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

Hit Summary Sheet
SW-846

SDG No.: Q2832

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:

SAMPLE DATA

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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S01	SDG No.:	Q2832
Lab Sample ID:	Q2832-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	93.4
Sample Wt/Vol:	4.5 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:	Date Analyzed	Prep Batch ID
VY023123.D	1	08/15/25 14:24	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	5.90	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	5.90	ug/Kg
75-01-4	Vinyl Chloride	0.94	U	0.94	5.90	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	5.90	ug/Kg
75-00-3	Chloroethane	1.50	U	1.50	5.90	ug/Kg
75-69-4	Trichlorofluoromethane	1.40	U	1.40	5.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	5.90	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	5.90	ug/Kg
67-64-1	Acetone	5.60	U	5.60	29.7	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.87	U	0.87	5.90	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.90	ug/Kg
75-09-2	Methylene Chloride	4.20	U	4.20	11.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	5.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.95	U	0.95	5.90	ug/Kg
110-82-7	Cyclohexane	0.94	U	0.94	5.90	ug/Kg
78-93-3	2-Butanone	7.80	U	7.80	29.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.20	U	1.20	5.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.89	U	0.89	5.90	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	5.90	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	5.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	5.90	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	5.90	ug/Kg
71-43-2	Benzene	0.94	U	0.94	5.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.94	U	0.94	5.90	ug/Kg
79-01-6	Trichloroethene	0.96	U	0.96	5.90	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	5.90	ug/Kg
75-27-4	Bromodichloromethane	0.93	U	0.93	5.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.30	U	4.30	29.7	ug/Kg
108-88-3	Toluene	0.93	U	0.93	5.90	ug/Kg

Raw Data: **VY023123.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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S01	SDG No.:	Q2832
Lab Sample ID:	Q2832-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	93.4
Sample Wt/Vol:	4.5 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:	Date Analyzed	Prep Batch ID
VY023123.D	1	08/15/25 14:24	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.77	U	0.77	5.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.74	U	0.74	5.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	5.90	ug/Kg
591-78-6	2-Hexanone	4.40	U	4.40	29.7	ug/Kg
124-48-1	Dibromochloromethane	1.00	U	1.00	5.90	ug/Kg
106-93-4	1,2-Dibromoethane	1.00	U	1.00	5.90	ug/Kg
127-18-4	Tetrachloroethene	1.20	U	1.20	5.90	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	5.90	ug/Kg
100-41-4	Ethyl Benzene	0.80	U	0.80	5.90	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	11.9	ug/Kg
95-47-6	o-Xylene	0.98	U	0.98	5.90	ug/Kg
100-42-5	Styrene	0.84	U	0.84	5.90	ug/Kg
75-25-2	Bromoform	1.00	U	1.00	5.90	ug/Kg
98-82-8	Isopropylbenzene	0.93	U	0.93	5.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	5.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.00	U	2.00	5.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.90	5.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.70	U	1.70	5.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.20	U	2.20	5.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.50	U	3.50	5.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.80	U	3.80	5.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.9		70 (63) - 130 (155)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	51.8		70 (74) - 130 (123)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		70 (17) - 130 (146)	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	580000	7.707			
540-36-3	1,4-Difluorobenzene	1080000	8.609			
3114-55-4	Chlorobenzene-d5	969000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	391000	13.34			

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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S01	SDG No.:	Q2832
Lab Sample ID:	Q2832-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	93.4
Sample Wt/Vol:	4.5 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:	Date Analyzed	Prep Batch ID
VY023123.D	1	08/15/25 14:24	VY081525

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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S02	SDG No.:	Q2832
Lab Sample ID:	Q2832-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	94
Sample Wt/Vol:	4.64 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:	Date Analyzed	Prep Batch ID
VY023124.D	1	08/15/25 14:47	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	5.70	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.70	ug/Kg
75-01-4	Vinyl Chloride	0.91	U	0.91	5.70	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.70	ug/Kg
75-00-3	Chloroethane	1.40	U	1.40	5.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.40	U	1.40	5.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.70	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.70	ug/Kg
67-64-1	Acetone	5.40	U	5.40	28.7	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	5.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.84	U	0.84	5.70	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.70	ug/Kg
75-09-2	Methylene Chloride	4.00	U	4.00	11.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.99	U	0.99	5.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.92	U	0.92	5.70	ug/Kg
110-82-7	Cyclohexane	0.91	U	0.91	5.70	ug/Kg
78-93-3	2-Butanone	7.50	U	7.50	28.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	5.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.86	U	0.86	5.70	ug/Kg
74-97-5	Bromochloromethane	1.30	U	1.30	5.70	ug/Kg
67-66-3	Chloroform	0.96	U	0.96	5.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	5.70	ug/Kg
108-87-2	Methylcyclohexane	1.00	U	1.00	5.70	ug/Kg
71-43-2	Benzene	0.91	U	0.91	5.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.91	U	0.91	5.70	ug/Kg
79-01-6	Trichloroethene	0.93	U	0.93	5.70	ug/Kg
78-87-5	1,2-Dichloropropane	1.00	U	1.00	5.70	ug/Kg
75-27-4	Bromodichloromethane	0.89	U	0.89	5.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.10	U	4.10	28.7	ug/Kg
108-88-3	Toluene	0.89	U	0.89	5.70	ug/Kg

