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

Hit Summary Sheet
SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**WB-307-SB01**							
P4718-01	WB-307-SB01	SOIL	Acetone	7.50	J	5.40	21.5	ug/Kg
P4718-01	WB-307-SB01	SOIL	Carbon Disulfide	3.50	J	1.10	4.30	ug/Kg
P4718-01	WB-307-SB01	SOIL	Methylene Chloride	4.30	J	2.90	8.60	ug/Kg
			Total Voc :	15.3				
			Total Concentration:	15.3				
Client ID:	**WB-307-SB02**							
P4718-02	WB-307-SB02	SOIL	Acetone	5.90	J	5.10	20.2	ug/Kg
P4718-02	WB-307-SB02	SOIL	Methylene Chloride	3.80	J	2.80	8.10	ug/Kg
			Total Voc :	9.70				
			Total Concentration:	9.70				

SAMPLE DATA

Raw Data: **VY020233.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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78
Sample Wt/Vol:	7.46 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
VY020233.D	1		11/08/24 15:12	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.30	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.66	U	0.66	4.30	ug/Kg
74-83-9	Bromomethane	0.89	U	0.89	4.30	ug/Kg
75-00-3	Chloroethane	0.87	U	0.87	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	0.78	U	0.78	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.92	U	0.92	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.67	U	0.67	4.30	ug/Kg
67-64-1	Acetone	7.50	J	5.40	21.5	ug/Kg
75-15-0	Carbon Disulfide	3.50	J	1.10	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.30	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.30	ug/Kg
75-09-2	Methylene Chloride	4.30	J	2.90	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.72	U	0.72	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.54	U	0.54	4.30	ug/Kg
110-82-7	Cyclohexane	0.59	U	0.59	4.30	ug/Kg
78-93-3	2-Butanone	4.90	U	4.90	21.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.75	U	0.75	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.52	U	0.52	4.30	ug/Kg
74-97-5	Bromochloromethane	2.10	U	2.10	4.30	ug/Kg
67-66-3	Chloroform	0.58	U	0.58	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.67	U	0.67	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.30	ug/Kg
71-43-2	Benzene	0.62	U	0.62	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.52	U	0.52	4.30	ug/Kg
79-01-6	Trichloroethene	0.64	U	0.64	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.57	U	0.57	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.48	U	0.48	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.70	U	3.70	21.5	ug/Kg
108-88-3	Toluene	0.58	U	0.58	4.30	ug/Kg

Raw Data: **VY020233.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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78
Sample Wt/Vol:	7.46 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
VY020233.D	1		11/08/24 15:12	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.72	U	0.72	4.30	ug/Kg
591-78-6	2-Hexanone	4.10	U	4.10	21.5	ug/Kg
124-48-1	Dibromochloromethane	0.56	U	0.56	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.68	U	0.68	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.76	U	0.76	4.30	ug/Kg
108-90-7	Chlorobenzene	0.64	U	0.64	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.53	U	0.53	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	8.60	ug/Kg
95-47-6	o-Xylene	0.60	U	0.60	4.30	ug/Kg
100-42-5	Styrene	0.52	U	0.52	4.30	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.58	U	0.58	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.95	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.64	U	0.64	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.69	U	0.69	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.51	U	0.51	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.68	U	0.68	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.67	U	0.67	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.7		70 (50) - 130 (163)	121%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	49.3		70 (58) - 130 (134)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		70 (29) - 130 (146)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	415000	8.615			
3114-55-4	Chlorobenzene-d5	375000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	128000	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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78
Sample Wt/Vol:	7.46 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
VY020233.D	1		11/08/24 15:12	VY110824

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: **VY020234.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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	77.6
Sample Wt/Vol:	7.96 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
VY020234.D	1		11/08/24 15:35	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	4.00	ug/Kg
74-87-3	Chloromethane	0.94	U	0.94	4.00	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	4.00	ug/Kg
74-83-9	Bromomethane	0.83	U	0.83	4.00	ug/Kg
75-00-3	Chloroethane	0.82	U	0.82	4.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.74	U	0.74	4.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.63	U	0.63	4.00	ug/Kg
67-64-1	Acetone	5.90	J	5.10	20.2	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.54	U	0.54	4.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.00	ug/Kg
75-09-2	Methylene Chloride	3.80	J	2.80	8.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.51	U	0.51	4.00	ug/Kg
110-82-7	Cyclohexane	0.56	U	0.56	4.00	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	20.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.70	U	0.70	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.49	U	0.49	4.00	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.00	ug/Kg
67-66-3	Chloroform	0.54	U	0.54	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	4.00	ug/Kg
108-87-2	Methylcyclohexane	0.70	U	0.70	4.00	ug/Kg
71-43-2	Benzene	0.58	U	0.58	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.49	U	0.49	4.00	ug/Kg
79-01-6	Trichloroethene	0.61	U	0.61	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.53	U	0.53	4.00	ug/Kg
75-27-4	Bromodichloromethane	0.45	U	0.45	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	20.2	ug/Kg
108-88-3	Toluene	0.54	U	0.54	4.00	ug/Kg

Raw Data: **VY020234.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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	77.6
Sample Wt/Vol:	7.96 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
VY020234.D	1		11/08/24 15:35	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.49	U	0.49	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.46	U	0.46	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	4.00	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	20.2	ug/Kg
124-48-1	Dibromochloromethane	0.53	U	0.53	4.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.64	U	0.64	4.00	ug/Kg
127-18-4	Tetrachloroethene	0.72	U	0.72	4.00	ug/Kg
108-90-7	Chlorobenzene	0.60	U	0.60	4.00	ug/Kg
100-41-4	Ethyl Benzene	0.50	U	0.50	4.00	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.10	ug/Kg
95-47-6	o-Xylene	0.57	U	0.57	4.00	ug/Kg
100-42-5	Styrene	0.49	U	0.49	4.00	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	4.00	ug/Kg
98-82-8	Isopropylbenzene	0.54	U	0.54	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.89	U	0.89	4.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.60	U	0.60	4.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.65	U	0.65	4.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.48	U	0.48	4.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.64	U	0.64	4.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.63	U	0.63	4.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	63.1		70 (50) - 130 (163)	126%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (54) - 130 (147)	104%	SPK: 50
2037-26-5	Toluene-d8	49.0		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		70 (29) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	428000	8.615			
3114-55-4	Chlorobenzene-d5	399000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	136000	13.346			

Raw Data: **VY020234.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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	77.6
Sample Wt/Vol:	7.96 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
VY020234.D	1		11/08/24 15:35	VY110824

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: **VN084853.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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	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
VN084853.D	1		11/14/24 15:47	VN111424

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: **VN084853.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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	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
VN084853.D	1		11/14/24 15:47	VN111424

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	47.8		70 (74) - 130 (125)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	46.2		70 (86) - 130 (113)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		70 (77) - 130 (121)	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	204000	8.218			
540-36-3	1,4-Difluorobenzene	345000	9.094			
3114-55-4	Chlorobenzene-d5	300000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	136000	13.788			

Raw Data: **VN084853.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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	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
VN084853.D	1		11/14/24 15:47	VN111424

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: **VN084851.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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	TB-11042024	SDG No.:	P4718
Lab Sample ID:	P4718-05	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
VN084851.D	1		11/14/24 14:59	VN111424

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: **VN084851.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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	TB-11042024	SDG No.:	P4718
Lab Sample ID:	P4718-05	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
VN084851.D	1		11/14/24 14:59	VN111424

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	48.2		70 (74) - 130 (125)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		70 (75) - 130 (124)	94%	SPK: 50
2037-26-5	Toluene-d8	46.0		70 (86) - 130 (113)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	193000	8.218			
540-36-3	1,4-Difluorobenzene	336000	9.1			
3114-55-4	Chlorobenzene-d5	289000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	137000	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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	TB-11042024	SDG No.:	P4718
Lab Sample ID:	P4718-05	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
VN084851.D	1		11/14/24 14:59	VN111424

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.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4718-01	WB-307-SB01	1,2-Dichloroethane-d4	50	60.7	121	70 (50)	130 (163)
		Dibromofluoromethane	50	52.3	105	70 (54)	130 (147)
		Toluene-d8	50	49.3	99	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.0	94	70 (29)	130 (146)
P4718-02	WB-307-SB02	1,2-Dichloroethane-d4	50	63.1	126	70 (50)	130 (163)
		Dibromofluoromethane	50	51.8	104	70 (54)	130 (147)
		Toluene-d8	50	49.0	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.5	95	70 (29)	130 (146)
VY1108SBL01	VY1108SBL01	1,2-Dichloroethane-d4	50	55.5	111	70 (50)	130 (163)
		Dibromofluoromethane	50	50.6	101	70 (54)	130 (147)
		Toluene-d8	50	48.3	97	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.7	89	70 (29)	130 (146)
VY1108SBS01	VY1108SBS01	1,2-Dichloroethane-d4	50	50.8	102	70 (50)	130 (163)
		Dibromofluoromethane	50	49.9	100	70 (54)	130 (147)
		Toluene-d8	50	49.1	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.0	100	70 (29)	130 (146)
VY1108SBSD01	VY1108SBSD01	1,2-Dichloroethane-d4	50	57.8	116	70 (50)	130 (163)
		Dibromofluoromethane	50	55.4	111	70 (54)	130 (147)
		Toluene-d8	50	54.3	109	70 (58)	130 (134)
		4-Bromofluorobenzene	50	55.5	111	70 (29)	130 (146)

( ) = LABORATORY INHOUSE LIMIT

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

Surrogate Summary

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4718-04	WB-307-SW	1,2-Dichloroethane-d4	50	47.8	96	70 (74)	130 (125)
		Dibromofluoromethane	50	48.1	96	70 (75)	130 (124)
		Toluene-d8	50	46.2	92	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.2	92	70 (77)	130 (121)
P4718-05	TB-11042024	1,2-Dichloroethane-d4	50	48.2	96	70 (74)	130 (125)
		Dibromofluoromethane	50	47.2	94	70 (75)	130 (124)
		Toluene-d8	50	46.0	92	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.1	94	70 (77)	130 (121)
VN1114WBL01	VN1114WBL01	1,2-Dichloroethane-d4	50	51.0	102	70 (74)	130 (125)
		Dibromofluoromethane	50	52.0	104	70 (75)	130 (124)
		Toluene-d8	50	46.3	93	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.0	94	70 (77)	130 (121)
VN1114WBS02	VN1114WBS02	1,2-Dichloroethane-d4	50	46.6	93	70 (74)	130 (125)
		Dibromofluoromethane	50	50.8	102	70 (75)	130 (124)
		Toluene-d8	50	49.0	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.6	99	70 (77)	130 (121)
VN1114WBSD0	VN1114WBSD02	1,2-Dichloroethane-d4	50	49.6	99	70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	102	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.4	103	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.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084846.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1114WBS02	Dichlorodifluoromethane	20	19.4	ug/L	97			40 (69)	160 (116)	
	Chloromethane	20	16.3	ug/L	81			40 (65)	160 (116)	
	Vinyl chloride	20	21.6	ug/L	108			70 (65)	130 (117)	
	Bromomethane	20	20.5	ug/L	103			40 (58)	160 (125)	
	Chloroethane	20	21.5	ug/L	108			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.9	ug/L	100			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	20.7	ug/L	104			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.8	ug/L	94			70 (74)	130 (110)	
	Acetone	100	100	ug/L	100			40 (60)	160 (125)	
	Carbon disulfide	20	17.3	ug/L	86			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	20.4	ug/L	102			70 (78)	130 (114)	
	Methyl Acetate	20	15.1	ug/L	76			70 (67)	130 (125)	
	Methylene Chloride	20	19.1	ug/L	96			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	19.0	ug/L	95			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.2	ug/L	101			70 (78)	130 (112)	
	Cyclohexane	20	19.1	ug/L	96			70 (75)	130 (110)	
	2-Butanone	100	98.4	ug/L	98			40 (65)	160 (122)	
	Carbon Tetrachloride	20	22.2	ug/L	111			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.9	ug/L	100			70 (77)	130 (110)	
	Bromochloromethane	20	20.5	ug/L	103			70 (70)	130 (124)	
	Chloroform	20	20.2	ug/L	101			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	20.6	ug/L	103			70 (80)	130 (108)	
	Methylcyclohexane	20	22.5	ug/L	113			70 (72)	130 (115)	
	Benzene	20	20.6	ug/L	103			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.7	ug/L	104			70 (80)	130 (115)	
	Trichloroethene	20	21.2	ug/L	106			70 (77)	130 (113)	
	1,2-Dichloropropane	20	21.0	ug/L	105			70 (83)	130 (111)	
	Bromodichloromethane	20	20.5	ug/L	103			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	100	ug/L	100			40 (74)	160 (118)	
	Toluene	20	21.6	ug/L	108			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	20.5	ug/L	103			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.9	ug/L	104			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	21.6	ug/L	108			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	21.6	ug/L	108			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.1	ug/L	106			70 (81)	130 (110)	
	Tetrachloroethene	20	22.2	ug/L	111			70 (67)	130 (123)	
	Chlorobenzene	20	21.1	ug/L	106			70 (82)	130 (109)	
	Ethyl Benzene	20	21.4	ug/L	107			70 (83)	130 (109)	
	m/p-Xylenes	40	43.2	ug/L	108			70 (82)	130 (110)	
	o-Xylene	20	22.6	ug/L	113			70 (83)	130 (109)	
	Styrene	20	22.0	ug/L	110			70 (80)	130 (111)	
	Bromoform	20	20.9	ug/L	104			70 (79)	130 (109)	
	Isopropylbenzene	20	21.3	ug/L	106			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	19.3	ug/L	97			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	19.2	ug/L	96			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	20.3	ug/L	102			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	19.3	ug/L	97			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.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084846.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1114WBS02	1,2-Dibromo-3-Chloropropane	20	18.0	ug/L	90			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	18.7	ug/L	94			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	18.6	ug/L	93			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.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084847.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1114WBSD02	Dichlorodifluoromethane	20	18.7	ug/L	94	3		40 (69)	160 (116)	20 (20)
	Chloromethane	20	16.7	ug/L	84	4		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	21.2	ug/L	106	2		70 (65)	130 (117)	20 (20)
	Bromomethane	20	20.8	ug/L	104	1		40 (58)	160 (125)	20 (20)
	Chloroethane	20	22.1	ug/L	111	3		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.5	ug/L	98	2		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100	4		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.5	ug/L	98	4		70 (74)	130 (110)	20 (20)
	Acetone	100	110	ug/L	110	10		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	17.2	ug/L	86	0		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	21.8	ug/L	109	7		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	16.8	ug/L	84	10		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.0	ug/L	100	4		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.1	ug/L	96	1		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	20.4	ug/L	102	1		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.7	ug/L	94	2		70 (75)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	12		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	21.3	ug/L	106	5		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	20.4	ug/L	102	2		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	22.4	ug/L	112	8		70 (70)	130 (124)	20 (20)
	Chloroform	20	20.7	ug/L	104	3		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	20.8	ug/L	104	1		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	21.8	ug/L	109	4		70 (72)	130 (115)	20 (20)
	Benzene	20	20.3	ug/L	102	1		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	21.3	ug/L	106	2		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	20.8	ug/L	104	2		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	21.2	ug/L	106	1		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	21.1	ug/L	106	3		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		40 (74)	160 (118)	20 (20)
	Toluene	20	21.8	ug/L	109	1		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	20.6	ug/L	103	0		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	21.1	ug/L	106	2		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	21.2	ug/L	106	2		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	0		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	22.2	ug/L	111	3		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	21.5	ug/L	108	2		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	21.9	ug/L	110	1		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	21.1	ug/L	106	0		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	21.4	ug/L	107	0		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	43.6	ug/L	109	1		70 (82)	130 (110)	20 (20)
	o-Xylene	20	22.2	ug/L	111	2		70 (83)	130 (109)	20 (20)
	Styrene	20	21.7	ug/L	109	1		70 (80)	130 (111)	20 (20)
	Bromoform	20	21.6	ug/L	108	4		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	21.8	ug/L	109	3		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	20.8	ug/L	104	7		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	19.4	ug/L	97	1		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	20.8	ug/L	104	2		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	19.4	ug/L	97	0		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.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084847.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1114WBSD02	1,2-Dibromo-3-Chloropropane	20	19.0	ug/L	95	5		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	18.4	ug/L	92	2		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	18.0	ug/L	90	3		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.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020223.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1108SBS01	Dichlorodifluoromethane	20	17.2	ug/Kg	86			40 (64)	160 (136)	
	Chloromethane	20	18.6	ug/Kg	93			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	20.2	ug/Kg	101			40 (58)	160 (141)	
	Chloroethane	20	19.9	ug/Kg	100			40 (69)	160 (130)	
	Trichlorofluoromethane	20	21.4	ug/Kg	107			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.6	ug/Kg	103			70 (81)	130 (123)	
	1,1-Dichloroethene	20	20.2	ug/Kg	101			70 (79)	130 (121)	
	Acetone	100	100	ug/Kg	100			40 (60)	160 (131)	
	Carbon disulfide	20	17.1	ug/Kg	86			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	21.8	ug/Kg	109			70 (77)	130 (129)	
	Methyl Acetate	20	20.8	ug/Kg	104			70 (69)	130 (149)	
	Methylene Chloride	20	18.5	ug/Kg	93			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	20.1	ug/Kg	101			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.6	ug/Kg	103			70 (82)	130 (123)	
	Cyclohexane	20	18.5	ug/Kg	93			70 (76)	130 (122)	
	2-Butanone	100	100	ug/Kg	100			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.1	ug/Kg	101			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			70 (82)	130 (123)	
	Bromochloromethane	20	19.9	ug/Kg	100			70 (80)	130 (127)	
	Chloroform	20	21.1	ug/Kg	106			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.1	ug/Kg	106			70 (80)	130 (126)	
	Methylcyclohexane	20	18.5	ug/Kg	93			70 (77)	130 (123)	
	Benzene	20	19.8	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.4	ug/Kg	102			70 (81)	130 (126)	
	Trichloroethene	20	19.7	ug/Kg	99			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.5	ug/Kg	103			70 (83)	130 (122)	
	Bromodichloromethane	20	20.7	ug/Kg	104			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	19.9	ug/Kg	100			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.0	ug/Kg	100			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.3	ug/Kg	102			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.5	ug/Kg	103			70 (82)	130 (125)	
	2-Hexanone	100	100	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	20.7	ug/Kg	104			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.4	ug/Kg	102			70 (80)	130 (125)	
	Tetrachloroethene	20	20.5	ug/Kg	103			70 (83)	130 (125)	
	Chlorobenzene	20	20.1	ug/Kg	101			70 (84)	130 (122)	
	Ethyl Benzene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	m/p-Xylenes	40	40.6	ug/Kg	102			70 (83)	130 (124)	
	o-Xylene	20	20.0	ug/Kg	100			70 (83)	130 (123)	
	Styrene	20	20.7	ug/Kg	104			70 (82)	130 (124)	
	Bromoform	20	21.4	ug/Kg	107			70 (75)	130 (127)	
	Isopropylbenzene	20	20.6	ug/Kg	103			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	20.9	ug/Kg	104			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.8	ug/Kg	104			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.6	ug/Kg	103			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.5	ug/Kg	103			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.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020223.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1108SBS01	1,2-Dibromo-3-Chloropropane	20	21.5	ug/Kg	108			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.2	ug/Kg	96			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.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020224.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1108SBSD01	Dichlorodifluoromethane	20	19.9	ug/Kg	100	15		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.8	ug/Kg	99	6		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	20.4	ug/Kg	102	5		70 (72)	130 (129)	30 (20)
	Bromomethane	20	21.2	ug/Kg	106	5		40 (58)	160 (141)	30 (20)
	Chloroethane	20	21.2	ug/Kg	106	6		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	22.6	ug/Kg	113	5		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.5	ug/Kg	108	5		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	21.1	ug/Kg	106	5		70 (79)	130 (121)	30 (20)
	Acetone	100	110	ug/Kg	110	10		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	18.0	ug/Kg	90	5		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	23.6	ug/Kg	118	8		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	24.5	ug/Kg	123	17		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.4	ug/Kg	102	9		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.3	ug/Kg	102	1		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.5	ug/Kg	108	5		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	19.1	ug/Kg	96	3		70 (76)	130 (122)	30 (20)
	2-Butanone	100	120	ug/Kg	120	18		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	21.0	ug/Kg	105	4		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	21.1	ug/Kg	106	3		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	17.7	ug/Kg	89	12		70 (80)	130 (127)	30 (20)
	Chloroform	20	21.9	ug/Kg	110	4		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	21.5	ug/Kg	108	2		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.7	ug/Kg	99	6		70 (77)	130 (123)	30 (20)
	Benzene	20	20.8	ug/Kg	104	5		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	22.5	ug/Kg	113	10		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	21.1	ug/Kg	106	7		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	21.9	ug/Kg	110	7		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	22.2	ug/Kg	111	7		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	120	ug/Kg	120	18		40 (70)	160 (135)	30 (20)
	Toluene	20	21.4	ug/Kg	107	7		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	22.1	ug/Kg	111	10		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	21.7	ug/Kg	109	7		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	22.9	ug/Kg	115	11		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	120	ug/Kg	120	18		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	22.8	ug/Kg	114	9		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	22.5	ug/Kg	113	10		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	21.4	ug/Kg	107	4		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	21.5	ug/Kg	108	7		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	21.2	ug/Kg	106	7		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	42.5	ug/Kg	106	4		70 (83)	130 (124)	30 (20)
	o-Xylene	20	21.5	ug/Kg	108	8		70 (83)	130 (123)	30 (20)
	Styrene	20	21.8	ug/Kg	109	5		70 (82)	130 (124)	30 (20)
	Bromoform	20	23.6	ug/Kg	118	10		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	21.6	ug/Kg	108	5		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	22.7	ug/Kg	114	9		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	21.6	ug/Kg	108	4		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	21.2	ug/Kg	106	3		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	22.0	ug/Kg	110	7		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.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020224.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1108SBSD01	1,2-Dibromo-3-Chloropropane	20	23.4	ug/Kg	117	8		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.9	ug/Kg	104	5		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.4	ug/Kg	102	6		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.

VN1114WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VN084844.D Lab Sample ID: VN1114WBL01

Date Analyzed: 11/14/2024 Time Analyzed: 10:52

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
VN1114WBS02	VN1114WBS02	VN084846.D	11/14/2024
VN1114WBSD02	VN1114WBSD02	VN084847.D	11/14/2024
TB-11042024	P4718-05	VN084851.D	11/14/2024
WB-307-SW	P4718-04	VN084853.D	11/14/2024

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1108SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VY020222.D Lab Sample ID: VY1108SBL01

Date Analyzed: 11/08/2024 Time Analyzed: 10:40

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
VY1108SBS01	VY1108SBS01	VY020223.D	11/08/2024
VY1108SBSD01	VY1108SBSD01	VY020224.D	11/08/2024
WB-307-SB01	P4718-01	VY020233.D	11/08/2024
WB-307-SB02	P4718-02	VY020234.D	11/08/2024

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VN084569.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 10:42

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	70.1 (95.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN084570.D	10/30/2024	11:46
VSTDICCC050	VSTDICCC050	VN084571.D	10/30/2024	12:09
VSTDICC020	VSTDICC020	VN084572.D	10/30/2024	12:33
VSTDICC010	VSTDICC010	VN084573.D	10/30/2024	12:57
VSTDICC005	VSTDICC005	VN084574.D	10/30/2024	13:21
VSTDICC001	VSTDICC001	VN084575.D	10/30/2024	13:45

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.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VN084841.D BFB Injection Date: 11/14/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:53

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.9
75	30.0 - 60.0% of mass 95	51.1
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	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	74.4
175	5.0 - 9.0% of mass 174	5.6 (7.5) 1
176	95.0 - 101.0% of mass 174	73.3 (98.5) 1
177	5.0 - 9.0% of mass 176	4.6 (6.3) 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	VN084842.D	11/14/2024	09:54
VN1114WBL01	VN1114WBL01	VN084844.D	11/14/2024	10:52
VN1114WBS02	VN1114WBS02	VN084846.D	11/14/2024	12:50
VN1114WBSD02	VN1114WBSD02	VN084847.D	11/14/2024	13:24
TB-11042024	P4718-05	VN084851.D	11/14/2024	14:59
WB-307-SW	P4718-04	VN084853.D	11/14/2024	15:47

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.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VY020074.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_Y BFB Injection Time: 12:07

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	24
75	30.0 - 60.0% of mass 95	57.2
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	74.5
175	5.0 - 9.0% of mass 174	5.8 (7.8) 1
176	95.0 - 101.0% of mass 174	70.8 (95.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY020075.D	10/30/2024	12:39
VSTDICC010	VSTDICC010	VY020076.D	10/30/2024	13:02
VSTDICC020	VSTDICC020	VY020077.D	10/30/2024	13:24
VSTDICCC050	VSTDICCC050	VY020078.D	10/30/2024	14:06
VSTDICC100	VSTDICC100	VY020079.D	10/30/2024	14:29
VSTDICC150	VSTDICC150	VY020080.D	10/30/2024	14:52

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.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VY020220.D BFB Injection Date: 11/08/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:45

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	23
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	72.6 (98.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY020221.D	11/08/2024	09:33
VY1108SBL01	VY1108SBL01	VY020222.D	11/08/2024	10:40
VY1108SBS01	VY1108SBS01	VY020223.D	11/08/2024	11:19
VY1108SBSD01	VY1108SBSD01	VY020224.D	11/08/2024	11:41
WB-307-SB01	P4718-01	VY020233.D	11/08/2024	15:12
WB-307-SB02	P4718-02	VY020234.D	11/08/2024	15:35

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.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VN084842.D Date Analyzed: 11/14/2024

Instrument ID: MSVOA_N Time Analyzed: 09:54

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	192160	8.22	316615	9.09	272995	11.87
UPPER LIMIT	384320	8.718	633230	9.594	545990	12.365
LOWER LIMIT	96080	7.718	158308	8.594	136498	11.365
EPA SAMPLE NO.						
WB-307-SW	203676	8.22	345476	9.09	299825	11.87
TB-11042024	193262	8.22	335586	9.10	288886	11.87
VN1114WBL01	203029	8.22	340637	9.09	293869	11.86
VN1114WBS02	169550	8.22	270058	9.09	234639	11.87
VN1114WBSD02	161141	8.22	263729	9.10	229436	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.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VN084842.D Date Analyzed: 11/14/2024

Instrument ID: MSVOA_N Time Analyzed: 09:54

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

	IS4 AREA #	RT #				
12 HOUR STD	137639	13.788				
UPPER LIMIT	275278	14.288				
LOWER LIMIT	68819.5	13.288				
EPA SAMPLE NO.						
WB-307-SW	136300	13.79				
TB-11042024	136820	13.79				
VN1114WBL01	131669	13.79				
VN1114WBS02	118912	13.79				
VN1114WBSD02	112382	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.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VY020221.D Date Analyzed: 11/08/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:33

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	282936	7.71	514187	8.62	441792	11.42
UPPER LIMIT	565872	8.213	1028370	9.116	883584	11.92
LOWER LIMIT	141468	7.213	257094	8.116	220896	10.92
EPA SAMPLE NO.						
WB-307-SB01	200375	7.71	415302	8.62	374550	11.41
WB-307-SB02	200262	7.71	428332	8.62	399084	11.41
VY1108SBL01	212436	7.71	452508	8.62	403401	11.42
VY1108SBS01	263593	7.71	480169	8.62	412478	11.41
VY1108SBSD01	271139	7.71	485080	8.62	417238	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.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VY020221.D Date Analyzed: 11/08/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:33

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

	IS4 AREA #	RT #				
12 HOUR STD	208354	13.353				
UPPER LIMIT	416708	13.853				
LOWER LIMIT	104177	12.853				
EPA SAMPLE NO.						
WB-307-SB01	128433	13.35				
WB-307-SB02	136217	13.35				
VY1108SBL01	137264	13.35				
VY1108SBS01	187903	13.35				
VY1108SBSD01	193395	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: **VN084844.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 2024	Date Received:	
Client Sample ID:	VN1114WBL01	SDG No.:	P4718
Lab Sample ID:	VN1114WBL01	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
VN084844.D	1		11/14/24 10:52	VN111424

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 2024	Date Received:	
Client Sample ID:	VN1114WBL01	SDG No.:	P4718
Lab Sample ID:	VN1114WBL01	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
VN084844.D	1		11/14/24 10:52	VN111424

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	50.9		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	46.3		70 (86) - 130 (113)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	203000	8.218			
540-36-3	1,4-Difluorobenzene	341000	9.094			
3114-55-4	Chlorobenzene-d5	294000	11.859			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.788			

Raw Data: **VN084844.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 2024	Date Received:	
Client Sample ID:	VN1114WBL01	SDG No.:	P4718
Lab Sample ID:	VN1114WBL01	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
VN084844.D	1		11/14/24 10:52	VN111424

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 2024	Date Received:	
Client Sample ID:	VY1108SBL01	SDG No.:	P4718
Lab Sample ID:	VY1108SBL01	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
VY020222.D	1		11/08/24 10:40	VY110824

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 2024	Date Received:	
Client Sample ID:	VY1108SBL01	SDG No.:	P4718
Lab Sample ID:	VY1108SBL01	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
VY020222.D	1		11/08/24 10:40	VY110824

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	55.5		70 (50) - 130 (163)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	48.3		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		70 (29) - 130 (146)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	212000	7.713			
540-36-3	1,4-Difluorobenzene	453000	8.616			
3114-55-4	Chlorobenzene-d5	403000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.352			

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 2024	Date Received:	
Client Sample ID:	VY1108SBL01	SDG No.:	P4718
Lab Sample ID:	VY1108SBL01	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
VY020222.D	1		11/08/24 10:40	VY110824

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: **VN084846.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 2024	Date Received:	
Client Sample ID:	VN1114WBS02	SDG No.:	P4718
Lab Sample ID:	VN1114WBS02	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
VN084846.D	1		11/14/24 12:50	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.4		0.21	1.00	ug/L
74-87-3	Chloromethane	16.3		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	21.6		0.34	1.00	ug/L
74-83-9	Bromomethane	20.5		1.40	5.00	ug/L
75-00-3	Chloroethane	21.5		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	20.7		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.26	1.00	ug/L
67-64-1	Acetone	100		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	15.1		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.1		1.60	5.00	ug/L
78-93-3	2-Butanone	98.4		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	22.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.25	1.00	ug/L
74-97-5	Bromochloromethane	20.5		0.18	1.00	ug/L
67-66-3	Chloroform	20.2		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.6		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	22.5		0.19	1.00	ug/L
71-43-2	Benzene	20.6		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.7		0.24	1.00	ug/L
79-01-6	Trichloroethene	21.2		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.0		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.5		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	21.6		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 2024	Date Received:	
Client Sample ID:	VN1114WBS02	SDG No.:	P4718
Lab Sample ID:	VN1114WBS02	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
VN084846.D	1		11/14/24 12:50	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.5		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.1		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	22.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	43.2		0.31	2.00	ug/L
95-47-6	o-Xylene	22.6		0.14	1.00	ug/L
100-42-5	Styrene	22.0		0.16	1.00	ug/L
75-25-2	Bromoform	20.9		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.3		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	19.2		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.3		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.3		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		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	18.6		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		70 (74) - 130 (125)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	49.0		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	170000	8.218			
540-36-3	1,4-Difluorobenzene	270000	9.094			
3114-55-4	Chlorobenzene-d5	235000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.788			

Raw Data: **VN084846.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 2024	Date Received:	
Client Sample ID:	VN1114WBS02	SDG No.:	P4718
Lab Sample ID:	VN1114WBS02	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
VN084846.D	1		11/14/24 12:50	VN111424

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 2024	Date Received:	
Client Sample ID:	VY1108SBS01	SDG No.:	P4718
Lab Sample ID:	VY1108SBS01	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
VY020223.D	1		11/08/24 11:19	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	17.2		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.6		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.2		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.9		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.4		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.6		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		0.78	5.00	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.1		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.8		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	20.8		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	18.5		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	20.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	100		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.1		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.1		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.5		0.87	5.00	ug/Kg
71-43-2	Benzene	19.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.7		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.5		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		4.40	25.0	ug/Kg
108-88-3	Toluene	19.9		0.67	5.00	ug/Kg

Raw Data: **VY020223.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 2024	Date Received:	
Client Sample ID:	VY1108SBS01	SDG No.:	P4718
Lab Sample ID:	VY1108SBS01	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
VY020223.D	1		11/08/24 11:19	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.0		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.5		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	100		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.7		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.4		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.8		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.0		0.70	5.00	ug/Kg
100-42-5	Styrene	20.7		0.60	5.00	ug/Kg
75-25-2	Bromoform	21.4		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.6		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.8		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.6		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.5		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.5		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.8		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.2		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		70 (50) - 130 (163)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		70 (29) - 130 (146)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	264000	7.707			
540-36-3	1,4-Difluorobenzene	480000	8.615			
3114-55-4	Chlorobenzene-d5	412000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	188000	13.346			

Raw Data: **VY020223.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 2024	Date Received:	
Client Sample ID:	VY1108SBS01	SDG No.:	P4718
Lab Sample ID:	VY1108SBS01	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
VY020223.D	1		11/08/24 11:19	VY110824

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 2024	Date Received:	
Client Sample ID:	VN1114WBSD02	SDG No.:	P4718
Lab Sample ID:	VN1114WBSD02	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
VN084847.D	1		11/14/24 13:24	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		0.21	1.00	ug/L
74-87-3	Chloromethane	16.7		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	21.2		0.34	1.00	ug/L
74-83-9	Bromomethane	20.8		1.40	5.00	ug/L
75-00-3	Chloroethane	22.1		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.5		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.5		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.2		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.8		0.16	1.00	ug/L
79-20-9	Methyl Acetate	16.8		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.1		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.4		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.7		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.3		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.4		0.25	1.00	ug/L
74-97-5	Bromochloromethane	22.4		0.18	1.00	ug/L
67-66-3	Chloroform	20.7		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	21.8		0.19	1.00	ug/L
71-43-2	Benzene	20.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.3		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.8		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.2		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	21.1		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	21.8		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 2024	Date Received:	
Client Sample ID:	VN1114WBSD02	SDG No.:	P4718
Lab Sample ID:	VN1114WBSD02	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
VN084847.D	1		11/14/24 13:24	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.6		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	22.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.5		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.9		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	43.6		0.31	2.00	ug/L
95-47-6	o-Xylene	22.2		0.14	1.00	ug/L
100-42-5	Styrene	21.7		0.16	1.00	ug/L
75-25-2	Bromoform	21.6		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.8		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.8		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	20.8		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.4		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.4		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.0		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.6		70 (74) - 130 (125)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	161000	8.218			
540-36-3	1,4-Difluorobenzene	264000	9.1			
3114-55-4	Chlorobenzene-d5	229000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	112000	13.788			

Raw Data: **VN084847.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 2024	Date Received:	
Client Sample ID:	VN1114WBSD02	SDG No.:	P4718
Lab Sample ID:	VN1114WBSD02	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
VN084847.D	1		11/14/24 13:24	VN111424

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 2024	Date Received:	
Client Sample ID:	VY1108SBSD01	SDG No.:	P4718
Lab Sample ID:	VY1108SBSD01	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
VY020224.D	1		11/08/24 11:41	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.9		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.8		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.2		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.2		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.6		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.1		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.0		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	23.6		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	24.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.4		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.3		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	120		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.1		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.7		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.7		0.87	5.00	ug/Kg
71-43-2	Benzene	20.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.5		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	21.1		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.9		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	120		4.40	25.0	ug/Kg
108-88-3	Toluene	21.4		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 2024	Date Received:	
Client Sample ID:	VY1108SBSD01	SDG No.:	P4718
Lab Sample ID:	VY1108SBSD01	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
VY020224.D	1		11/08/24 11:41	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	22.1		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.7		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.9		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	120		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	22.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	22.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.4		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	21.5		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.2		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.5		1.40	10.0	ug/Kg
95-47-6	o-Xylene	21.5		0.70	5.00	ug/Kg
100-42-5	Styrene	21.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	23.6		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.6		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	22.7		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.6		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.2		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	22.0		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	23.4		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.9		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.4		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.8		70 (50) - 130 (163)	116%	SPK: 50
1868-53-7	Dibromofluoromethane	55.4		70 (54) - 130 (147)	111%	SPK: 50
2037-26-5	Toluene-d8	54.3		70 (58) - 130 (134)	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.4		70 (29) - 130 (146)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	271000	7.707			
540-36-3	1,4-Difluorobenzene	485000	8.616			
3114-55-4	Chlorobenzene-d5	417000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	193000	13.347			

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 2024	Date Received:	
Client Sample ID:	VY1108SBSD01	SDG No.:	P4718
Lab Sample ID:	VY1108SBSD01	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
VY020224.D	1		11/08/24 11:41	VY110824

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

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.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45

