	ug/Kg
79-01-6	Trichloroethene	0.62	U	0.62	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.54	U	0.54	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.46	U	0.46	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	20.6	ug/Kg
108-88-3	Toluene	0.55	U	0.55	4.10	ug/Kg

Raw Data: **VY021481.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-SB02	SDG No.:	Q1514
Lab Sample ID:	Q1514-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	81
Sample Wt/Vol:	7.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021481.D	1		03/11/25 13:11	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.50	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.47	U	0.47	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.69	U	0.69	4.10	ug/Kg
591-78-6	2-Hexanone	4.00	U	4.00	20.6	ug/Kg
124-48-1	Dibromochloromethane	0.54	U	0.54	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.65	U	0.65	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.73	U	0.73	4.10	ug/Kg
108-90-7	Chlorobenzene	0.61	U	0.61	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.51	U	0.51	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.30	ug/Kg
95-47-6	o-Xylene	0.58	U	0.58	4.10	ug/Kg
100-42-5	Styrene	0.50	U	0.50	4.10	ug/Kg
75-25-2	Bromoform	0.67	U	0.67	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.55	U	0.55	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.91	U	0.91	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.61	U	0.61	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.66	U	0.66	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.49	U	0.49	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.65	U	0.65	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.64	U	0.64	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.8		70 (63) - 130 (155)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.6		70 (38) - 130 (136)	85%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	269000	7.707			
540-36-3	1,4-Difluorobenzene	488000	8.615			
3114-55-4	Chlorobenzene-d5	426000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	160000	13.346			

Raw Data: **VY021481.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-SB02	SDG No.:	Q1514
Lab Sample ID:	Q1514-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	81
Sample Wt/Vol:	7.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021481.D	1		03/11/25 13:11	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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: **VY021480.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:	Q1514-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.1
Sample Wt/Vol:	7.66 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021480.D	1		03/11/25 12:48	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	3.70	ug/Kg
74-87-3	Chloromethane	0.85	U	0.85	3.70	ug/Kg
75-01-4	Vinyl Chloride	0.56	U	0.56	3.70	ug/Kg
74-83-9	Bromomethane	0.87	J	0.75	3.70	ug/Kg
75-00-3	Chloroethane	0.74	U	0.74	3.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.67	U	0.67	3.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.78	U	0.78	3.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.57	U	0.57	3.70	ug/Kg
67-64-1	Acetone	4.60	U	4.60	18.3	ug/Kg
75-15-0	Carbon Disulfide	0.94	U	0.94	3.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.49	U	0.49	3.70	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	3.70	ug/Kg
75-09-2	Methylene Chloride	2.50	U	2.50	7.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.62	U	0.62	3.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.46	U	0.46	3.70	ug/Kg
110-82-7	Cyclohexane	0.51	U	0.51	3.70	ug/Kg
78-93-3	2-Butanone	4.20	U	4.20	18.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.64	U	0.64	3.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.45	U	0.45	3.70	ug/Kg
74-97-5	Bromochloromethane	1.80	U	1.80	3.70	ug/Kg
67-66-3	Chloroform	0.49	U	0.49	3.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.57	U	0.57	3.70	ug/Kg
108-87-2	Methylcyclohexane	0.64	U	0.64	3.70	ug/Kg
71-43-2	Benzene	0.53	U	0.53	3.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.45	U	0.45	3.70	ug/Kg
79-01-6	Trichloroethene	0.55	U	0.55	3.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.48	U	0.48	3.70	ug/Kg
75-27-4	Bromodichloromethane	0.41	U	0.41	3.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	18.3	ug/Kg
108-88-3	Toluene	0.49	U	0.49	3.70	ug/Kg

Raw Data: **VY021480.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:	Q1514-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.1
Sample Wt/Vol:	7.66 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021480.D	1		03/11/25 12:48	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.44	U	0.44	3.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.42	U	0.42	3.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.62	U	0.62	3.70	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	18.3	ug/Kg
124-48-1	Dibromochloromethane	0.48	U	0.48	3.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.58	U	0.58	3.70	ug/Kg
127-18-4	Tetrachloroethene	0.65	U	0.65	3.70	ug/Kg
108-90-7	Chlorobenzene	0.54	U	0.54	3.70	ug/Kg
100-41-4	Ethyl Benzene	0.45	U	0.45	3.70	ug/Kg
179601-23-1	m/p-Xylenes	0.99	U	0.99	7.30	ug/Kg
95-47-6	o-Xylene	0.51	U	0.51	3.70	ug/Kg
100-42-5	Styrene	0.44	U	0.44	3.70	ug/Kg
75-25-2	Bromoform	0.59	U	0.59	3.70	ug/Kg
98-82-8	Isopropylbenzene	0.49	U	0.49	3.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.81	U	0.81	3.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.54	U	0.54	3.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.59	U	0.59	3.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.43	U	0.43	3.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.10	U	1.10	3.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.58	U	0.58	3.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.57	U	0.57	3.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.4		70 (63) - 130 (155)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 (70) - 130 (134)	101%	SPK: 50
2037-26-5	Toluene-d8	47.8		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.4		70 (38) - 130 (136)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	234000	7.707			
540-36-3	1,4-Difluorobenzene	403000	8.615			
3114-55-4	Chlorobenzene-d5	340000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.346			

Raw Data: **VY021480.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:	Q1514-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.1
Sample Wt/Vol:	7.66 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021480.D	1		03/11/25 12:48	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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: **VN085919.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-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085919.D	1		03/10/25 17:11	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	7.20		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	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
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	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
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Raw Data: **VN085919.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-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085919.D	1		03/10/25 17:11	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	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
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.9		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	45.4		70 (86) - 130 (113)	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	181000	8.224			
540-36-3	1,4-Difluorobenzene	337000	9.1			
3114-55-4	Chlorobenzene-d5	290000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.788			

Raw Data: **VN085919.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-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085919.D	1		03/10/25 17:11	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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: **VN085920.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-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085920.D	1		03/10/25 17:35	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	26.1		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	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
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	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
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

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-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085920.D	1		03/10/25 17:35	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	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
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.6		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.9		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	199000	8.224			
540-36-3	1,4-Difluorobenzene	374000	9.1			
3114-55-4	Chlorobenzene-d5	326000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	130000	13.788			
TENTATIVE IDENTIFIED COMPOUNDS						

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-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085920.D	1		03/10/25 17:35	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000075-18-3	Dimethyl sulfide	31.3	J		4.52	ug/L

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: **VN085934.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:	03/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	FB03062025	SDG No.:	Q1514
Lab Sample ID:	Q1514-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085934.D	1		03/11/25 16:16	VN031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	10.0		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	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
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	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
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Raw Data: **VN085934.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:	03/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	FB03062025	SDG No.:	Q1514
Lab Sample ID:	Q1514-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085934.D	1		03/11/25 16:16	VN031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	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
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.7		70 (74) - 130 (125)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	48.4		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	177000	8.224			
540-36-3	1,4-Difluorobenzene	336000	9.1			
3114-55-4	Chlorobenzene-d5	299000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.788			

Raw Data: **VN085934.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:	03/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	FB03062025	SDG No.:	Q1514
Lab Sample ID:	Q1514-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085934.D	1		03/11/25 16:16	VN031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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: **VN085922.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:	03/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	TB03062025	SDG No.:	Q1514
Lab Sample ID:	Q1514-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085922.D	1		03/10/25 18:23	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	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
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	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
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Raw Data: **VN085922.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:	03/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	TB03062025	SDG No.:	Q1514
Lab Sample ID:	Q1514-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085922.D	1		03/10/25 18:23	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	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
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.8		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	48.0		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	185000	8.224			
540-36-3	1,4-Difluorobenzene	344000	9.1			
3114-55-4	Chlorobenzene-d5	305000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.788			

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:	03/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	TB03062025	SDG No.:	Q1514
Lab Sample ID:	Q1514-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085922.D	1		03/10/25 18:23	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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,
Fax : 908 789 8922

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
Q1514-01	ENV-105-SB01	1,2-Dichloroethane-d4	50	60.4	121	70 (63)	130 (155)
		Dibromofluoromethane	50	51.4	103	70 (70)	130 (134)
		Toluene-d8	50	42.8	86	70 (74)	130 (123)
		4-Bromofluorobenzene	50	36.8	74	70 (38)	130 (136)
Q1514-03	ENV-105-SB02	1,2-Dichloroethane-d4	50	59.8	120	70 (63)	130 (155)
		Dibromofluoromethane	50	51.8	104	70 (70)	130 (134)
		Toluene-d8	50	48.7	97	70 (74)	130 (123)
		4-Bromofluorobenzene	50	42.6	85	70 (38)	130 (136)
Q1514-05	ENV-103-SB01	1,2-Dichloroethane-d4	50	56.4	113	70 (63)	130 (155)
		Dibromofluoromethane	50	50.8	101	70 (70)	130 (134)
		Toluene-d8	50	47.8	96	70 (74)	130 (123)
		4-Bromofluorobenzene	50	40.4	81	70 (38)	130 (136)
VY0311SBL01	VY0311SBL01	1,2-Dichloroethane-d4	50	53.3	107	70 (63)	130 (155)
		Dibromofluoromethane	50	50.4	101	70 (70)	130 (134)
		Toluene-d8	50	48.5	97	70 (74)	130 (123)
		4-Bromofluorobenzene	50	42.5	85	70 (38)	130 (136)
VY0311SBS01	VY0311SBS01	1,2-Dichloroethane-d4	50	52.4	105	70 (63)	130 (155)
		Dibromofluoromethane	50	52.9	106	70 (70)	130 (134)
		Toluene-d8	50	52.2	104	70 (74)	130 (123)
		4-Bromofluorobenzene	50	52.5	105	70 (38)	130 (136)
VY0311SBSD01	VY0311SBSD01	1,2-Dichloroethane-d4	50	54.4	109	70 (63)	130 (155)
		Dibromofluoromethane	50	53.0	106	70 (70)	130 (134)
		Toluene-d8	50	52.2	104	70 (74)	130 (123)
		4-Bromofluorobenzene	50	52.7	105	70 (38)	130 (136)

( ) = LABORATORY INHOUSE LIMIT

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

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
Q1514-07	ENV-105-GW01	1,2-Dichloroethane-d4	50	52.9	106	70 (74)	130 (125)
		Dibromofluoromethane	50	48.0	96	70 (75)	130 (124)
		Toluene-d8	50	45.4	91	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.1	94	70 (77)	130 (121)
Q1514-08	ENV-103-GW01	1,2-Dichloroethane-d4	50	53.6	107	70 (74)	130 (125)
		Dibromofluoromethane	50	48.4	97	70 (75)	130 (124)
		Toluene-d8	50	47.7	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.9	94	70 (77)	130 (121)
Q1514-09	FB03062025	1,2-Dichloroethane-d4	50	58.7	117	70 (74)	130 (125)
		Dibromofluoromethane	50	51.2	102	70 (75)	130 (124)
		Toluene-d8	50	48.4	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.5	95	70 (77)	130 (121)
Q1514-10	TB03062025	1,2-Dichloroethane-d4	50	55.8	112	70 (74)	130 (125)
		Dibromofluoromethane	50	49.8	100	70 (75)	130 (124)
		Toluene-d8	50	48.0	96	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.7	95	70 (77)	130 (121)
VN0310WBL01	VN0310WBL01	1,2-Dichloroethane-d4	50	54.6	109	70 (74)	130 (125)
		Dibromofluoromethane	50	50.6	101	70 (75)	130 (124)
		Toluene-d8	50	47.0	94	70 (86)	130 (113)
		4-Bromofluorobenzene	50	45.0	90	70 (77)	130 (121)
VN0310WBS01	VN0310WBS01	1,2-Dichloroethane-d4	50	50.3	101	70 (74)	130 (125)
		Dibromofluoromethane	50	49.3	99	70 (75)	130 (124)
		Toluene-d8	50	50.0	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.4	109	70 (77)	130 (121)
VN0310WBSD0	VN0310WBSD01	1,2-Dichloroethane-d4	50	48.9	98	70 (74)	130 (125)
		Dibromofluoromethane	50	47.2	94	70 (75)	130 (124)
		Toluene-d8	50	46.9	94	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.4	101	70 (77)	130 (121)
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)

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085917.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0310WBS01	Dichlorodifluoromethane	20	21.1	ug/L	106			40 (69)	160 (116)	
	Chloromethane	20	21.1	ug/L	106			40 (65)	160 (116)	
	Vinyl chloride	20	19.7	ug/L	99			70 (65)	130 (117)	
	Bromomethane	20	17.8	ug/L	89			40 (58)	160 (125)	
	Chloroethane	20	17.5	ug/L	88			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.9	ug/L	100			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/L	100			70 (80)	130 (112)	
	1,1-Dichloroethene	20	20.4	ug/L	102			70 (74)	130 (110)	
	Acetone	100	110	ug/L	110			40 (60)	160 (125)	
	Carbon disulfide	20	22.1	ug/L	111			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	21.4	ug/L	107			70 (78)	130 (114)	
	Methyl Acetate	20	16.9	ug/L	85			70 (67)	130 (125)	
	Methylene Chloride	20	20.5	ug/L	103			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	20.2	ug/L	101			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.9	ug/L	104			70 (78)	130 (112)	
	Cyclohexane	20	21.8	ug/L	109			70 (75)	130 (110)	
	2-Butanone	100	110	ug/L	110			40 (65)	160 (122)	
	Carbon Tetrachloride	20	20.8	ug/L	104			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	20.0	ug/L	100			70 (77)	130 (110)	
	Bromochloromethane	20	24.8	ug/L	124			70 (70)	130 (124)	
	Chloroform	20	20.6	ug/L	103			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	20.5	ug/L	103			70 (80)	130 (108)	
	Methylcyclohexane	20	21.5	ug/L	108			70 (72)	130 (115)	
	Benzene	20	20.9	ug/L	104			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.0	ug/L	105			70 (80)	130 (115)	
	Trichloroethene	20	19.8	ug/L	99			70 (77)	130 (113)	
	1,2-Dichloropropane	20	21.4	ug/L	107			70 (83)	130 (111)	
	Bromodichloromethane	20	20.4	ug/L	102			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	110	ug/L	110			40 (74)	160 (118)	
	Toluene	20	21.9	ug/L	110			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	21.6	ug/L	108			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	21.7	ug/L	109			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.3	ug/L	102			70 (83)	130 (112)	
	2-Hexanone	100	120	ug/L	120			40 (73)	160 (117)	
	Dibromochloromethane	20	20.8	ug/L	104			70 (82)	130 (110)	
	1,2-Dibromoethane	20	20.7	ug/L	104			70 (81)	130 (110)	
	Tetrachloroethene	20	20.9	ug/L	104			70 (67)	130 (123)	
	Chlorobenzene	20	20.1	ug/L	101			70 (82)	130 (109)	
	Ethyl Benzene	20	21.2	ug/L	106			70 (83)	130 (109)	
	m/p-Xylenes	40	44.9	ug/L	112			70 (82)	130 (110)	
	o-Xylene	20	21.6	ug/L	108			70 (83)	130 (109)	
	Styrene	20	21.3	ug/L	106			70 (80)	130 (111)	
	Bromoform	20	21.2	ug/L	106			70 (79)	130 (109)	
	Isopropylbenzene	20	20.6	ug/L	103			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	19.3	ug/L	97			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	19.4	ug/L	97			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	19.5	ug/L	98			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	19.6	ug/L	98			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085917.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0310WBS01	1,2-Dibromo-3-Chloropropane	20	18.1	ug/L	91			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	18.7	ug/L	94			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	18.3	ug/L	92			70 (76)	130 (114)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085918.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0310WBSD01	Dichlorodifluoromethane	20	18.8	ug/L	94	12		40 (69)	160 (116)	20 (20)
	Chloromethane	20	19.1	ug/L	96	10		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	17.4	ug/L	87	13		70 (65)	130 (117)	20 (20)
	Bromomethane	20	16.7	ug/L	84	6		40 (58)	160 (125)	20 (20)
	Chloroethane	20	16.0	ug/L	80	10		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	18.0	ug/L	90	11		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/L	92	8		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	18.4	ug/L	92	10		70 (74)	130 (110)	20 (20)
	Acetone	100	90.0	ug/L	90	20		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	19.7	ug/L	99	11		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	19.7	ug/L	99	8		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	16.5	ug/L	83	2		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	18.5	ug/L	93	10		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	18.4	ug/L	92	9		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	18.6	ug/L	93	11		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	19.1	ug/L	96	13		70 (75)	130 (110)	20 (20)
	2-Butanone	100	100	ug/L	100	10		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	18.7	ug/L	94	10		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	18.1	ug/L	91	9		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	22.8	ug/L	114	8		70 (70)	130 (124)	20 (20)
	Chloroform	20	18.3	ug/L	92	11		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	18.3	ug/L	92	11		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	18.6	ug/L	93	15		70 (72)	130 (115)	20 (20)
	Benzene	20	19.3	ug/L	97	7		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	18.9	ug/L	95	10		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	17.3	ug/L	86	14		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	19.3	ug/L	97	10		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	18.7	ug/L	94	8		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	100	ug/L	100	10		40 (74)	160 (118)	20 (20)
	Toluene	20	19.8	ug/L	99	11		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	19.8	ug/L	99	9		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	19.7	ug/L	99	10		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	18.5	ug/L	93	9		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	100	ug/L	100	18		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	19.1	ug/L	96	8		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	19.4	ug/L	97	7		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	18.5	ug/L	93	11		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	18.1	ug/L	91	10		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	18.9	ug/L	95	11		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	38.8	ug/L	97	14		70 (82)	130 (110)	20 (20)
	o-Xylene	20	19.0	ug/L	95	13		70 (83)	130 (109)	20 (20)
	Styrene	20	18.5	ug/L	93	13		70 (80)	130 (111)	20 (20)
	Bromoform	20	19.0	ug/L	95	11		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	17.8	ug/L	89	15		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	18.0	ug/L	90	7		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	17.6	ug/L	88	10		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	16.9	ug/L	85	14		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	17.3	ug/L	86	13		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085918.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0310WBSD01	1,2-Dibromo-3-Chloropropane	20	17.9	ug/L	90	1		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	16.5	ug/L	83	12		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	17.3	ug/L	86	7		70 (76)	130 (114)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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

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	Dichlorodifluoromethane	20	19.7	ug/L	99			40 (69)	160 (116)	
	Chloromethane	20	18.7	ug/L	94			40 (65)	160 (116)	
	Vinyl chloride	20	17.4	ug/L	87			70 (65)	130 (117)	
	Bromomethane	20	17.0	ug/L	85			40 (58)	160 (125)	
	Chloroethane	20	15.7	ug/L	79			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.0	ug/L	95			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	19.1	ug/L	96			70 (80)	130 (112)	
	1,1-Dichloroethene	20	19.0	ug/L	95			70 (74)	130 (110)	
	Acetone	100	91.4	ug/L	91			40 (60)	160 (125)	
	Carbon disulfide	20	19.7	ug/L	99			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	18.5	ug/L	93			70 (78)	130 (114)	
	Methyl Acetate	20	16.1	ug/L	81			70 (67)	130 (125)	
	Methylene Chloride	20	18.7	ug/L	94			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	18.5	ug/L	93			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.1	ug/L	96			70 (78)	130 (112)	
	Cyclohexane	20	18.7	ug/L	94			70 (75)	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)	
	cis-1,2-Dichloroethene	20	18.0	ug/L	90			70 (77)	130 (110)	
	Bromochloromethane	20	24.1	ug/L	121			70 (70)	130 (124)	
	Chloroform	20	19.1	ug/L	96			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.1	ug/L	96			70 (80)	130 (108)	
	Methylcyclohexane	20	17.7	ug/L	89			70 (72)	130 (115)	
	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)	
	1,2-Dichloropropane	20	19.6	ug/L	98			70 (83)	130 (111)	
	Bromodichloromethane	20	19.3	ug/L	97			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	100	ug/L	100			40 (74)	160 (118)	
	Toluene	20	20.5	ug/L	103			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	19.1	ug/L	96			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	19.3	ug/L	97			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	19.7	ug/L	99			70 (83)	130 (112)	
	2-Hexanone	100	100	ug/L	100			40 (73)	160 (117)	
	Dibromochloromethane	20	19.5	ug/L	98			70 (82)	130 (110)	
	1,2-Dibromoethane	20	19.4	ug/L	97			70 (81)	130 (110)	
	Tetrachloroethene	20	19.1	ug/L	96			70 (67)	130 (123)	
	Chlorobenzene	20	18.5	ug/L	93			70 (82)	130 (109)	
	Ethyl Benzene	20	18.8	ug/L	94			70 (83)	130 (109)	
	m/p-Xylenes	40	40.3	ug/L	101			70 (82)	130 (110)	
	o-Xylene	20	19.0	ug/L	95			70 (83)	130 (109)	
	Styrene	20	19.0	ug/L	95			70 (80)	130 (111)	
	Bromoform	20	19.5	ug/L	98			70 (79)	130 (109)	
	Isopropylbenzene	20	17.4	ug/L	87			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	17.7	ug/L	89			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	17.4	ug/L	87			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	16.8	ug/L	84			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	17.5	ug/L	88			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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

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	1,2-Dibromo-3-Chloropropane	20	15.8	ug/L	79			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	15.3	ug/L	77			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	14.9	ug/L	75			70 (76)	130 (114)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021476.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0311SBS01	Dichlorodifluoromethane	20	17.6	ug/Kg	88			40 (64)	160 (136)	
	Chloromethane	20	19.6	ug/Kg	98			40 (70)	160 (130)	
	Vinyl chloride	20	19.8	ug/Kg	99			70 (72)	130 (129)	
	Bromomethane	20	19.4	ug/Kg	97			40 (58)	160 (141)	
	Chloroethane	20	21.4	ug/Kg	107			40 (69)	160 (130)	
	Trichlorofluoromethane	20	20.8	ug/Kg	104			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	17.6	ug/Kg	88			70 (81)	130 (123)	
	1,1-Dichloroethene	20	18.1	ug/Kg	91			70 (79)	130 (121)	
	Acetone	100	120	ug/Kg	120			40 (60)	160 (131)	
	Carbon disulfide	20	17.6	ug/Kg	88			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	17.2	ug/Kg	86			70 (77)	130 (129)	
	Methyl Acetate	20	18.7	ug/Kg	94			70 (69)	130 (149)	
	Methylene Chloride	20	18.1	ug/Kg	91			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	17.9	ug/Kg	90			70 (80)	130 (123)	
	1,1-Dichloroethane	20	18.6	ug/Kg	93			70 (82)	130 (123)	
	Cyclohexane	20	16.7	ug/Kg	84			70 (76)	130 (122)	
	2-Butanone	100	99.2	ug/Kg	99			40 (69)	160 (131)	
	Carbon Tetrachloride	20	18.0	ug/Kg	90			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	18.2	ug/Kg	91			70 (82)	130 (123)	
	Bromochloromethane	20	19.5	ug/Kg	98			70 (80)	130 (127)	
	Chloroform	20	19.1	ug/Kg	96			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	18.5	ug/Kg	93			70 (80)	130 (126)	
	Methylcyclohexane	20	16.9	ug/Kg	85			70 (77)	130 (123)	
	Benzene	20	18.3	ug/Kg	92			70 (84)	130 (121)	
	1,2-Dichloroethane	20	17.9	ug/Kg	90			70 (81)	130 (126)	
	Trichloroethene	20	18.6	ug/Kg	93			70 (83)	130 (122)	
	1,2-Dichloropropane	20	18.2	ug/Kg	91			70 (83)	130 (122)	
	Bromodichloromethane	20	18.6	ug/Kg	93			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	87.8	ug/Kg	88			40 (70)	160 (135)	
	Toluene	20	18.2	ug/Kg	91			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	18.1	ug/Kg	91			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	18.0	ug/Kg	90			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	18.4	ug/Kg	92			70 (82)	130 (125)	
	2-Hexanone	100	97.6	ug/Kg	98			40 (66)	160 (138)	
	Dibromochloromethane	20	18.0	ug/Kg	90			70 (79)	130 (125)	
	1,2-Dibromoethane	20	17.9	ug/Kg	90			70 (80)	130 (125)	
	Tetrachloroethene	20	19.5	ug/Kg	98			70 (83)	130 (125)	
	Chlorobenzene	20	17.9	ug/Kg	90			70 (84)	130 (122)	
	Ethyl Benzene	20	17.5	ug/Kg	88			70 (82)	130 (124)	
	m/p-Xylenes	40	36.0	ug/Kg	90			70 (83)	130 (124)	
	o-Xylene	20	17.5	ug/Kg	88			70 (83)	130 (123)	
	Styrene	20	17.8	ug/Kg	89			70 (82)	130 (124)	
	Bromoform	20	17.8	ug/Kg	89			70 (75)	130 (127)	
	Isopropylbenzene	20	17.1	ug/Kg	86			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	16.6	ug/Kg	83			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	17.5	ug/Kg	88			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	17.8	ug/Kg	89			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	17.7	ug/Kg	89			70 (83)	130 (124)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021476.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0311SBS01	1,2-Dibromo-3-Chloropropane	20	17.2	ug/Kg	86			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.2	ug/Kg	91			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.0	ug/Kg	90			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021477.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0311SBSD01	Dichlorodifluoromethane	20	20.4	ug/Kg	102	15		40 (64)	160 (136)	30 (20)
	Chloromethane	20	21.6	ug/Kg	108	10		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	23.2	ug/Kg	116	16		70 (72)	130 (129)	30 (20)
	Bromomethane	20	21.7	ug/Kg	109	12		40 (58)	160 (141)	30 (20)
	Chloroethane	20	23.4	ug/Kg	117	9		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	22.4	ug/Kg	112	7		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.4	ug/Kg	107	19		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	21.3	ug/Kg	106	15		70 (79)	130 (121)	30 (20)
	Acetone	100	130	ug/Kg	130	8		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	20.1	ug/Kg	101	14		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	21.4	ug/Kg	107	22		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	24.7	ug/Kg	124	28		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	21.2	ug/Kg	106	15		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.1	ug/Kg	101	12		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.0	ug/Kg	105	12		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	19.3	ug/Kg	97	14		70 (76)	130 (122)	30 (20)
	2-Butanone	100	120	ug/Kg	120	19		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.6	ug/Kg	103	13		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.9	ug/Kg	104	13		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	21.9	ug/Kg	110	12		70 (80)	130 (127)	30 (20)
	Chloroform	20	21.6	ug/Kg	108	12		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104	11		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.6	ug/Kg	98	14		70 (77)	130 (123)	30 (20)
	Benzene	20	20.9	ug/Kg	104	12		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	21.8	ug/Kg	109	19		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.8	ug/Kg	104	11		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	21.8	ug/Kg	109	18		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	21.0	ug/Kg	105	12		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	22		40 (70)	160 (135)	30 (20)
	Toluene	20	21.0	ug/Kg	105	14		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	21.5	ug/Kg	108	17		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	21.1	ug/Kg	106	16		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	21.7	ug/Kg	109	17		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	120	ug/Kg	120	20		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	21.8	ug/Kg	109	19		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	21.7	ug/Kg	109	19		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	21.7	ug/Kg	109	11		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.5	ug/Kg	103	13		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.9	ug/Kg	100	13		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	40.5	ug/Kg	101	12		70 (83)	130 (124)	30 (20)
	o-Xylene	20	20.1	ug/Kg	101	14		70 (83)	130 (123)	30 (20)
	Styrene	20	20.6	ug/Kg	103	15		70 (82)	130 (124)	30 (20)
	Bromoform	20	21.3	ug/Kg	106	17		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.2	ug/Kg	96	11		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	20.0	ug/Kg	100	19		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.1	ug/Kg	101	14		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	20.4	ug/Kg	102	14		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	20.6	ug/Kg	103	15		70 (83)	130 (124)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021477.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0311SBSD01	1,2-Dibromo-3-Chloropropane	20	21.0	ug/Kg	105	20		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	21.0	ug/Kg	105	14		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	21.2	ug/Kg	106	16		70 (70)	130 (137)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0310WBL01

Lab Name: CHEMTECH Contract: PORT06

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

Lab File ID: VN085916.D Lab Sample ID: VN0310WBL01

Date Analyzed: 03/10/2025 Time Analyzed: 13:22

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
VN0310WBS01	VN0310WBS01	VN085917.D	03/10/2025
VN0310WBSD01	VN0310WBSD01	VN085918.D	03/10/2025
ENV-105-GW01	Q1514-07	VN085919.D	03/10/2025
ENV-103-GW01	Q1514-08	VN085920.D	03/10/2025
TB03062025	Q1514-10	VN085922.D	03/10/2025

COMMENTS:

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

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
FB03062025	Q1514-09	VN085934.D	03/11/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0311SBL01

Lab Name: CHEMTECH Contract: PORT06

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

Lab File ID: VY021475.D Lab Sample ID: VY0311SBL01

Date Analyzed: 03/11/2025 Time Analyzed: 10:12

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

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0311SBS01	VY0311SBS01	VY021476.D	03/11/2025
VY0311SBSD01	VY0311SBSD01	VY021477.D	03/11/2025
ENV-103-SB01	Q1514-05	VY021480.D	03/11/2025
ENV-105-SB02	Q1514-03	VY021481.D	03/11/2025
ENV-105-SB01	Q1514-01	VY021482.D	03/11/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: 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

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

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

Lab File ID: VN085913.D BFB Injection Date: 03/10/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:54

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	16.3
75	30.0 - 60.0% of mass 95	48.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	76.4
175	5.0 - 9.0% of mass 174	6.7 (8.8) 1
176	95.0 - 101.0% of mass 174	76.4 (100.1) 1
177	5.0 - 9.0% of mass 176	5.6 (7.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN085914.D	03/10/2025	12:21
VN0310WBL01	VN0310WBL01	VN085916.D	03/10/2025	13:22
VN0310WBS01	VN0310WBS01	VN085917.D	03/10/2025	16:12
VN0310WBSD01	VN0310WBSD01	VN085918.D	03/10/2025	16:47
ENV-105-GW01	Q1514-07	VN085919.D	03/10/2025	17:11
ENV-103-GW01	Q1514-08	VN085920.D	03/10/2025	17:35
TB03062025	Q1514-10	VN085922.D	03/10/2025	18:23

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: 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
FB03062025	Q1514-09	VN085934.D	03/11/2025	16:16

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

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

Lab File ID: VY021395.D BFB Injection Date: 03/04/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:52

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.6
75	30.0 - 60.0% of mass 95	54.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	77.8
175	5.0 - 9.0% of mass 174	6.6 (8.4) 1
176	95.0 - 101.0% of mass 174	75.7 (97.2) 1
177	5.0 - 9.0% of mass 176	5 (6.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC010	VSTDICC010	VY021397.D	03/04/2025	09:46
VSTDICC020	VSTDICC020	VY021398.D	03/04/2025	10:09
VSTDICCC050	VSTDICCC050	VY021399.D	03/04/2025	10:30
VSTDICC100	VSTDICC100	VY021400.D	03/04/2025	11:06
VSTDICC150	VSTDICC150	VY021401.D	03/04/2025	11:29
VSTDICC005	VSTDICC005	VY021403.D	03/04/2025	12:15

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

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

Lab File ID: VY021473.D BFB Injection Date: 03/11/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:00

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	53
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	84.5
175	5.0 - 9.0% of mass 174	6.4 (7.6) 1
176	95.0 - 101.0% of mass 174	80.4 (95.2) 1
177	5.0 - 9.0% of mass 176	5.4 (6.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021474.D	03/11/2025	09:42
VY0311SBL01	VY0311SBL01	VY021475.D	03/11/2025	10:12
VY0311SBS01	VY0311SBS01	VY021476.D	03/11/2025	11:03
VY0311SBSD01	VY0311SBSD01	VY021477.D	03/11/2025	11:26
ENV-103-SB01	Q1514-05	VY021480.D	03/11/2025	12:48
ENV-105-SB02	Q1514-03	VY021481.D	03/11/2025	13:11
ENV-105-SB01	Q1514-01	VY021482.D	03/11/2025	13:35

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

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: VN085914.D Date Analyzed: 03/10/2025

Instrument ID: MSVOA_N Time Analyzed: 12:21

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	199203	8.22	319135	9.10	288321	11.87
UPPER LIMIT	398406	8.724	638270	9.6	576642	12.365
LOWER LIMIT	99601.5	7.724	159568	8.6	144161	11.365
EPA SAMPLE NO.						
ENV-105-GW01	180602	8.22	336697	9.10	290159	11.87
ENV-103-GW01	199177	8.22	373736	9.10	326066	11.87
TB03062025	185446	8.22	343862	9.10	305300	11.87
VN0310WBL01	185188	8.22	337149	9.10	297684	11.87
VN0310WBS01	200845	8.22	334623	9.10	292041	11.87
VN0310WBSD01	183155	8.22	304090	9.10	267080	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.

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

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: VN085914.D Date Analyzed: 03/10/2025

Instrument ID: MSVOA_N Time Analyzed: 12:21

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

	IS4 AREA #	RT #				
12 HOUR STD	156195	13.788				
UPPER LIMIT	312390	14.288				
LOWER LIMIT	78097.5	13.288				
EPA SAMPLE NO.						
ENV-105-GW01	119785	13.79				
ENV-103-GW01	130206	13.79				
TB03062025	121043	13.79				
VN0310WBL01	112686	13.79				
VN0310WBS01	146257	13.79				
VN0310WBSD01	130620	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.

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

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.						
FB03062025	176702	8.22	336260	9.10	299219	11.87
VN0311WBL01	166099	8.22	319285	9.10	277562	11.87
VN0311WBS01	171959	8.22	282309	9.10	250243	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.

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

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.						
FB03062025	119405	13.79				
VN0311WBL01	106492	13.79				
VN0311WBS01	128349	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.

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

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: VY021474.D Date Analyzed: 03/11/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:42

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	243763	7.71	363423	8.62	331214	11.42
UPPER LIMIT	487526	8.207	726846	9.116	662428	11.92
LOWER LIMIT	121882	7.207	181712	8.116	165607	10.92
EPA SAMPLE NO.						
ENV-105-SB01	310817	7.71	561377	8.62	429027	11.41
ENV-105-SB02	269495	7.71	487605	8.62	426245	11.41
ENV-103-SB01	233794	7.71	402762	8.62	340384	11.41
VY0311SBL01	266206	7.71	468026	8.62	406786	11.41
VY0311SBS01	225793	7.71	350967	8.61	312829	11.41
VY0311SBSD01	205814	7.71	320893	8.62	289092	11.41

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.

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

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: VY021474.D Date Analyzed: 03/11/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:42

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

	IS4 AREA #	RT #				
12 HOUR STD	170654	13.346				
UPPER LIMIT	341308	13.846				
LOWER LIMIT	85327	12.846				
EPA SAMPLE NO.						
ENV-105-SB01	159534	13.35				
ENV-105-SB02	159684	13.35				
ENV-103-SB01	126386	13.35				
VY0311SBL01	157191	13.35				
VY0311SBS01	162394	13.35				
VY0311SBSD01	150821	13.35				

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: **VN085916.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:	VN0310WBL01	SDG No.:	Q1514
Lab Sample ID:	VN0310WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085916.D	1		03/10/25 13:22	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	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
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	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
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Raw Data: **VN085916.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:	VN0310WBL01	SDG No.:	Q1514
Lab Sample ID:	VN0310WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085916.D	1		03/10/25 13:22	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	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
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.6		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	46.9		70 (86) - 130 (113)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		70 (77) - 130 (121)	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	8.224			
540-36-3	1,4-Difluorobenzene	337000	9.1			
3114-55-4	Chlorobenzene-d5	298000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	113000	13.788			

Raw Data: **VN085916.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:	VN0310WBL01	SDG No.:	Q1514
Lab Sample ID:	VN0310WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085916.D	1		03/10/25 13:22	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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: **VN085930.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:	VN0311WBL01	SDG No.:	Q1514
Lab Sample ID:	VN0311WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
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						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	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
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	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
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

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:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
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
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	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
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	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			

Raw Data: **VN085930.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:	VN0311WBL01	SDG No.:	Q1514
Lab Sample ID:	VN0311WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
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

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0311SBL01	SDG No.:	Q1514
Lab Sample ID:	VY0311SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021475.D	1		03/11/25 10:12	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

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:	VY0311SBL01	SDG No.:	Q1514
Lab Sample ID:	VY0311SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021475.D	1		03/11/25 10:12	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.3		70 (63) - 130 (155)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 (70) - 130 (134)	101%	SPK: 50
2037-26-5	Toluene-d8	48.5		70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.5		70 (38) - 130 (136)	85%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	266000	7.707			
540-36-3	1,4-Difluorobenzene	468000	8.616			
3114-55-4	Chlorobenzene-d5	407000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	157000	13.346			

Raw Data: **VY021475.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:	VY0311SBL01	SDG No.:	Q1514
Lab Sample ID:	VY0311SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021475.D	1		03/11/25 10:12	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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: **VN085917.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:	VN0310WBS01	SDG No.:	Q1514
Lab Sample ID:	VN0310WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085917.D	1		03/10/25 16:12	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	21.1		0.21	1.00	ug/L
74-87-3	Chloromethane	21.1		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.7		0.34	1.00	ug/L
74-83-9	Bromomethane	17.8		1.40	5.00	ug/L
75-00-3	Chloroethane	17.5		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.9		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.4		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	22.1		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	16.9		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.5		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.2		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	21.8		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.0		0.25	1.00	ug/L
74-97-5	Bromochloromethane	24.8		0.18	1.00	ug/L
67-66-3	Chloroform	20.6		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.5		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	21.5		0.19	1.00	ug/L
71-43-2	Benzene	20.9		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.0		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.4		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.4		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	21.9		0.18	1.00	ug/L

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:	VN0310WBS01	SDG No.:	Q1514
Lab Sample ID:	VN0310WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085917.D	1		03/10/25 16:12	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	21.6		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.7		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.3		0.21	1.00	ug/L
591-78-6	2-Hexanone	120		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	20.8		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.7		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	20.9		0.25	1.00	ug/L
108-90-7	Chlorobenzene	20.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.2		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	44.9		0.31	2.00	ug/L
95-47-6	o-Xylene	21.6		0.14	1.00	ug/L
100-42-5	Styrene	21.3		0.16	1.00	ug/L
75-25-2	Bromoform	21.2		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	20.6		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.3		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.4		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.6		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.1		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.7		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.3		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.4		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	201000	8.218			
540-36-3	1,4-Difluorobenzene	335000	9.1			
3114-55-4	Chlorobenzene-d5	292000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.788			

Raw Data: **VN085917.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:	VN0310WBS01	SDG No.:	Q1514
Lab Sample ID:	VN0310WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085917.D	1		03/10/25 16:12	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
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						
75-71-8	Dichlorodifluoromethane	19.7		0.21	1.00	ug/L
74-87-3	Chloromethane	18.7		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	17.4		0.34	1.00	ug/L
74-83-9	Bromomethane	17.0		1.40	5.00	ug/L
75-00-3	Chloroethane	15.7		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.0		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.1		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.0		0.26	1.00	ug/L
67-64-1	Acetone	91.4		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	19.7		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.5		0.16	1.00	ug/L
79-20-9	Methyl Acetate	16.1		0.60	1.00	ug/L
75-09-2	Methylene Chloride	18.7		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.5		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.1		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.7		1.60	5.00	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
156-59-2	cis-1,2-Dichloroethene	18.0		0.25	1.00	ug/L
74-97-5	Bromochloromethane	24.1		0.18	1.00	ug/L
67-66-3	Chloroform	19.1		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.1		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.7		0.19	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
78-87-5	1,2-Dichloropropane	19.6		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	19.3		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	20.5		0.18	1.00	ug/L

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:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
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
10061-02-6	t-1,3-Dichloropropene	19.1		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.3		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.7		0.21	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.5		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.4		0.16	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
100-41-4	Ethyl Benzene	18.8		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	40.3		0.31	2.00	ug/L
95-47-6	o-Xylene	19.0		0.14	1.00	ug/L
100-42-5	Styrene	19.0		0.16	1.00	ug/L
75-25-2	Bromoform	19.5		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	17.4		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.7		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.4		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.8		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	15.8		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	15.3		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	14.9		0.51	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			

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:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
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

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0311SBS01	SDG No.:	Q1514
Lab Sample ID:	VY0311SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021476.D	1		03/11/25 11:03	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	17.6		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.6		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.4		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.4		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.8		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	17.6		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.1		0.78	5.00	ug/Kg
67-64-1	Acetone	120		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.6		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	17.2		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.7		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	18.1		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	16.7		0.69	5.00	ug/Kg
78-93-3	2-Butanone	99.2		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	18.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	18.2		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.5		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	18.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	16.9		0.87	5.00	ug/Kg
71-43-2	Benzene	18.3		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	17.9		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	18.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	18.2		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	18.6		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	87.8		4.40	25.0	ug/Kg
108-88-3	Toluene	18.2		0.67	5.00	ug/Kg

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:	VY0311SBS01	SDG No.:	Q1514
Lab Sample ID:	VY0311SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021476.D	1		03/11/25 11:03	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.1		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	18.0		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	18.4		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	97.6		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	18.0		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	17.9		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	17.9		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	17.5		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	36.0		1.40	10.0	ug/Kg
95-47-6	o-Xylene	17.5		0.70	5.00	ug/Kg
100-42-5	Styrene	17.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	17.8		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	17.1		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	16.6		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.5		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	17.8		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	17.7		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.2		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.2		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.0		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.4		70 (63) - 130 (155)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		70 (70) - 130 (134)	106%	SPK: 50
2037-26-5	Toluene-d8	52.2		70 (74) - 130 (123)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		70 (38) - 130 (136)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	226000	7.707			
540-36-3	1,4-Difluorobenzene	351000	8.609			
3114-55-4	Chlorobenzene-d5	313000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	162000	13.346			

Raw Data: **VY021476.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:	VY0311SBS01	SDG No.:	Q1514
Lab Sample ID:	VY0311SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021476.D	1		03/11/25 11:03	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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: **VN085918.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:	VN0310WBSD01	SDG No.:	Q1514
Lab Sample ID:	VN0310WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085918.D	1		03/10/25 16:47	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.8		0.21	1.00	ug/L
74-87-3	Chloromethane	19.1		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	17.4		0.34	1.00	ug/L
74-83-9	Bromomethane	16.7		1.40	5.00	ug/L
75-00-3	Chloroethane	16.0		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.0		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.4		0.26	1.00	ug/L
67-64-1	Acetone	90.0		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	19.7		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.7		0.16	1.00	ug/L
79-20-9	Methyl Acetate	16.5		0.60	1.00	ug/L
75-09-2	Methylene Chloride	18.5		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.4		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.1		1.60	5.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.7		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.1		0.25	1.00	ug/L
74-97-5	Bromochloromethane	22.8		0.18	1.00	ug/L
67-66-3	Chloroform	18.3		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.3		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.6		0.19	1.00	ug/L
71-43-2	Benzene	19.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.3		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.3		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	18.7		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	19.8		0.18	1.00	ug/L

Raw Data: **VN085918.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:	VN0310WBSD01	SDG No.:	Q1514
Lab Sample ID:	VN0310WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085918.D	1		03/10/25 16:47	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.8		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.7		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.5		0.21	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	19.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.4		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	18.5		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.9		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	38.8		0.31	2.00	ug/L
95-47-6	o-Xylene	19.0		0.14	1.00	ug/L
100-42-5	Styrene	18.5		0.16	1.00	ug/L
75-25-2	Bromoform	19.0		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	17.8		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.0		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.6		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.9		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.3		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.9		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.5		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.3		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.9		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		70 (75) - 130 (124)	94%	SPK: 50
2037-26-5	Toluene-d8	46.9		70 (86) - 130 (113)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		70 (77) - 130 (121)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	183000	8.224			
540-36-3	1,4-Difluorobenzene	304000	9.1			
3114-55-4	Chlorobenzene-d5	267000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	131000	13.788			

Raw Data: **VN085918.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:	VN0310WBSD01	SDG No.:	Q1514
Lab Sample ID:	VN0310WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085918.D	1		03/10/25 16:47	VN031025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0311SBSD01	SDG No.:	Q1514
Lab Sample ID:	VY0311SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021477.D	1		03/11/25 11:26	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.4		1.70	5.00	ug/Kg
74-87-3	Chloromethane	21.6		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	23.2		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.7		1.00	5.00	ug/Kg
75-00-3	Chloroethane	23.4		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.4		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.3		0.78	5.00	ug/Kg
67-64-1	Acetone	130		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.1		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.4		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	24.7		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	21.2		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.1		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.0		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.3		0.69	5.00	ug/Kg
78-93-3	2-Butanone	120		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.6		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	21.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.6		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.8		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.6		0.87	5.00	ug/Kg
71-43-2	Benzene	20.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.8		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.8		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.8		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.0		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	21.0		0.67	5.00	ug/Kg

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:	VY0311SBSD01	SDG No.:	Q1514
Lab Sample ID:	VY0311SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021477.D	1		03/11/25 11:26	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	21.5		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.1		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.7		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	120		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	21.7		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.7		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.5		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.9		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.5		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.1		0.70	5.00	ug/Kg
100-42-5	Styrene	20.6		0.60	5.00	ug/Kg
75-25-2	Bromoform	21.3		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.2		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.0		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.1		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.4		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.0		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	21.0		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.2		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.4		70 (63) - 130 (155)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	53.0		70 (70) - 130 (134)	106%	SPK: 50
2037-26-5	Toluene-d8	52.2		70 (74) - 130 (123)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		70 (38) - 130 (136)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	206000	7.707			
540-36-3	1,4-Difluorobenzene	321000	8.615			
3114-55-4	Chlorobenzene-d5	289000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.346			

Raw Data: **VY021477.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:	VY0311SBSD01	SDG No.:	Q1514
Lab Sample ID:	VY0311SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021477.D	1		03/11/25 11:26	vy031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

Alliance TECHNICAL GROUP
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
Dichlorodifluoromethane	0.694	0.669	0.779	0.650	0.660	0.628	0.680	7.8
Chloromethane	0.647	0.622	0.742	0.662	0.817	0.604	0.682	11.9
Vinyl Chloride	0.698	0.678	0.796	0.729	0.761	0.674	0.723	6.7
Bromomethane	0.434	0.424	0.543	0.496		0.413	0.462	12.1
Chloroethane	0.447	0.417	0.516	0.470	0.584	0.438	0.479	12.9
Trichlorofluoromethane	1.010	0.959	1.134	1.065	1.103	1.006	1.046	6.3
1,1,2-Trichlorotrifluoroethane	0.602	0.564	0.674	0.635	0.554	0.599	0.605	7.4
1,1-Dichloroethene	0.555	0.527	0.591	0.571	0.514	0.531	0.548	5.3
Acetone	0.195	0.184	0.217	0.208	0.227	0.198	0.205	7.7
Carbon Disulfide	1.565	1.473	1.804	1.604	1.848	1.455	1.625	10.2
Methyl tert-butyl Ether	1.747	1.658	1.714	1.560	1.438	1.659	1.629	7
Methyl Acetate	0.653	0.619	0.794	0.690	0.853	0.625	0.705	13.7
Methylene Chloride	0.628	0.593	0.710	0.666	0.736	0.625	0.660	8.3
trans-1,2-Dichloroethene	0.585	0.549	0.621	0.599	0.623	0.566	0.590	5.1
1,1-Dichloroethane	1.097	1.035	1.216	1.125	1.073	1.089	1.106	5.6
Cyclohexane	0.878	0.860	0.977	1.056		0.858	0.926	9.5
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
cis-1,2-Dichloroethene	0.705	0.661	0.740	0.685	0.646	0.671	0.685	4.9
Bromochloromethane	0.481	0.444	0.346	0.570	0.483	0.402	0.454	17
Chloroform	1.120	1.070	1.269	1.164	1.171	1.141	1.156	5.7
1,1,1-Trichloroethane	1.012	0.967	1.089	1.058	1.030	1.012	1.028	4.1
Methylcyclohexane	0.560	0.492	0.446	0.405	0.373	0.453	0.455	14.5
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
1,2-Dichloropropane	0.377	0.347	0.385	0.344	0.339	0.357	0.358	5.2
Bromodichloromethane	0.569	0.518	0.571	0.533	0.512	0.541	0.541	4.6
4-Methyl-2-Pentanone	0.414	0.379	0.392	0.342	0.290	0.388	0.367	12.1
Toluene	0.993	0.902	0.924	0.820	0.689	0.891	0.870	12

* 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 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
t-1,3-Dichloropropene	0.576	0.521	0.518	0.471	0.408	0.505	0.500	11.3
cis-1,3-Dichloropropene	0.626	0.566	0.582	0.513	0.442	0.559	0.548	11.6
1,1,2-Trichloroethane	0.361	0.331	0.370	0.346	0.324	0.344	0.346	5
2-Hexanone	0.296	0.273	0.266	0.227	0.184	0.270	0.253	16
Dibromochloromethane	0.440	0.402	0.431	0.384	0.355	0.405	0.403	7.7
1,2-Dibromoethane	0.354	0.322	0.362	0.320	0.273	0.330	0.327	9.7
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
Ethyl Benzene	2.105	1.904	1.830	1.665	1.424	1.838	1.794	12.8
m/p-Xylenes	0.809	0.741	0.725	0.610	0.481	0.722	0.682	17.2
o-Xylene	0.771	0.704	0.666	0.584	0.502	0.659	0.648	14.5
Styrene	1.327	1.203	1.060	0.885	0.744	1.133	1.059	20.2
Bromoform	0.327	0.303	0.322	0.301	0.274	0.309	0.306	6.2
Isopropylbenzene	3.851	3.596	3.623	3.067	2.933	3.484	3.425	10.3
1,1,2,2-Tetrachloroethane	1.073	1.053	1.304	1.218	1.271	1.154	1.179	8.8
1,3-Dichlorobenzene	1.772	1.635	1.876	1.697	1.748	1.675	1.734	4.9
1,4-Dichlorobenzene	1.750	1.647	1.884	1.777	1.921	1.684	1.777	6.1
1,2-Dichlorobenzene	1.660	1.574	1.768	1.642	1.744	1.617	1.667	4.5
1,2-Dibromo-3-Chloropropane	0.198	0.193	0.238	0.222	0.256	0.191	0.216	12.4
1,2,4-Trichlorobenzene	0.877	0.802	0.827	0.728	0.829	0.704	0.794	8.3
1,2,3-Trichlorobenzene	0.825	0.789	0.844	0.736	0.917	0.675	0.798	10.6
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 ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

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

Instrument ID: MSVOA_Y Calibration Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 12:15

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

LAB FILE ID: RRF010 = VY021397.D RRF020 = VY021398.D RRF050 = VY021399.D
RRF100 = VY021400.D RRF150 = VY021401.D RRF005 = VY021403.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.493	0.416	0.447	0.440	0.429	0.529	0.459	9.4
Chloromethane	0.694	0.588	0.617	0.608	0.580	0.793	0.647	12.7
Vinyl Chloride	0.762	0.639	0.691	0.706	0.665	0.778	0.707	7.7
Bromomethane	0.555	0.450	0.468	0.483	0.468	0.641	0.511	14.4
Chloroethane	0.505	0.427	0.460	0.458	0.432	0.521	0.467	8.2
Trichlorofluoromethane	1.050	0.896	0.967	0.963	0.935	1.109	0.987	8
1,1,2-Trichlorotrifluoroethane	0.600	0.507	0.538	0.542	0.525	0.668	0.563	10.7
1,1-Dichloroethene	0.542	0.460	0.506	0.512	0.494	0.566	0.514	7.2
Acetone	0.124	0.091	0.134	0.103	0.095	0.144	0.115	18.9
Carbon Disulfide	1.705	1.425	1.631	1.618	1.546	1.732	1.610	7
Methyl tert-butyl Ether	1.290	1.177	1.366	1.299	1.315	1.364	1.302	5.3
Methyl Acetate	0.253	0.227	0.284	0.245	0.257	0.268	0.256	7.6
Methylene Chloride	0.717	0.538	0.552	0.530	0.507	0.788	0.605	19.4
trans-1,2-Dichloroethene	0.608	0.516	0.564	0.570	0.545	0.648	0.575	8.1
1,1-Dichloroethane	1.124	0.955	1.050	1.035	0.991	1.179	1.056	7.9
Cyclohexane	1.039	0.885	0.941	0.943	0.914	1.216	0.990	12.4
2-Butanone	0.160	0.136	0.181	0.149	0.151	0.180	0.159	11.2
Carbon Tetrachloride	0.627	0.538	0.587	0.595	0.579	0.625	0.592	5.6
cis-1,2-Dichloroethene	0.675	0.592	0.654	0.658	0.639	0.702	0.653	5.6
Bromochloromethane	0.481	0.423	0.467	0.426	0.380	0.478	0.443	9
Chloroform	1.181	0.992	1.087	1.066	1.029	1.222	1.096	8.1
1,1,1-Trichloroethane	1.063	0.894	0.978	0.983	0.953	1.151	1.004	9
Methylcyclohexane	0.595	0.550	0.651	0.680	0.669	0.641	0.631	7.8
Benzene	1.554	1.366	1.542	1.540	1.473	1.618	1.515	5.7
1,2-Dichloroethane	0.446	0.386	0.436	0.414	0.408	0.453	0.424	6.1
Trichloroethene	0.390	0.349	0.381	0.384	0.378	0.415	0.383	5.5
1,2-Dichloropropane	0.371	0.333	0.368	0.358	0.347	0.388	0.361	5.3
Bromodichloromethane	0.550	0.485	0.548	0.535	0.521	0.559	0.533	5
4-Methyl-2-Pentanone	0.210	0.202	0.263	0.230	0.243	0.219	0.228	9.9
Toluene	0.952	0.853	0.988	0.997	0.958	0.983	0.955	5.6

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

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_Y Calibration Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 12:15

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

LAB FILE ID: RRF010 = VY021397.D RRF020 = VY021398.D RRF050 = VY021399.D
RRF100 = VY021400.D RRF150 = VY021401.D RRF005 = VY021403.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.447	0.420	0.499	0.495	0.495	0.461	0.470	6.8
cis-1,3-Dichloropropene	0.544	0.498	0.587	0.579	0.566	0.570	0.557	5.8
1,1,2-Trichloroethane	0.264	0.237	0.283	0.259	0.257	0.274	0.263	6
2-Hexanone	0.135	0.129	0.182	0.156	0.163	0.139	0.151	13.1
Dibromochloromethane	0.358	0.327	0.376	0.363	0.361	0.374	0.360	4.9
1,2-Dibromoethane	0.246	0.226	0.262	0.248	0.247	0.258	0.248	5.1
Tetrachloroethene	0.418	0.370	0.403	0.407	0.393	0.449	0.407	6.5
Chlorobenzene	1.194	1.065	1.186	1.192	1.165	1.283	1.181	5.9
Ethyl Benzene	2.005	1.825	2.135	2.209	2.146	2.115	2.072	6.7
m/p-Xylenes	0.761	0.705	0.822	0.833	0.803	0.797	0.787	6
o-Xylene	0.700	0.635	0.759	0.779	0.754	0.723	0.725	7.2
Styrene	1.133	1.084	1.277	1.306	1.267	1.151	1.203	7.6
Bromoform	0.227	0.213	0.250	0.237	0.238	0.235	0.233	5.3
Isopropylbenzene	3.797	3.468	4.034	4.231	4.124	3.977	3.939	6.9
1,1,2,2-Tetrachloroethane	0.712	0.637	0.727	0.667	0.690	0.737	0.695	5.4
1,3-Dichlorobenzene	1.861	1.640	1.812	1.840	1.822	2.031	1.834	6.8
1,4-Dichlorobenzene	1.820	1.624	1.782	1.783	1.764	1.989	1.794	6.5
1,2-Dichlorobenzene	1.561	1.431	1.588	1.568	1.560	1.723	1.572	5.9
1,2-Dibromo-3-Chloropropane	0.101	0.092	0.108	0.098	0.108	0.117	0.104	8.3
1,2,4-Trichlorobenzene	0.723	0.735	0.908	0.926	0.994	0.864	0.859	12.7
1,2,3-Trichlorobenzene	0.604	0.614	0.775	0.771	0.835	0.734	0.722	13
1,2-Dichloroethane-d4	0.580	0.514	0.482	0.511	0.477	0.606	0.528	10
Dibromofluoromethane	0.348	0.315	0.296	0.332	0.311	0.371	0.329	8.3
Toluene-d8	1.276	1.179	1.135	1.289	1.203	1.384	1.244	7.2
4-Bromofluorobenzene	0.424	0.394	0.386	0.433	0.405	0.498	0.423	9.6

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

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

Instrument ID: MSVOA_N Calibration Date/Time: 03/10/2025 12:21

Lab File ID: VN085914.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
Dichlorodifluoromethane	0.680	0.774		13.82	20
Chloromethane	0.682	0.791	0.1	15.98	20
Vinyl Chloride	0.723	0.788		8.99	20
Bromomethane	0.462	0.430		-6.93	20
Chloroethane	0.479	0.437		-8.77	20
Trichlorofluoromethane	1.046	1.082		3.44	20
1,1,2-Trichlorotrifluoroethane	0.605	0.627		3.64	20
1,1-Dichloroethene	0.548	0.584		6.57	20
Acetone	0.205	0.243		18.54	20
Carbon Disulfide	1.625	1.855		14.15	20
Methyl tert-butyl Ether	1.629	1.871		14.86	20
Methyl Acetate	0.705	0.645		-8.51	20
Methylene Chloride	0.660	0.679		2.88	20
trans-1,2-Dichloroethene	0.590	0.628		6.44	20
1,1-Dichloroethane	1.106	1.175	0.1	6.24	20
Cyclohexane	0.926	1.029		11.12	20
2-Butanone	0.302	0.375		24.17	20
Carbon Tetrachloride	0.550	0.609		10.73	20
cis-1,2-Dichloroethene	0.685	0.723		5.55	20
Bromochloromethane	0.454	0.540		18.94	20
Chloroform	1.156	1.197		3.55	20
1,1,1-Trichloroethane	1.028	1.086		5.64	20
Methylcyclohexane	0.455	0.559		22.86	20
Benzene	1.484	1.679		13.14	20
1,2-Dichloroethane	0.483	0.546		13.04	20
Trichloroethene	0.364	0.384		5.49	20
1,2-Dichloropropane	0.358	0.417		16.48	20
Bromodichloromethane	0.541	0.598		10.54	20
4-Methyl-2-Pentanone	0.367	0.490		33.51	20
Toluene	0.870	1.062		22.07	20
t-1,3-Dichloropropene	0.500	0.606		21.2	20
cis-1,3-Dichloropropene	0.548	0.656		19.71	20
1,1,2-Trichloroethane	0.346	0.382		10.4	20
2-Hexanone	0.253	0.363		43.48	20
Dibromochloromethane	0.403	0.469		16.38	20
1,2-Dibromoethane	0.327	0.386		18.04	20
Tetrachloroethene	0.387	0.411		6.2	20
Chlorobenzene	1.145	1.237	0.3	8.03	20

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: 03/10/2025 12:21

Lab File ID: VN085914.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
Ethyl Benzene	1.794	2.144		19.51	20
m/p-Xylenes	0.682	0.863		26.54	20
o-Xylene	0.648	0.796		22.84	20
Styrene	1.059	1.380		30.31	20
Bromoform	0.306	0.356	0.1	16.34	20
Isopropylbenzene	3.425	3.710		8.32	20
1,1,2,2-Tetrachloroethane	1.179	1.159	0.3	-1.7	20
1,3-Dichlorobenzene	1.734	1.779		2.6	20
1,4-Dichlorobenzene	1.777	1.765		-0.68	20
1,2-Dichlorobenzene	1.667	1.692		1.5	20
1,2-Dibromo-3-Chloropropane	0.216	0.223		3.24	20
1,2,4-Trichlorobenzene	0.794	0.834		5.04	20
1,2,3-Trichlorobenzene	0.798	0.815		2.13	20
1,2-Dichloroethane-d4	0.648	0.628		-3.09	20
Dibromofluoromethane	0.327	0.328		0.31	20
Toluene-d8	1.190	1.216		2.18	20
4-Bromofluorobenzene	0.392	0.455		16.07	20

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
Dichlorodifluoromethane	0.680	0.770		13.23	20
Chloromethane	0.682	0.739	0.1	8.36	20
Vinyl Chloride	0.723	0.746		3.18	20
Bromomethane	0.462	0.424		-8.23	20
Chloroethane	0.479	0.422		-11.9	20
Trichlorofluoromethane	1.046	1.090		4.21	20
1,1,2-Trichlorotrifluoroethane	0.605	0.640		5.78	20
1,1-Dichloroethene	0.548	0.594		8.39	20
Acetone	0.205	0.227		10.73	20
Carbon Disulfide	1.625	1.805		11.08	20
Methyl tert-butyl Ether	1.629	1.855		13.87	20
Methyl Acetate	0.705	0.620		-12.06	20
Methylene Chloride	0.660	0.672		1.82	20
trans-1,2-Dichloroethene	0.590	0.643		8.98	20
1,1-Dichloroethane	1.106	1.180	0.1	6.69	20
Cyclohexane	0.926	1.033		11.56	20
2-Butanone	0.302	0.338		11.92	20
Carbon Tetrachloride	0.550	0.625		13.64	20
cis-1,2-Dichloroethene	0.685	0.715		4.38	20
Bromochloromethane	0.454	0.587		29.3	20
Chloroform	1.156	1.221		5.62	20
1,1,1-Trichloroethane	1.028	1.094		6.42	20
Methylcyclohexane	0.455	0.563		23.74	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
1,2-Dichloropropane	0.358	0.406		13.41	20
Bromodichloromethane	0.541	0.594		9.8	20
4-Methyl-2-Pentanone	0.367	0.449		22.34	20
Toluene	0.870	1.065		22.41	20
t-1,3-Dichloropropene	0.500	0.605		21	20
cis-1,3-Dichloropropene	0.548	0.648		18.25	20
1,1,2-Trichloroethane	0.346	0.378		9.25	20
2-Hexanone	0.253	0.329		30.04	20
Dibromochloromethane	0.403	0.469		16.38	20
1,2-Dibromoethane	0.327	0.379		15.9	20
Tetrachloroethene	0.387	0.405		4.65	20
Chlorobenzene	1.145	1.212	0.3	5.85	20

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
Ethyl Benzene	1.794	2.160		20.4	20
m/p-Xylenes	0.682	0.856		25.51	20
o-Xylene	0.648	0.785		21.14	20
Styrene	1.059	1.373		29.65	20
Bromoform	0.306	0.350	0.1	14.38	20
Isopropylbenzene	3.425	3.638		6.19	20
1,1,2,2-Tetrachloroethane	1.179	1.097	0.3	-6.95	20
1,3-Dichlorobenzene	1.734	1.744		0.58	20
1,4-Dichlorobenzene	1.777	1.740		-2.08	20
1,2-Dichlorobenzene	1.667	1.670		0.18	20
1,2-Dibromo-3-Chloropropane	0.216	0.204		-5.56	20
1,2,4-Trichlorobenzene	0.794	0.815		2.64	20
1,2,3-Trichlorobenzene	0.798	0.788		-1.25	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.