Raw Data: **VY023124.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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S02	SDG No.:	Q2832
Lab Sample ID:	Q2832-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	94
Sample Wt/Vol:	4.64 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:	Date Analyzed	Prep Batch ID
VY023124.D	1	08/15/25 14:47	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.75	U	0.75	5.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.71	U	0.71	5.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	5.70	ug/Kg
591-78-6	2-Hexanone	4.20	U	4.20	28.7	ug/Kg
124-48-1	Dibromochloromethane	1.00	U	1.00	5.70	ug/Kg
106-93-4	1,2-Dibromoethane	1.00	U	1.00	5.70	ug/Kg
127-18-4	Tetrachloroethene	1.20	U	1.20	5.70	ug/Kg
108-90-7	Chlorobenzene	1.00	U	1.00	5.70	ug/Kg
100-41-4	Ethyl Benzene	0.77	U	0.77	5.70	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	11.5	ug/Kg
95-47-6	o-Xylene	0.94	U	0.94	5.70	ug/Kg
100-42-5	Styrene	0.81	U	0.81	5.70	ug/Kg
75-25-2	Bromoform	0.99	U	0.99	5.70	ug/Kg
98-82-8	Isopropylbenzene	0.89	U	0.89	5.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	5.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.00	U	2.00	5.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.80	U	1.80	5.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.70	U	1.70	5.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.10	U	2.10	5.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.40	U	3.40	5.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.60	U	3.60	5.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (63) - 130 (155)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	51.9		70 (74) - 130 (123)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		70 (17) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	570000	7.707			
540-36-3	1,4-Difluorobenzene	1080000	8.615			
3114-55-4	Chlorobenzene-d5	962000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	380000	13.34			

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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S02	SDG No.:	Q2832
Lab Sample ID:	Q2832-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	94
Sample Wt/Vol:	4.64 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:	Date Analyzed	Prep Batch ID
VY023124.D	1	08/15/25 14:47	VY081525

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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S03	SDG No.:	Q2832
Lab Sample ID:	Q2832-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	93.8
Sample Wt/Vol:	3.86 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:	Date Analyzed	Prep Batch ID
VY023125.D	1	08/15/25 15:11	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	6.90	ug/Kg
74-87-3	Chloromethane	1.60	U	1.60	6.90	ug/Kg
75-01-4	Vinyl Chloride	1.10	U	1.10	6.90	ug/Kg
74-83-9	Bromomethane	1.50	U	1.50	6.90	ug/Kg
75-00-3	Chloroethane	1.70	U	1.70	6.90	ug/Kg
75-69-4	Trichlorofluoromethane	1.70	U	1.70	6.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.50	U	1.50	6.90	ug/Kg
75-35-4	1,1-Dichloroethene	1.40	U	1.40	6.90	ug/Kg
67-64-1	Acetone	6.50	U	6.50	34.5	ug/Kg
75-15-0	Carbon Disulfide	1.50	U	1.50	6.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.00	U	1.00	6.90	ug/Kg
79-20-9	Methyl Acetate	2.10	U	2.10	6.90	ug/Kg
75-09-2	Methylene Chloride	4.90	U	4.90	13.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.20	U	1.20	6.90	ug/Kg
75-34-3	1,1-Dichloroethane	1.10	U	1.10	6.90	ug/Kg
110-82-7	Cyclohexane	1.10	U	1.10	6.90	ug/Kg
78-93-3	2-Butanone	9.00	U	9.00	34.5	ug/Kg
56-23-5	Carbon Tetrachloride	1.30	U	1.30	6.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	6.90	ug/Kg
74-97-5	Bromochloromethane	1.60	U	1.60	6.90	ug/Kg
67-66-3	Chloroform	1.20	U	1.20	6.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.30	U	1.30	6.90	ug/Kg
108-87-2	Methylcyclohexane	1.30	U	1.30	6.90	ug/Kg
71-43-2	Benzene	1.10	U	1.10	6.90	ug/Kg
107-06-2	1,2-Dichloroethane	1.10	U	1.10	6.90	ug/Kg
79-01-6	Trichloroethene	1.10	U	1.10	6.90	ug/Kg
78-87-5	1,2-Dichloropropane	1.30	U	1.30	6.90	ug/Kg
75-27-4	Bromodichloromethane	1.10	U	1.10	6.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.90	U	4.90	34.5	ug/Kg
108-88-3	Toluene	1.10	U	1.10	6.90	ug/Kg