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

LAB FILE ID: RRF100 = VN084570.D RRF050 = VN084571.D RRF020 = VN084572.D
RRF010 = VN084573.D RRF005 = VN084574.D RRF001 = VN084575.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.571	0.552	0.552	0.598	0.594	0.581	0.575	3.4
Chloromethane	0.658	0.672	0.725	0.871	0.995	1.789	0.952	45.2
Vinyl Chloride	0.613	0.605	0.623	0.636	0.651	0.581	0.618	4
Bromomethane	0.292	0.296	0.310	0.336	0.405		0.328	14.2
Chloroethane	0.378	0.376	0.413	0.426	0.475	0.863	0.488	38.3
Trichlorofluoromethane	0.971	0.959	1.017	1.022	1.070	1.071	1.018	4.7
1,1,2-Trichlorotrifluoroethane	0.566	0.557	0.571	0.585	0.588	0.586	0.575	2.2
1,1-Dichloroethene	0.548	0.538	0.560	0.575	0.552	0.644	0.569	6.8
Acetone	0.209	0.204	0.213	0.223	0.241	0.338	0.238	21.3
Carbon Disulfide	1.604	1.603	1.700	1.714	1.784	2.117	1.753	10.9
Methyl tert-butyl Ether	1.773	1.758	1.802	1.779	1.786	1.572	1.745	4.9
Methyl Acetate	0.731	0.749	0.954	1.044	1.266	2.291	1.172	49.7
Methylene Chloride	0.604	0.602	0.633	0.658	0.714	0.600	0.635	7.1
trans-1,2-Dichloroethene	0.565	0.563	0.596	0.600	0.584	0.601	0.585	2.9
1,1-Dichloroethane	1.067	1.066	1.114	1.127	1.203	1.033	1.102	5.5
Cyclohexane	0.956	0.938	0.956	1.043	1.093		0.997	6.8
2-Butanone	0.316	0.315	0.348	0.338	0.370	0.334	0.337	6.1
Carbon Tetrachloride	0.530	0.514	0.532	0.548	0.537	0.488	0.525	4
cis-1,2-Dichloroethene	0.675	0.662	0.697	0.685	0.705	0.673	0.683	2.4
Bromochloromethane	0.483	0.511	0.388	0.415	0.408	0.429	0.439	10.8
Chloroform	1.099	1.086	1.142	1.154	1.222	1.025	1.121	6
1,1,1-Trichloroethane	1.000	0.991	1.046	1.073	1.032	0.980	1.021	3.5
Methylcyclohexane	0.546	0.509	0.495	0.487	0.458	0.371	0.478	12.5
Benzene	1.494	1.448	1.509	1.507	1.546	1.540	1.507	2.4
1,2-Dichloroethane	0.488	0.494	0.493	0.492	0.503	0.459	0.488	3.1
Trichloroethene	0.339	0.335	0.345	0.338	0.341	0.387	0.348	5.7
1,2-Dichloropropane	0.356	0.348	0.358	0.357	0.373	0.330	0.354	4
Bromodichloromethane	0.528	0.521	0.526	0.522	0.529	0.530	0.526	0.7
4-Methyl-2-Pentanone	0.424	0.423	0.416	0.417	0.412	0.344	0.406	7.6
Toluene	0.923	0.899	0.919	0.902	0.891	0.757	0.882	7.1

* 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.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45

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

LAB FILE ID: RRF100 = VN084570.D RRF050 = VN084571.D RRF020 = VN084572.D
RRF010 = VN084573.D RRF005 = VN084574.D RRF001 = VN084575.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.552	0.543	0.538	0.532	0.547	0.555	0.544	1.6
cis-1,3-Dichloropropene	0.592	0.581	0.582	0.569	0.584	0.548	0.576	2.7
1,1,2-Trichloroethane	0.336	0.329	0.334	0.342	0.342	0.309	0.332	3.7
2-Hexanone	0.314	0.312	0.301	0.297	0.294	0.256	0.296	7.1
Dibromochloromethane	0.404	0.394	0.391	0.393	0.377	0.312	0.378	8.9
1,2-Dibromoethane	0.340	0.333	0.341	0.335	0.355	0.336	0.340	2.4
Tetrachloroethene	0.326	0.313	0.333	0.347	0.351	0.325	0.333	4.3
Chlorobenzene	1.068	1.061	1.149	1.123	1.165	1.146	1.119	3.9
Ethyl Benzene	1.957	1.891	1.928	1.880	1.849	1.697	1.867	4.9
m/p-Xylenes	0.737	0.728	0.737	0.701	0.683	0.654	0.707	4.8
o-Xylene	0.703	0.690	0.701	0.679	0.645	0.550	0.661	8.9
Styrene	1.223	1.205	1.206	1.144	1.093	1.050	1.154	6.1
Bromoform	0.287	0.295	0.298	0.289	0.302	0.286	0.293	2.3
Isopropylbenzene	3.558	3.570	3.701	3.605	3.402	3.188	3.504	5.2
1,1,2,2-Tetrachloroethane	1.052	1.073	1.163	1.190	1.317	1.222	1.170	8.4
1,3-Dichlorobenzene	1.642	1.668	1.770	1.802	1.884	2.264	1.838	12.3
1,4-Dichlorobenzene	1.646	1.674	1.782	1.867	1.879	2.773	1.937	21.7
1,2-Dichlorobenzene	1.601	1.618	1.748	1.732	1.879	2.021	1.766	9.1
1,2-Dibromo-3-Chloropropane	0.204	0.217	0.229	0.226	0.274	0.272	0.237	12.3
1,2,4-Trichlorobenzene	0.852	0.865	0.895	0.881	0.956	1.353	0.967	19.9
1,2,3-Trichlorobenzene	0.832	0.841	0.953	0.877	0.939	1.189	0.939	14.1
1,2-Dichloroethane-d4	0.689	0.721	0.708	0.722	0.771		0.722	4.2
Dibromofluoromethane	0.334	0.344	0.326	0.336	0.353		0.338	3.1
Toluene-d8	1.267	1.303	1.216	1.231	1.217		1.247	3
4-Bromofluorobenzene	0.481	0.493	0.450	0.451	0.454		0.466	4.3

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

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.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID: RRF005 = VY020075.D RRF010 = VY020076.D RRF020 = VY020077.D
RRF050 = VY020078.D RRF100 = VY020079.D RRF150 = VY020080.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.507	0.488	0.482	0.381	0.456	0.463	0.463	9.5
Chloromethane	0.831	0.835	0.791	0.683	0.731	0.728	0.767	8.1
Vinyl Chloride	0.867	0.874	0.835	0.754	0.809	0.799	0.823	5.5
Bromomethane	0.631	0.574	0.545	0.480	0.521	0.528	0.546	9.5
Chloroethane	0.562	0.555	0.546	0.486	0.527	0.511	0.531	5.5
Trichlorofluoromethane	1.025	1.018	1.037	0.927	1.012	1.014	1.005	3.9
1,1,2-Trichlorotrifluoroethane	0.597	0.584	0.567	0.509	0.561	0.565	0.564	5.3
1,1-Dichloroethene	0.534	0.578	0.536	0.493	0.543	0.552	0.540	5.1
Acetone	0.134	0.138	0.138	0.140	0.165	0.155	0.145	8.5
Carbon Disulfide	1.790	1.835	1.806	1.674	1.832	1.837	1.796	3.5
Methyl tert-butyl Ether	1.229	1.344	1.376	1.241	1.483	1.471	1.357	8
Methyl Acetate	0.314	0.357	0.351	0.317	0.362	0.342	0.340	6
Methylene Chloride	0.807	0.716	0.641	0.555	0.597	0.597	0.652	14.3
trans-1,2-Dichloroethene	0.611	0.618	0.613	0.564	0.616	0.628	0.609	3.7
1,1-Dichloroethane	1.155	1.209	1.189	1.070	1.194	1.200	1.170	4.5
Cyclohexane	1.284	1.206	1.138	0.986	1.093	1.088	1.132	9.1
2-Butanone	0.187	0.197	0.192	0.179	0.219	0.206	0.197	7.3
Carbon Tetrachloride	0.467	0.491	0.499	0.462	0.519	0.524	0.494	5.2
cis-1,2-Dichloroethene	0.646	0.714	0.715	0.646	0.740	0.736	0.700	6.1
Bromochloromethane	0.572	0.562	0.527	0.505	0.553	0.567	0.548	4.8
Chloroform	1.141	1.170	1.186	1.068	1.196	1.203	1.161	4.3
1,1,1-Trichloroethane	0.986	1.026	1.009	0.950	1.041	1.069	1.013	4.1
Methylcyclohexane	0.603	0.602	0.631	0.578	0.665	0.661	0.623	5.6
Benzene	1.414	1.405	1.455	1.325	1.504	1.498	1.433	4.7
1,2-Dichloroethane	0.379	0.391	0.402	0.365	0.425	0.418	0.397	5.8
Trichloroethene	0.328	0.331	0.332	0.307	0.348	0.346	0.332	4.4
1,2-Dichloropropane	0.323	0.331	0.357	0.320	0.363	0.364	0.343	6
Bromodichloromethane	0.459	0.476	0.487	0.451	0.526	0.522	0.487	6.4
4-Methyl-2-Pentanone	0.190	0.223	0.238	0.219	0.269	0.252	0.232	11.9
Toluene	0.803	0.859	0.900	0.833	0.953	0.953	0.884	7.1

* 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 ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID: RRF005 = VY020075.D RRF010 = VY020076.D RRF020 = VY020077.D
RRF050 = VY020078.D RRF100 = VY020079.D RRF150 = VY020080.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.369	0.400	0.436	0.401	0.486	0.487	0.430	11.3
cis-1,3-Dichloropropene	0.446	0.485	0.518	0.484	0.573	0.573	0.513	10
1,1,2-Trichloroethane	0.206	0.225	0.235	0.216	0.257	0.248	0.231	8.4
2-Hexanone	0.131	0.161	0.168	0.158	0.198	0.182	0.166	13.7
Dibromochloromethane	0.256	0.281	0.300	0.273	0.332	0.326	0.295	10.3
1,2-Dibromoethane	0.203	0.214	0.215	0.196	0.233	0.228	0.215	6.7
Tetrachloroethene	0.326	0.316	0.344	0.307	0.344	0.343	0.330	4.8
Chlorobenzene	1.024	1.044	1.094	0.993	1.114	1.124	1.065	5
Ethyl Benzene	1.886	1.934	2.015	1.876	2.114	2.124	1.992	5.5
m/p-Xylenes	0.685	0.693	0.742	0.692	0.779	0.782	0.729	6.2
o-Xylene	0.652	0.662	0.686	0.649	0.745	0.745	0.690	6.5
Styrene	0.985	1.080	1.154	1.093	1.259	1.273	1.141	9.8
Bromoform	0.151	0.162	0.173	0.165	0.202	0.195	0.175	11.4
Isopropylbenzene	4.065	3.829	3.995	3.685	4.099	4.293	3.994	5.3
1,1,2,2-Tetrachloroethane	0.716	0.707	0.698	0.624	0.727	0.719	0.699	5.4
1,3-Dichlorobenzene	1.659	1.521	1.680	1.509	1.703	1.774	1.641	6.4
1,4-Dichlorobenzene	1.680	1.604	1.653	1.487	1.666	1.716	1.634	5
1,2-Dichlorobenzene	1.391	1.384	1.460	1.310	1.483	1.530	1.426	5.6
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.106	0.092	0.114	0.112	0.106	7.6
1,2,4-Trichlorobenzene	0.652	0.708	0.784	0.693	0.865	0.895	0.766	12.8
1,2,3-Trichlorobenzene	0.578	0.606	0.653	0.575	0.737	0.754	0.650	12.1
1,2-Dichloroethane-d4	0.608	0.657	0.578	0.586	0.668	0.647	0.624	6.1
Dibromofluoromethane	0.305	0.317	0.300	0.305	0.340	0.340	0.318	5.7
Toluene-d8	1.187	1.251	1.187	1.224	1.380	1.364	1.265	6.8
4-Bromofluorobenzene	0.371	0.402	0.376	0.399	0.463	0.454	0.411	9.5

* 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.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_N Calibration Date/Time: 11/14/2024 09:54

Lab File ID: VN084842.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.575	0.573		-0.35	20
Chloromethane	0.952	0.649	0.1	-31.83	20
Vinyl Chloride	0.618	0.704		13.92	20
Bromomethane	0.328	0.344		4.88	20
Chloroethane	0.488	0.457		-6.35	20
Trichlorofluoromethane	1.018	1.101		8.15	20
1,1,2-Trichlorotrifluoroethane	0.575	0.605		5.22	20
1,1-Dichloroethene	0.569	0.578		1.58	20
Acetone	0.238	0.224		-5.88	20
Carbon Disulfide	1.753	1.595		-9.01	20
Methyl tert-butyl Ether	1.745	1.942		11.29	20
Methyl Acetate	1.172	0.687		-41.38	20
Methylene Chloride	0.635	0.652		2.68	20
trans-1,2-Dichloroethene	0.585	0.598		2.22	20
1,1-Dichloroethane	1.102	1.128	0.1	2.36	20
Cyclohexane	0.997	0.993		-0.4	20
2-Butanone	0.337	0.338		0.3	20
Carbon Tetrachloride	0.525	0.586		11.62	20
cis-1,2-Dichloroethene	0.683	0.720		5.42	20
Bromochloromethane	0.439	0.442		0.68	20
Chloroform	1.121	1.197		6.78	20
1,1,1-Trichloroethane	1.021	1.100		7.74	20
Methylcyclohexane	0.478	0.569		19.04	20
Benzene	1.507	1.597		5.97	20
1,2-Dichloroethane	0.488	0.528		8.2	20
Trichloroethene	0.348	0.361		3.74	20
1,2-Dichloropropane	0.354	0.387		9.32	20
Bromodichloromethane	0.526	0.568		7.99	20
4-Methyl-2-Pentanone	0.406	0.431		6.16	20
Toluene	0.882	0.979		11	20
t-1,3-Dichloropropene	0.544	0.568		4.41	20
cis-1,3-Dichloropropene	0.576	0.622		7.99	20
1,1,2-Trichloroethane	0.332	0.352		6.02	20
2-Hexanone	0.296	0.328		10.81	20
Dibromochloromethane	0.378	0.419		10.85	20
1,2-Dibromoethane	0.340	0.354		4.12	20
Tetrachloroethene	0.333	0.364		9.31	20
Chlorobenzene	1.119	1.180	0.3	5.45	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.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_N Calibration Date/Time: 11/14/2024 09:54

Lab File ID: VN084842.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.867	2.143		14.78	20
m/p-Xylenes	0.707	0.810		14.57	20
o-Xylene	0.661	0.781		18.15	20
Styrene	1.154	1.325		14.82	20
Bromoform	0.293	0.325	0.1	10.92	20
Isopropylbenzene	3.504	3.958		12.96	20
1,1,2,2-Tetrachloroethane	1.170	1.145	0.3	-2.14	20
1,3-Dichlorobenzene	1.838	1.791		-2.56	20
1,4-Dichlorobenzene	1.937	1.765		-8.88	20
1,2-Dichlorobenzene	1.766	1.712		-3.06	20
1,2-Dibromo-3-Chloropropane	0.237	0.214		-9.7	20
1,2,4-Trichlorobenzene	0.967	0.881		-8.89	20
1,2,3-Trichlorobenzene	0.939	0.866		-7.77	20
1,2-Dichloroethane-d4	0.722	0.657		-9	20
Dibromofluoromethane	0.338	0.320		-5.32	20
Toluene-d8	1.247	1.188		-4.73	20
4-Bromofluorobenzene	0.466	0.459		-1.5	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.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_Y Calibration Date/Time: 11/08/2024 09:33

Lab File ID: VY020221.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.463	0.412		-11.02	20
Chloromethane	0.767	0.758	0.1	-1.17	20
Vinyl Chloride	0.823	0.902		9.6	20
Bromomethane	0.546	0.575		5.31	20
Chloroethane	0.531	0.600		12.99	20
Trichlorofluoromethane	1.005	1.166		16.02	20
1,1,2-Trichlorotrifluoroethane	0.564	0.638		13.12	20
1,1-Dichloroethene	0.540	0.596		10.37	20
Acetone	0.145	0.177		22.07	20
Carbon Disulfide	1.796	1.901		5.85	20
Methyl tert-butyl Ether	1.357	1.510		11.27	20
Methyl Acetate	0.340	0.345		1.47	20
Methylene Chloride	0.652	0.630		-3.37	20
trans-1,2-Dichloroethene	0.609	0.682		11.99	20
1,1-Dichloroethane	1.170	1.333	0.1	13.93	20
Cyclohexane	1.132	1.185		4.68	20
2-Butanone	0.197	0.214		8.63	20
Carbon Tetrachloride	0.494	0.582		17.81	20
cis-1,2-Dichloroethene	0.700	0.800		14.29	20
Bromochloromethane	0.548	0.552		0.73	20
Chloroform	1.161	1.349		16.19	20
1,1,1-Trichloroethane	1.013	1.203		18.76	20
Methylcyclohexane	0.623	0.708		13.64	20
Benzene	1.433	1.608		12.21	20
1,2-Dichloroethane	0.397	0.432		8.82	20
Trichloroethene	0.332	0.376		13.25	20
1,2-Dichloropropane	0.343	0.385		12.24	20
Bromodichloromethane	0.487	0.557		14.37	20
4-Methyl-2-Pentanone	0.232	0.242		4.31	20
Toluene	0.884	1.030		16.52	20
t-1,3-Dichloropropene	0.430	0.481		11.86	20
cis-1,3-Dichloropropene	0.513	0.573		11.7	20
1,1,2-Trichloroethane	0.231	0.255		10.39	20
2-Hexanone	0.166	0.179		7.83	20
Dibromochloromethane	0.295	0.334		13.22	20
1,2-Dibromoethane	0.215	0.231		7.44	20
Tetrachloroethene	0.330	0.386		16.97	20
Chlorobenzene	1.065	1.227	0.3	15.21	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.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_Y Calibration Date/Time: 11/08/2024 09:33

Lab File ID: VY020221.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.992	2.350		17.97	20
m/p-Xylenes	0.729	0.859		17.83	20
o-Xylene	0.690	0.808		17.1	20
Styrene	1.141	1.371		20.16	20
Bromoform	0.175	0.201	0.1	14.86	20
Isopropylbenzene	3.994	4.721		18.2	20
1,1,2,2-Tetrachloroethane	0.699	0.726	0.3	3.86	20
1,3-Dichlorobenzene	1.641	1.877		14.38	20
1,4-Dichlorobenzene	1.634	1.830		11.99	20
1,2-Dichlorobenzene	1.426	1.635		14.66	20
1,2-Dibromo-3-Chloropropane	0.106	0.107		0.94	20
1,2,4-Trichlorobenzene	0.766	0.872		13.84	20
1,2,3-Trichlorobenzene	0.650	0.716		10.15	20
1,2-Dichloroethane-d4	0.624	0.603		-3.37	20
Dibromofluoromethane	0.318	0.309		-2.83	20
Toluene-d8	1.265	1.242		-1.82	20
4-Bromofluorobenzene	0.411	0.414		0.73	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\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Time: Nov 08 22:19:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	200375	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	415302	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	374550	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	128433	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	151753	60.682	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 121.360%			
35) Dibromofluoromethane	7.634	113	138097	52.300	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.600%			
50) Toluene-d8	10.109	98	518276	49.311	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.620%			
62) 4-Bromofluorobenzene	12.407	95	160323	46.962	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 93.920%			
Target Compounds						Qvalue
16) Acetone	3.891	43	5109	8.785	ug/l #	63
17) Carbon Disulfide	4.110	76	29580	4.111	ug/l	99
20) Methylene Chloride	4.622	84	13173	5.042	ug/l #	83

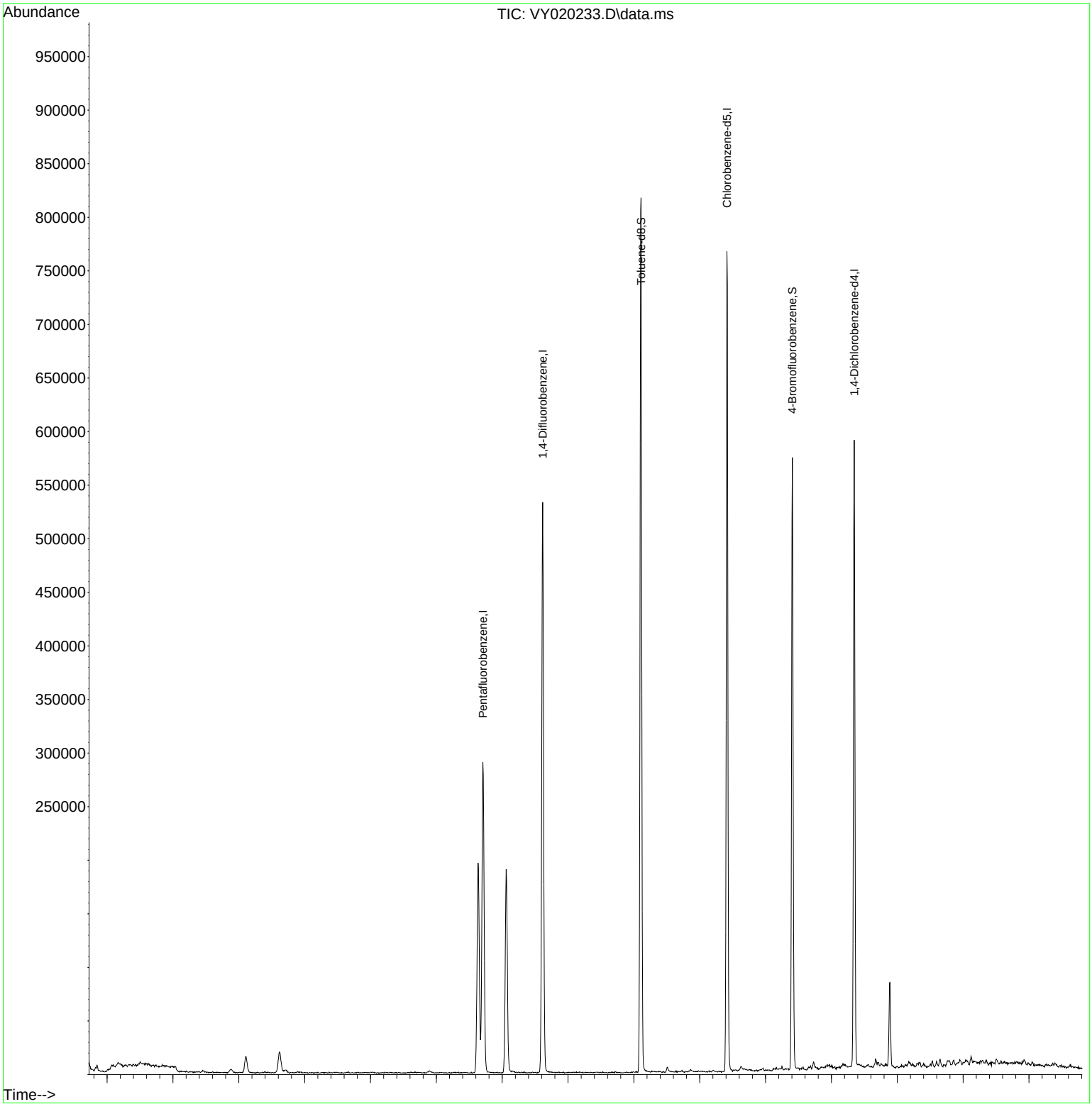
(#) = qualifier out of range (m) = manual integration (+) = signals summed

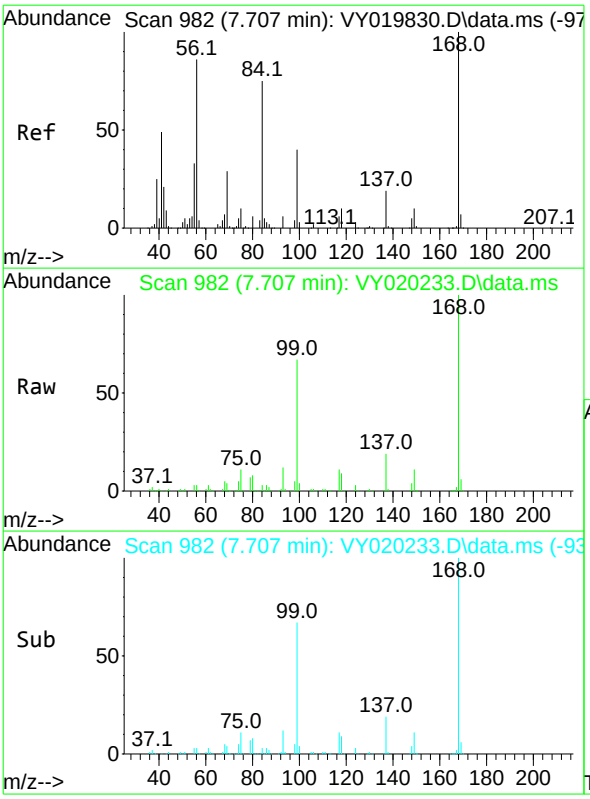
Sample Results: **VY020233.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Time: Nov 08 22:19:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



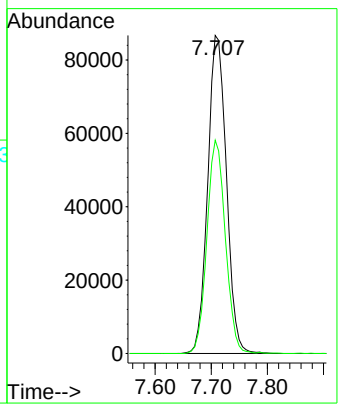


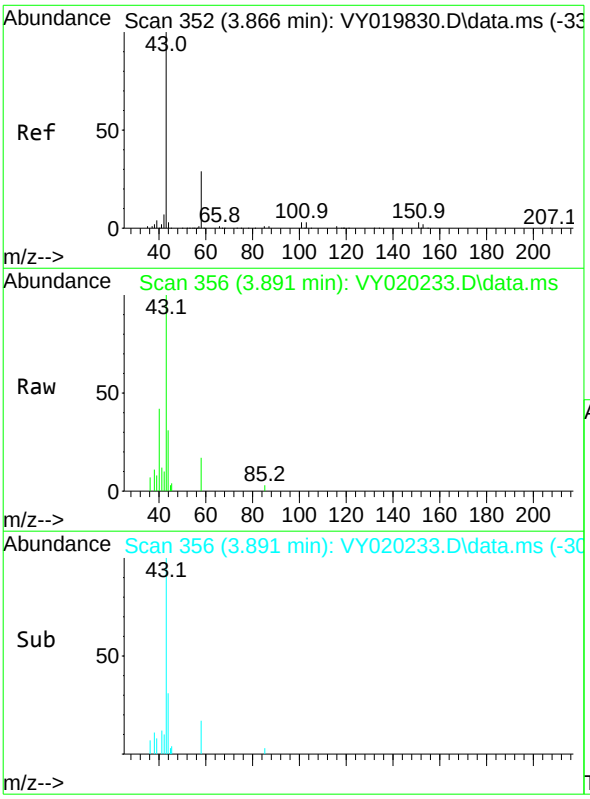
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Tgt Ion:168 Resp: 200375

Ion	Ratio	Lower	Upper
168	100		
99	67.1	39.1	58.7#

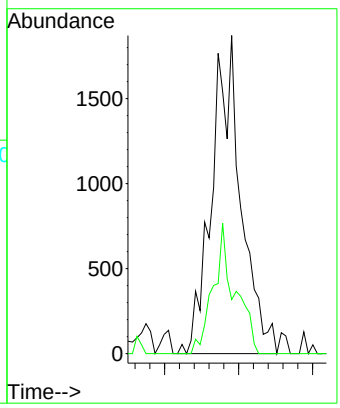


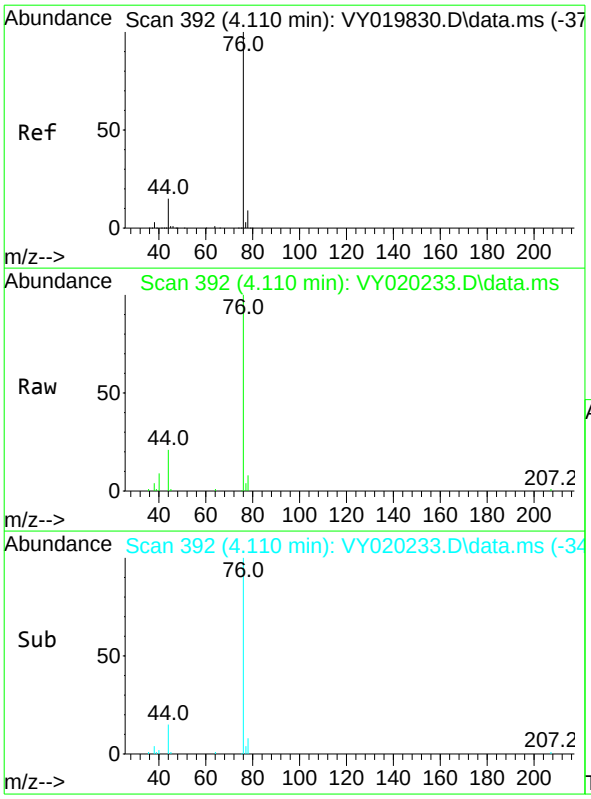


#16
Acetone
Concen: 8.785 ug/l
RT: 3.891 min Scan# 356
Delta R.T. 0.018 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion: 43 Resp: 5109

Ion	Ratio	Lower	Upper
43	100		
58	17.0	31.7	47.5#



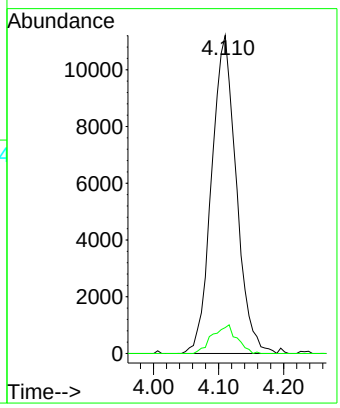


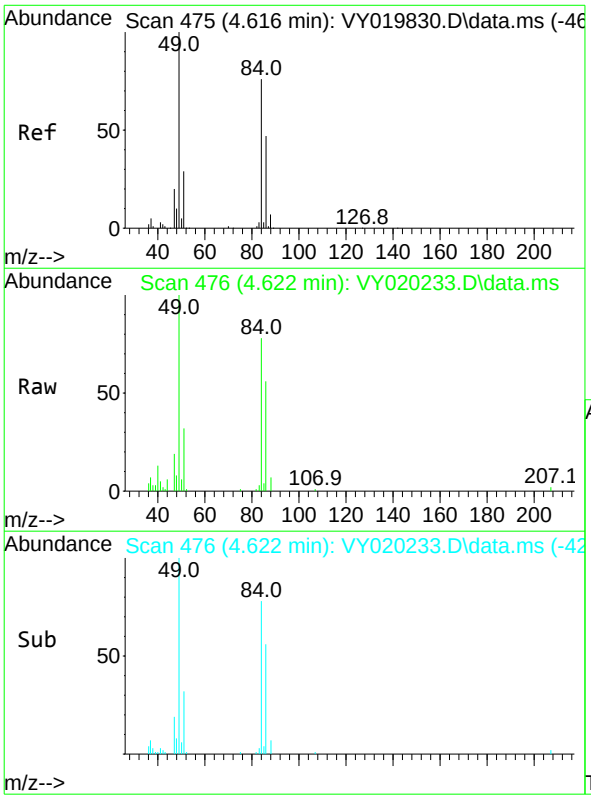
#17
Carbon Disulfide
Concen: 4.111 ug/l
RT: 4.110 min Scan# 39
Delta R.T. 0.006 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Tgt Ion: 76 Resp: 29580

Ion	Ratio	Lower	Upper
76	100		
78	8.1	6.8	10.2

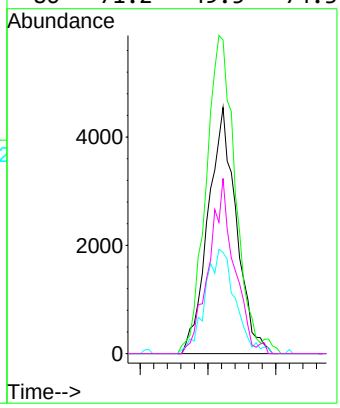




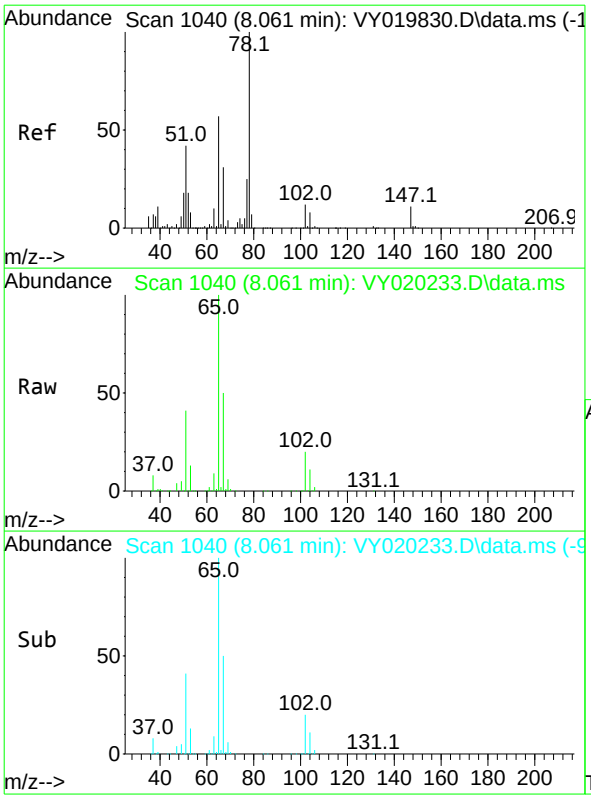
#20
Methylene Chloride
Concen: 5.042 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion: 84 Resp: 13173

Ion	Ratio	Lower	Upper
84	100		
49	127.5	84.4	126.6#
51	41.1	26.0	39.0#
86	71.2	49.5	74.3



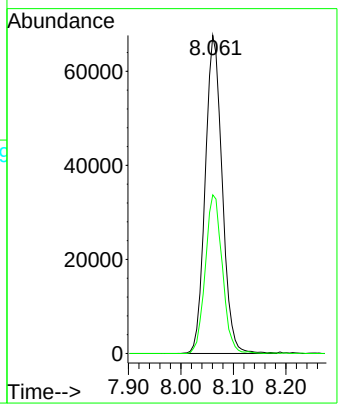
Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

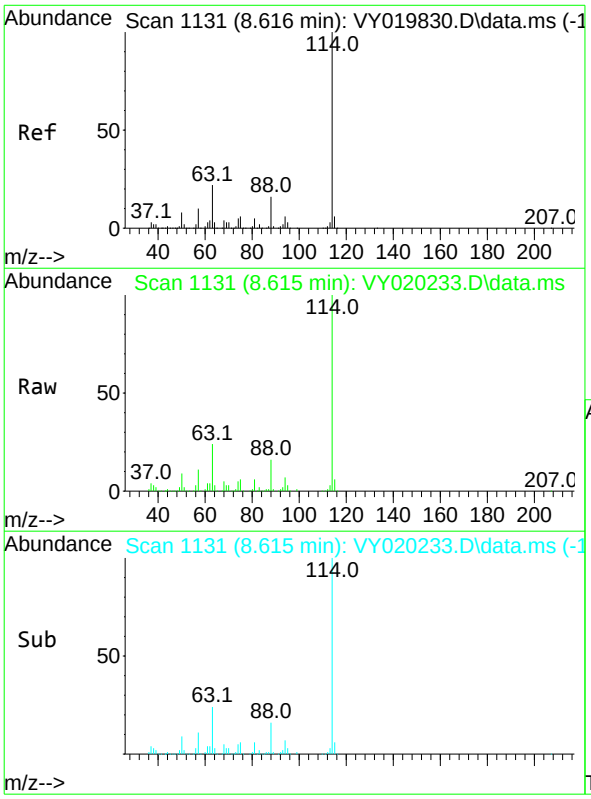


#33
1,2-Dichloroethane-d4
Concen: 60.682 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion: 65 Resp: 151753

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	109.6

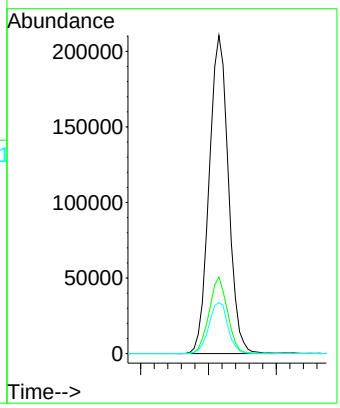


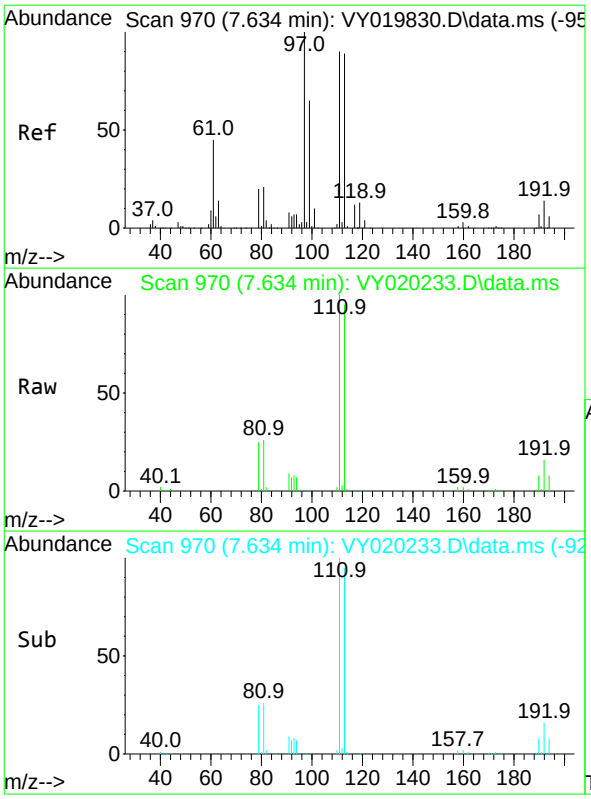


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion:114 Resp: 415302

Ion	Ratio	Lower	Upper
114	100		
63	24.1	0.0	35.0
88	16.0	0.0	27.2



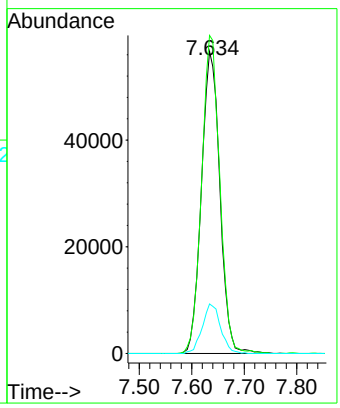


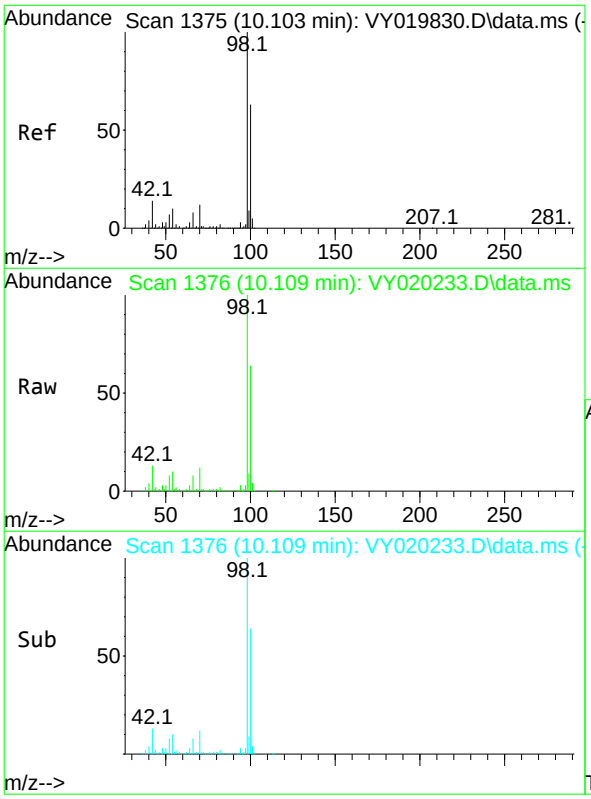
#35
Dibromofluoromethane
Concen: 52.300 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Tgt Ion:113 Resp: 138097