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_Y Calibration Date/Time: 03/11/2025 09:42

Lab File ID: VY021474.D Init. Calib. Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 12:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.459	0.404		-11.98	20
Chloromethane	0.647	0.619	0.1	-4.33	20
Vinyl Chloride	0.707	0.717		1.41	20
Bromomethane	0.511	0.467		-8.61	20
Chloroethane	0.467	0.485		3.85	20
Trichlorofluoromethane	0.987	0.986		-0.1	20
1,1,2-Trichlorotrifluoroethane	0.563	0.527		-6.39	20
1,1-Dichloroethene	0.514	0.478		-7	20
Acetone	0.115	0.100		-13.04	20
Carbon Disulfide	1.610	1.485		-7.76	20
Methyl tert-butyl Ether	1.302	1.276		-2	20
Methyl Acetate	0.256	0.288		12.5	20
Methylene Chloride	0.605	0.529		-12.56	20
trans-1,2-Dichloroethene	0.575	0.544		-5.39	20
1,1-Dichloroethane	1.056	0.992	0.1	-6.06	20
Cyclohexane	0.990	0.875		-11.62	20
2-Butanone	0.159	0.150		-5.66	20
Carbon Tetrachloride	0.592	0.586		-1.01	20
cis-1,2-Dichloroethene	0.653	0.626		-4.14	20
Bromochloromethane	0.443	0.423		-4.51	20
Chloroform	1.096	1.037		-5.38	20
1,1,1-Trichloroethane	1.004	0.951		-5.28	20
Methylcyclohexane	0.631	0.621		-1.59	20
Benzene	1.515	1.491		-1.58	20
1,2-Dichloroethane	0.424	0.423		-0.24	20
Trichloroethene	0.383	0.375		-2.09	20
1,2-Dichloropropane	0.361	0.356		-1.38	20
Bromodichloromethane	0.533	0.534		0.19	20
4-Methyl-2-Pentanone	0.228	0.243		6.58	20
Toluene	0.955	0.954		-0.1	20
t-1,3-Dichloropropene	0.470	0.485		3.19	20
cis-1,3-Dichloropropene	0.557	0.562		0.9	20
1,1,2-Trichloroethane	0.263	0.268		1.9	20
2-Hexanone	0.151	0.166		9.93	20
Dibromochloromethane	0.360	0.368		2.22	20
1,2-Dibromoethane	0.248	0.253		2.02	20
Tetrachloroethene	0.407	0.400		-1.72	20
Chlorobenzene	1.181	1.133	0.3	-4.06	20

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_Y Calibration Date/Time: 03/11/2025 09:42

Lab File ID: VY021474.D Init. Calib. Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 12:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.072	2.033		-1.88	20
m/p-Xylenes	0.787	0.775		-1.52	20
o-Xylene	0.725	0.727		0.28	20
Styrene	1.203	1.227		2	20
Bromoform	0.233	0.241	0.1	3.43	20
Isopropylbenzene	3.939	3.795		-3.66	20
1,1,2,2-Tetrachloroethane	0.695	0.661	0.3	-4.89	20
1,3-Dichlorobenzene	1.834	1.747		-4.74	20
1,4-Dichlorobenzene	1.794	1.723		-3.96	20
1,2-Dichlorobenzene	1.572	1.535		-2.35	20
1,2-Dibromo-3-Chloropropane	0.104	0.105		0.96	20
1,2,4-Trichlorobenzene	0.859	0.916		6.64	20
1,2,3-Trichlorobenzene	0.722	0.771		6.79	20
1,2-Dichloroethane-d4	0.528	0.407		-22.92	20
Dibromofluoromethane	0.329	0.262		-20.36	20
Toluene-d8	1.244	0.971		-21.94	20
4-Bromofluorobenzene	0.423	0.342		-19.15	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_Y\Data\VY031125\
Data File : VY021482.D
Acq On : 11 Mar 2025 13:35
Operator : SY/MD
Sample : Q1514-01
Misc : 7.28g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB01

Quant Time: Mar 12 01:24:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

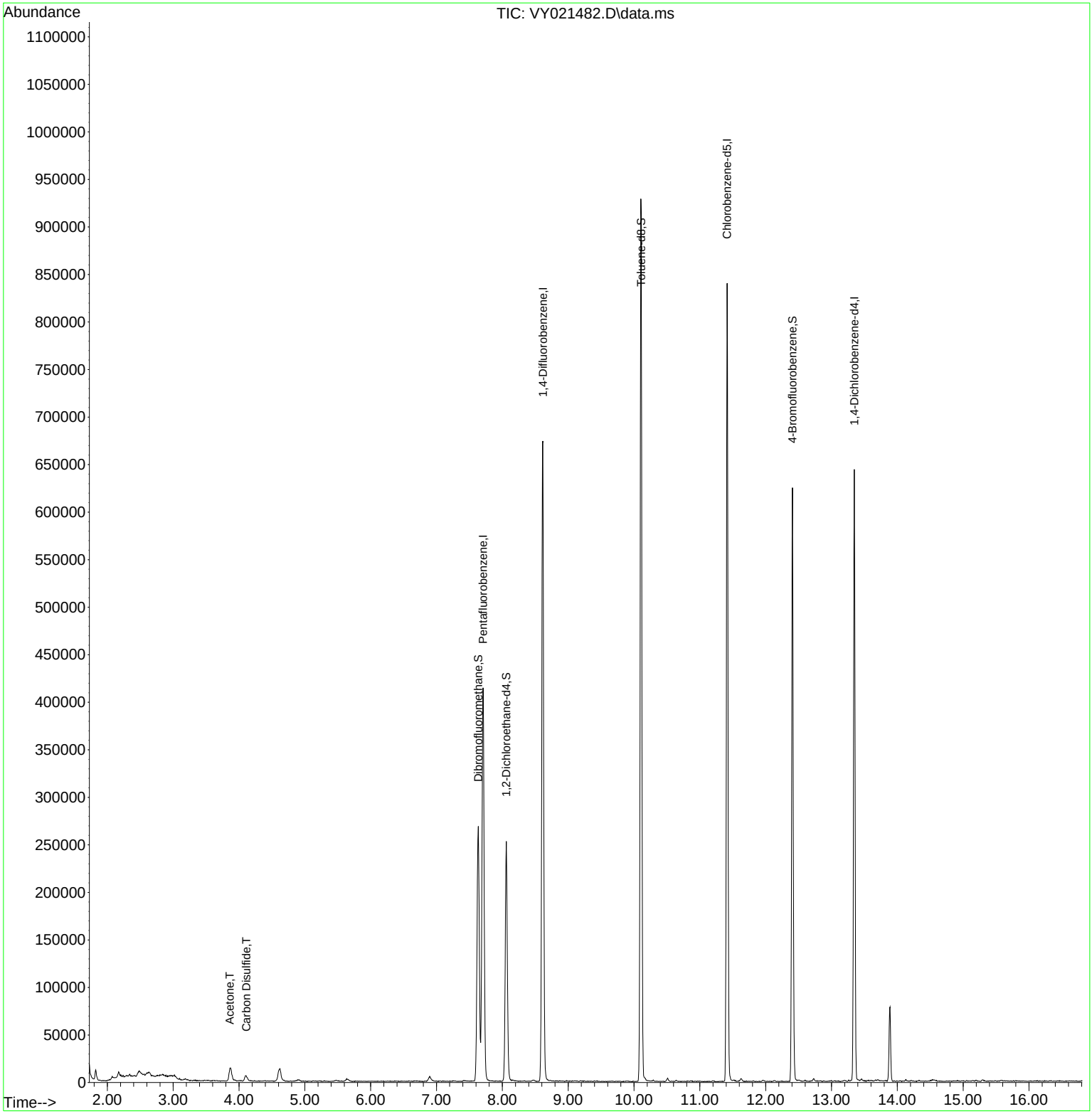
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	310817	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	561377	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	429027	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	159534	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	198337	60.374	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 120.740%			
35) Dibromofluoromethane	7.634	113	189469	51.346	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.700%			
50) Toluene-d8	10.109	98	597514	42.766	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 85.540%			
62) 4-Bromofluorobenzene	12.408	95	174764	36.773	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 73.540%			
Target Compounds						Qvalue
16) Acetone	3.860	43	26145	36.489	ug/l	99
17) Carbon Disulfide	4.110	76	10693	1.069	ug/l #	94

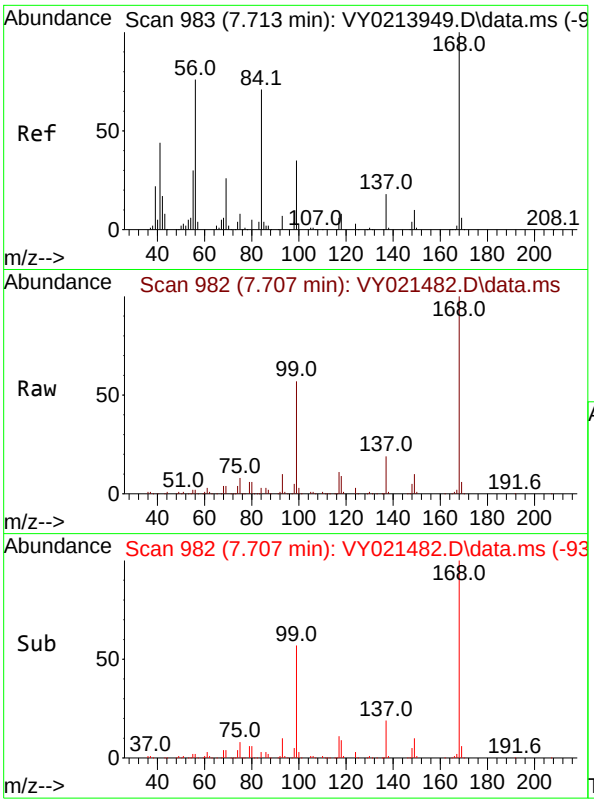
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021482.D
Acq On : 11 Mar 2025 13:35
Operator : SY/MD
Sample : Q1514-01
Misc : 7.28g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB01

Quant Time: Mar 12 01:24:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration



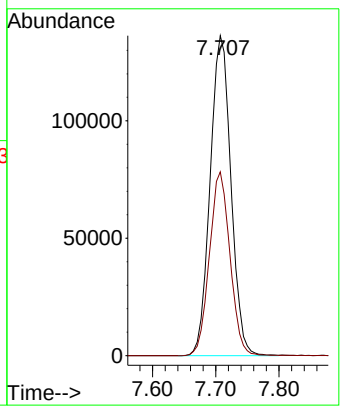


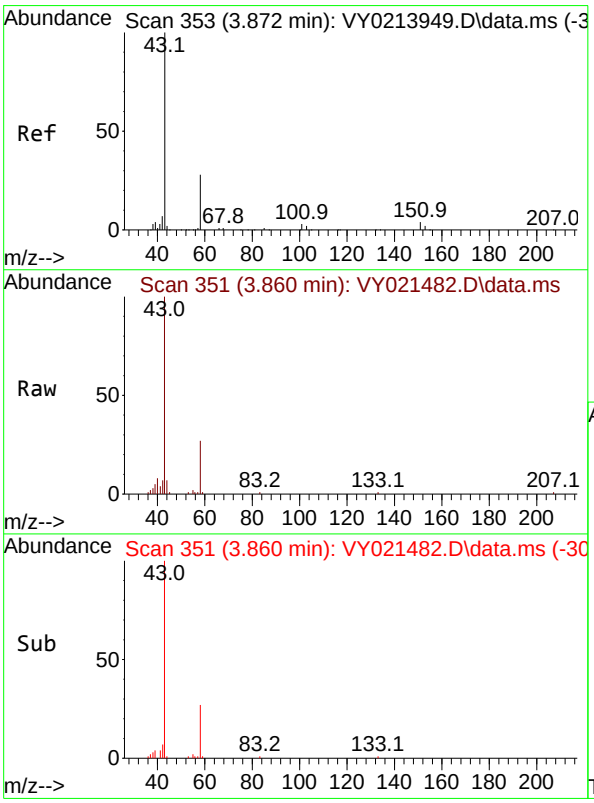
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021482.D
Acq: 11 Mar 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB01

Tgt Ion:168 Resp: 310817

Ion	Ratio	Lower	Upper
168	100		
99	57.5	46.0	69.0

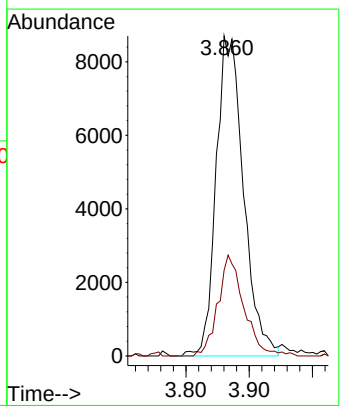


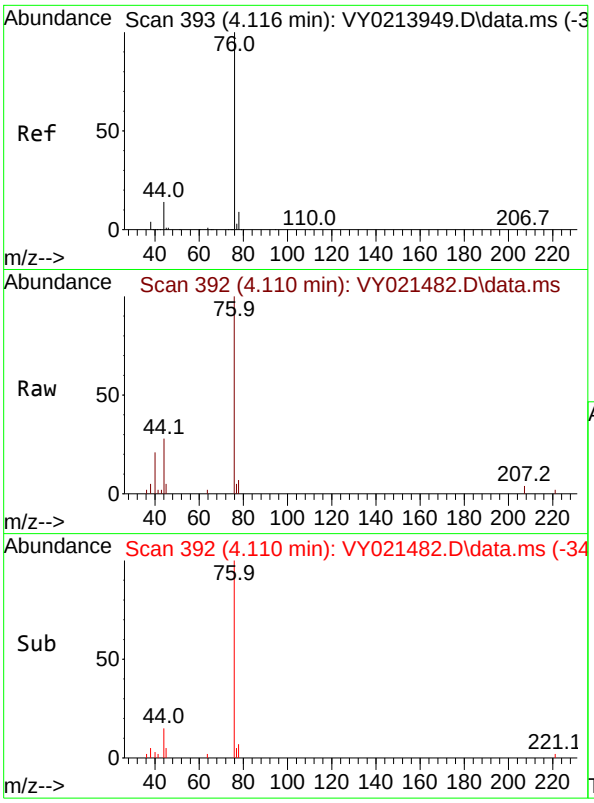


#16
Acetone
Concen: 36.489 ug/l
RT: 3.860 min Scan# 351
Delta R.T. -0.012 min
Lab File: VY021482.D
Acq: 11 Mar 2025 13:35

Tgt Ion: 43 Resp: 26145

Ion	Ratio	Lower	Upper
43	100		
58	26.8	22.1	33.1



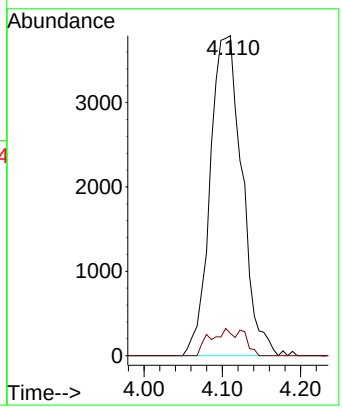


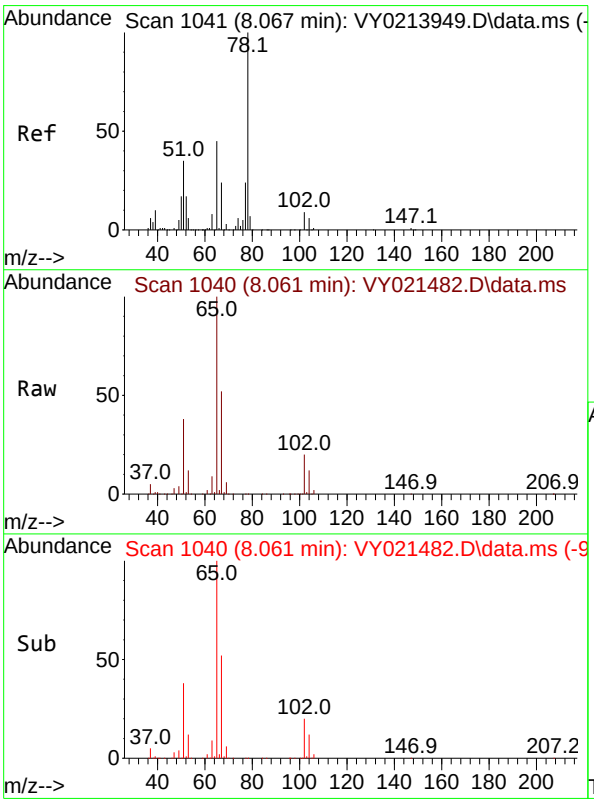
#17
Carbon Disulfide
Concen: 1.069 ug/l
RT: 4.110 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY021482.D
Acq: 11 Mar 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB01

Tgt Ion: 76 Resp: 10693

Ion	Ratio	Lower	Upper
76	100		
78	7.0	7.4	11.0#

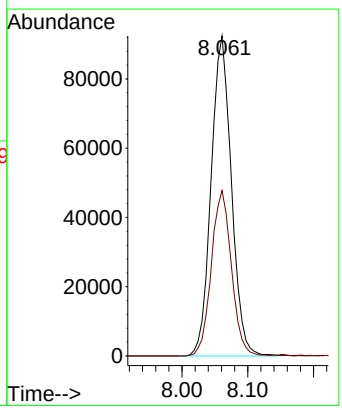


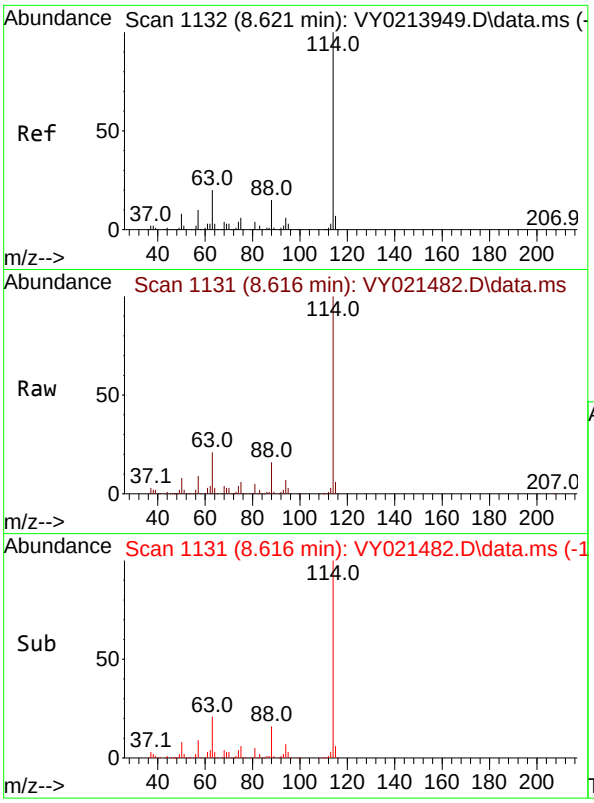


#33
1,2-Dichloroethane-d4
Concen: 60.374 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021482.D
Acq: 11 Mar 2025 13:35

Tgt Ion: 65 Resp: 198337

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	102.8



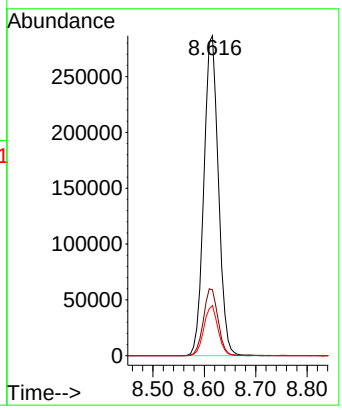


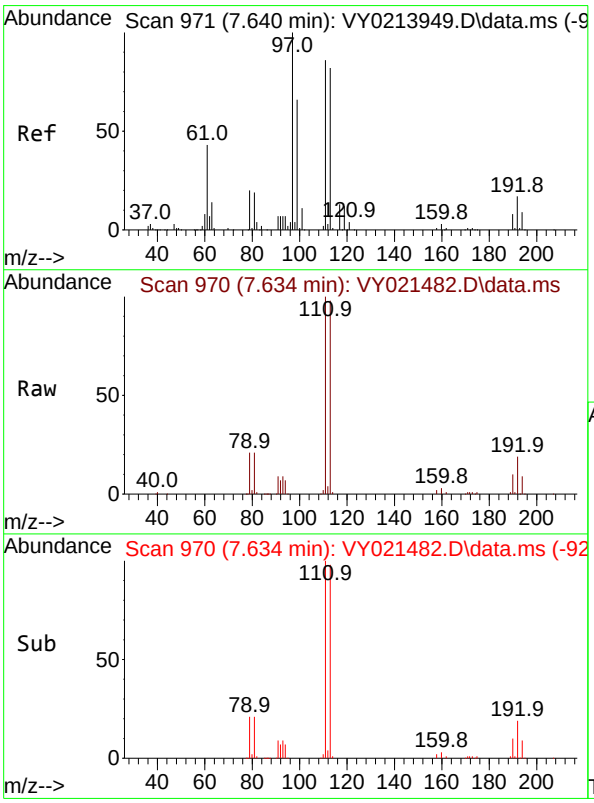
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021482.D
Acq: 11 Mar 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB01

Tgt Ion:114 Resp: 561377

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.8
88	15.6	0.0	30.8

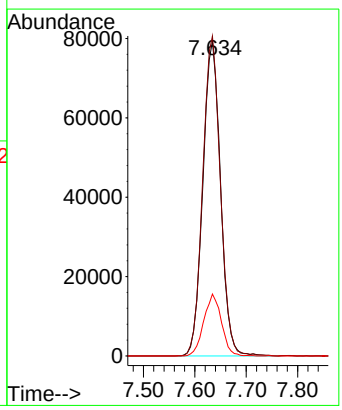


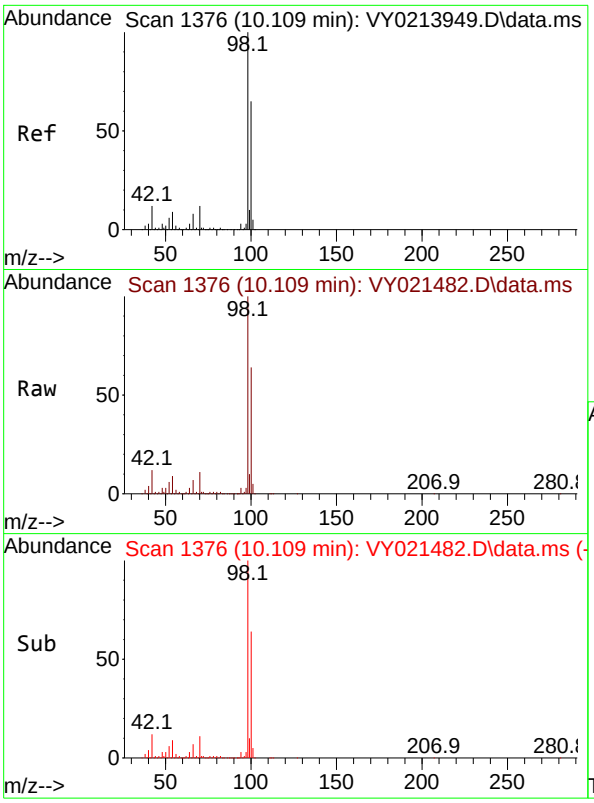


#35
Dibromofluoromethane
Concen: 51.346 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY021482.D
Acq: 11 Mar 2025 13:35

Tgt Ion:113 Resp: 189469

Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.0	123.0
192	19.7	15.9	23.9



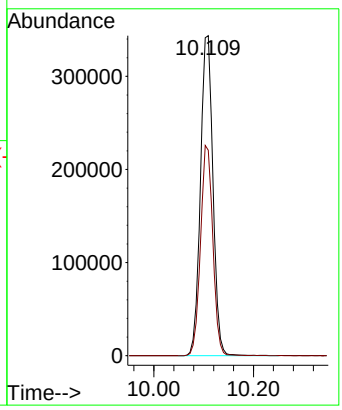


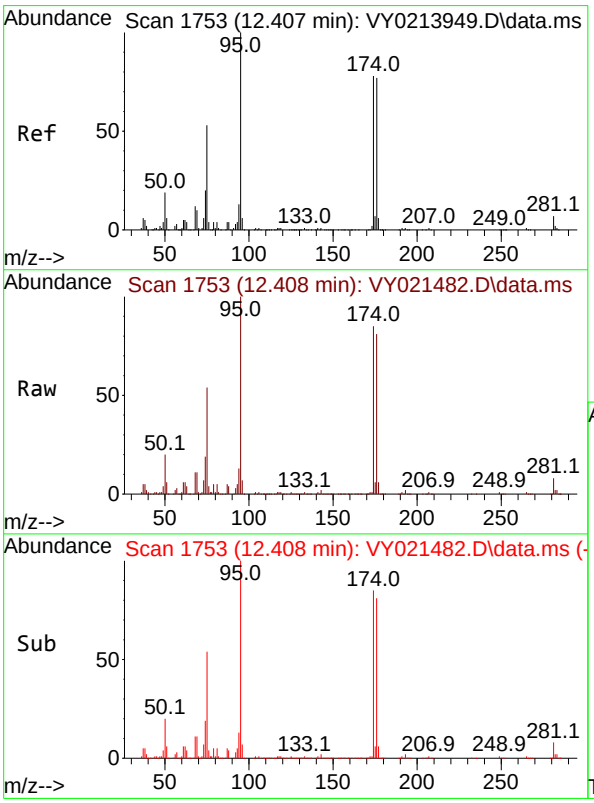
#50
Toluene-d8
Concen: 42.766 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021482.D
Acq: 11 Mar 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB01

Tgt Ion: 98 Resp: 597514

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.1	78.1

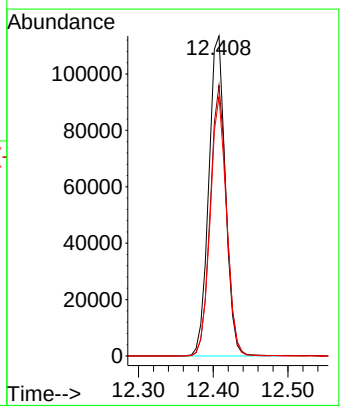


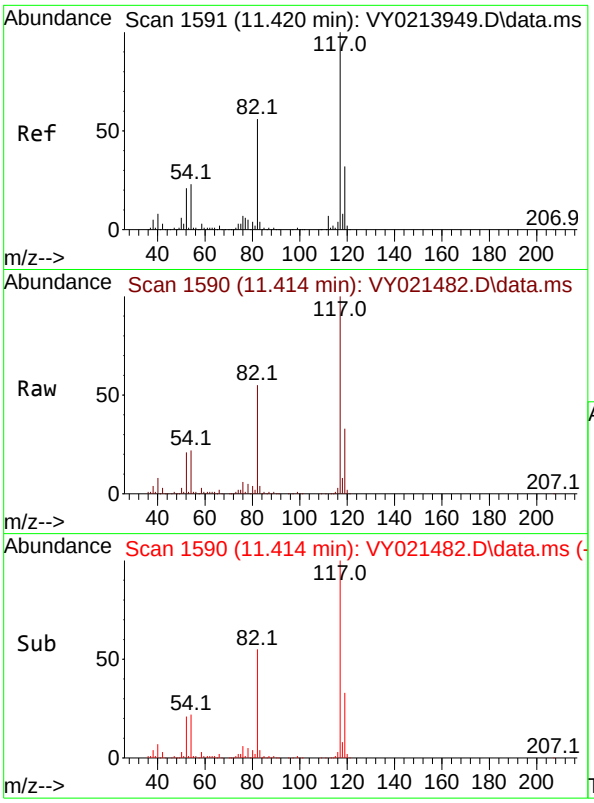


#62
4-Bromofluorobenzene
Concen: 36.773 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021482.D
Acq: 11 Mar 2025 13:35

Tgt Ion: 95 Resp: 174764

Ion	Ratio	Lower	Upper
95	100		
174	83.1	0.0	165.0
176	79.7	0.0	160.0



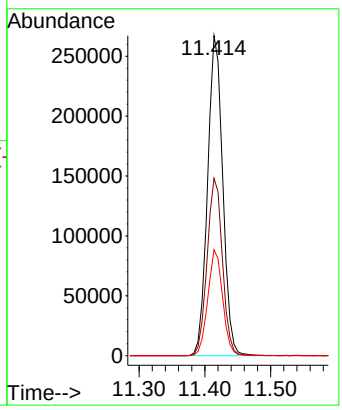


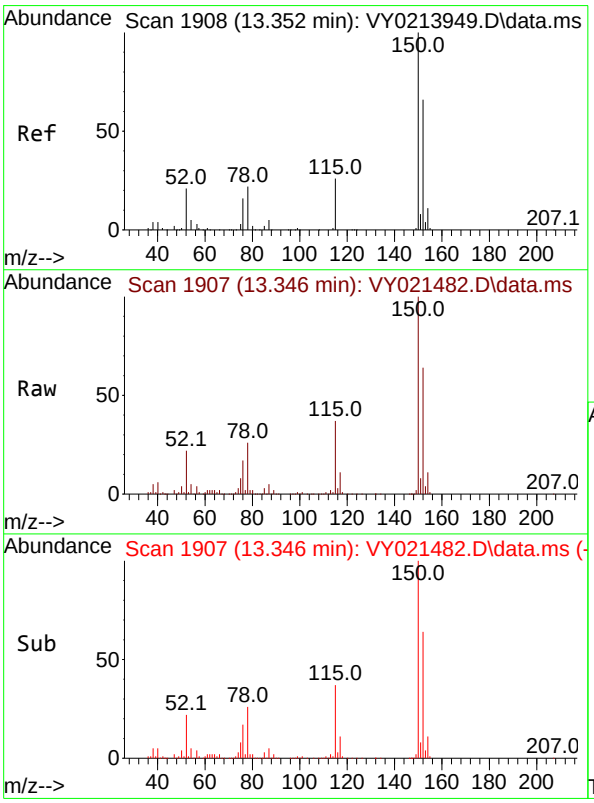
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021482.D
Acq: 11 Mar 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB01

Tgt Ion:117 Resp: 429027

Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.6	67.0
119	33.1	25.4	38.0

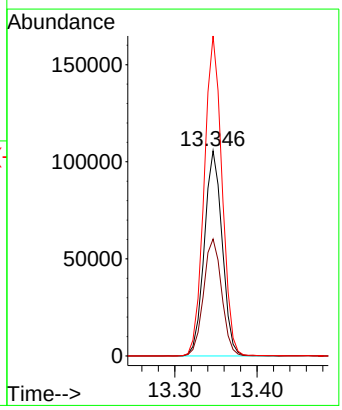




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021482.D
Acq: 11 Mar 2025 13:35

Tgt Ion:152 Resp: 159534

Ion	Ratio	Lower	Upper
152	100		
115	57.9	29.0	87.0
150	155.7	0.0	347.2



Sample Results: **VY021482.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021482.D
Acq On : 11 Mar 2025 13:35
Operator : SY/MD
Sample : Q1514-01
Misc : 7.28g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Title : SW846 8260

Signal : TIC: VY021482.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	12	17	25	rVB2	10971	19006	1.18%	0.219%
2	2.483	118	125	134	rBV6	5583	19166	1.19%	0.221%
3	3.873	343	353	361	rBV2	13710	40049	2.48%	0.461%
4	4.104	382	391	400	rBV2	5784	17184	1.07%	0.198%
5	4.622	463	476	485	rBV2	13274	42719	2.65%	0.492%
6	7.634	960	970	976	rBV	267949	642637	39.87%	7.396%
7	7.707	976	982	997	rVB	413486	935725	58.05%	10.769%
8	8.061	1030	1040	1054	rBV	252439	547244	33.95%	6.298%
9	8.616	1121	1131	1147	rBV	673528	1339882	83.12%	15.421%
10	10.103	1367	1375	1391	rBV	928403	1611926	100.00%	18.552%
11	11.414	1583	1590	1603	rBV	839256	1353653	83.98%	15.579%
12	12.408	1746	1753	1764	rBV2	624639	1005959	62.41%	11.578%
13	13.346	1900	1907	1914	rBV	642668	982215	60.93%	11.304%
14	13.889	1989	1996	2004	rVB	78255	131414	8.15%	1.512%

Sum of corrected areas: 8688779

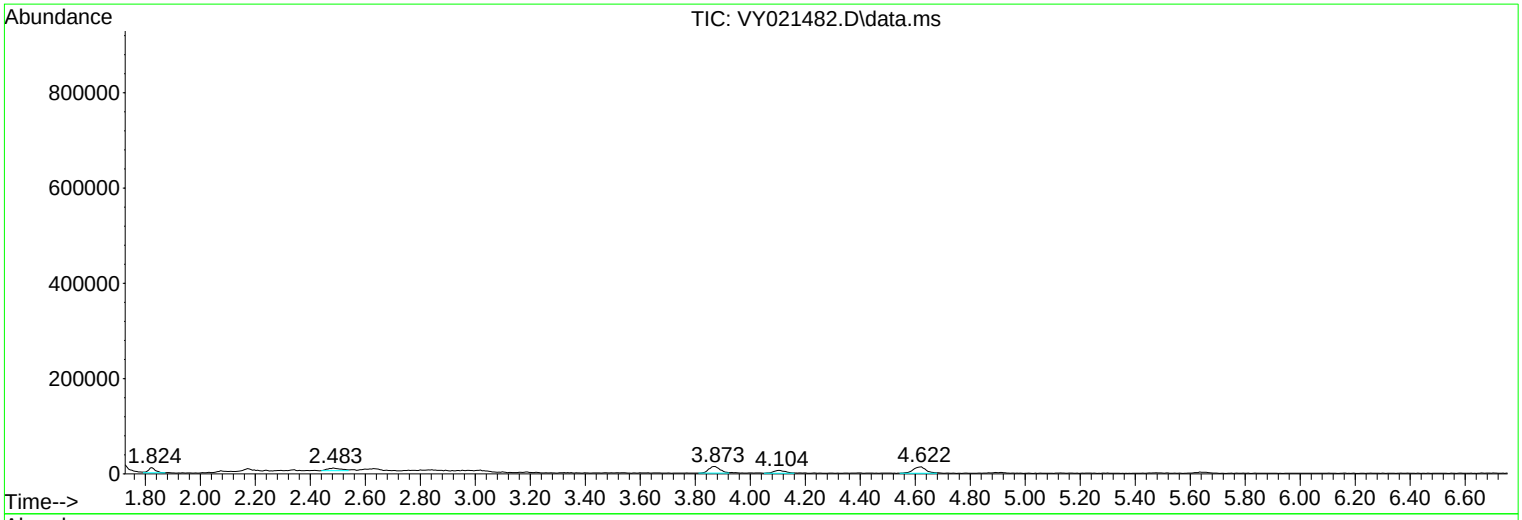
Sample Results: **VY021482.D**

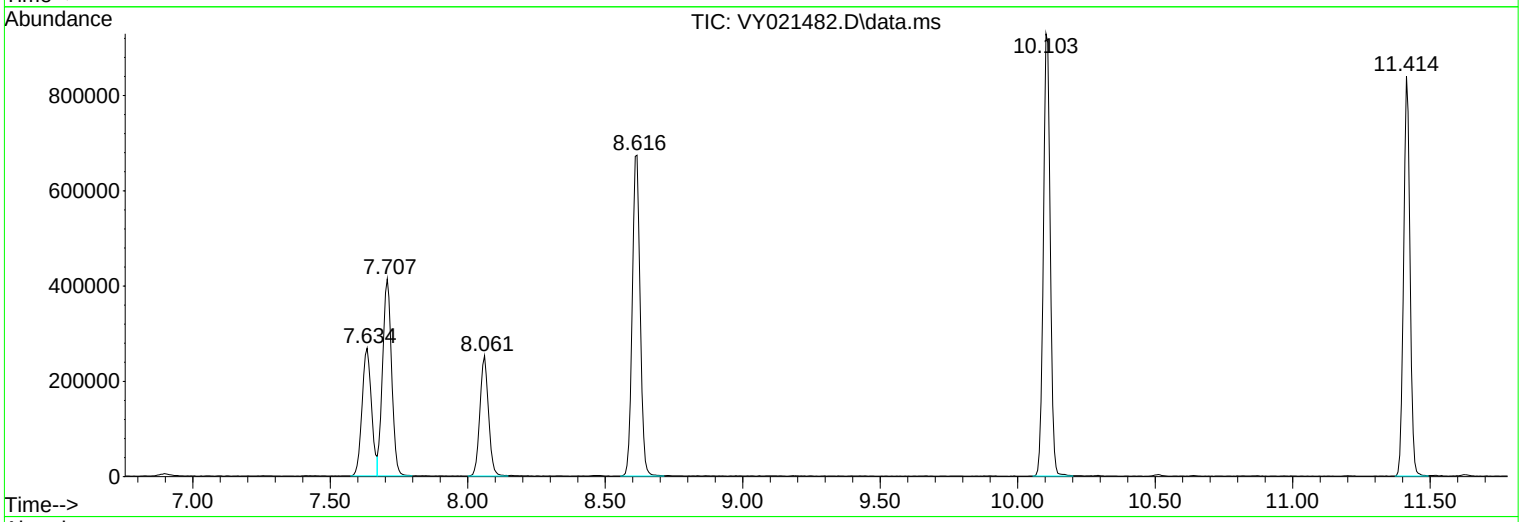
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021482.D
Acq On : 11 Mar 2025 13:35
Operator : SY/MD
Sample : Q1514-01
Misc : 7.28g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

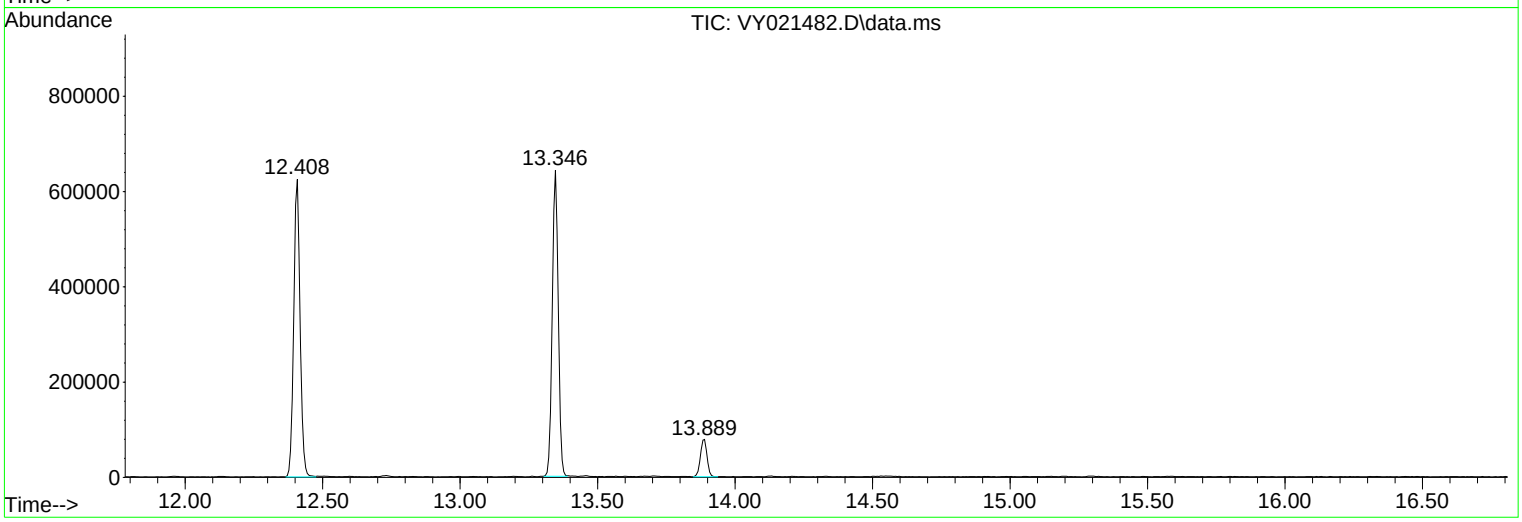
Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VY021482.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021482.D
Acq On : 11 Mar 2025 13:35
Operator : SY/MD
Sample : Q1514-01
Misc : 7.28g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021482.D
Acq On : 11 Mar 2025 13:35
Operator : SY/MD
Sample : Q1514-01
Misc : 7.28g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021481.D
Acq On : 11 Mar 2025 13:11
Operator : SY/MD
Sample : Q1514-03
Misc : 7.48g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB02

Quant Time: Mar 12 01:24:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

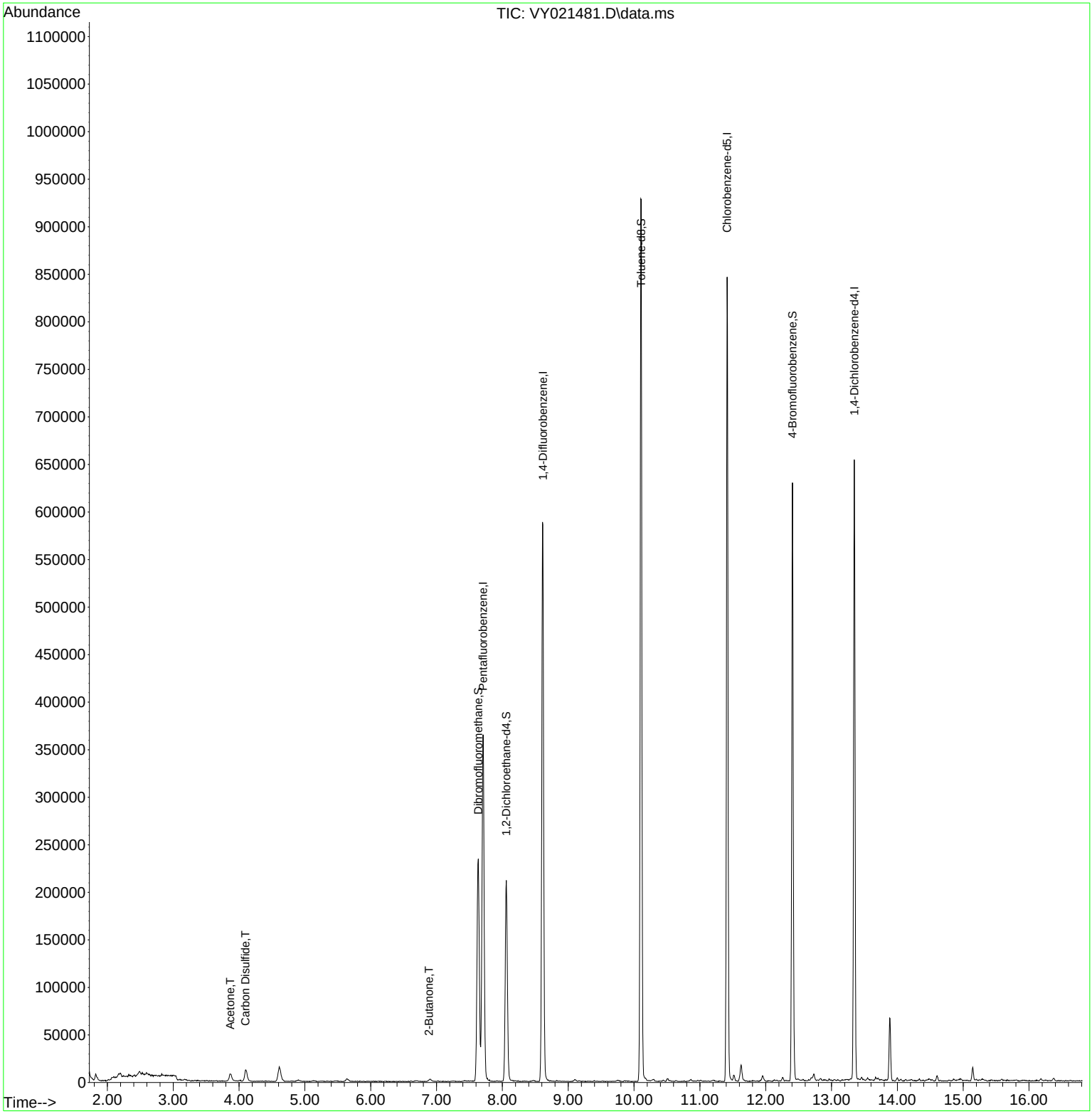
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	269495	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	487605	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	426245	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	159684	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	170368	59.812	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.620%			
35) Dibromofluoromethane	7.634	113	165963	51.781	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.560%			
50) Toluene-d8	10.109	98	591303	48.725	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.440%			
62) 4-Bromofluorobenzene	12.407	95	175823	42.593	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 85.180%			
Target Compounds						Qvalue
16) Acetone	3.866	43	14141	22.762	ug/l	99
17) Carbon Disulfide	4.098	76	23452	2.703	ug/l #	94
25) 2-Butanone	6.884	43	3893	4.530	ug/l #	87

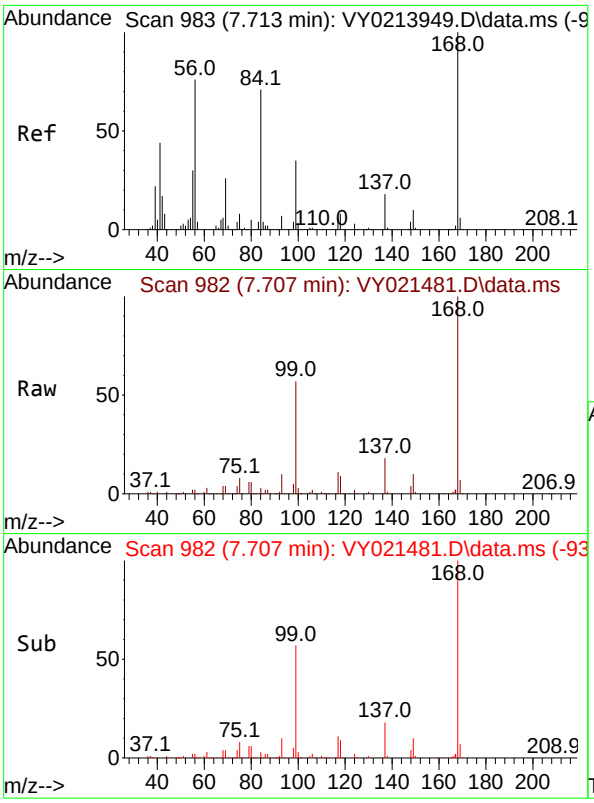
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021481.D
Acq On : 11 Mar 2025 13:11
Operator : SY/MD
Sample : Q1514-03
Misc : 7.48g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB02

Quant Time: Mar 12 01:24:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration



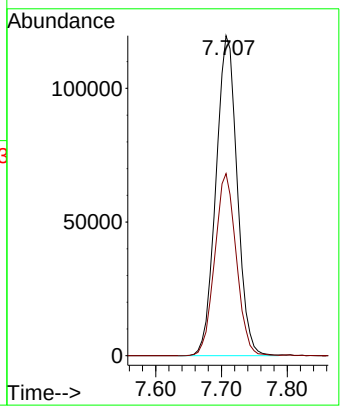


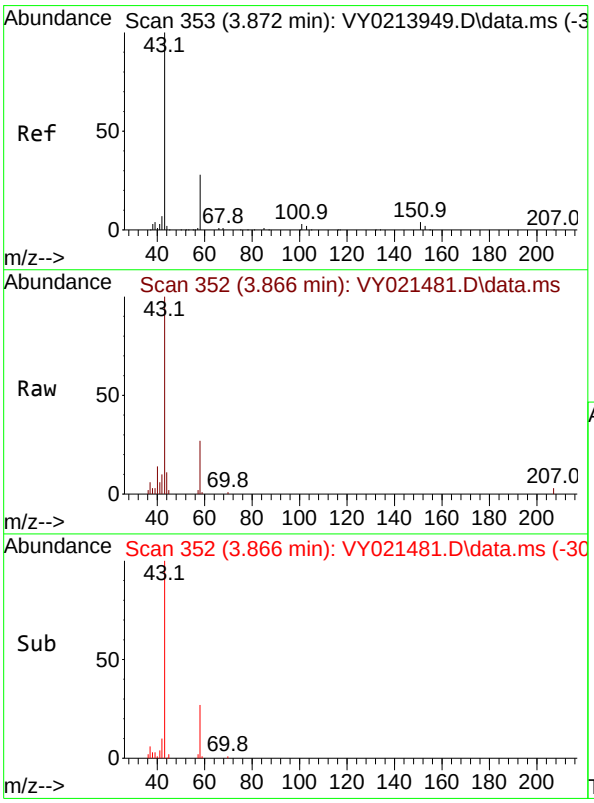
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021481.D
Acq: 11 Mar 2025 13:11

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB02

Tgt Ion:168 Resp: 269495

Ion	Ratio	Lower	Upper
168	100		
99	56.9	46.0	69.0

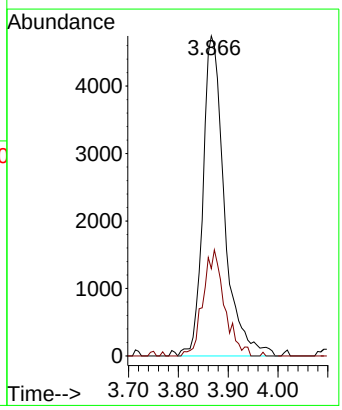


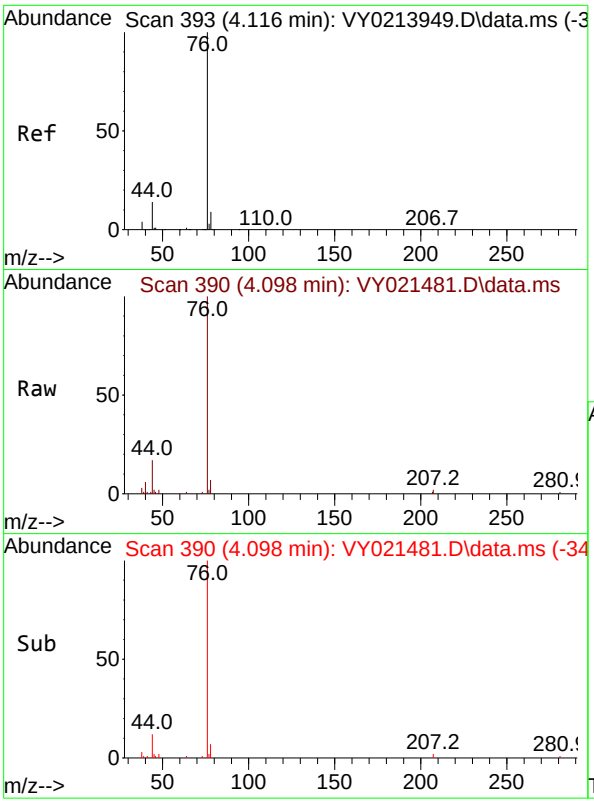


#16
Acetone
Concen: 22.762 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY021481.D
Acq: 11 Mar 2025 13:11

Tgt Ion: 43 Resp: 14141

Ion	Ratio	Lower	Upper
43	100		
58	27.3	22.1	33.1



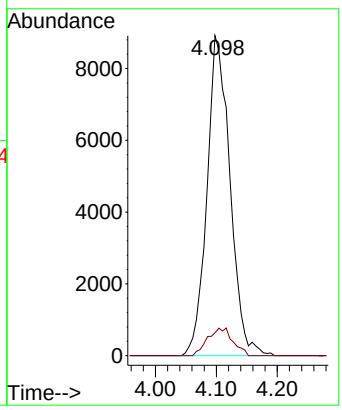


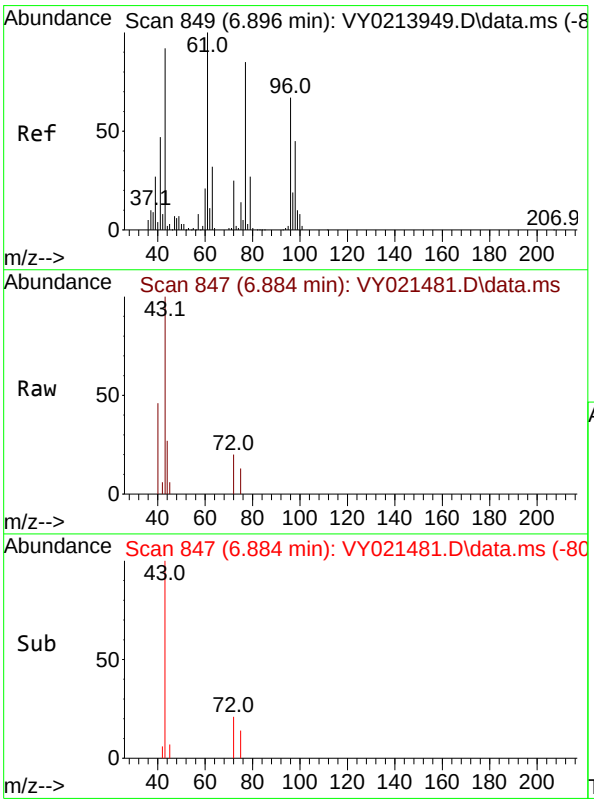
#17
Carbon Disulfide
Concen: 2.703 ug/l
RT: 4.098 min Scan# 3
Delta R.T. -0.018 min
Lab File: VY021481.D
Acq: 11 Mar 2025 13:11