Raw Data: **VY023125.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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S03	SDG No.:	Q2832
Lab Sample ID:	Q2832-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	93.8
Sample Wt/Vol:	3.86 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:	Date Analyzed	Prep Batch ID
VY023125.D	1	08/15/25 15:11	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.90	U	0.90	6.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.86	U	0.86	6.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.30	U	1.30	6.90	ug/Kg
591-78-6	2-Hexanone	5.10	U	5.10	34.5	ug/Kg
124-48-1	Dibromochloromethane	1.20	U	1.20	6.90	ug/Kg
106-93-4	1,2-Dibromoethane	1.20	U	1.20	6.90	ug/Kg
127-18-4	Tetrachloroethene	1.50	U	1.50	6.90	ug/Kg
108-90-7	Chlorobenzene	1.30	U	1.30	6.90	ug/Kg
100-41-4	Ethyl Benzene	0.93	U	0.93	6.90	ug/Kg
179601-23-1	m/p-Xylenes	1.70	U	1.70	13.8	ug/Kg
95-47-6	o-Xylene	1.10	U	1.10	6.90	ug/Kg
100-42-5	Styrene	0.98	U	0.98	6.90	ug/Kg
75-25-2	Bromoform	1.20	U	1.20	6.90	ug/Kg
98-82-8	Isopropylbenzene	1.10	U	1.10	6.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.70	U	1.70	6.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.40	U	2.40	6.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.20	U	2.20	6.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.00	U	2.00	6.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.50	U	2.50	6.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.10	U	4.10	6.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.40	U	4.40	6.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (63) - 130 (155)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 (70) - 130 (134)	103%	SPK: 50
2037-26-5	Toluene-d8	52.7		70 (74) - 130 (123)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		70 (17) - 130 (146)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	554000	7.707			
540-36-3	1,4-Difluorobenzene	1040000	8.609			
3114-55-4	Chlorobenzene-d5	947000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	379000	13.34			

Raw Data: **VY023125.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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S03	SDG No.:	Q2832
Lab Sample ID:	Q2832-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	93.8
Sample Wt/Vol:	3.86 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:	Date Analyzed	Prep Batch ID
VY023125.D	1	08/15/25 15:11	VY081525

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: **VY023126.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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S04	SDG No.:	Q2832
Lab Sample ID:	Q2832-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	93.1
Sample Wt/Vol:	4 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:	Date Analyzed	Prep Batch ID
VY023126.D	1	08/15/25 15:34	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.50	U	1.50	6.70	ug/Kg
74-87-3	Chloromethane	1.50	U	1.50	6.70	ug/Kg
75-01-4	Vinyl Chloride	1.10	U	1.10	6.70	ug/Kg
74-83-9	Bromomethane	1.40	U	1.40	6.70	ug/Kg
75-00-3	Chloroethane	1.70	U	1.70	6.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.60	U	1.60	6.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	U	1.40	6.70	ug/Kg
75-35-4	1,1-Dichloroethene	1.30	U	1.30	6.70	ug/Kg
67-64-1	Acetone	6.40	U	6.40	33.6	ug/Kg
75-15-0	Carbon Disulfide	1.40	U	1.40	6.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.98	U	0.98	6.70	ug/Kg
79-20-9	Methyl Acetate	2.10	U	2.10	6.70	ug/Kg
75-09-2	Methylene Chloride	4.70	U	4.70	13.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.20	U	1.20	6.70	ug/Kg
75-34-3	1,1-Dichloroethane	1.10	U	1.10	6.70	ug/Kg
110-82-7	Cyclohexane	1.10	U	1.10	6.70	ug/Kg
78-93-3	2-Butanone	8.80	U	8.80	33.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.30	U	1.30	6.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	6.70	ug/Kg
74-97-5	Bromochloromethane	1.50	U	1.50	6.70	ug/Kg
67-66-3	Chloroform	1.10	U	1.10	6.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	6.70	ug/Kg
108-87-2	Methylcyclohexane	1.20	U	1.20	6.70	ug/Kg
71-43-2	Benzene	1.10	U	1.10	6.70	ug/Kg
107-06-2	1,2-Dichloroethane	1.10	U	1.10	6.70	ug/Kg
79-01-6	Trichloroethene	1.10	U	1.10	6.70	ug/Kg
78-87-5	1,2-Dichloropropane	1.20	U	1.20	6.70	ug/Kg
75-27-4	Bromodichloromethane	1.00	U	1.00	6.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.80	U	4.80	33.6	ug/Kg
108-88-3	Toluene	1.00	U	1.00	6.70	ug/Kg