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.2	123.4
192	16.3	15.9	23.9

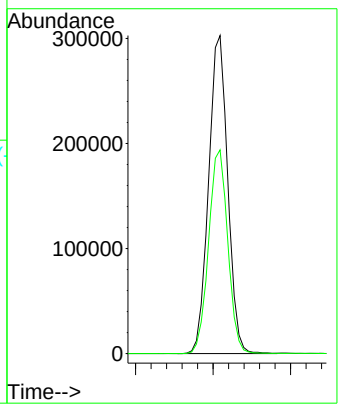


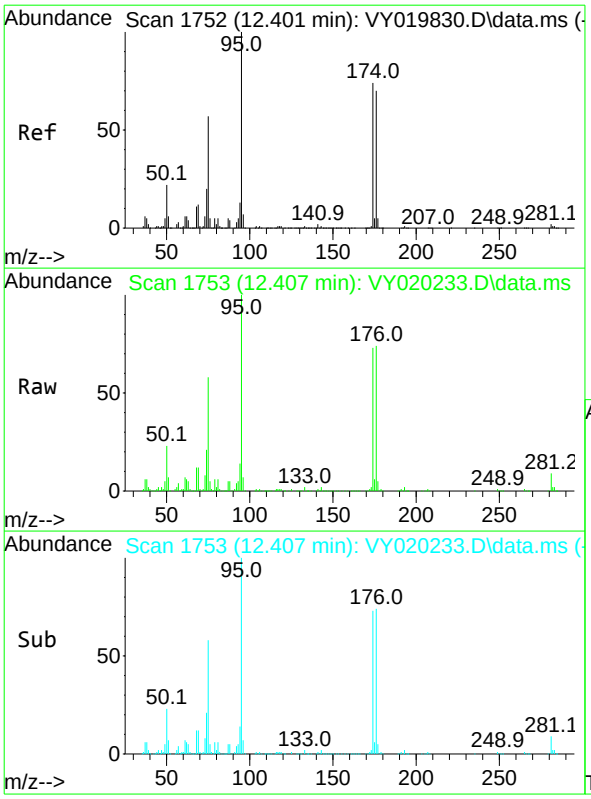


#50
Toluene-d8
Concen: 49.311 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion: 98 Resp: 518276

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.0	78.0



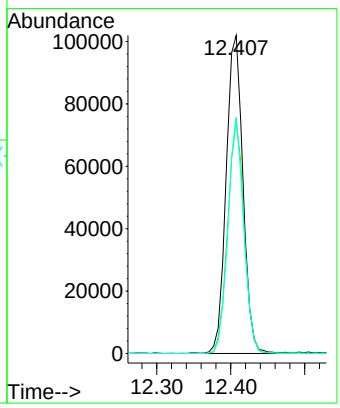


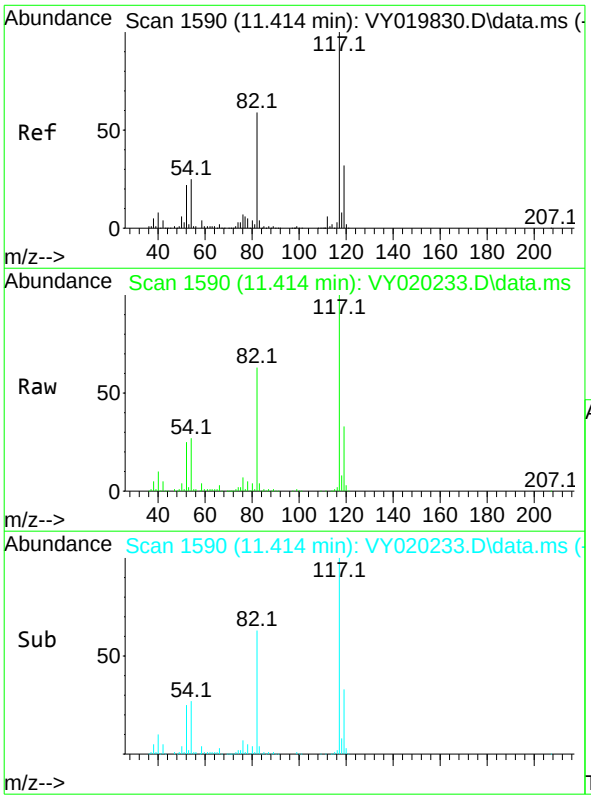
#62
4-Bromofluorobenzene
Concen: 46.962 ug/l
RT: 12.407 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Tgt Ion: 95 Resp: 160323

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	175.6
176	69.6	0.0	171.4

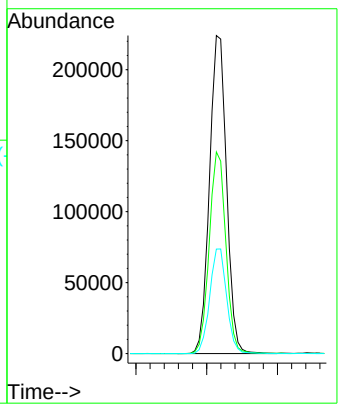


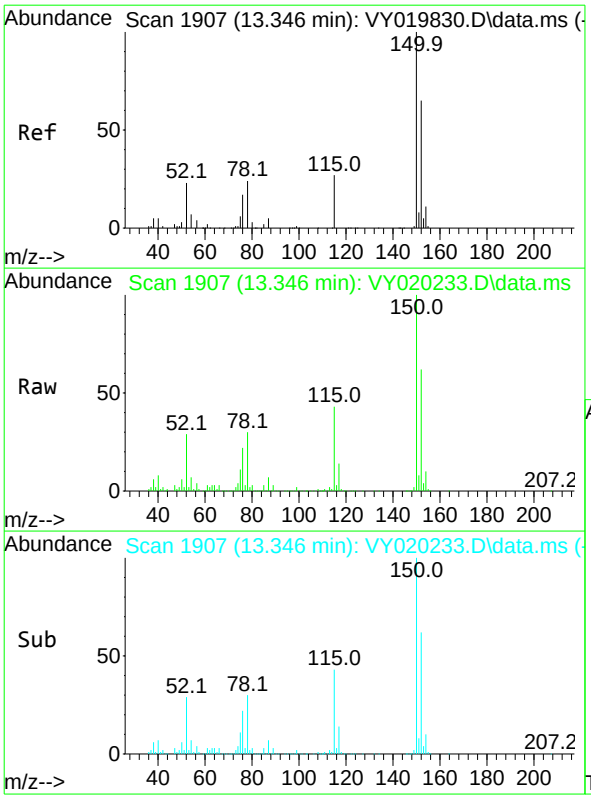


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion:117 Resp: 374550

Ion	Ratio	Lower	Upper
117	100		
82	63.4	42.4	63.6
119	32.9	25.9	38.9



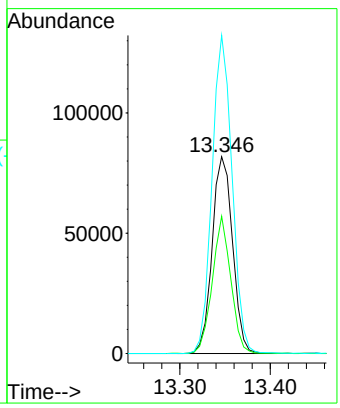


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Tgt Ion:152 Resp: 128433

Ion	Ratio	Lower	Upper
152	100		
115	63.2	28.2	84.7
150	158.7	0.0	345.6



Sample Results: **VY020233.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-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\82Y103024S.M
Title : SW846 8260

Signal : TIC: VY020233.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.110	382	392	403	rBV2	15164	41548	2.89%	0.562%
2	4.622	464	476	485	rBV2	19313	60061	4.18%	0.812%
3	7.634	961	970	976	rBV	195879	470590	32.72%	6.366%
4	7.707	976	982	994	rVB	289307	669792	46.57%	9.060%
5	8.061	1030	1040	1053	rBV	190065	427315	29.71%	5.780%
6	8.615	1119	1131	1145	rBV	532669	1046034	72.73%	14.150%
7	10.109	1368	1376	1388	rBV	816255	1438304	100.00%	19.456%
8	11.414	1583	1590	1600	rBV	765257	1269686	88.28%	17.175%
9	12.407	1744	1753	1763	rBV2	571666	940488	65.39%	12.722%
10	13.346	1900	1907	1915	rBV	584463	898583	62.48%	12.155%
11	13.889	1989	1996	2003	rVB2	78299	130057	9.04%	1.759%

Sum of corrected areas: 7392458

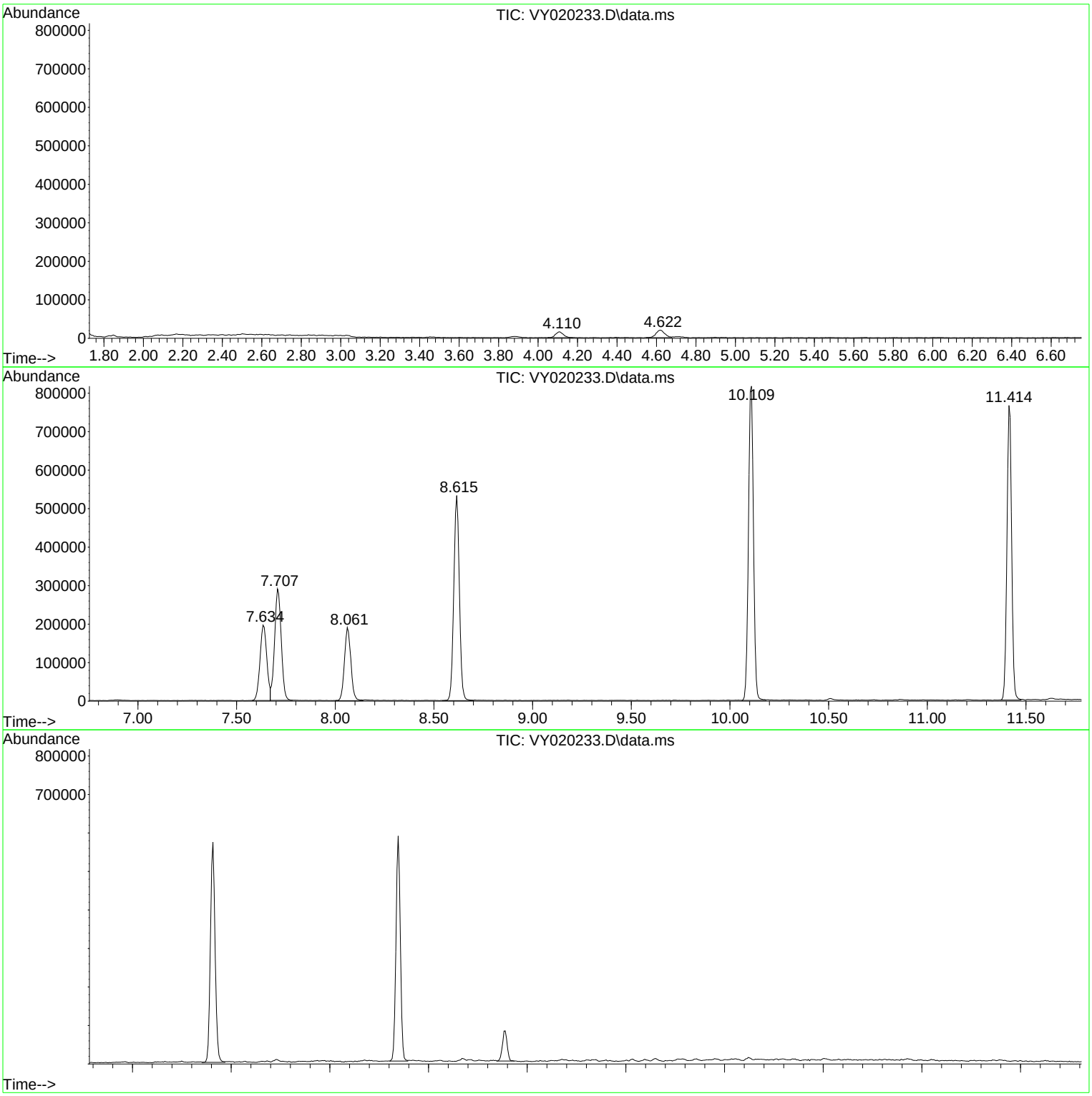
Sample Results: **VY020233.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY020233.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.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\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.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\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Time: Nov 08 22:20:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	200262	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	428332	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	399084	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	136217	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	157720	63.103	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 126.200%			
35) Dibromofluoromethane	7.634	113	140994	51.773	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.540%			
50) Toluene-d8	10.103	98	531619	49.042	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.080%			
62) 4-Bromofluorobenzene	12.408	95	167289	47.512	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 95.020%			
Target Compounds						Qvalue
16) Acetone	3.885	43	4260	7.329	ug/l #	81
20) Methylene Chloride	4.616	84	12182	4.665	ug/l #	82

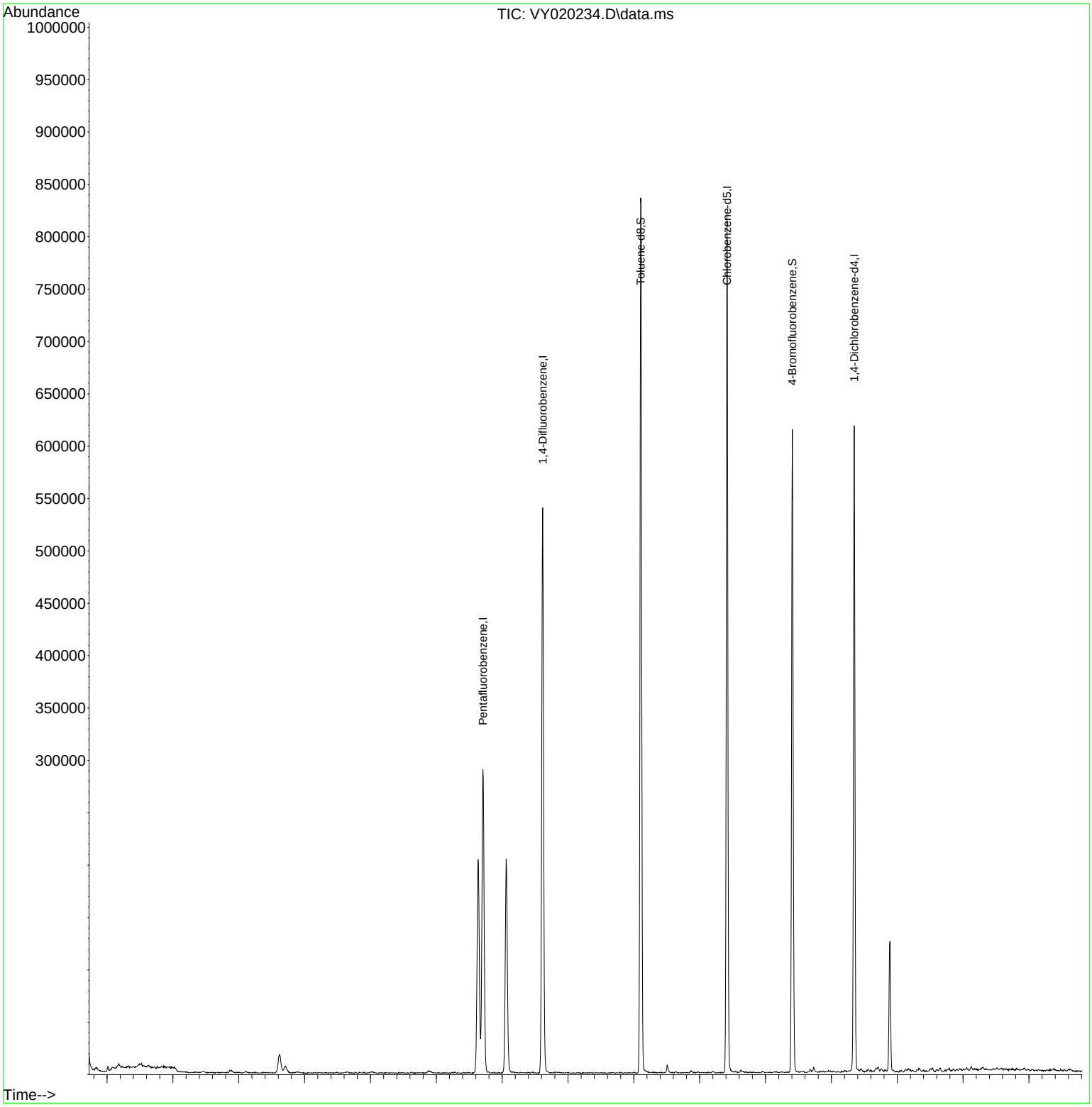
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VY020234.D**

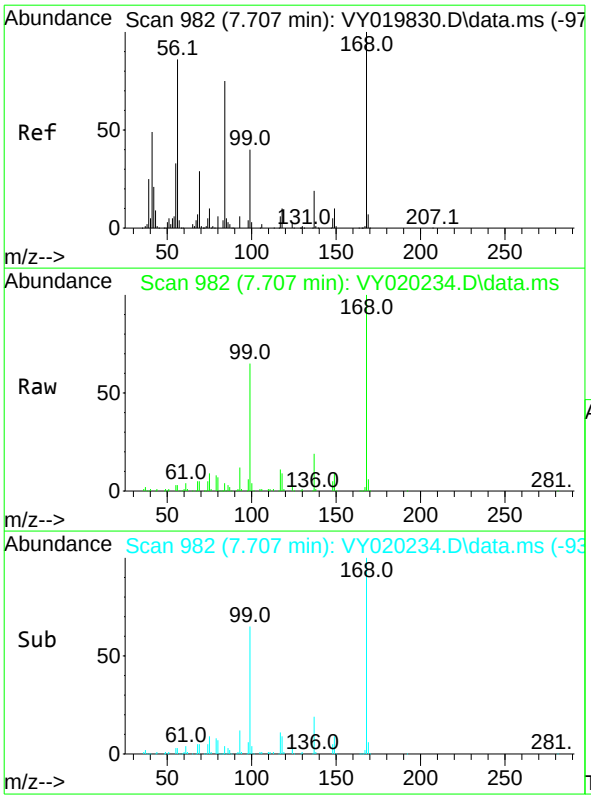
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Time: Nov 08 22:20:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



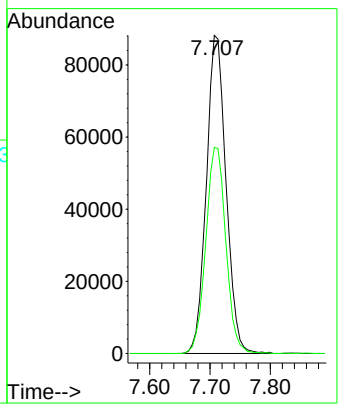
Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

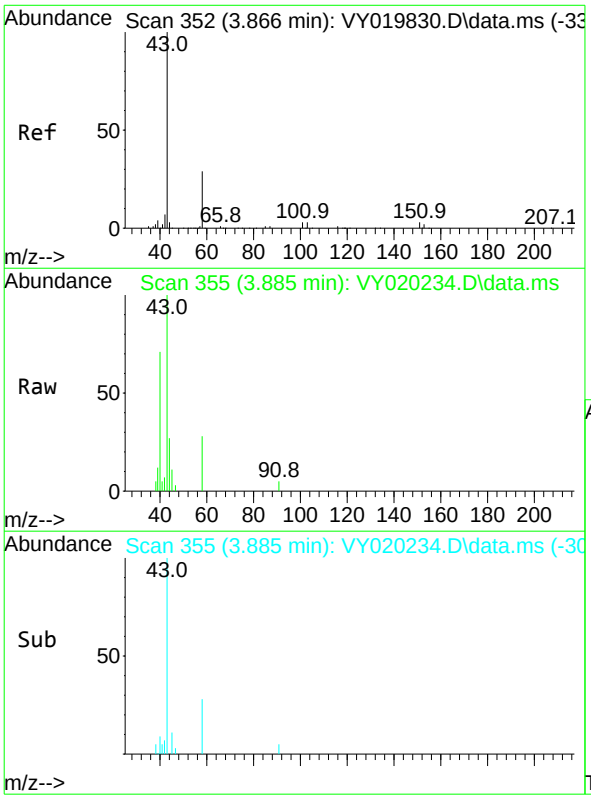


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion:168 Resp: 200262

Ion	Ratio	Lower	Upper
168	100		
99	64.8	39.1	58.7#

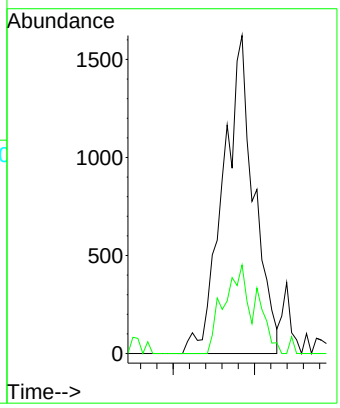


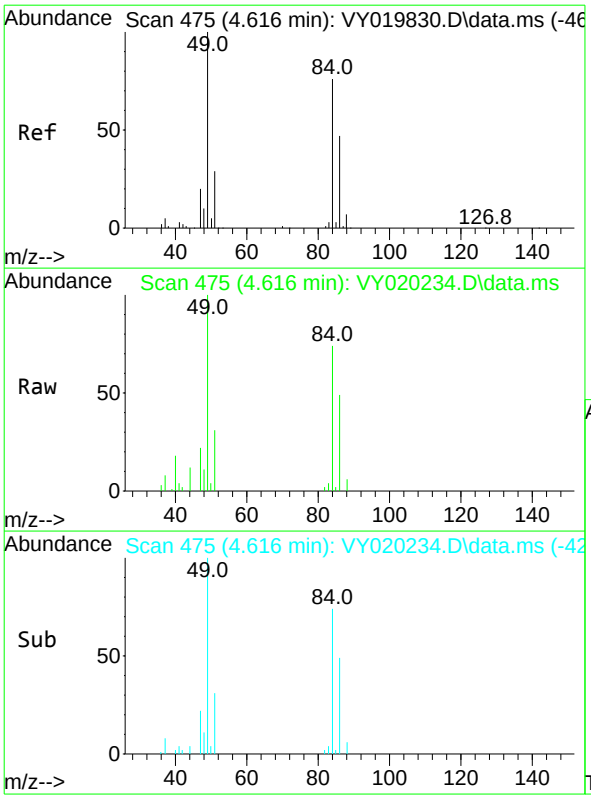


#16
Acetone
Concen: 7.329 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion: 43 Resp: 4260

Ion	Ratio	Lower	Upper
43	100		
58	27.9	31.7	47.5#



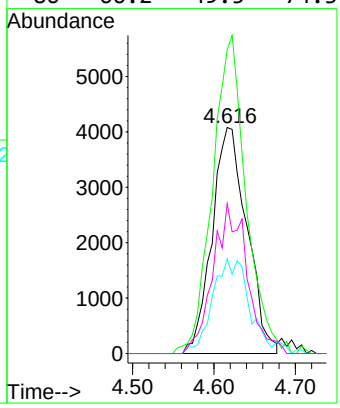


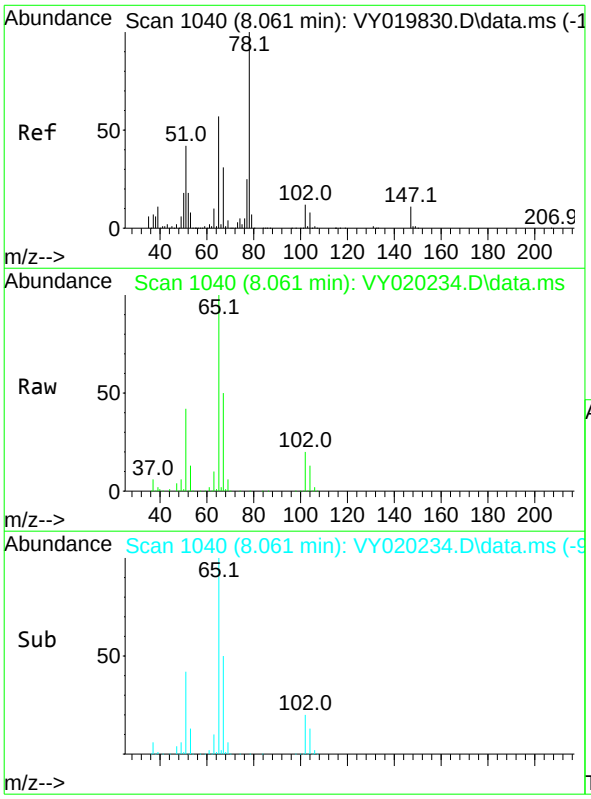
#20
Methylene Chloride
Concen: 4.665 ug/l
RT: 4.616 min Scan# 47
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Tgt Ion: 84 Resp: 12182

Ion	Ratio	Lower	Upper
84	100		
49	131.8	84.4	126.6#
51	41.9	26.0	39.0#
86	66.2	49.5	74.3

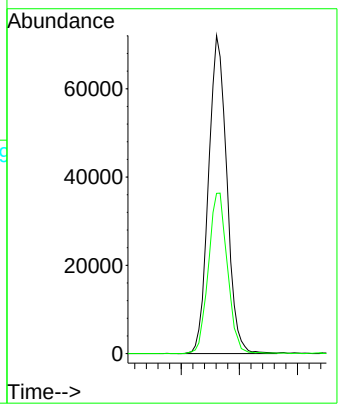


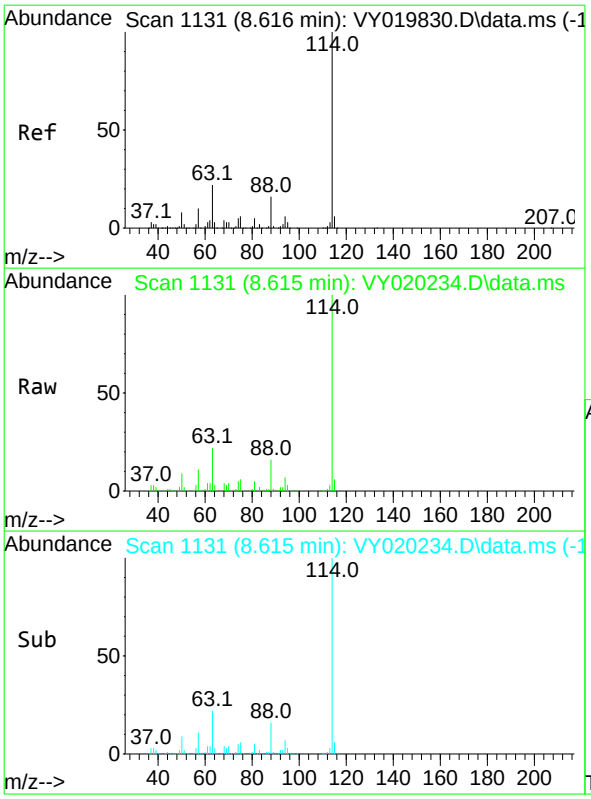


#33
1,2-Dichloroethane-d4
Concen: 63.103 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion: 65 Resp: 157720

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	109.6



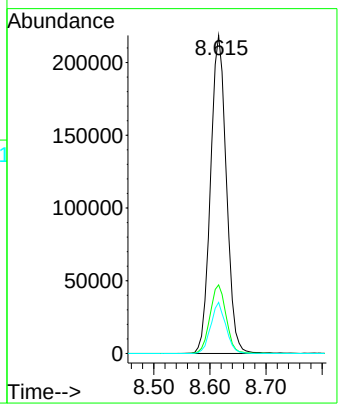


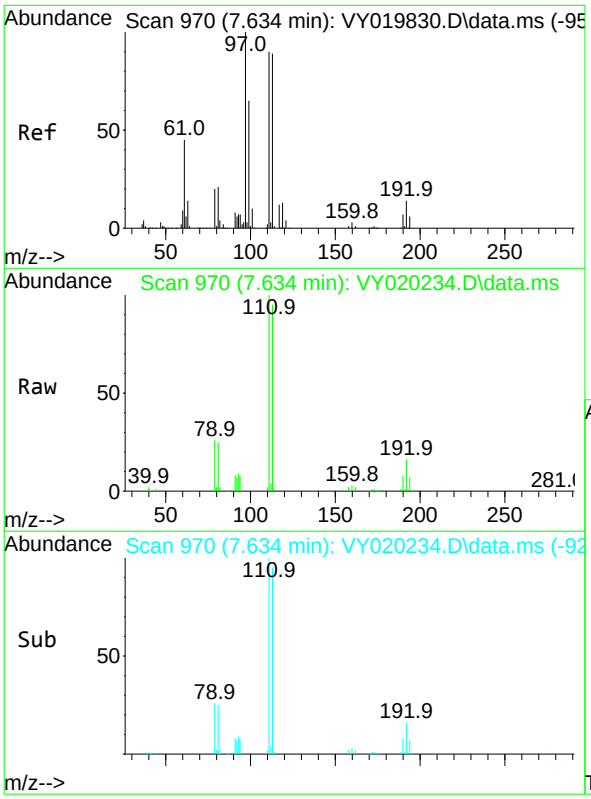
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Tgt Ion:114 Resp: 428332

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	35.0
88	16.1	0.0	27.2

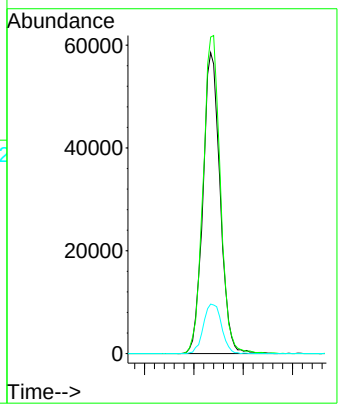




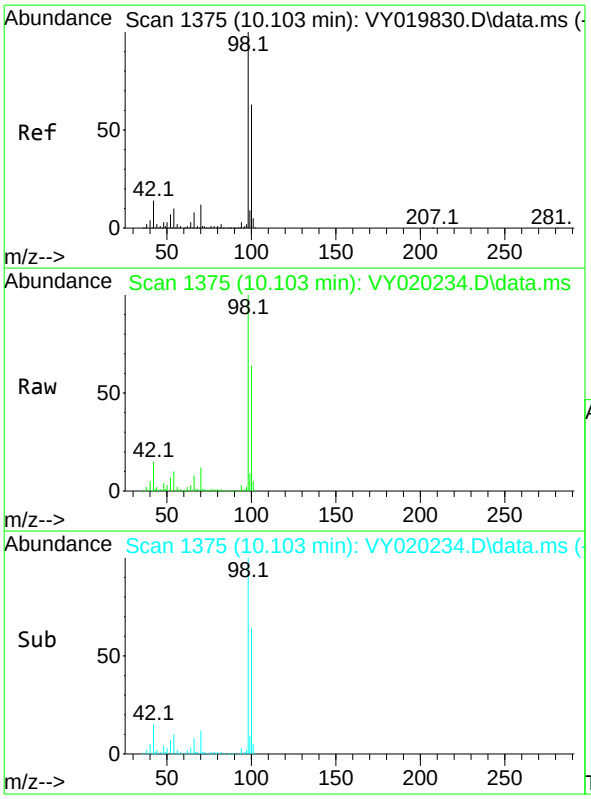
#35
Dibromofluoromethane
Concen: 51.773 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion:113 Resp: 140994

Ion	Ratio	Lower	Upper
113	100		
111	106.2	82.2	123.4
192	17.5	15.9	23.9



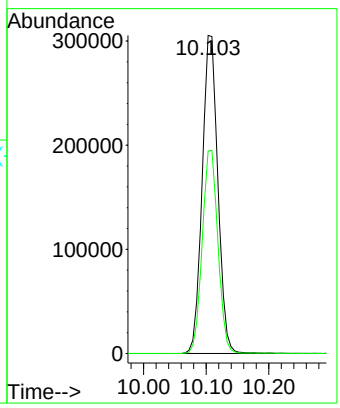
Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

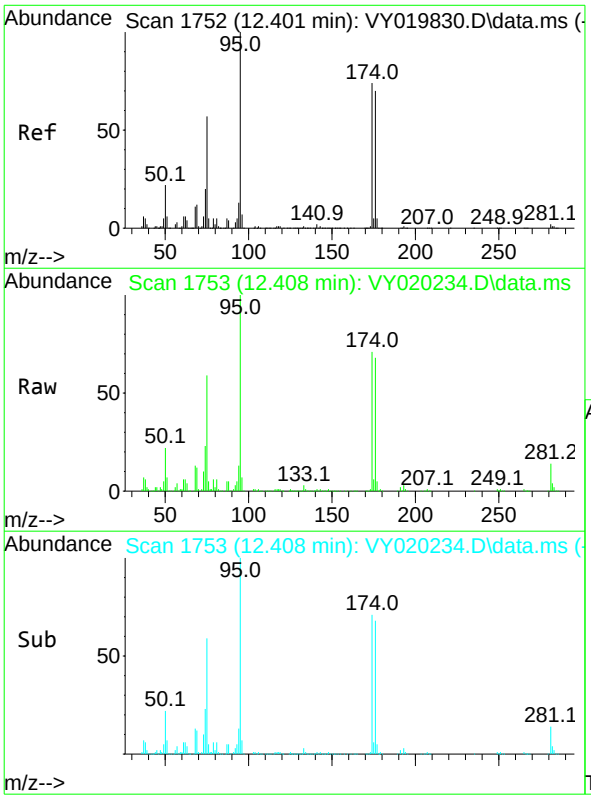


#50
Toluene-d8
Concen: 49.042 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion: 98 Resp: 531619

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.0	78.0

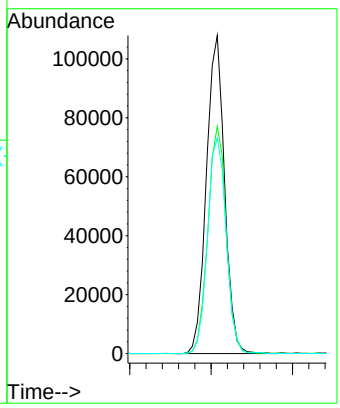


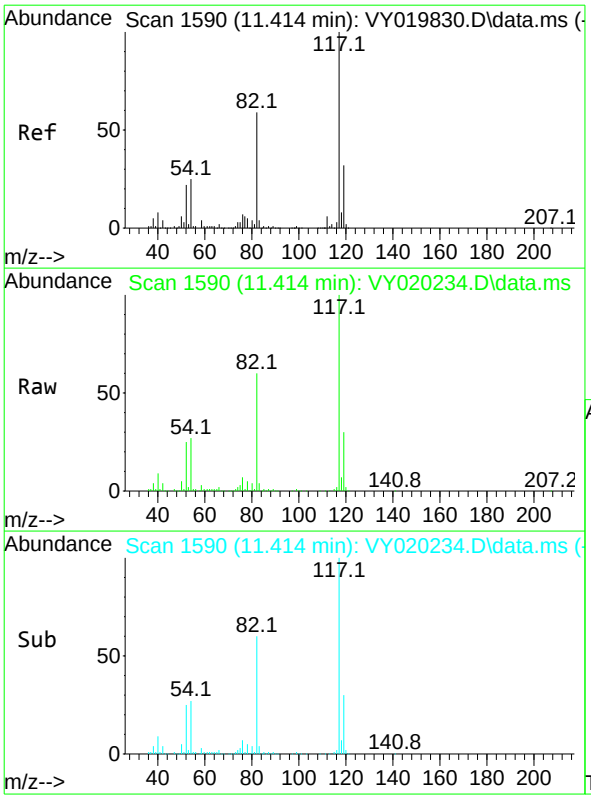


#62
4-Bromofluorobenzene
Concen: 47.512 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion: 95 Resp: 167289