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB02

Tgt Ion: 76 Resp: 23452

Ion	Ratio	Lower	Upper
76	100		
78	7.2	7.4	11.0#

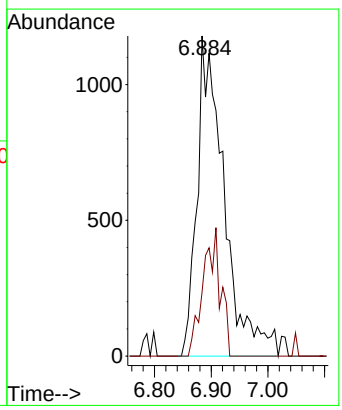


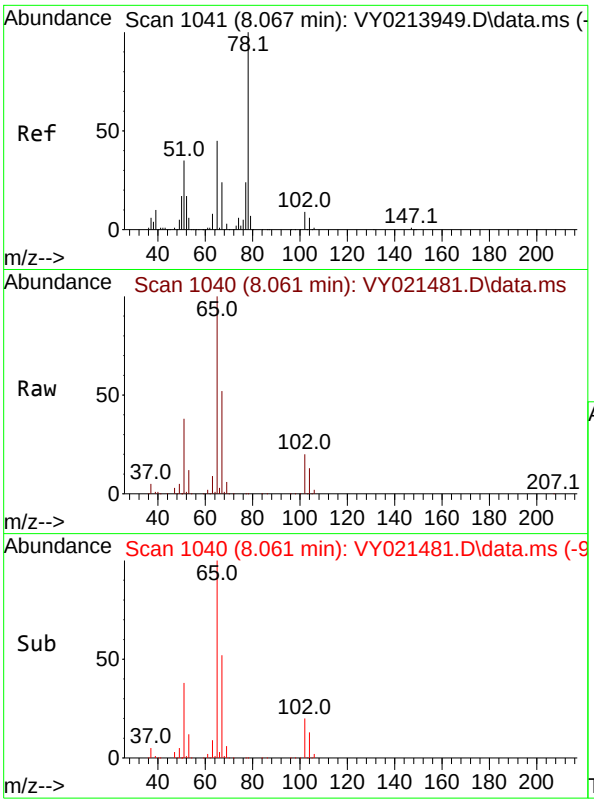


#25
2-Butanone
Concen: 4.530 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.012 min
Lab File: VY021481.D
Acq: 11 Mar 2025 13:11

Tgt Ion: 43 Resp: 3893

Ion	Ratio	Lower	Upper
43	100		
72	19.9	21.4	32.0#



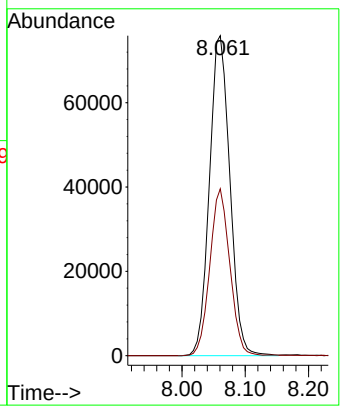


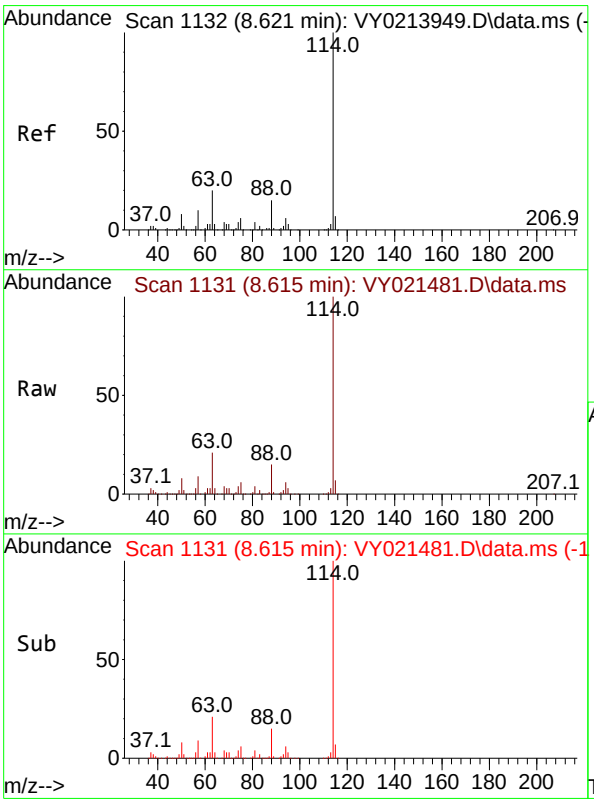
#33
1,2-Dichloroethane-d4
Concen: 59.812 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021481.D
Acq: 11 Mar 2025 13:11

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB02

Tgt Ion: 65 Resp: 170368

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	102.8

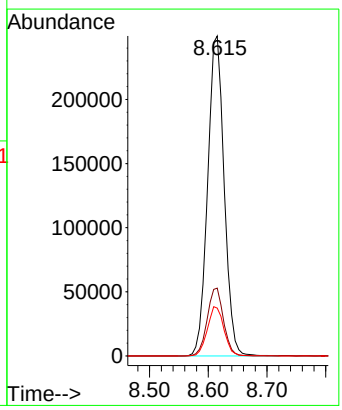


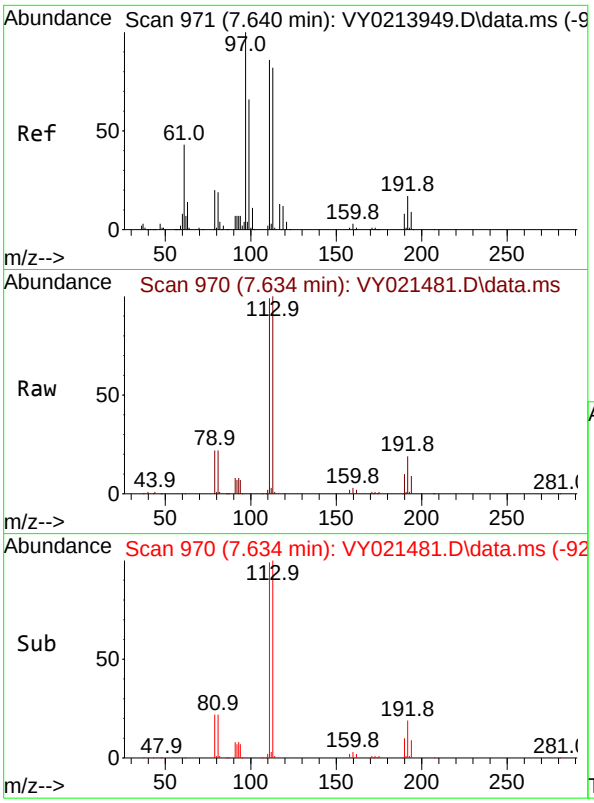


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VY021481.D
Acq: 11 Mar 2025 13:11

Tgt Ion:114 Resp: 487605

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	40.8
88	15.0	0.0	30.8



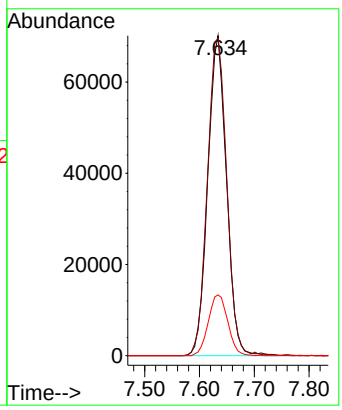


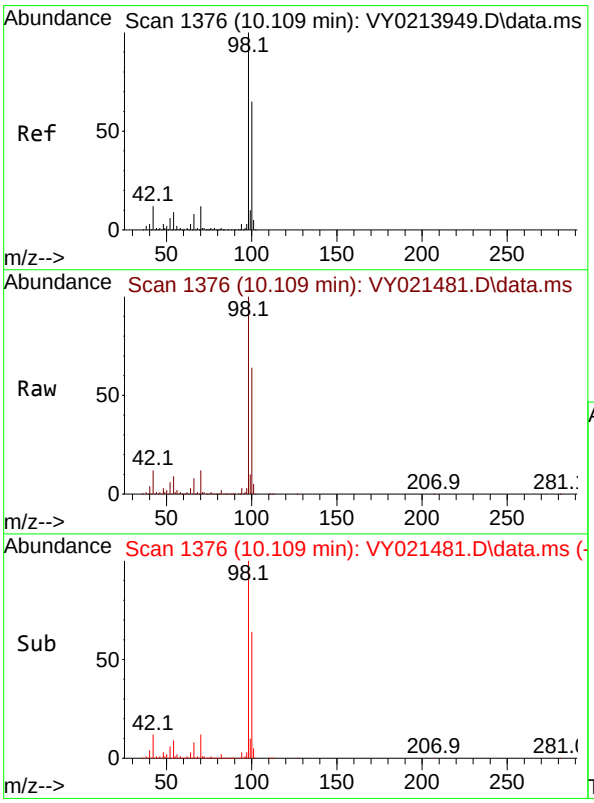
#35
Dibromofluoromethane
Concen: 51.781 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021481.D
Acq: 11 Mar 2025 13:11

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB02

Tgt Ion:113 Resp: 165963

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.0	123.0
192	19.8	15.9	23.9

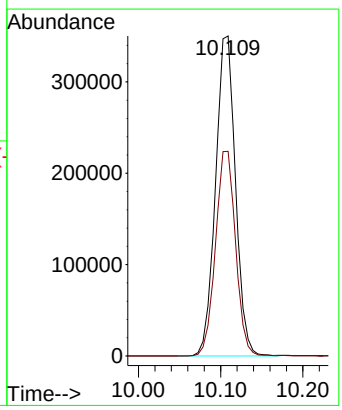


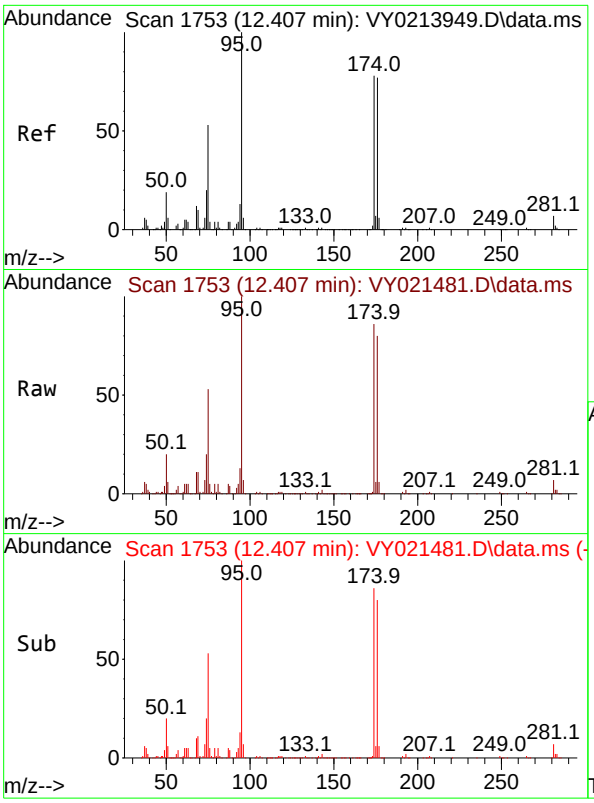


#50
Toluene-d8
Concen: 48.725 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021481.D
Acq: 11 Mar 2025 13:11

Tgt Ion: 98 Resp: 591303

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.1	78.1



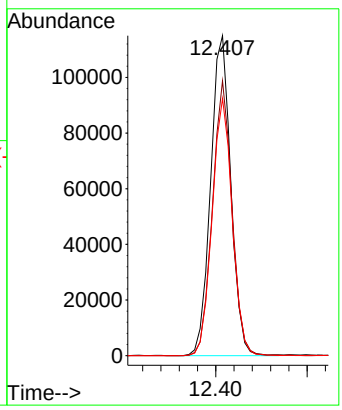


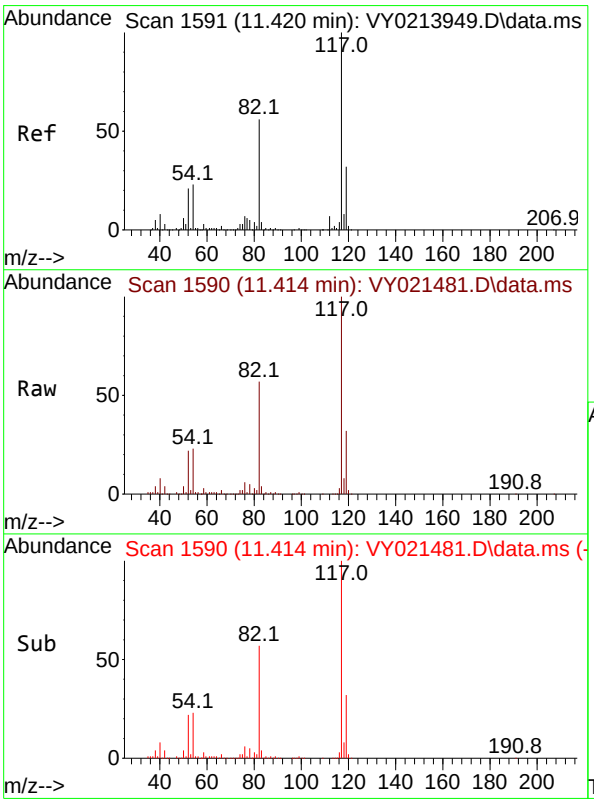
#62
4-Bromofluorobenzene
Concen: 42.593 ug/l
RT: 12.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021481.D
Acq: 11 Mar 2025 13:11

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB02

Tgt Ion: 95 Resp: 175823

Ion	Ratio	Lower	Upper
95	100		
174	83.5	0.0	165.0
176	80.0	0.0	160.0

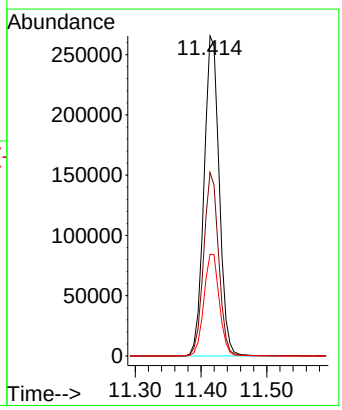


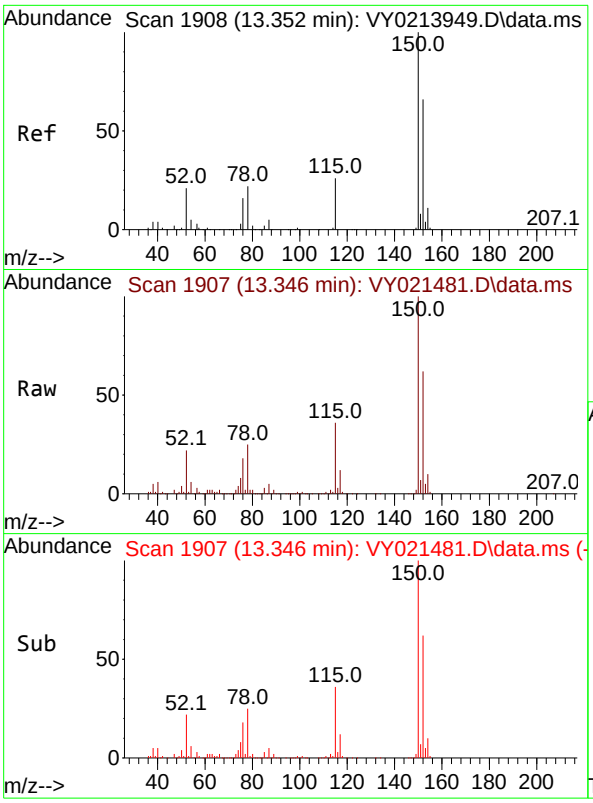


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021481.D
Acq: 11 Mar 2025 13:11

Tgt Ion:117 Resp: 426245

Ion	Ratio	Lower	Upper
117	100		
82	57.3	44.6	67.0
119	31.8	25.4	38.0



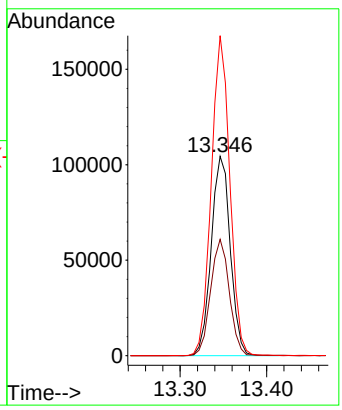


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021481.D
Acq: 11 Mar 2025 13:11

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB02

Tgt Ion:152 Resp: 159684

Ion	Ratio	Lower	Upper
152	100		
115	57.4	29.0	87.0
150	156.1	0.0	347.2



Sample Results: **VY021481.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021481.D
Acq On : 11 Mar 2025 13:11
Operator : SY/MD
Sample : Q1514-03
Misc : 7.48g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Title : SW846 8260

Signal : TIC: VY021481.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.866	344	352	361	rBV2	7273	20723	1.30%	0.251%
2	4.104	381	391	404	rVB2	11996	33327	2.09%	0.404%
3	4.610	464	474	487	rBV3	15536	48531	3.04%	0.589%
4	7.634	959	970	976	rBV	233749	569309	35.63%	6.904%
5	7.707	976	982	997	rVB	363783	813092	50.88%	9.861%
6	8.061	1031	1040	1051	rBV	211100	474337	29.68%	5.753%
7	8.609	1121	1130	1143	rBV	588381	1167525	73.07%	14.160%
8	10.103	1367	1375	1385	rBV	928344	1597907	100.00%	19.379%
9	11.414	1583	1590	1603	rBV	845950	1353967	84.73%	16.421%
10	11.627	1618	1625	1632	rBV	17105	36823	2.30%	0.447%
11	12.407	1746	1753	1762	rBV2	629160	1008304	63.10%	12.229%
12	13.346	1899	1907	1915	rVB	651387	986679	61.75%	11.966%
13	13.883	1989	1995	2002	rVB	66143	111154	6.96%	1.348%
14	15.145	2196	2202	2207	rBV2	14181	23843	1.49%	0.289%

Sum of corrected areas: 8245521

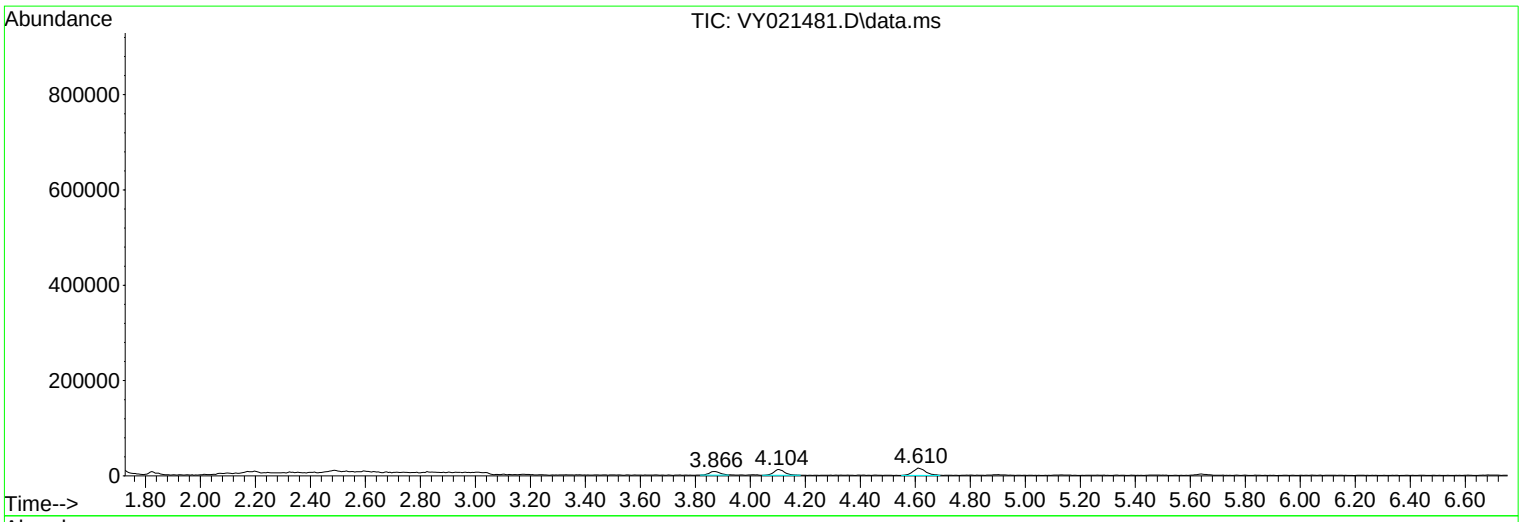
Sample Results: **VY021481.D**

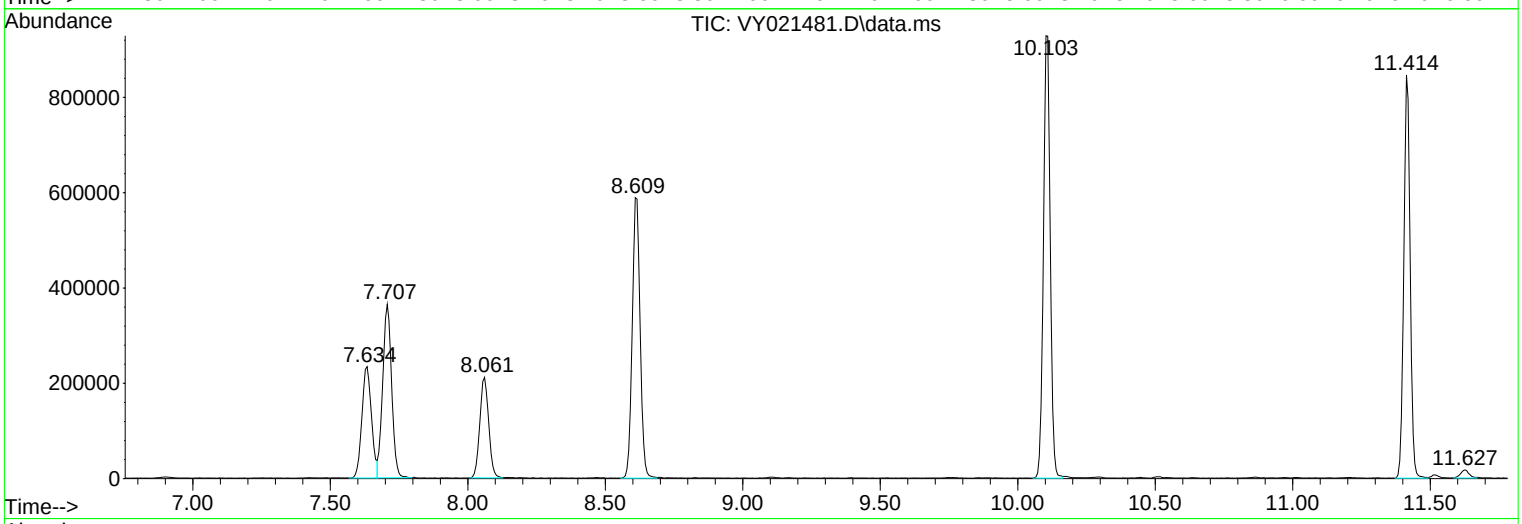
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021481.D
Acq On : 11 Mar 2025 13:11
Operator : SY/MD
Sample : Q1514-03
Misc : 7.48g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

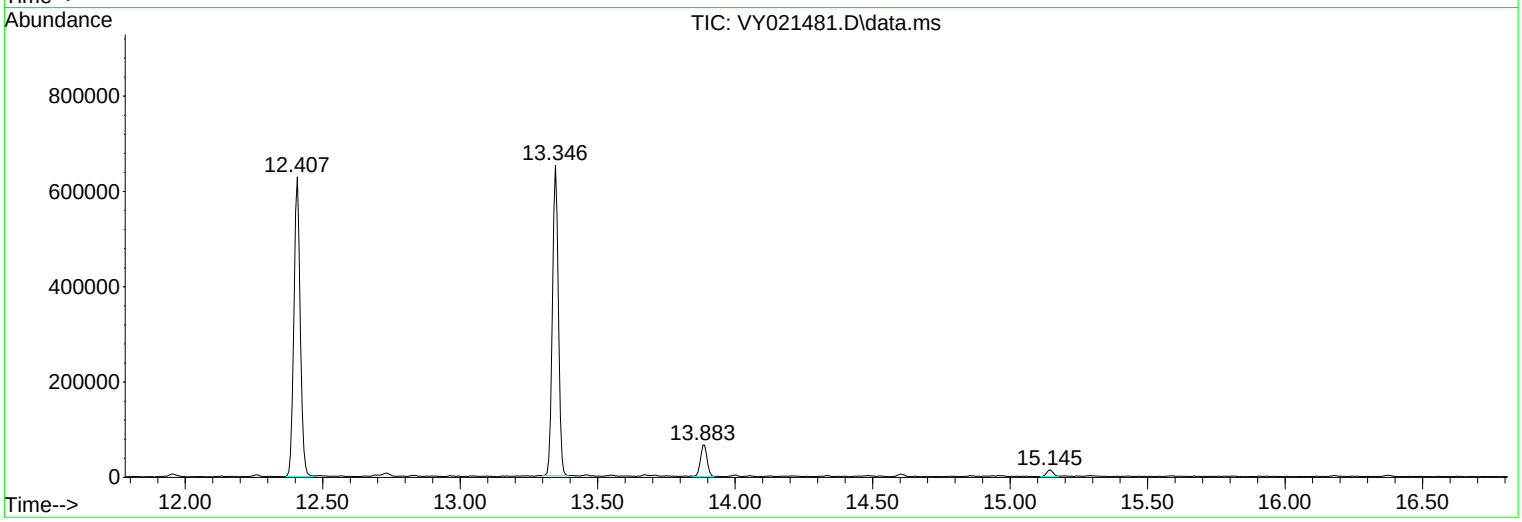
Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021481.D
Acq On : 11 Mar 2025 13:11
Operator : SY/MD
Sample : Q1514-03
Misc : 7.48g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021481.D
Acq On : 11 Mar 2025 13:11
Operator : SY/MD
Sample : Q1514-03
Misc : 7.48g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-105-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021480.D
Acq On : 11 Mar 2025 12:48
Operator : SY/MD
Sample : Q1514-05
Misc : 7.66g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-103-SB01

Quant Time: Mar 12 01:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

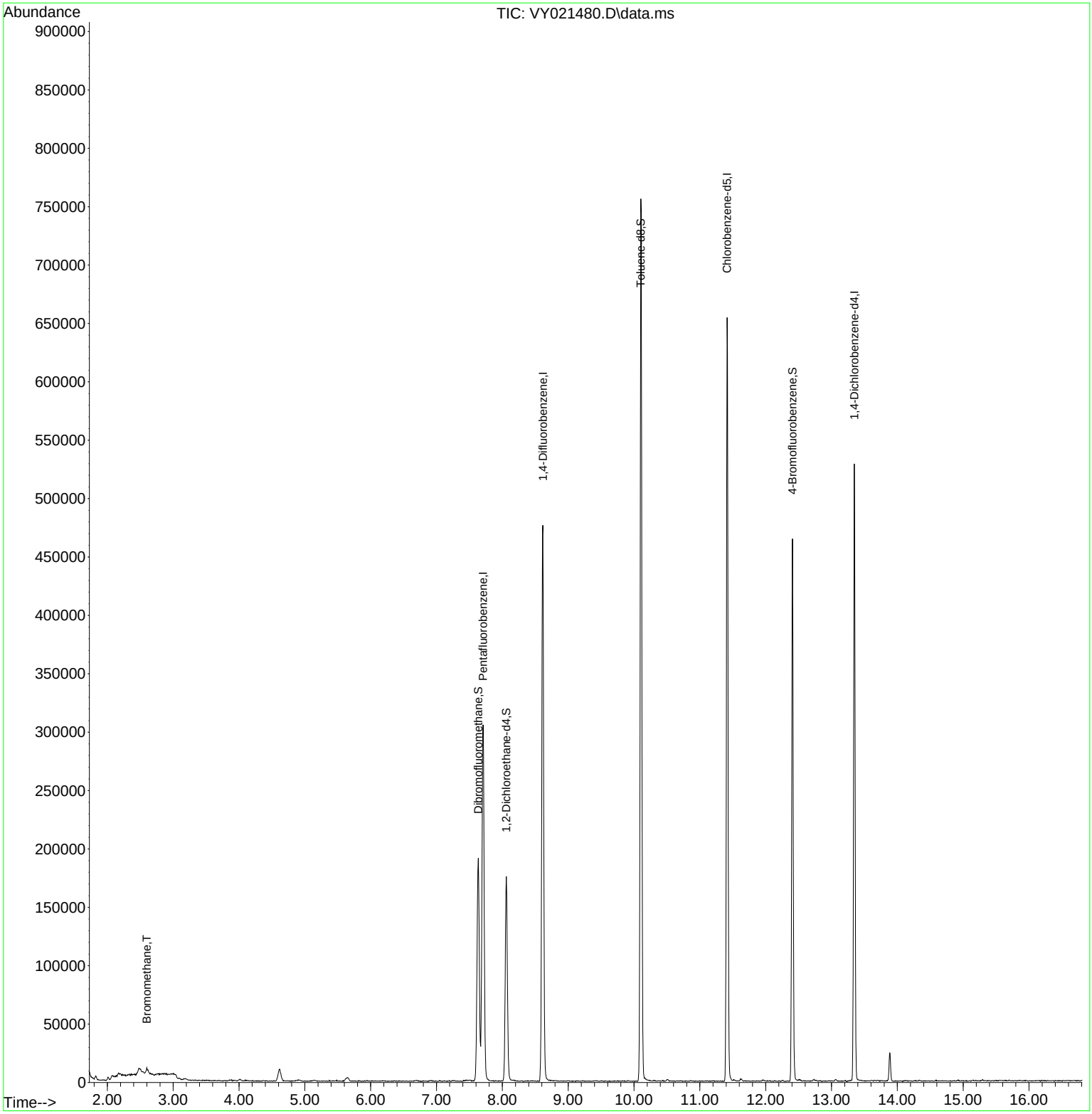
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	233794	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	402762	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	340384	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	126386	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	139449	56.433	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.860%			
35) Dibromofluoromethane	7.634	113	134348	50.747	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.500%			
50) Toluene-d8	10.103	98	479026	47.788	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.580%			
62) 4-Bromofluorobenzene	12.407	95	137856	40.430	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 80.860%			
Target Compounds						Qvalue
5) Bromomethane	2.598	94	2830	1.185	ug/l	90

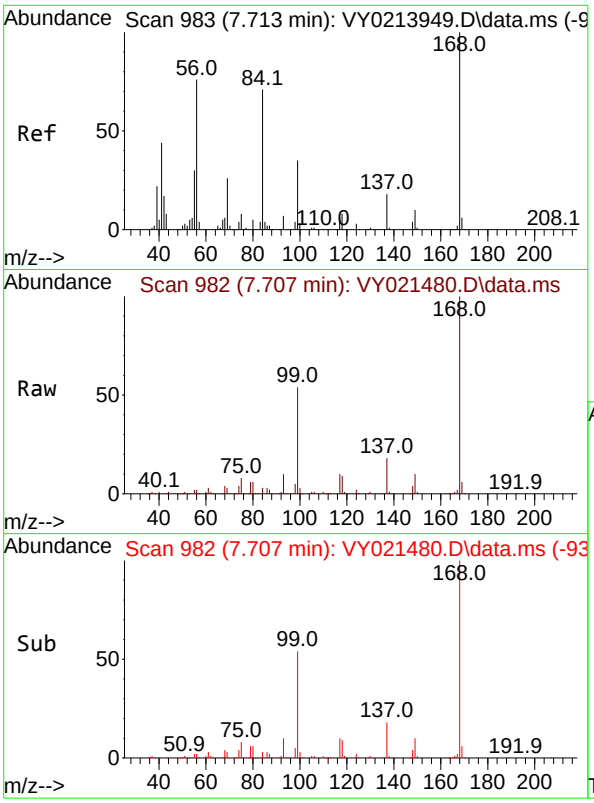
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021480.D
Acq On : 11 Mar 2025 12:48
Operator : SY/MD
Sample : Q1514-05
Misc : 7.66g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-103-SB01

Quant Time: Mar 12 01:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration



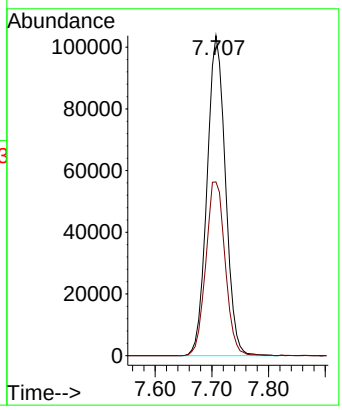


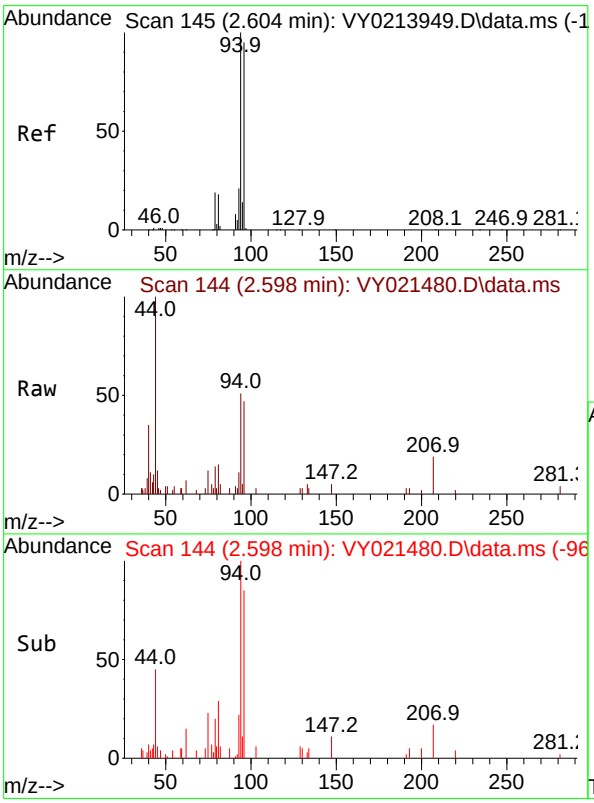
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021480.D
Acq: 11 Mar 2025 12:48

Instrument :
MSVOA_Y
ClientSampleId :
ENV-103-SB01

Tgt Ion:168 Resp: 233794

Ion	Ratio	Lower	Upper
168	100		
99	54.3	46.0	69.0

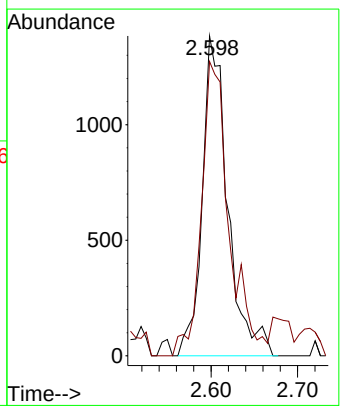


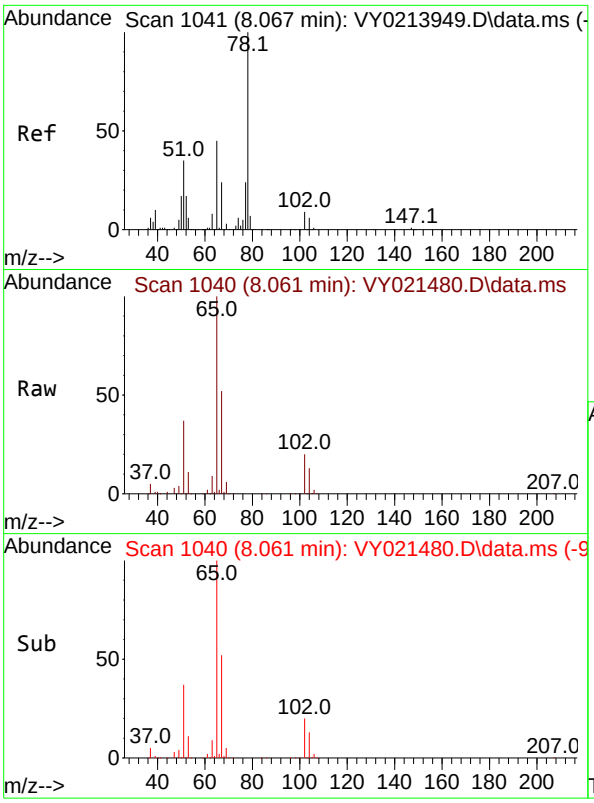


#5
Bromomethane
Concen: 1.185 ug/l
RT: 2.598 min Scan# 144
Delta R.T. -0.006 min
Lab File: VY021480.D
Acq: 11 Mar 2025 12:48

Tgt Ion: 94 Resp: 2830

Ion	Ratio	Lower	Upper
94	100		
96	85.9	76.3	114.5



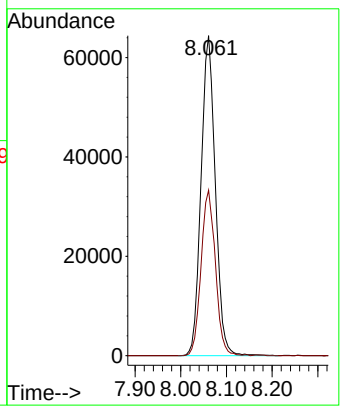


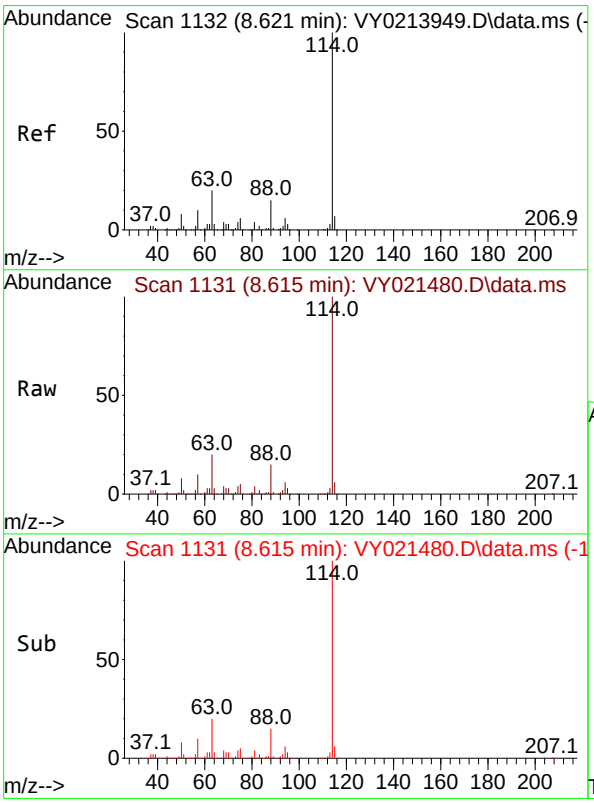
#33
1,2-Dichloroethane-d4
Concen: 56.433 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021480.D
Acq: 11 Mar 2025 12:48

Instrument :
MSVOA_Y
ClientSampleId :
ENV-103-SB01

Tgt Ion: 65 Resp: 139449

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	102.8

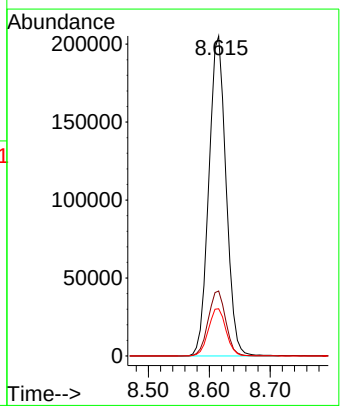


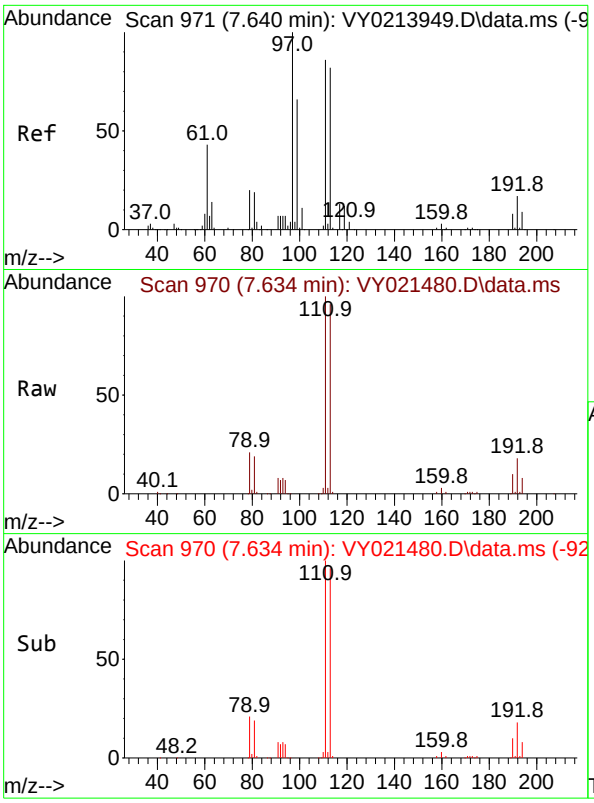


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VY021480.D
Acq: 11 Mar 2025 12:48

Tgt Ion:114 Resp: 402762

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.8
88	14.7	0.0	30.8



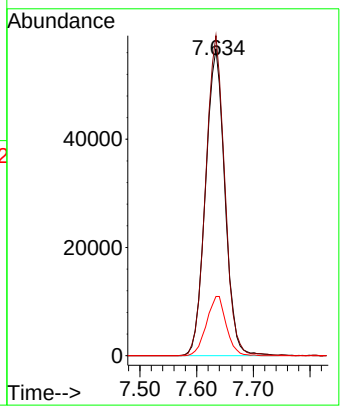


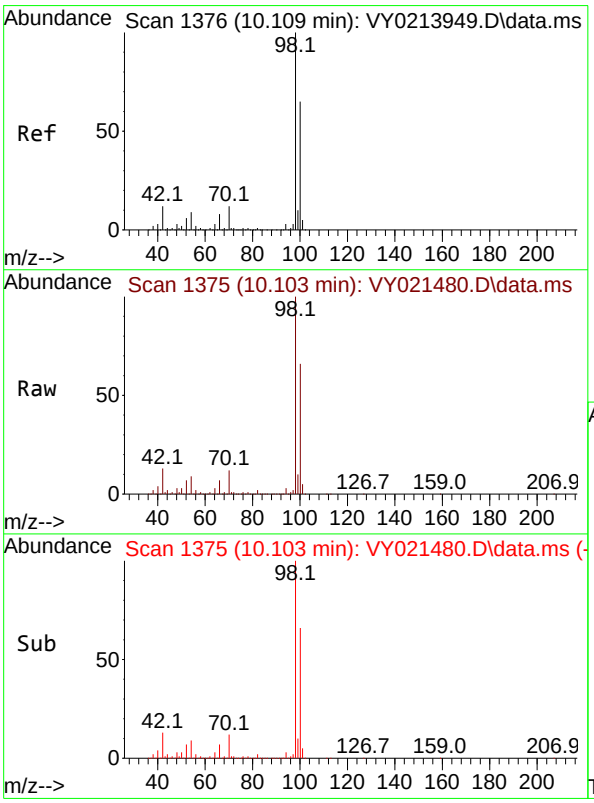
#35
Dibromofluoromethane
Concen: 50.747 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021480.D
Acq: 11 Mar 2025 12:48

Instrument :
MSVOA_Y
ClientSampleId :
ENV-103-SB01

Tgt Ion:113 Resp: 134348

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.0	123.0
192	19.7	15.9	23.9

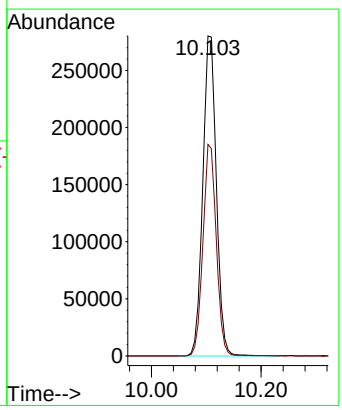


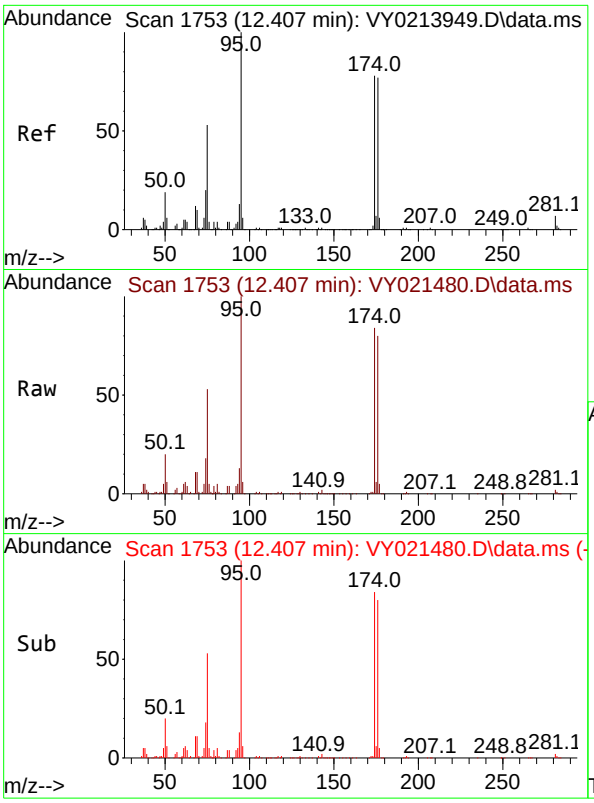


#50
Toluene-d8
Concen: 47.788 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021480.D
Acq: 11 Mar 2025 12:48

Tgt Ion: 98 Resp: 479026

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.1	78.1



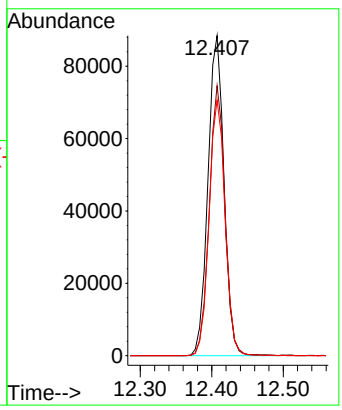


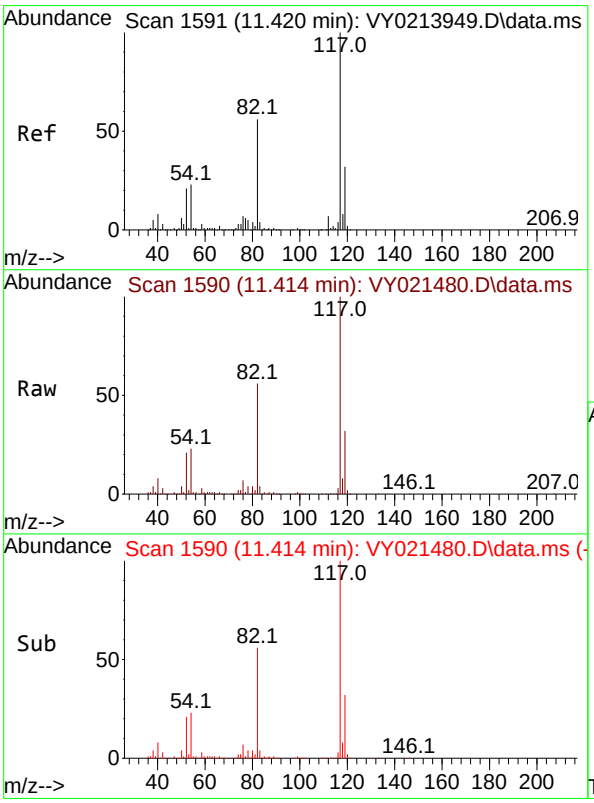
#62
4-Bromofluorobenzene
Concen: 40.430 ug/l
RT: 12.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021480.D
Acq: 11 Mar 2025 12:48

Instrument :
MSVOA_Y
ClientSampleId :
ENV-103-SB01

Tgt Ion: 95 Resp: 137856

Ion	Ratio	Lower	Upper
95	100		
174	82.8	0.0	165.0
176	79.4	0.0	160.0

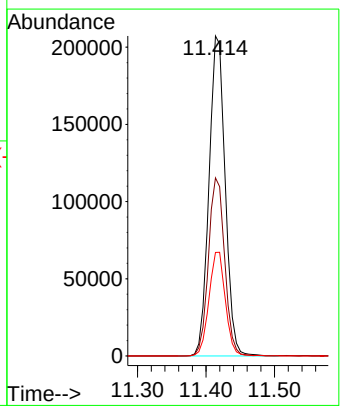


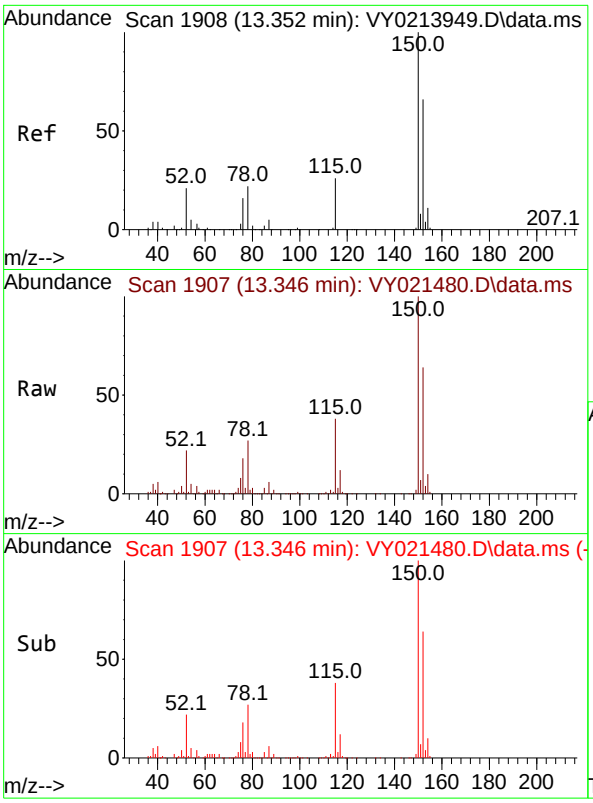


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021480.D
Acq: 11 Mar 2025 12:48

Tgt Ion:117 Resp: 340384

Ion	Ratio	Lower	Upper
117	100		
82	55.7	44.6	67.0
119	32.3	25.4	38.0



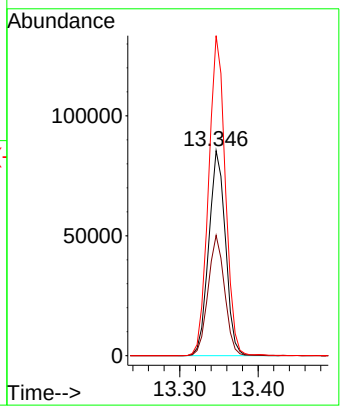


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021480.D
Acq: 11 Mar 2025 12:48

Instrument :
MSVOA_Y
ClientSampleId :
ENV-103-SB01

Tgt Ion:152 Resp: 126386

Ion	Ratio	Lower	Upper
152	100		
115	58.1	29.0	87.0
150	156.9	0.0	347.2



Sample Results: **VY021480.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021480.D
Acq On : 11 Mar 2025 12:48
Operator : SY/MD
Sample : Q1514-05
Misc : 7.66g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-103-SB01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Title : SW846 8260

Signal : TIC: VY021480.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	4.616	465	475	484	rBV4	10294	31550	2.44%	0.486%
2	7.634	957	970	976	rBV2	190944	460779	35.62%	7.103%
3	7.707	976	982	993	rVB	303838	698988	54.04%	10.775%
4	8.061	1030	1040	1052	rBV	175299	391100	30.24%	6.029%
5	8.615	1122	1131	1146	rBV	476211	962219	74.39%	14.833%
6	10.103	1367	1375	1384	rBV	755830	1293493	100.00%	19.939%
7	11.414	1582	1590	1602	rBV	654073	1080051	83.50%	16.649%
8	12.407	1746	1753	1766	rBV	464579	740301	57.23%	11.412%
9	13.346	1901	1907	1921	rVB	528062	787693	60.90%	12.142%
10	13.883	1987	1995	2003	rVB	24216	41014	3.17%	0.632%

Sum of corrected areas: 6487188

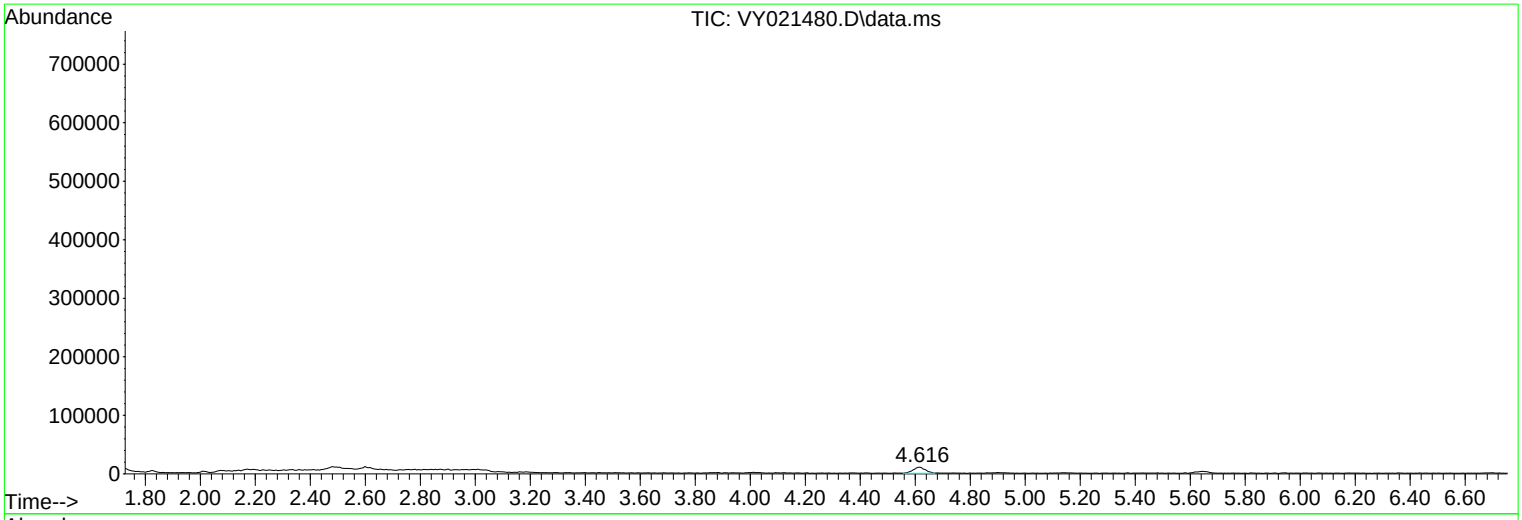
Sample Results: **VY021480.D**

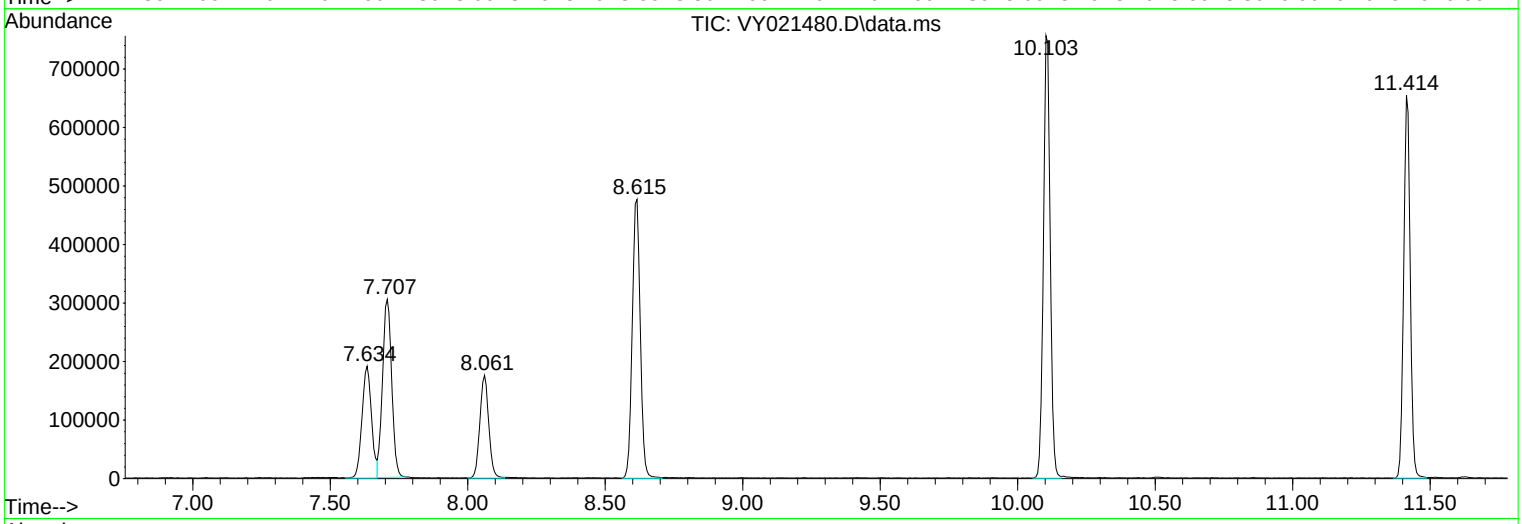
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021480.D
Acq On : 11 Mar 2025 12:48
Operator : SY/MD
Sample : Q1514-05
Misc : 7.66g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

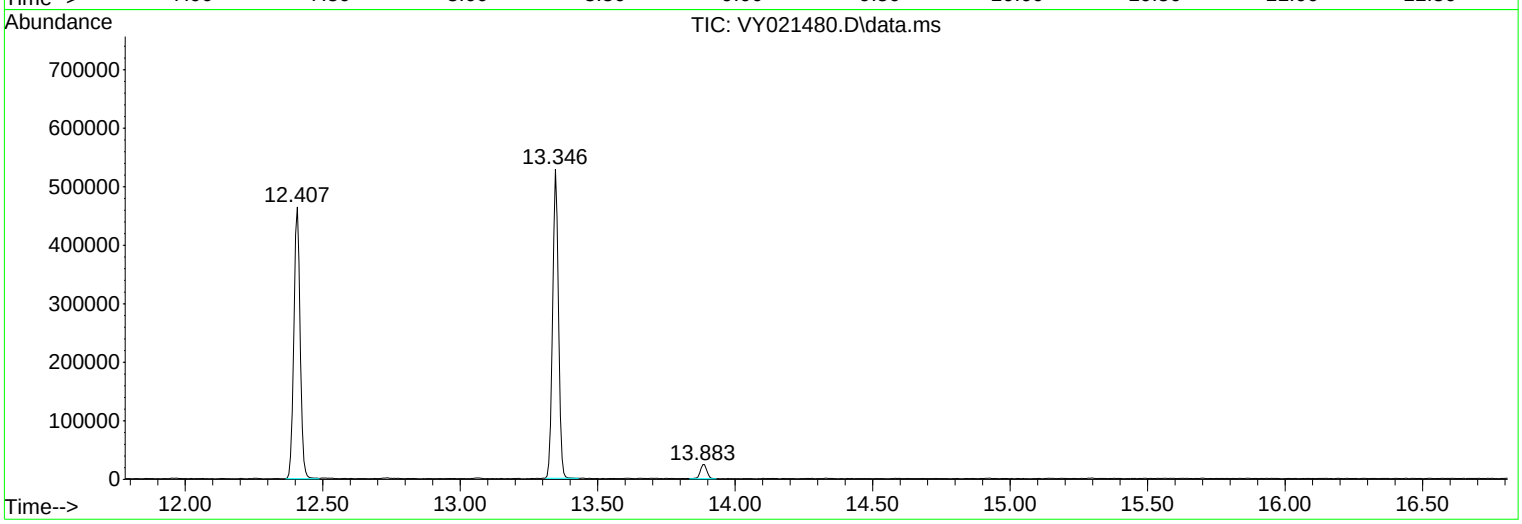
Instrument :
MSVOA_Y
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VY021480.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021480.D
Acq On : 11 Mar 2025 12:48
Operator : SY/MD
Sample : Q1514-05
Misc : 7.66g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021480.D
Acq On : 11 Mar 2025 12:48
Operator : SY/MD
Sample : Q1514-05
Misc : 7.66g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085919.D
Acq On : 10 Mar 2025 17:11
Operator : JC\MD
Sample : Q1514-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-GW01