Raw Data: **VY023126.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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S04	SDG No.:	Q2832
Lab Sample ID:	Q2832-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	93.1
Sample Wt/Vol:	4 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:	Date Analyzed	Prep Batch ID
VY023126.D	1	08/15/25 15:34	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.87	U	0.87	6.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.83	U	0.83	6.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.20	U	1.20	6.70	ug/Kg
591-78-6	2-Hexanone	5.00	U	5.00	33.6	ug/Kg
124-48-1	Dibromochloromethane	1.20	U	1.20	6.70	ug/Kg
106-93-4	1,2-Dibromoethane	1.20	U	1.20	6.70	ug/Kg
127-18-4	Tetrachloroethene	1.40	U	1.40	6.70	ug/Kg
108-90-7	Chlorobenzene	1.20	U	1.20	6.70	ug/Kg
100-41-4	Ethyl Benzene	0.90	U	0.90	6.70	ug/Kg
179601-23-1	m/p-Xylenes	1.70	U	1.70	13.4	ug/Kg
95-47-6	o-Xylene	1.10	U	1.10	6.70	ug/Kg
100-42-5	Styrene	0.95	U	0.95	6.70	ug/Kg
75-25-2	Bromoform	1.20	U	1.20	6.70	ug/Kg
98-82-8	Isopropylbenzene	1.00	U	1.00	6.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.60	U	1.60	6.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.30	U	2.30	6.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.10	U	2.10	6.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.90	U	1.90	6.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.50	U	2.50	6.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.00	U	4.00	6.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.30	U	4.30	6.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (63) - 130 (155)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		70 (70) - 130 (134)	106%	SPK: 50
2037-26-5	Toluene-d8	51.6		70 (74) - 130 (123)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		70 (17) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	567000	7.707			
540-36-3	1,4-Difluorobenzene	1070000	8.609			
3114-55-4	Chlorobenzene-d5	958000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	387000	13.34			

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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S04	SDG No.:	Q2832
Lab Sample ID:	Q2832-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	93.1
Sample Wt/Vol:	4 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:	Date Analyzed	Prep Batch ID
VY023126.D	1	08/15/25 15:34	VY081525

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: **VY023127.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:	08/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S05	SDG No.:	Q2832
Lab Sample ID:	Q2832-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.9
Sample Wt/Vol:	3.4 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:	Date Analyzed	Prep Batch ID
VY023127.D	1	08/15/25 15:58	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.80	U	1.80	8.10	ug/Kg
74-87-3	Chloromethane	1.80	U	1.80	8.10	ug/Kg
75-01-4	Vinyl Chloride	1.30	U	1.30	8.10	ug/Kg
74-83-9	Bromomethane	1.70	U	1.70	8.10	ug/Kg
75-00-3	Chloroethane	2.00	U	2.00	8.10	ug/Kg
75-69-4	Trichlorofluoromethane	2.00	U	2.00	8.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.70	U	1.70	8.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.60	U	1.60	8.10	ug/Kg
67-64-1	Acetone	7.70	U	7.70	40.4	ug/Kg
75-15-0	Carbon Disulfide	1.70	U	1.70	8.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.20	U	1.20	8.10	ug/Kg
79-20-9	Methyl Acetate	2.50	U	2.50	8.10	ug/Kg
75-09-2	Methylene Chloride	5.70	U	5.70	16.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.40	U	1.40	8.10	ug/Kg
75-34-3	1,1-Dichloroethane	1.30	U	1.30	8.10	ug/Kg
110-82-7	Cyclohexane	1.30	U	1.30	8.10	ug/Kg
78-93-3	2-Butanone	10.6	U	10.6	40.4	ug/Kg
56-23-5	Carbon Tetrachloride	1.60	U	1.60	8.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.20	U	1.20	8.10	ug/Kg
74-97-5	Bromochloromethane	1.90	U	1.90	8.10	ug/Kg
67-66-3	Chloroform	1.40	U	1.40	8.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.50	U	1.50	8.10	ug/Kg
108-87-2	Methylcyclohexane	1.50	U	1.50	8.10	ug/Kg
71-43-2	Benzene	1.30	U	1.30	8.10	ug/Kg
107-06-2	1,2-Dichloroethane	1.30	U	1.30	8.10	ug/Kg
79-01-6	Trichloroethene	1.30	U	1.30	8.10	ug/Kg
78-87-5	1,2-Dichloropropane	1.50	U	1.50	8.10	ug/Kg
75-27-4	Bromodichloromethane	1.30	U	1.30	8.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.80	U	5.80	40.4	ug/Kg
108-88-3	Toluene	1.30	U	1.30	8.10	ug/Kg