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	175.6
176	69.2	0.0	171.4



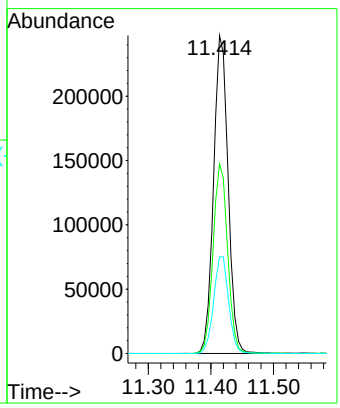


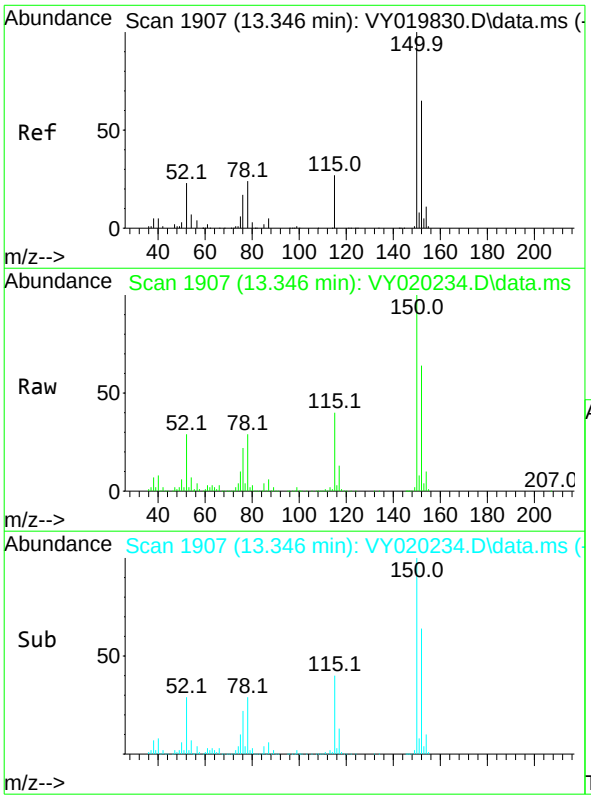
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Tgt Ion:117 Resp: 399084

Ion	Ratio	Lower	Upper
117	100		
82	59.6	42.4	63.6
119	30.3	25.9	38.9

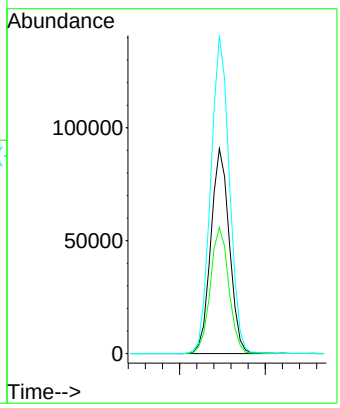




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion:152 Resp: 136217

Ion	Ratio	Lower	Upper
152	100		
115	61.4	28.2	84.7
150	156.2	0.0	345.6



Sample Results: **VY020234.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-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\82Y103024S.M
Title : SW846 8260

Signal : TIC: VY020234.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	464	475	484	rBV	17653	55631	3.77%	0.718%
2	4.702	484	489	499	rVB3	6460	19549	1.33%	0.252%
3	7.634	957	970	976	rBV	204041	494887	33.55%	6.387%
4	7.707	976	982	993	rVB	289449	667907	45.28%	8.621%
5	8.061	1029	1040	1054	rBV	204433	454072	30.78%	5.861%
6	8.615	1121	1131	1142	rBV	539980	1064455	72.16%	13.739%
7	10.103	1366	1375	1388	rBV	835749	1475096	100.00%	19.039%
8	11.414	1580	1590	1600	rBV	819802	1332969	90.36%	17.204%
9	12.408	1745	1753	1764	rBV2	613834	1041542	70.61%	13.443%
10	13.346	1898	1907	1914	rBV	616011	938495	63.62%	12.113%
11	13.889	1988	1996	2003	rBV2	124067	203199	13.78%	2.623%

Sum of corrected areas: 7747802

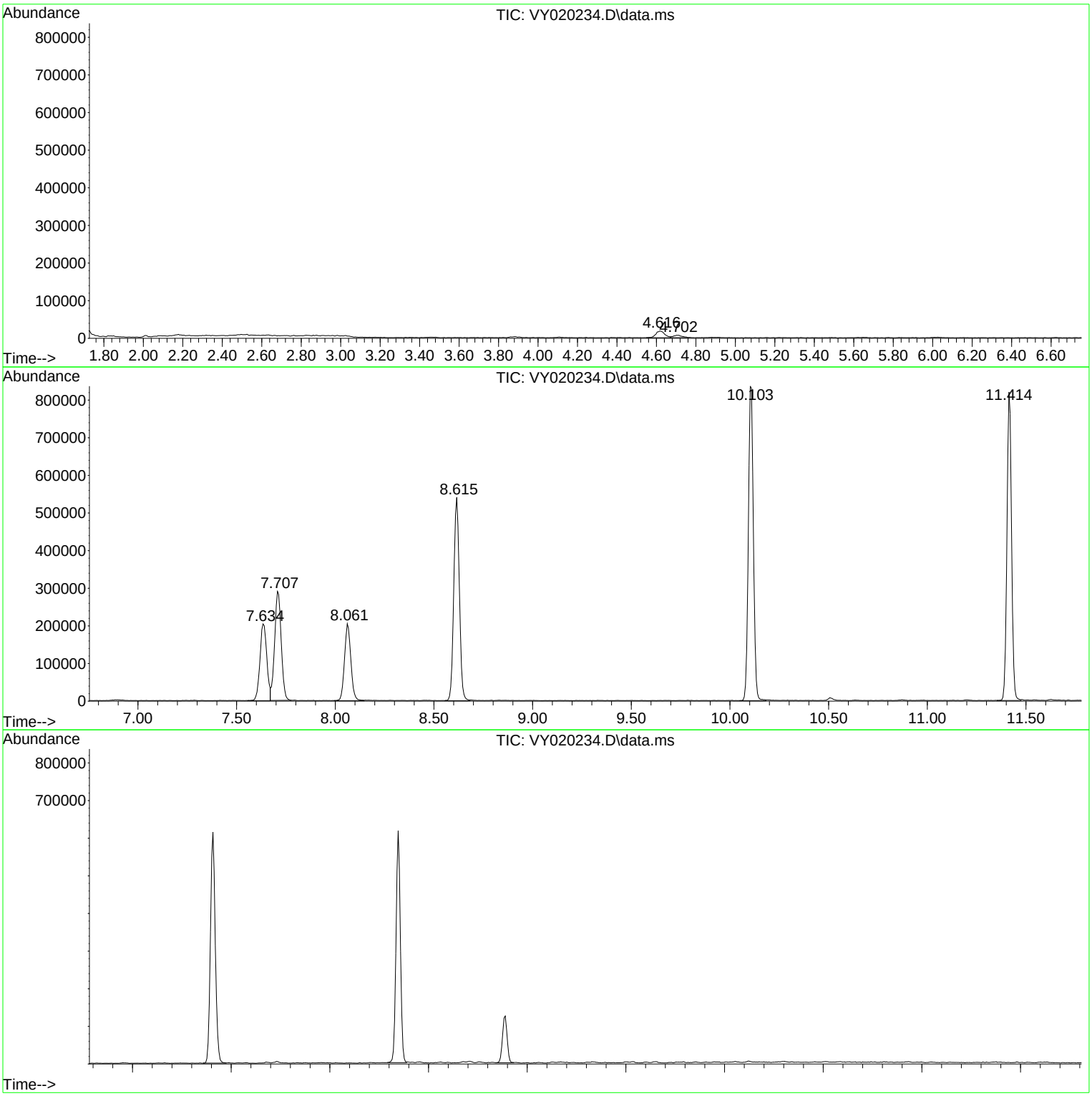
Sample Results: **VY020234.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY020234.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.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\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.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\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Time: Nov 15 00:48:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

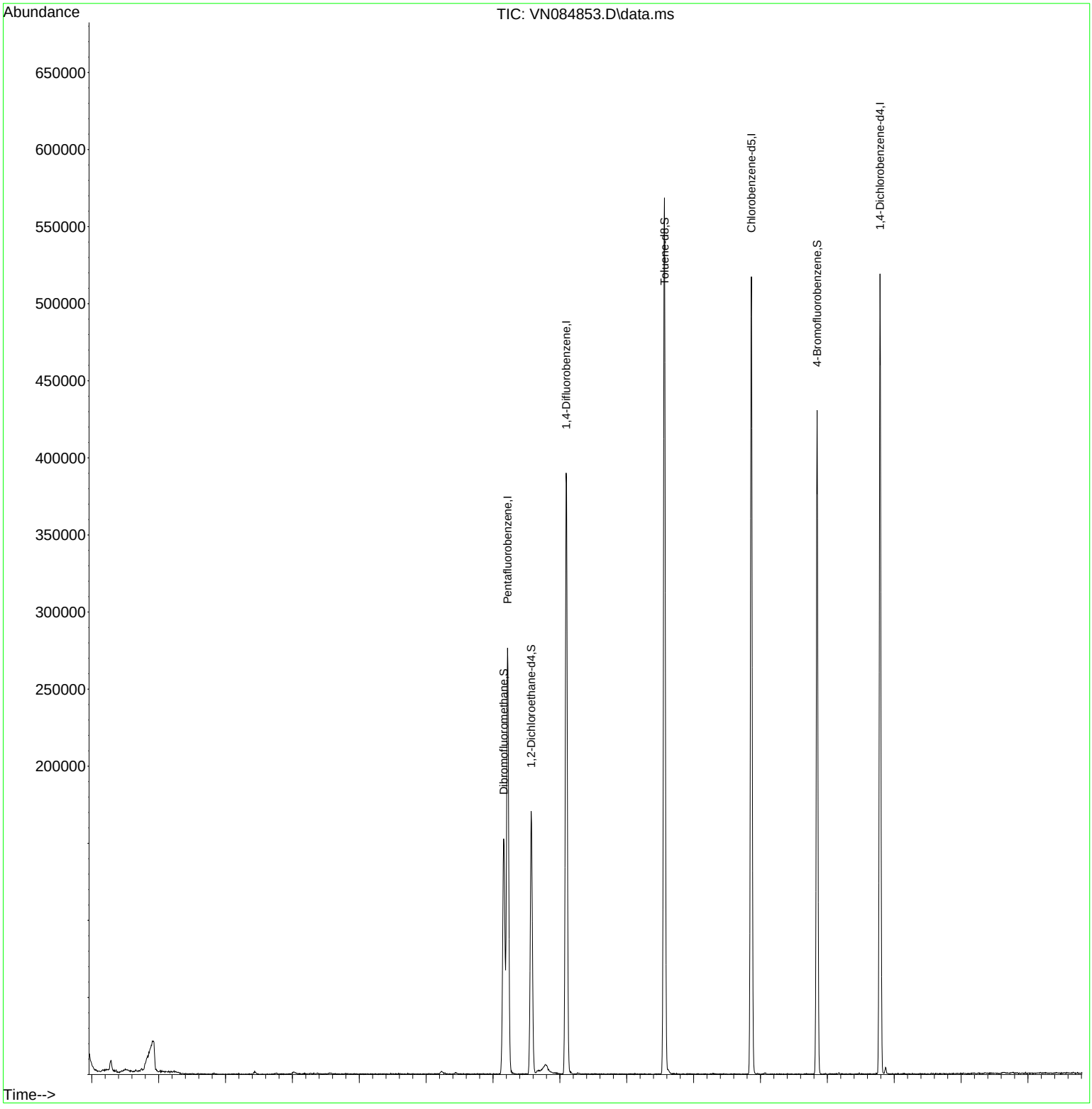
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	203676	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	345476	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	299825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136300	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	140566	47.783	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.560%		
35) Dibromofluoromethane	8.159	113	112509	48.113	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.220%		
50) Toluene-d8	10.565	98	397675	46.166	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.340%		
62) 4-Bromofluorobenzene	12.847	95	148708	46.192	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.380%		
Target Compounds						Qvalue

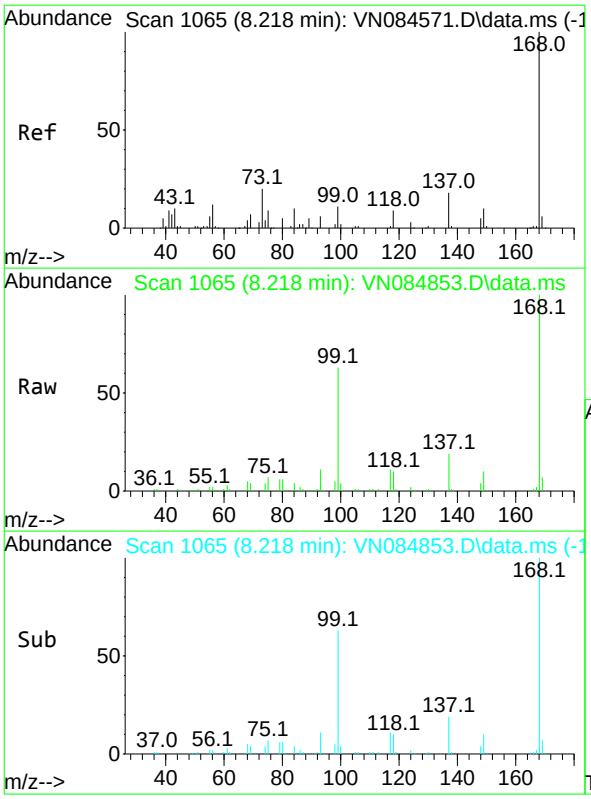
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Time: Nov 15 00:48:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



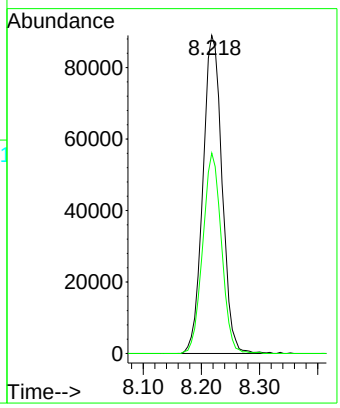


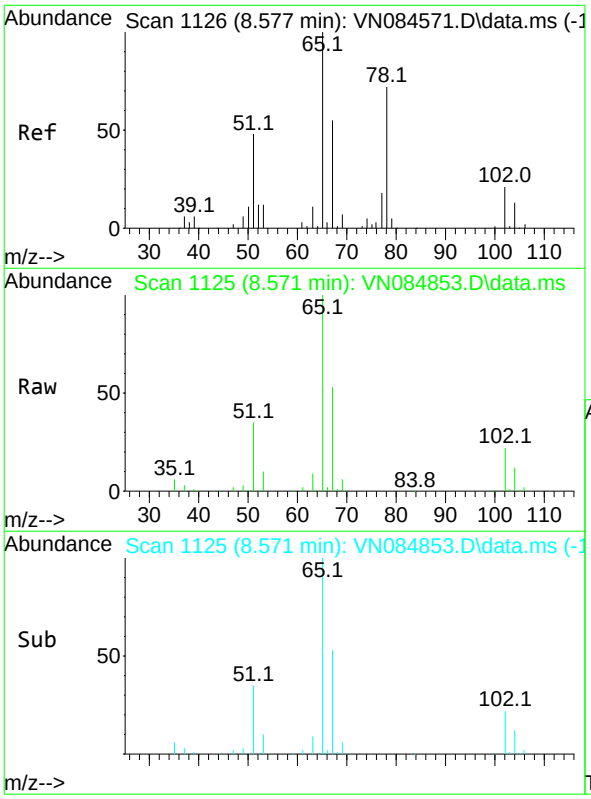
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Tgt Ion:168 Resp: 203676

Ion	Ratio	Lower	Upper
168	100		
99	63.0	54.2	81.2

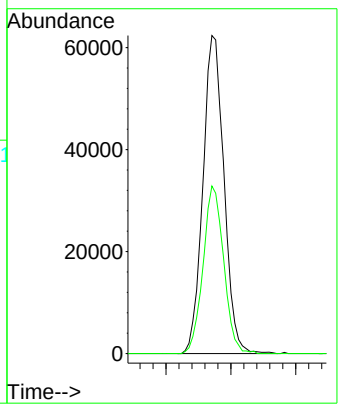


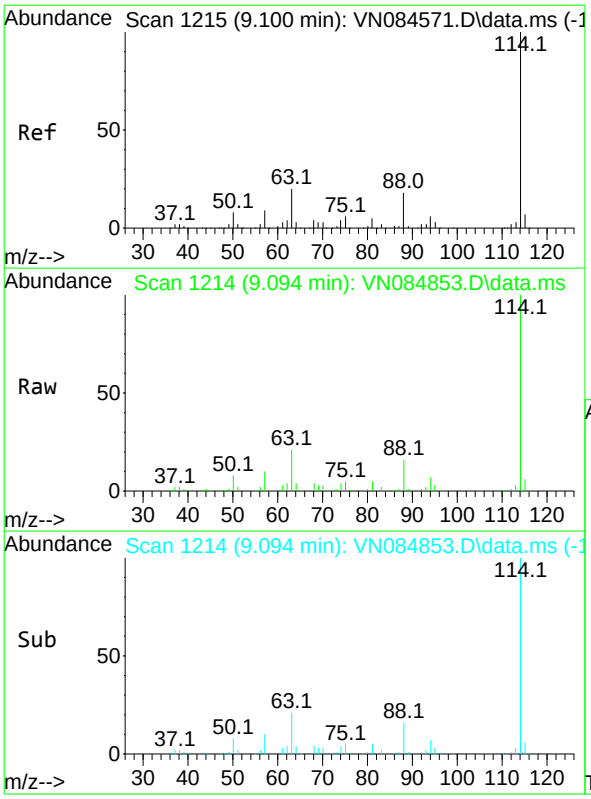


#33
1,2-Dichloroethane-d4
Concen: 47.783 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Tgt Ion: 65 Resp: 140566

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	102.0



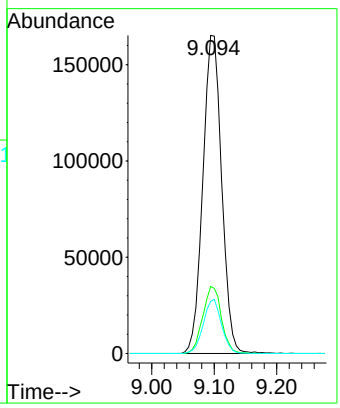


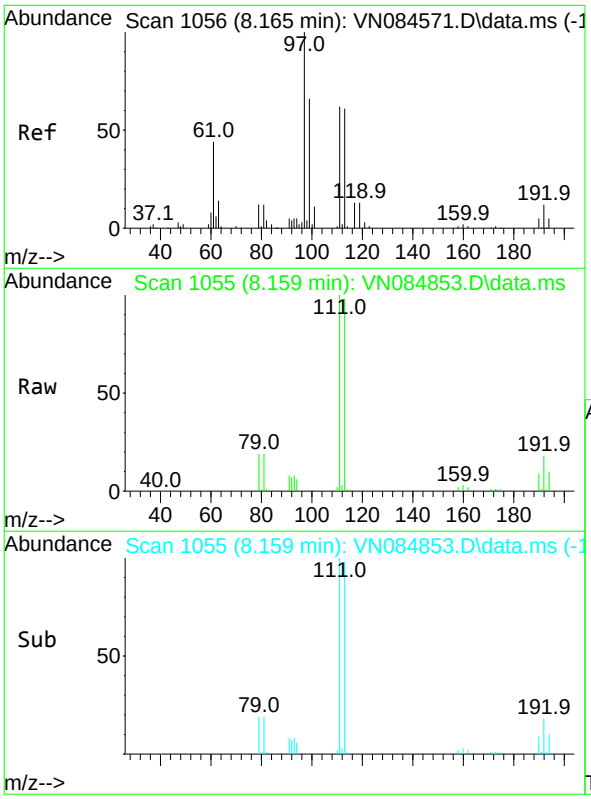
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Tgt Ion:114 Resp: 345476

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	43.8
88	16.4	0.0	31.6

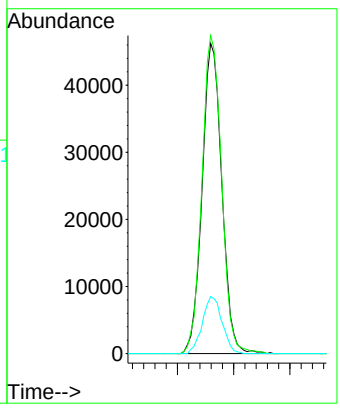


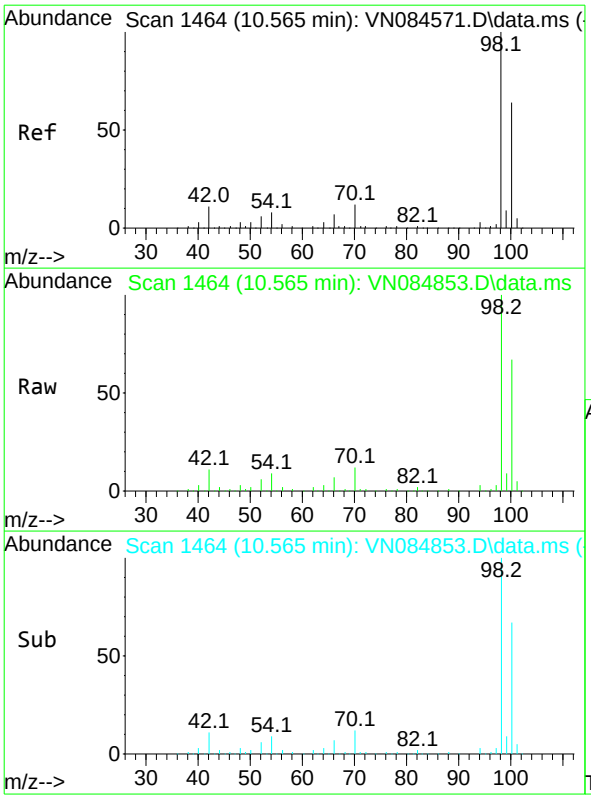


#35
Dibromofluoromethane
Concen: 48.113 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Tgt Ion:113 Resp: 112509

Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.3	124.9
192	18.4	13.5	20.3



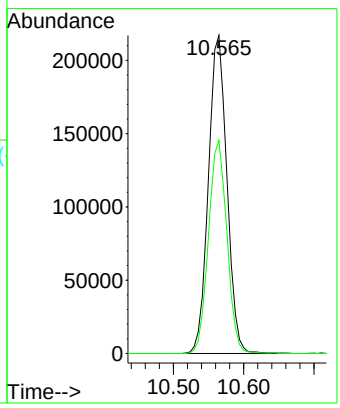


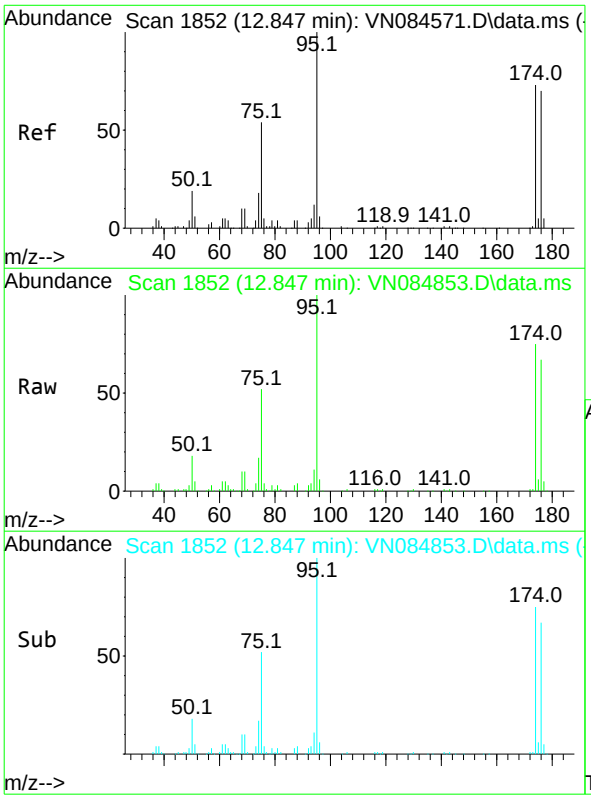
#50
Toluene-d8
Concen: 46.166 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Tgt Ion: 98 Resp: 397675

Ion	Ratio	Lower	Upper
98	100		
100	66.6	52.7	79.1

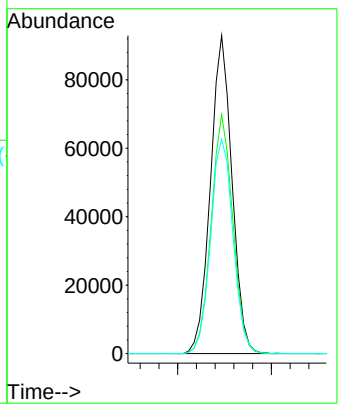


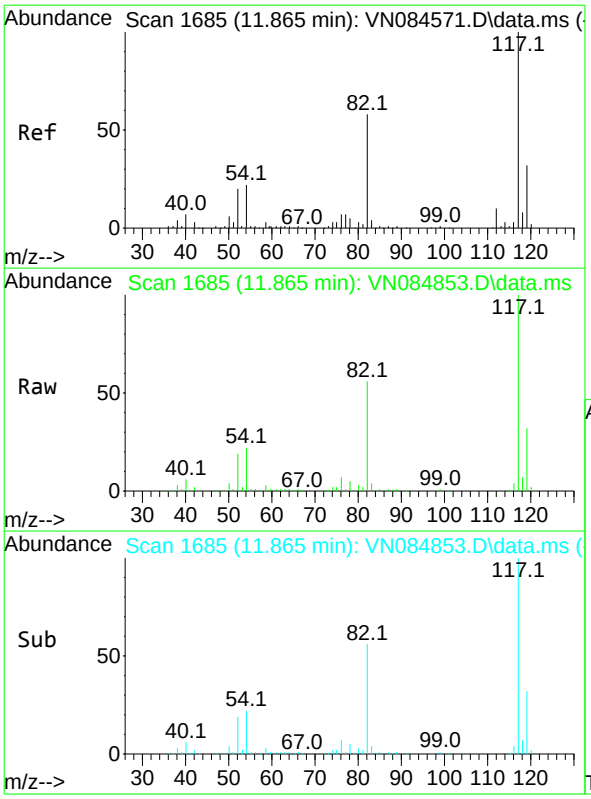


#62
4-Bromofluorobenzene
Concen: 46.192 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Tgt Ion: 95 Resp: 148708

Ion	Ratio	Lower	Upper
95	100		
174	75.7	0.0	145.2
176	70.0	0.0	140.0



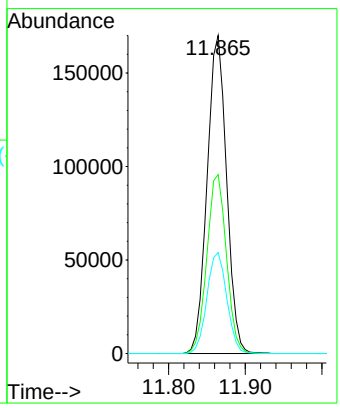


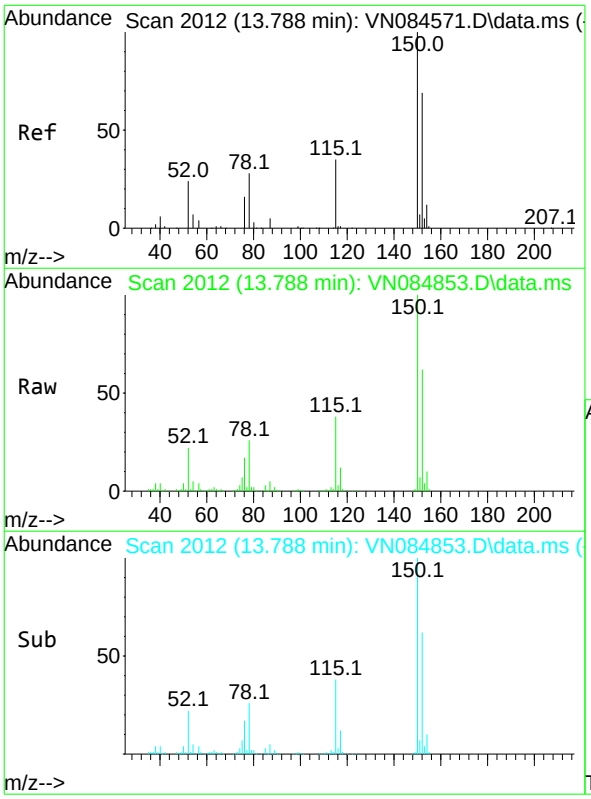
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Tgt Ion:117 Resp: 299825

Ion	Ratio	Lower	Upper
117	100		
82	56.3	47.2	70.8
119	31.8	25.4	38.0

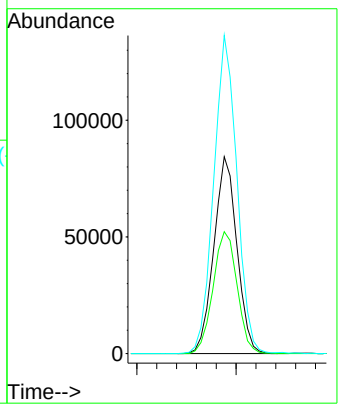




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Tgt Ion:152 Resp: 136300

Ion	Ratio	Lower	Upper
152	100		
115	64.3	31.3	93.9
150	162.3	0.0	349.8



Sample Results: **VN084853.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

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\82N103024W.M
Title : SW846 8260

Signal : TIC: VN084853.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.289	52	57	64	rVB4	7051	13864	1.32%	0.242%
2	2.836	139	150	151	rBV4	9011	21839	2.08%	0.381%
3	2.906	151	162	163	rBV5	10463	25958	2.48%	0.453%
4	8.159	1045	1055	1060	rBV	152805	372002	35.47%	6.491%
5	8.218	1060	1065	1074	rVB	275210	605931	57.78%	10.572%
6	8.571	1117	1125	1135	rBV	170467	375585	35.82%	6.553%
7	9.094	1205	1214	1225	rBV	389991	807012	76.96%	14.081%
8	10.565	1455	1464	1472	rBV	568251	1048669	100.00%	18.297%
9	11.865	1677	1685	1696	rBV	517163	916171	87.37%	15.985%
10	12.847	1844	1852	1861	rBV	430564	699970	66.75%	12.213%
11	13.788	2005	2012	2022	rVB	518697	844413	80.52%	14.733%

Sum of corrected areas: 5731414

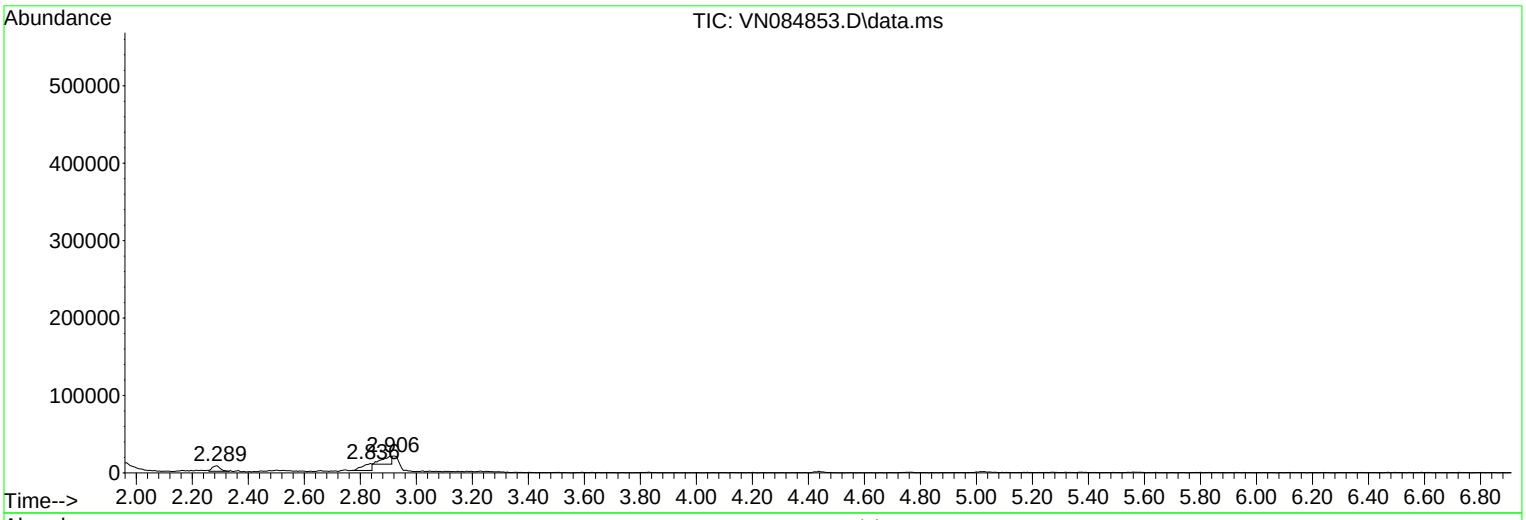
Sample Results: **VN084853.D**

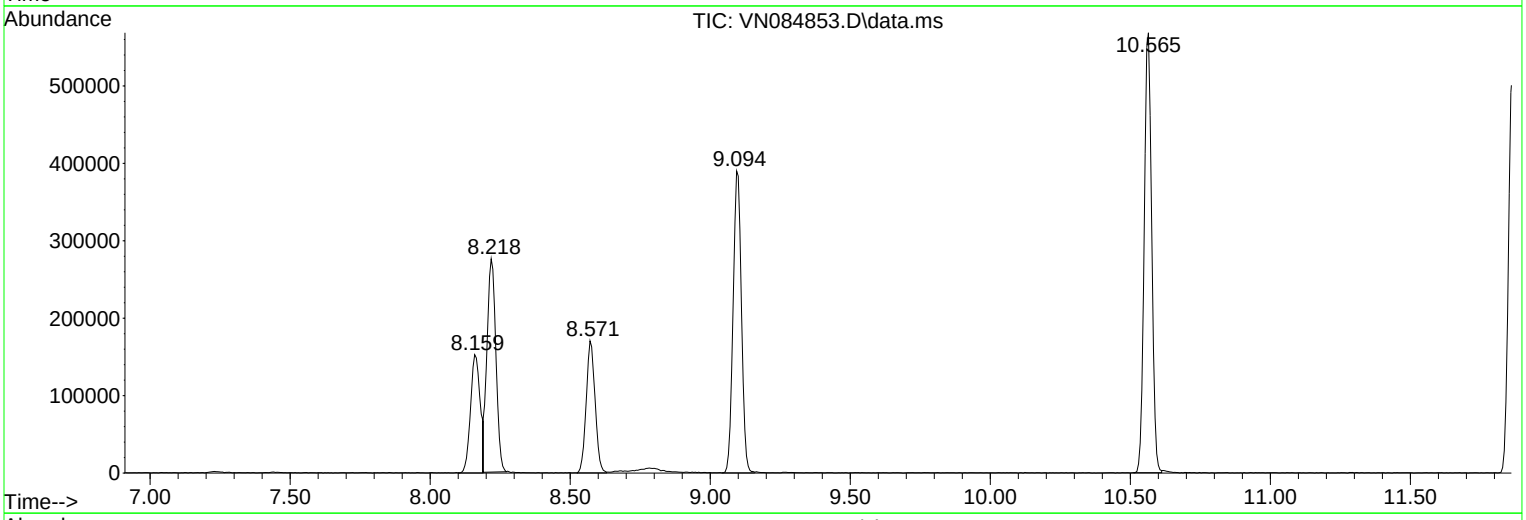
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

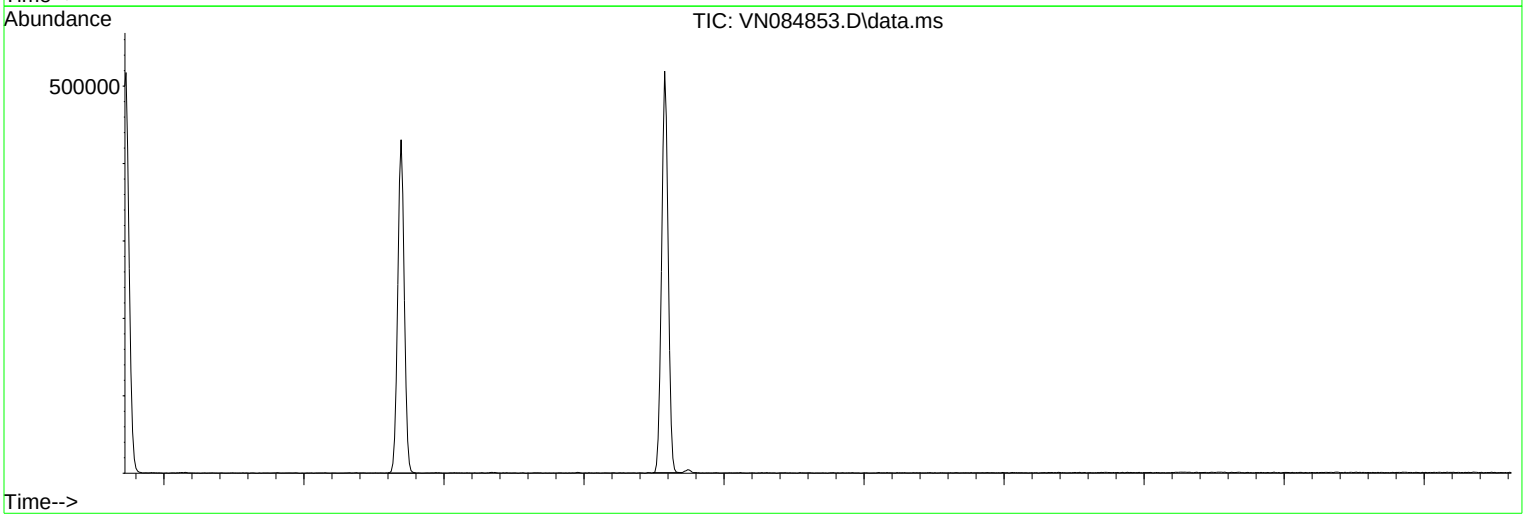
Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VN084853.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Time: Nov 15 00:48:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	193262	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	335586	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	288886	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136820	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134514	48.189	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.380%		
35) Dibromofluoromethane	8.159	113	107135	47.165	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.320%		
50) Toluene-d8	10.565	98	384699	45.975	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.960%		
62) 4-Bromofluorobenzene	12.847	95	147170	47.061	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.120%		