Quant Time: Mar 11 01:39:49 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

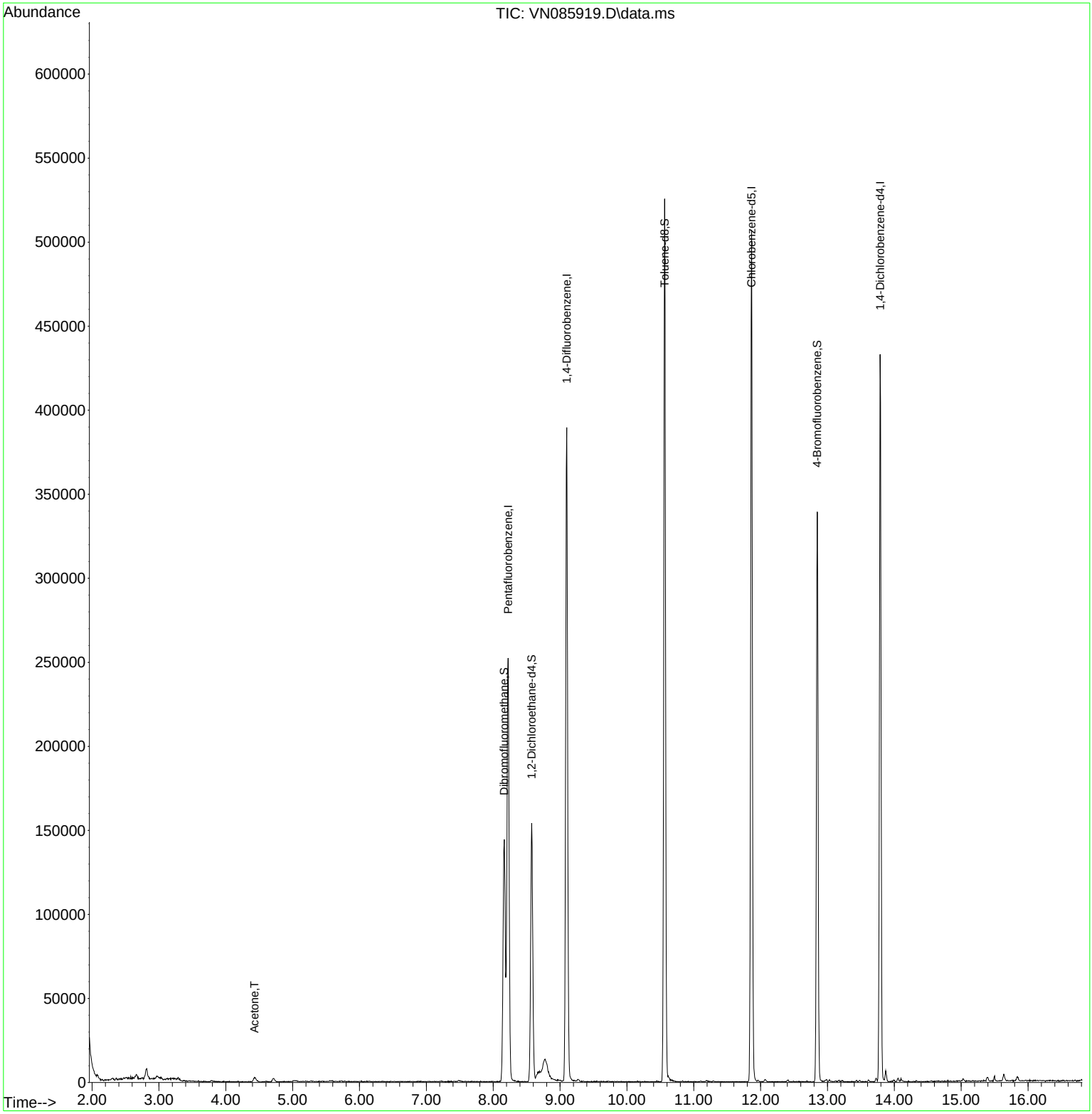
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	180602	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	336697	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	290159	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119785	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123756	52.855	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.700%			
35) Dibromofluoromethane	8.165	113	105753	48.000	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.000%			
50) Toluene-d8	10.565	98	364171	45.431	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 90.860%			
62) 4-Bromofluorobenzene	12.847	95	124468	47.128	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.260%			
Target Compounds						Qvalue
16) Acetone	4.430	43	5327	7.190	ug/l	96

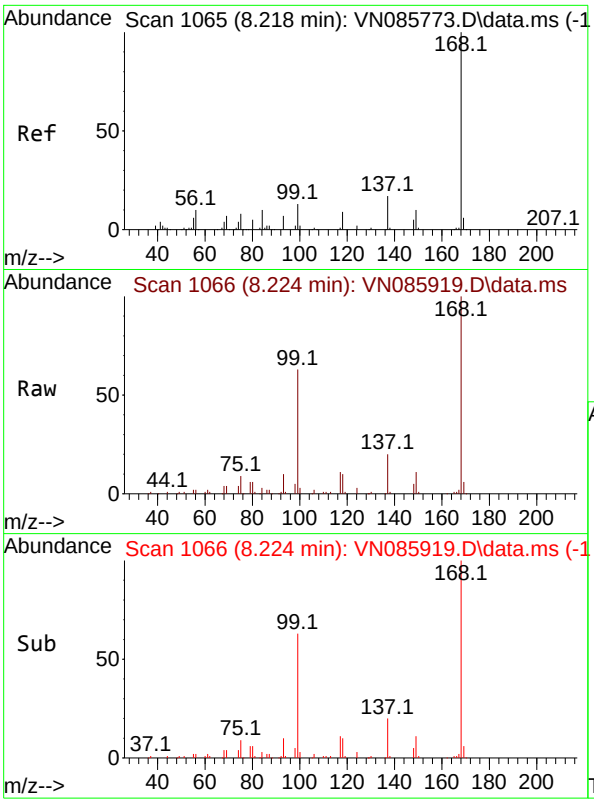
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085919.D
Acq On : 10 Mar 2025 17:11
Operator : JC\MD
Sample : Q1514-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-GW01

Quant Time: Mar 11 01:39:49 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



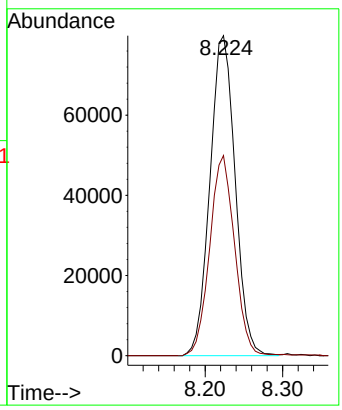


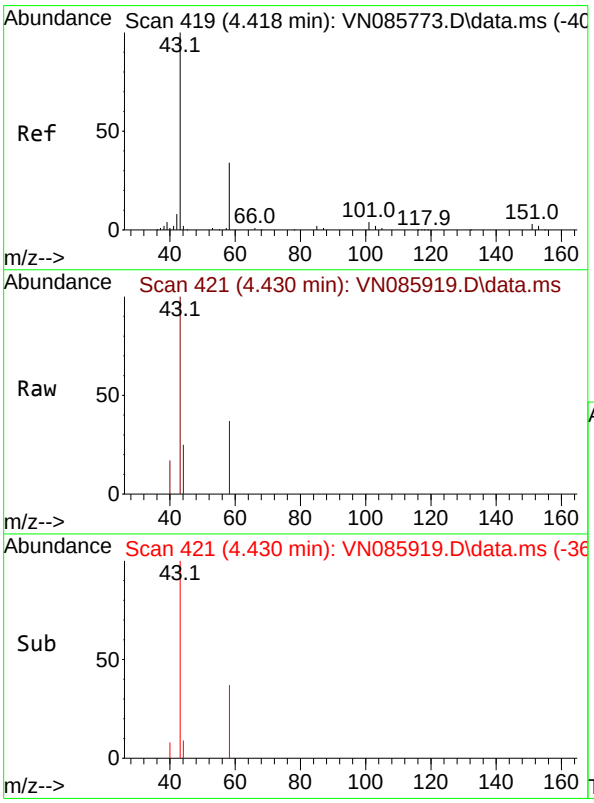
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085919.D
Acq: 10 Mar 2025 17:11

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-GW01

Tgt Ion:168 Resp: 180602

Ion	Ratio	Lower	Upper
168	100		
99	62.6	47.9	71.9

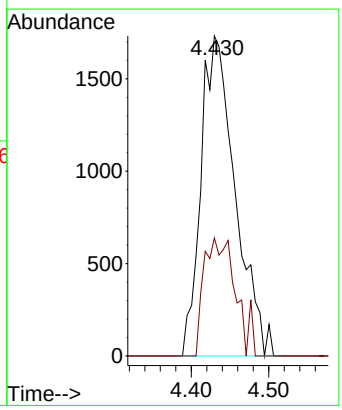


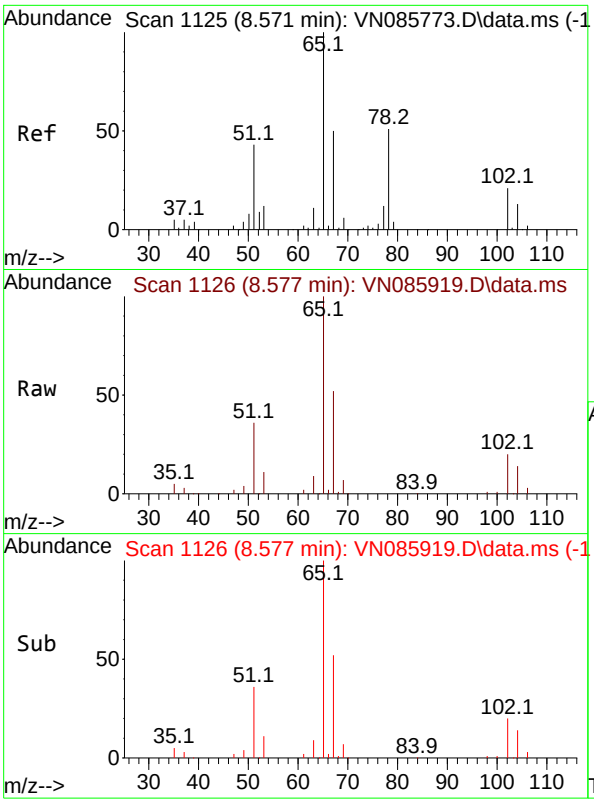


#16
Acetone
Concen: 7.190 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085919.D
Acq: 10 Mar 2025 17:11

Tgt Ion: 43 Resp: 5327

Ion	Ratio	Lower	Upper
43	100		
58	36.9	27.5	41.3



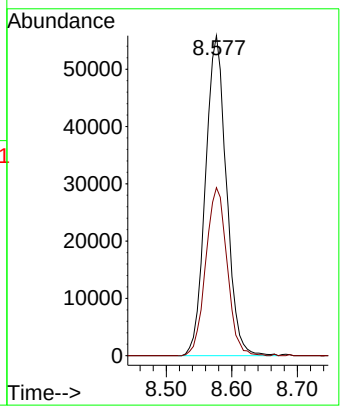


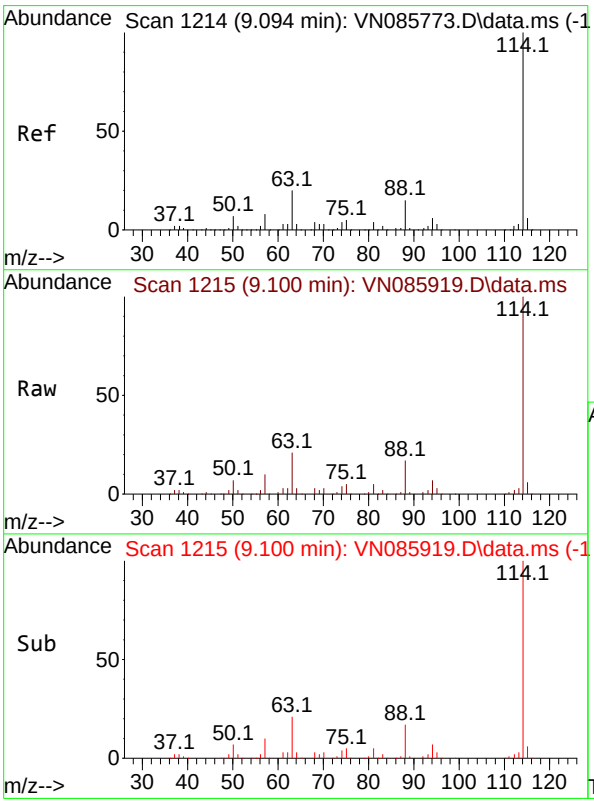
#33
1,2-Dichloroethane-d4
Concen: 52.855 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085919.D
Acq: 10 Mar 2025 17:11

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-GW01

Tgt Ion: 65 Resp: 123756

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	106.2

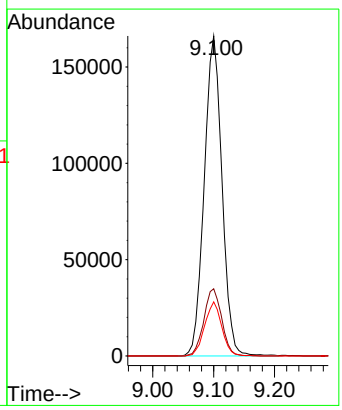


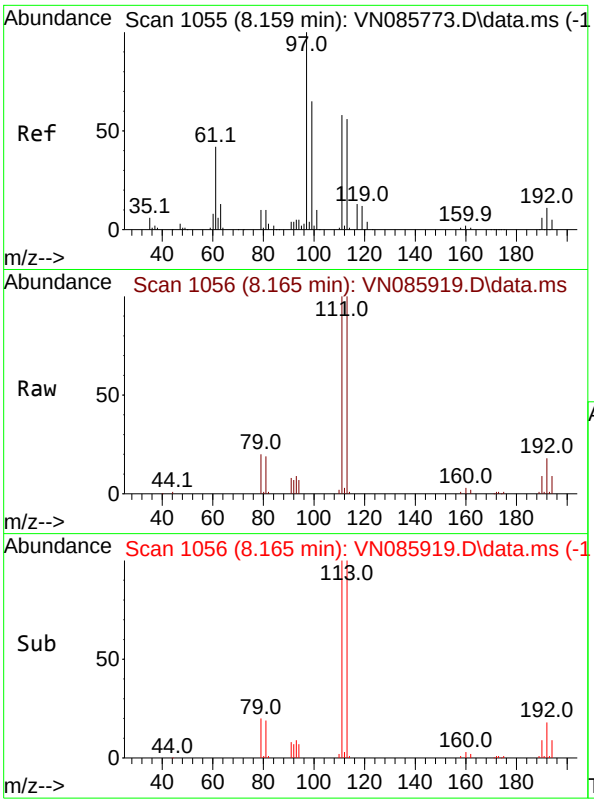


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085919.D
Acq: 10 Mar 2025 17:11

Tgt Ion:114 Resp: 336697

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	39.2
88	16.9	0.0	30.0



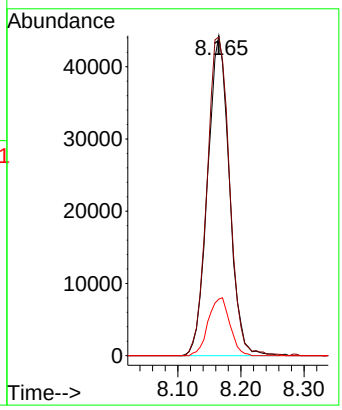


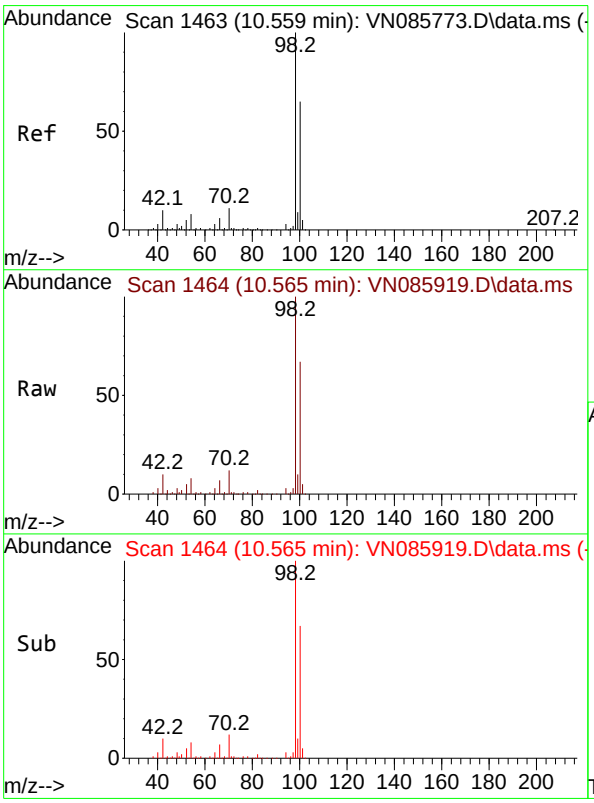
#35
Dibromofluoromethane
Concen: 48.000 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085919.D
Acq: 10 Mar 2025 17:11

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-GW01

Tgt Ion:113 Resp: 105753

Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.2	123.4
192	18.0	14.7	22.1

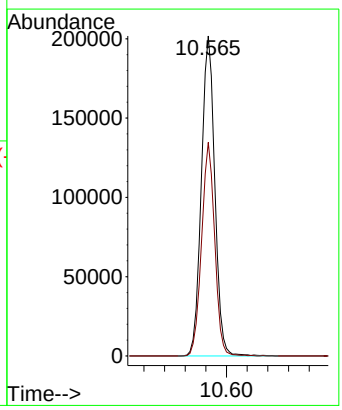


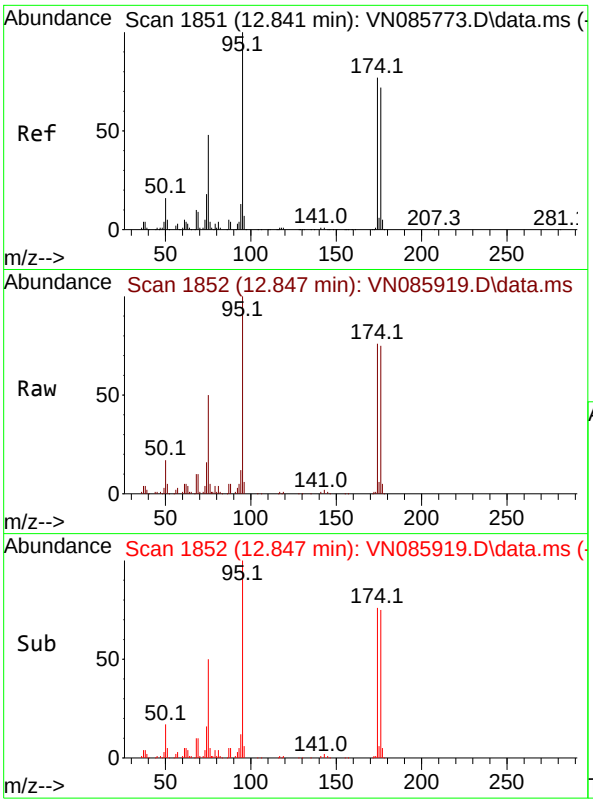


#50
Toluene-d8
Concen: 45.431 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085919.D
Acq: 10 Mar 2025 17:11

Tgt Ion: 98 Resp: 364171

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.1	78.1



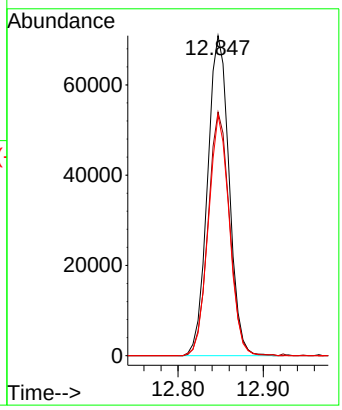


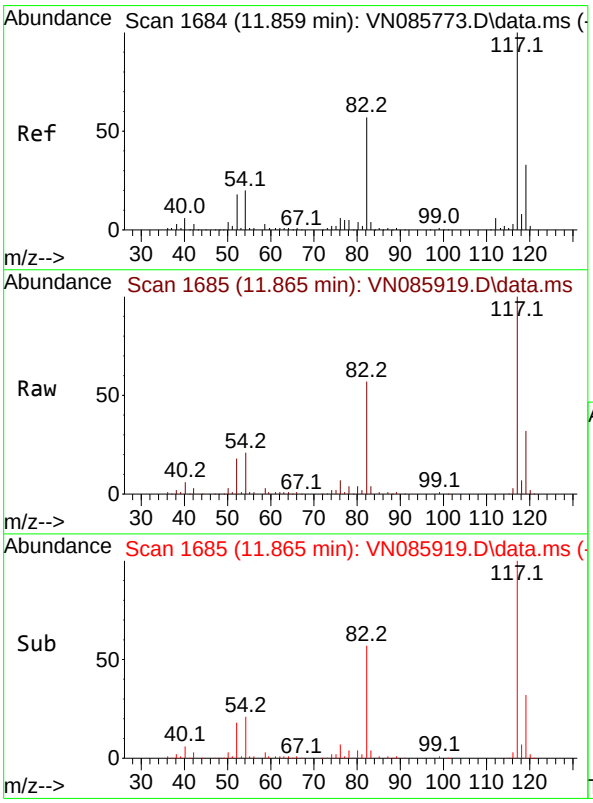
#62
4-Bromofluorobenzene
Concen: 47.128 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085919.D
Acq: 10 Mar 2025 17:11

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-GW01

Tgt Ion: 95 Resp: 124468

Ion	Ratio	Lower	Upper
95	100		
174	75.9	0.0	152.4
176	73.3	0.0	146.6

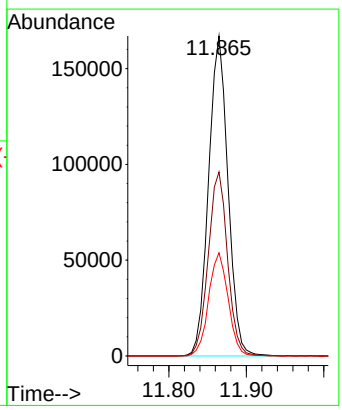


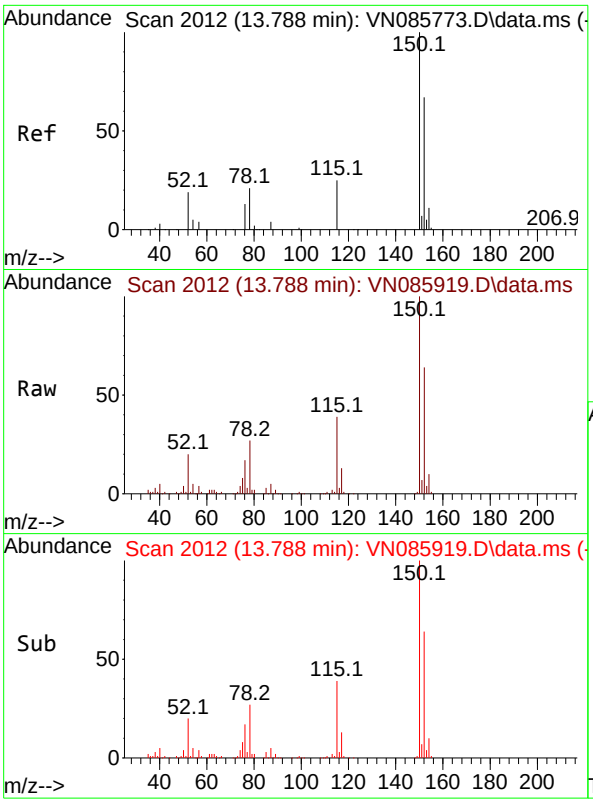


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085919.D
Acq: 10 Mar 2025 17:11

Tgt Ion:117 Resp: 290159

Ion	Ratio	Lower	Upper
117	100		
82	57.5	45.7	68.5
119	32.3	26.2	39.2



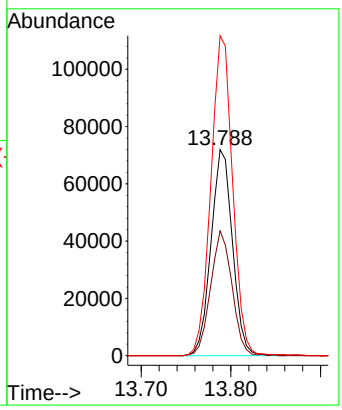


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085919.D
Acq: 10 Mar 2025 17:11

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-GW01

Tgt Ion:152 Resp: 119785

Ion	Ratio	Lower	Upper
152	100		
115	60.4	30.4	91.3
150	157.2	0.0	345.4



Sample Results: **VN085919.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085919.D
Acq On : 10 Mar 2025 17:11
Operator : JC\MD
Sample : Q1514-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-GW01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085919.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.818	140	147	155	rVB3	6264	14928	1.59%	0.285%
2	8.165	1046	1056	1060	rBV2	144008	336826	35.78%	6.440%
3	8.224	1060	1066	1079	rVB	251507	567252	60.25%	10.846%
4	8.577	1117	1126	1135	rBV	153789	340336	36.15%	6.507%
5	8.777	1153	1160	1176	rVB4	11846	53720	5.71%	1.027%
6	9.100	1207	1215	1231	rVB	388751	785421	83.42%	15.017%
7	10.565	1456	1464	1478	rBV	525254	941485	100.00%	18.001%
8	11.865	1675	1685	1699	rBV	506884	883183	93.81%	16.887%
9	12.847	1844	1852	1861	rBV	339194	586657	62.31%	11.217%
10	13.788	2005	2012	2023	rBV	432438	720270	76.50%	13.772%

Sum of corrected areas: 5230078

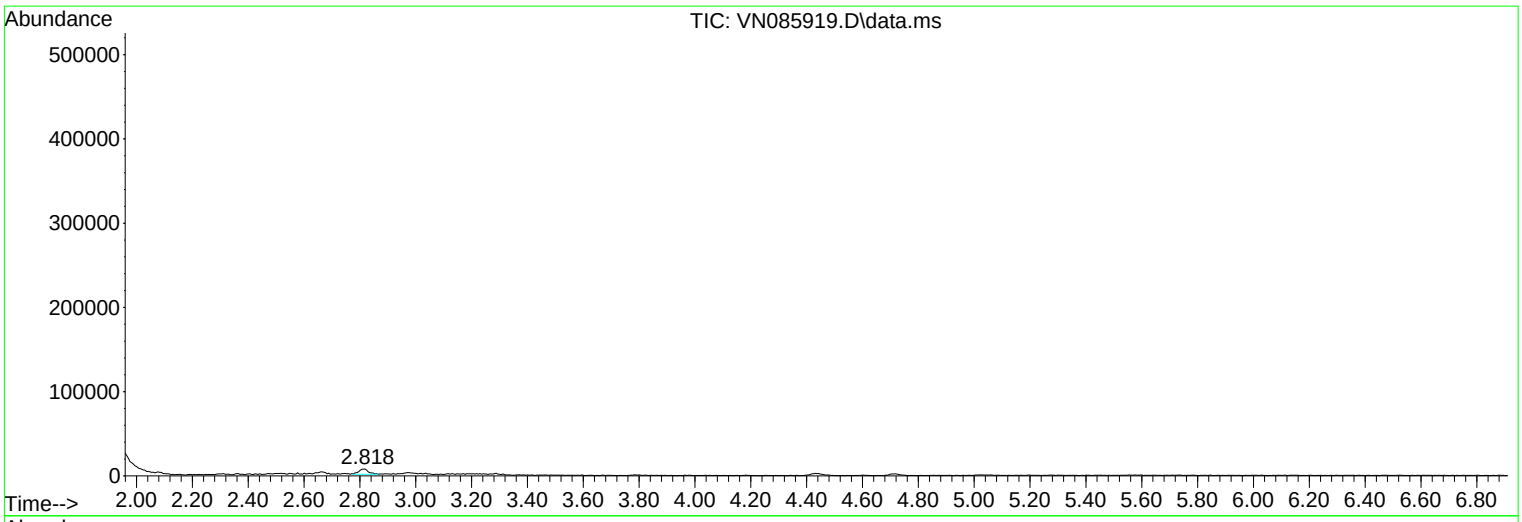
Sample Results: **VN085919.D**

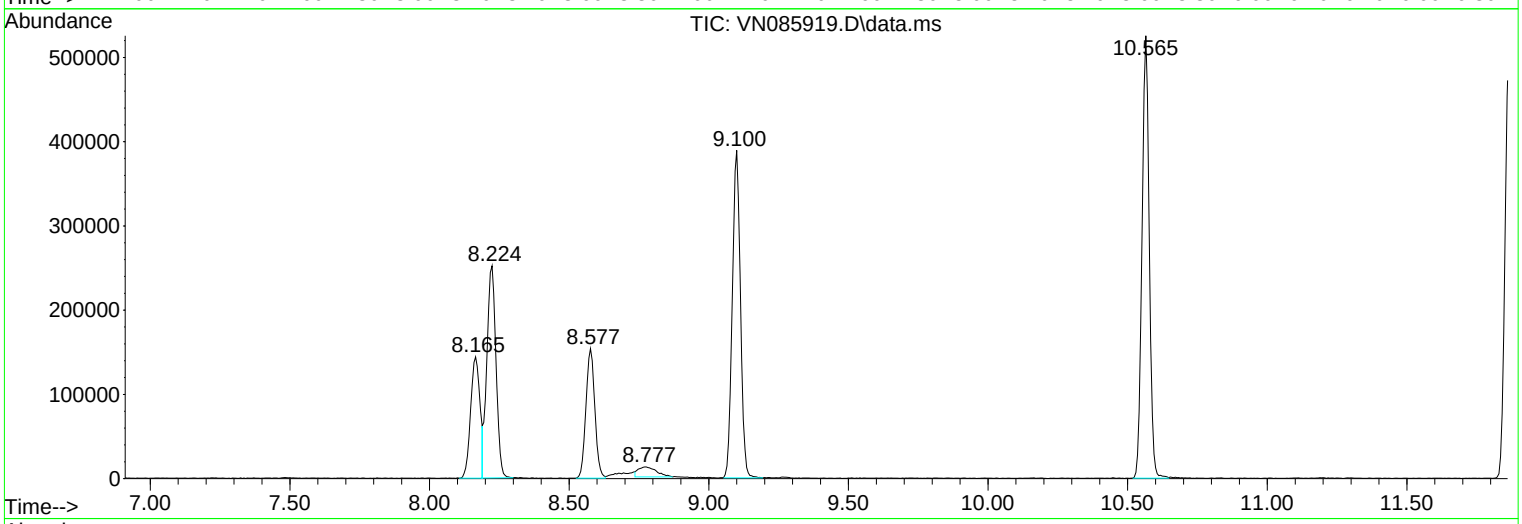
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085919.D
Acq On : 10 Mar 2025 17:11
Operator : JC\MD
Sample : Q1514-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

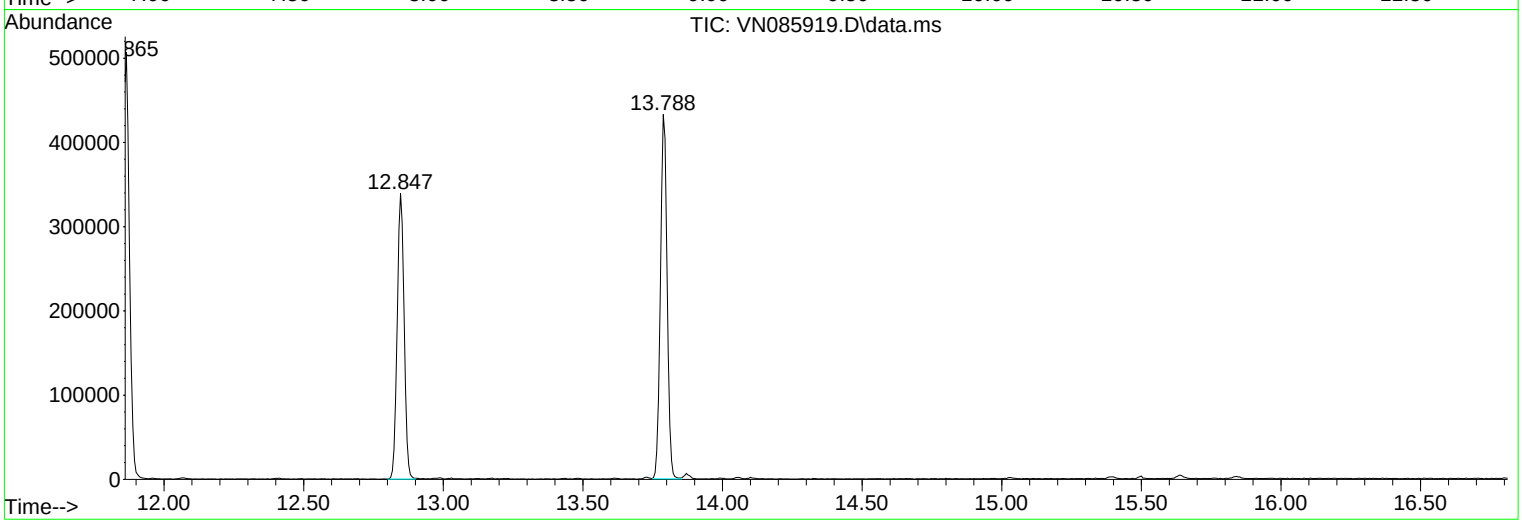
Instrument :
MSVOA_N
ClientSampleId :
ENV-105-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085919.D
Acq On : 10 Mar 2025 17:11
Operator : JC\MD
Sample : Q1514-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085919.D
Acq On : 10 Mar 2025 17:11
Operator : JC\MD
Sample : Q1514-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-105-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085920.D
Acq On : 10 Mar 2025 17:35
Operator : JC\MD
Sample : Q1514-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-GW01

Quant Time: Mar 11 01:40:22 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

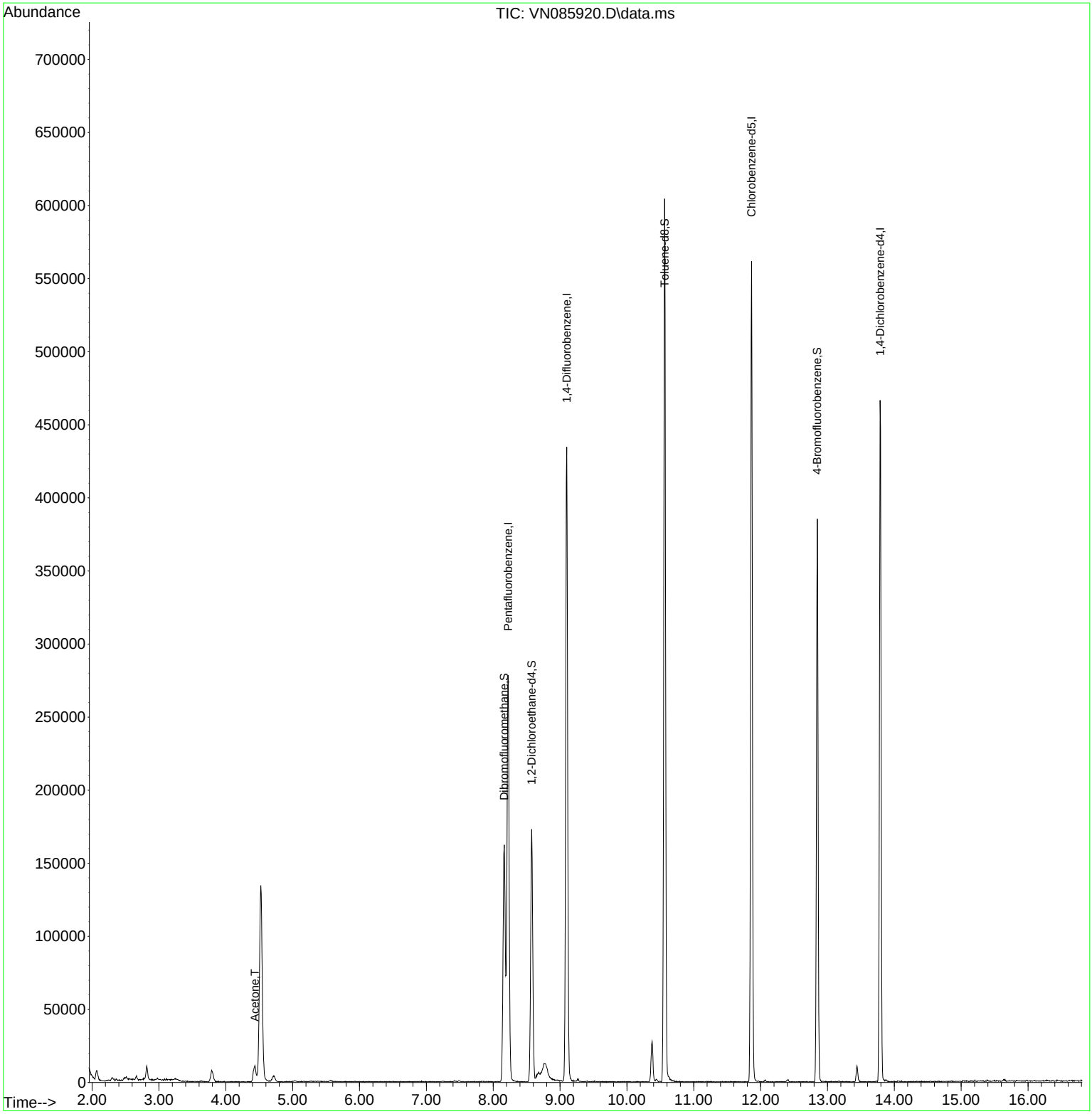
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	199177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	373736	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	326066	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130206	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	138417	53.603	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.200%			
35) Dibromofluoromethane	8.165	113	118331	48.386	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.780%			
50) Toluene-d8	10.565	98	424658	47.727	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.460%			
62) 4-Bromofluorobenzene	12.847	95	137377	46.861	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.720%			
Target Compounds						Qvalue
16) Acetone	4.436	43	21342	26.120	ug/l	97

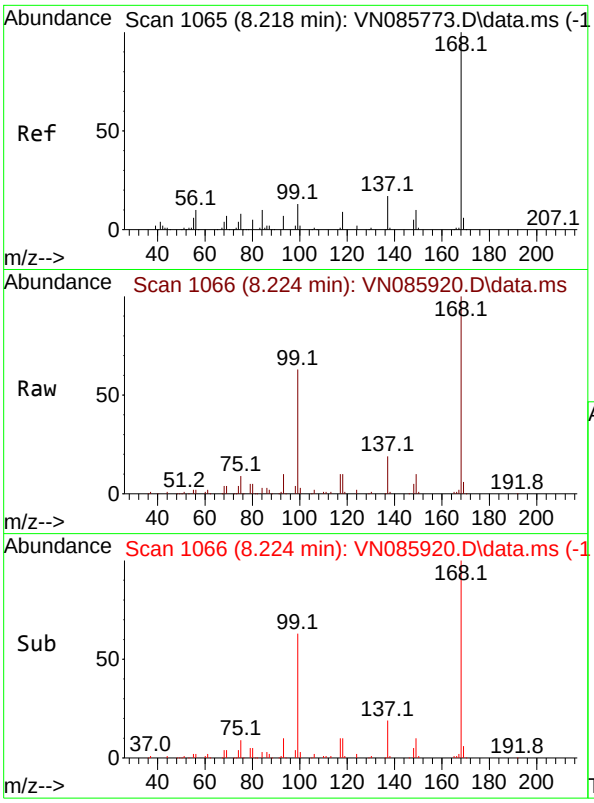
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085920.D
Acq On : 10 Mar 2025 17:35
Operator : JC\MD
Sample : Q1514-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-GW01

Quant Time: Mar 11 01:40:22 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



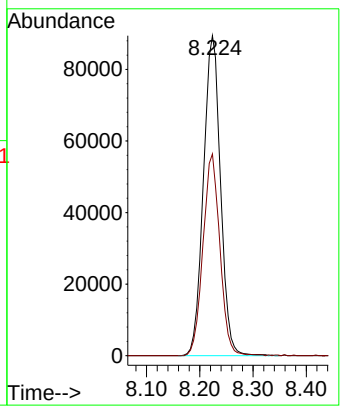


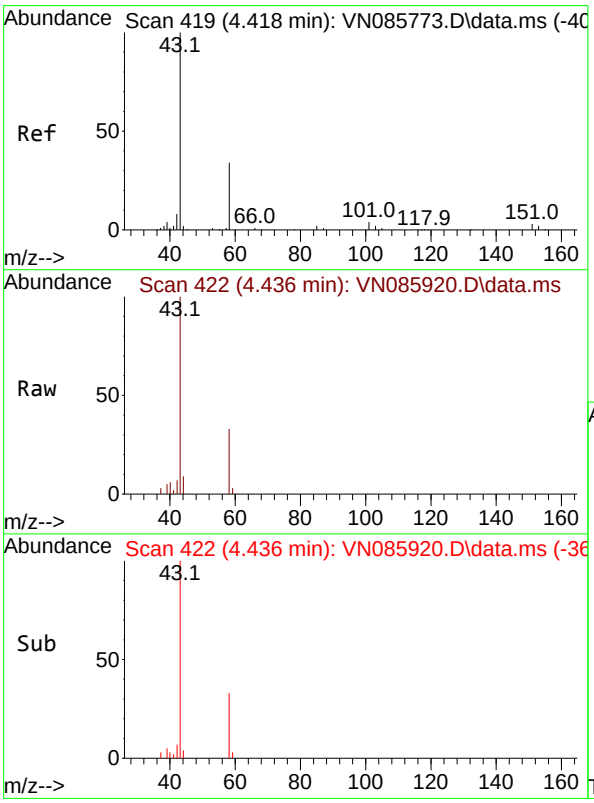
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085920.D
Acq: 10 Mar 2025 17:35

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-GW01

Tgt Ion:168 Resp: 199177

Ion	Ratio	Lower	Upper
168	100		
99	63.1	47.9	71.9

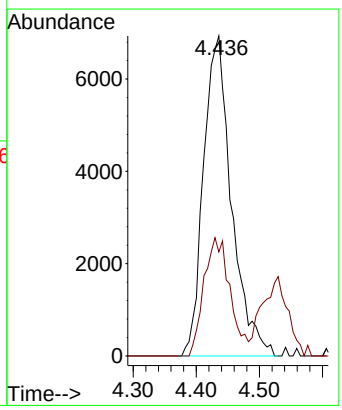


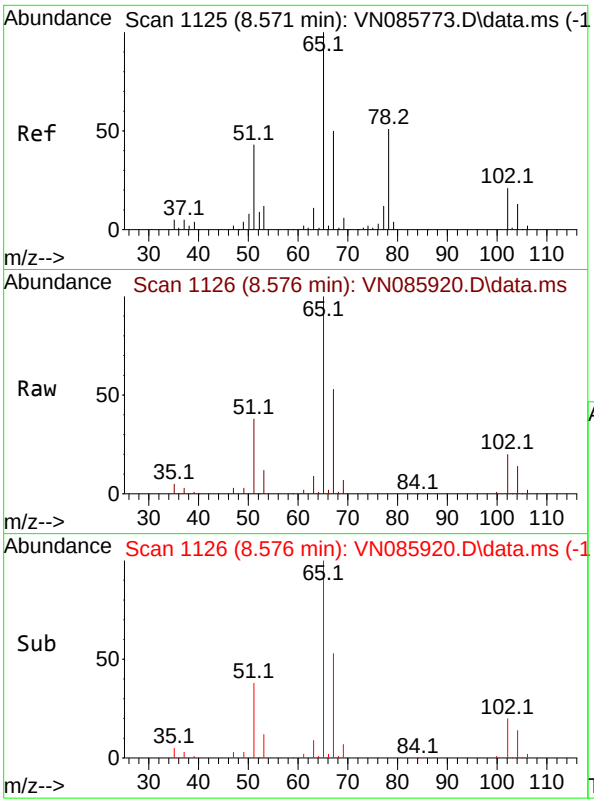


#16
Acetone
Concen: 26.120 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.017 min
Lab File: VN085920.D
Acq: 10 Mar 2025 17:35

Tgt Ion: 43 Resp: 21342

Ion	Ratio	Lower	Upper
43	100		
58	32.5	27.5	41.3



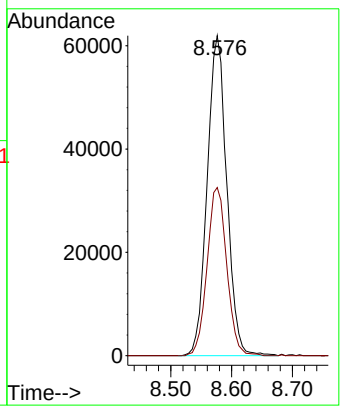


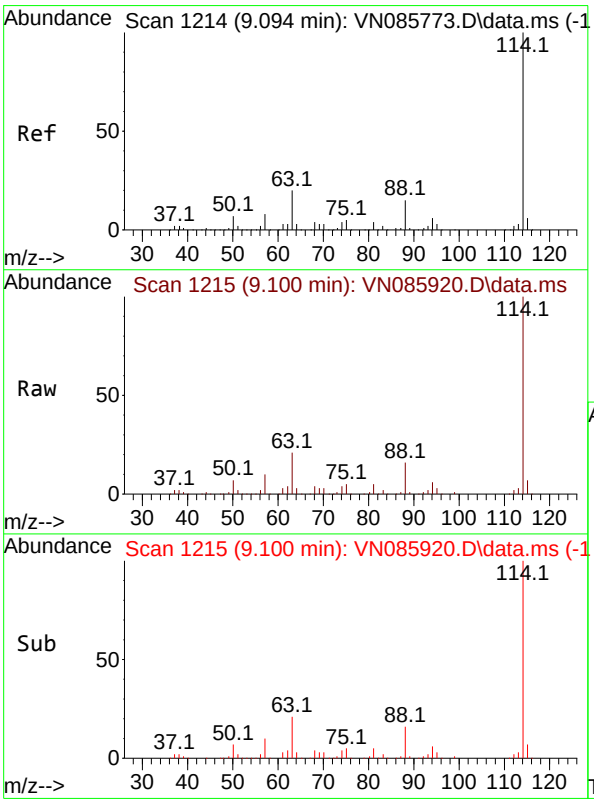
#33
1,2-Dichloroethane-d4
Concen: 53.603 ug/l
RT: 8.576 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085920.D
Acq: 10 Mar 2025 17:35

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-GW01

Tgt Ion: 65 Resp: 138417

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.2

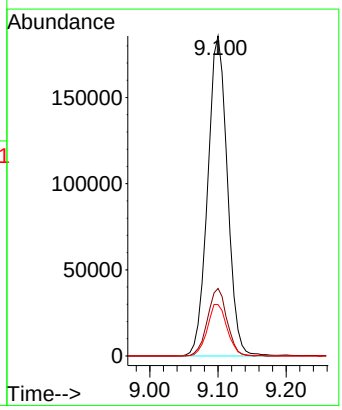


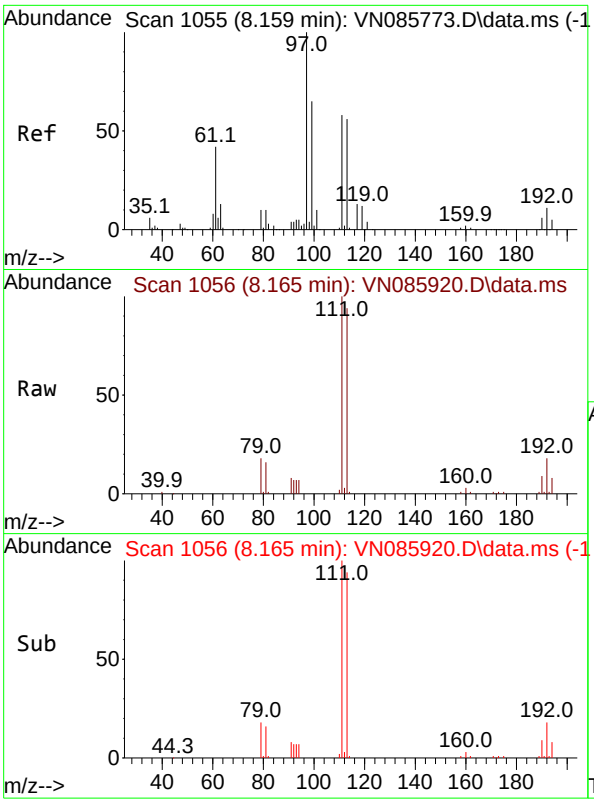


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085920.D
Acq: 10 Mar 2025 17:35

Tgt Ion:114 Resp: 373736

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	39.2
88	16.1	0.0	30.0



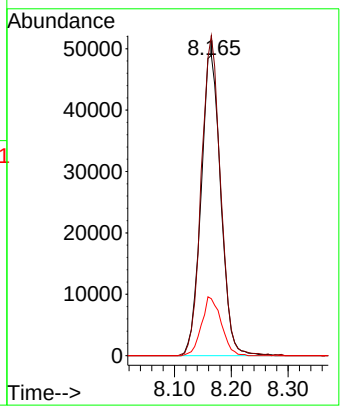


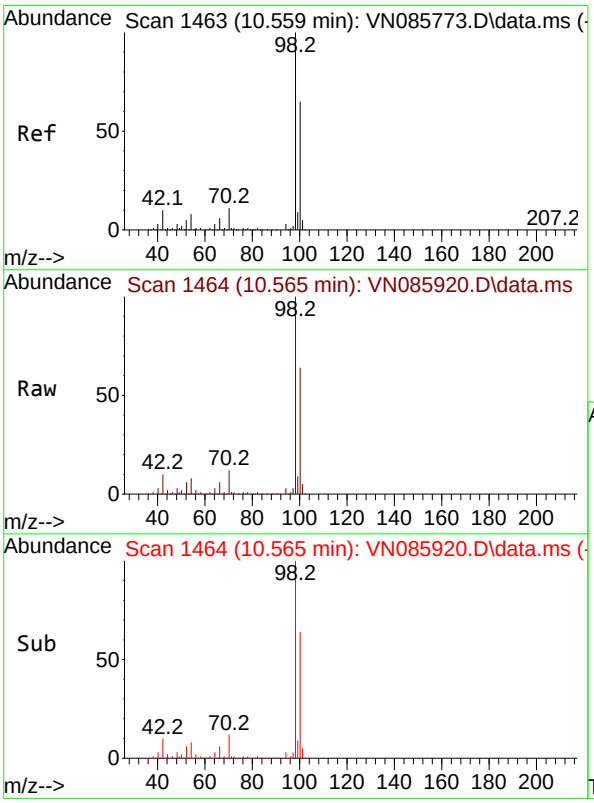
#35
Dibromofluoromethane
Concen: 48.386 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085920.D
Acq: 10 Mar 2025 17:35

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-GW01

Tgt Ion:113 Resp: 118331

Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.2	123.4
192	19.4	14.7	22.1

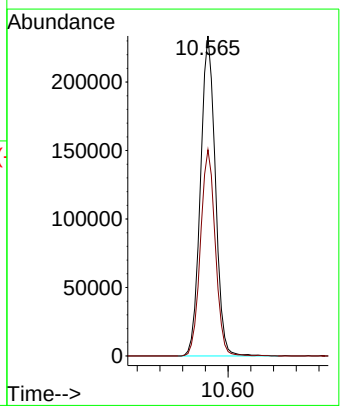


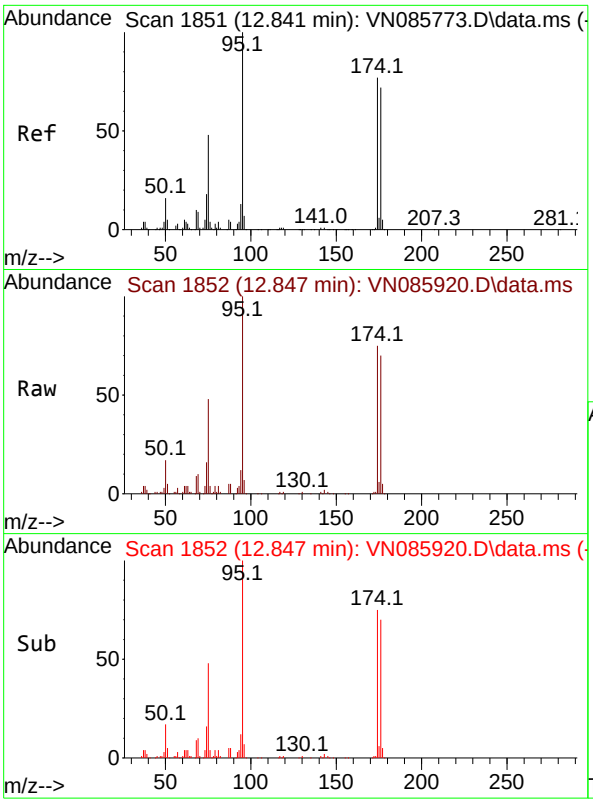


#50
Toluene-d8
Concen: 47.727 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085920.D
Acq: 10 Mar 2025 17:35

Tgt Ion: 98 Resp: 424658

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.1	78.1



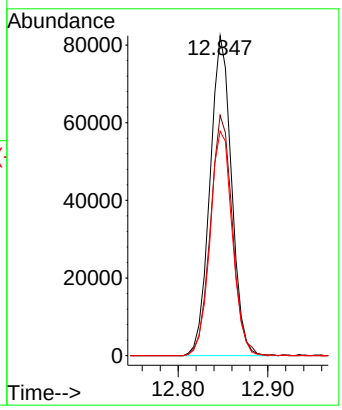


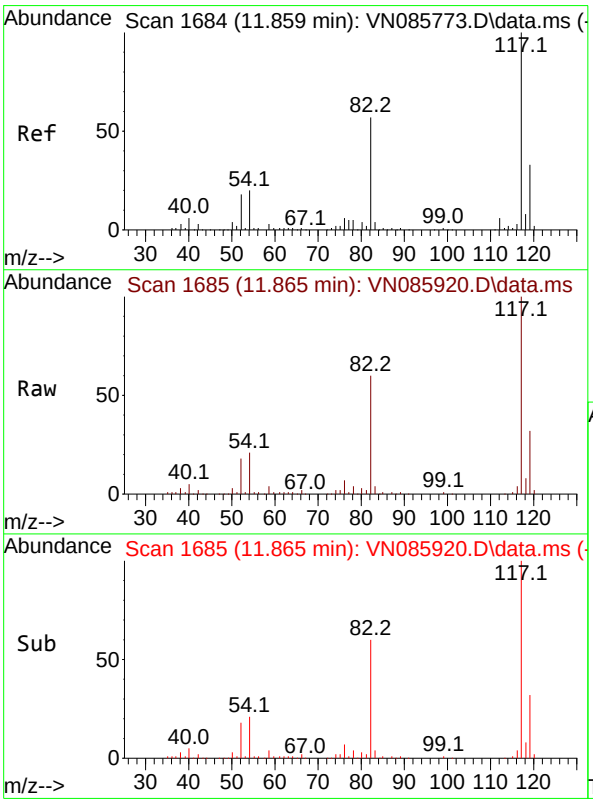
#62
4-Bromofluorobenzene
Concen: 46.861 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085920.D
Acq: 10 Mar 2025 17:35

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-GW01

Tgt Ion: 95 Resp: 137377

Ion	Ratio	Lower	Upper
95	100		
174	76.5	0.0	152.4
176	72.3	0.0	146.6

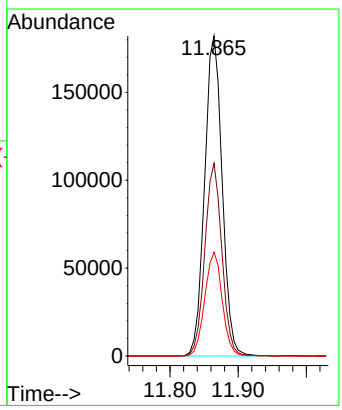


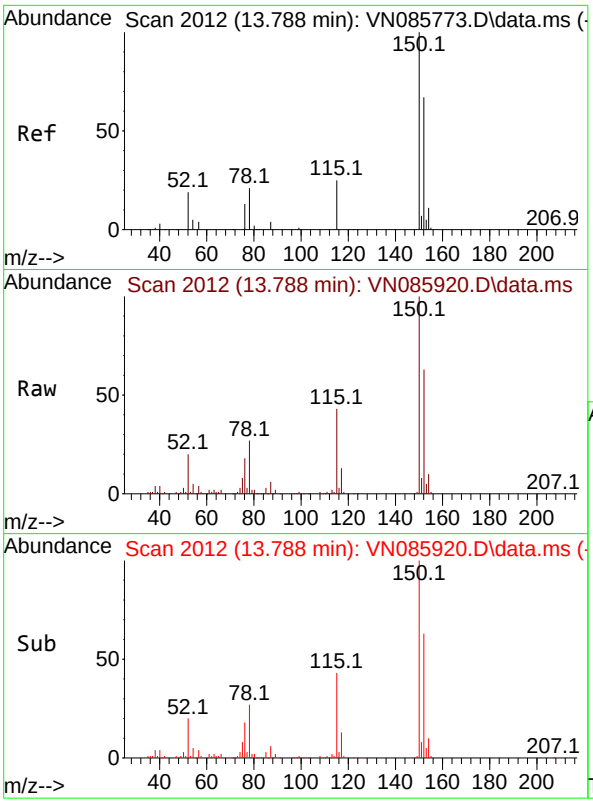


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085920.D
Acq: 10 Mar 2025 17:35

Tgt Ion:117 Resp: 326066

Ion	Ratio	Lower	Upper
117	100		
82	60.2	45.7	68.5
119	32.4	26.2	39.2



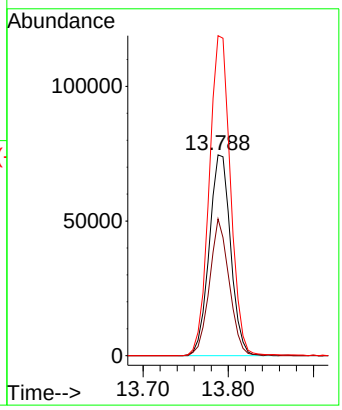


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085920.D
Acq: 10 Mar 2025 17:35

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-GW01

Tgt Ion:152 Resp: 130206

Ion	Ratio	Lower	Upper
152	100		
115	62.6	30.4	91.3
150	158.3	0.0	345.4



Sample Results: **VN085920.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085920.D
Acq On : 10 Mar 2025 17:35
Operator : JC\MD
Sample : Q1514-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-GW01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085920.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.071	15	20	26	rVB6	6614	14181	1.29%	0.224%
2	2.818	142	147	154	rVB3	9277	16374	1.49%	0.259%
3	3.789	304	312	322	rVB	8122	22052	2.01%	0.348%
4	4.436	411	422	427	rBV2	11376	32419	2.95%	0.512%
5	4.524	427	437	454	rVB2	133889	391867	35.69%	6.189%
6	8.165	1044	1056	1060	rBV	162247	378079	34.43%	5.972%
7	8.224	1060	1066	1077	rVB	277134	626072	57.02%	9.889%
8	8.576	1116	1126	1134	rBV	172737	376625	34.30%	5.949%
9	9.100	1204	1215	1231	rVB	434044	873552	79.56%	13.797%
10	10.376	1423	1432	1440	rBV2	27582	55178	5.03%	0.872%
11	10.565	1456	1464	1475	rBV	604383	1097992	100.00%	17.342%
12	11.865	1677	1685	1697	rBV	561434	989269	90.10%	15.625%
13	12.847	1845	1852	1863	rBV	385235	649305	59.14%	10.255%
14	13.441	1947	1953	1961	rVB2	10906	18740	1.71%	0.296%
15	13.788	2005	2012	2021	rBV	466378	789600	71.91%	12.471%

Sum of corrected areas: 6331305

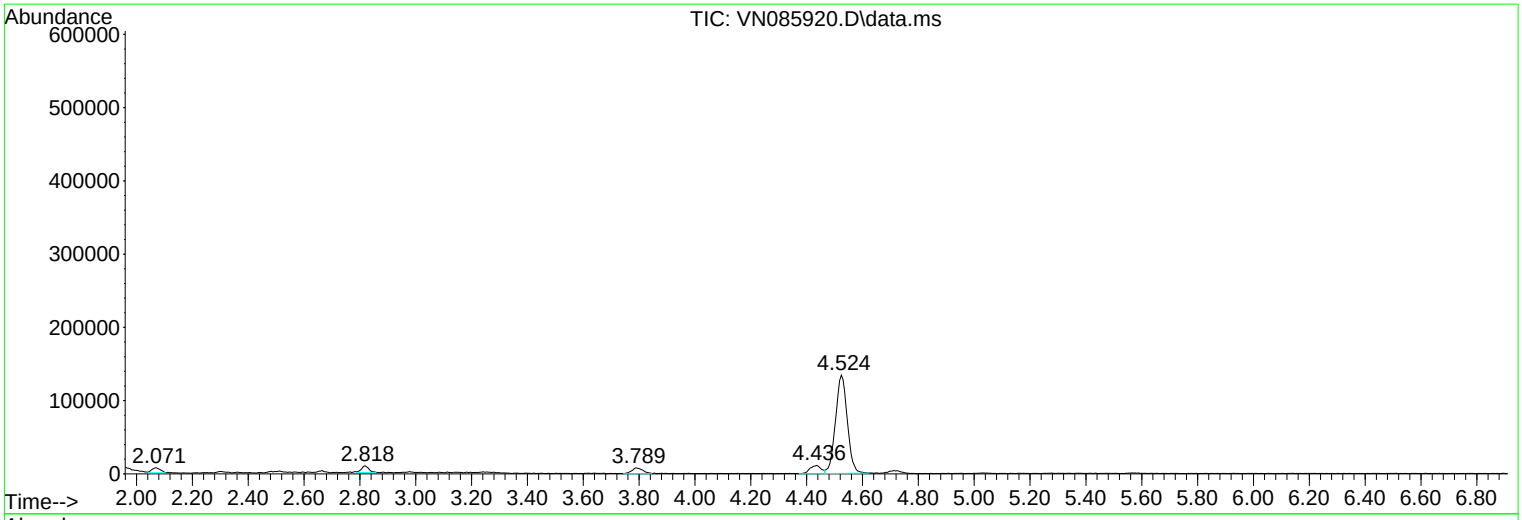
Sample Results: **VN085920.D**

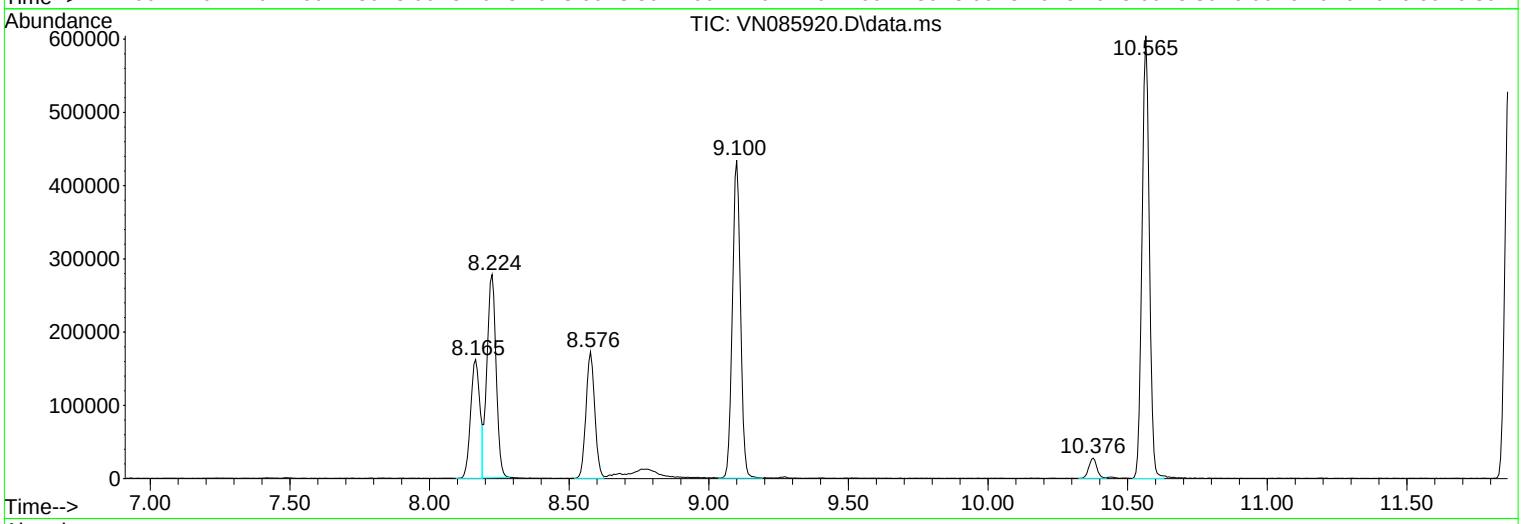
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085920.D
Acq On : 10 Mar 2025 17:35
Operator : JC\MD
Sample : Q1514-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

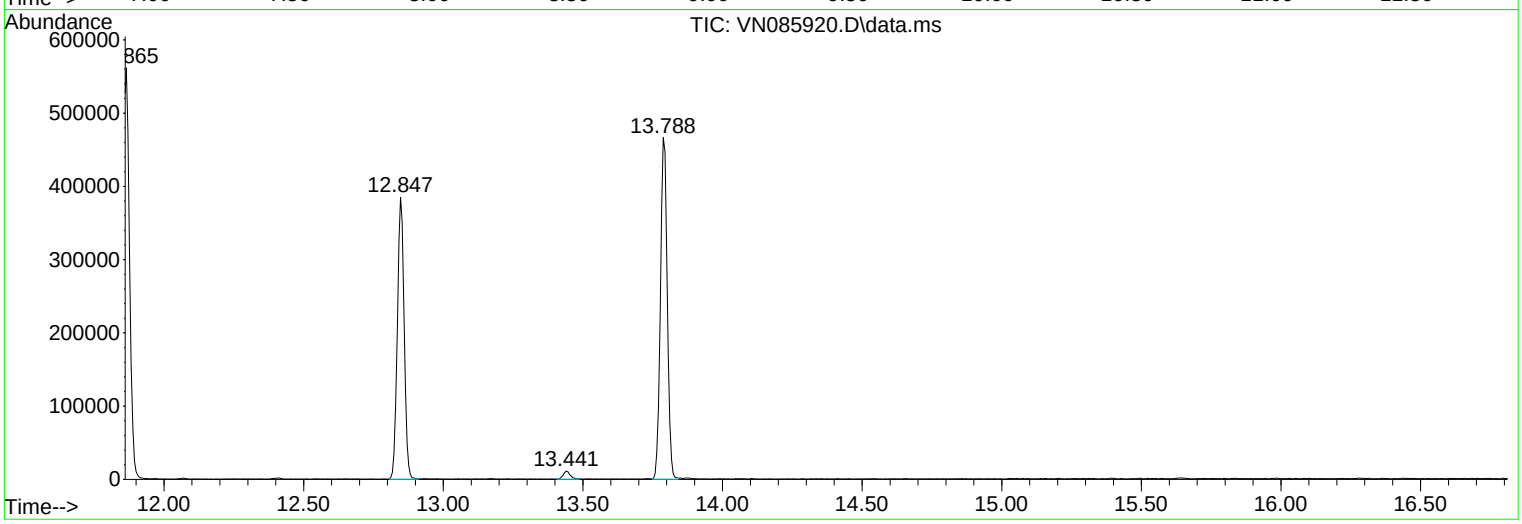
Instrument :
MSVOA_N
ClientSampleId :
ENV-103-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085920.D
Acq On : 10 Mar 2025 17:35
Operator : JC\MD
Sample : Q1514-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-GW01

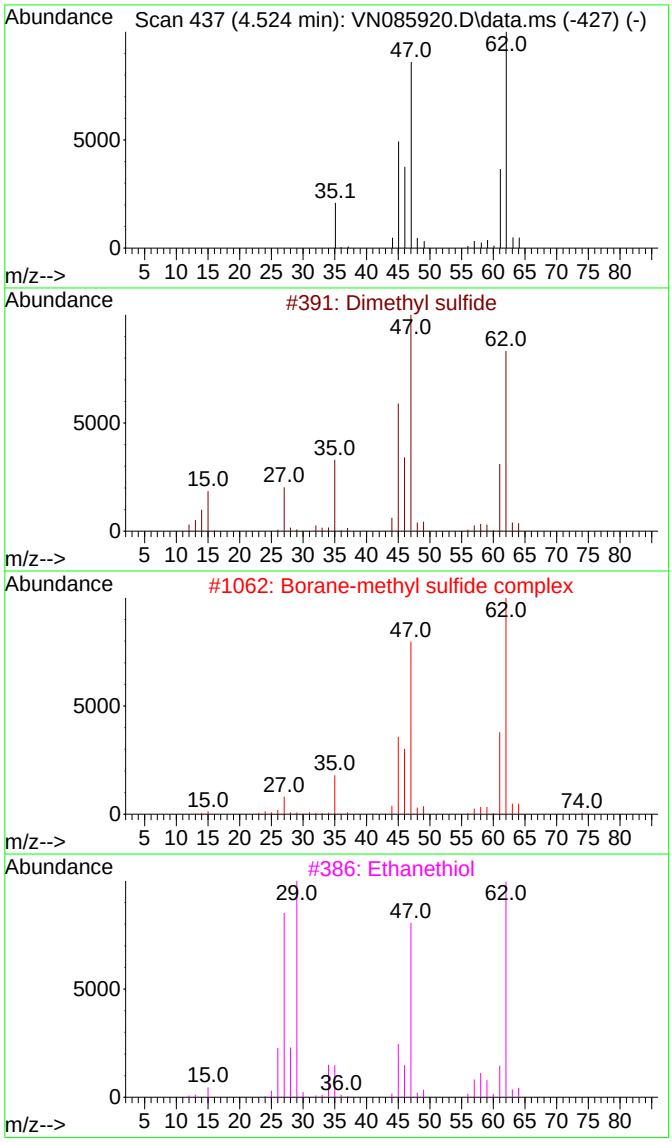
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

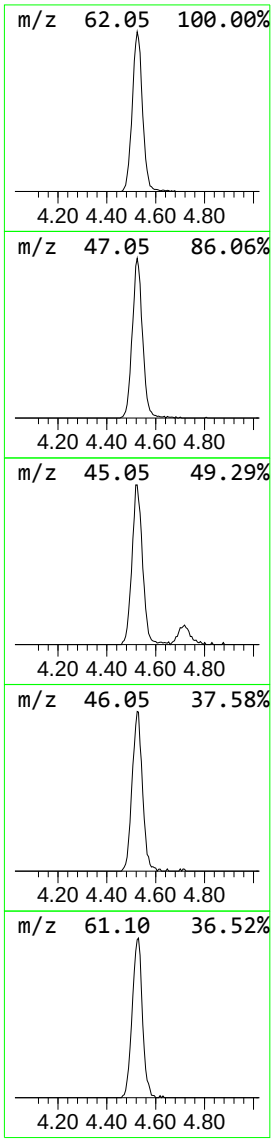
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Dimethyl sulfide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.524	31.30 ug/l	391867	Pentafluorobenzene	8.224

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl sulfide	62	C2H6S	000075-18-3	95
2	Borane-methyl sulfide complex	76	C2H9BS	013292-87-0	90
3	Ethanethiol	62	C2H6S	000075-08-1	86
4	Ethene, chloro-	62	C2H3Cl	000075-01-4	38
5	Phosphine, ethyl-	62	C2H7P	000593-68-0	5





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085920.D
Acq On : 10 Mar 2025 17:35
Operator : JC\MD
Sample : Q1514-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ENV-103-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Dimethyl sulfide	4.524	31.3	ug/l	391867	1	8.224	626072	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085934.D
Acq On : 11 Mar 2025 16:16
Operator : JC\MD
Sample : Q1514-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB03062025

Quant Time: Mar 12 01:23:43 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

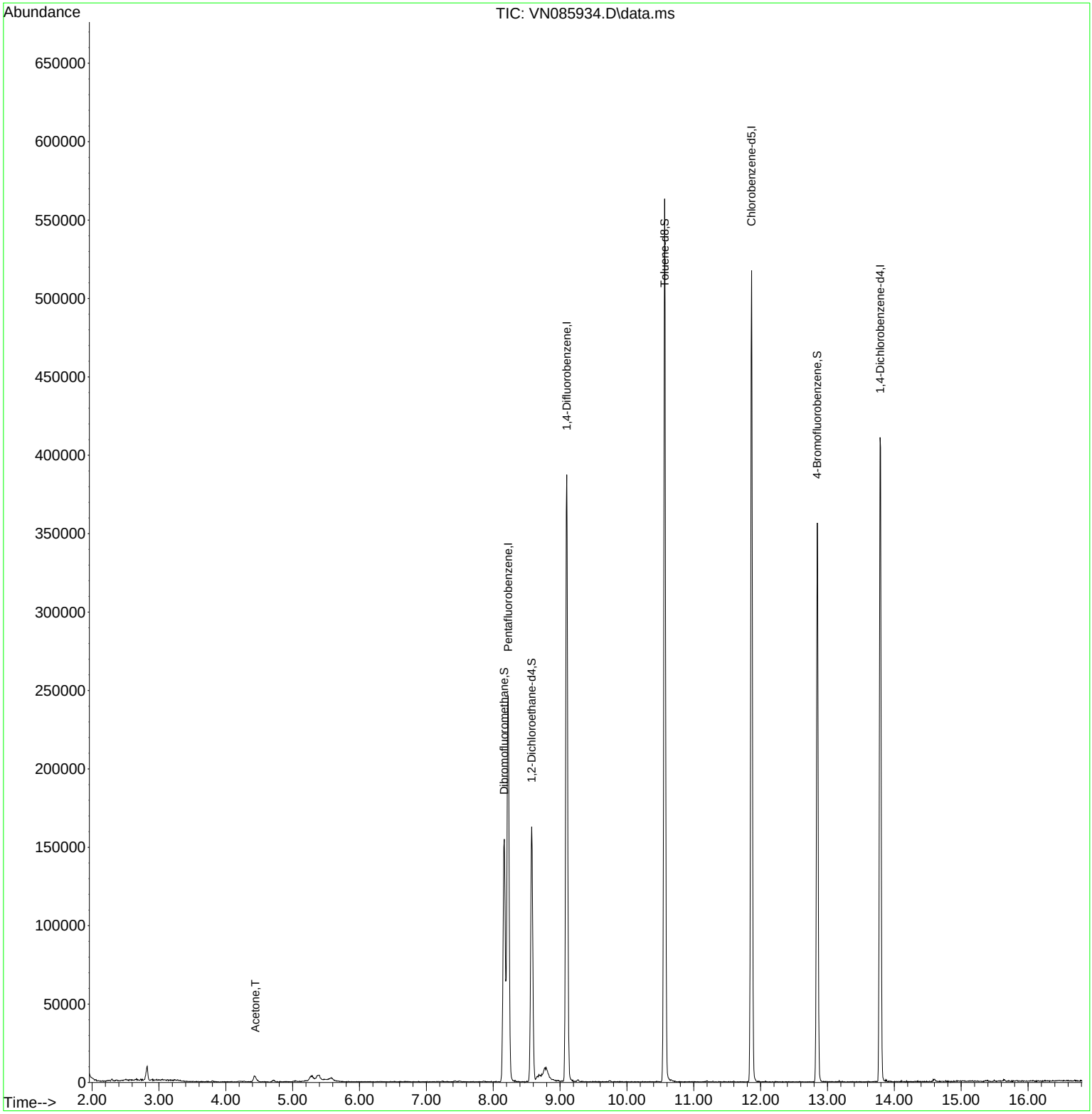
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	176702	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	336260	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	299219	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119405	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134504	58.713	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.420%			
35) Dibromofluoromethane	8.165	113	112664	51.203	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.400%			
50) Toluene-d8	10.565	98	387134	48.359	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.720%			
62) 4-Bromofluorobenzene	12.847	95	125306	47.507	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.020%			
Target Compounds						Qvalue
16) Acetone	4.442	43	7216	9.955	ug/l	95

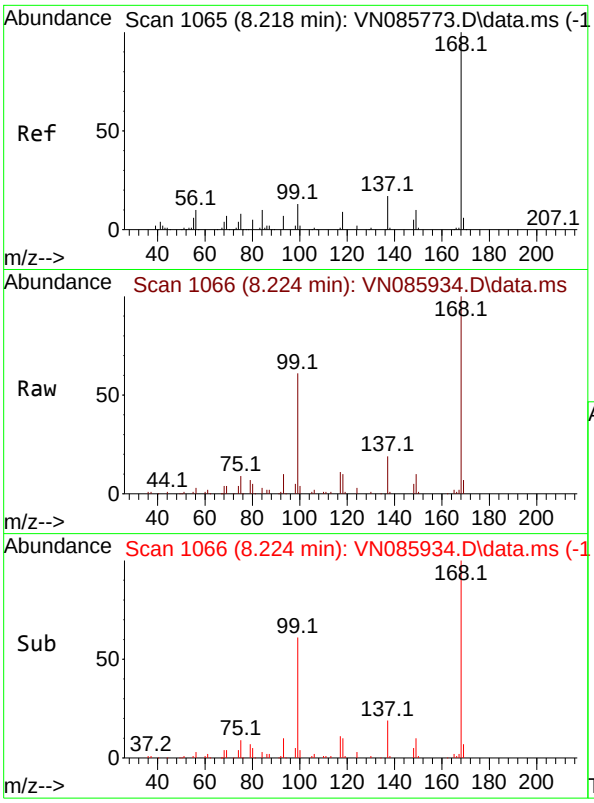
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085934.D
Acq On : 11 Mar 2025 16:16
Operator : JC\MD
Sample : Q1514-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB03062025

Quant Time: Mar 12 01:23:43 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



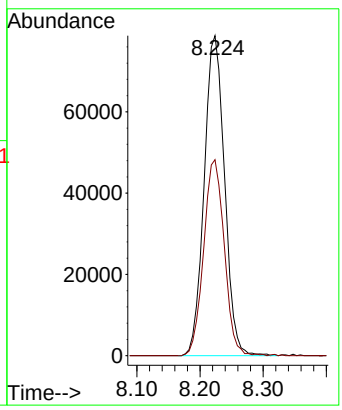


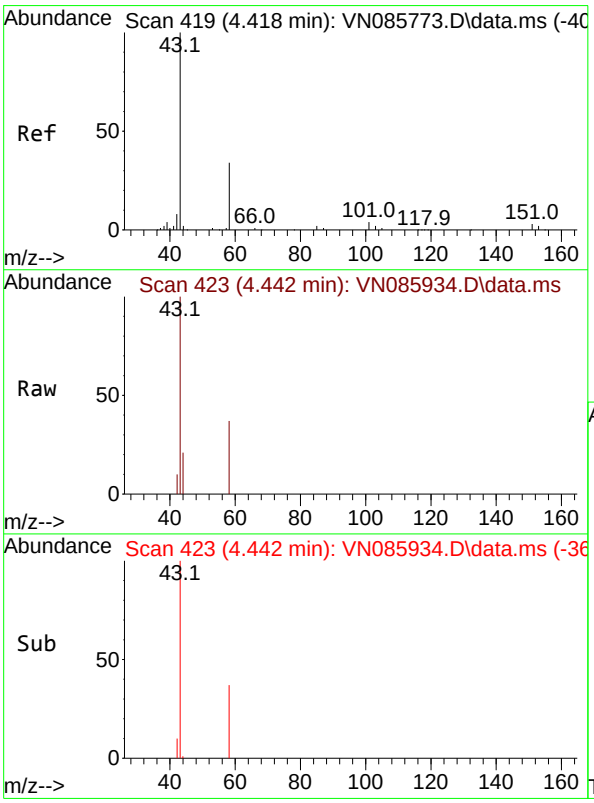
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085934.D
Acq: 11 Mar 2025 16:16

Instrument :
MSVOA_N
ClientSampleId :
FB03062025

Tgt Ion:168 Resp: 176702

Ion	Ratio	Lower	Upper
168	100		
99	61.2	47.9	71.9

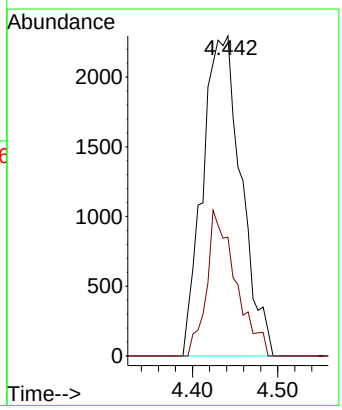


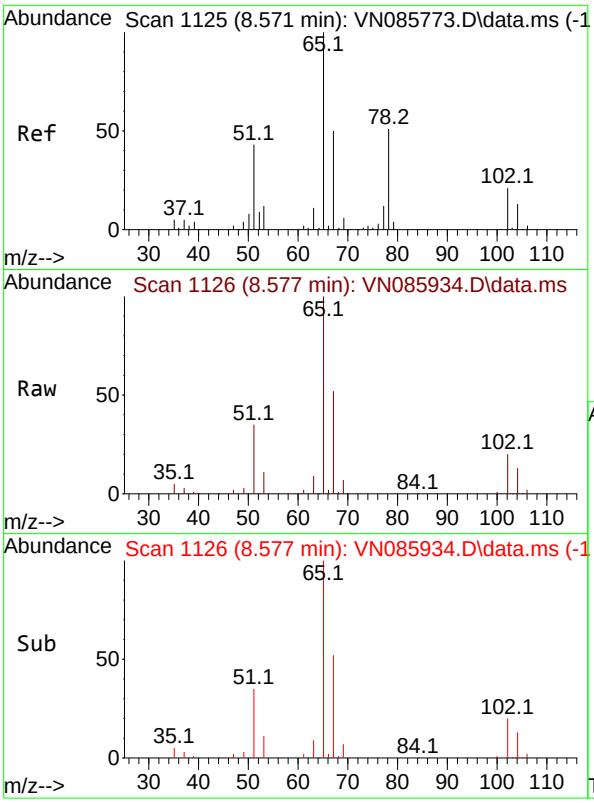


#16
Acetone
Concen: 9.955 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.024 min
Lab File: VN085934.D
Acq: 11 Mar 2025 16:16

Tgt Ion: 43 Resp: 7216

Ion	Ratio	Lower	Upper
43	100		
58	37.1	27.5	41.3



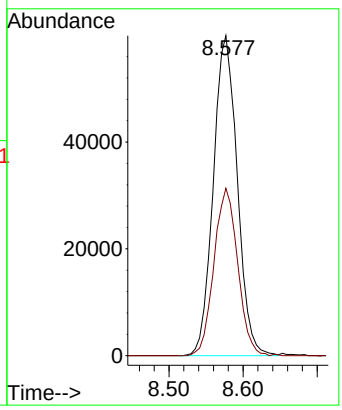


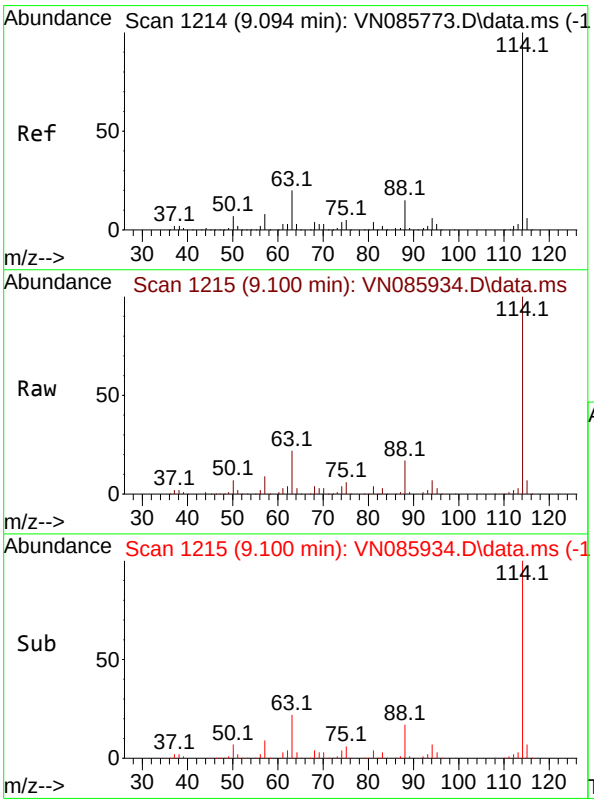
#33
1,2-Dichloroethane-d4
Concen: 58.713 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085934.D
Acq: 11 Mar 2025 16:16

Instrument :
MSVOA_N
ClientSampleId :
FB03062025

Tgt Ion: 65 Resp: 134504

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	106.2

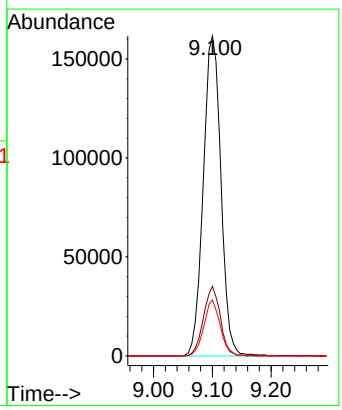


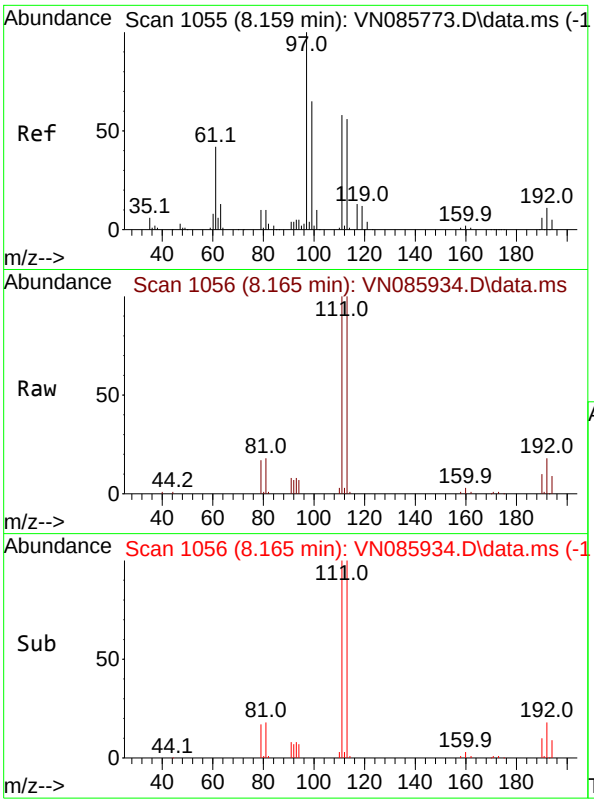


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085934.D
Acq: 11 Mar 2025 16:16

Tgt Ion:114 Resp: 336260

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	39.2
88	17.5	0.0	30.0



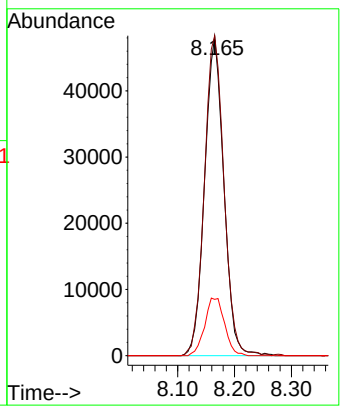


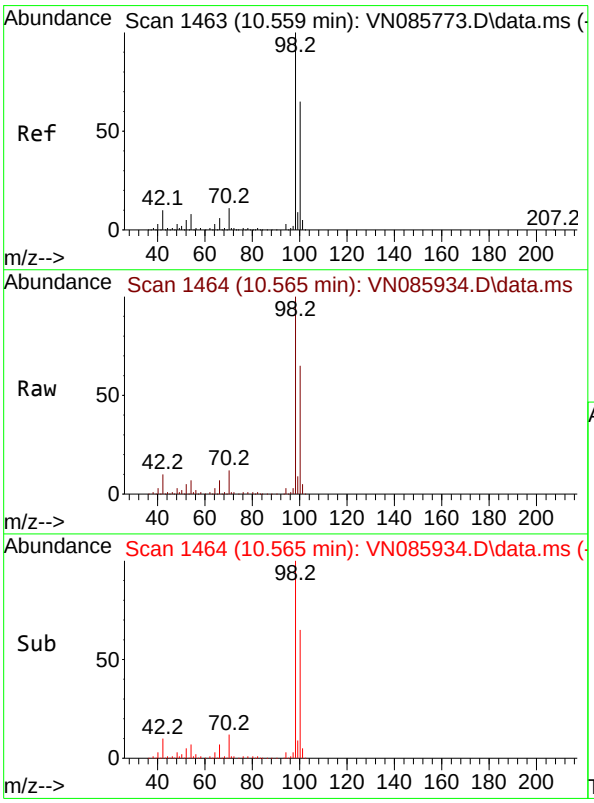
#35
Dibromofluoromethane
Concen: 51.203 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085934.D
Acq: 11 Mar 2025 16:16

Instrument :
MSVOA_N
ClientSampleId :
FB03062025

Tgt Ion:113 Resp: 112664

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.2	123.4
192	18.7	14.7	22.1

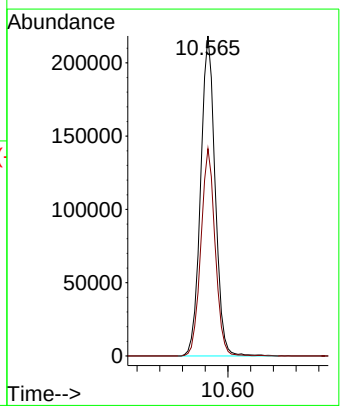


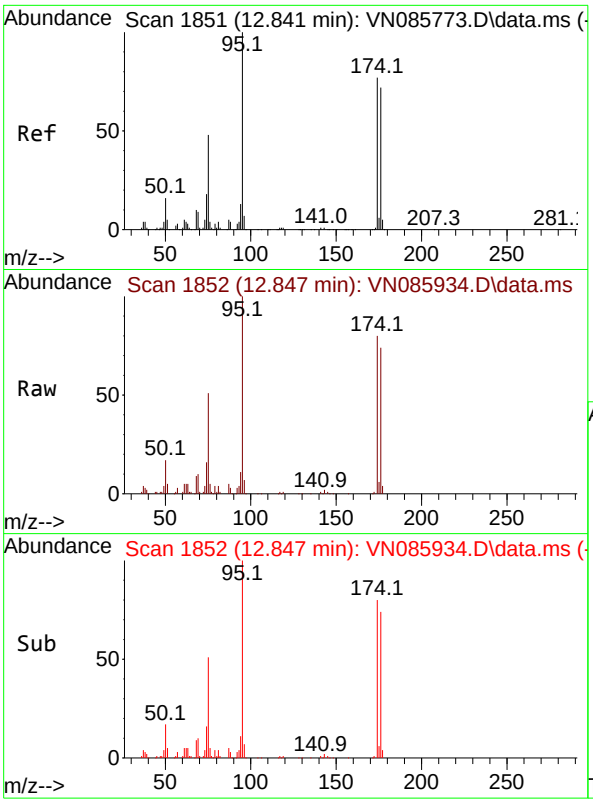


#50
Toluene-d8
Concen: 48.359 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085934.D
Acq: 11 Mar 2025 16:16

Tgt Ion: 98 Resp: 387134

Ion	Ratio	Lower	Upper
98	100		
100	63.6	52.1	78.1



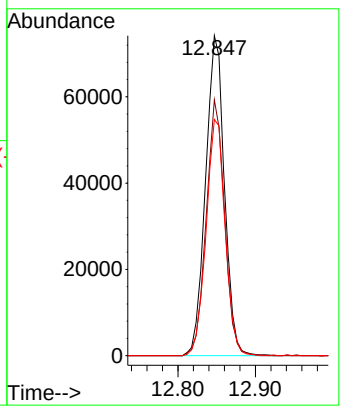


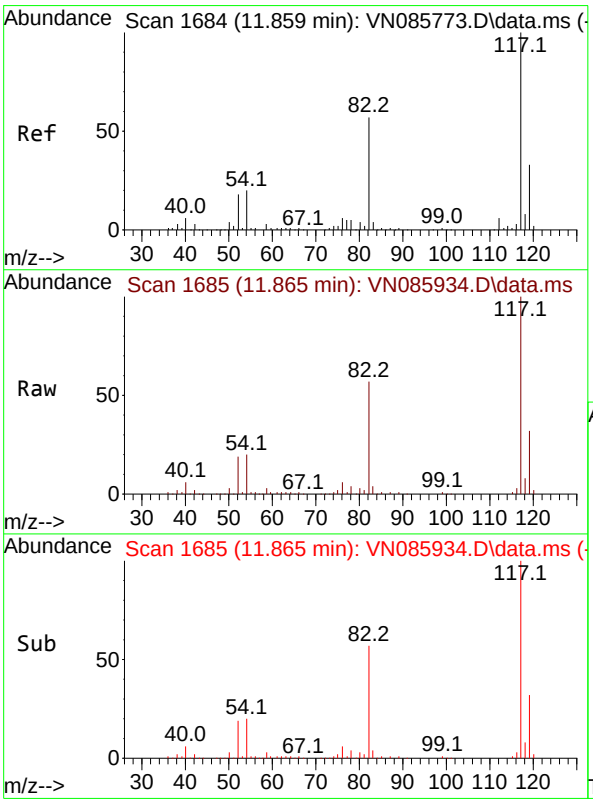
#62
4-Bromofluorobenzene
Concen: 47.507 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085934.D
Acq: 11 Mar 2025 16:16

Instrument :
MSVOA_N
ClientSampleId :
FB03062025

Tgt Ion: 95 Resp: 125306

Ion	Ratio	Lower	Upper
95	100		
174	78.1	0.0	152.4
176	74.5	0.0	146.6

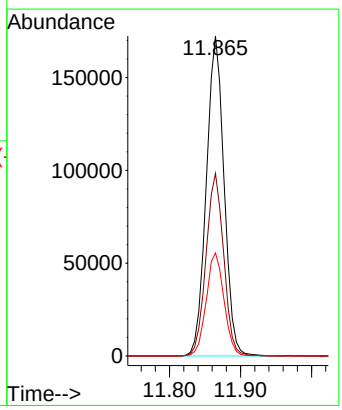


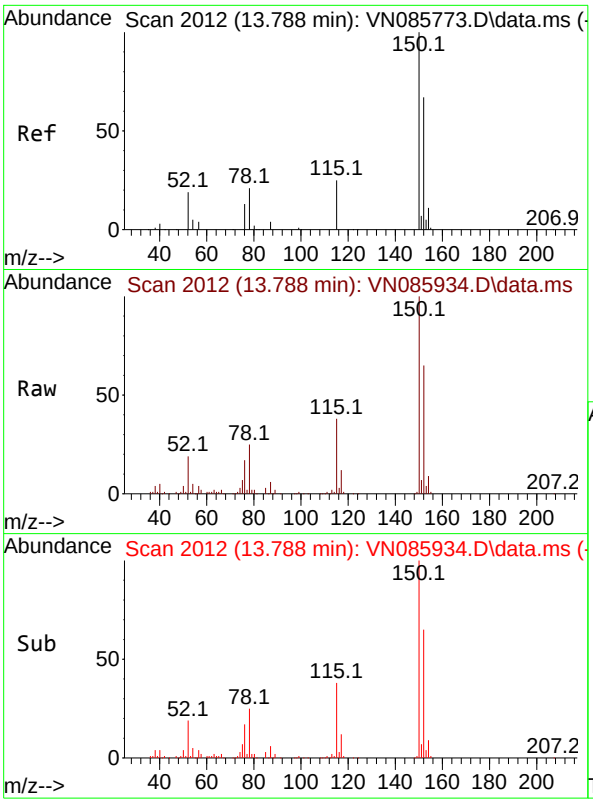


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085934.D
Acq: 11 Mar 2025 16:16

Tgt Ion:117 Resp: 299219

Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.7	68.5
119	32.2	26.2	39.2



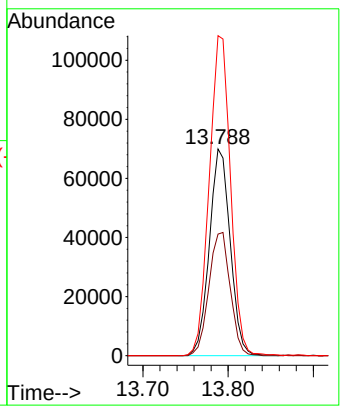


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085934.D
Acq: 11 Mar 2025 16:16

Instrument :
MSVOA_N
ClientSampleId :
FB03062025

Tgt Ion:152 Resp: 119405

Ion	Ratio	Lower	Upper
152	100		
115	60.8	30.4	91.3
150	157.6	0.0	345.4



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085934.D
Acq On : 11 Mar 2025 16:16
Operator : JC\MD
Sample : Q1514-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB03062025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085934.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.824	137	148	155	rBV3	8938	17403	1.74%	0.328%
2	4.424	414	420	429	rBV2	3828	11267	1.13%	0.212%
3	8.165	1045	1056	1060	rBV	154974	357588	35.80%	6.730%
4	8.224	1060	1066	1081	rVB	246092	563563	56.42%	10.606%
5	8.577	1116	1126	1135	rBV	162596	363170	36.36%	6.835%
6	9.100	1206	1215	1229	rBV	386816	787135	78.80%	14.813%
7	10.565	1455	1464	1478	rBV	563296	998930	100.00%	18.799%
8	11.865	1677	1685	1698	rBV	517538	902103	90.31%	16.977%
9	12.847	1845	1852	1866	rVB	356545	598425	59.91%	11.262%
10	13.788	2005	2012	2022	rBV	410861	714088	71.49%	13.439%

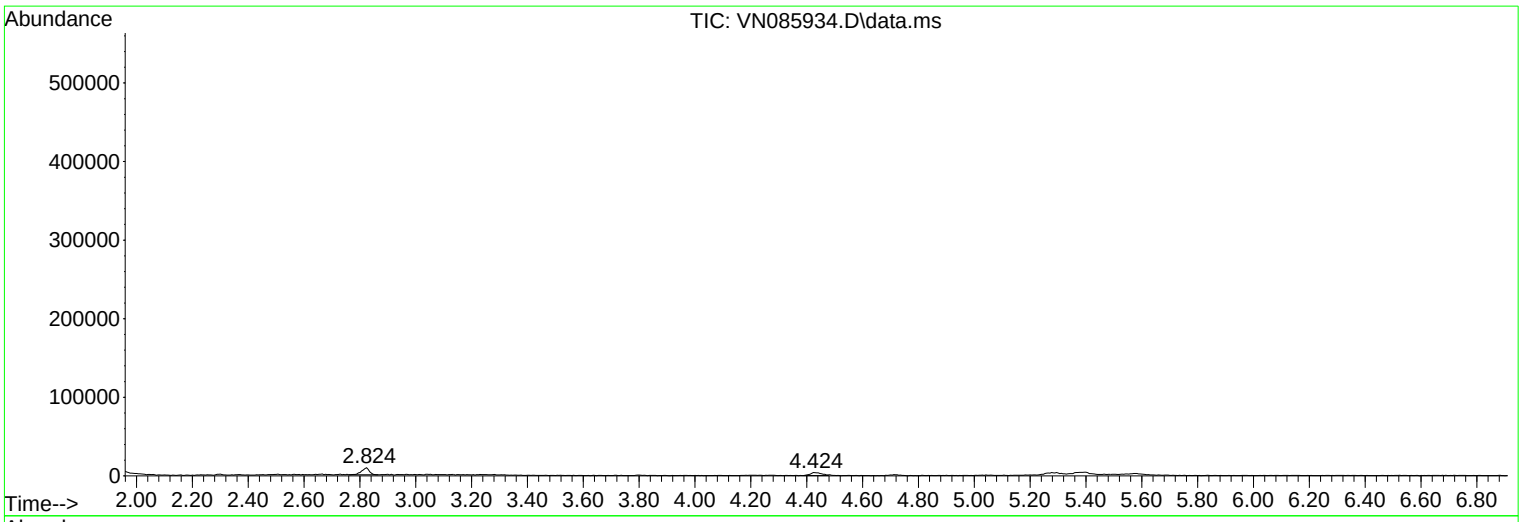
Sum of corrected areas: 5313672

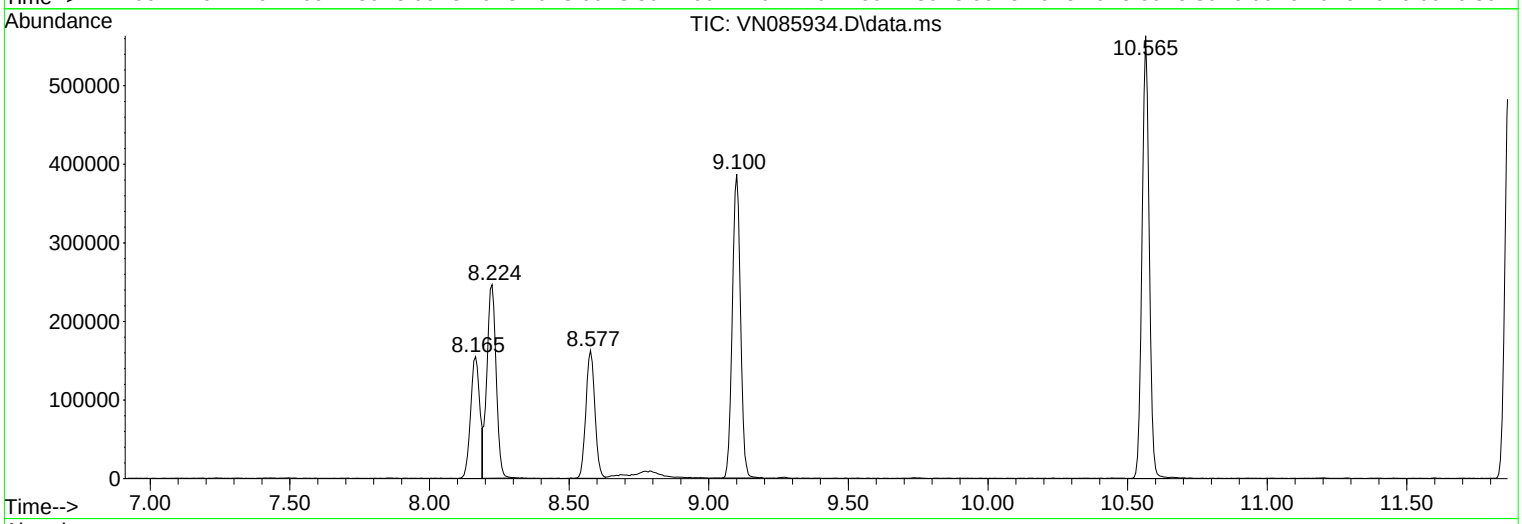
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085934.D
Acq On : 11 Mar 2025 16:16
Operator : JC\MD
Sample : Q1514-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

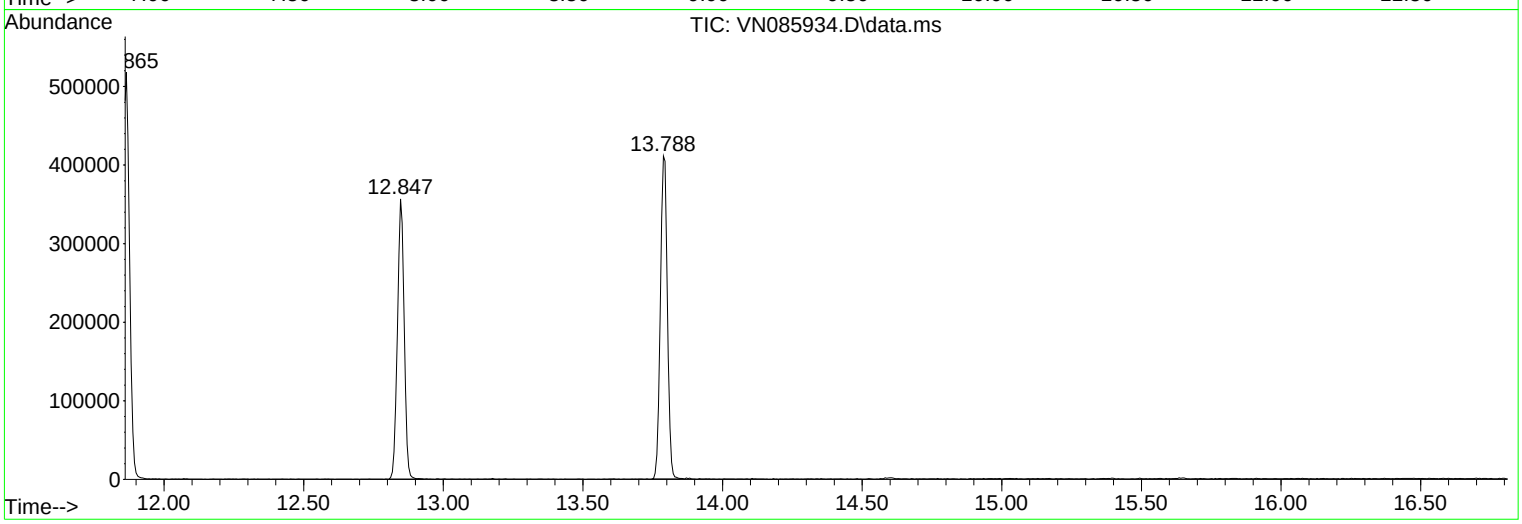
Instrument :
MSVOA_N
ClientSampleId :
FB03062025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085934.D
Acq On : 11 Mar 2025 16:16
Operator : JC\MD
Sample : Q1514-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB03062025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085934.D
Acq On : 11 Mar 2025 16:16
Operator : JC\MD
Sample : Q1514-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB03062025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085922.D
Acq On : 10 Mar 2025 18:23
Operator : JC\MD
Sample : Q1514-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB03062025

Quant Time: Mar 11 01:41:16 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	185446	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	343862	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	305300	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	121043	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134170	55.806	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.620%			
35) Dibromofluoromethane	8.165	113	111966	49.761	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.520%			
50) Toluene-d8	10.565	98	392872	47.991	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.980%			
62) 4-Bromofluorobenzene	12.847	95	128707	47.718	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.440%			

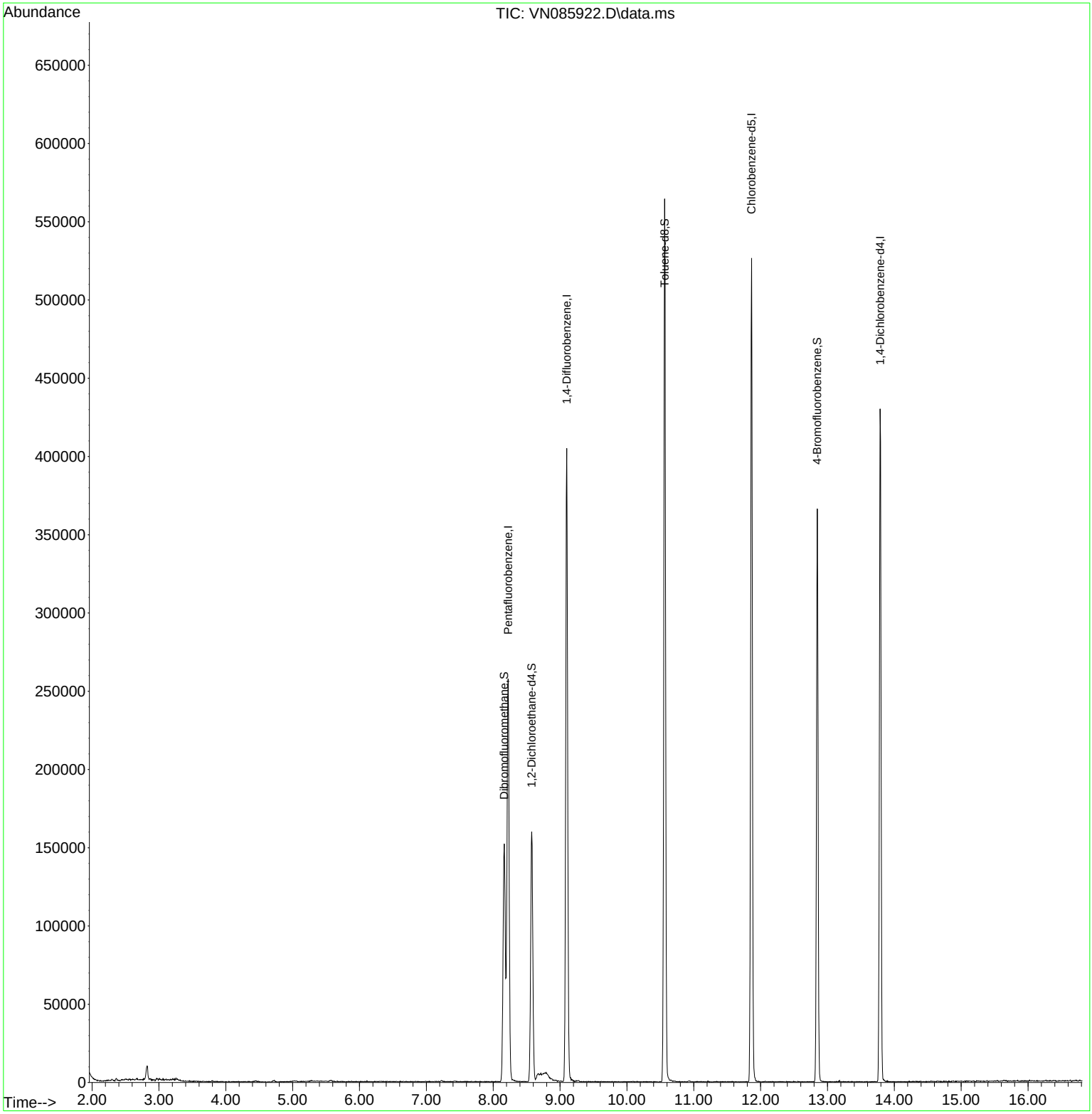
Target Compounds Qvalue

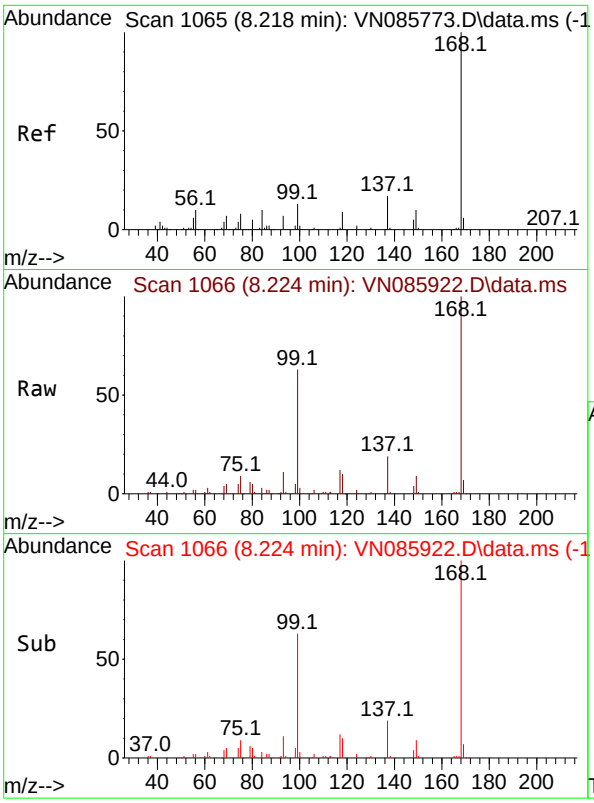
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085922.D
Acq On : 10 Mar 2025 18:23
Operator : JC\MD
Sample : Q1514-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB03062025

Quant Time: Mar 11 01:41:16 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



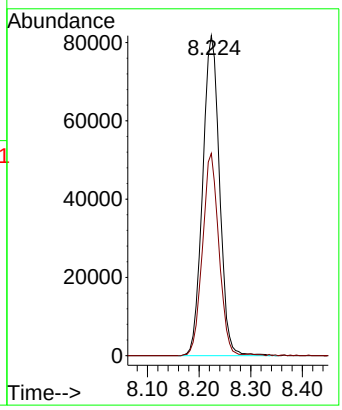


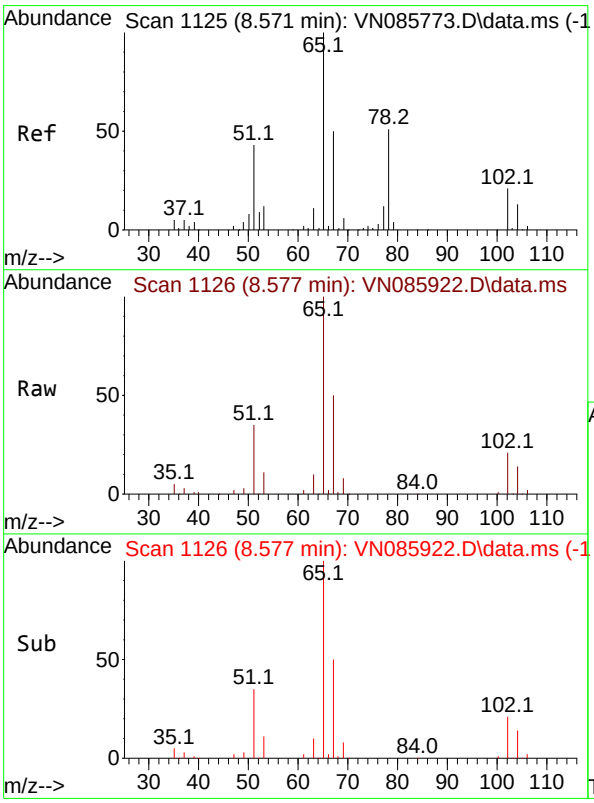
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085922.D
Acq: 10 Mar 2025 18:23

Instrument :
MSVOA_N
ClientSampleId :
TB03062025

Tgt Ion:168 Resp: 185446

Ion	Ratio	Lower	Upper
168	100		
99	63.2	47.9	71.9

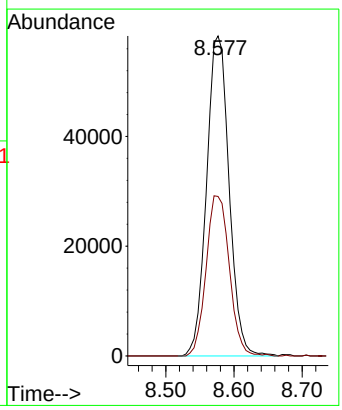


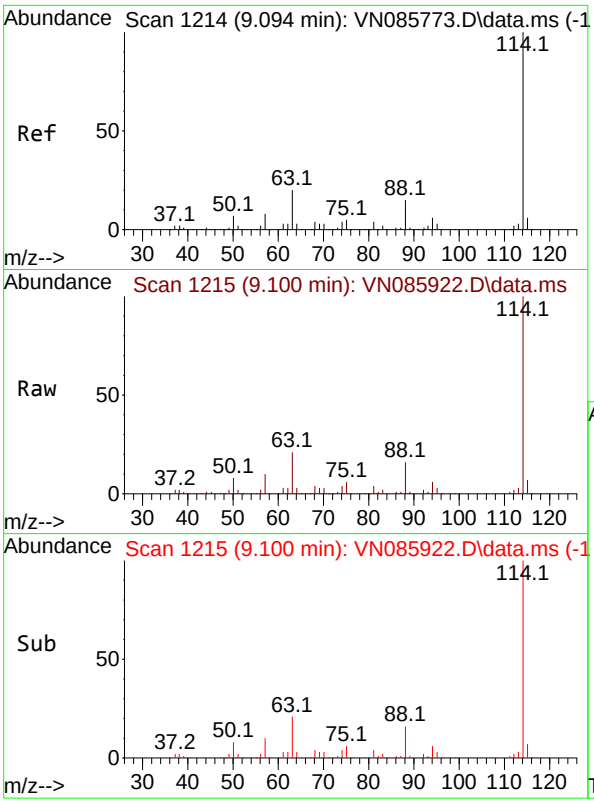


#33
1,2-Dichloroethane-d4
Concen: 55.806 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085922.D
Acq: 10 Mar 2025 18:23