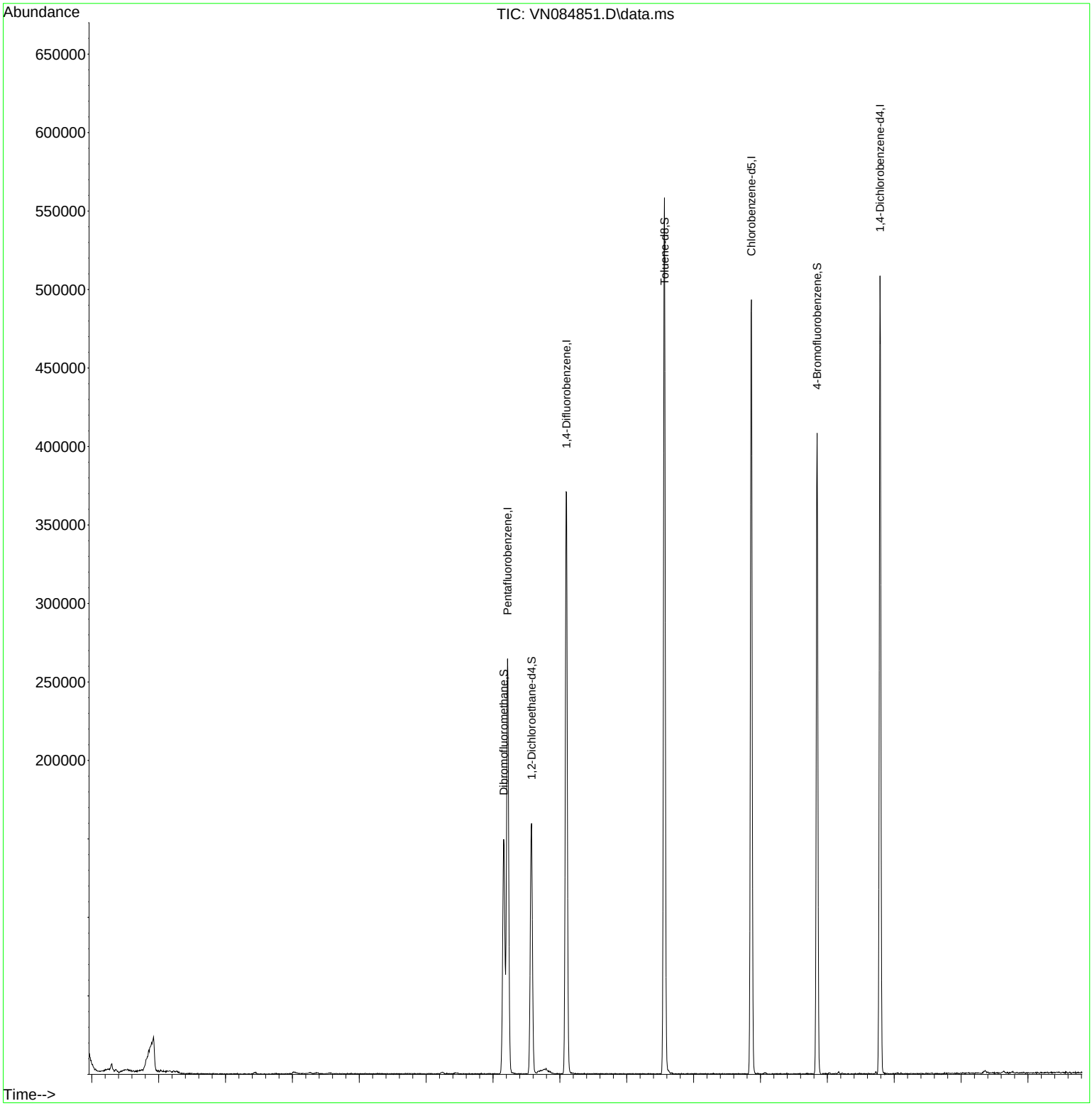
Target Compounds Qvalue

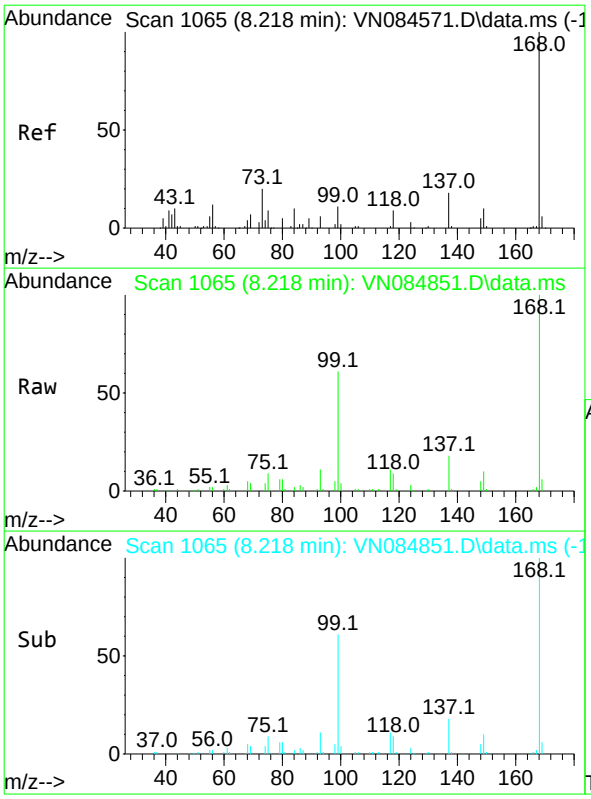
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Time: Nov 15 00:48:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



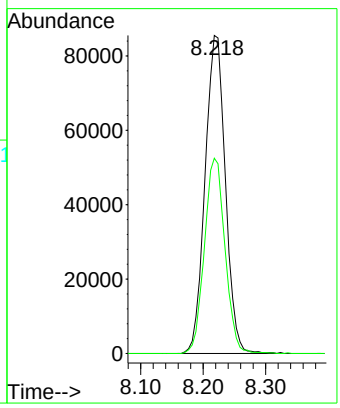


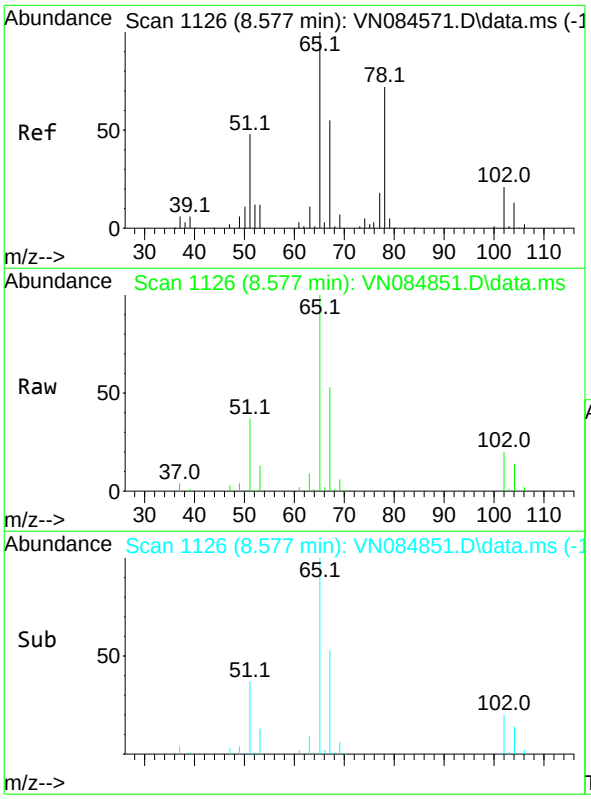
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Tgt Ion:168 Resp: 193262

Ion	Ratio	Lower	Upper
168	100		
99	61.4	54.2	81.2

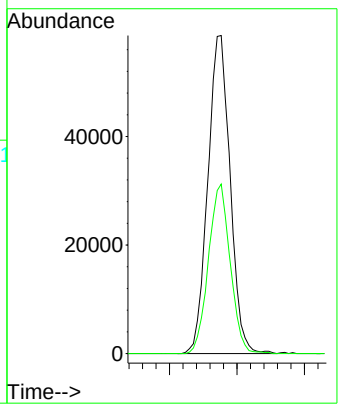


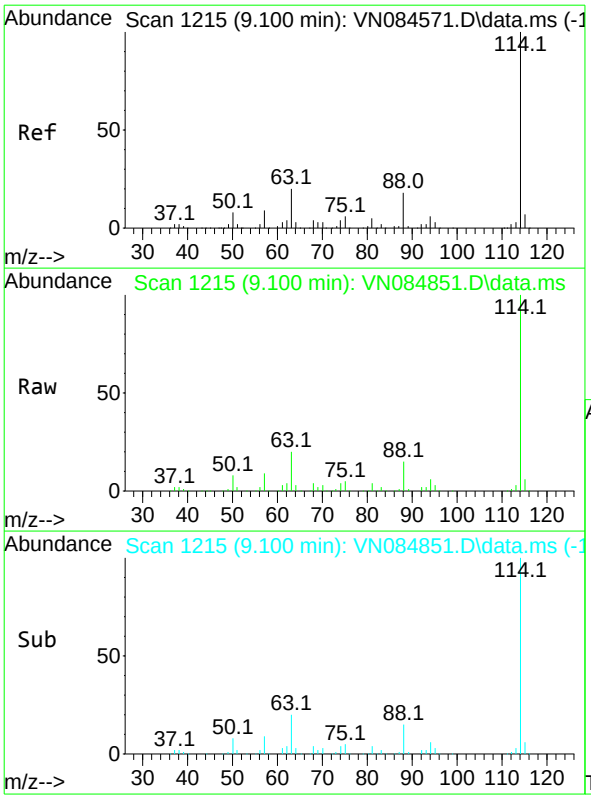


#33
1,2-Dichloroethane-d4
Concen: 48.189 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Tgt Ion: 65 Resp: 134514

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	102.0



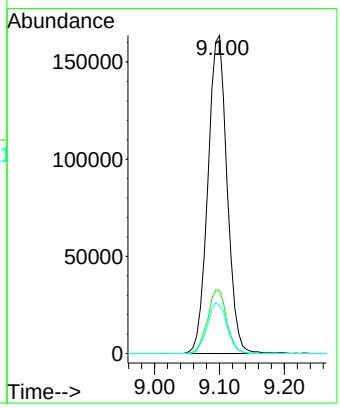


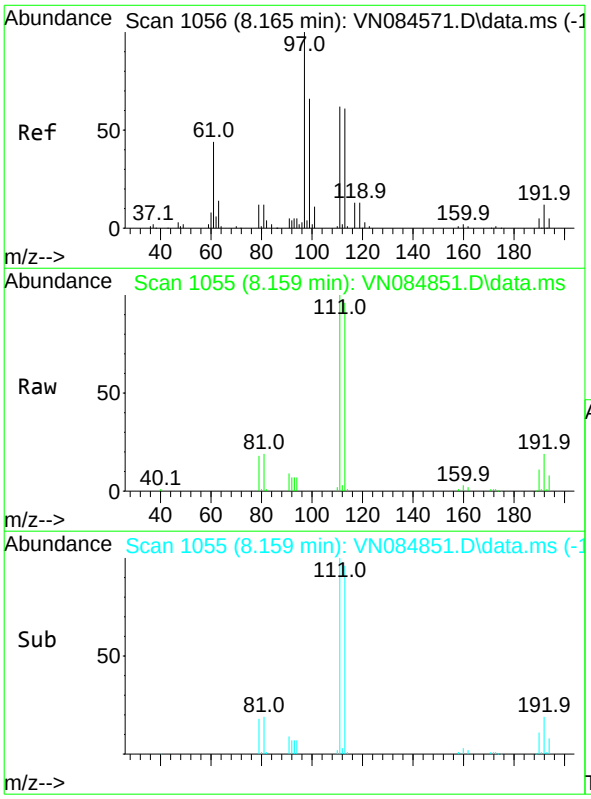
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Tgt Ion:114 Resp: 335586

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	43.8
88	15.1	0.0	31.6

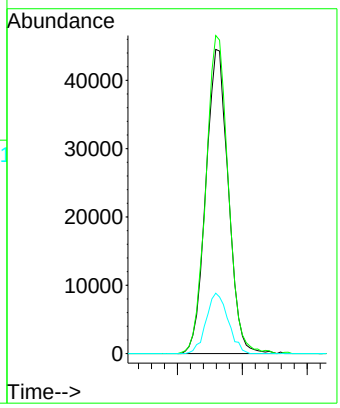


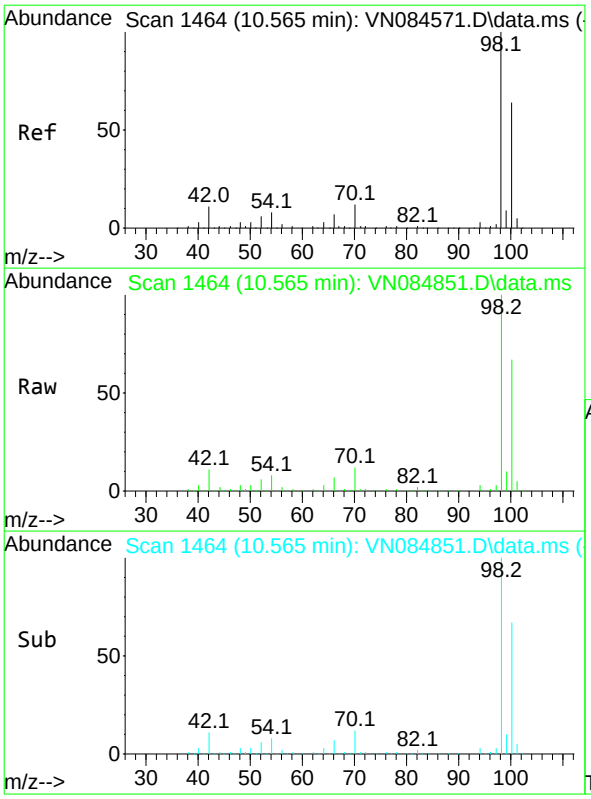


#35
Dibromofluoromethane
Concen: 47.165 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Tgt Ion:113 Resp: 107135

Ion	Ratio	Lower	Upper
113	100		
111	104.3	83.3	124.9
192	19.4	13.5	20.3



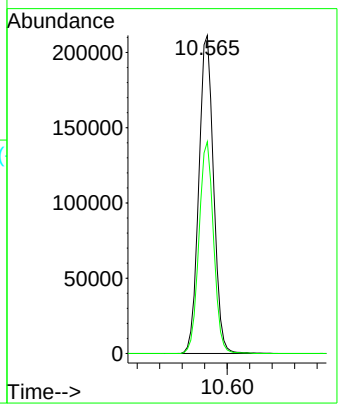


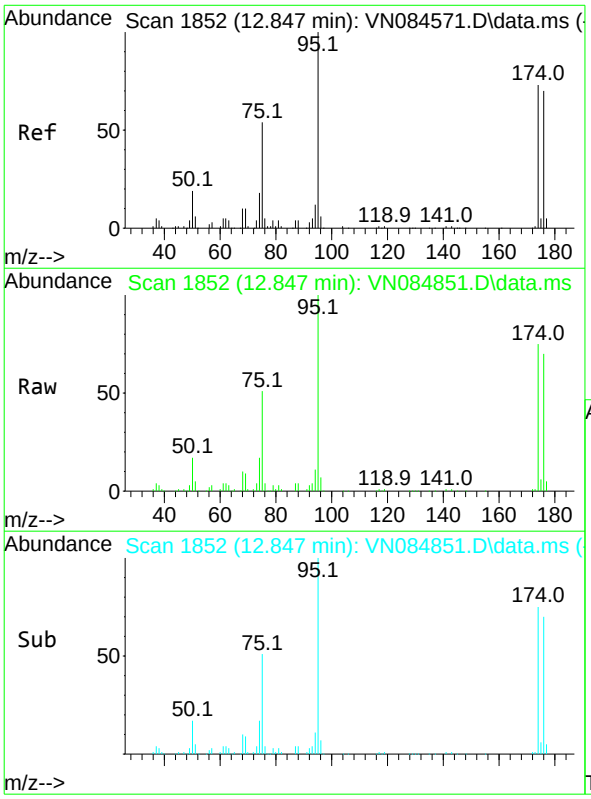
#50
Toluene-d8
Concen: 45.975 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Tgt Ion: 98 Resp: 384699

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.7	79.1

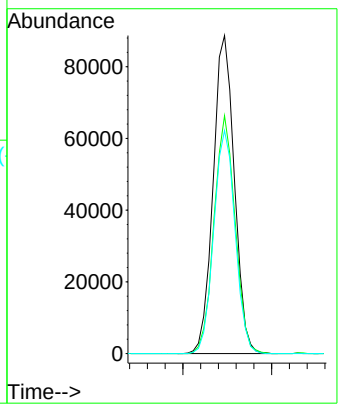


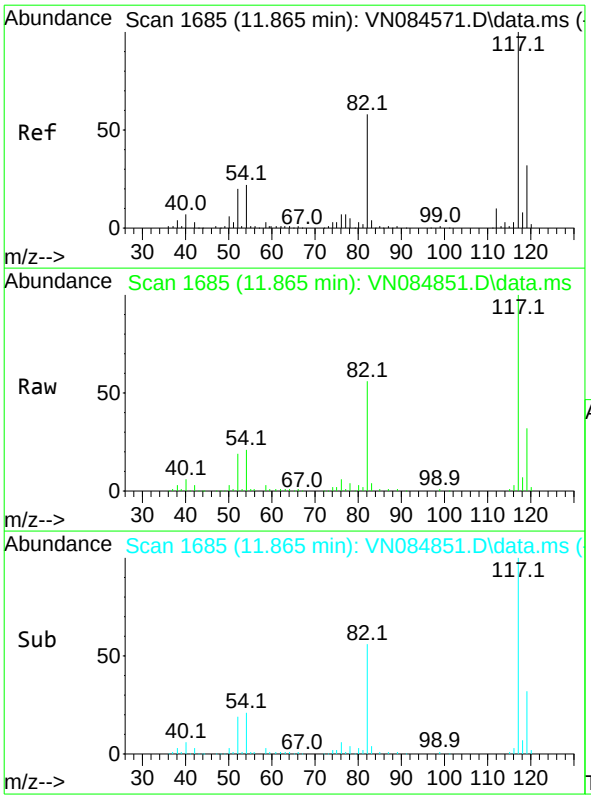


#62
4-Bromofluorobenzene
Concen: 47.061 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Tgt Ion: 95 Resp: 147170

Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	145.2
176	70.4	0.0	140.0



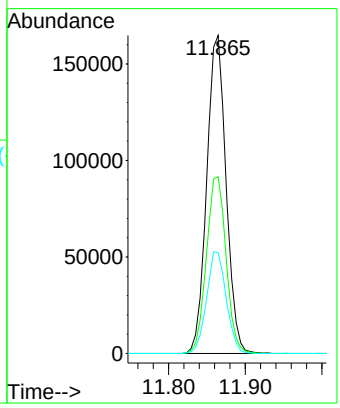


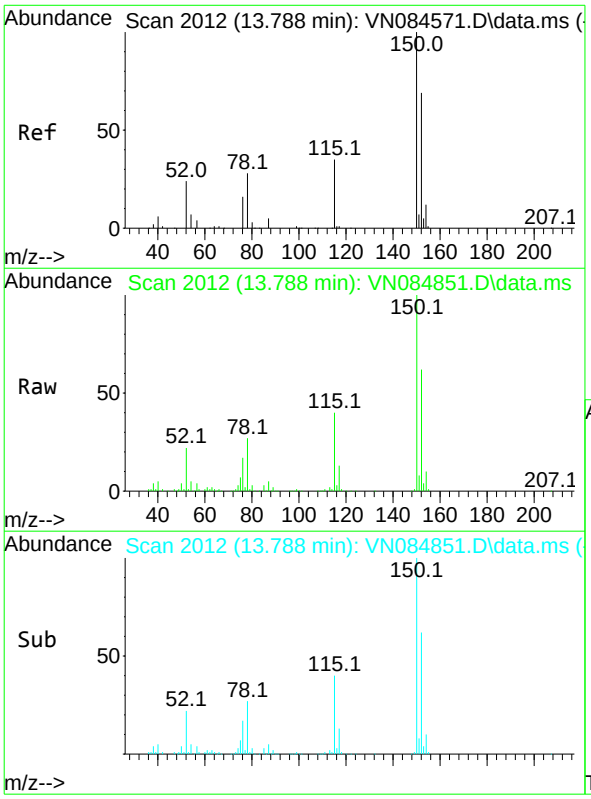
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Tgt Ion:117 Resp: 288886

Ion	Ratio	Lower	Upper
117	100		
82	55.6	47.2	70.8
119	31.7	25.4	38.0

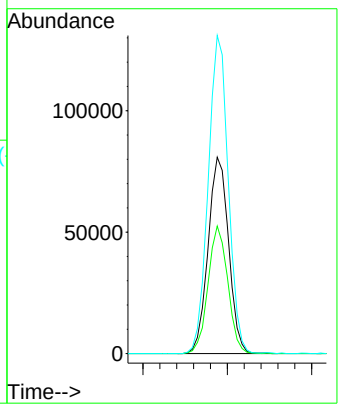




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Tgt Ion:152 Resp: 136820

Ion	Ratio	Lower	Upper
152	100		
115	62.3	31.3	93.9
150	158.2	0.0	349.8



Sample Results: **VN084851.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

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\82N103024W.M
Title : SW846 8260

Signal : TIC: VN084851.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.812	138	146	147	rBV	7379	12410	1.22%	0.222%
2	2.924	154	165	172	rVB4	21589	83495	8.23%	1.492%
3	8.159	1044	1055	1060	rBV	149526	356274	35.11%	6.367%
4	8.218	1060	1065	1076	rVB	263937	582132	57.36%	10.404%
5	8.577	1116	1126	1136	rBV	159657	362261	35.70%	6.474%
6	9.094	1204	1214	1226	rBV	370816	774636	76.33%	13.844%
7	10.565	1454	1464	1479	rBV	558325	1014793	100.00%	18.136%
8	11.865	1677	1685	1695	rBV	493592	884489	87.16%	15.808%
9	12.847	1843	1852	1861	rVB	408355	686073	67.61%	12.261%
10	13.788	2005	2012	2021	rBV	508600	838803	82.66%	14.991%

Sum of corrected areas: 5595366

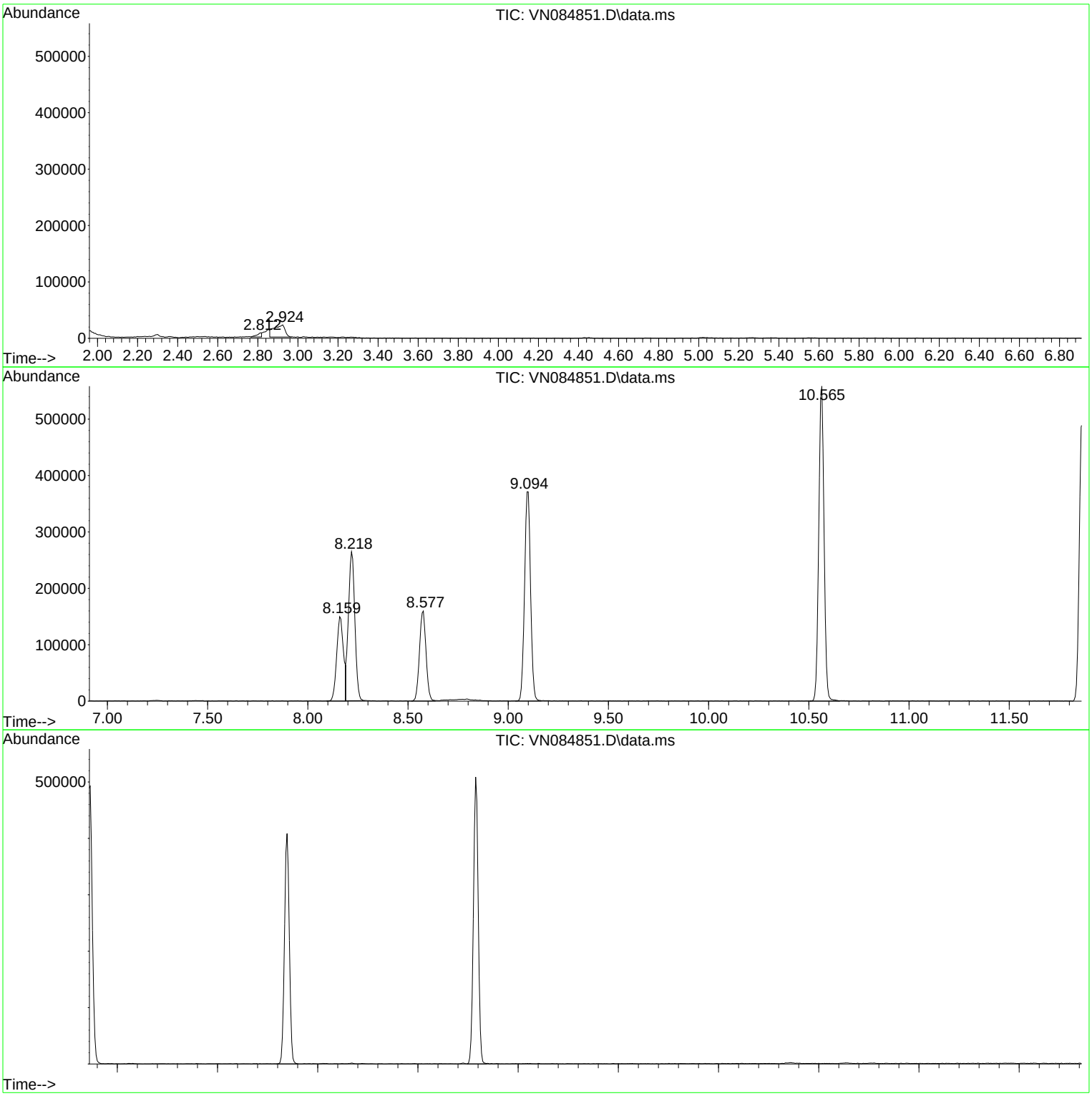
Sample Results: **VN084851.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VN084851.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Time: Nov 15 00:42:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

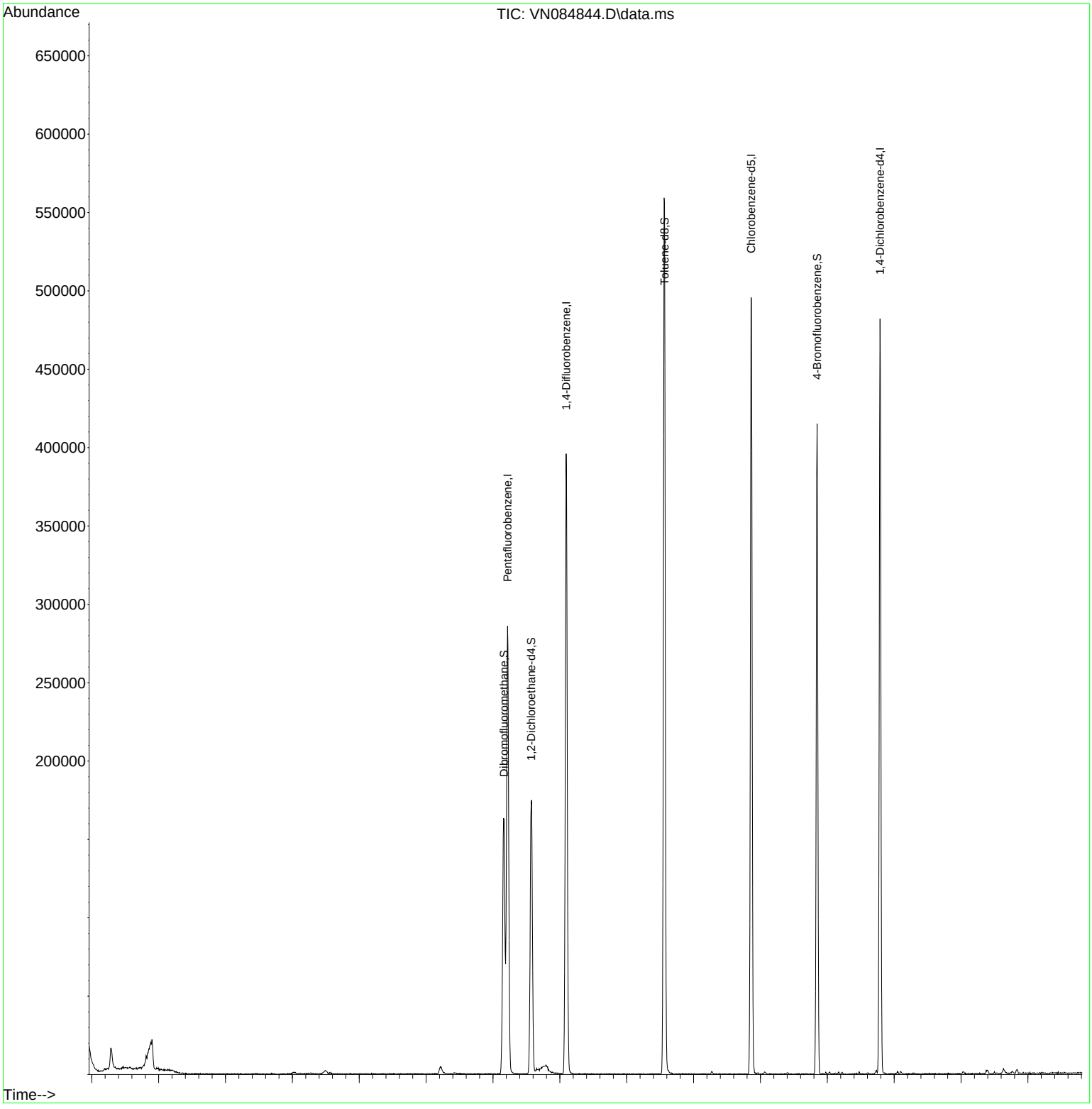
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	203029	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	340637	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	293869	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131669	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	149395	50.946	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.900%			
35) Dibromofluoromethane	8.165	113	119930	52.015	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.020%			
50) Toluene-d8	10.565	98	393047	46.276	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.560%			
62) 4-Bromofluorobenzene	12.847	95	149177	46.995	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.000%			
Target Compounds						Qvalue

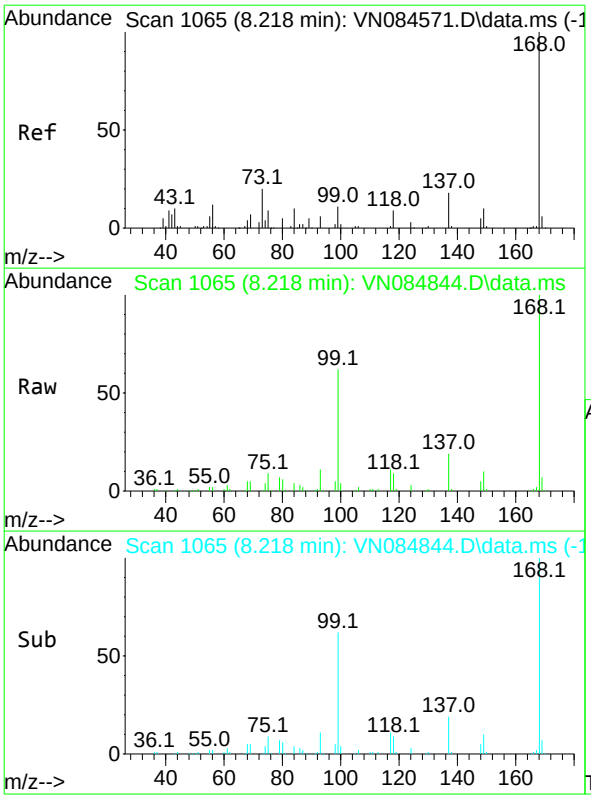
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Time: Nov 15 00:42:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



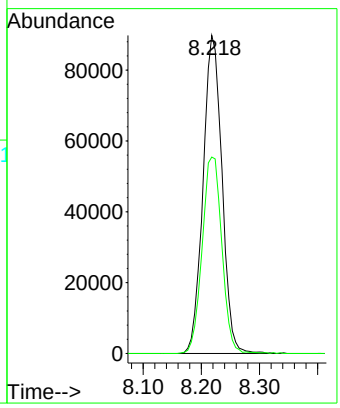


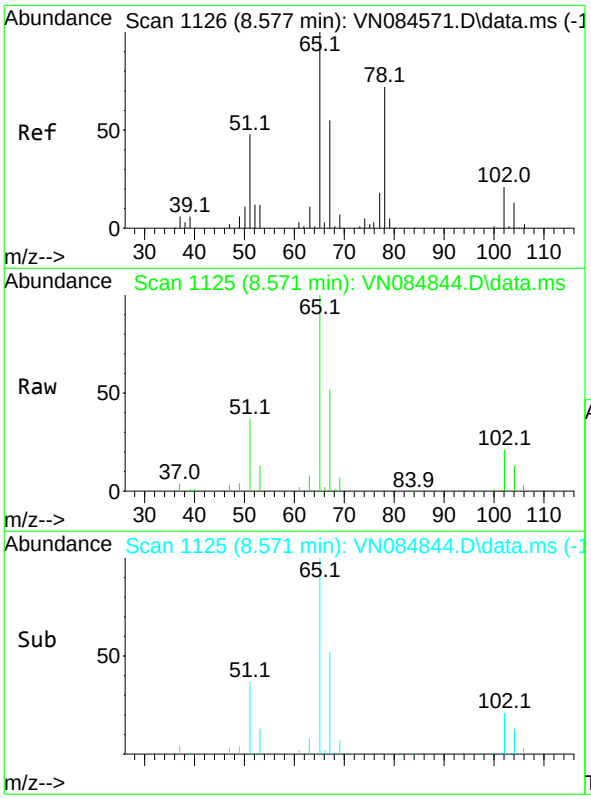
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Tgt Ion:168 Resp: 203029

Ion	Ratio	Lower	Upper
168	100		
99	61.8	54.2	81.2

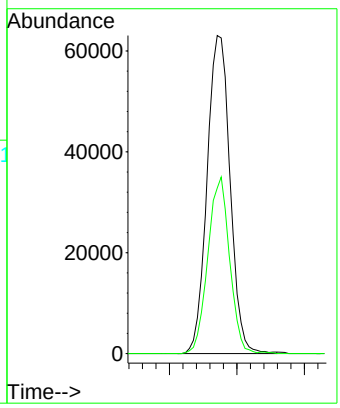


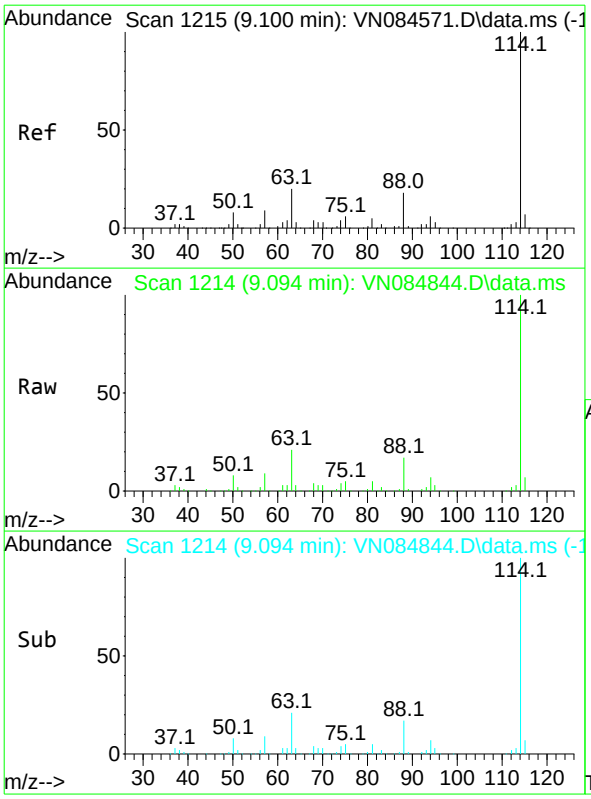


#33
1,2-Dichloroethane-d4
Concen: 50.946 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Tgt Ion: 65 Resp: 149395