Tgt Ion: 65 Resp: 134170

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	106.2



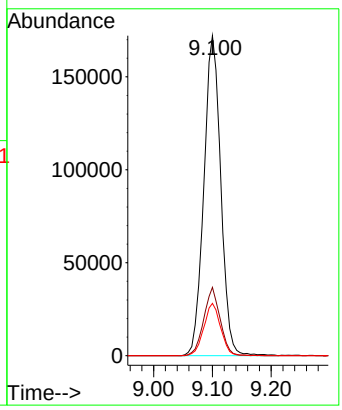


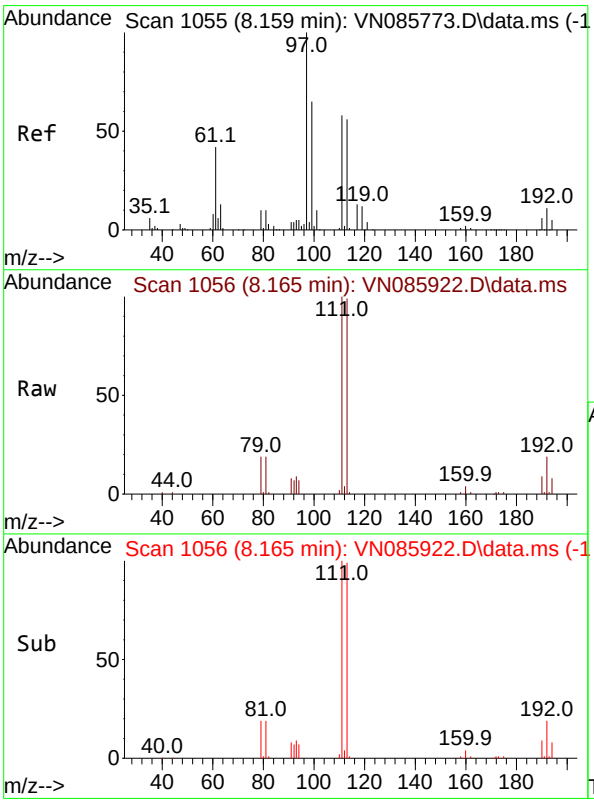
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085922.D
Acq: 10 Mar 2025 18:23

Instrument :
MSVOA_N
ClientSampleId :
TB03062025

Tgt Ion:114 Resp: 343862

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	39.2
88	16.4	0.0	30.0

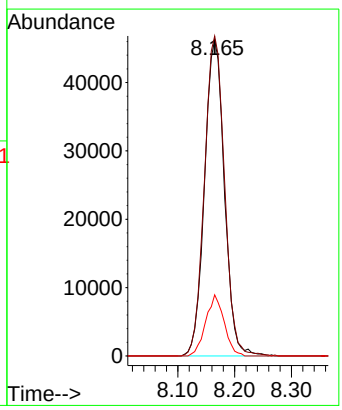


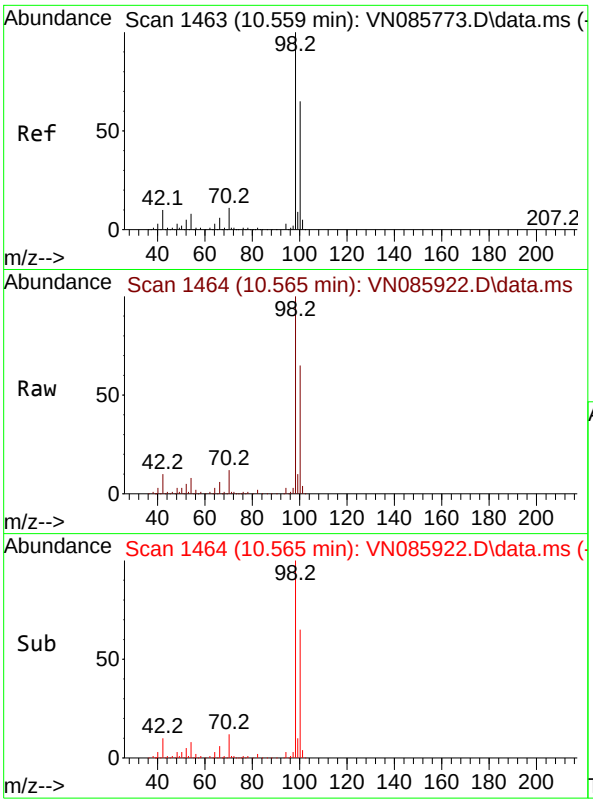


#35
Dibromofluoromethane
Concen: 49.761 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085922.D
Acq: 10 Mar 2025 18:23

Tgt Ion:113 Resp: 111966

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.2	123.4
192	18.0	14.7	22.1



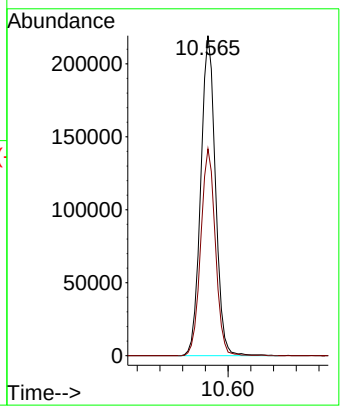


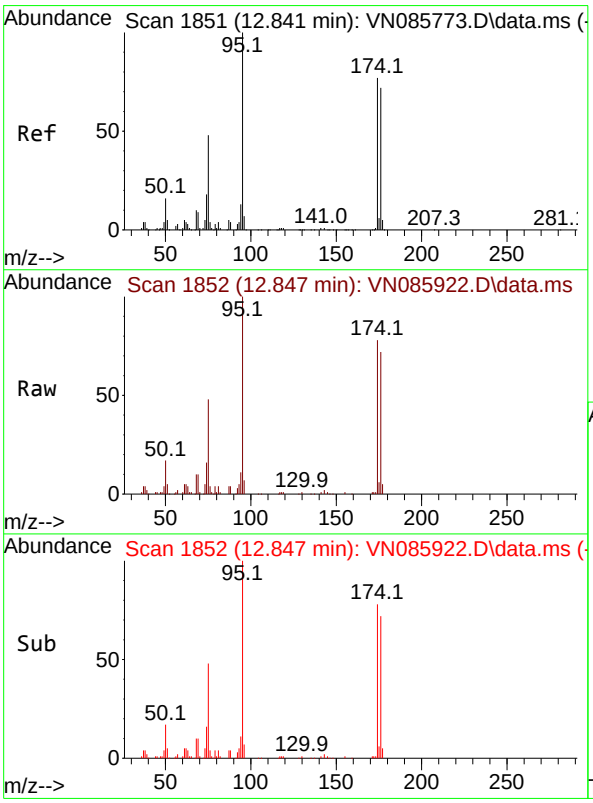
#50
Toluene-d8
Concen: 47.991 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085922.D
Acq: 10 Mar 2025 18:23

Instrument :
MSVOA_N
ClientSampleId :
TB03062025

Tgt Ion: 98 Resp: 392872

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.1	78.1

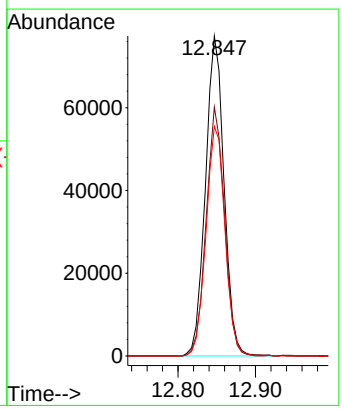


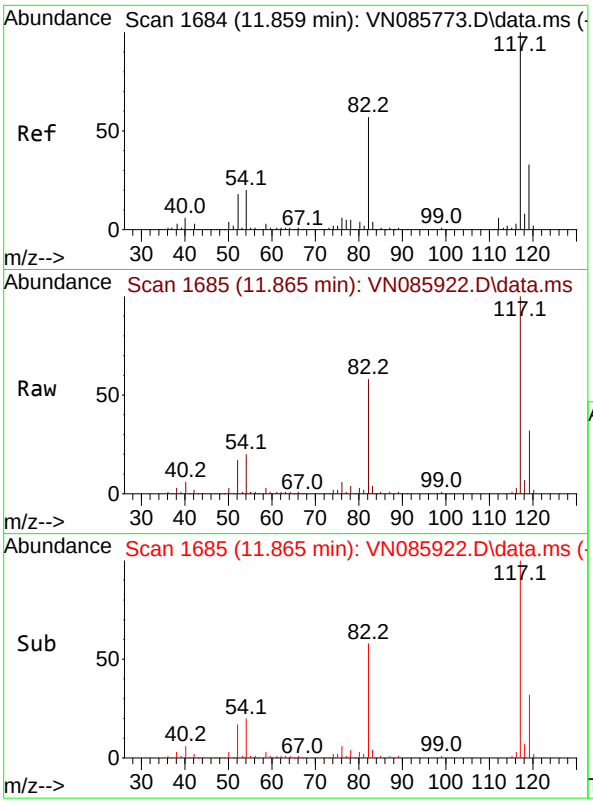


#62
4-Bromofluorobenzene
Concen: 47.718 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085922.D
Acq: 10 Mar 2025 18:23

Tgt Ion: 95 Resp: 128707

Ion	Ratio	Lower	Upper
95	100		
174	77.1	0.0	152.4
176	73.0	0.0	146.6



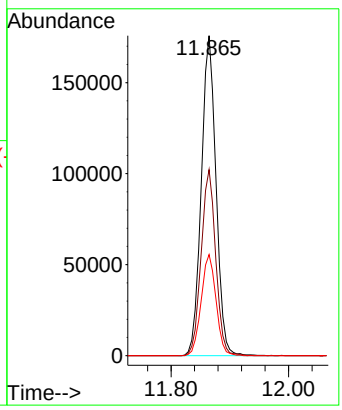


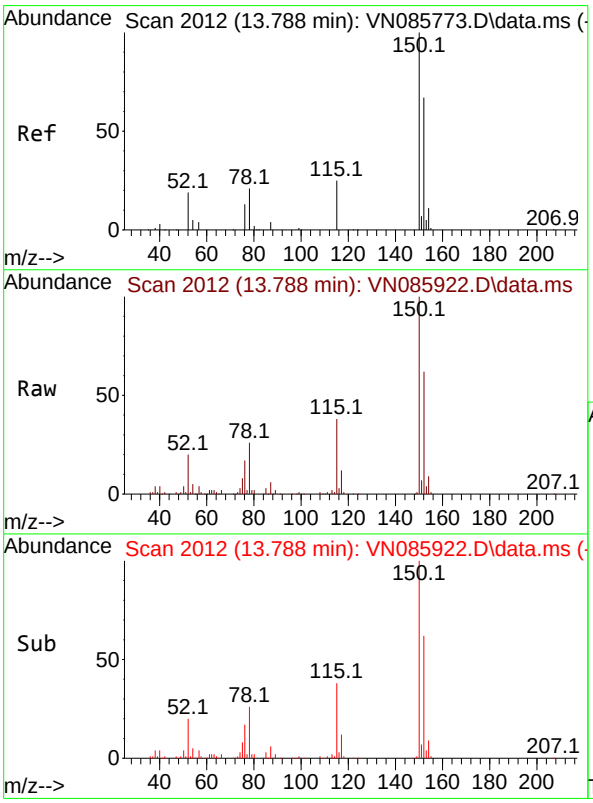
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085922.D
Acq: 10 Mar 2025 18:23

Instrument :
MSVOA_N
ClientSampleId :
TB03062025

Tgt Ion:117 Resp: 305300

Ion	Ratio	Lower	Upper
117	100		
82	58.2	45.7	68.5
119	31.6	26.2	39.2

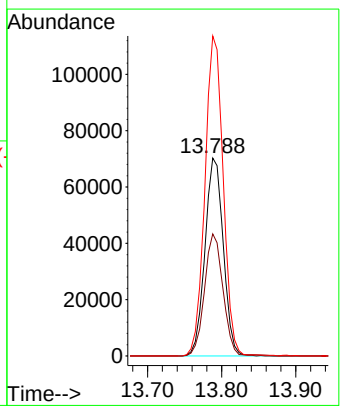




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085922.D
Acq: 10 Mar 2025 18:23

Tgt Ion:152 Resp: 121043

Ion	Ratio	Lower	Upper
152	100		
115	61.7	30.4	91.3
150	160.6	0.0	345.4



Sample Results: **VN085922.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085922.D
Acq On : 10 Mar 2025 18:23
Operator : JC\MD
Sample : Q1514-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB03062025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085922.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.824	141	148	153	rVB4	8553	15746	1.55%	0.292%
2	8.165	1046	1056	1060	rBV	152148	353103	34.82%	6.540%
3	8.224	1060	1066	1076	rVB2	256526	582261	57.41%	10.784%
4	8.577	1114	1126	1135	rBV	159821	362520	35.75%	6.714%
5	9.100	1205	1215	1226	rBV	404545	804215	79.30%	14.894%
6	10.565	1456	1464	1478	rBV	564256	1014161	100.00%	18.783%
7	11.865	1677	1685	1696	rBV	526317	922696	90.98%	17.089%
8	12.847	1845	1852	1866	rBV	366018	607957	59.95%	11.260%
9	13.788	2004	2012	2020	rBV	429958	736826	72.65%	13.646%

Sum of corrected areas: 5399485

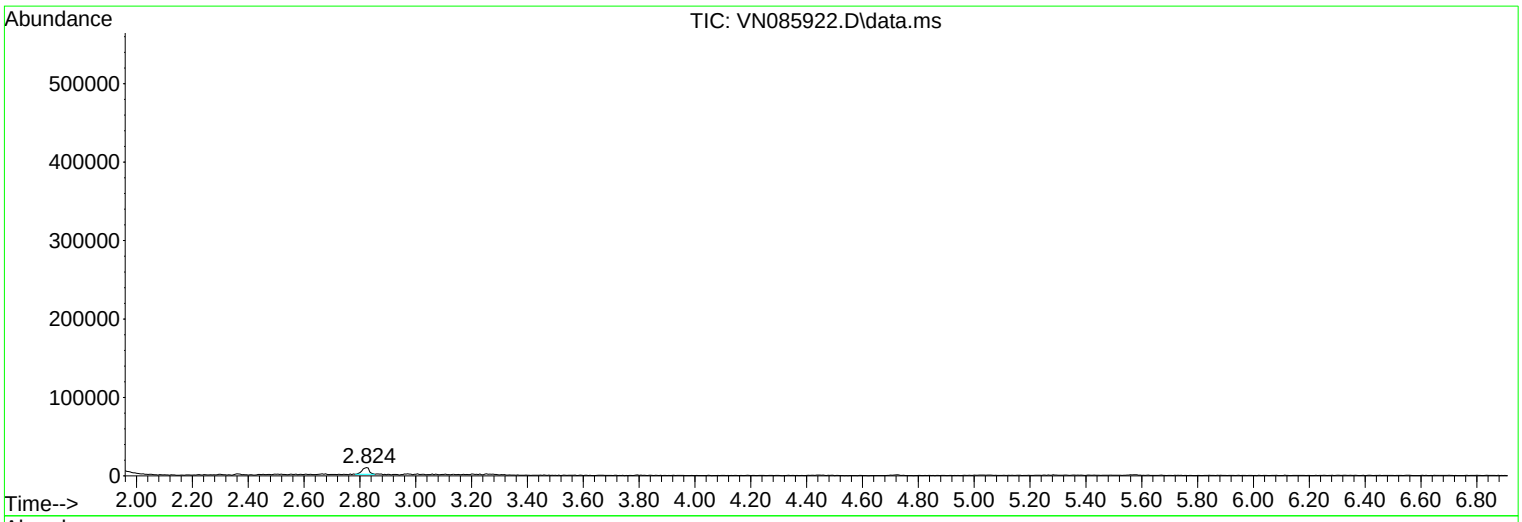
Sample Results: **VN085922.D**

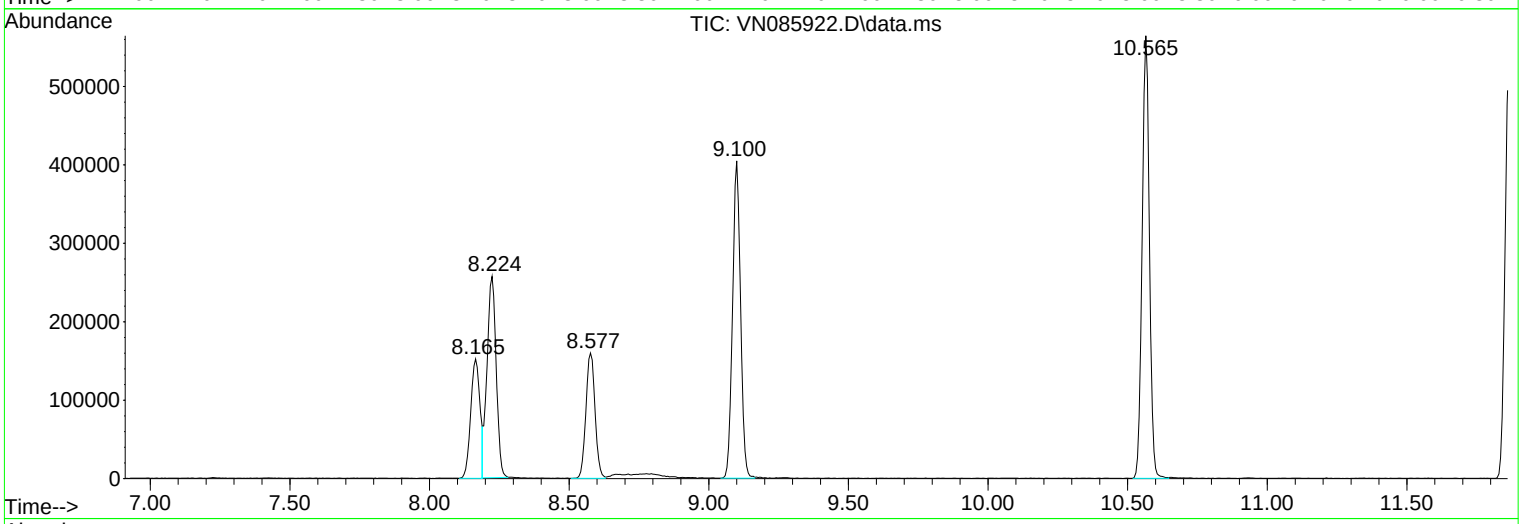
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085922.D
Acq On : 10 Mar 2025 18:23
Operator : JC\MD
Sample : Q1514-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

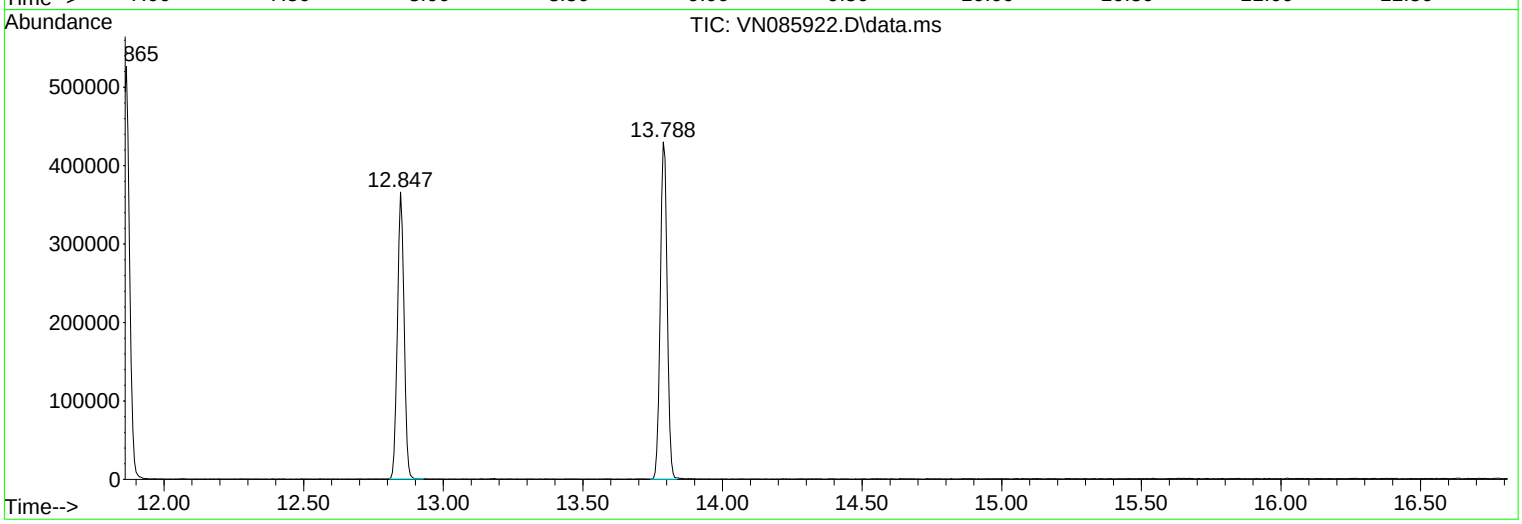
Instrument :
MSVOA_N
ClientSampleId :
TB03062025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VN085922.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085922.D
Acq On : 10 Mar 2025 18:23
Operator : JC\MD
Sample : Q1514-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB03062025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

A
B
C
D
E
F
G
H
I
J

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085922.D
Acq On : 10 Mar 2025 18:23
Operator : JC\MD
Sample : Q1514-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB03062025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085916.D
Acq On : 10 Mar 2025 13:22
Operator : JC\MD
Sample : VN0310WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0310WBL01

Quant Time: Mar 11 01:37:14 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

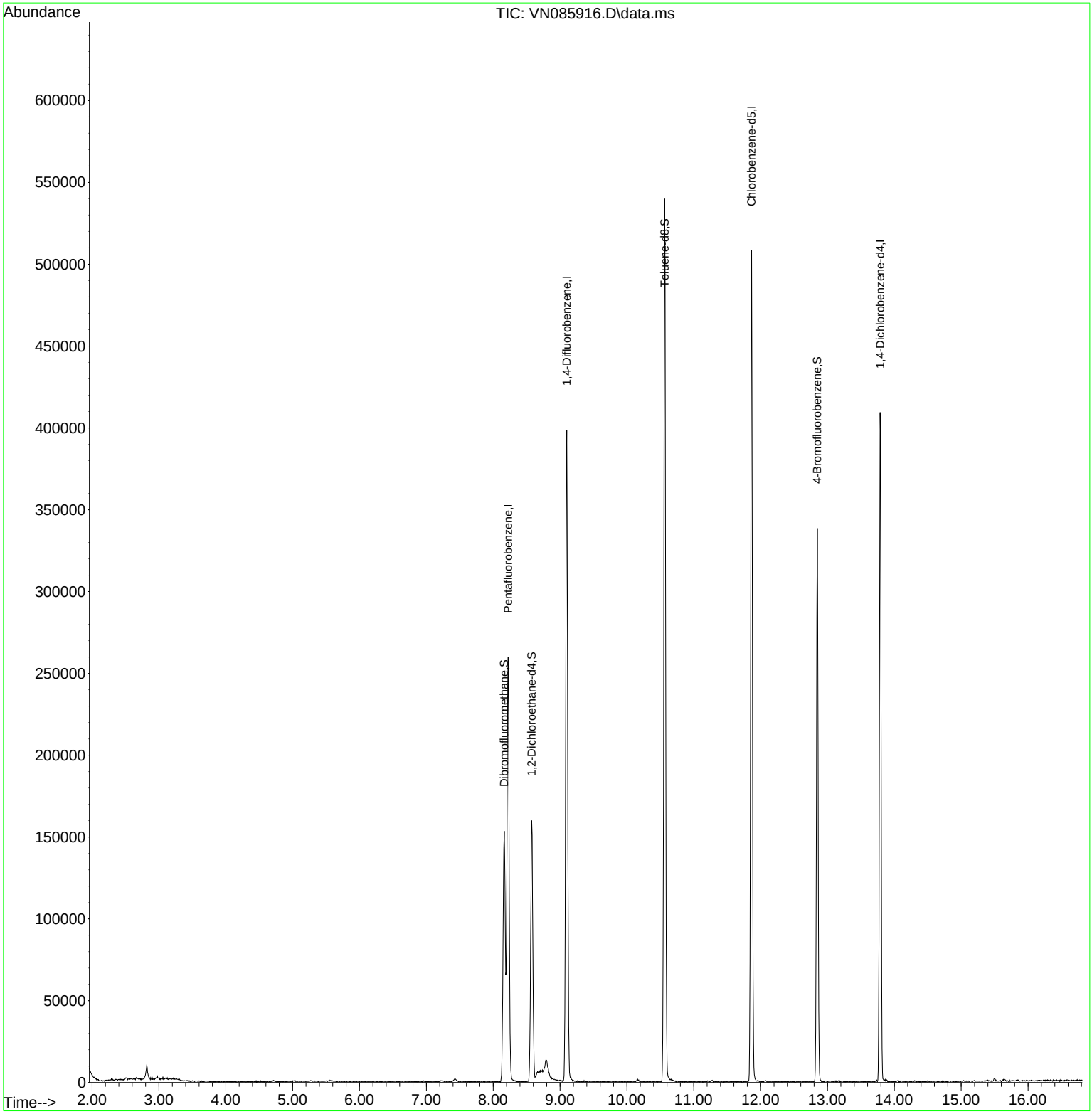
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	185188	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	337149	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	297684	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	112686	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	131135	54.619	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.240%			
35) Dibromofluoromethane	8.165	113	111691	50.627	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.260%			
50) Toluene-d8	10.565	98	376828	46.947	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.900%			
62) 4-Bromofluorobenzene	12.847	95	118920	44.967	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.940%			
Target Compounds						Qvalue

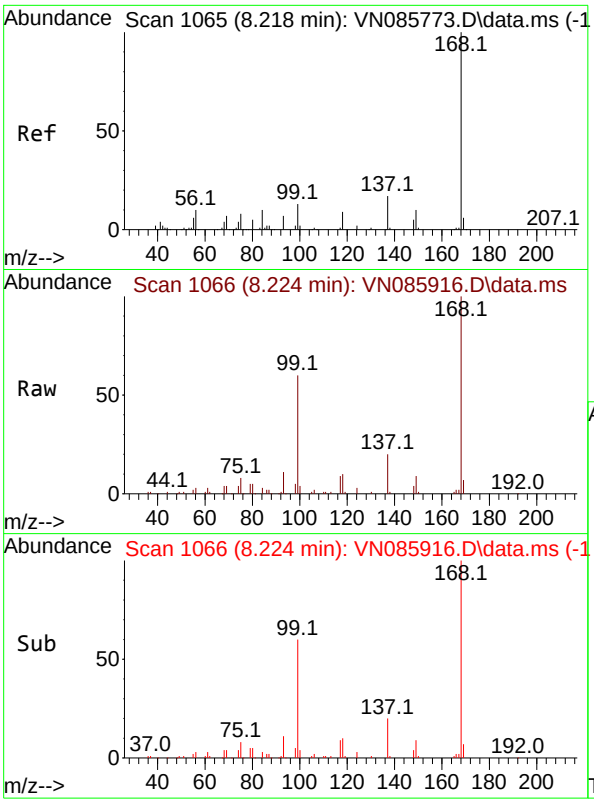
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085916.D
Acq On : 10 Mar 2025 13:22
Operator : JC\MD
Sample : VN0310WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0310WBL01

Quant Time: Mar 11 01:37:14 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



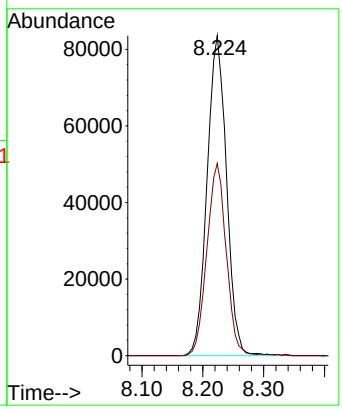


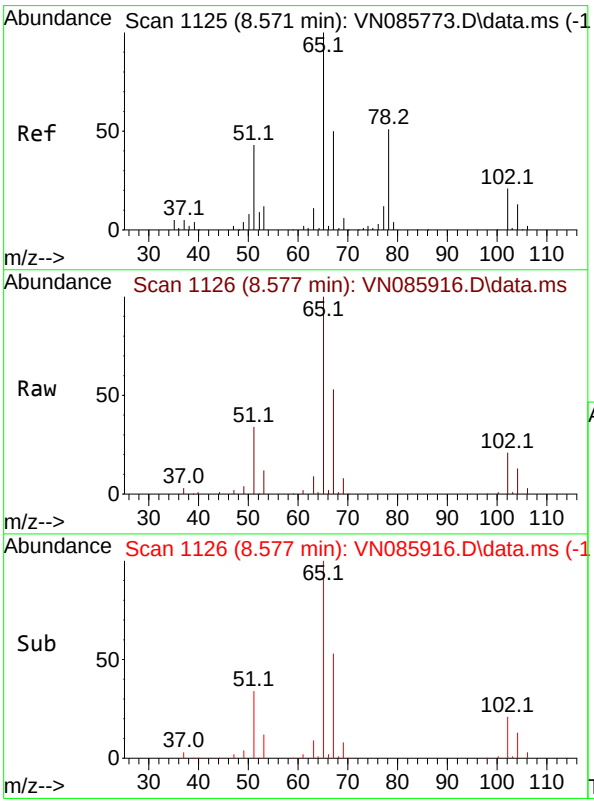
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085916.D
Acq: 10 Mar 2025 13:22

Instrument :
MSVOA_N
ClientSampleId :
VN0310WBL01

Tgt Ion:168 Resp: 185188

Ion	Ratio	Lower	Upper
168	100		
99	60.0	47.9	71.9

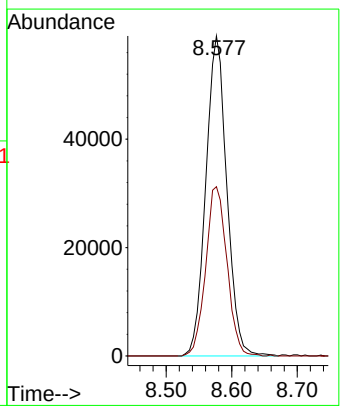


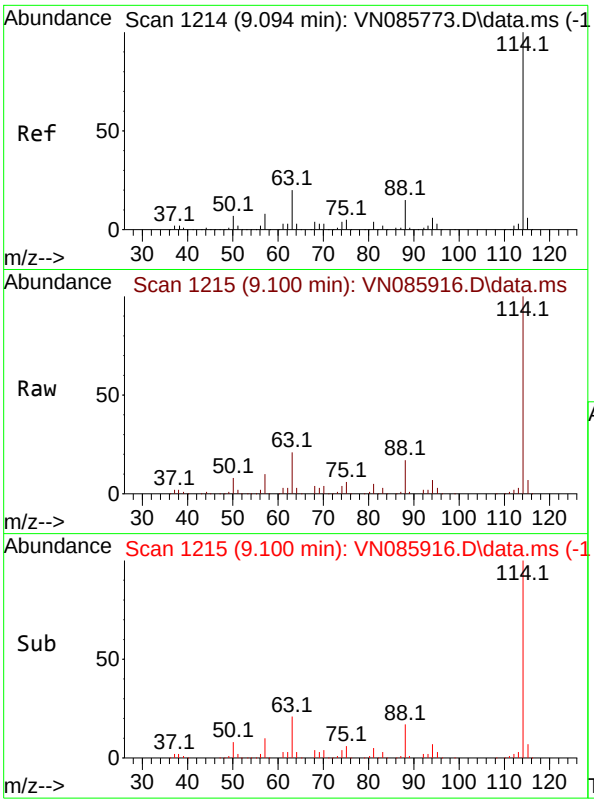


#33
1,2-Dichloroethane-d4
Concen: 54.619 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085916.D
Acq: 10 Mar 2025 13:22

Tgt Ion: 65 Resp: 131135

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	106.2



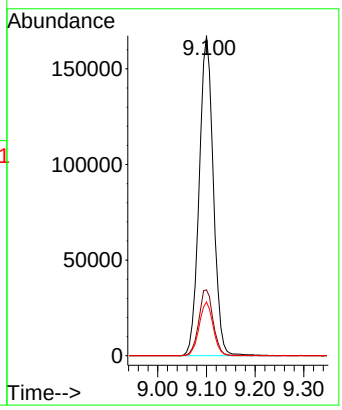


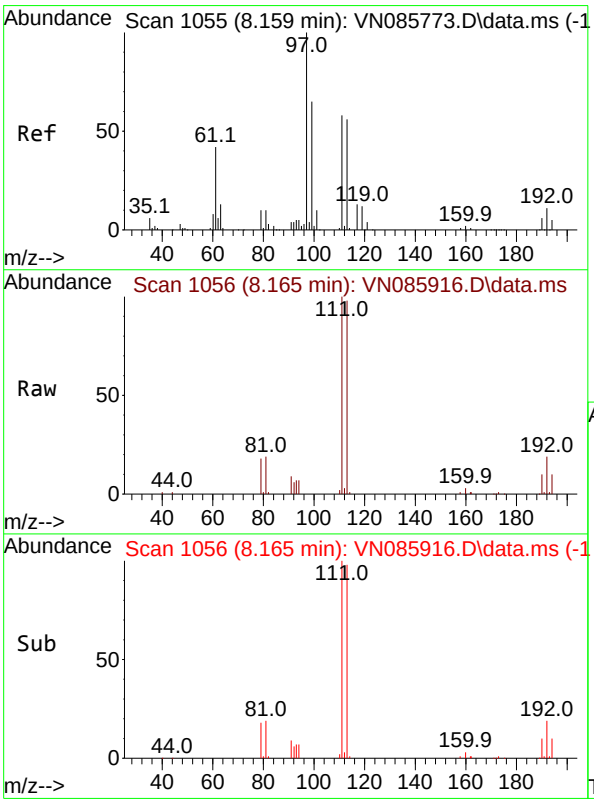
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085916.D
Acq: 10 Mar 2025 13:22

Instrument :
MSVOA_N
ClientSampleId :
VN0310WBL01

Tgt Ion:114 Resp: 337149

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	39.2
88	16.7	0.0	30.0

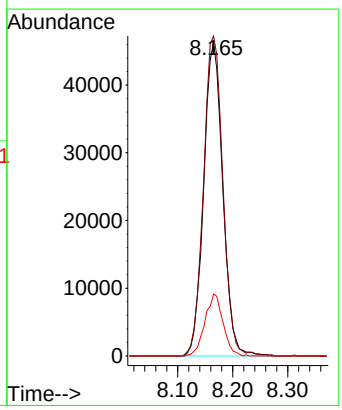


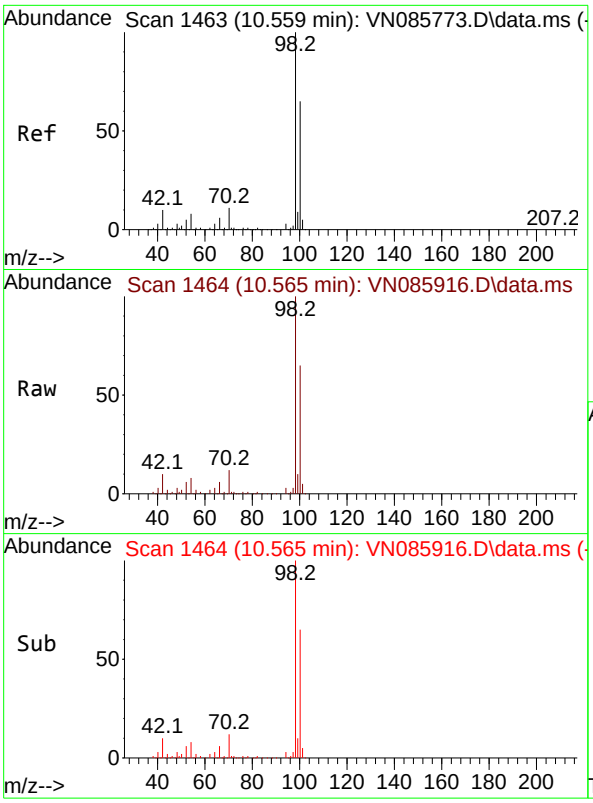


#35
Dibromofluoromethane
Concen: 50.627 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085916.D
Acq: 10 Mar 2025 13:22

Tgt Ion:113 Resp: 111691

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.2	123.4
192	18.7	14.7	22.1



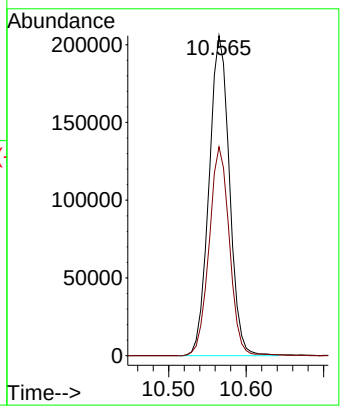


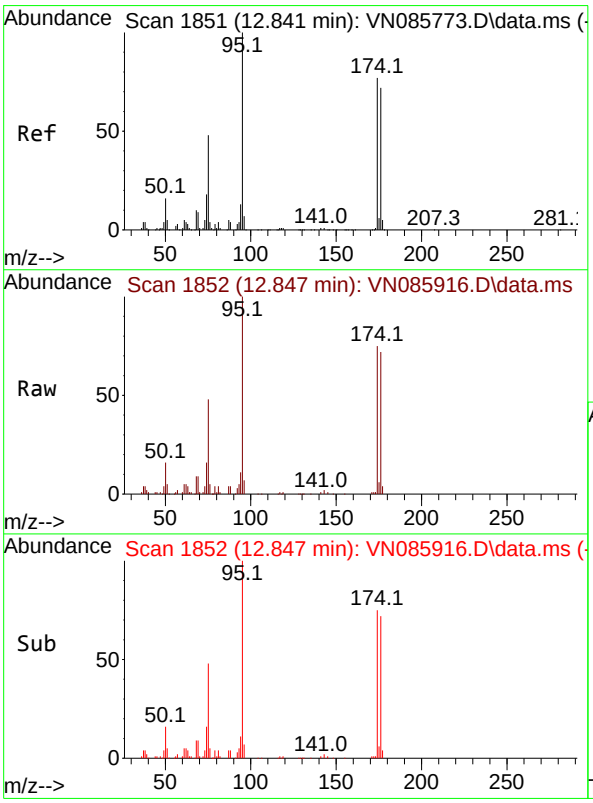
#50
Toluene-d8
Concen: 46.947 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085916.D
Acq: 10 Mar 2025 13:22

Instrument :
MSVOA_N
ClientSampleId :
VN0310WBL01

Tgt Ion: 98 Resp: 376828

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.1	78.1

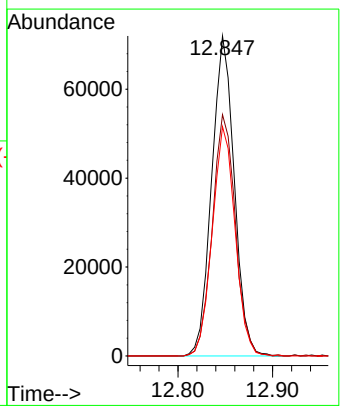


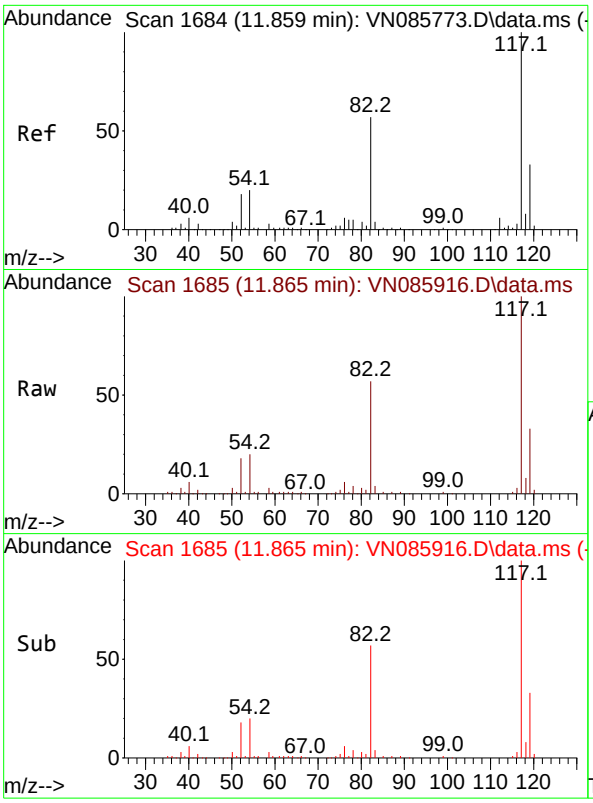


#62
4-Bromofluorobenzene
Concen: 44.967 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085916.D
Acq: 10 Mar 2025 13:22

Tgt Ion: 95 Resp: 118920

Ion	Ratio	Lower	Upper
95	100		
174	77.1	0.0	152.4
176	72.7	0.0	146.6



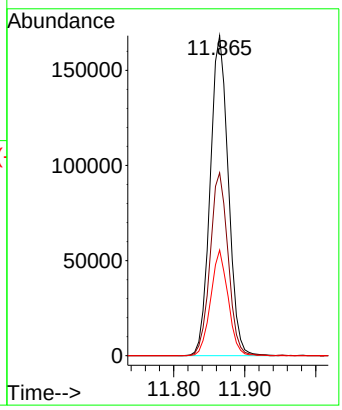


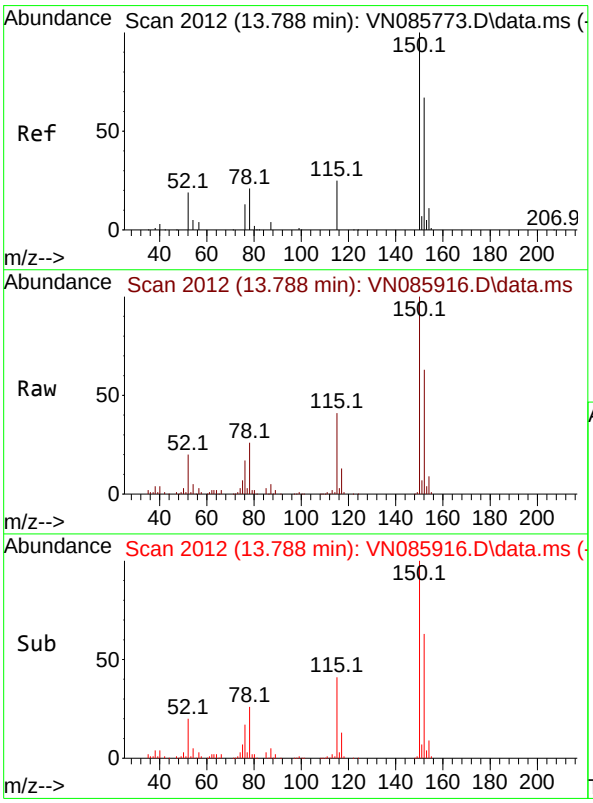
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085916.D
Acq: 10 Mar 2025 13:22

Instrument :
MSVOA_N
ClientSampleId :
VN0310WBL01

Tgt Ion:117 Resp: 297684

Ion	Ratio	Lower	Upper
117	100		
82	57.2	45.7	68.5
119	33.0	26.2	39.2

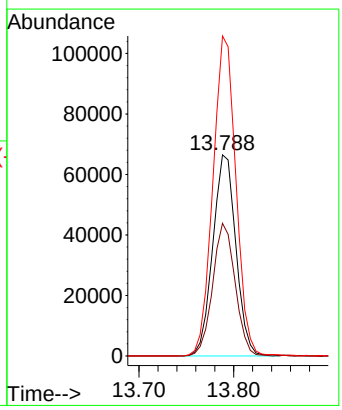




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085916.D
Acq: 10 Mar 2025 13:22

Tgt Ion:152 Resp: 112686

Ion	Ratio	Lower	Upper
152	100		
115	64.0	30.4	91.3
150	158.5	0.0	345.4



Sample Results: **VN085916.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085916.D
Acq On : 10 Mar 2025 13:22
Operator : JC\MD
Sample : VN0310WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0310WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085916.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.818	140	147	154	rBV5	8438	16723	1.70%	0.317%
2	8.165	1046	1056	1060	rBV	153437	355810	36.10%	6.746%
3	8.224	1060	1066	1079	rVB	258760	577181	58.55%	10.942%
4	8.577	1117	1126	1134	rBV	159381	358486	36.37%	6.796%
5	8.788	1156	1162	1174	rVB3	10705	36078	3.66%	0.684%
6	9.100	1206	1215	1225	rBV	397799	794988	80.65%	15.072%
7	10.565	1455	1464	1479	rBV	539489	985741	100.00%	18.688%
8	11.865	1675	1685	1699	rBV	507861	894725	90.77%	16.963%
9	12.847	1845	1852	1863	rVB	338224	567022	57.52%	10.750%
10	13.788	2005	2012	2022	rBV	408917	687945	69.79%	13.042%

Sum of corrected areas: 5274699

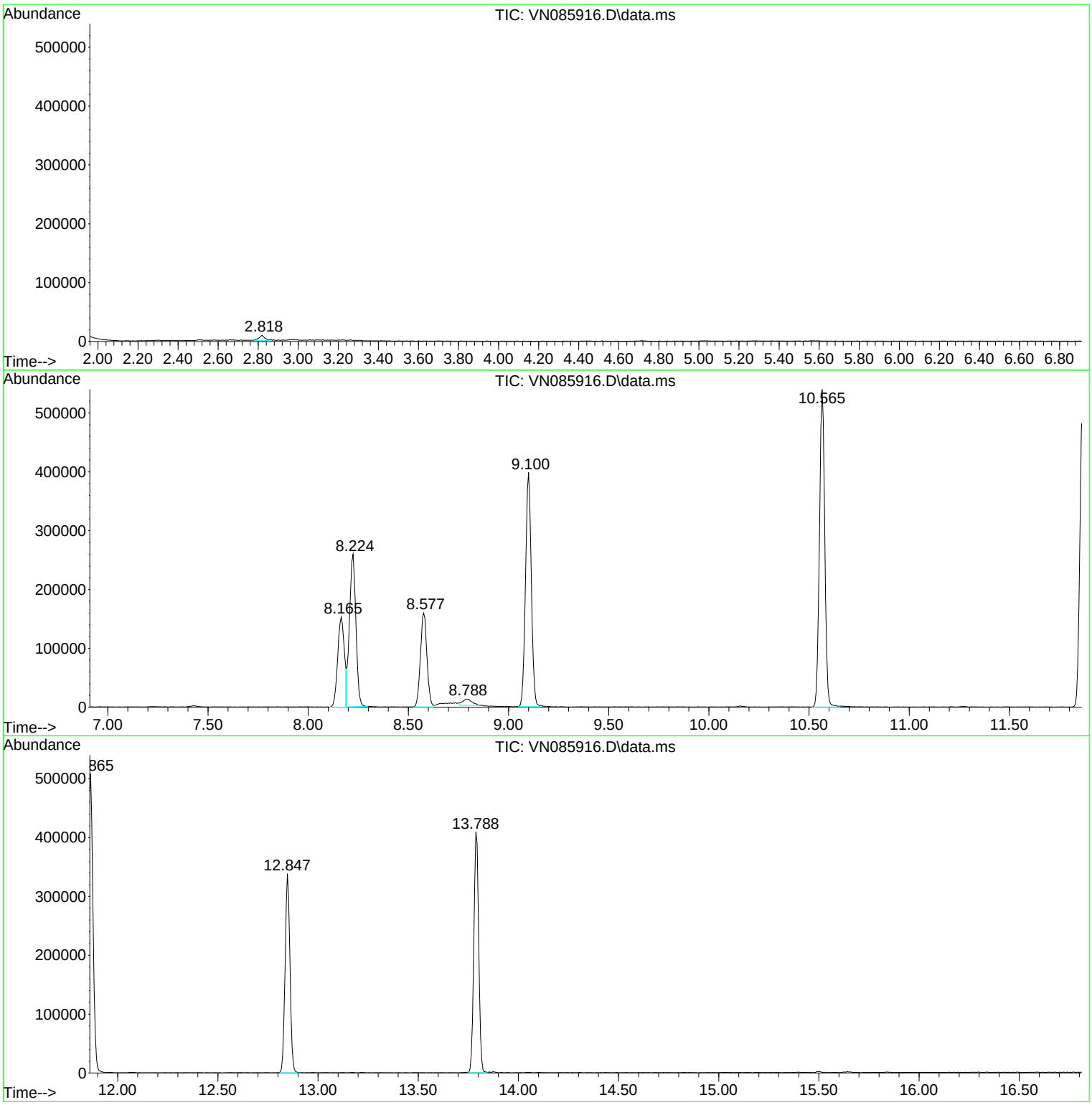
Sample Results: **VN085916.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085916.D
Acq On : 10 Mar 2025 13:22
Operator : JC\MD
Sample : VN0310WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0310WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085916.D
Acq On : 10 Mar 2025 13:22
Operator : JC\MD
Sample : VN0310WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0310WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085916.D
Acq On : 10 Mar 2025 13:22
Operator : JC\MD
Sample : VN0310WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0310WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

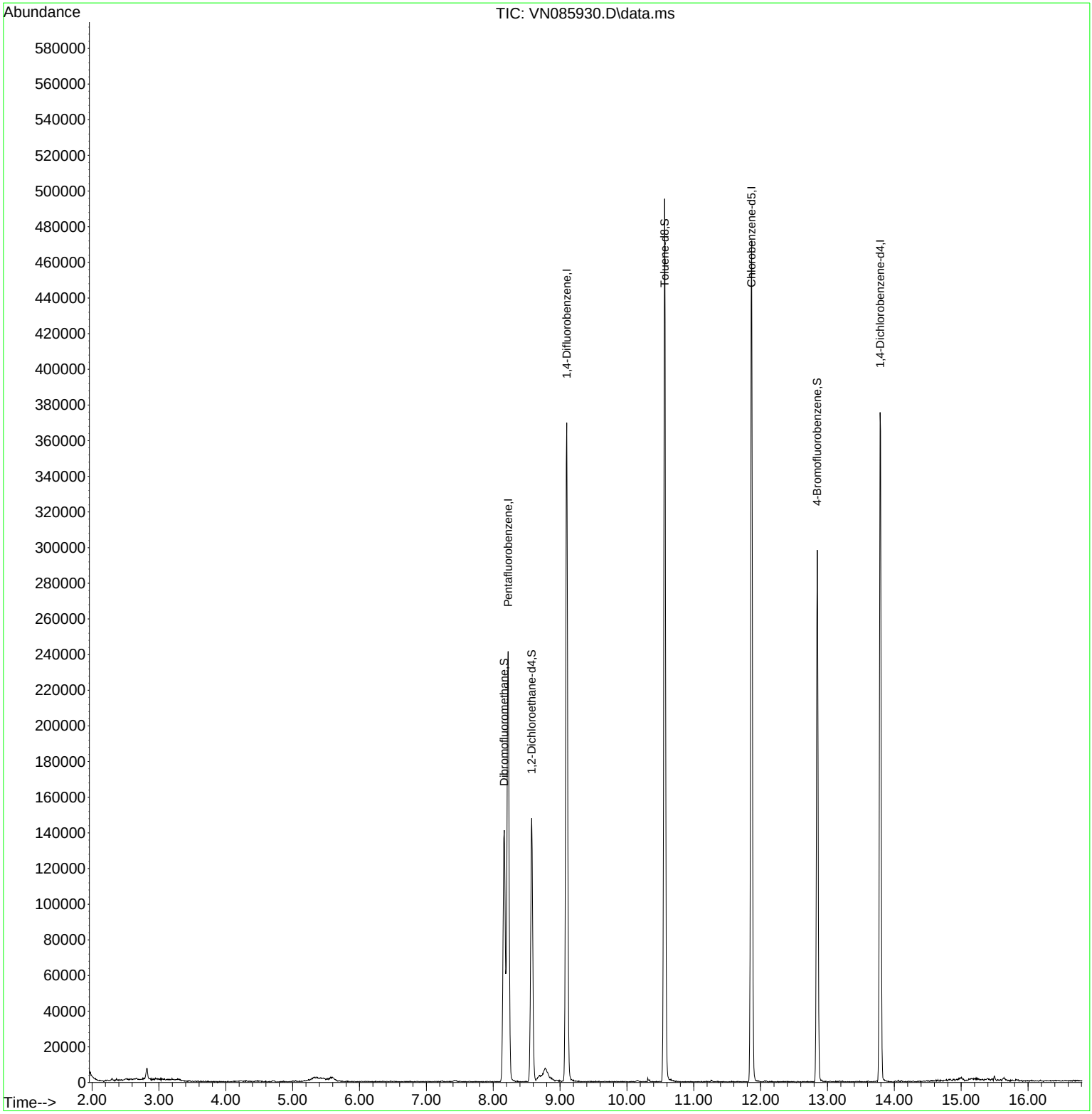
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	166099	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	319285	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	277562	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	106492	50.000	ug/l	0.00
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

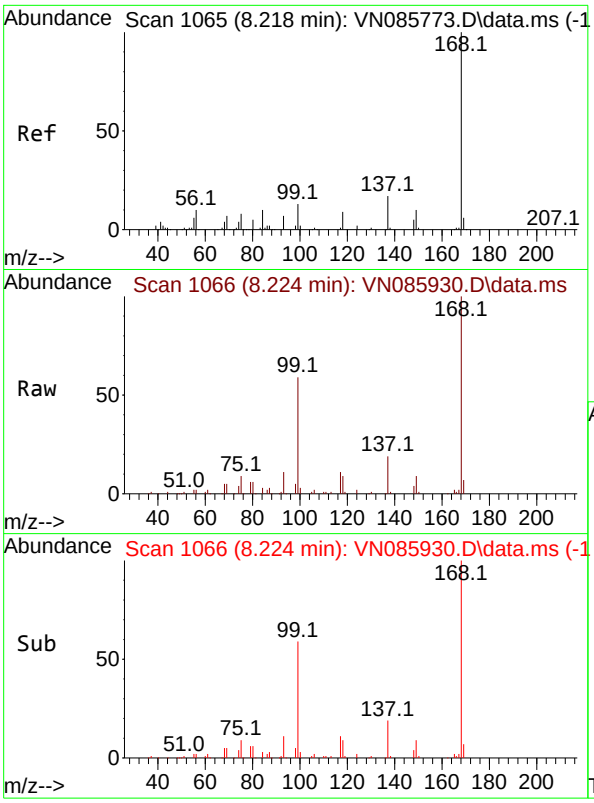
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



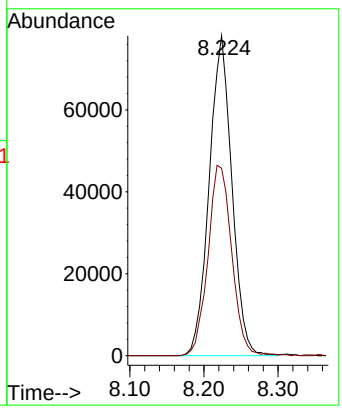


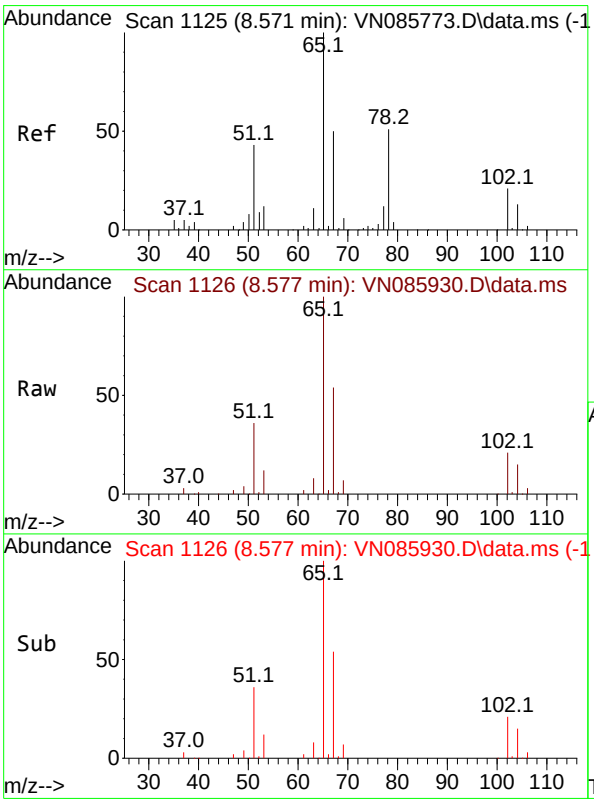
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBL01

Tgt Ion:168 Resp: 166099

Ion	Ratio	Lower	Upper
168	100		
99	58.6	47.9	71.9

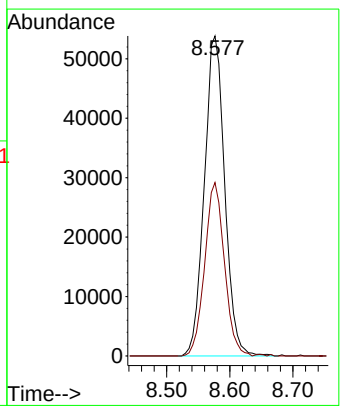


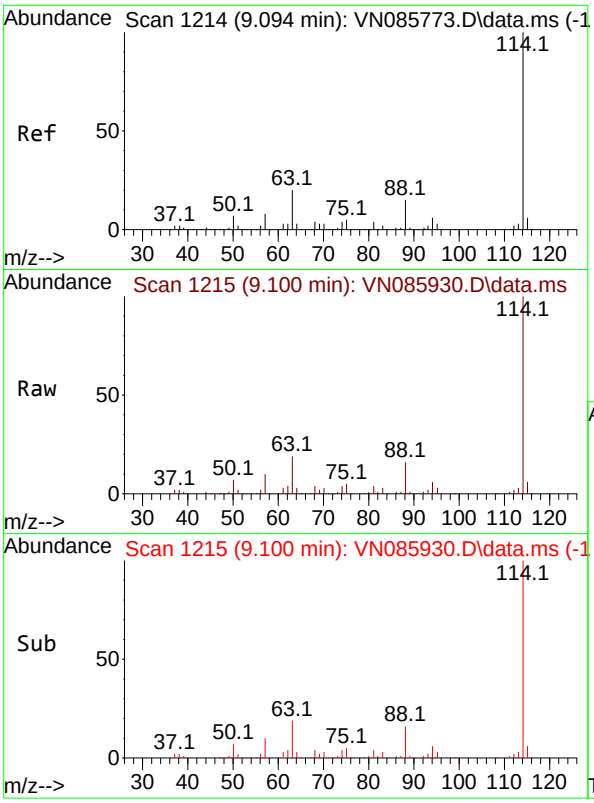


#33
1,2-Dichloroethane-d4
Concen: 56.110 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