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	102.0



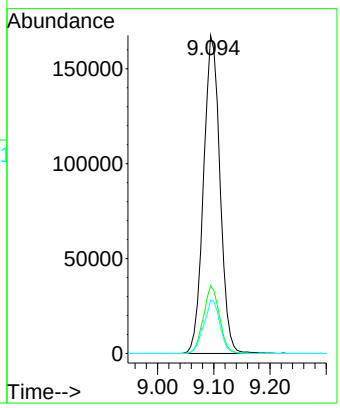


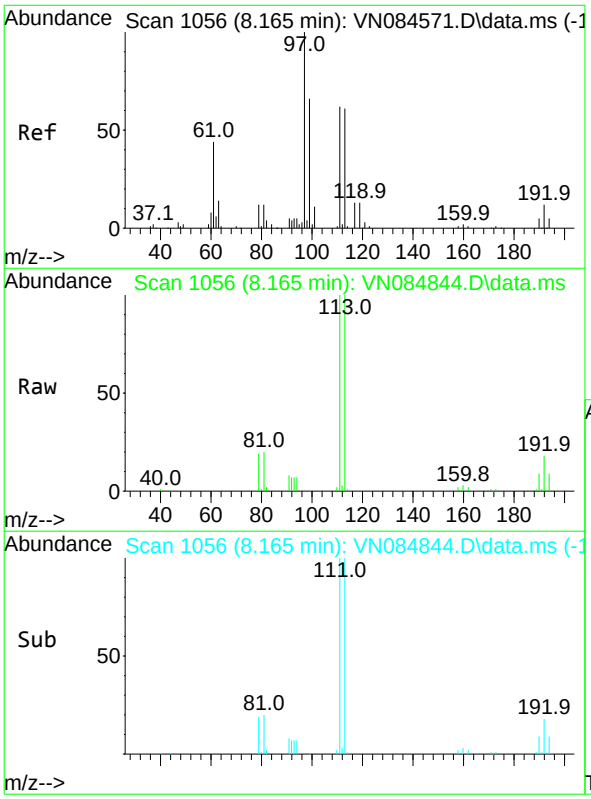
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Tgt Ion:114 Resp: 340637

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.8
88	16.8	0.0	31.6

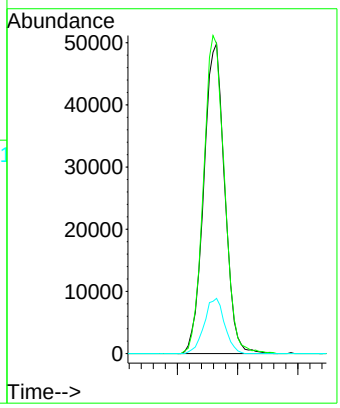


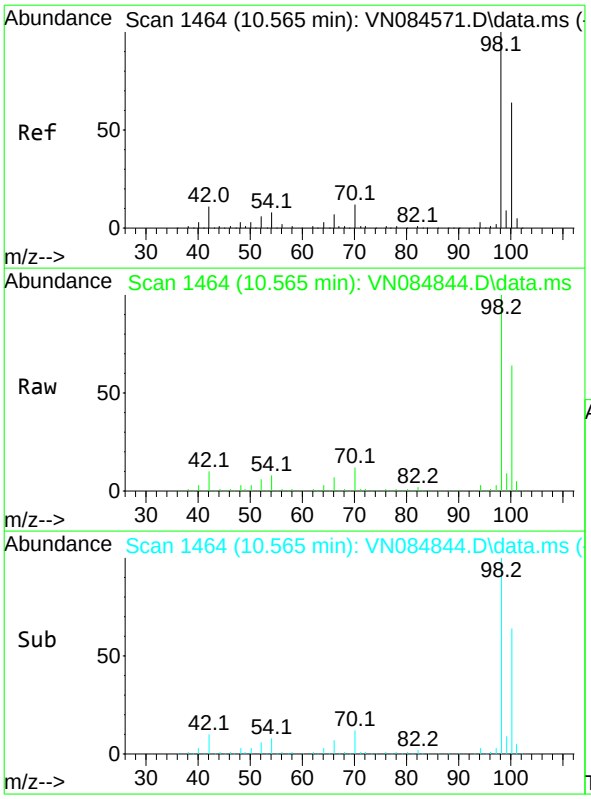


#35
Dibromofluoromethane
Concen: 52.015 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Tgt Ion:113 Resp: 119930

Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.3	124.9
192	17.4	13.5	20.3



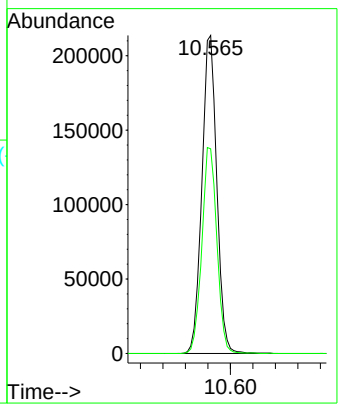


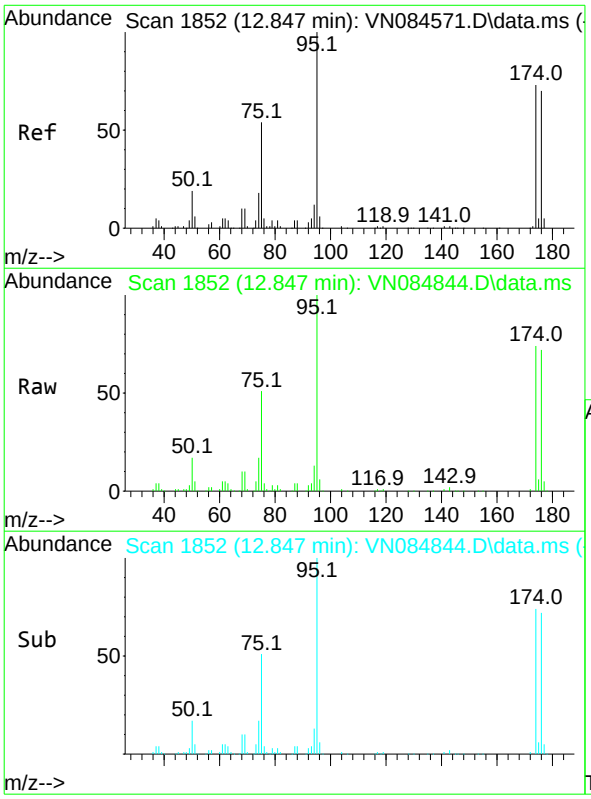
#50
Toluene-d8
Concen: 46.276 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Tgt Ion: 98 Resp: 393047

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.7	79.1

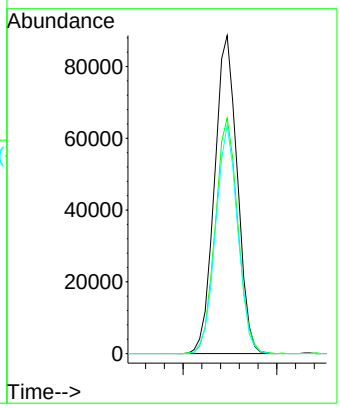


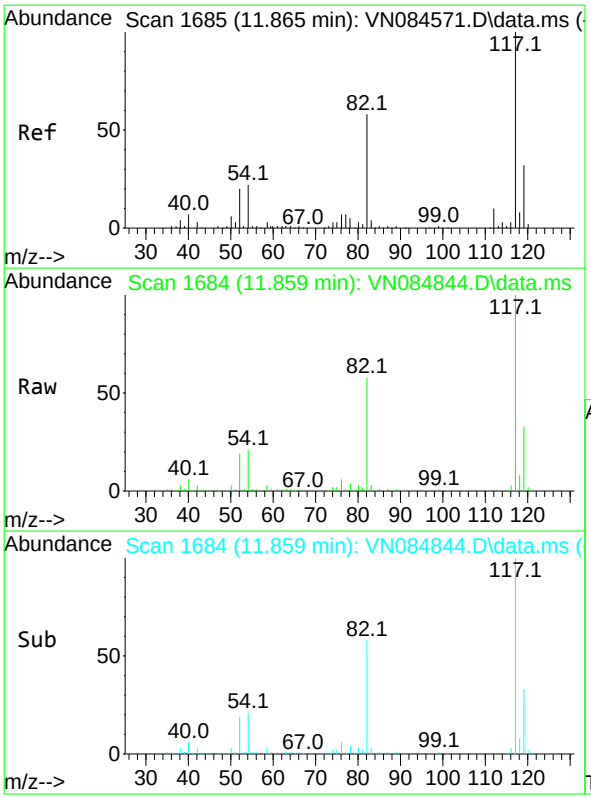


#62
4-Bromofluorobenzene
Concen: 46.995 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Tgt Ion: 95 Resp: 149177

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	145.2
176	69.9	0.0	140.0



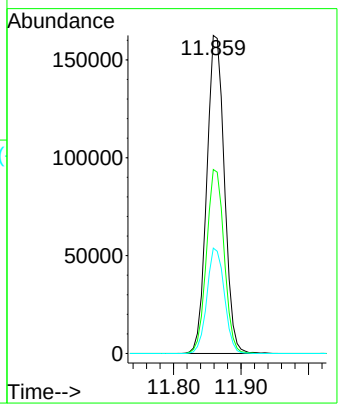


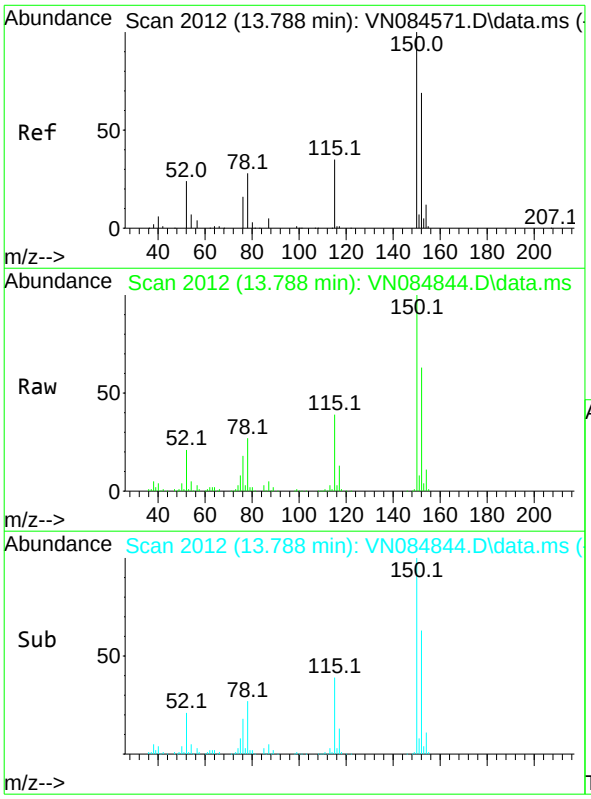
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 16
Delta R.T. -0.006 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Tgt Ion:117 Resp: 293869

Ion	Ratio	Lower	Upper
117	100		
82	57.9	47.2	70.8
119	33.1	25.4	38.0

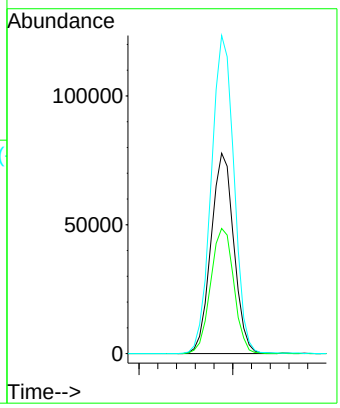




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Tgt Ion:152 Resp: 131669

Ion	Ratio	Lower	Upper
152	100		
115	63.3	31.3	93.9
150	158.2	0.0	349.8



Sample Results: **VN084844.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

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\82N103024W.M
Title : SW846 8260

Signal : TIC: VN084844.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.283	50	56	65	rBV4	13420	31901	3.07%	0.551%
2	2.883	148	158	159	rVV6	16078	46897	4.51%	0.810%
3	2.901	159	161	171	rVB5	19151	27782	2.67%	0.480%
4	8.159	1043	1055	1060	rBV	163366	401196	38.62%	6.932%
5	8.218	1060	1065	1079	rVB	285428	631136	60.76%	10.905%
6	8.577	1116	1126	1136	rBV	174528	408306	39.31%	7.055%
7	9.094	1205	1214	1226	rBV	395603	794999	76.54%	13.737%
8	10.559	1454	1463	1479	rBV	559188	1038725	100.00%	17.948%
9	11.859	1675	1684	1693	rBV	495948	903403	86.97%	15.610%
10	12.847	1844	1852	1861	rVB	415169	693861	66.80%	11.989%
11	13.788	2005	2012	2021	rVB	481350	809211	77.90%	13.982%

Sum of corrected areas: 5787417

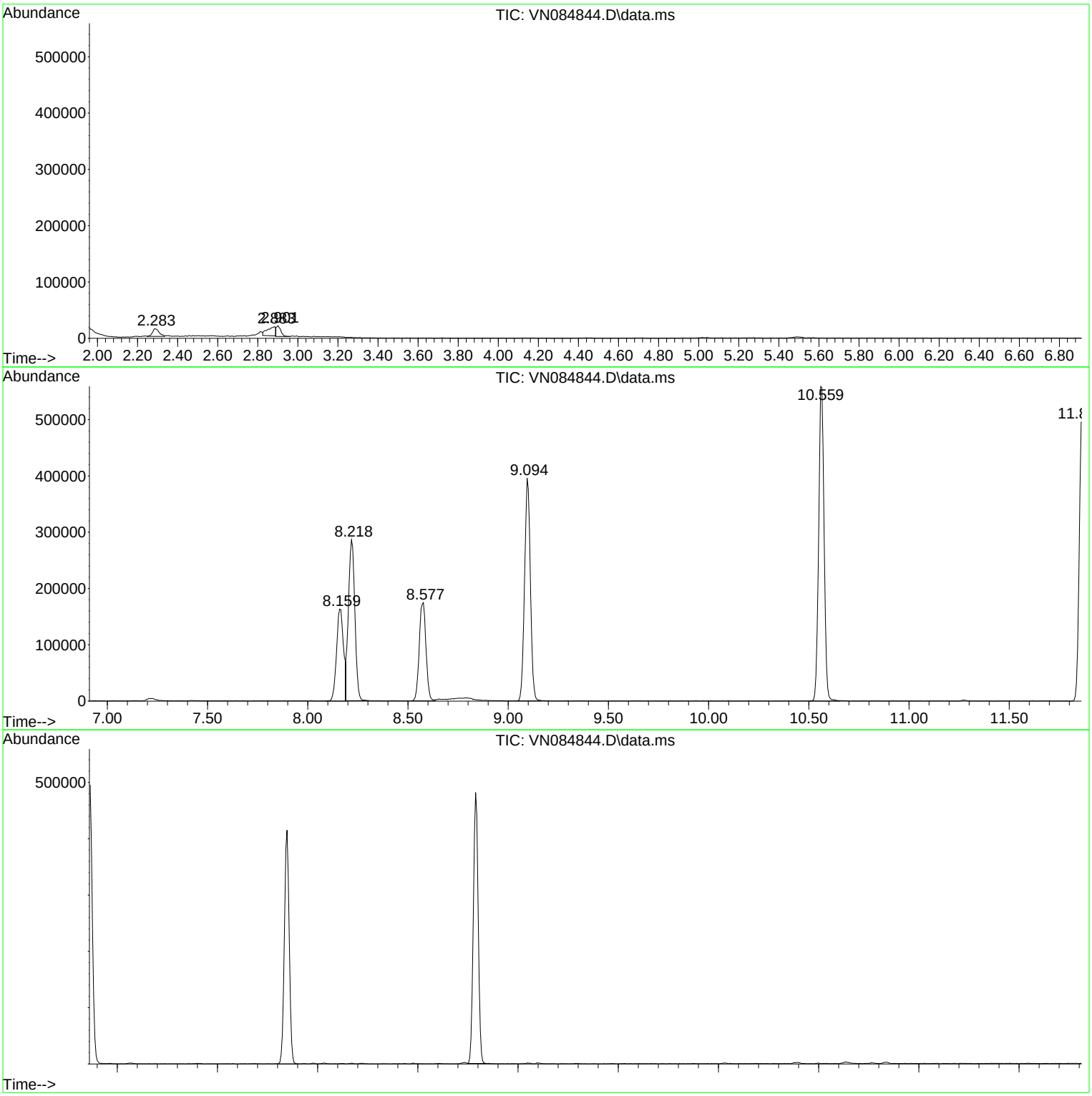
Sample Results: **VN084844.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VN084844.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Time: Nov 08 22:14:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

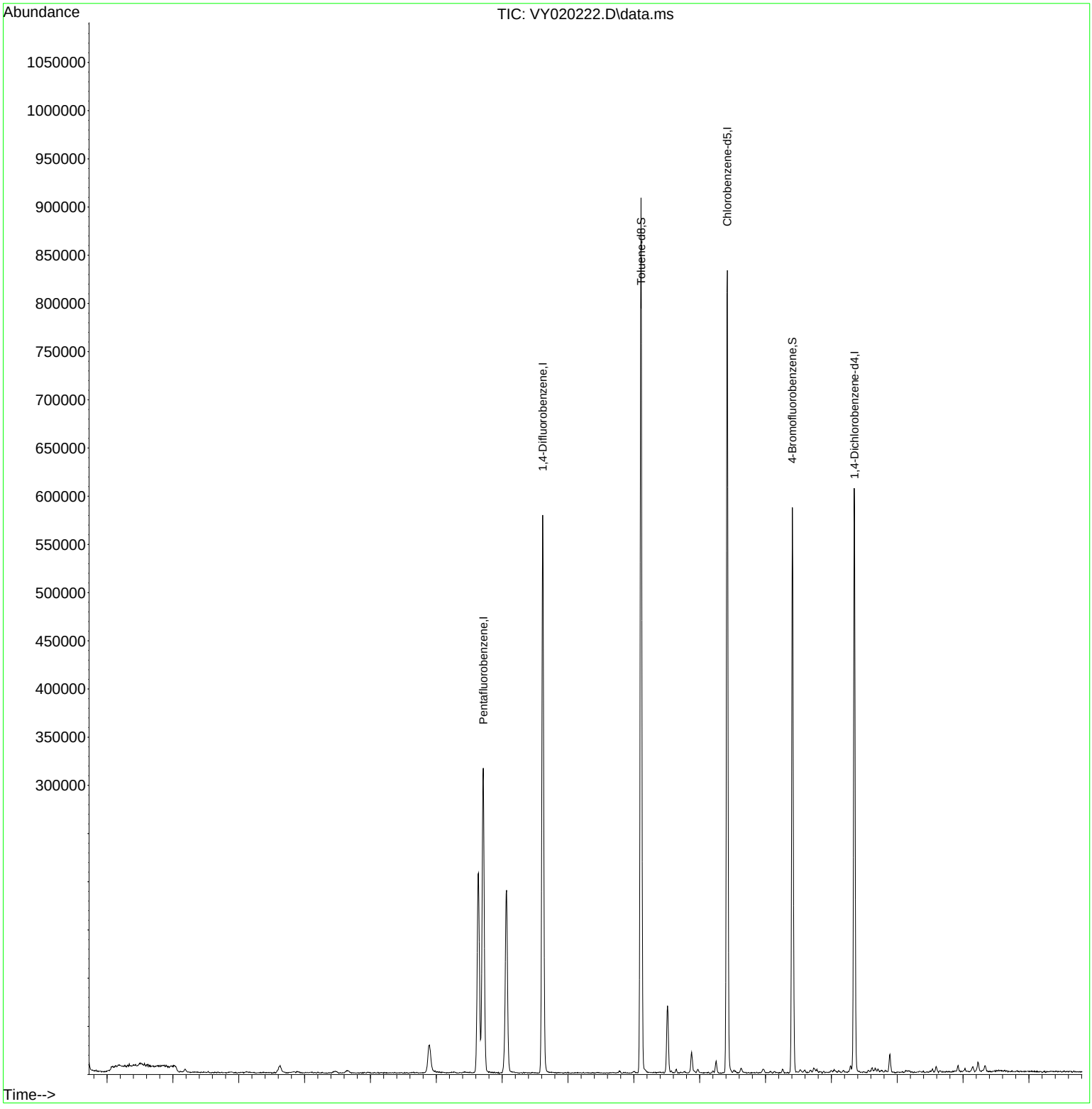
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	212436	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	452508	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	403401	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	137264	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	147279	55.549	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.100%			
35) Dibromofluoromethane	7.640	113	145570	50.597	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.200%			
50) Toluene-d8	10.109	98	552944	48.284	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.560%			
62) 4-Bromofluorobenzene	12.408	95	166242	44.692	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 89.380%			
Target Compounds						Qvalue

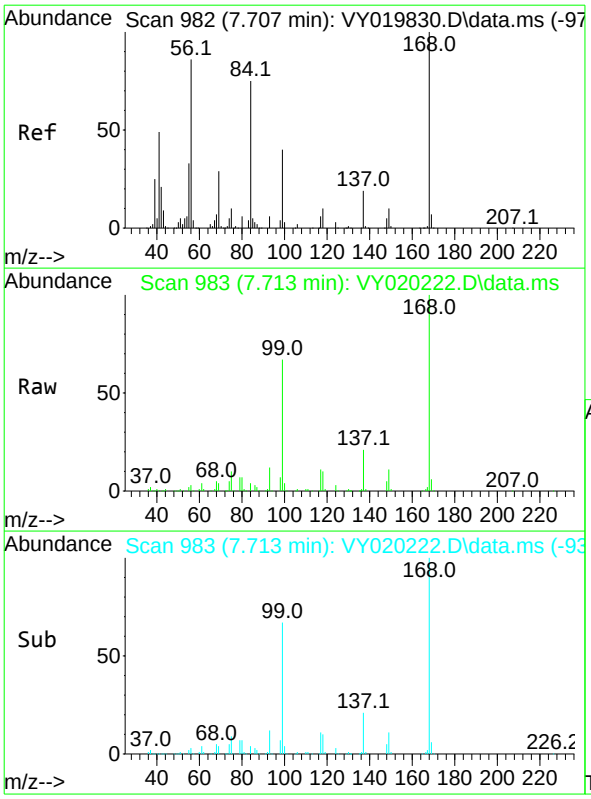
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Time: Nov 08 22:14:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



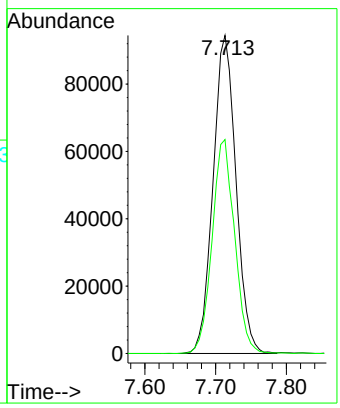


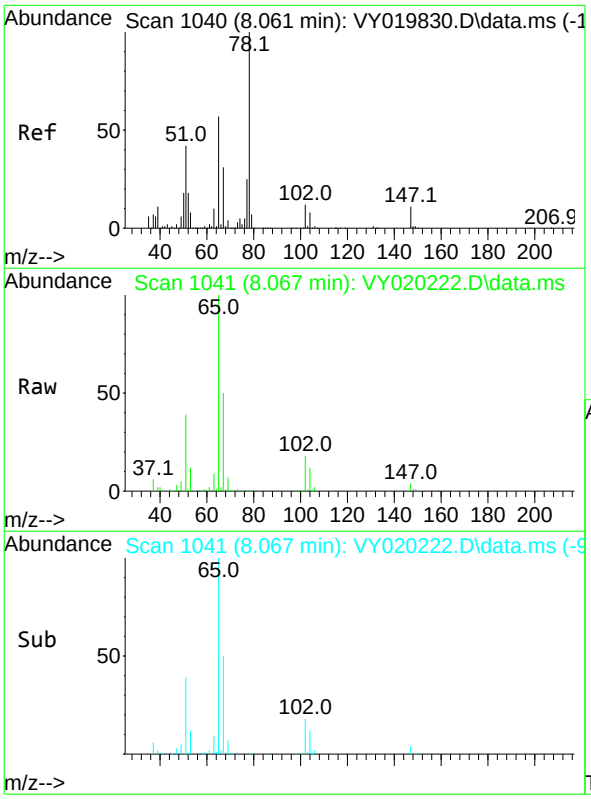
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Tgt Ion:168 Resp: 212436

Ion	Ratio	Lower	Upper
168	100		
99	67.3	39.1	58.7#

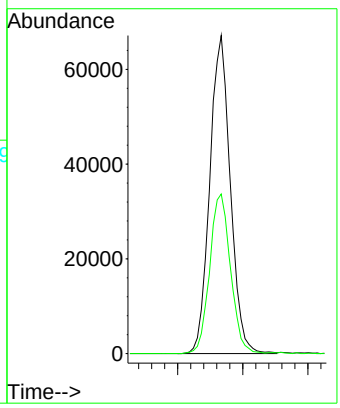


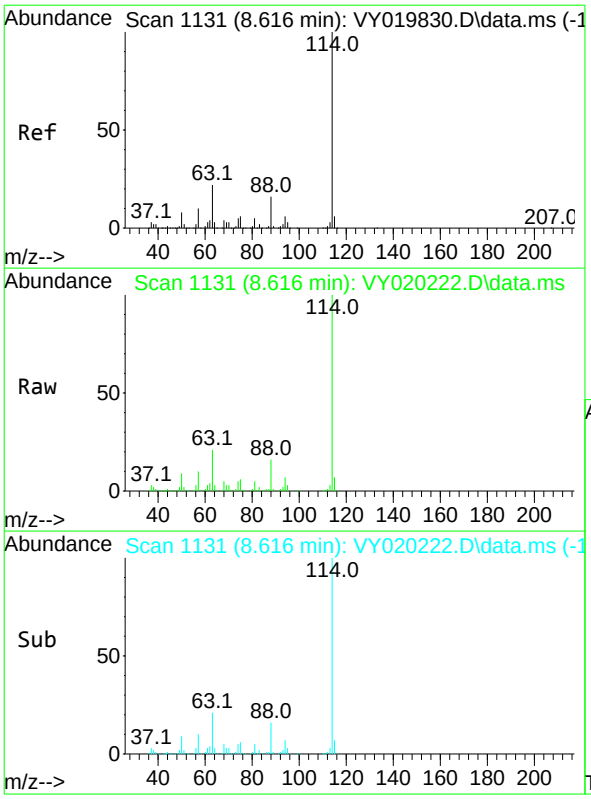


#33
1,2-Dichloroethane-d4
Concen: 55.549 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Tgt Ion: 65 Resp: 147279

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	109.6



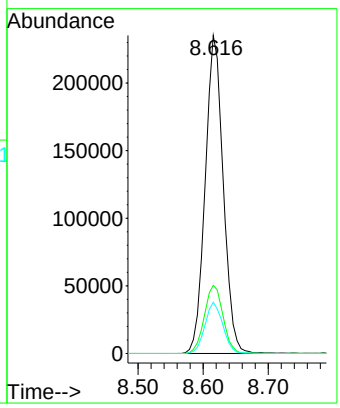


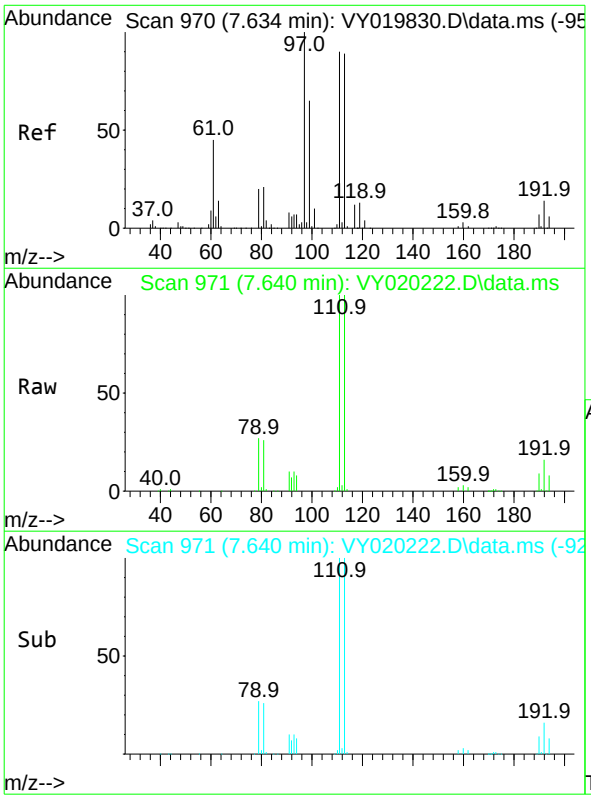
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Tgt Ion:114 Resp: 452508

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	35.0
88	16.1	0.0	27.2

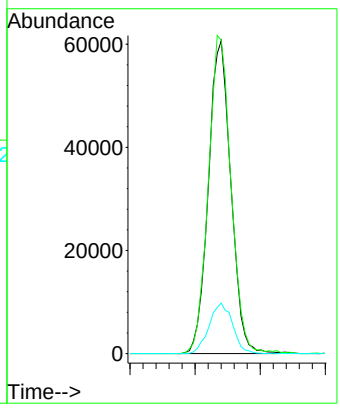




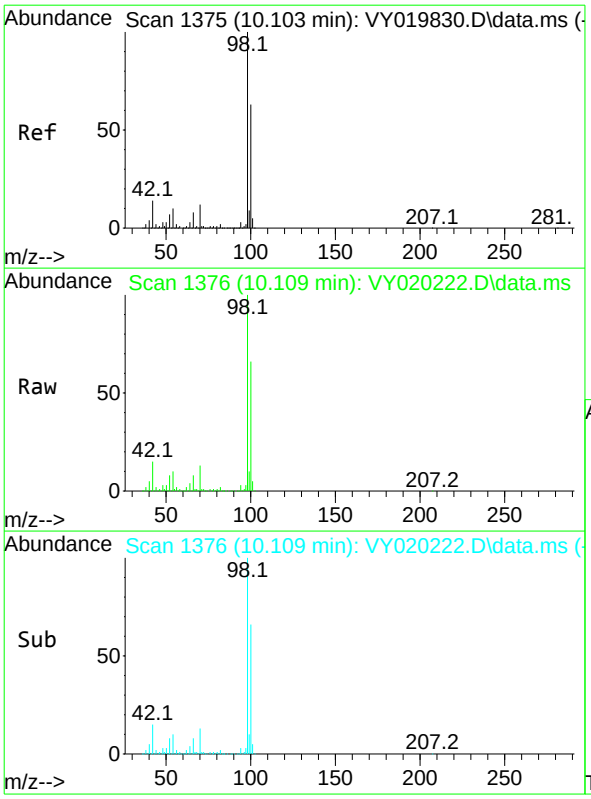
#35
Dibromofluoromethane
Concen: 50.597 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Tgt Ion:113 Resp: 145570

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.4
192	16.8	15.9	23.9



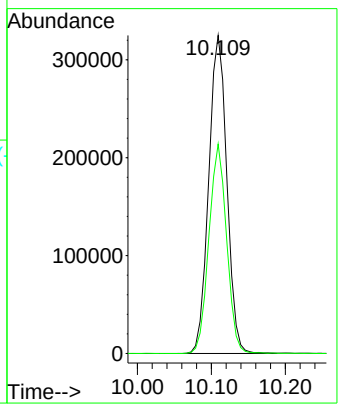
Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

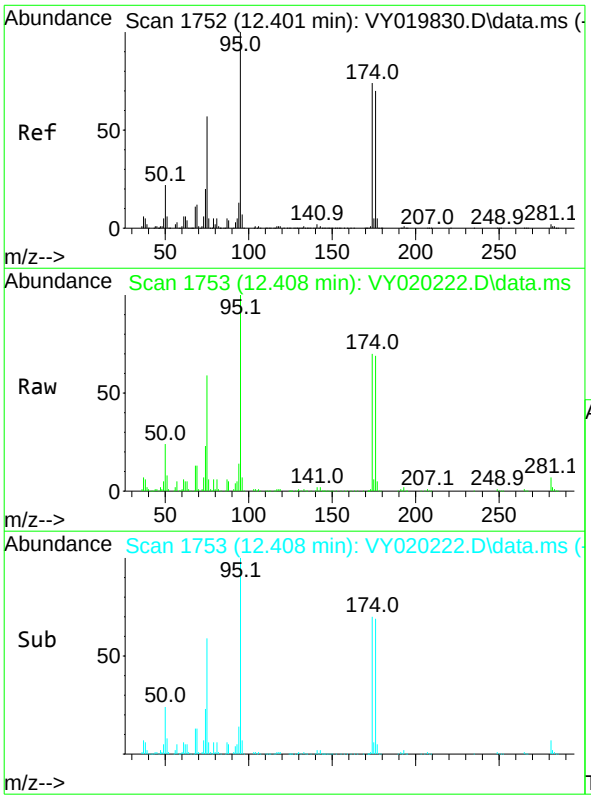


#50
Toluene-d8
Concen: 48.284 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Tgt Ion: 98 Resp: 552944

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.0	78.0

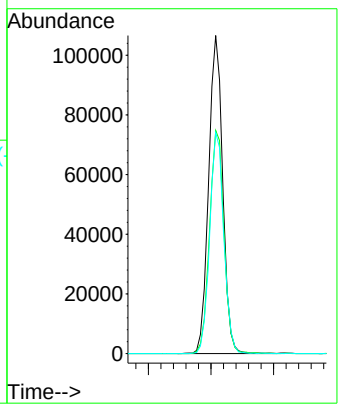


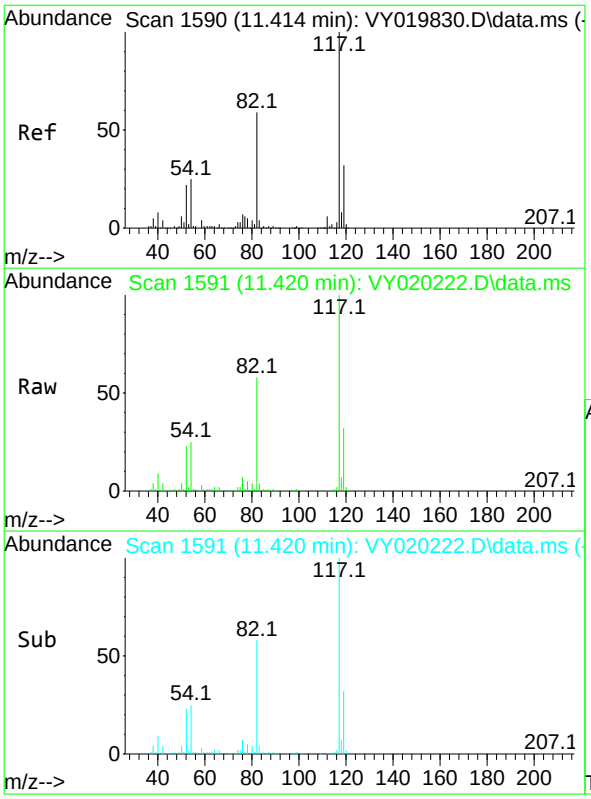


#62
4-Bromofluorobenzene
Concen: 44.692 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Tgt Ion: 95 Resp: 166242

Ion	Ratio	Lower	Upper
95	100		
174	72.0	0.0	175.6
176	69.4	0.0	171.4



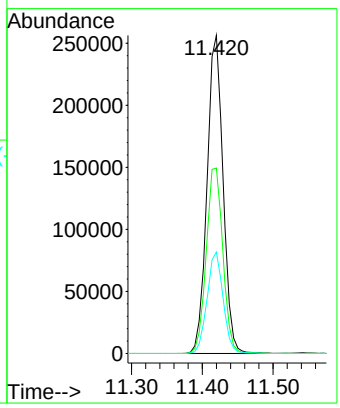


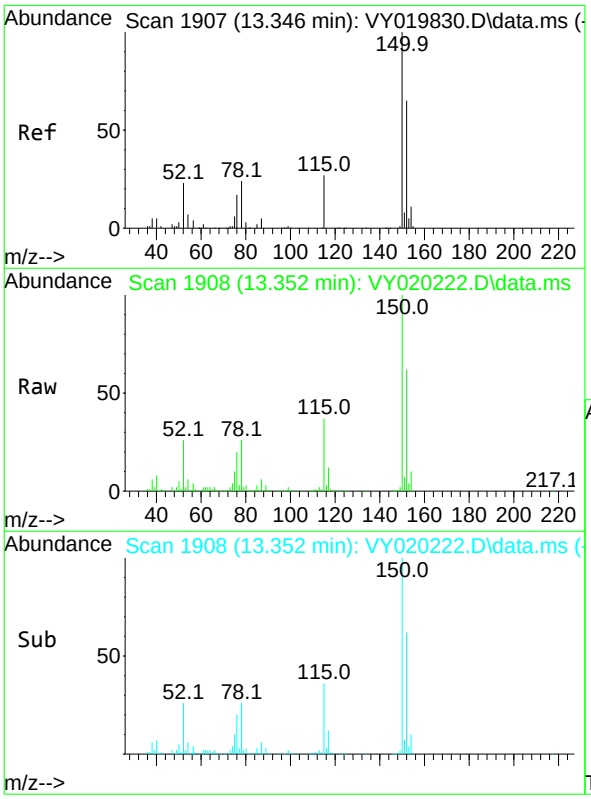
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Tgt Ion:117 Resp: 403401

Ion	Ratio	Lower	Upper
117	100		
82	58.3	42.4	63.6
119	31.9	25.9	38.9

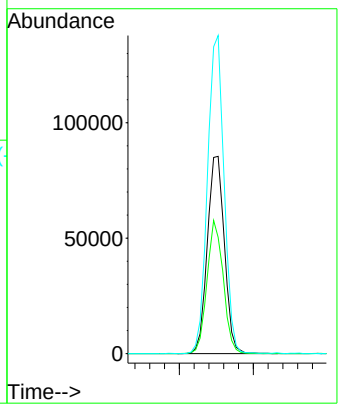




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Tgt Ion:152 Resp: 137264

Ion	Ratio	Lower	Upper
152	100		
115	63.9	28.2	84.7
150	156.3	0.0	345.6



Sample Results: **VY020222.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

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\82Y103024S.M
Title : SW846 8260

Signal : TIC: VY020222.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.896	837	849	860	rBV2	28588	93740	6.08%	1.177%
2	7.640	960	971	976	rBV	207082	495163	32.12%	6.217%
3	7.713	976	983	996	rVB	315711	720195	46.72%	9.042%
4	8.067	1030	1041	1051	rBV	189419	457555	29.68%	5.745%
5	8.616	1122	1131	1144	rBV	578903	1130959	73.37%	14.199%
6	10.109	1368	1376	1390	rBV	907929	1541400	100.00%	19.353%
7	10.512	1433	1442	1449	rBV	69894	134571	8.73%	1.690%
8	10.877	1494	1502	1513	rBV3	21355	41650	2.70%	0.523%
9	11.249	1558	1563	1570	rVB2	12577	21288	1.38%	0.267%
10	11.420	1583	1591	1603	rBV	832478	1352338	87.73%	16.979%
11	12.408	1744	1753	1762	rBV2	586796	970051	62.93%	12.179%
12	13.346	1900	1907	1919	rVB	605252	953962	61.89%	11.977%
13	13.889	1990	1996	2002	rVB2	18706	30902	2.00%	0.388%
14	15.224	2207	2215	2224	rBV3	10242	21012	1.36%	0.264%

Sum of corrected areas: 7964786

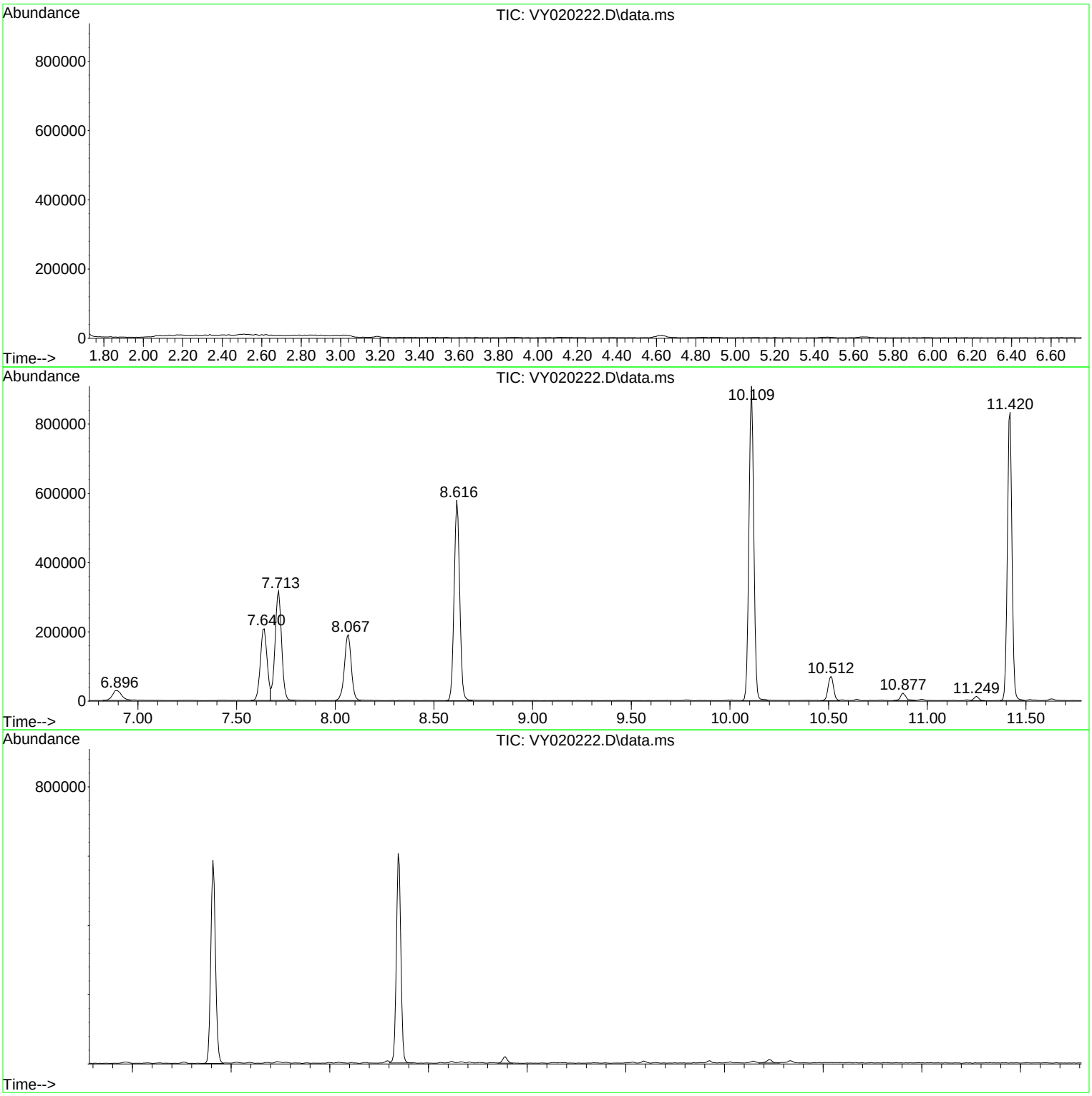
Sample Results: **VY020222.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY020222.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.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_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.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\VN111424\
Data File : VN084846.D
Acq On : 14 Nov 2024 12:50
Operator : JC\MD
Sample : VN1114WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 00:44:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	169550	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	270058	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	234639	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	118912	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	114124	46.603	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.200%			
35) Dibromofluoromethane	8.159	113	92823	50.779	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.560%			
50) Toluene-d8	10.565	98	330275	49.049	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.100%			
62) 4-Bromofluorobenzene	12.847	95	124800	49.591	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.180%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	37847	19.418	ug/l	88
3) Chloromethane	2.359	50	41236	16.333	ug/l	99
4) Vinyl Chloride	2.512	62	45362	21.638	ug/l	99
5) Bromomethane	2.901	94	22816	20.541	ug/l	93
6) Chloroethane	3.083	64	28977	21.536	ug/l #	88
7) Trichlorofluoromethane	3.477	101	68652	19.880	ug/l	98
8) Diethyl Ether	3.959	74	24825	20.379	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.353	101	40451	20.730	ug/l	98
10) Methyl Iodide	4.577	142	54005	20.708	ug/l	90
11) Tert butyl alcohol	5.542	59	31647	97.904	ug/l	95
12) 1,1-Dichloroethene	4.330	96	36223	18.760	ug/l	99
13) Acrolein	4.171	56	31282	97.050	ug/l	97
14) Allyl chloride	5.012	41	55310	17.664	ug/l	97
15) Acrylonitrile	5.718	53	88439	94.508	ug/l	100
16) Acetone	4.424	43	73518	102.243	ug/l	98
17) Carbon Disulfide	4.700	76	102779	17.285	ug/l	97
18) Methyl Acetate	5.012	43	46160	15.075	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	120830	20.417	ug/l	99
20) Methylene Chloride	5.271	84	41116	19.090	ug/l	85
21) trans-1,2-Dichloroethene	5.783	96	37615	18.972	ug/l	95
22) Diisopropyl ether	6.665	45	126019	20.254	ug/l	98
23) Vinyl Acetate	6.594	43	429740	100.156	ug/l	96
24) 1,1-Dichloroethane	6.559	63	75613	20.242	ug/l	97
25) 2-Butanone	7.477	43	112446	98.423	ug/l	99
26) 2,2-Dichloropropane	7.477	77	68163	20.965	ug/l	96
27) cis-1,2-Dichloroethene	7.477	96	46070	19.901	ug/l	97
28) Bromochloromethane	7.806	49	30543	20.523	ug/l	90
29) Tetrahydrofuran	7.836	42	71469	94.294	ug/l	93
30) Chloroform	7.959	83	76934	20.235	ug/l	98
31) Cyclohexane	8.253	56	64564	19.097	ug/l	91
32) 1,1,1-Trichloroethane	8.159	97	71181	20.569	ug/l	97
36) 1,1-Dichloropropene	8.365	75	52698	20.787	ug/l	99
37) Ethyl Acetate	7.559	43	47211	20.525	ug/l	100
38) Carbon Tetrachloride	8.359	117	62964	22.220	ug/l	93
39) Methylcyclohexane	9.600	83	58004	22.490	ug/l	98
40) Benzene	8.600	78	167429	20.565	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084846.D
Acq On : 14 Nov 2024 12:50
Operator : JC\MD
Sample : VN1114WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 00:44:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.771	41	28000	22.637 ug/l		96
42) 1,2-Dichloroethane	8.665	62	54596	20.706 ug/l		97
43) Isopropyl Acetate	8.683	43	84927	19.395 ug/l		98
44) Trichloroethene	9.347	130	39866	21.232 ug/l		98
45) 1,2-Dichloropropane	9.612	63	40081	20.986 ug/l		98
46) Dibromomethane	9.706	93	27289	20.249 ug/l		93
47) Bromodichloromethane	9.882	83	58232	20.499 ug/l	#	93
48) Methyl methacrylate	9.682	41	36343	20.302 ug/l		95
49) 1,4-Dioxane	9.694	88	13692	431.621 ug/l		95
51) 4-Methyl-2-Pentanone	10.441	43	229499	104.664 ug/l		96
52) Toluene	10.629	92	102629	21.553 ug/l		99
53) t-1,3-Dichloropropene	10.829	75	60180	20.466 ug/l		98
54) cis-1,3-Dichloropropene	10.306	75	65098	20.917 ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	38706	21.580 ug/l		97
56) Ethyl methacrylate	10.871	69	57910	22.321 ug/l		93
57) 1,3-Dichloropropane	11.159	76	66297	21.537 ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	128541	105.881 ug/l		94
59) 2-Hexanone	11.194	43	172000	107.766 ug/l		97
60) Dibromochloromethane	11.353	129	44196	21.620 ug/l		98
61) 1,2-Dibromoethane	11.465	107	38793	21.120 ug/l		97
64) Tetrachloroethene	11.100	164	34670	22.214 ug/l		97
65) Chlorobenzene	11.888	112	110830	21.113 ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	39460	21.612 ug/l		99
67) Ethyl Benzene	11.959	91	187829	21.436 ug/l		96
68) m/p-Xylenes	12.071	106	143326	43.206 ug/l		97
69) o-Xylene	12.394	106	69983	22.552 ug/l		99
70) Styrene	12.406	104	118961	21.975 ug/l		100
71) Bromoform	12.576	173	28661	20.861 ug/l	#	96
73) Isopropylbenzene	12.694	105	177802	21.337 ug/l		100
74) N-amyl acetate	12.494	43	68496	19.313 ug/l		95
75) 1,1,2,2-Tetrachloroethane	12.935	83	53689	19.302 ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	50712m	21.335 ug/l		
77) Bromobenzene	12.976	156	45069	20.118 ug/l		93
78) n-propylbenzene	13.029	91	207174	21.216 ug/l		99
79) 2-Chlorotoluene	13.123	91	132760	20.807 ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	155554	22.523 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	18639	18.603 ug/l		98
82) 4-Chlorotoluene	13.218	91	136736	20.363 ug/l		99
83) tert-Butylbenzene	13.435	119	128384	22.460 ug/l		97
84) 1,2,4-Trimethylbenzene	13.476	105	157459	22.089 ug/l		98
85) sec-Butylbenzene	13.612	105	176072	21.807 ug/l		100
86) p-Isopropyltoluene	13.723	119	150327	22.702 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	83871	19.184 ug/l		98
88) 1,4-Dichlorobenzene	13.806	146	84098	20.288 ug/l		100
89) n-Butylbenzene	14.053	91	126655	20.447 ug/l		98
90) Hexachloroethane	14.329	117	27627	18.708 ug/l		94
91) 1,2-Dichlorobenzene	14.106	146	81067	19.297 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.712	75	10170	18.048 ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	42976	18.690 ug/l		99
94) Hexachlorobutadiene	15.500	225	20149	19.954 ug/l		99
95) Naphthalene	15.635	128	124633	18.108 ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	41610	18.641 ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084846.D
Acq On : 14 Nov 2024 12:50
Operator : JC\MD
Sample : VN1114WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 00:44:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

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

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

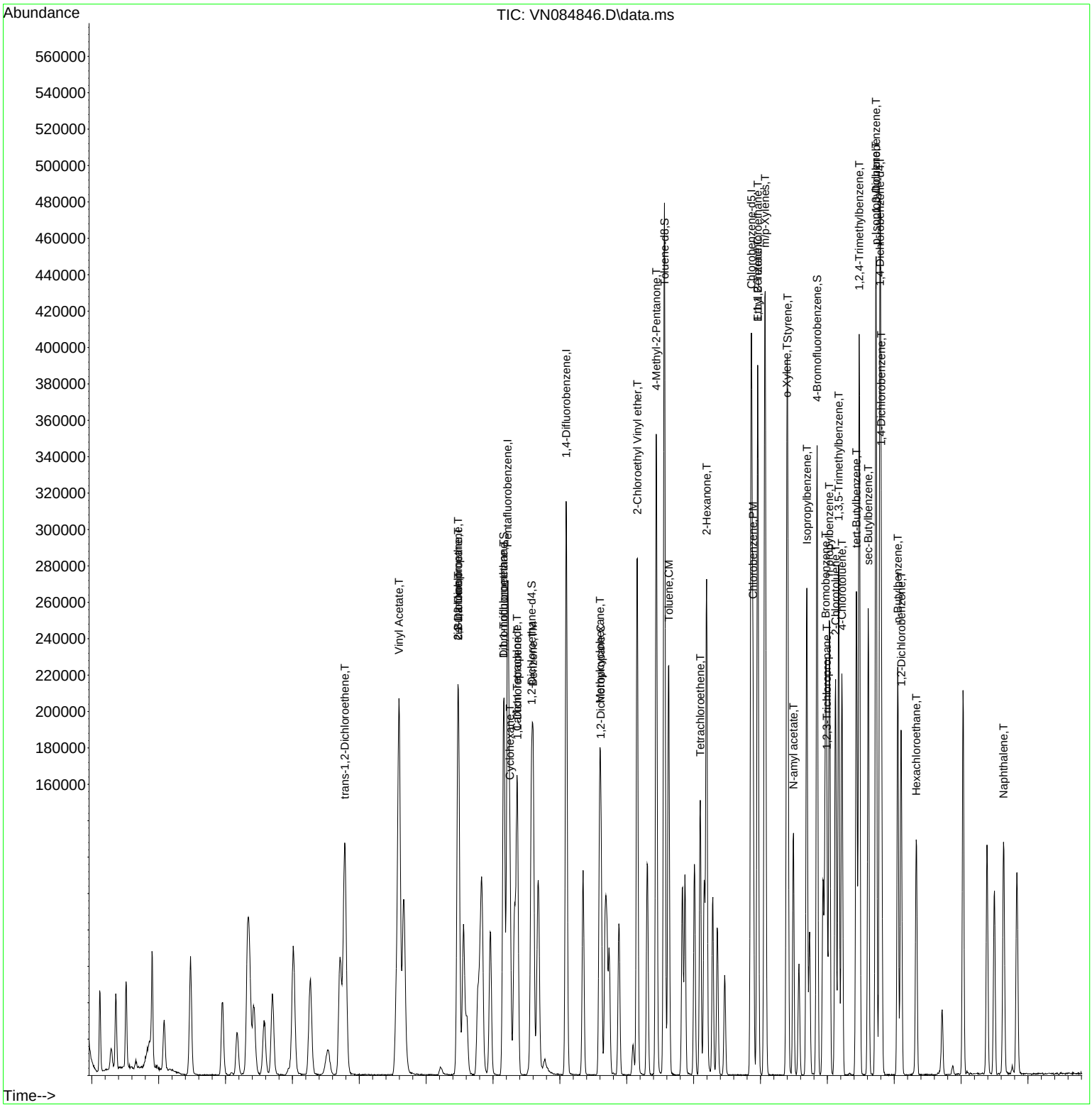
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084846.D
Acq On : 14 Nov 2024 12:50
Operator : JC\MD
Sample : VN1114WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 00:44:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020223.D
Acq On : 08 Nov 2024 11:19
Operator : SY/MD
Sample : VY1108SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 22:15:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	263593	50.000	ug/l	#	0.00
34) 1,4-Difluorobenzene	8.615	114	480169	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	412478	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	187903	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	166958	50.750	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.500%				
35) Dibromofluoromethane	7.640	113	152271	49.878	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.760%				
50) Toluene-d8	10.109	98	597036	49.131	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.260%				
62) 4-Bromofluorobenzene	12.407	95	197404	50.012	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 100.020%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	41942	17.189	ug/l		99
3) Chloromethane	2.068	50	74994	18.555	ug/l		97
4) Vinyl Chloride	2.208	62	83860	19.328	ug/l		97
5) Bromomethane	2.592	94	58071	20.159	ug/l		97
6) Chloroethane	2.738	64	55691	19.888	ug/l		99
7) Trichlorofluoromethane	3.055	101	113368	21.388	ug/l		100
8) Diethyl Ether	3.452	74	32149	21.747	ug/l		82
9) 1,1,2-Trichlorotrifluo...	3.811	101	61221	20.593	ug/l		91
10) Methyl Iodide	4.007	142	55945	19.491	ug/l	#	89
11) Tert butyl alcohol	4.854	59	27360	115.620	ug/l	#	87
12) 1,1-Dichloroethene	3.793	96	57422	20.187	ug/l	#	81
13) Acrolein	3.659	56	24893	84.504	ug/l		98
14) Allyl chloride	4.385	41	100635	19.609	ug/l	#	88
15) Acrylonitrile	5.061	53	72500	107.736	ug/l		99
16) Acetone	3.872	43	78002	101.955	ug/l		87
17) Carbon Disulfide	4.104	76	161575	17.069	ug/l		99
18) Methyl Acetate	4.391	43	37350	20.807	ug/l		91
19) Methyl tert-butyl Ether	5.122	73	155652	21.751	ug/l		99
20) Methylene Chloride	4.616	84	63508	18.479	ug/l	#	77
21) trans-1,2-Dichloroethene	5.116	96	64368	20.065	ug/l		88
22) Diisopropyl ether	6.018	45	222674	20.909	ug/l	#	88
23) Vinyl Acetate	5.957	43	611393	102.010	ug/l	#	90
24) 1,1-Dichloroethane	5.915	63	126778	20.558	ug/l		95
25) 2-Butanone	6.896	43	108472	104.594	ug/l	#	87
26) 2,2-Dichloropropane	6.890	77	103895	20.249	ug/l		94
27) cis-1,2-Dichloroethene	6.890	96	75534	20.483	ug/l		83
28) Bromochloromethane	7.244	49	57361	19.865	ug/l	#	73
29) Tetrahydrofuran	7.262	42	62887	105.075	ug/l	#	83
30) Chloroform	7.421	83	128990	21.079	ug/l		100
31) Cyclohexane	7.701	56	110296	18.475	ug/l		89
32) 1,1,1-Trichloroethane	7.622	97	112619	21.079	ug/l		96
36) 1,1-Dichloropropene	7.835	75	89258	18.927	ug/l		95
37) Ethyl Acetate	6.988	43	46750	20.792	ug/l		97
38) Carbon Tetrachloride	7.817	117	95298	20.095	ug/l		98
39) Methylcyclohexane	9.109	83	111001	18.545	ug/l	#	90
40) Benzene	8.079	78	272265	19.779	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020223.D
Acq On : 08 Nov 2024 11:19
Operator : SY/MD
Sample : VY1108SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 22:15:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.213	41	21885m	19.430 ug/l		
42) 1,2-Dichloroethane	8.158	62	77775	20.412 ug/l		93
43) Isopropyl Acetate	8.201	43	87572	20.254 ug/l	#	91
44) Trichloroethene	8.865	130	62736	19.664 ug/l		93
45) 1,2-Dichloropropane	9.146	63	67580	20.520 ug/l		97
46) Dibromomethane	9.231	93	36747	20.592 ug/l	#	87
47) Bromodichloromethane	9.420	83	96743	20.694 ug/l		98
48) Methyl methacrylate	9.219	41	40024	19.985 ug/l	#	83
49) 1,4-Dioxane	9.231	88	8212	446.978 ug/l	#	83
51) 4-Methyl-2-Pentanone	9.999	43	229754	103.128 ug/l		89
52) Toluene	10.170	92	168972	19.914 ug/l		100
53) t-1,3-Dichloropropene	10.396	75	82563	20.000 ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	99987	20.292 ug/l	#	84
55) 1,1,2-Trichloroethane	10.572	97	45502	20.508 ug/l		88
56) Ethyl methacrylate	10.438	69	65582	20.606 ug/l	#	76
57) 1,3-Dichloropropane	10.719	76	84197	20.722 ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	160759	102.420 ug/l		93
59) 2-Hexanone	10.761	43	161836	101.324 ug/l		87
60) Dibromochloromethane	10.908	129	58416	20.654 ug/l		98
61) 1,2-Dibromoethane	11.011	107	42135	20.440 ug/l		99
64) Tetrachloroethene	10.646	164	55766	20.476 ug/l		92
65) Chlorobenzene	11.444	112	176523	20.085 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	58298	20.761 ug/l		98
67) Ethyl Benzene	11.517	91	325752	19.828 ug/l		97
68) m/p-Xylenes	11.627	106	244337	40.649 ug/l		92
69) o-Xylene	11.956	106	113780	19.993 ug/l		91
70) Styrene	11.969	104	194693	20.691 ug/l		96
71) Bromoform	12.133	173	30755	21.350 ug/l	#	97
73) Isopropylbenzene	12.255	105	309233	20.601 ug/l		98
74) N-amyl acetate	12.072	43	75918	20.233 ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	54990	20.947 ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	35235m	20.004 ug/l		
77) Bromobenzene	12.536	156	61738	20.337 ug/l		81
78) n-propylbenzene	12.596	91	384577	20.586 ug/l		96
79) 2-Chlorotoluene	12.682	91	213334	20.572 ug/l		95
80) 1,3,5-Trimethylbenzene	12.737	105	252266	20.933 ug/l		94
81) trans-1,4-Dichloro-2-b...	12.304	75	16355	19.972 ug/l	#	77
82) 4-Chlorotoluene	12.779	91	223419	21.131 ug/l		93
83) tert-Butylbenzene	12.999	119	222484	21.113 ug/l		94
84) 1,2,4-Trimethylbenzene	13.042	105	247789	20.759 ug/l		96
85) sec-Butylbenzene	13.176	105	332551	20.557 ug/l		98
86) p-Isopropyltoluene	13.291	119	269447	20.756 ug/l		96
87) 1,3-Dichlorobenzene	13.285	146	128275	20.800 ug/l		97
88) 1,4-Dichlorobenzene	13.365	146	126506	20.598 ug/l		96
89) n-Butylbenzene	13.621	91	266030	20.443 ug/l		97
90) Hexachloroethane	13.883	117	52805	20.568 ug/l		82
91) 1,2-Dichlorobenzene	13.663	146	109921	20.506 ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.279	75	8552	21.481 ug/l		68
93) 1,2,4-Trichlorobenzene	14.925	180	56984	19.788 ug/l		97
94) Hexachlorobutadiene	15.023	225	30714	19.505 ug/l		99
95) Naphthalene	15.145	128	106502	19.785 ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	46837	19.161 ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020223.D
Acq On : 08 Nov 2024 11:19
Operator : SY/MD
Sample : VY1108SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 22:15:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024

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

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

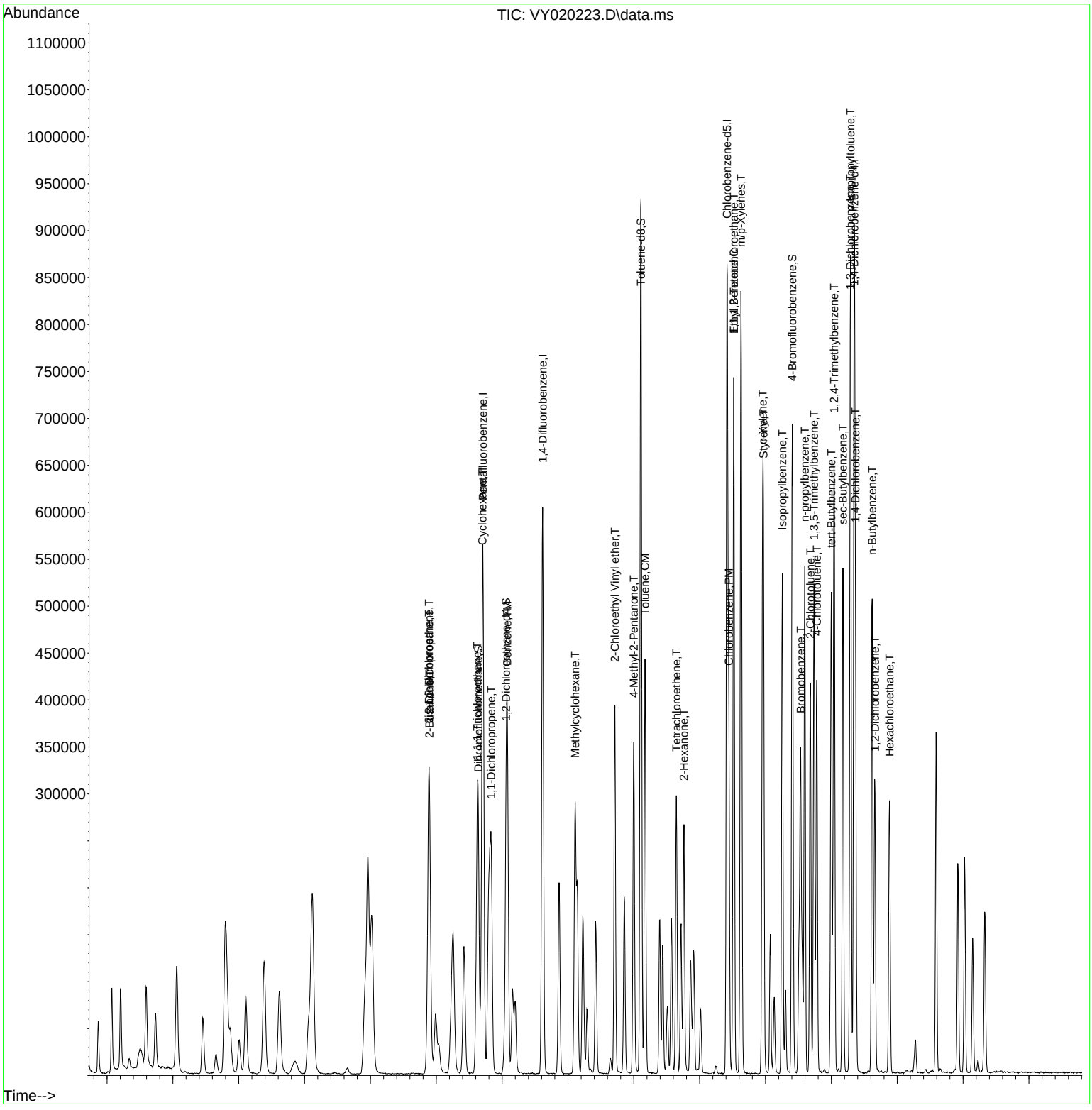
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020223.D
Acq On : 08 Nov 2024 11:19
Operator : SY/MD
Sample : VY1108SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 22:15:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084847.D
Acq On : 14 Nov 2024 13:24
Operator : JC\MD
Sample : VN1114WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 04:45:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	161141	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	263729	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	229436	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	112382	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	115342	49.558	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.120%			
35) Dibromofluoromethane	8.165	113	91480	51.246	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.500%			
50) Toluene-d8	10.565	98	331841	50.464	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.920%			
62) 4-Bromofluorobenzene	12.847	95	126298	51.391	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.780%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	34657	18.709	ug/l	99
3) Chloromethane	2.359	50	39882	16.668	ug/l	97
4) Vinyl Chloride	2.512	62	42327	21.244	ug/l	97
5) Bromomethane	2.901	94	22008	20.848	ug/l	95
6) Chloroethane	3.089	64	28234	22.115	ug/l	93
7) Trichlorofluoromethane	3.477	101	64120	19.537	ug/l	99
8) Diethyl Ether	3.948	74	24623	21.268	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.359	101	36910	19.902	ug/l	95
10) Methyl Iodide	4.571	142	52362	21.126	ug/l	97
11) Tert butyl alcohol	5.530	59	32545	105.936	ug/l #	88
12) 1,1-Dichloroethene	4.330	96	35801	19.509	ug/l	90
13) Acrolein	4.171	56	32198	105.104	ug/l	98
14) Allyl chloride	5.018	41	57145	19.202	ug/l	93
15) Acrylonitrile	5.712	53	92434	103.932	ug/l	97
16) Acetone	4.424	43	73293	107.391	ug/l	96
17) Carbon Disulfide	4.706	76	97238	17.207	ug/l	97
18) Methyl Acetate	5.018	43	47690	16.766	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	122338	21.751	ug/l	98
20) Methylene Chloride	5.271	84	40866	19.964	ug/l	95
21) trans-1,2-Dichloroethene	5.777	96	35914	19.060	ug/l	97
22) Diisopropyl ether	6.671	45	121166	20.490	ug/l	95
23) Vinyl Acetate	6.595	43	433905	106.404	ug/l	97
24) 1,1-Dichloroethane	6.559	63	72333	20.374	ug/l	100
25) 2-Butanone	7.483	43	115624	106.486	ug/l	98
26) 2,2-Dichloropropane	7.483	77	65406	21.167	ug/l	99
27) cis-1,2-Dichloroethene	7.477	96	44912	20.413	ug/l	97
28) Bromochloromethane	7.806	49	31617	22.353	ug/l	93
29) Tetrahydrofuran	7.836	42	74437	103.335	ug/l	94
30) Chloroform	7.965	83	74650	20.659	ug/l	94
31) Cyclohexane	8.247	56	60211	18.738	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	68509	20.830	ug/l	94
36) 1,1-Dichloropropene	8.365	75	50330	20.329	ug/l	99
37) Ethyl Acetate	7.553	43	48091	21.410	ug/l	98
38) Carbon Tetrachloride	8.353	117	58992	21.318	ug/l	95
39) Methylcyclohexane	9.600	83	54807	21.761	ug/l	99
40) Benzene	8.600	78	161059	20.257	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084847.D
Acq On : 14 Nov 2024 13:24
Operator : JC\MD
Sample : VN1114WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 04:45:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	26930	22.294 ug/l		96
42) 1,2-Dichloroethane	8.665	62	54875	21.311 ug/l		100
43) Isopropyl Acetate	8.683	43	85877	20.118 ug/l		97
44) Trichloroethene	9.347	130	38223	20.845 ug/l		95
45) 1,2-Dichloropropane	9.618	63	39625	21.246 ug/l		97
46) Dibromomethane	9.706	93	27887	21.189 ug/l		94
47) Bromodichloromethane	9.883	83	58538	21.101 ug/l	#	99
48) Methyl methacrylate	9.677	41	37031	21.183 ug/l		95
49) 1,4-Dioxane	9.694	88	13600	439.009 ug/l	#	94
51) 4-Methyl-2-Pentanone	10.441	43	237670	110.992 ug/l		97
52) Toluene	10.624	92	101527	21.834 ug/l		98
53) t-1,3-Dichloropropene	10.830	75	59212	20.620 ug/l		97
54) cis-1,3-Dichloropropene	10.306	75	64268	21.146 ug/l		97
55) 1,1,2-Trichloroethane	11.012	97	37149	21.209 ug/l		98
56) Ethyl methacrylate	10.871	69	58624	23.138 ug/l		94
57) 1,3-Dichloropropane	11.159	76	64292	21.387 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	130230	109.846 ug/l		96
59) 2-Hexanone	11.194	43	173018	111.006 ug/l		96
60) Dibromochloromethane	11.359	129	44362	22.222 ug/l		99
61) 1,2-Dibromoethane	11.465	107	38628	21.535 ug/l		98
64) Tetrachloroethene	11.100	164	33486	21.942 ug/l		96
65) Chlorobenzene	11.888	112	108271	21.094 ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	38558	21.596 ug/l		98
67) Ethyl Benzene	11.959	91	183387	21.404 ug/l		97
68) m/p-Xylenes	12.071	106	141376	43.585 ug/l		100
69) o-Xylene	12.394	106	67347	22.194 ug/l		97
70) Styrene	12.412	104	115059	21.737 ug/l		99
71) Bromoform	12.576	173	28987	21.577 ug/l	#	99
73) Isopropylbenzene	12.694	105	171691	21.801 ug/l		100
74) N-amyl acetate	12.494	43	70330	20.982 ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	54683	20.802 ug/l		98
76) 1,2,3-Trichloropropane	12.988	75	49434m	22.005 ug/l		
77) Bromobenzene	12.976	156	43721	20.651 ug/l		94
78) n-propylbenzene	13.035	91	197805	21.434 ug/l		98
79) 2-Chlorotoluene	13.124	91	131560	21.817 ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	147573	22.609 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	18920	19.981 ug/l		96
82) 4-Chlorotoluene	13.218	91	127715	20.125 ug/l		98
83) tert-Butylbenzene	13.435	119	122465	22.670 ug/l		97
84) 1,2,4-Trimethylbenzene	13.476	105	151544	22.495 ug/l		97
85) sec-Butylbenzene	13.612	105	168982	22.145 ug/l		100
86) p-Isopropyltoluene	13.729	119	141525	22.614 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	80206	19.412 ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	81235	20.758 ug/l		99
89) n-Butylbenzene	14.053	91	118386	20.223 ug/l		99
90) Hexachloroethane	14.329	117	27754	19.886 ug/l		97
91) 1,2-Dichlorobenzene	14.106	146	76994	19.392 ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.718	75	10107	18.979 ug/l		94
93) 1,2,4-Trichlorobenzene	15.388	180	40082	18.444 ug/l		97
94) Hexachlorobutadiene	15.494	225	19258	20.179 ug/l		96
95) Naphthalene	15.635	128	121654	18.702 ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	38027	18.026 ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084847.D
Acq On : 14 Nov 2024 13:24
Operator : JC\MD
Sample : VN1114WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 04:45:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

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

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

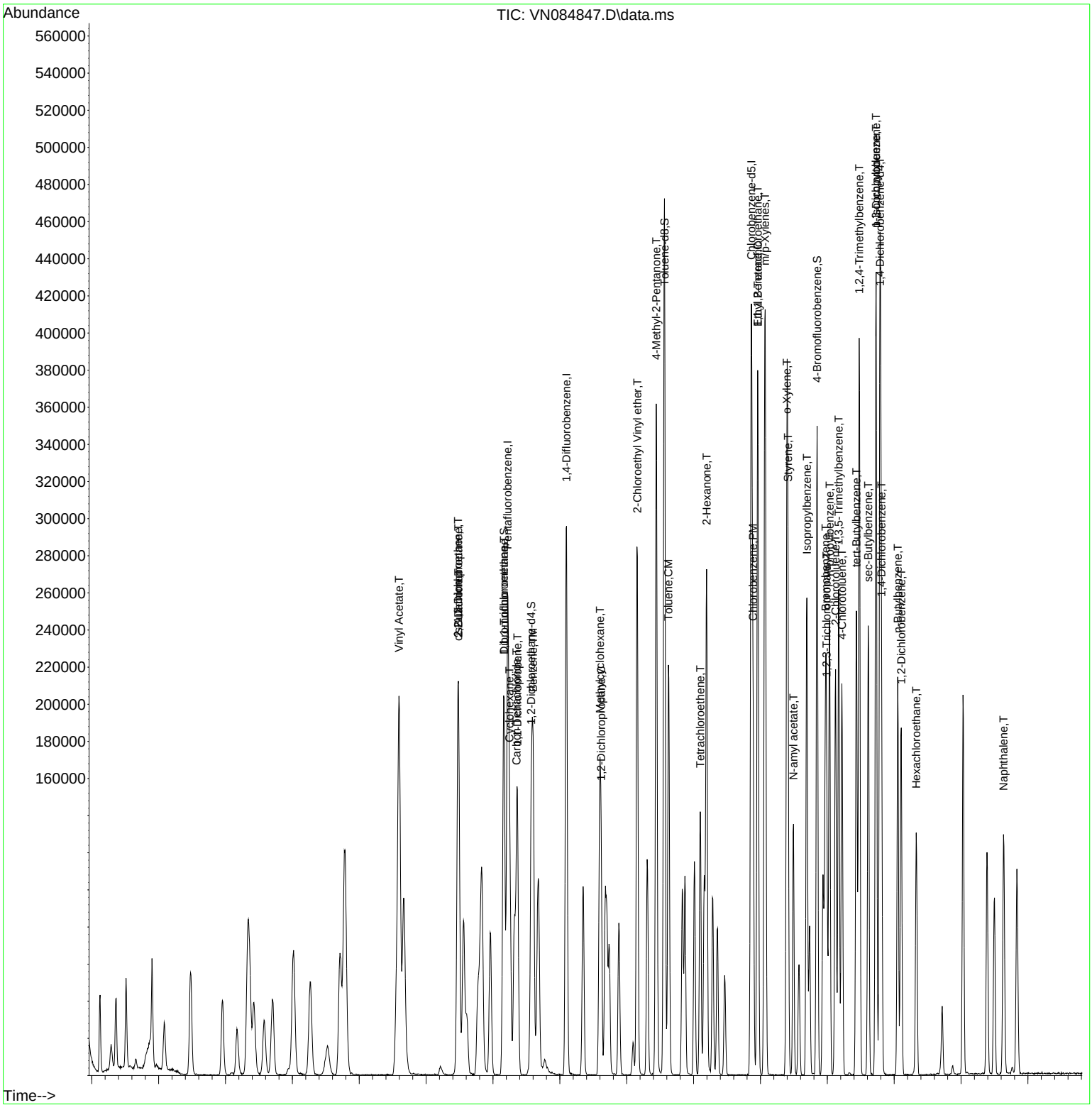
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084847.D
Acq On : 14 Nov 2024 13:24
Operator : JC\MD
Sample : VN1114WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 04:45:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020224.D
Acq On : 08 Nov 2024 11:41
Operator : SY/MD
Sample : VY1108SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:16:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBSD01