Tgt Ion: 65 Resp: 120828

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.2



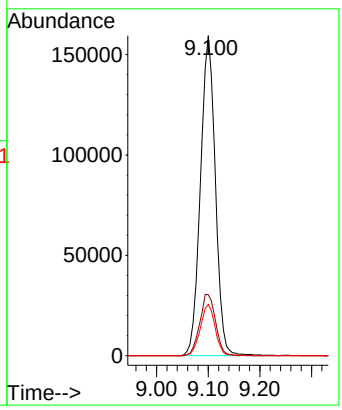


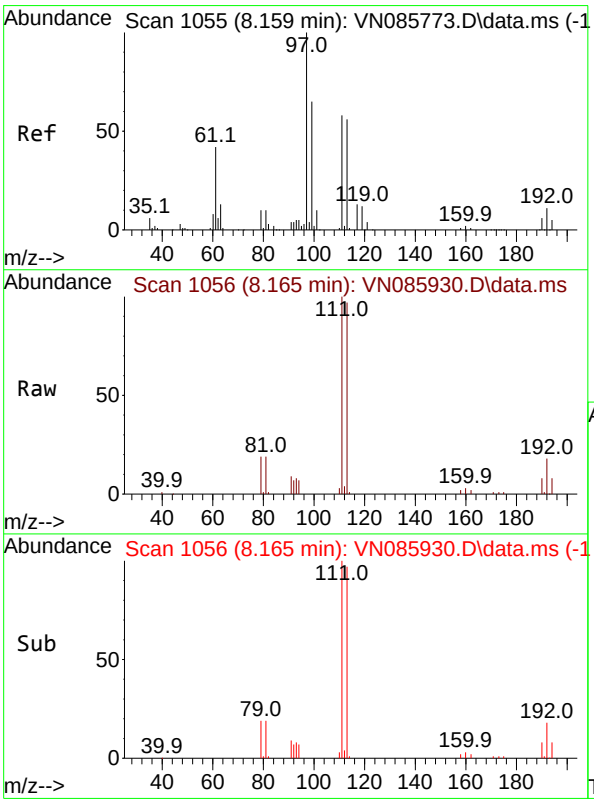
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

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

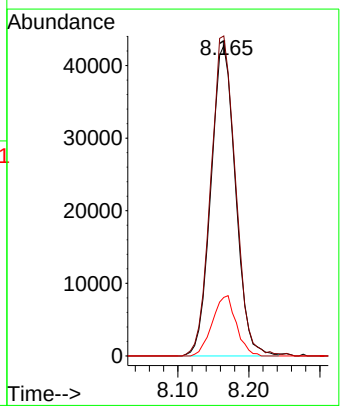


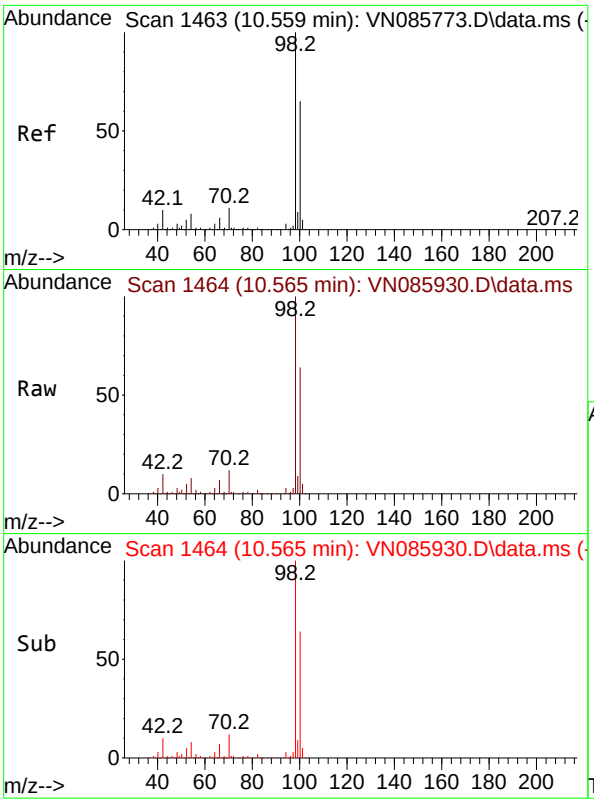


#35
Dibromofluoromethane
Concen: 49.016 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

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



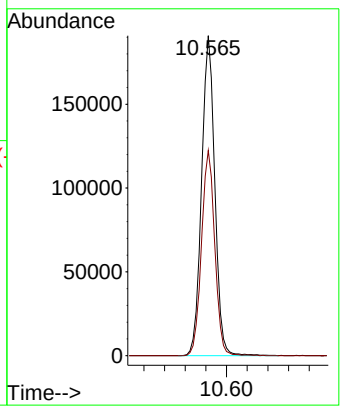


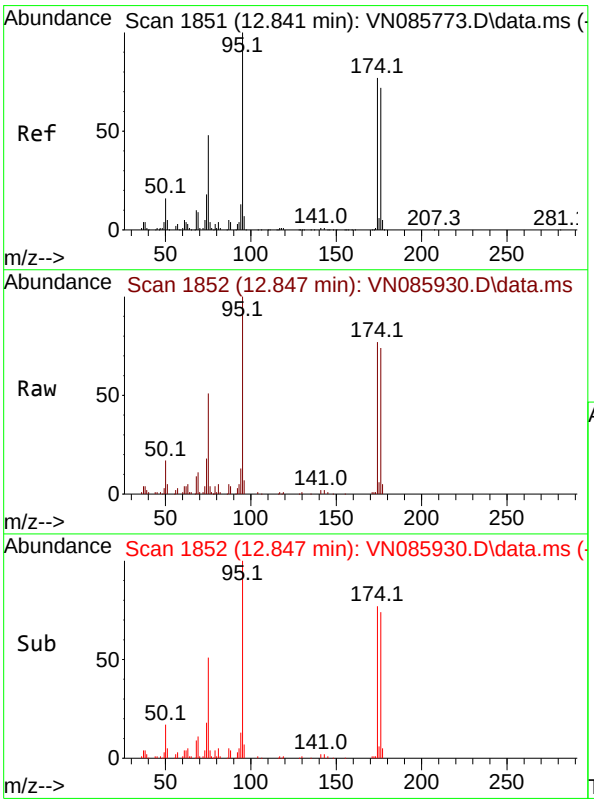
#50
Toluene-d8
Concen: 44.531 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
VN0311WBL01

Tgt Ion: 98 Resp: 338496

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.1	78.1

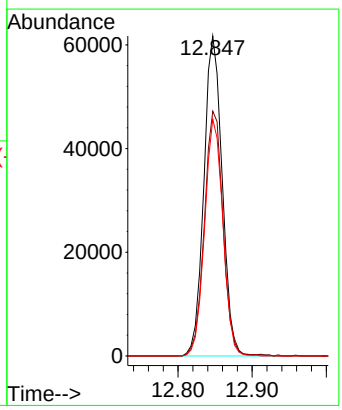


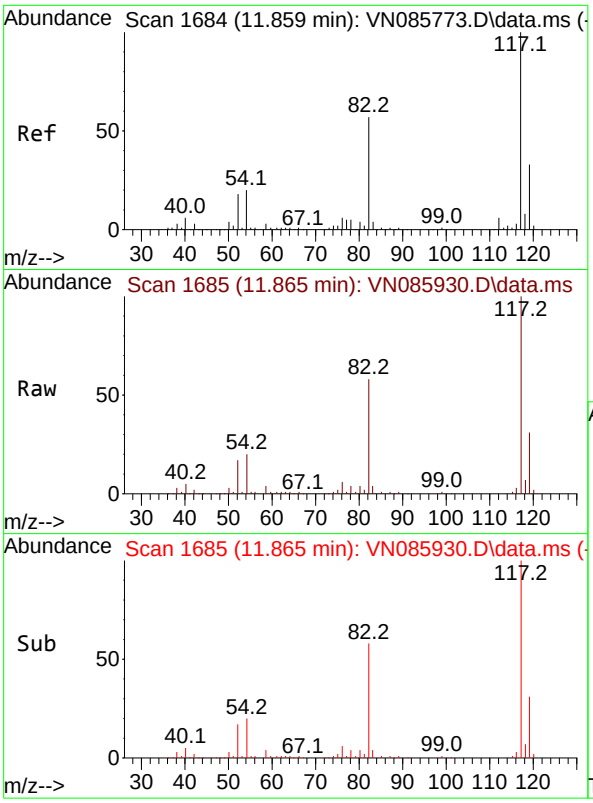


#62
4-Bromofluorobenzene
Concen: 42.240 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

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



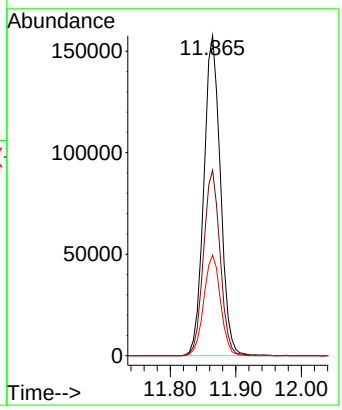


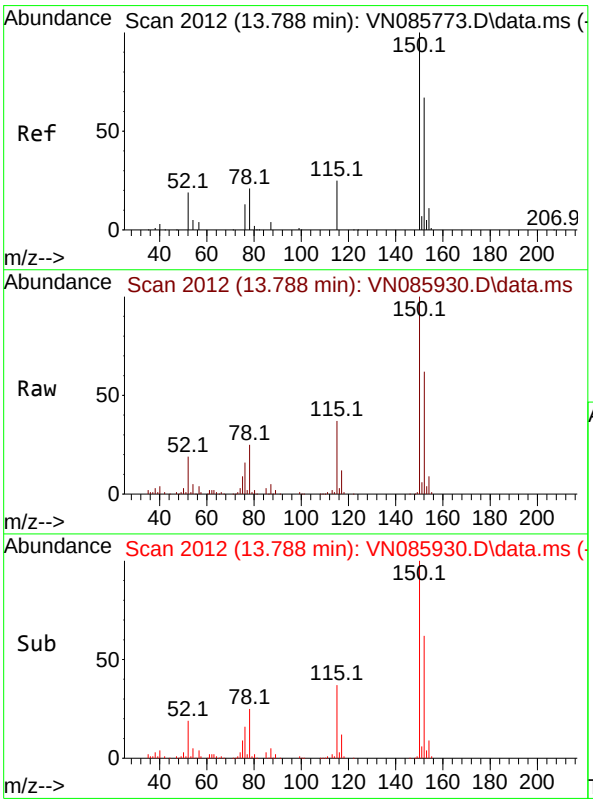
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

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

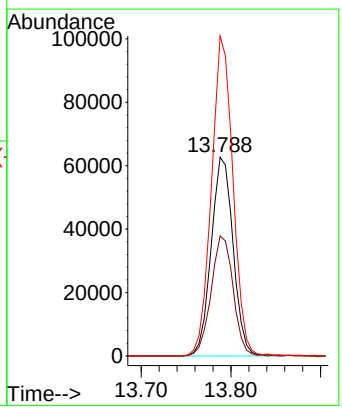




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085930.D
Acq: 11 Mar 2025 14:21

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



Sample Results: **VN085930.D**

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

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085930.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.818	142	147	153	rVB3	6019	10526	1.20%	0.219%
2	8.165	1045	1056	1060	rBV2	141020	328245	37.55%	6.824%
3	8.224	1060	1066	1079	rVB	240917	531178	60.77%	11.043%
4	8.577	1116	1126	1136	rBV	147778	325384	37.23%	6.764%
5	8.777	1152	1160	1172	rVB3	5365	20987	2.40%	0.436%
6	9.100	1206	1215	1226	rBV	369232	744664	85.20%	15.481%
7	10.565	1456	1464	1477	rBV	495271	874059	100.00%	18.171%
8	11.865	1676	1685	1697	rBV	471739	834111	95.43%	17.341%
9	12.847	1845	1852	1861	rBV	298227	504452	57.71%	10.487%
10	13.788	2005	2012	2022	rBV	375417	636575	72.83%	13.234%

Sum of corrected areas: 4810181

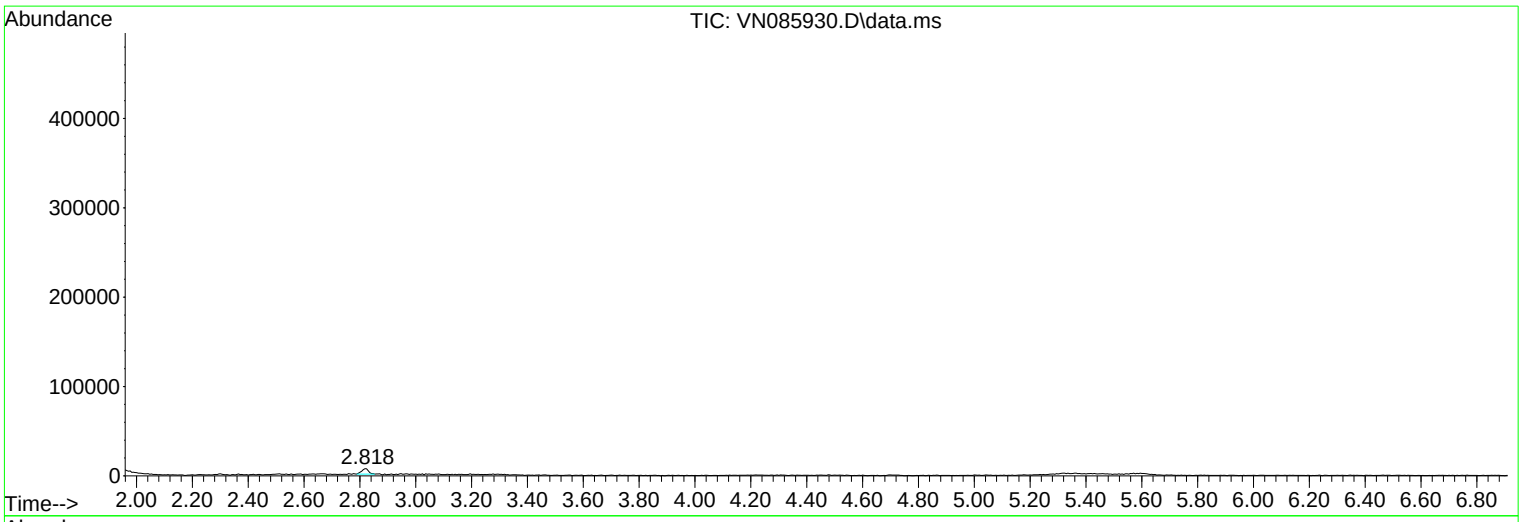
Sample Results: **VN085930.D**

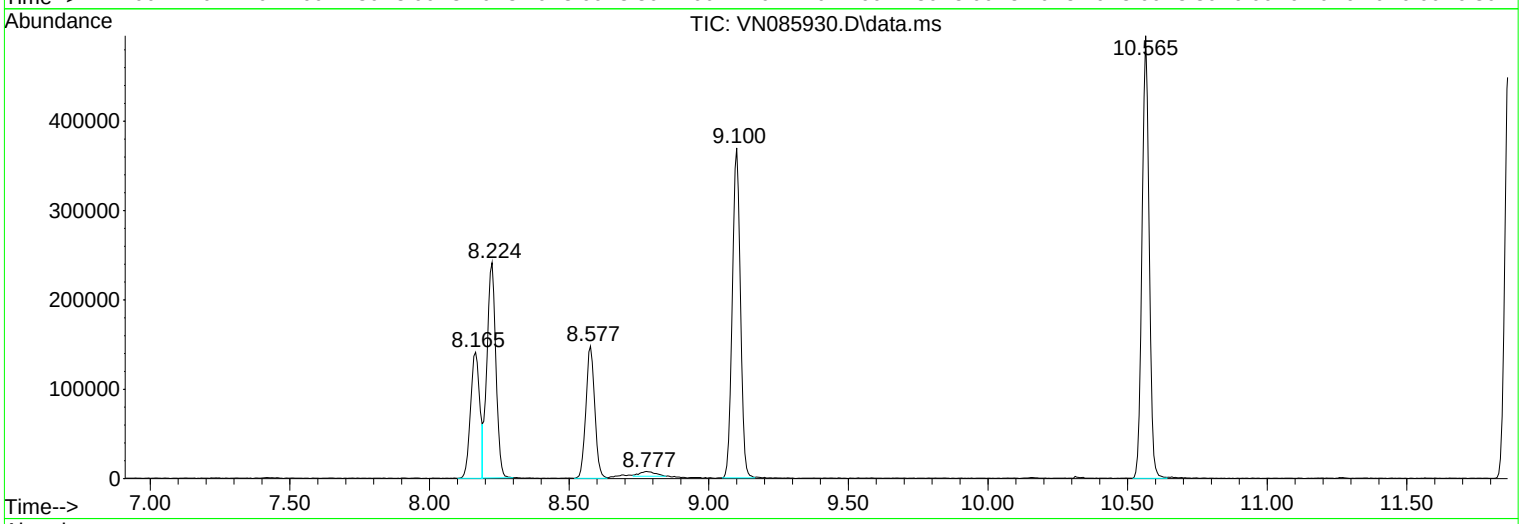
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085930.D
Acq On : 11 Mar 2025 14:21
Operator : JC\MD
Sample : VN0311WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

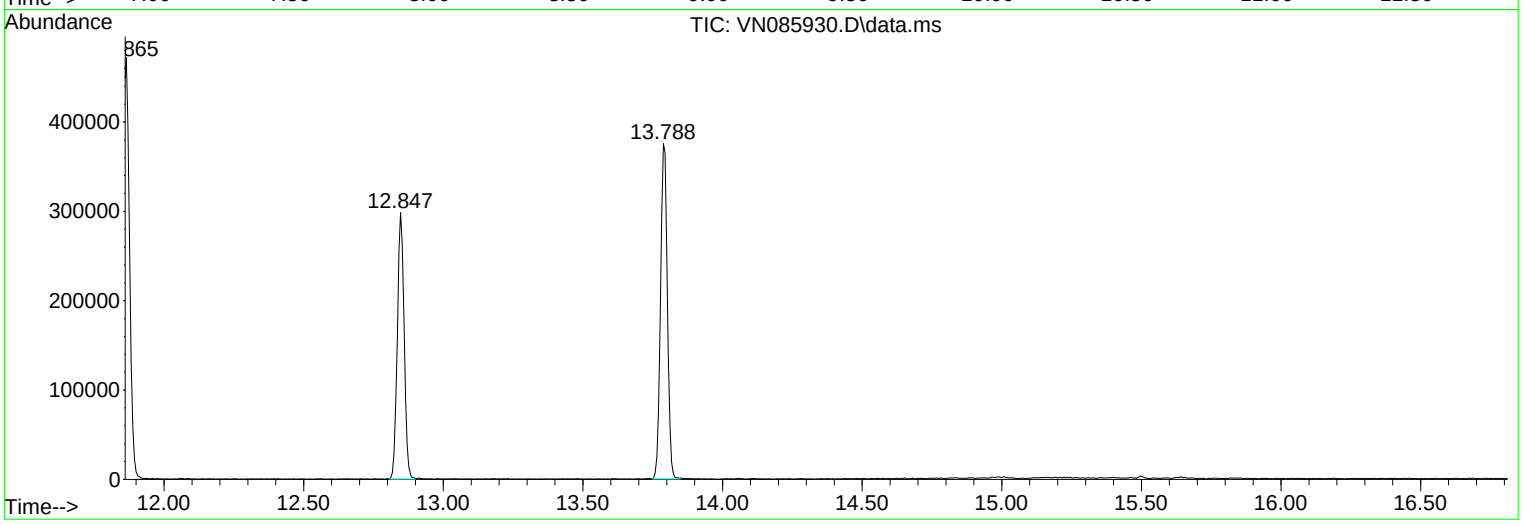
Instrument :
MSVOA_N
ClientSampleId :
VN0311WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







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 Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

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 Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021475.D
Acq On : 11 Mar 2025 10:12
Operator : SY/MD
Sample : VY0311SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBL01

Quant Time: Mar 12 01:23:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	266206	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	468026	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	406786	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	157191	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150026	53.321	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.640%			
35) Dibromofluoromethane	7.634	113	155103	50.417	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.840%			
50) Toluene-d8	10.109	98	564540	48.466	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.940%			
62) 4-Bromofluorobenzene	12.408	95	168454	42.515	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 85.020%			

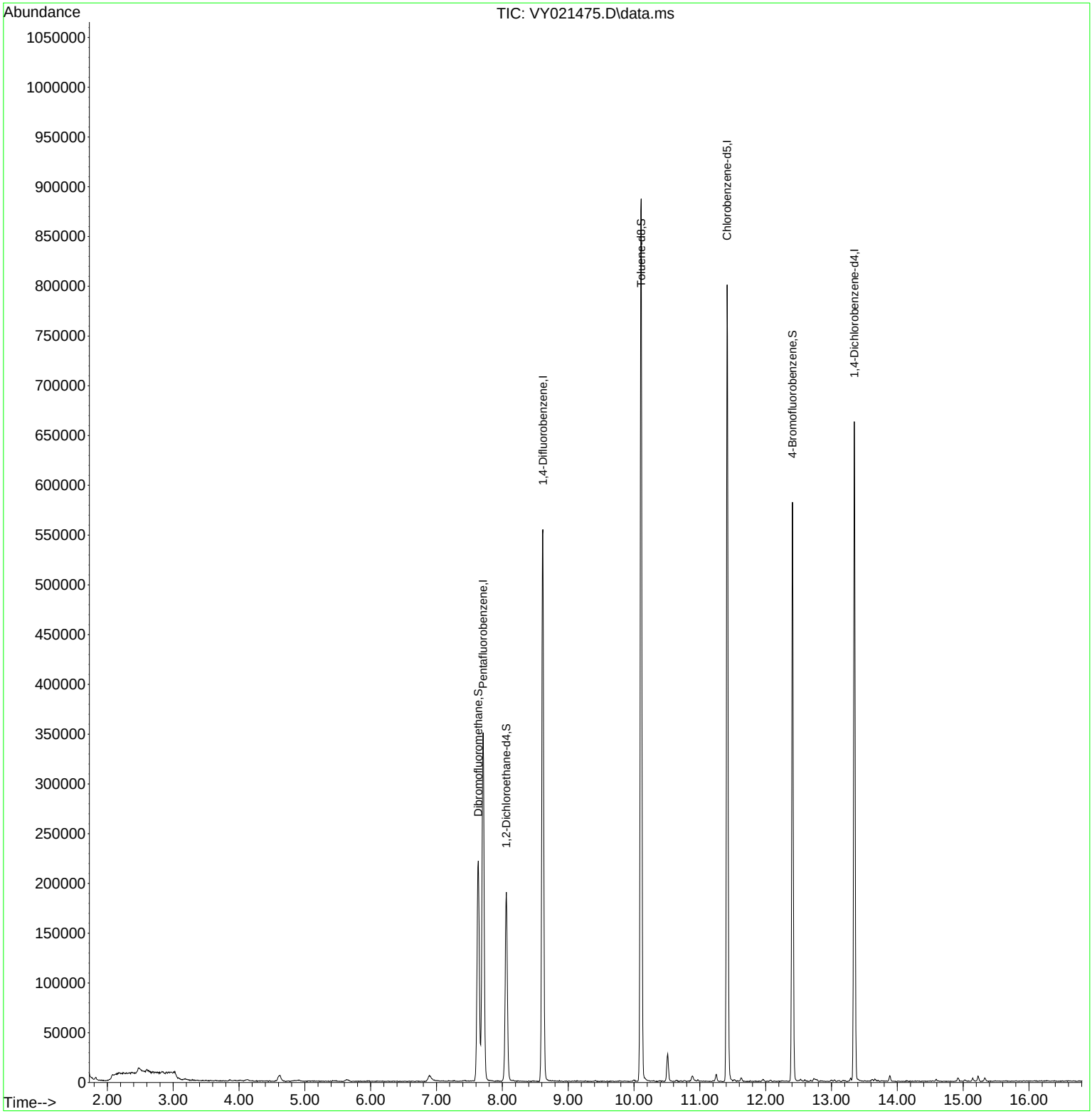
Target Compounds Qvalue

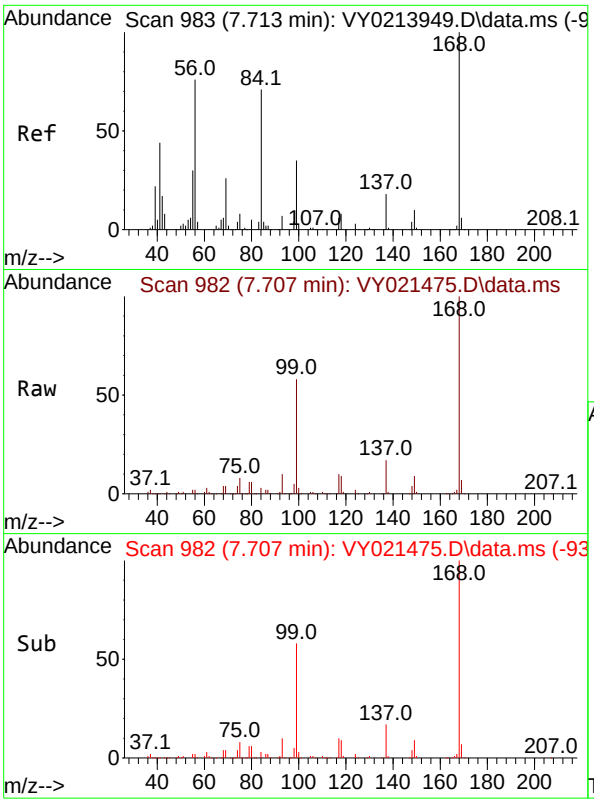
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021475.D
Acq On : 11 Mar 2025 10:12
Operator : SY/MD
Sample : VY0311SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBL01

Quant Time: Mar 12 01:23:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration



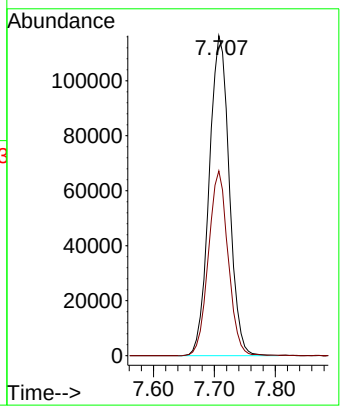


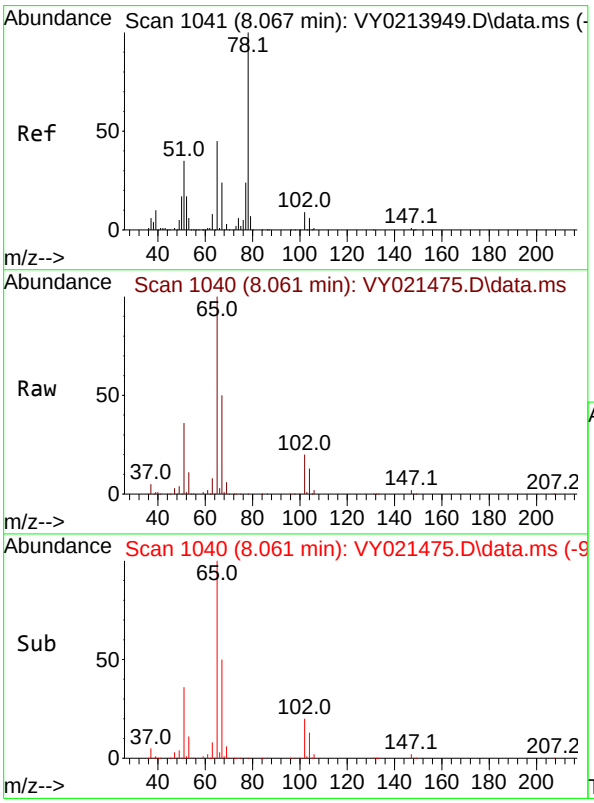
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021475.D
Acq: 11 Mar 2025 10:12

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBL01

Tgt Ion:168 Resp: 266206

Ion	Ratio	Lower	Upper
168	100		
99	57.7	46.0	69.0

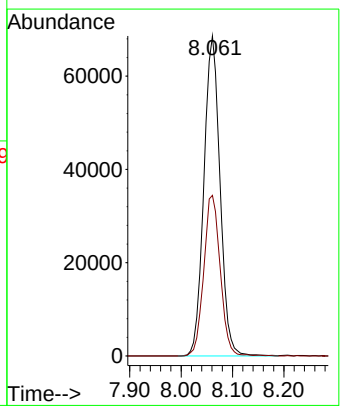


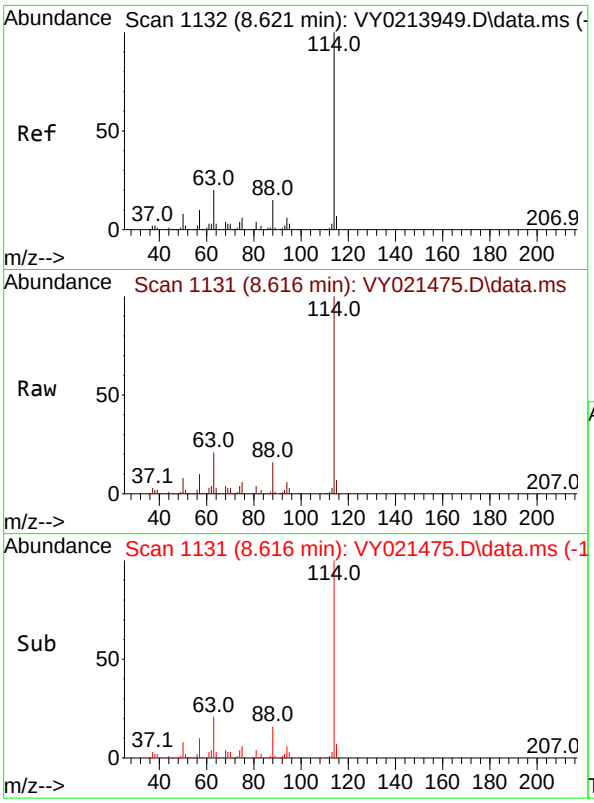


#33
1,2-Dichloroethane-d4
Concen: 53.321 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021475.D
Acq: 11 Mar 2025 10:12

Tgt Ion: 65 Resp: 150026

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	102.8



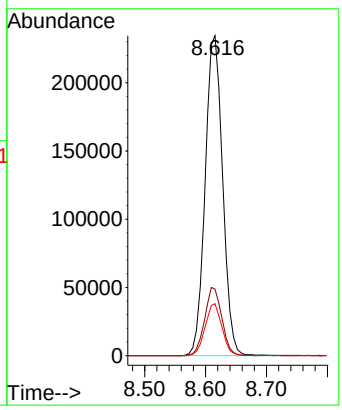


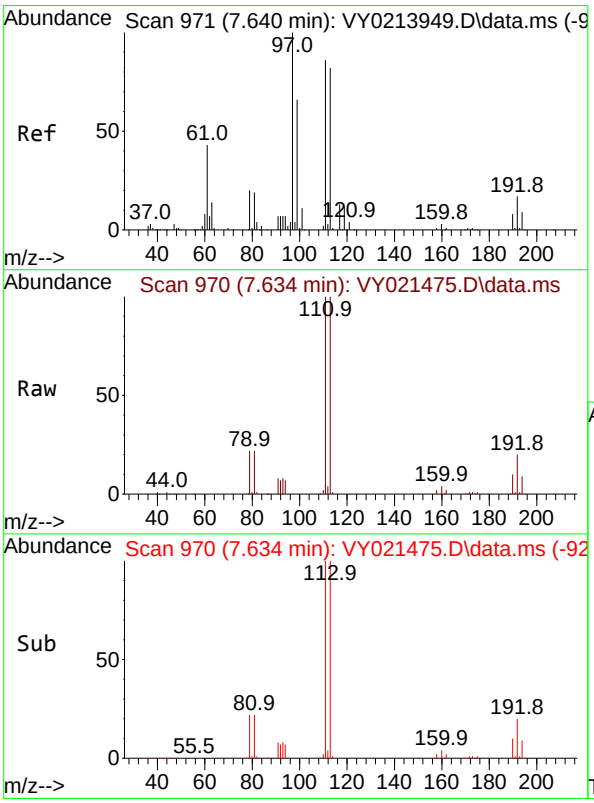
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021475.D
Acq: 11 Mar 2025 10:12

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBL01

Tgt Ion:114 Resp: 468026

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.8
88	16.3	0.0	30.8

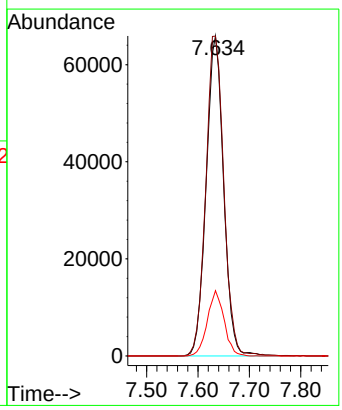


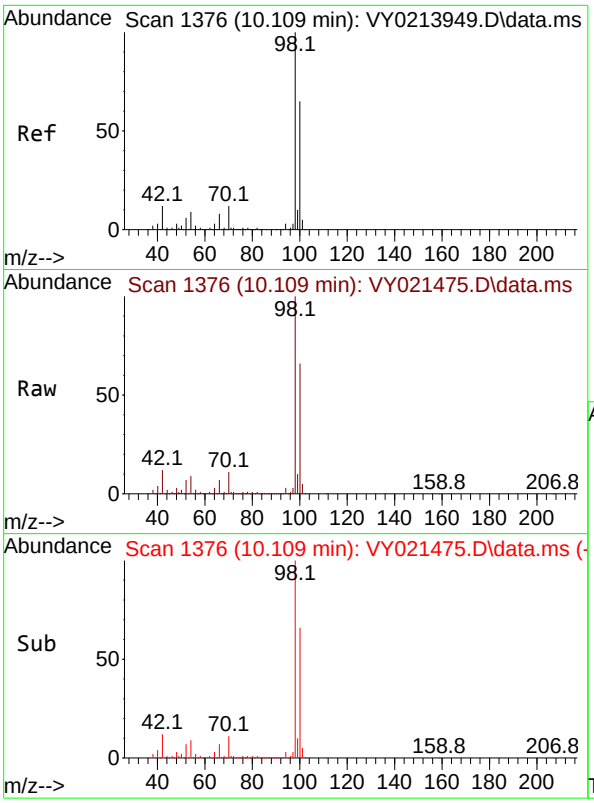


#35
Dibromofluoromethane
Concen: 50.417 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY021475.D
Acq: 11 Mar 2025 10:12

Tgt Ion:113 Resp: 155103

Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.0	123.0
192	19.6	15.9	23.9



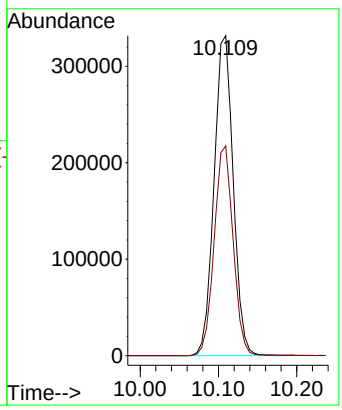


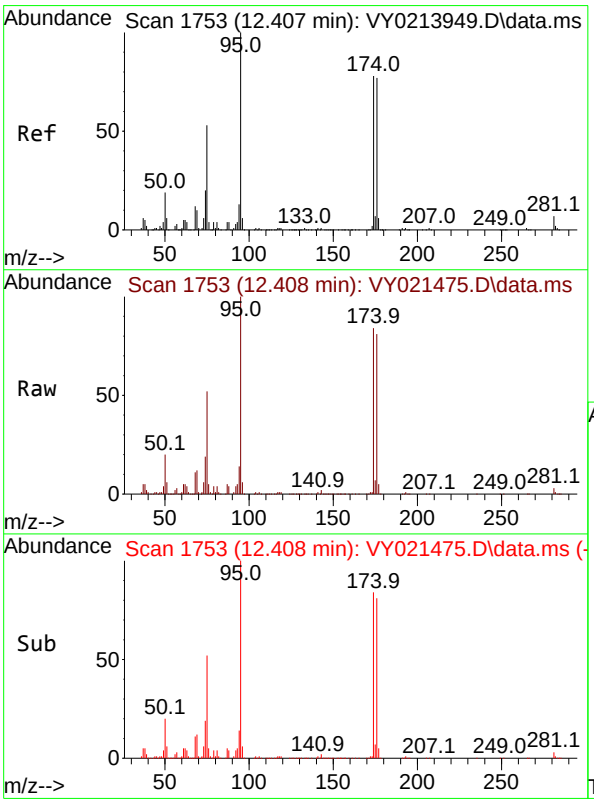
#50
Toluene-d8
Concen: 48.466 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021475.D
Acq: 11 Mar 2025 10:12

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBL01

Tgt Ion: 98 Resp: 564540

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.1	78.1

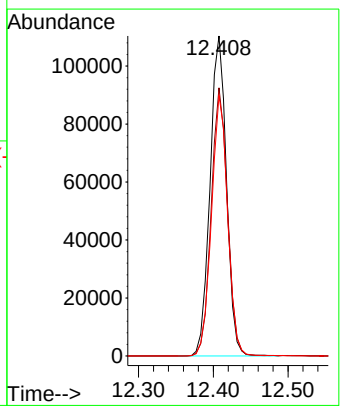


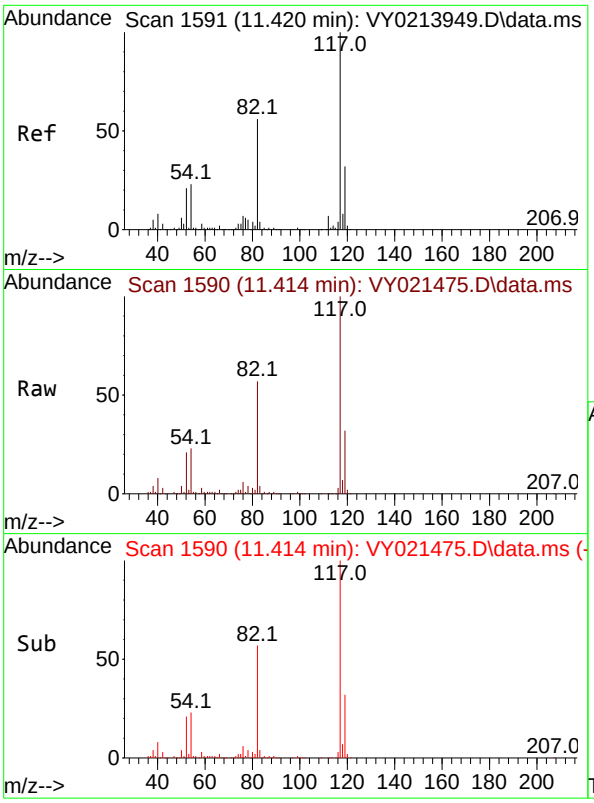


#62
4-Bromofluorobenzene
Concen: 42.515 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021475.D
Acq: 11 Mar 2025 10:12

Tgt Ion: 95 Resp: 168454

Ion	Ratio	Lower	Upper
95	100		
174	83.1	0.0	165.0
176	80.3	0.0	160.0



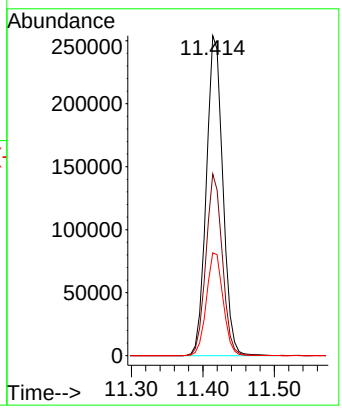


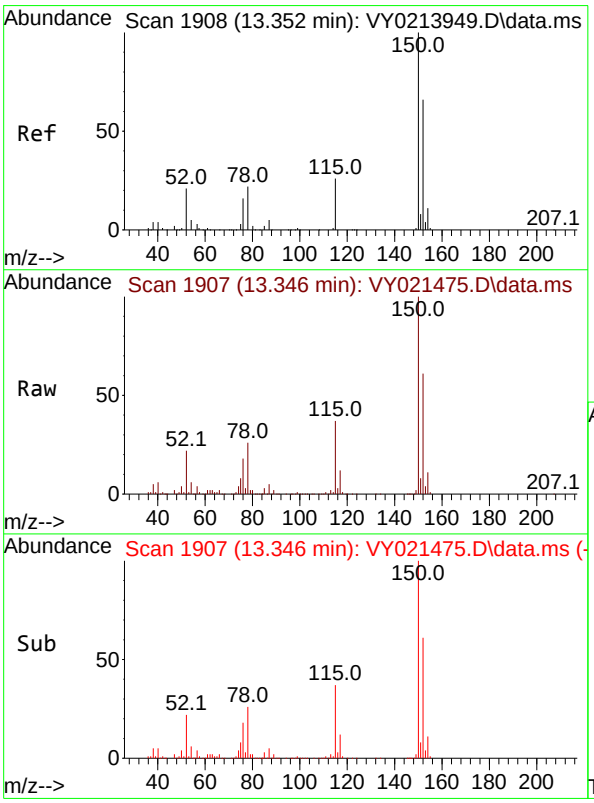
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021475.D
Acq: 11 Mar 2025 10:12

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBL01

Tgt Ion:117 Resp: 406786

Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.6	67.0
119	32.1	25.4	38.0

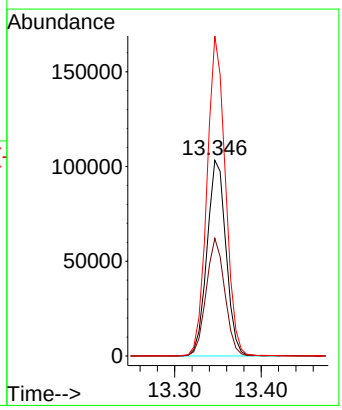




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021475.D
Acq: 11 Mar 2025 10:12

Tgt Ion:152 Resp: 157191

Ion	Ratio	Lower	Upper
152	100		
115	59.1	29.0	87.0
150	158.4	0.0	347.2



Sample Results: **VY021475.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021475.D
Acq On : 11 Mar 2025 10:12
Operator : SY/MD
Sample : VY0311SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Title : SW846 8260

Signal : TIC: VY021475.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	48	59	62	rBV5	5881	15838	1.04%	0.207%
2	7.634	959	970	976	rBV	221263	533509	35.06%	6.959%
3	7.707	976	982	996	rVB	349729	797482	52.41%	10.402%
4	8.061	1027	1040	1051	rBV	190394	436972	28.72%	5.700%
5	8.616	1122	1131	1146	rBV	554486	1117631	73.45%	14.578%
6	10.109	1366	1376	1384	rBV	886650	1521614	100.00%	19.848%
7	10.512	1434	1442	1455	rVB2	27465	51790	3.40%	0.676%
8	11.414	1579	1590	1604	rBV	800721	1294088	85.05%	16.880%
9	12.408	1745	1753	1764	rBV	581940	909363	59.76%	11.862%
10	13.346	1900	1907	1920	rVB	662019	988037	64.93%	12.888%

Sum of corrected areas: 7666324

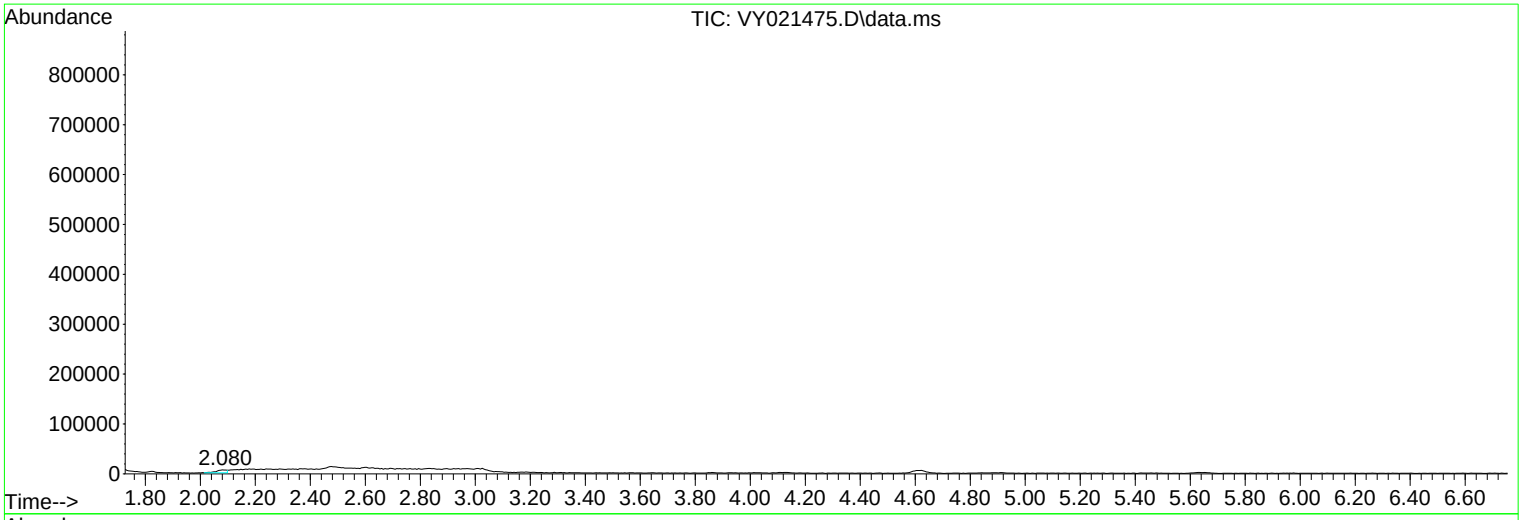
Sample Results: **VY021475.D**

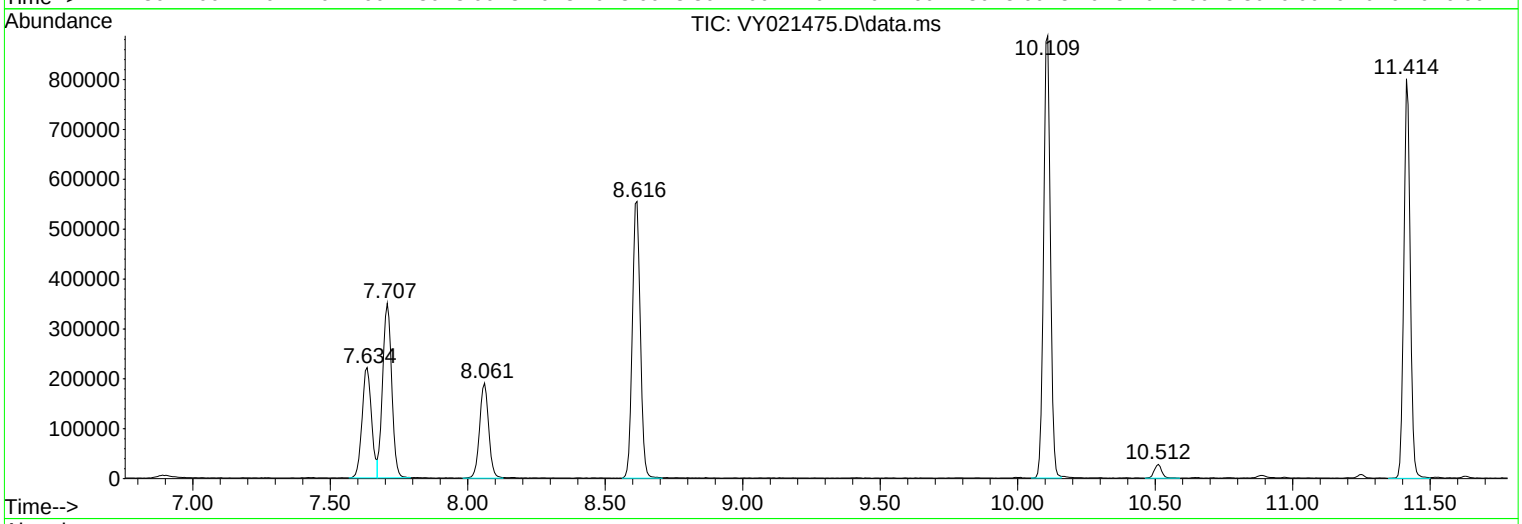
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021475.D
Acq On : 11 Mar 2025 10:12
Operator : SY/MD
Sample : VY0311SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

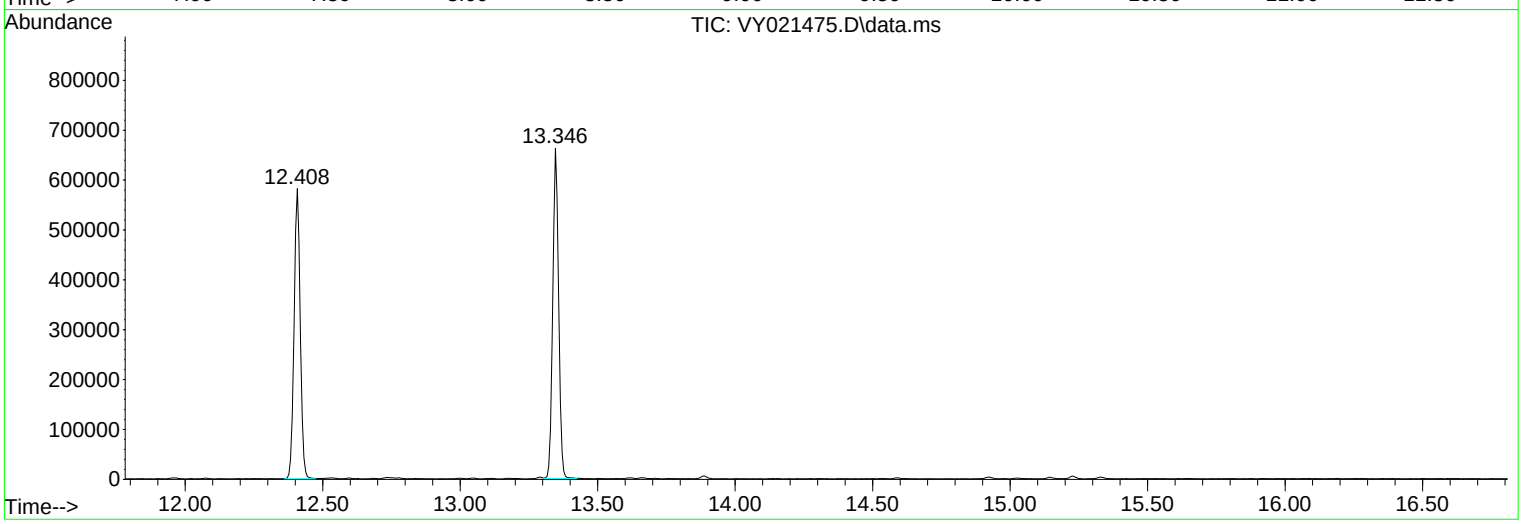
Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VY021475.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021475.D
Acq On : 11 Mar 2025 10:12
Operator : SY/MD
Sample : VY0311SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021475.D
Acq On : 11 Mar 2025 10:12
Operator : SY/MD
Sample : VY0311SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085917.D
Acq On : 10 Mar 2025 16:12
Operator : JC\MD
Sample : VN0310WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 11 01:37:41 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 :
VN0310WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	200845	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	334623	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	292041	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146257	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	131058	50.332	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.660%			
35) Dibromofluoromethane	8.165	113	107868	49.264	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.520%			
50) Toluene-d8	10.565	98	398387	50.008	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.020%			
62) 4-Bromofluorobenzene	12.847	95	142745	54.384	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.760%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	57613	21.089	ug/l	100
3) Chloromethane	2.360	50	57722	21.056	ug/l	96
4) Vinyl Chloride	2.512	62	57065	19.660	ug/l	97
5) Bromomethane	2.954	94	32967	17.763	ug/l	100
6) Chloroethane	3.118	64	33612	17.483	ug/l	95
7) Trichlorofluoromethane	3.495	101	83531	19.877	ug/l	95
8) Diethyl Ether	3.959	74	28433	20.911	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.371	101	48628	20.019	ug/l	98
10) Methyl Iodide	4.589	142	60569	20.228	ug/l	100
11) Tert butyl alcohol	5.512	59	33809	105.567	ug/l	99
12) 1,1-Dichloroethene	4.342	96	44916	20.393	ug/l	99
13) Acrolein	4.177	56	37933	79.872	ug/l	98
14) Allyl chloride	5.024	41	62929m	21.761	ug/l	
15) Acrylonitrile	5.712	53	113350	108.871	ug/l	100
16) Acetone	4.430	43	87841	106.614	ug/l	94
17) Carbon Disulfide	4.712	76	144261	22.100	ug/l	99
18) Methyl Acetate	5.024	43	47804	16.869	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	140217	21.424	ug/l	99
20) Methylene Chloride	5.277	84	54426	20.541	ug/l	97
21) trans-1,2-Dichloroethene	5.783	96	47809	20.159	ug/l	93
22) Diisopropyl ether	6.671	45	148727	22.761	ug/l	96
23) Vinyl Acetate	6.600	43	501410	112.072	ug/l	97
24) 1,1-Dichloroethane	6.565	63	92748	20.880	ug/l	100
25) 2-Butanone	7.477	43	133104	109.810	ug/l	97
26) 2,2-Dichloropropane	7.494	77	79534	20.136	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	54981	19.994	ug/l	97
28) Bromochloromethane	7.806	49	45217	24.767	ug/l	91
29) Tetrahydrofuran	7.836	42	90483	115.599	ug/l	96
30) Chloroform	7.965	83	95608	20.596	ug/l	98
31) Cyclohexane	8.253	56	81228	21.841	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	84568	20.483	ug/l	99
36) 1,1-Dichloropropene	8.371	75	65697	21.200	ug/l	100
37) Ethyl Acetate	7.559	43	56201	22.038	ug/l	100
38) Carbon Tetrachloride	8.359	117	76435	20.759	ug/l	94
39) Methylcyclohexane	9.600	83	65571	21.539	ug/l	95
40) Benzene	8.600	78	207478	20.890	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085917.D
Acq On : 10 Mar 2025 16:12
Operator : JC\MD
Sample : VN0310WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 11 01:37:41 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 :
VN0310WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	30822	22.609	ug/l		99
42) 1,2-Dichloroethane	8.665	62	67821	20.964	ug/l		99
43) Isopropyl Acetate	8.683	43	99818	21.997	ug/l		97
44) Trichloroethene	9.347	130	48294	19.804	ug/l		98
45) 1,2-Dichloropropane	9.618	63	51217	21.363	ug/l		95
46) Dibromomethane	9.706	93	36115	21.356	ug/l		94
47) Bromodichloromethane	9.883	83	73646	20.356	ug/l		99
48) Methyl methacrylate	9.677	41	41798	22.069	ug/l		99
49) 1,4-Dioxane	9.694	88	16551	459.552	ug/l	#	92
51) 4-Methyl-2-Pentanone	10.441	43	279017	113.479	ug/l		99
52) Toluene	10.630	92	127383	21.879	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	72257	21.598	ug/l		95
54) cis-1,3-Dichloropropene	10.306	75	79526	21.678	ug/l		96
55) 1,1,2-Trichloroethane	11.012	97	47012	20.309	ug/l		96
56) Ethyl methacrylate	10.871	69	65527	21.330	ug/l		97
57) 1,3-Dichloropropane	11.159	76	81072	20.980	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	119007	107.514	ug/l		100
59) 2-Hexanone	11.194	43	195283	115.451	ug/l		100
60) Dibromochloromethane	11.359	129	55963	20.762	ug/l		100
61) 1,2-Dibromoethane	11.465	107	45190	20.662	ug/l		98
64) Tetrachloroethene	11.100	164	47256	20.887	ug/l		98
65) Chlorobenzene	11.888	112	134588	20.117	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	48625	20.221	ug/l		99
67) Ethyl Benzene	11.959	91	222002	21.184	ug/l		99
68) m/p-Xylenes	12.071	106	178774	44.909	ug/l		97
69) o-Xylene	12.394	106	81625	21.578	ug/l		97
70) Styrene	12.412	104	139738	21.331	ug/l		99
71) Bromoform	12.576	173	37954	21.241	ug/l	#	97
73) Isopropylbenzene	12.694	105	205977	20.557	ug/l		100
74) N-amyl acetate	12.488	43	75965	21.499	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	66697	19.344	ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	63325m	19.491	ug/l		
77) Bromobenzene	12.976	156	53582	19.793	ug/l		94
78) n-propylbenzene	13.035	91	245662	21.408	ug/l		100
79) 2-Chlorotoluene	13.124	91	156311	20.387	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	178809	21.907	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	22842m	20.514	ug/l		
82) 4-Chlorotoluene	13.218	91	161545	21.253	ug/l		98
83) tert-Butylbenzene	13.435	119	142797	20.804	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	178289	22.078	ug/l		99
85) sec-Butylbenzene	13.612	105	206382	21.281	ug/l		99
86) p-Isopropyltoluene	13.729	119	167380	20.150	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	98140	19.350	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	101248	19.477	ug/l		99
89) n-Butylbenzene	14.053	91	136007	19.753	ug/l		98
90) Hexachloroethane	14.329	117	35650	19.411	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	95758	19.634	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	11464	18.106	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	43547	18.738	ug/l		100
94) Hexachlorobutadiene	15.500	225	25307	17.918	ug/l		99
95) Naphthalene	15.635	128	117761	18.457	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	42653	18.282	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085917.D
Acq On : 10 Mar 2025 16:12
Operator : JC\MD
Sample : VN0310WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 11 01:37:41 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 :
VN0310WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