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	271139	50.000	ug/l	#	0.00
34) 1,4-Difluorobenzene	8.616	114	485080	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	417238	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	193395	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	195685	57.827	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 115.660%				
35) Dibromofluoromethane	7.634	113	170852	55.397	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.800%				
50) Toluene-d8	10.103	98	667038	54.336	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 108.680%				
62) 4-Bromofluorobenzene	12.402	95	221103	55.449	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 110.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	49920	19.889	ug/l		97
3) Chloromethane	2.068	50	82312	19.799	ug/l		96
4) Vinyl Chloride	2.202	62	91155	20.424	ug/l		98
5) Bromomethane	2.592	94	62724	21.168	ug/l		98
6) Chloroethane	2.733	64	61200	21.247	ug/l		97
7) Trichlorofluoromethane	3.056	101	123063	22.571	ug/l		96
8) Diethyl Ether	3.458	74	34394	22.618	ug/l		78
9) 1,1,2-Trichlorotrifluo...	3.818	101	65701	21.484	ug/l		91
10) Methyl Iodide	4.001	142	62944	21.319	ug/l	#	90
11) Tert butyl alcohol	4.860	59	29773	122.315	ug/l		100
12) 1,1-Dichloroethene	3.787	96	61754	21.106	ug/l	#	80
13) Acrolein	3.653	56	25340	83.628	ug/l		99
14) Allyl chloride	4.385	41	109811	20.802	ug/l	#	89
15) Acrylonitrile	5.055	53	82269	118.850	ug/l		97
16) Acetone	3.873	43	90104	114.496	ug/l	#	84
17) Carbon Disulfide	4.110	76	175241	17.997	ug/l		100
18) Methyl Acetate	4.391	43	45306	24.537	ug/l	#	88
19) Methyl tert-butyl Ether	5.116	73	173941	23.630	ug/l		99
20) Methylene Chloride	4.616	84	72163	20.413	ug/l	#	83
21) trans-1,2-Dichloroethene	5.116	96	67144	20.348	ug/l	#	81
22) Diisopropyl ether	6.019	45	242120	22.102	ug/l	#	90
23) Vinyl Acetate	5.964	43	680864	110.440	ug/l	#	91
24) 1,1-Dichloroethane	5.915	63	136567	21.530	ug/l		96
25) 2-Butanone	6.897	43	123748	116.003	ug/l		89
26) 2,2-Dichloropropane	6.890	77	111309	21.090	ug/l		95
27) cis-1,2-Dichloroethene	6.890	96	80096	21.115	ug/l		81
28) Bromochloromethane	7.244	49	52704	17.744	ug/l	#	76
29) Tetrahydrofuran	7.262	42	73648	119.630	ug/l	#	82
30) Chloroform	7.421	83	137707	21.877	ug/l		97
31) Cyclohexane	7.701	56	117110	19.070	ug/l		94
32) 1,1,1-Trichloroethane	7.616	97	118105	21.491	ug/l	#	93
36) 1,1-Dichloropropene	7.835	75	95406	20.025	ug/l		95
37) Ethyl Acetate	6.982	43	51726	22.772	ug/l		96
38) Carbon Tetrachloride	7.817	117	100682	21.015	ug/l		95
39) Methylcyclohexane	9.110	83	119168	19.708	ug/l		90
40) Benzene	8.079	78	289675	20.831	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020224.D
Acq On : 08 Nov 2024 11:41
Operator : SY/MD
Sample : VY1108SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:16:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBSD01

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.226	41	24800	21.796 ug/l		92
42) 1,2-Dichloroethane	8.159	62	86471	22.465 ug/l		94
43) Isopropyl Acetate	8.201	43	99253	22.723 ug/l	#	90
44) Trichloroethene	8.866	130	68099	21.129 ug/l		91
45) 1,2-Dichloropropane	9.140	63	72909	21.914 ug/l		97
46) Dibromomethane	9.231	93	39224	21.758 ug/l	#	88
47) Bromodichloromethane	9.420	83	104768	22.184 ug/l		97
48) Methyl methacrylate	9.219	41	47828	23.640 ug/l	#	82
49) 1,4-Dioxane	9.225	88	9508	512.279 ug/l	#	95
51) 4-Methyl-2-Pentanone	10.000	43	271628	120.689 ug/l		89
52) Toluene	10.170	92	183058	21.355 ug/l		99
53) t-1,3-Dichloropropene	10.390	75	92142	22.094 ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	107858	21.668 ug/l	#	86
55) 1,1,2-Trichloroethane	10.573	97	51284	22.880 ug/l		95
56) Ethyl methacrylate	10.439	69	73975	23.007 ug/l	#	74
57) 1,3-Dichloropropane	10.719	76	93073	22.675 ug/l		98
58) 2-Chloroethyl Vinyl ether	9.707	63	182559	115.131 ug/l		92
59) 2-Hexanone	10.762	43	187054	115.928 ug/l		86
60) Dibromochloromethane	10.908	129	65059	22.770 ug/l		100
61) 1,2-Dibromoethane	11.012	107	46897	22.520 ug/l		99
64) Tetrachloroethene	10.646	164	58916	21.386 ug/l		91
65) Chlorobenzene	11.438	112	190748	21.456 ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.518	131	64037	22.545 ug/l		98
67) Ethyl Benzene	11.518	91	352732	21.225 ug/l		97
68) m/p-Xylenes	11.627	106	258647	42.539 ug/l		91
69) o-Xylene	11.957	106	123837	21.512 ug/l		93
70) Styrene	11.969	104	207317	21.781 ug/l		95
71) Bromoform	12.133	173	34348	23.572 ug/l	#	96
73) Isopropylbenzene	12.255	105	334466	21.649 ug/l		97
74) N-amyl acetate	12.072	43	88072	22.805 ug/l	#	88
75) 1,1,2,2-Tetrachloroethane	12.505	83	61424	22.733 ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	43978m	24.259 ug/l		
77) Bromobenzene	12.530	156	68337	21.871 ug/l		81
78) n-propylbenzene	12.597	91	410166	21.332 ug/l		96
79) 2-Chlorotoluene	12.676	91	228128	21.374 ug/l		94
80) 1,3,5-Trimethylbenzene	12.737	105	267878	21.597 ug/l		96
81) trans-1,4-Dichloro-2-b...	12.304	75	18151	21.536 ug/l	#	75
82) 4-Chlorotoluene	12.774	91	237233	21.800 ug/l		94
83) tert-Butylbenzene	12.999	119	238522	21.992 ug/l		94
84) 1,2,4-Trimethylbenzene	13.042	105	262514	21.368 ug/l		96
85) sec-Butylbenzene	13.176	105	357370	21.464 ug/l		97
86) p-Isopropyltoluene	13.292	119	286887	21.472 ug/l		96
87) 1,3-Dichlorobenzene	13.286	146	137025	21.588 ug/l		97
88) 1,4-Dichlorobenzene	13.365	146	133887	21.181 ug/l		95
89) n-Butylbenzene	13.615	91	281888	21.046 ug/l		97
90) Hexachloroethane	13.883	117	57610	21.802 ug/l		81
91) 1,2-Dichlorobenzene	13.658	146	121185	21.965 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	9590	23.404 ug/l		72
93) 1,2,4-Trichlorobenzene	14.919	180	62072	20.943 ug/l		97
94) Hexachlorobutadiene	15.023	225	33501	20.671 ug/l		97
95) Naphthalene	15.145	128	122076	22.034 ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	51280	20.382 ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020224.D
Acq On : 08 Nov 2024 11:41
Operator : SY/MD
Sample : VY1108SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:16:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBSD01

Manual Integrations APPROVED

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

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

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

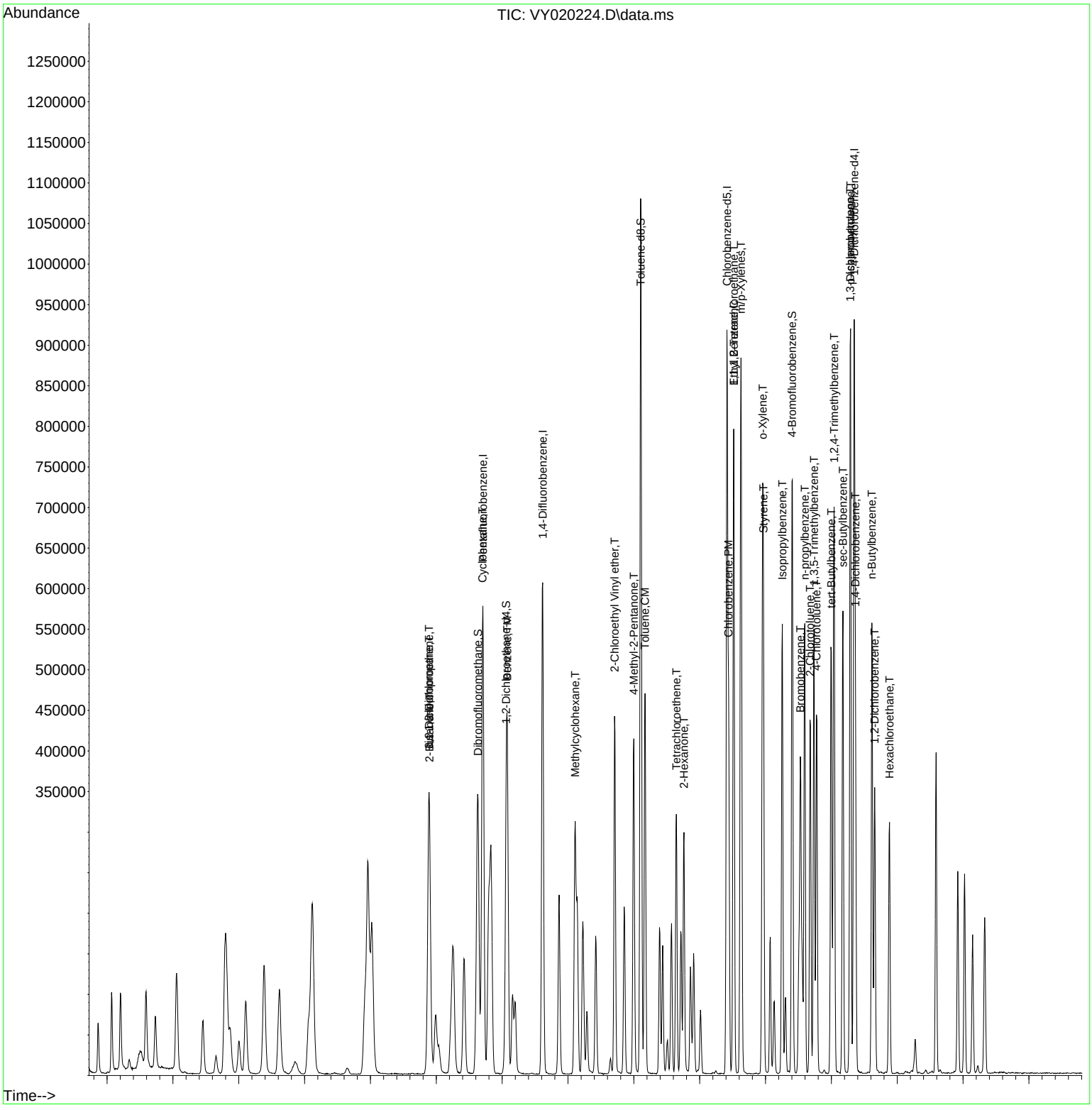
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020224.D
Acq On : 08 Nov 2024 11:41
Operator : SY/MD
Sample : VY1108SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:16:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBSD01

Manual Integrations APPROVED

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



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

Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084570.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:14 AM	MMDadoda	11/4/2024 1:18:00 AM	Peak Integrated by Software
VSTDICCC050	VN084571.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:15 AM	MMDadoda	11/4/2024 1:18:01 AM	Peak Integrated by Software
VSTDICC020	VN084572.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:16 AM	MMDadoda	11/4/2024 1:18:03 AM	Peak Integrated by Software
VSTDICC010	VN084573.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:17 AM	MMDadoda	11/4/2024 1:18:04 AM	Peak Integrated by Software
VSTDICC005	VN084574.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:20 AM	MMDadoda	11/4/2024 1:18:05 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,4-Dichlorobenzene	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Acetone	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Diethyl Ether	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICV050	VN084577.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:23 AM	MMDadoda	11/4/2024 1:18:09 AM	Peak Integrated by Software
VSTDCCC050	VN084579.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software
VSTDCCC050	VN084579.D	trans-1,4-Dichloro-2-but ene	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

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

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

Manual Integration Report

Sequence:	VN111424	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084842.D	1,2,3-Trichloropropane	JOHN	11/15/2024 9:36:11 AM	MMDadoda	11/15/2024 3:54:21 PM	Peak Integrated by Software
VSTDCCC050	VN084842.D	trans-1,4-Dichloro-2-but ene	JOHN	11/15/2024 9:36:11 AM	MMDadoda	11/15/2024 3:54:21 PM	Peak Integrated by Software
VN1114WBS02	VN084846.D	1,2,3-Trichloropropane	JOHN	11/15/2024 9:36:19 AM	MMDadoda	11/15/2024 3:54:24 PM	Peak Integrated by Software
VN1114WBSD0 2	VN084847.D	1,2,3-Trichloropropane	JOHN	11/15/2024 9:36:24 AM	MMDadoda	11/15/2024 3:54:26 PM	Peak Integrated by Software
VSTDCCC050	VN084865.D	1,2,3-Trichloropropane	JOHN	11/15/2024 9:36:40 AM	MMDadoda	11/15/2024 3:54:27 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY103024	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY020075.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:41:29 AM	MMDadoda	11/1/2024 5:33:21 PM	Peak Integrated by Software
VSTDICC005	VY020075.D	Ethyl Acetate	Romaben	11/1/2024 11:41:29 AM	MMDadoda	11/1/2024 5:33:21 PM	Peak Integrated by Software
VSTDICC010	VY020076.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:41:32 AM	MMDadoda	11/1/2024 5:33:22 PM	Peak Integrated by Software
VSTDICC020	VY020077.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:16 AM	MMDadoda	11/1/2024 5:33:23 PM	Peak Integrated by Software
VSTDICCC050	VY020078.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:03 AM	MMDadoda	11/1/2024 5:33:25 PM	Peak Integrated by Software
VSTDICCC050	VY020078.D	Methacrylonitrile	Romaben	11/1/2024 11:42:03 AM	MMDadoda	11/1/2024 5:33:25 PM	Peak Integrated by Software
VSTDICC100	VY020079.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:20 AM	MMDadoda	11/1/2024 5:33:26 PM	Peak Integrated by Software
VSTDICC150	VY020080.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:07 AM	MMDadoda	11/1/2024 5:33:28 PM	Peak Integrated by Software
VSTDICV050	VY020082.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:10 AM	MMDadoda	11/1/2024 5:33:29 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vy110824	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020221.D	1,2,3-Trichloropropane	MMDadoda	11/11/2024 12:59:56 PM	SAM	11/11/2024 1:01:03 PM	Peak Integrated by Software
VY1108SBS01	VY020223.D	1,2,3-Trichloropropane	Romaben	11/11/2024 10:26:52 AM	MMDadoda	11/11/2024 12:59:56 PM	Peak Integrated by Software
VY1108SBS01	VY020223.D	Methacrylonitrile	Romaben	11/11/2024 10:26:52 AM	MMDadoda	11/11/2024 12:59:56 PM	Peak Integrated by Software
VY1108SBSD01	VY020224.D	1,2,3-Trichloropropane	MMDadoda	11/11/2024 12:59:58 PM	SAM	11/11/2024 1:01:03 PM	Peak Integrated by Software
VSTDCCC050	VY020237.D	1,2,3-Trichloropropane	MMDadoda	11/11/2024 12:59:59 PM	SAM	11/11/2024 1:01:04 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 # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM				
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM				
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084569.D	30 Oct 2024 10:42	JC\MD	Ok
2	VSTDICC100	VN084570.D	30 Oct 2024 11:46	JC\MD	Ok,M
3	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	JC\MD	Ok,M
4	VSTDICC020	VN084572.D	30 Oct 2024 12:33	JC\MD	Ok,M
5	VSTDICC010	VN084573.D	30 Oct 2024 12:57	JC\MD	Ok,M
6	VSTDICC005	VN084574.D	30 Oct 2024 13:21	JC\MD	Ok,M
7	VSTDICC001	VN084575.D	30 Oct 2024 13:45	JC\MD	Ok,M
8	VIBLK	VN084576.D	30 Oct 2024 14:42	JC\MD	Ok
9	VSTDICV050	VN084577.D	30 Oct 2024 15:06	JC\MD	Ok,M
10	BFB	VN084578.D	30 Oct 2024 19:24	JC\MD	Ok
11	VSTDCCC050	VN084579.D	30 Oct 2024 20:12	JC\MD	Ok,M
12	VN1030MBL01	VN084580.D	30 Oct 2024 20:48	JC\MD	Ok
13	VN1030WBL01	VN084581.D	30 Oct 2024 21:12	JC\MD	Ok
14	VN1030WBS01	VN084582.D	30 Oct 2024 21:46	JC\MD	Ok,M
15	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10	JC\MD	Ok,M
16	P4594-04	VN084584.D	30 Oct 2024 22:34	JC\MD	Ok,M
17	P4594-08	VN084585.D	30 Oct 2024 22:58	JC\MD	Ok
18	P4594-12	VN084586.D	30 Oct 2024 23:22	JC\MD	Ok
19	P4594-16	VN084587.D	30 Oct 2024 23:46	JC\MD	Ok
20	P4594-20	VN084588.D	31 Oct 2024 00:09	JC\MD	Ok
21	P4597-03	VN084589.D	31 Oct 2024 00:34	JC\MD	Ok

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 # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM				
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM				
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4597-06	VN084590.D	31 Oct 2024 00:57	JC\MD	Ok,M
23	P4597-09	VN084591.D	31 Oct 2024 01:21	JC\MD	Ok
24	P4597-12	VN084592.D	31 Oct 2024 01:45	JC\MD	Ok,M
25	P4598-04	VN084593.D	31 Oct 2024 02:09	JC\MD	Ok
26	P4598-08	VN084594.D	31 Oct 2024 02:33	JC\MD	Ok
27	P4598-12	VN084595.D	31 Oct 2024 02:57	JC\MD	Ok
28	P4611-03	VN084596.D	31 Oct 2024 03:21	JC\MD	Ok
29	P4611-06	VN084597.D	31 Oct 2024 03:45	JC\MD	Ok
30	P4611-09	VN084598.D	31 Oct 2024 04:09	JC\MD	Ok
31	P4611-12	VN084599.D	31 Oct 2024 04:33	JC\MD	Ok
32	P4611-15	VN084600.D	31 Oct 2024 04:57	JC\MD	Ok
33	P4611-18	VN084601.D	31 Oct 2024 05:21	JC\MD	Ok
34	P4612-04	VN084602.D	31 Oct 2024 05:45	JC\MD	Ok
35	P4613-02	VN084603.D	31 Oct 2024 06:09	JC\MD	Ok
36	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	JC\MD	Ok,M
37	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	JC\MD	Ok,M
38	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	JC\MD	Ok,M
39	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	JC\MD	Ok
40	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	JC\MD	Ok,M
41	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	JC\MD	Ok,M
42	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	JC\MD	Ok,M
43	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	JC\MD	Ok

M : Manual Integration

Alliance TECHNICAL GROUP
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 # VN111424

Review By	John Carlone	Review On	11/15/2024 10:01:35 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/15/2024 3:54:33 PM		
SubDirectory	VN111424	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131460
Initial Calibration Stds	
CCC	VP131461,VP131462
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084841.D	14 Nov 2024 08:53	JC\MD	Ok
2	VSTDCCC050	VN084842.D	14 Nov 2024 09:54	JC\MD	Ok,M
3	VN1114MBL01	VN084843.D	14 Nov 2024 10:28	JC\MD	Ok
4	VN1114WBL01	VN084844.D	14 Nov 2024 10:52	JC\MD	Ok
5	VN1114WBS01	VN084845.D	14 Nov 2024 11:53	JC\MD	Not Ok
6	VN1114WBS02	VN084846.D	14 Nov 2024 12:50	JC\MD	Ok,M
7	VN1114WBSD02	VN084847.D	14 Nov 2024 13:24	JC\MD	Ok,M
8	P4844-01	VN084848.D	14 Nov 2024 13:48	JC\MD	ReRun
9	IBLK	VN084849.D	14 Nov 2024 14:12	JC\MD	Ok
10	P4844-02	VN084850.D	14 Nov 2024 14:36	JC\MD	Ok
11	P4718-05	VN084851.D	14 Nov 2024 14:59	JC\MD	Ok
12	P4819-01	VN084852.D	14 Nov 2024 15:23	JC\MD	Ok
13	P4718-04	VN084853.D	14 Nov 2024 15:47	JC\MD	Ok
14	PB164945TB	VN084854.D	14 Nov 2024 16:11	JC\MD	Ok
15	PB164927TB	VN084855.D	14 Nov 2024 16:35	JC\MD	Ok
16	P4821-04	VN084856.D	14 Nov 2024 16:59	JC\MD	Ok
17	P4821-08	VN084857.D	14 Nov 2024 17:23	JC\MD	Ok
18	P4823-04	VN084858.D	14 Nov 2024 17:47	JC\MD	Ok
19	P4833-04	VN084859.D	14 Nov 2024 18:10	JC\MD	Ok
20	P4833-08	VN084860.D	14 Nov 2024 18:34	JC\MD	Ok
21	P4770-01	VN084861.D	14 Nov 2024 18:58	JC\MD	ReRun

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 # VN111424

Review By	John Carlone	Review On	11/15/2024 10:01:35 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/15/2024 3:54:33 PM		
SubDirectory	VN111424	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131460
Initial Calibration Stds	
CCC	VP131461,VP131462
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4770-02	VN084862.D	14 Nov 2024 19:22	JC\MD	ReRun
23	P4770-03	VN084863.D	14 Nov 2024 19:46	JC\MD	Ok
24	IBLK	VN084864.D	14 Nov 2024 20:10	JC\MD	Ok
25	VSTDCCC050	VN084865.D	14 Nov 2024 20:34	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 # VY103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:33:31 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:33:47 PM		
SubDirectory	VY103024	HP Acquire Method		HP Processing Method	82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131199
Initial Calibration Stds	VP131200,VP131201,VP131203,VP131204,VP131205,VP131206
CCC	
Internal Standard/PEM	VP128297
ICV/I.BLK	VP131207
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020074.D	30 Oct 2024 12:07	SY/MD	Ok
2	VSTDICC005	VY020075.D	30 Oct 2024 12:39	SY/MD	Ok,M
3	VSTDICC010	VY020076.D	30 Oct 2024 13:02	SY/MD	Ok,M
4	VSTDICC020	VY020077.D	30 Oct 2024 13:24	SY/MD	Ok,M
5	VSTDICCC050	VY020078.D	30 Oct 2024 14:06	SY/MD	Ok,M
6	VSTDICC100	VY020079.D	30 Oct 2024 14:29	SY/MD	Ok,M
7	VSTDICC150	VY020080.D	30 Oct 2024 14:52	SY/MD	Ok,M
8	VIBLK	VY020081.D	30 Oct 2024 15:15	SY/MD	Ok
9	VSTDICV050	VY020082.D	30 Oct 2024 15:47	SY/MD	Not Ok

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 # VY110824

Review By	Mahesh Dadoda	Review On	11/9/2024 4:18:55 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	11/11/2024 1:01:08 PM				
SubDirectory	VY110824	HP Acquire Method	MSVOA_Y	HP Processing Method	82y103024s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131341
Initial Calibration Stds	
CCC	VP131342,VP131343
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020220.D	08 Nov 2024 08:45	SY/MD	Ok
2	VSTDCCC050	VY020221.D	08 Nov 2024 09:33	SY/MD	Ok,M
3	VY1108SBL01	VY020222.D	08 Nov 2024 10:40	SY/MD	Ok
4	VY1108SBS01	VY020223.D	08 Nov 2024 11:19	SY/MD	Ok,M
5	VY1108SBSD01	VY020224.D	08 Nov 2024 11:41	SY/MD	Ok,M
6	P4734-01	VY020225.D	08 Nov 2024 12:05	SY/MD	Ok
7	P4720-02	VY020226.D	08 Nov 2024 12:28	SY/MD	ReRun
8	P4739-03RE	VY020227.D	08 Nov 2024 12:51	SY/MD	Not Ok
9	P4720-02RE	VY020228.D	08 Nov 2024 13:15	SY/MD	Confirms
10	P4739-15	VY020229.D	08 Nov 2024 13:38	SY/MD	Ok
11	P4722-01	VY020230.D	08 Nov 2024 14:02	SY/MD	Ok
12	P4771-07	VY020231.D	08 Nov 2024 14:25	SY/MD	Ok
13	P4771-05	VY020232.D	08 Nov 2024 14:48	SY/MD	Ok
14	P4718-01	VY020233.D	08 Nov 2024 15:12	SY/MD	Ok
15	P4718-02	VY020234.D	08 Nov 2024 15:35	SY/MD	Ok
16	P4756-03	VY020235.D	08 Nov 2024 15:59	SY/MD	Ok
17	P4737-01	VY020236.D	08 Nov 2024 17:49	SY/MD	Ok
18	VSTDCCC050	VY020237.D	08 Nov 2024 18:12	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_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084569.D	30 Oct 2024 10:42		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN084570.D	30 Oct 2024 11:46	Comp #03 fail for %D	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	LR-03,06,16,18,43	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN084572.D	30 Oct 2024 12:33	QR-88	JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN084573.D	30 Oct 2024 12:57		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN084574.D	30 Oct 2024 13:21		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN084575.D	30 Oct 2024 13:45		JC\MD	Ok,M
8	VIBLK	VIBLK	VN084576.D	30 Oct 2024 14:42		JC\MD	Ok
9	VSTDICV050	ICVVN103024	VN084577.D	30 Oct 2024 15:06		JC\MD	Ok,M
10	BFB	BFB	VN084578.D	30 Oct 2024 19:24		JC\MD	Ok
11	VSTDCCC050	VSTDCCC050	VN084579.D	30 Oct 2024 20:12		JC\MD	Ok,M
12	VN1030MBL01	VN1030MBL01	VN084580.D	30 Oct 2024 20:48		JC\MD	Ok
13	VN1030WBL01	VN1030WBL01	VN084581.D	30 Oct 2024 21:12		JC\MD	Ok
14	VN1030WBS01	VN1030WBS01	VN084582.D	30 Oct 2024 21:46		JC\MD	Ok,M
15	VN1030WBSD01	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10		JC\MD	Ok,M
16	P4594-04	TP-4	VN084584.D	30 Oct 2024 22:34	pH#5.0 A	JC\MD	Ok,M
17	P4594-08	BP-F17	VN084585.D	30 Oct 2024 22:58	pH#5.0 A	JC\MD	Ok
18	P4594-12	BP-F16	VN084586.D	30 Oct 2024 23:22	pH#5.0 A	JC\MD	Ok

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 # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4594-16	TP-5	VN084587.D	30 Oct 2024 23:46	pH#7.0 A	JC\MD	Ok
20	P4594-20	BP-F15	VN084588.D	31 Oct 2024 00:09	pH#6.0 A	JC\MD	Ok
21	P4597-03	RED-1-1	VN084589.D	31 Oct 2024 00:34	pH#6.0 A	JC\MD	Ok
22	P4597-06	RED-1-2	VN084590.D	31 Oct 2024 00:57	pH#5.0 A	JC\MD	Ok,M
23	P4597-09	BLUE-2-1	VN084591.D	31 Oct 2024 01:21	pH#5.0 A	JC\MD	Ok
24	P4597-12	BLUE-2-2	VN084592.D	31 Oct 2024 01:45	pH#5.0 A	JC\MD	Ok,M
25	P4598-04	BP-F12	VN084593.D	31 Oct 2024 02:09	pH#7.0 A	JC\MD	Ok
26	P4598-08	BP-F11	VN084594.D	31 Oct 2024 02:33	pH#7.0 A	JC\MD	Ok
27	P4598-12	TP-8	VN084595.D	31 Oct 2024 02:57	pH#6.0 A	JC\MD	Ok
28	P4611-03	TP-1	VN084596.D	31 Oct 2024 03:21	pH#5.0 A	JC\MD	Ok
29	P4611-06	TP-2	VN084597.D	31 Oct 2024 03:45	pH#5.0 A	JC\MD	Ok
30	P4611-09	TP-3	VN084598.D	31 Oct 2024 04:09	pH#5.0 A	JC\MD	Ok
31	P4611-12	TP-4	VN084599.D	31 Oct 2024 04:33	pH#5.0 A	JC\MD	Ok
32	P4611-15	TP-5	VN084600.D	31 Oct 2024 04:57	pH#5.0 A	JC\MD	Ok
33	P4611-18	TP-6	VN084601.D	31 Oct 2024 05:21	pH#5.0 A	JC\MD	Ok
34	P4612-04	MOO-24-00335	VN084602.D	31 Oct 2024 05:45	pH#5.0 A	JC\MD	Ok
35	P4613-02	ARS20-0001	VN084603.D	31 Oct 2024 06:09	pH#5.0 A	JC\MD	Ok
36	PB164501ZHE#13	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	pH#5.0 A	JC\MD	Ok,M
37	PB164501ZHE#14	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	pH#5.0 A	JC\MD	Ok,M

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 # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	PB164501ZHE#15	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	pH#5.0 A	JC\MD	Ok,M
39	PB164501ZHE#16	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	pH#5.0 A	JC\MD	Ok
40	PB164501ZHE#17	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	pH#5.0 A	JC\MD	Ok,M
41	PB164501ZHE#18	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	pH#5.0 A	JC\MD	Ok,M
42	PB164501ZHE#19	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	pH#5.0 A	JC\MD	Ok,M
43	PB164501ZHE#20	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	pH#5.0 A	JC\MD	Ok

M : Manual Integration

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 # VN111424

Review By	John Carlone	Review On	11/15/2024 10:01:35 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/15/2024 3:54:33 PM		
SubDirectory	VN111424	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131460
Initial Calibration Stds	
CCC	VP131461,VP131462
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	VN084841.D	14 Nov 2024 08:53		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084842.D	14 Nov 2024 09:54	V13516	JC\MD	Ok,M
3	VN1114MBL01	VN1114MBL01	VN084843.D	14 Nov 2024 10:28		JC\MD	Ok
4	VN1114WBL01	VN1114WBL01	VN084844.D	14 Nov 2024 10:52		JC\MD	Ok
5	VN1114WBS01	VN1114WBS01	VN084845.D	14 Nov 2024 11:53	Recovery fail	JC\MD	Not Ok
6	VN1114WBS02	VN1114WBS02	VN084846.D	14 Nov 2024 12:50	BS high for com#69	JC\MD	Ok,M
7	VN1114WBSD02	VN1114WBSD02	VN084847.D	14 Nov 2024 13:24	BSD high for com#69	JC\MD	Ok,M
8	P4844-01	241113075-01-VOA	VN084848.D	14 Nov 2024 13:48	vial A pH#6.0 BS/BSD high	JC\MD	ReRun
9	IBLK	IBLK	VN084849.D	14 Nov 2024 14:12		JC\MD	Ok
10	P4844-02	241113050-06-TRIP-BL	VN084850.D	14 Nov 2024 14:36	vial A pH#6.0	JC\MD	Ok
11	P4718-05	TB-11042024	VN084851.D	14 Nov 2024 14:59	vial A pH<2 TB	JC\MD	Ok
12	P4819-01	1594	VN084852.D	14 Nov 2024 15:23	vial A pH#5.0	JC\MD	Ok
13	P4718-04	WB-307-SW	VN084853.D	14 Nov 2024 15:47	vial A pH<2	JC\MD	Ok
14	PB164945TB	PB164945TB	VN084854.D	14 Nov 2024 16:11		JC\MD	Ok
15	PB164927TB	PB164927TB	VN084855.D	14 Nov 2024 16:35		JC\MD	Ok
16	P4821-04	BP-F-24	VN084856.D	14 Nov 2024 16:59	vial A pH#5.0	JC\MD	Ok
17	P4821-08	BP-F-2	VN084857.D	14 Nov 2024 17:23	vial A pH#5.0	JC\MD	Ok
18	P4823-04	MH-4	VN084858.D	14 Nov 2024 17:47	vial A pH#5.0	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 # VN111424

Review By	John Carlone	Review On	11/15/2024 10:01:35 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/15/2024 3:54:33 PM		
SubDirectory	VN111424	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131460
Initial Calibration Stds	
CCC	VP131461,VP131462
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4833-04	MH-731	VN084859.D	14 Nov 2024 18:10	vial A pH#5.0	JC\MD	Ok
20	P4833-08	TP-2	VN084860.D	14 Nov 2024 18:34	vial A pH#5.0	JC\MD	Ok
21	P4770-01	MW-1	VN084861.D	14 Nov 2024 18:58	vial A pH<2 BS/BSD high	JC\MD	ReRun
22	P4770-02	MW-3	VN084862.D	14 Nov 2024 19:22	vial A pH<2 BS/BSD high	JC\MD	ReRun
23	P4770-03	MW-10	VN084863.D	14 Nov 2024 19:46	vial A pH<2	JC\MD	Ok
24	IBLK	IBLK	VN084864.D	14 Nov 2024 20:10		JC\MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VN084865.D	14 Nov 2024 20:34		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 # VY103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:33:31 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:33:47 PM		
SubDirectory	VY103024	HP Acquire Method		HP Processing Method	82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131199
Initial Calibration Stds	VP131200,VP131201,VP131203,VP131204,VP131205,VP131206
CCC	
Internal Standard/PEM	VP128297
ICV/I.BLK	VP131207
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020074.D	30 Oct 2024 12:07		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020075.D	30 Oct 2024 12:39	Method pass	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY020076.D	30 Oct 2024 13:02		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020077.D	30 Oct 2024 13:24		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY020078.D	30 Oct 2024 14:06		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020079.D	30 Oct 2024 14:29		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020080.D	30 Oct 2024 14:52		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020081.D	30 Oct 2024 15:15		SY/MD	Ok
9	VSTDICV050	ICVVY103024	VY020082.D	30 Oct 2024 15:47	fail icv	SY/MD	Not Ok

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 # VY110824

Review By	Mahesh Dadoda	Review On	11/9/2024 4:18:55 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/11/2024 1:01:08 PM		
SubDirectory	VY110824	HP Acquire Method	MSVOA_Y	HP Processing Method	82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131341
Initial Calibration Stds	
CCC	VP131342,VP131343
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020220.D	08 Nov 2024 08:45		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020221.D	08 Nov 2024 09:33	CCC high for com#16	SY/MD	Ok,M
3	VY1108SBL01	VY1108SBL01	VY020222.D	08 Nov 2024 10:40		SY/MD	Ok
4	VY1108SBS01	VY1108SBS01	VY020223.D	08 Nov 2024 11:19		SY/MD	Ok,M
5	VY1108SBSD01	VY1108SBSD01	VY020224.D	08 Nov 2024 11:41		SY/MD	Ok,M
6	P4734-01	EO-03-11062024	VY020225.D	08 Nov 2024 12:05	vial-B	SY/MD	Ok
7	P4720-02	JC-701-VOC-01	VY020226.D	08 Nov 2024 12:28	ISTD Fail vial-A	SY/MD	ReRun
8	P4739-03RE	TP-14-VOCRE	VY020227.D	08 Nov 2024 12:51	CCC high;Surrogate fail;Not match for comp. #39 vila-B	SY/MD	Not Ok
9	P4720-02RE	JC-701-VOC-01RE	VY020228.D	08 Nov 2024 13:15	ISTD Fail vial-B	SY/MD	Confirms
10	P4739-15	TP-11-VOC	VY020229.D	08 Nov 2024 13:38	vial-B	SY/MD	Ok
11	P4722-01	WC-1(5.5)	VY020230.D	08 Nov 2024 14:02	Vial B	SY/MD	Ok
12	P4771-07	P-2	VY020231.D	08 Nov 2024 14:25	Vial A	SY/MD	Ok
13	P4771-05	P-1	VY020232.D	08 Nov 2024 14:48	Vial A	SY/MD	Ok
14	P4718-01	WB-307-SB01	VY020233.D	08 Nov 2024 15:12	Vial A	SY/MD	Ok
15	P4718-02	WB-307-SB02	VY020234.D	08 Nov 2024 15:35	Vial A	SY/MD	Ok
16	P4756-03	BP-B4-VOC	VY020235.D	08 Nov 2024 15:59	vial-A	SY/MD	Ok
17	P4737-01	TP2	VY020236.D	08 Nov 2024 17:49	vial-A	SY/MD	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 # VY110824

Review By	Mahesh Dadoda	Review On	11/9/2024 4:18:55 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/11/2024 1:01:08 PM		
SubDirectory	VY110824	HP Acquire Method	MSVOA_Y	HP Processing Method	82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131341
Initial Calibration Stds	
CCC	VP131342,VP131343
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	VSTDCCC050	VSTDCCC050EC	VY020237.D	08 Nov 2024 18:12		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:	P4718	**OrderDate:**	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	**WB-307-SB01**	**SOIL**			**11/04/24**			**11/05/24**
			VOC-TCLVOA-10	8260D			11/08/24	
P4718-02	**WB-307-SB02**	**SOIL**			**11/04/24**			**11/05/24**
			VOC-TCLVOA-10	8260D			11/08/24	
P4718-03	**WB-307-SB02**	**TCLP**			**11/04/24**			**11/05/24**
			TCLP VOA	8260D			11/07/24	
P4718-04	**WB-307-SW**	**Water**			**11/04/24**			**11/05/24**
			VOC-TCLVOA-10	8260-Low			11/14/24	
P4718-05	**TB-11042024**	**Water**			**11/04/24**			**11/05/24**
			VOC-TCLVOA-10	8260-Low			11/14/24	