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

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

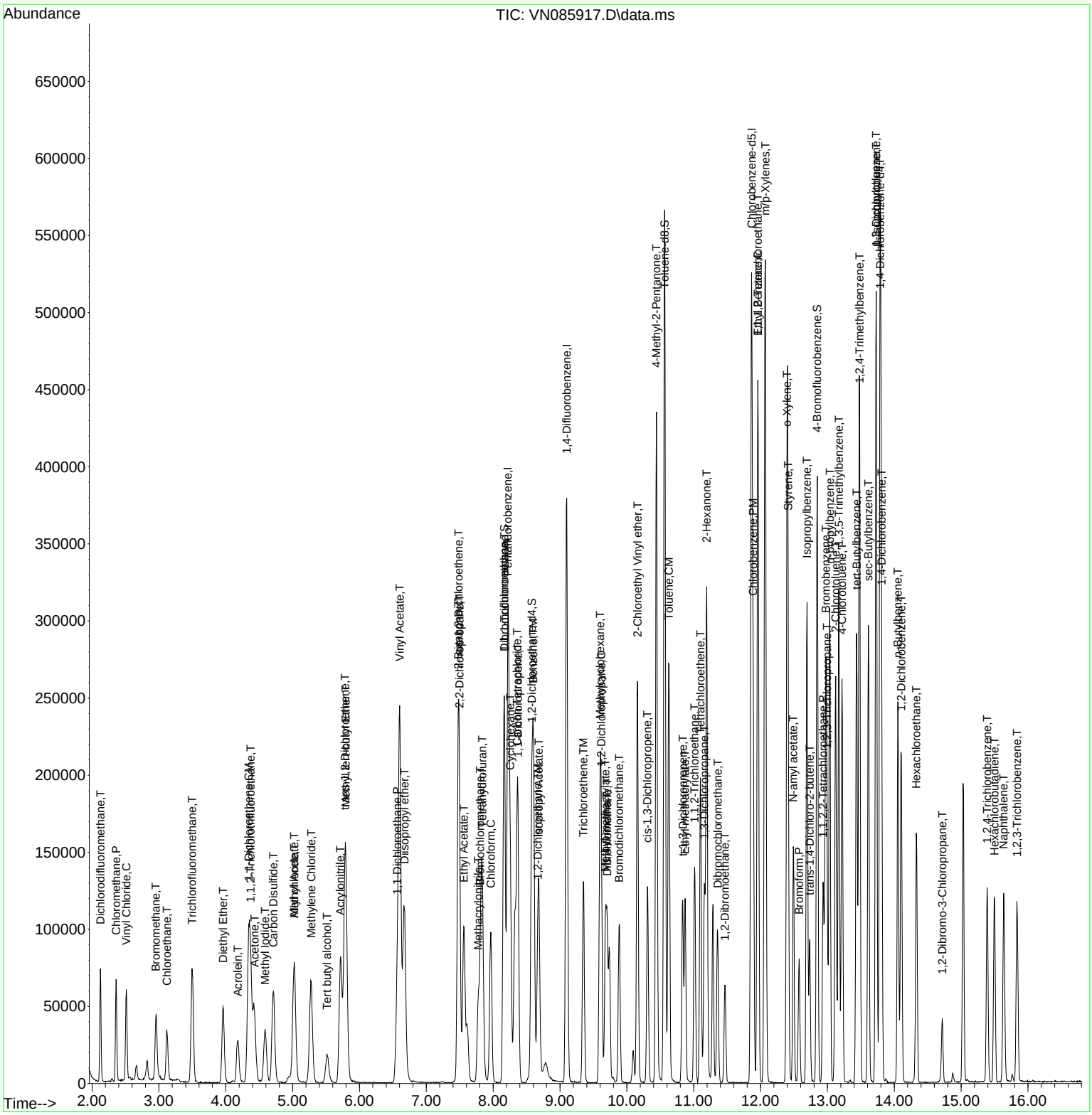
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085917.D
Acq On : 10 Mar 2025 16:12
Operator : JC\MD
Sample : VN0310WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 11 01:37:41 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 :
VN0310WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025



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

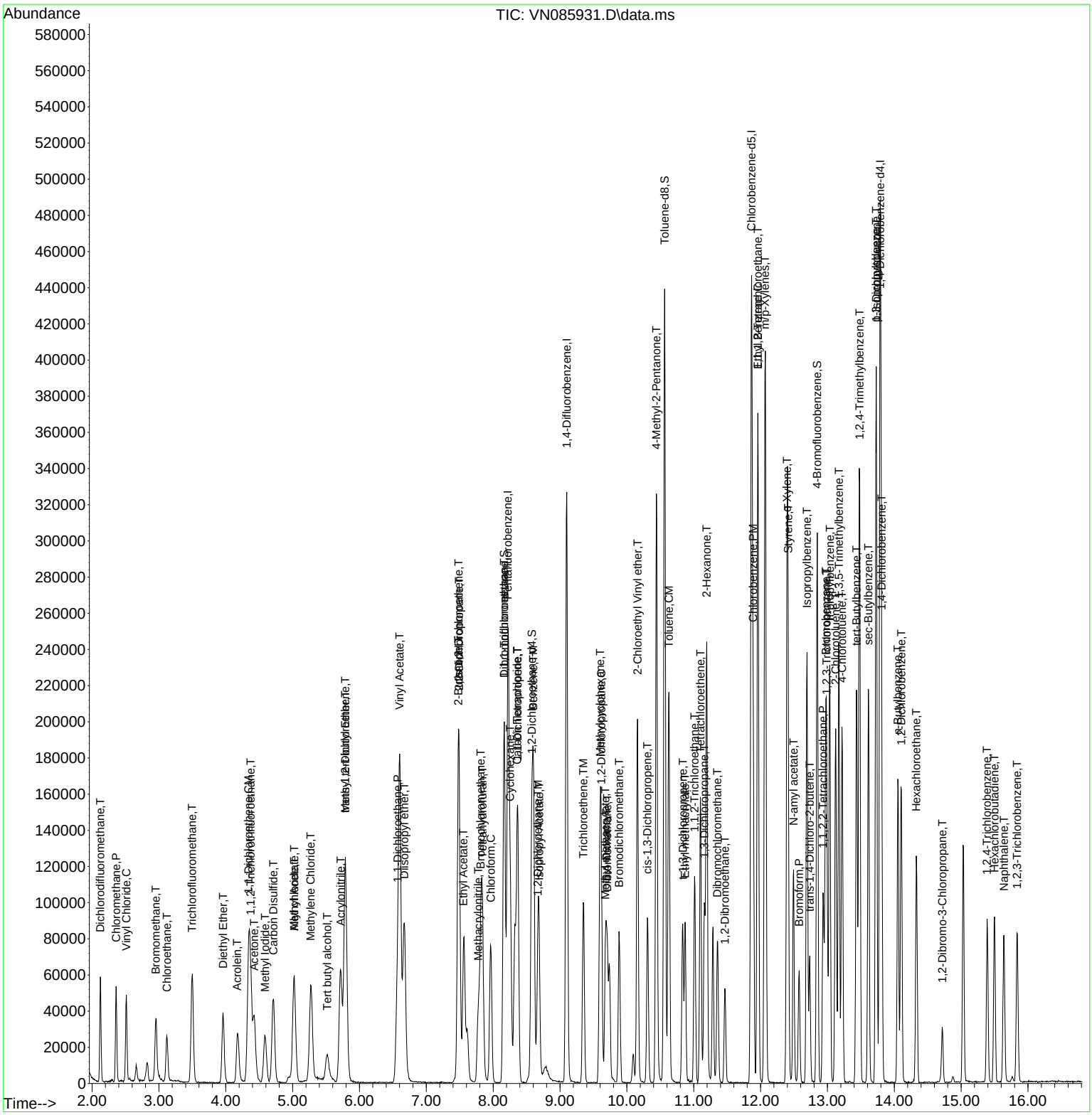
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
Data File : VN085931.D
Acq On : 11 Mar 2025 14:54
Operator : JC\MD
Sample : VN0311WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

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_Y\Data\VY031125\
Data File : VY021476.D
Acq On : 11 Mar 2025 11:03
Operator : SY/MD
Sample : VY0311SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 01:23:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	225793	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	350967	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.414	117	312829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	162394	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	125150	52.441	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.880%			
35) Dibromofluoromethane	7.634	113	122087	52.921	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.840%			
50) Toluene-d8	10.103	98	456082	52.214	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.420%			
62) 4-Bromofluorobenzene	12.407	95	155886	52.465	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 104.920%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	36522	17.626	ug/l	98
3) Chloromethane	2.068	50	57141	19.560	ug/l	98
4) Vinyl Chloride	2.202	62	63319	19.835	ug/l	96
5) Bromomethane	2.586	94	44828	19.429	ug/l	96
6) Chloroethane	2.732	64	45130	21.392	ug/l	98
7) Trichlorofluoromethane	3.049	101	92591	20.780	ug/l	98
8) Diethyl Ether	3.452	74	21657	17.538	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.811	101	44702	17.571	ug/l	97
10) Methyl Iodide	4.000	142	49215	19.031	ug/l	99
11) Tert butyl alcohol	4.848	59	14756	79.754	ug/l #	72
12) 1,1-Dichloroethene	3.781	96	41993	18.105	ug/l	93
13) Acrolein	3.653	56	14894	122.699	ug/l	92
14) Allyl chloride	4.378	41	67368	17.973	ug/l	99
15) Acrylonitrile	5.055	53	47717	90.776	ug/l	98
16) Acetone	3.860	43	60913	117.024	ug/l	93
17) Carbon Disulfide	4.098	76	128022	17.612	ug/l	100
18) Methyl Acetate	4.385	43	21593	18.696	ug/l	97
19) Methyl tert-butyl Ether	5.110	73	101276	17.228	ug/l	97
20) Methylene Chloride	4.610	84	49393	18.077	ug/l	98
21) trans-1,2-Dichloroethene	5.104	96	46396	17.862	ug/l	98
22) Diisopropyl ether	6.018	45	149058	18.453	ug/l	94
23) Vinyl Acetate	5.957	43	402758	87.365	ug/l	99
24) 1,1-Dichloroethane	5.909	63	88873	18.641	ug/l	99
25) 2-Butanone	6.884	43	71454	99.237	ug/l	95
26) 2,2-Dichloropropane	6.878	77	79429	18.107	ug/l	98
27) cis-1,2-Dichloroethene	6.884	96	53763	18.219	ug/l	99
28) Bromochloromethane	7.238	49	39070	19.547	ug/l	99
29) Tetrahydrofuran	7.262	42	38712	87.089	ug/l	99
30) Chloroform	7.414	83	94319	19.052	ug/l	92
31) Cyclohexane	7.695	56	74535	16.676	ug/l	93
32) 1,1,1-Trichloroethane	7.610	97	83652	18.454	ug/l	99
36) 1,1-Dichloropropene	7.829	75	64167	17.769	ug/l	98
37) Ethyl Acetate	6.975	43	28552	17.889	ug/l	97
38) Carbon Tetrachloride	7.811	117	74788	18.008	ug/l	99
39) Methylcyclohexane	9.109	83	74823	16.892	ug/l	98
40) Benzene	8.073	78	194135	18.250	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021476.D
Acq On : 11 Mar 2025 11:03
Operator : SY/MD
Sample : VY0311SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 01:23:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	15407m	17.728	ug/l		
42) 1,2-Dichloroethane	8.152	62	53330	17.921	ug/l		98
43) Isopropyl Acetate	8.195	43	53006	17.108	ug/l	#	89
44) Trichloroethene	8.865	130	49991	18.597	ug/l		100
45) 1,2-Dichloropropane	9.140	63	46136	18.223	ug/l		97
46) Dibromomethane	9.225	93	26271	18.649	ug/l		100
47) Bromodichloromethane	9.420	83	69491	18.575	ug/l		100
48) Methyl methacrylate	9.219	41	24238	17.036	ug/l		98
49) 1,4-Dioxane	9.219	88	5395	390.187	ug/l	#	95
51) 4-Methyl-2-Pentanone	9.999	43	140438	87.848	ug/l		98
52) Toluene	10.170	92	122381	18.248	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	59746	18.127	ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	70322	17.971	ug/l		97
55) 1,1,2-Trichloroethane	10.572	97	33841	18.365	ug/l		96
56) Ethyl methacrylate	10.438	69	40054	17.044	ug/l		99
57) 1,3-Dichloropropane	10.719	76	57273	17.933	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	99189	91.430	ug/l		98
59) 2-Hexanone	10.761	43	103124	97.556	ug/l		99
60) Dibromochloromethane	10.908	129	45567	18.038	ug/l		99
61) 1,2-Dibromoethane	11.011	107	31157	17.915	ug/l		99
64) Tetrachloroethene	10.646	164	49633	19.511	ug/l		95
65) Chlorobenzene	11.438	112	132210	17.897	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	47893	18.337	ug/l		99
67) Ethyl Benzene	11.517	91	226668	17.481	ug/l		98
68) m/p-Xylenes	11.627	106	177439	36.046	ug/l		100
69) o-Xylene	11.956	106	79371	17.495	ug/l		98
70) Styrene	11.969	104	133951	17.797	ug/l		99
71) Bromoform	12.133	173	25988	17.800	ug/l	#	97
73) Isopropylbenzene	12.255	105	218412	17.074	ug/l		99
74) N-amyl acetate	12.072	43	44220	15.917	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.505	83	37463	16.596	ug/l		97
76) 1,2,3-Trichloropropane	12.554	75	32127m	19.633	ug/l		
77) Bromobenzene	12.535	156	52645	17.591	ug/l		97
78) n-propylbenzene	12.596	91	266301	17.141	ug/l		99
79) 2-Chlorotoluene	12.682	91	154633	17.407	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	183525	17.654	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	11100	15.420	ug/l		98
82) 4-Chlorotoluene	12.779	91	163638	17.789	ug/l		100
83) tert-Butylbenzene	12.999	119	159271	17.174	ug/l		99
84) 1,2,4-Trimethylbenzene	13.041	105	179459	17.387	ug/l		99
85) sec-Butylbenzene	13.176	105	236192	17.117	ug/l		100
86) p-Isopropyltoluene	13.291	119	197171	17.345	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	104308	17.510	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	103420	17.751	ug/l		99
89) n-Butylbenzene	13.621	91	182353	17.372	ug/l		99
90) Hexachloroethane	13.883	117	41489	17.108	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	90389	17.703	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5802	17.158	ug/l		96
93) 1,2,4-Trichlorobenzene	14.925	180	50841	18.230	ug/l		99
94) Hexachlorobutadiene	15.023	225	32185	18.411	ug/l		98
95) Naphthalene	15.145	128	73881	17.695	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	42109	17.953	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021476.D
Acq On : 11 Mar 2025 11:03
Operator : SY/MD
Sample : VY0311SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 01:23:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 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

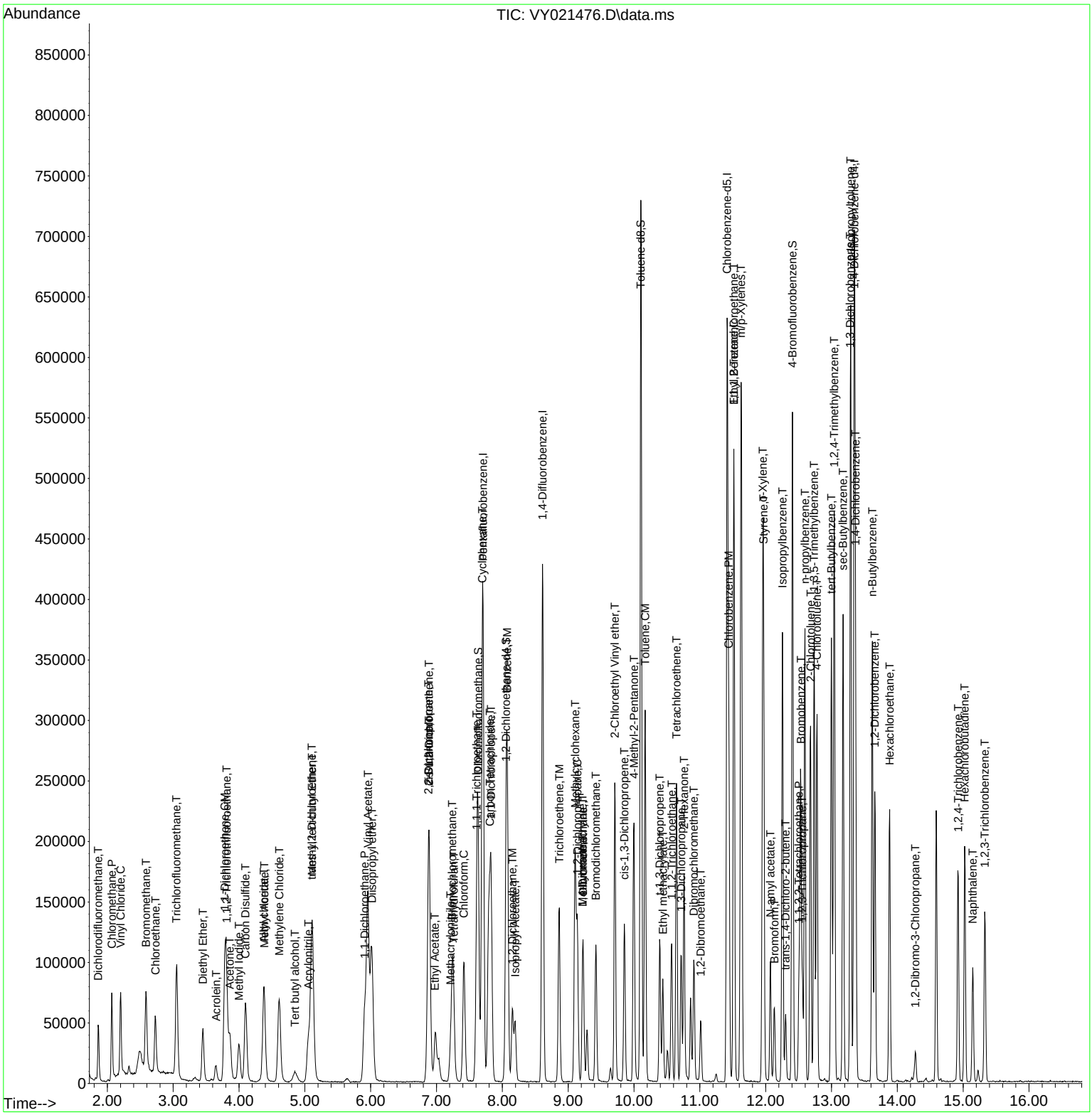
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021476.D
Acq On : 11 Mar 2025 11:03
Operator : SY/MD
Sample : VY0311SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 01:23:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085918.D
Acq On : 10 Mar 2025 16:47
Operator : JC\MD
Sample : VN0310WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 11 01:38:45 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 :
VN0310WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	183155	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304090	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	267080	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130620	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116174	48.925	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.840%			
35) Dibromofluoromethane	8.165	113	93986	47.233	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.460%			
50) Toluene-d8	10.565	98	339498	46.895	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.780%			
62) 4-Bromofluorobenzene	12.847	95	120107	50.354	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	46937	18.841	ug/l	98
3) Chloromethane	2.359	50	47656	19.063	ug/l	94
4) Vinyl Chloride	2.512	62	46041	17.394	ug/l	100
5) Bromomethane	2.959	94	28253	16.693	ug/l	92
6) Chloroethane	3.118	64	28117	16.037	ug/l	96
7) Trichlorofluoromethane	3.495	101	68881	17.974	ug/l	90
8) Diethyl Ether	3.959	74	24195	19.513	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.371	101	40512	18.288	ug/l	97
10) Methyl Iodide	4.589	142	50184	18.378	ug/l	97
11) Tert butyl alcohol	5.518	59	26820	91.833	ug/l #	92
12) 1,1-Dichloroethene	4.336	96	37035	18.439	ug/l	98
13) Acrolein	4.177	56	35598	82.195	ug/l	99
14) Allyl chloride	5.030	41	50406	19.114	ug/l	94
15) Acrylonitrile	5.718	53	96295	101.423	ug/l	97
16) Acetone	4.424	43	67637	90.021	ug/l	88
17) Carbon Disulfide	4.718	76	117279	19.702	ug/l	97
18) Methyl Acetate	5.030	43	42724	16.532	ug/l	96
19) Methyl tert-butyl Ether	5.795	73	117363	19.664	ug/l	99
20) Methylene Chloride	5.283	84	44771	18.529	ug/l	97
21) trans-1,2-Dichloroethene	5.789	96	39722	18.367	ug/l	90
22) Diisopropyl ether	6.671	45	122278	20.521	ug/l	98
23) Vinyl Acetate	6.600	43	432905m	106.106	ug/l	
24) 1,1-Dichloroethane	6.565	63	75247	18.576	ug/l	99
25) 2-Butanone	7.483	43	110910	100.337	ug/l	100
26) 2,2-Dichloropropane	7.483	77	64399	17.879	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	45332	18.077	ug/l	96
28) Bromochloromethane	7.812	49	37915	22.774	ug/l	93
29) Tetrahydrofuran	7.841	42	73328	102.731	ug/l	99
30) Chloroform	7.965	83	77346	18.272	ug/l	96
31) Cyclohexane	8.253	56	64840	19.118	ug/l	92
32) 1,1,1-Trichloroethane	8.171	97	69020	18.331	ug/l	97
36) 1,1-Dichloropropene	8.371	75	53538	19.011	ug/l	99
37) Ethyl Acetate	7.559	43	44178	19.063	ug/l	98
38) Carbon Tetrachloride	8.359	117	62407	18.651	ug/l	96
39) Methylcyclohexane	9.600	83	51371	18.568	ug/l	96
40) Benzene	8.606	78	173763	19.252	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085918.D
Acq On : 10 Mar 2025 16:47
Operator : JC\MD
Sample : VN0310WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 11 01:38:45 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 :
VN0310WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	24897	20.096	ug/l		98
42) 1,2-Dichloroethane	8.671	62	55432	18.855	ug/l		100
43) Isopropyl Acetate	8.688	43	84853	20.541	ug/l		97
44) Trichloroethene	9.347	130	38294	17.280	ug/l		98
45) 1,2-Dichloropropane	9.624	63	42131	19.338	ug/l		94
46) Dibromomethane	9.706	93	29316	19.076	ug/l		98
47) Bromodichloromethane	9.882	83	61432	18.685	ug/l		99
48) Methyl methacrylate	9.677	41	33611	19.529	ug/l		97
49) 1,4-Dioxane	9.694	88	13683	418.066	ug/l		97
51) 4-Methyl-2-Pentanone	10.441	43	230578	103.195	ug/l		99
52) Toluene	10.630	92	105004	19.846	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	60104	19.770	ug/l		95
54) cis-1,3-Dichloropropene	10.312	75	65714	19.711	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	38998	18.539	ug/l		96
56) Ethyl methacrylate	10.871	69	55699	20.042	ug/l		98
57) 1,3-Dichloropropane	11.159	76	68287	19.446	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	121081	119.643	ug/l		100
59) 2-Hexanone	11.194	43	158456	103.085	ug/l		99
60) Dibromochloromethane	11.359	129	46769	19.093	ug/l		99
61) 1,2-Dibromoethane	11.465	107	38641	19.441	ug/l		97
64) Tetrachloroethene	11.100	164	38276	18.499	ug/l		95
65) Chlorobenzene	11.888	112	110875	18.122	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	40601	18.462	ug/l		98
67) Ethyl Benzene	11.965	91	180891	18.874	ug/l		100
68) m/p-Xylenes	12.071	106	141229	38.793	ug/l		100
69) o-Xylene	12.394	106	65603	18.963	ug/l		97
70) Styrene	12.412	104	109997	18.542	ug/l		98
71) Bromoform	12.576	173	31071	19.014	ug/l	#	97
73) Isopropylbenzene	12.694	105	159608	17.836	ug/l		98
74) N-amyl acetate	12.494	43	61330	19.435	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	55549	18.039	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	46455m	16.011	ug/l		
77) Bromobenzene	12.976	156	42892	17.741	ug/l		92
78) n-propylbenzene	13.035	91	192527	18.786	ug/l		99
79) 2-Chlorotoluene	13.123	91	125420	18.316	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	139100	19.082	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	18124m	18.225	ug/l		
82) 4-Chlorotoluene	13.218	91	127707	18.813	ug/l		99
83) tert-Butylbenzene	13.435	119	108226	17.655	ug/l		94
84) 1,2,4-Trimethylbenzene	13.482	105	139106	19.288	ug/l		97
85) sec-Butylbenzene	13.612	105	157266	18.158	ug/l		99
86) p-Isopropyltoluene	13.729	119	127223	17.321	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	79599	17.573	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	78503	16.910	ug/l		97
89) n-Butylbenzene	14.053	91	104614	17.013	ug/l		97
90) Hexachloroethane	14.335	117	27755	16.921	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	75492	17.332	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.723	75	10101	17.863	ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	34346	16.548	ug/l		97
94) Hexachlorobutadiene	15.500	225	19667	15.591	ug/l		98
95) Naphthalene	15.641	128	94244	16.539	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	35969	17.262	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085918.D
Acq On : 10 Mar 2025 16:47
Operator : JC\MD
Sample : VN0310WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 11 01:38:45 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 :
VN0310WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

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

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

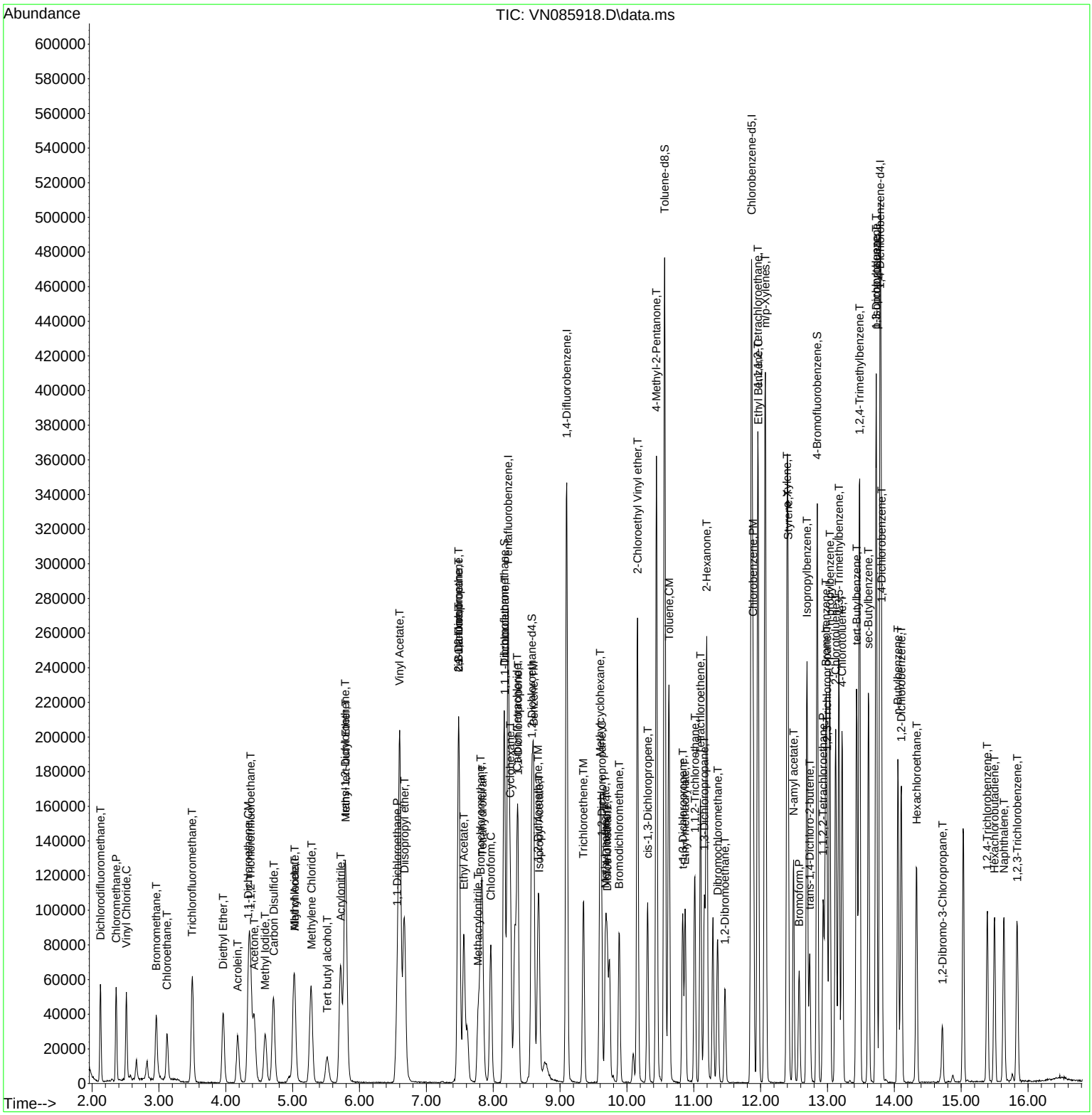
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031025\
Data File : VN085918.D
Acq On : 10 Mar 2025 16:47
Operator : JC\MD
Sample : VN0310WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 11 01:38:45 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 :
VN0310WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021477.D
Acq On : 11 Mar 2025 11:26
Operator : SY/MD
Sample : VY0311SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 01:23:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	205814	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	320893	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	289092	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	150821	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	118276	54.372	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.740%			
35) Dibromofluoromethane	7.634	113	111808	53.008	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.020%			
50) Toluene-d8	10.103	98	416806	52.190	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.380%			
62) 4-Bromofluorobenzene	12.407	95	143228	52.722	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 105.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	38513	20.391	ug/l	95
3) Chloromethane	2.068	50	57571	21.621	ug/l	96
4) Vinyl Chloride	2.202	62	67448	23.179	ug/l	96
5) Bromomethane	2.586	94	45581	21.673	ug/l	95
6) Chloroethane	2.726	64	44919	23.359	ug/l	98
7) Trichlorofluoromethane	3.049	101	90844	22.367	ug/l	97
8) Diethyl Ether	3.452	74	24779	22.015	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.811	101	49556	21.370	ug/l	99
10) Methyl Iodide	4.000	142	51867	22.004	ug/l	98
11) Tert butyl alcohol	4.854	59	17440	110.757	ug/l	100
12) 1,1-Dichloroethene	3.781	96	45043	21.305	ug/l	93
13) Acrolein	3.653	56	16689	150.833	ug/l	90
14) Allyl chloride	4.378	41	70483	20.630	ug/l	100
15) Acrylonitrile	5.055	53	54531	113.809	ug/l	97
16) Acetone	3.860	43	62206	131.109	ug/l	99
17) Carbon Disulfide	4.104	76	133379	20.131	ug/l	100
18) Methyl Acetate	4.378	43	25971	24.670	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	114604	21.387	ug/l	100
20) Methylene Chloride	4.610	84	52722	21.169	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	47703	20.148	ug/l	98
22) Diisopropyl ether	6.012	45	157492	21.390	ug/l	98
23) Vinyl Acetate	5.957	43	447652	106.530	ug/l	100
24) 1,1-Dichloroethane	5.909	63	91448	21.044	ug/l	99
25) 2-Butanone	6.896	43	78877	120.181	ug/l	100
26) 2,2-Dichloropropane	6.878	77	82324	20.589	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	56260	20.916	ug/l	98
28) Bromochloromethane	7.238	49	39935	21.920	ug/l	99
29) Tetrahydrofuran	7.256	42	45199	111.553	ug/l	99
30) Chloroform	7.414	83	97353	21.574	ug/l	92
31) Cyclohexane	7.695	56	78605	19.294	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	86126	20.845	ug/l	99
36) 1,1-Dichloropropene	7.835	75	67500	20.444	ug/l	99
37) Ethyl Acetate	6.988	43	31780	21.778	ug/l	99
38) Carbon Tetrachloride	7.817	117	78099	20.568	ug/l	97
39) Methylcyclohexane	9.103	83	79572	19.648	ug/l	99
40) Benzene	8.079	78	203249	20.897	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021477.D
Acq On : 11 Mar 2025 11:26
Operator : SY/MD
Sample : VY0311SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 01:23:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/12/2025
Supervised By :Mahesh Dadoda 03/12/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	17550	22.087	ug/l		97
42) 1,2-Dichloroethane	8.158	62	59353	21.814	ug/l		100
43) Isopropyl Acetate	8.195	43	58991	20.824	ug/l	#	89
44) Trichloroethene	8.865	130	51146	20.810	ug/l		97
45) 1,2-Dichloropropane	9.140	63	50348	21.750	ug/l		95
46) Dibromomethane	9.231	93	28214	21.906	ug/l		100
47) Bromodichloromethane	9.420	83	71979	21.044	ug/l		96
48) Methyl methacrylate	9.219	41	27850	21.409	ug/l		99
49) 1,4-Dioxane	9.225	88	5956	471.132	ug/l	#	94
51) 4-Methyl-2-Pentanone	9.999	43	161289	110.346	ug/l		100
52) Toluene	10.170	92	128907	21.023	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	64650	21.454	ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	75356	21.062	ug/l		97
55) 1,1,2-Trichloroethane	10.572	97	36516	21.674	ug/l		98
56) Ethyl methacrylate	10.438	69	45607	21.225	ug/l		99
57) 1,3-Dichloropropane	10.719	76	62886	21.536	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	113643	114.571	ug/l		99
59) 2-Hexanone	10.761	43	113250	117.176	ug/l		98
60) Dibromochloromethane	10.908	129	50383	21.813	ug/l		99
61) 1,2-Dibromoethane	11.011	107	34516	21.707	ug/l		100
64) Tetrachloroethene	10.646	164	51084	21.731	ug/l		96
65) Chlorobenzene	11.438	112	139893	20.492	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.511	131	50679	20.997	ug/l		98
67) Ethyl Benzene	11.517	91	238455	19.900	ug/l		99
68) m/p-Xylenes	11.627	106	184445	40.545	ug/l		100
69) o-Xylene	11.956	106	84386	20.127	ug/l		99
70) Styrene	11.968	104	142938	20.551	ug/l		99
71) Bromoform	12.127	173	28730	21.294	ug/l		97
73) Isopropylbenzene	12.255	105	227543	19.152	ug/l		99
74) N-amyl acetate	12.072	43	50844	19.706	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	42002	20.034	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	30015m	19.749	ug/l		
77) Bromobenzene	12.529	156	55801	20.076	ug/l		97
78) n-propylbenzene	12.596	91	280689	19.454	ug/l		99
79) 2-Chlorotoluene	12.682	91	161689	19.598	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	192316	19.919	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	12478	18.665	ug/l		98
82) 4-Chlorotoluene	12.779	91	168922	19.773	ug/l		100
83) tert-Butylbenzene	12.999	119	168838	19.603	ug/l		99
84) 1,2,4-Trimethylbenzene	13.041	105	190067	19.827	ug/l		99
85) sec-Butylbenzene	13.176	105	250973	19.584	ug/l		99
86) p-Isopropyltoluene	13.291	119	206101	19.522	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	111249	20.108	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	110455	20.414	ug/l		99
89) n-Butylbenzene	13.615	91	193943	19.894	ug/l		100
90) Hexachloroethane	13.883	117	43777	19.437	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	97785	20.621	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	6592	20.990	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	54419	21.011	ug/l		98
94) Hexachlorobutadiene	15.023	225	35066	21.598	ug/l		99
95) Naphthalene	15.145	128	84955	21.408	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	46133	21.178	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021477.D
Acq On : 11 Mar 2025 11:26
Operator : SY/MD
Sample : VY0311SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 01:23:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 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

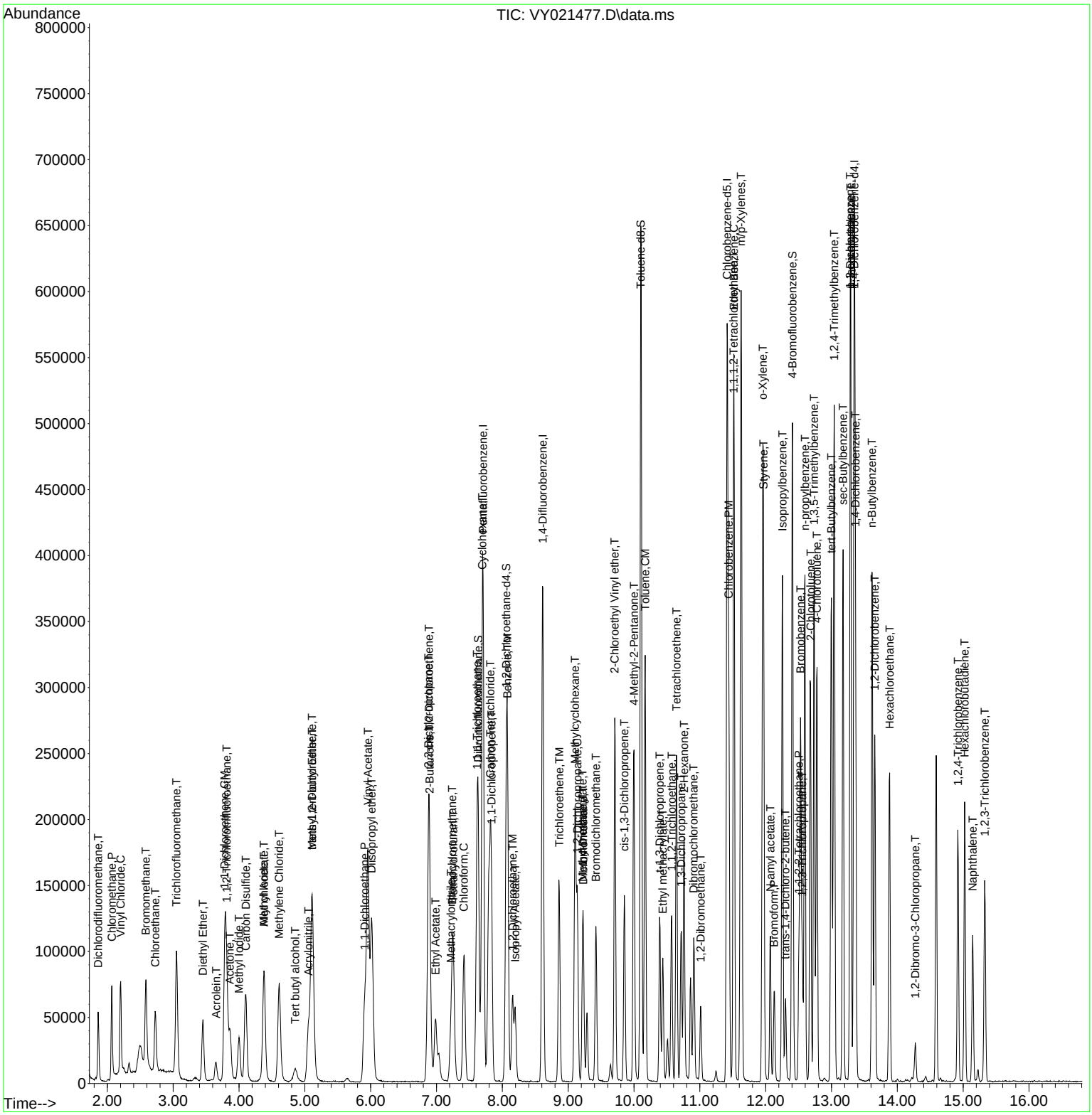
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
Data File : VY021477.D
Acq On : 11 Mar 2025 11:26
Operator : SY/MD
Sample : VY0311SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 01:23:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0311SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 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

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
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

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

Manual Integration Report

Sequence:	VN031025	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085914.D	1,2,3-Trichloropropane	JOHN	3/11/2025 9:51:26 AM	MMDadoda	3/11/2025 3:09:17 PM	Peak Integrated by Software
VSTDCCC050	VN085914.D	trans-1,4-Dichloro-2-butene	JOHN	3/11/2025 9:51:26 AM	MMDadoda	3/11/2025 3:09:17 PM	Peak Integrated by Software
VN0310WBS01	VN085917.D	1,2,3-Trichloropropane	JOHN	3/11/2025 9:51:33 AM	MMDadoda	3/11/2025 3:08:48 PM	Peak Integrated by Software
VN0310WBS01	VN085917.D	Allyl chloride	JOHN	3/11/2025 9:51:33 AM	MMDadoda	3/11/2025 3:08:48 PM	Peak Integrated by Software
VN0310WBS01	VN085917.D	trans-1,4-Dichloro-2-butene	JOHN	3/11/2025 9:51:33 AM	MMDadoda	3/11/2025 3:08:48 PM	Peak Integrated by Software
VN0310WBSD01	VN085918.D	1,2,3-Trichloropropane	JOHN	3/11/2025 9:51:38 AM	MMDadoda	3/11/2025 3:08:49 PM	Peak Integrated by Software
VN0310WBSD01	VN085918.D	trans-1,4-Dichloro-2-butene	JOHN	3/11/2025 9:51:38 AM	MMDadoda	3/11/2025 3:08:49 PM	Peak Integrated by Software
VN0310WBSD01	VN085918.D	Vinyl Acetate	JOHN	3/11/2025 9:51:38 AM	MMDadoda	3/11/2025 3:08:49 PM	Peak Integrated by Software
VSTDCCC050	VN085926.D	1,2,3-Trichloropropane	JOHN	3/11/2025 9:51:48 AM	MMDadoda	3/11/2025 3:08:52 PM	Peak Integrated by Software

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

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
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

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

Manual Integration Report

Sequence:	VY030425	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC010	VY021397.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:34 PM	SAM	3/6/2025 3:00:08 PM	Peak Integrated by Software
VSTDICC010	VY021397.D	Methacrylonitrile	MMDadoda	3/6/2025 2:55:34 PM	SAM	3/6/2025 3:00:08 PM	Peak Integrated by Software
VSTDICC010	VY021397.D	Tert butyl alcohol	MMDadoda	3/6/2025 2:55:34 PM	SAM	3/6/2025 3:00:08 PM	Peak Integrated by Software
VSTDICC020	VY021398.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:33 PM	SAM	3/6/2025 3:00:07 PM	Peak Integrated by Software
VSTDICC020	VY021398.D	Ethyl Acetate	MMDadoda	3/6/2025 2:55:33 PM	SAM	3/6/2025 3:00:07 PM	Peak Integrated by Software
VSTDICCC050	VY021399.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:35 PM	SAM	3/6/2025 3:00:06 PM	Peak Integrated by Software
VSTDICC100	VY021400.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:49 PM	SAM	3/6/2025 3:00:09 PM	Peak Integrated by Software
VSTDICC150	VY021401.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:42 PM	SAM	3/6/2025 3:00:14 PM	Peak Integrated by Software
VSTDICC005	VY021403.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:43 PM	SAM	3/6/2025 3:00:17 PM	Peak Integrated by Software
VSTDICC005	VY021403.D	Ethyl Acetate	MMDadoda	3/6/2025 2:55:43 PM	SAM	3/6/2025 3:00:17 PM	Peak Integrated by Software
VSTDICV050	VY021404.D	1,2,3-Trichloropropane	MMDadoda	3/6/2025 2:55:47 PM	SAM	3/6/2025 3:00:16 PM	Peak Integrated by Software
VSTDICV050	VY021404.D	Methacrylonitrile	MMDadoda	3/6/2025 2:55:47 PM	SAM	3/6/2025 3:00:16 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY030425	Instrument	MSVOA_y

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:	vy031125	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021474.D	1,2,3-Trichloropropane	Romaben	3/12/2025 2:41:38 PM	MMDadoda	3/12/2025 3:16:21 PM	Peak Integrated by Software
VY0311SBS01	VY021476.D	1,2,3-Trichloropropane	Romaben	3/12/2025 2:41:42 PM	MMDadoda	3/12/2025 3:16:22 PM	Peak Integrated by Software
VY0311SBS01	VY021476.D	Methacrylonitrile	Romaben	3/12/2025 2:41:42 PM	MMDadoda	3/12/2025 3:16:22 PM	Peak Integrated by Software
VY0311SBSD01	VY021477.D	1,2,3-Trichloropropane	Romaben	3/12/2025 2:41:46 PM	MMDadoda	3/12/2025 3:16:23 PM	Peak Integrated by Software
VSTDCCC050	VY021499.D	1,2,3-Trichloropropane	Romaben	3/12/2025 2:42:03 PM	MMDadoda	3/12/2025 3:16:30 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # 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

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 # VN031025

Review By	John Carlone	Review On	3/11/2025 9:56:40 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/11/2025 3:08:56 PM		
SubDirectory	VN031025	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133238
Initial Calibration Stds	
CCC	VP133239,VP133240
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085913.D	10 Mar 2025 10:54	JC\MD	Ok
2	VSTDCCC050	VN085914.D	10 Mar 2025 12:21	JC\MD	Ok,M
3	VN0310MBL01	VN085915.D	10 Mar 2025 12:58	JC\MD	Ok
4	VN0310WBL01	VN085916.D	10 Mar 2025 13:22	JC\MD	Ok
5	VN0310WBS01	VN085917.D	10 Mar 2025 16:12	JC\MD	Ok,M
6	VN0310WBSD01	VN085918.D	10 Mar 2025 16:47	JC\MD	Ok,M
7	Q1514-07	VN085919.D	10 Mar 2025 17:11	JC\MD	Ok
8	Q1514-08	VN085920.D	10 Mar 2025 17:35	JC\MD	Ok
9	Q1514-09	VN085921.D	10 Mar 2025 17:59	JC\MD	ReRun
10	Q1514-10	VN085922.D	10 Mar 2025 18:23	JC\MD	Ok
11	Q1516-03	VN085923.D	10 Mar 2025 18:47	JC\MD	Ok
12	Q1525-01	VN085924.D	10 Mar 2025 19:12	JC\MD	Not Ok
13	Q1522-02	VN085925.D	10 Mar 2025 19:35	JC\MD	Ok
14	VSTDCCC050	VN085926.D	10 Mar 2025 19:59	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 # 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

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 # 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

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY030425

Review By	Mahesh Dadoda	Review On	3/5/2025 12:14:39 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	3/5/2025 12:18:08 PM				
SubDirectory	VY030425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133216
Initial Calibration Stds	VP133207,VP133208,VP133209,VP133210,VP133211,VP133212
CCC	VP133214,VP133215
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133213
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021395.D	04 Mar 2025 08:52	SY/MD	Ok
2	VSTDICC005	VY021396.D	04 Mar 2025 09:23	SY/MD	Not Ok
3	VSTDICC010	VY021397.D	04 Mar 2025 09:46	SY/MD	Ok,M
4	VSTDICC020	VY021398.D	04 Mar 2025 10:09	SY/MD	Ok,M
5	VSTDICCC050	VY021399.D	04 Mar 2025 10:30	SY/MD	Ok,M
6	VSTDICC100	VY021400.D	04 Mar 2025 11:06	SY/MD	Ok,M
7	VSTDICC150	VY021401.D	04 Mar 2025 11:29	SY/MD	Ok,M
8	VIBLK	VY021402.D	04 Mar 2025 11:52	SY/MD	Ok
9	VSTDICC005	VY021403.D	04 Mar 2025 12:15	SY/MD	Ok,M
10	VSTDICV050	VY021404.D	04 Mar 2025 13:12	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY031125

Review By	Mahesh Dadoda	Review On	3/12/2025 3:16:35 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	3/12/2025 3:17:58 PM				
SubDirectory	VY031125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133241
Initial Calibration Stds	
CCC	VP133242,VP133243
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021473.D	11 Mar 2025 09:00	SY/MD	Ok
2	VSTDCCC050	VY021474.D	11 Mar 2025 09:42	SY/MD	Ok,M
3	VY0311SBL01	VY021475.D	11 Mar 2025 10:12	SY/MD	Ok
4	VY0311SBS01	VY021476.D	11 Mar 2025 11:03	SY/MD	Ok,M
5	VY0311SBSD01	VY021477.D	11 Mar 2025 11:26	SY/MD	Ok,M
6	Q1463-02	VY021478.D	11 Mar 2025 12:01	SY/MD	Ok,M
7	Q1507-01	VY021479.D	11 Mar 2025 12:24	SY/MD	Not Ok
8	Q1514-05	VY021480.D	11 Mar 2025 12:48	SY/MD	Ok
9	Q1514-03	VY021481.D	11 Mar 2025 13:11	SY/MD	Ok
10	Q1514-01	VY021482.D	11 Mar 2025 13:35	SY/MD	Ok
11	Q1515-02	VY021483.D	11 Mar 2025 13:58	SY/MD	Not Ok
12	Q1508-01RE	VY021484.D	11 Mar 2025 14:21	SY/MD	Confirms
13	Q1535-01	VY021485.D	11 Mar 2025 14:45	SY/MD	Not Ok
14	Q1524-01	VY021486.D	11 Mar 2025 15:08	SY/MD	ReRun
15	Q1524-02	VY021487.D	11 Mar 2025 15:32	SY/MD	ReRun
16	Q1494-05	VY021488.D	11 Mar 2025 15:55	SY/MD	Not Ok
17	Q1524-01RE	VY021489.D	11 Mar 2025 16:18	SY/MD	Confirms
18	Q1524-02RE	VY021490.D	11 Mar 2025 16:42	SY/MD	Confirms
19	Q1494-03	VY021491.D	11 Mar 2025 17:05	SY/MD	Not Ok
20	Q1494-07	VY021492.D	11 Mar 2025 17:29	SY/MD	Not Ok
21	Q1508-01	VY021493.D	11 Mar 2025 17:52	SY/MD	Not Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY031125

Review By	Mahesh Dadoda	Review On	3/12/2025 3:16:35 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	3/12/2025 3:17:58 PM				
SubDirectory	VY031125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133241
Initial Calibration Stds	
CCC	VP133242,VP133243
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1534-02	VY021494.D	11 Mar 2025 18:16	SY/MD	Ok
23	Q1534-08	VY021495.D	11 Mar 2025 18:39	SY/MD	Ok
24	Q1534-14	VY021496.D	11 Mar 2025 19:02	SY/MD	Ok
25	Q1534-20	VY021497.D	11 Mar 2025 19:26	SY/MD	Ok
26	VY0311SBS02	VY021498.D	11 Mar 2025 19:49	SY/MD	Not Ok
27	VSTDCCC050	VY021499.D	11 Mar 2025 20:11	SY/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 # 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

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 # VN031025

Review By	John Carlone	Review On	3/11/2025 9:56:40 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/11/2025 3:08:56 PM		
SubDirectory	VN031025	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133238
Initial Calibration Stds	
CCC	VP133239,VP133240
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	VN085913.D	10 Mar 2025 10:54		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085914.D	10 Mar 2025 12:21	CCAL failed high for comp. #68,69	JC\MD	Ok,M
3	VN0310MBL01	VN0310MBL01	VN085915.D	10 Mar 2025 12:58		JC\MD	Ok
4	VN0310WBL01	VN0310WBL01	VN085916.D	10 Mar 2025 13:22		JC\MD	Ok
5	VN0310WBS01	VN0310WBS01	VN085917.D	10 Mar 2025 16:12	BS failed high for comp. #68	JC\MD	Ok,M
6	VN0310WBSD01	VN0310WBSD01	VN085918.D	10 Mar 2025 16:47		JC\MD	Ok,M
7	Q1514-07	ENV-105-GW01	VN085919.D	10 Mar 2025 17:11	vial A pH<2	JC\MD	Ok
8	Q1514-08	ENV-103-GW01	VN085920.D	10 Mar 2025 17:35	vial A pH<2	JC\MD	Ok
9	Q1514-09	FB03062025	VN085921.D	10 Mar 2025 17:59	vial A pH<2 FB;Hit of comp.#16	JC\MD	ReRun
10	Q1514-10	TB03062025	VN085922.D	10 Mar 2025 18:23	vial A pH<2 TB	JC\MD	Ok
11	Q1516-03	GAS-AUD-25-0026	VN085923.D	10 Mar 2025 18:47	vial A pH<2	JC\MD	Ok
12	Q1525-01	MW10	VN085924.D	10 Mar 2025 19:12	vial A pH<2 RT shifted; CCAL failed high for comp. #68,69;	JC\MD	Not Ok
13	Q1522-02	TW-WTS-04	VN085925.D	10 Mar 2025 19:35	vial A pH<2	JC\MD	Ok
14	VSTDCCC050	VSTDCCC050EC	VN085926.D	10 Mar 2025 19:59		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 # 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

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 # 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

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY030425

Review By	Mahesh Dadoda	Review On	3/5/2025 12:14:39 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/5/2025 12:18:08 PM		
SubDirectory	VY030425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133216
Initial Calibration Stds	VP133207,VP133208,VP133209,VP133210,VP133211,VP133212
CCC	VP133214,VP133215
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133213
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021395.D	04 Mar 2025 08:52		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021396.D	04 Mar 2025 09:23	not used	SY/MD	Not Ok
3	VSTDICC010	VSTDICC010	VY021397.D	04 Mar 2025 09:46		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021398.D	04 Mar 2025 10:09	Comp.#11 is on Linear Regression	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021399.D	04 Mar 2025 10:30	Comp.#95 is on Quadratic Regression	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021400.D	04 Mar 2025 11:06		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY021401.D	04 Mar 2025 11:29	Method fail for comp.#13	SY/MD	Ok,M
8	VIBLK	VIBLK	VY021402.D	04 Mar 2025 11:52		SY/MD	Ok
9	VSTDICC005	VSTDICC005	VY021403.D	04 Mar 2025 12:15		SY/MD	Ok,M
10	VSTDICV050	ICVVY030425	VY021404.D	04 Mar 2025 13:12		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY031125

Review By	Mahesh Dadoda	Review On	3/12/2025 3:16:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/12/2025 3:17:58 PM		
SubDirectory	VY031125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133241
Initial Calibration Stds	
CCC	VP133242,VP133243
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021473.D	11 Mar 2025 09:00		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021474.D	11 Mar 2025 09:42		SY/MD	Ok,M
3	VY0311SBL01	VY0311SBL01	VY021475.D	11 Mar 2025 10:12		SY/MD	Ok
4	VY0311SBS01	VY0311SBS01	VY021476.D	11 Mar 2025 11:03		SY/MD	Ok,M
5	VY0311SBSD01	VY0311SBSD01	VY021477.D	11 Mar 2025 11:26		SY/MD	Ok,M
6	Q1463-02	T2	VY021478.D	11 Mar 2025 12:01	Vial-B	SY/MD	Ok,M
7	Q1507-01	50-MIDDLESEX-AVE	VY021479.D	11 Mar 2025 12:24	Vial-B Not purge	SY/MD	Not Ok
8	Q1514-05	ENV-103-SB01	VY021480.D	11 Mar 2025 12:48	Vial-B	SY/MD	Ok
9	Q1514-03	ENV-105-SB02	VY021481.D	11 Mar 2025 13:11	Vial-B	SY/MD	Ok
10	Q1514-01	ENV-105-SB01	VY021482.D	11 Mar 2025 13:35	Vial-B	SY/MD	Ok
11	Q1515-02	AU-06-030625-E2	VY021483.D	11 Mar 2025 13:58	Vial-B Not purge	SY/MD	Not Ok
12	Q1508-01RE	RBR251372RE	VY021484.D	11 Mar 2025 14:21	Vial-B Internal Standard Fail; Surrogate Fail	SY/MD	Confirms
13	Q1535-01	SU-03-03102025	VY021485.D	11 Mar 2025 14:45	Vial-A Not purge	SY/MD	Not Ok
14	Q1524-01	72-11930-343-COMP	VY021486.D	11 Mar 2025 15:08	Vial-A ISTD Fail	SY/MD	ReRun
15	Q1524-02	VNJ-241	VY021487.D	11 Mar 2025 15:32	Vial-A ISTD Fail	SY/MD	ReRun
16	Q1494-05	SOIL	VY021488.D	11 Mar 2025 15:55	Vial-B Not purge	SY/MD	Not Ok
17	Q1524-01RE	72-11930-343-COMPRI	VY021489.D	11 Mar 2025 16:18	Vial-B ISTD Fail	SY/MD	Confirms

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY031125

Review By	Mahesh Dadoda	Review On	3/12/2025 3:16:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/12/2025 3:17:58 PM		
SubDirectory	VY031125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y030425s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133241
Initial Calibration Stds	
CCC	VP133242,VP133243
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1524-02RE	VNJ-241RE	VY021490.D	11 Mar 2025 16:42	Vial-B ISTD Fail	SY/MD	Confirms
19	Q1494-03	ASPHALT-SOIL	VY021491.D	11 Mar 2025 17:05	Vial-B Not purge	SY/MD	Not Ok
20	Q1494-07	SOIL-COMP	VY021492.D	11 Mar 2025 17:29	Vial-B Not purge	SY/MD	Not Ok
21	Q1508-01	RBR251372	VY021493.D	11 Mar 2025 17:52	Not purge	SY/MD	Not Ok
22	Q1534-02	OR-363-VOC-16	VY021494.D	11 Mar 2025 18:16	Vial-A	SY/MD	Ok
23	Q1534-08	OR-363-VOC-17	VY021495.D	11 Mar 2025 18:39	Vial-A	SY/MD	Ok
24	Q1534-14	OR-363-VOC-18	VY021496.D	11 Mar 2025 19:02	Vial-A	SY/MD	Ok
25	Q1534-20	OR-363-VOC-19	VY021497.D	11 Mar 2025 19:26	Vial-A	SY/MD	Ok
26	VY0311SBS02	VY0311SBS02	VY021498.D	11 Mar 2025 19:49	Not Required	SY/MD	Not Ok
27	VSTDCCC050	VSTDCCC050EC	VY021499.D	11 Mar 2025 20:11		SY/MD	Ok,M

M : Manual Integration

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

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
Q1514-01	**ENV-105-SB01**	**SOIL**			**03/05/25**			**03/06/25**
			VOC-TCLVOA-10	8260D			03/11/25	
Q1514-02	**ENV-105-SB01**	**TCLP**			**03/05/25**			**03/06/25**
			TCLP VOA	8260D			03/11/25	
Q1514-03	**ENV-105-SB02**	**SOIL**			**03/05/25**			**03/06/25**
			VOC-TCLVOA-10	8260D			03/11/25	
Q1514-04	**ENV-105-SB02**	**TCLP**			**03/05/25**			**03/06/25**
			TCLP VOA	8260D			03/11/25	
Q1514-05	**ENV-103-SB01**	**SOIL**			**03/05/25**			**03/06/25**
			VOC-TCLVOA-10	8260D			03/11/25	
Q1514-06	**ENV-103-SB01**	**TCLP**			**03/05/25**			**03/06/25**
			TCLP VOA	8260D			03/11/25	
Q1514-07	**ENV-105-GW01**	**Water**			**03/05/25**			**03/06/25**
			VOC-TCLVOA-10	8260-Low			03/10/25	
Q1514-08	**ENV-103-GW01**	**Water**			**03/05/25**			**03/06/25**
			VOC-TCLVOA-10	8260-Low			03/10/25	
Q1514-09	**FB03062025**	**Water**			**03/06/25**			**03/06/25**
			VOC-TCLVOA-10	8260-Low			03/11/25	
Q1514-10	**TB03062025**	**Water**			**03/06/25**			**03/06/25**
			VOC-TCLVOA-10	8260-Low			03/10/25	