Raw Data: **VY023127.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:	08/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S05	SDG No.:	Q2832
Lab Sample ID:	Q2832-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.9
Sample Wt/Vol:	3.4 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:	Date Analyzed	Prep Batch ID
VY023127.D	1	08/15/25 15:58	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.10	U	1.10	8.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.00	U	1.00	8.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.50	U	1.50	8.10	ug/Kg
591-78-6	2-Hexanone	6.00	U	6.00	40.4	ug/Kg
124-48-1	Dibromochloromethane	1.40	U	1.40	8.10	ug/Kg
106-93-4	1,2-Dibromoethane	1.40	U	1.40	8.10	ug/Kg
127-18-4	Tetrachloroethene	1.70	U	1.70	8.10	ug/Kg
108-90-7	Chlorobenzene	1.50	U	1.50	8.10	ug/Kg
100-41-4	Ethyl Benzene	1.10	U	1.10	8.10	ug/Kg
179601-23-1	m/p-Xylenes	2.00	U	2.00	16.2	ug/Kg
95-47-6	o-Xylene	1.30	U	1.30	8.10	ug/Kg
100-42-5	Styrene	1.10	U	1.10	8.10	ug/Kg
75-25-2	Bromoform	1.40	U	1.40	8.10	ug/Kg
98-82-8	Isopropylbenzene	1.30	U	1.30	8.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.00	U	2.00	8.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.80	U	2.80	8.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	2.50	8.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.30	U	2.30	8.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.00	U	3.00	8.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.80	U	4.80	8.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.10	U	5.10	8.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.6		70 (63) - 130 (155)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		70 (70) - 130 (134)	106%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (74) - 130 (123)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.9		70 (17) - 130 (146)	80%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	551000	7.707			
540-36-3	1,4-Difluorobenzene	1030000	8.615			
3114-55-4	Chlorobenzene-d5	844000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	274000	13.34			

Raw Data: **VY023127.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:	08/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S05	SDG No.:	Q2832
Lab Sample ID:	Q2832-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.9
Sample Wt/Vol:	3.4 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:	Date Analyzed	Prep Batch ID
VY023127.D	1	08/15/25 15:58	VY081525

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.: Q2832

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2832-01	TG-S01	1,2-Dichloroethane-d4	50	56.9	114		70 (63)	130 (155)
		Dibromofluoromethane	50	51.0	102		70 (70)	130 (134)
		Toluene-d8	50	51.8	104		70 (74)	130 (123)
		4-Bromofluorobenzene	50	48.1	96		70 (17)	130 (146)
Q2832-03	TG-S02	1,2-Dichloroethane-d4	50	59.2	118		70 (63)	130 (155)
		Dibromofluoromethane	50	52.1	104		70 (70)	130 (134)
		Toluene-d8	50	51.9	104		70 (74)	130 (123)
		4-Bromofluorobenzene	50	47.5	95		70 (17)	130 (146)
Q2832-05	TG-S03	1,2-Dichloroethane-d4	50	59.2	118		70 (63)	130 (155)
		Dibromofluoromethane	50	51.4	103		70 (70)	130 (134)
		Toluene-d8	50	52.6	105		70 (74)	130 (123)
		4-Bromofluorobenzene	50	48.8	98		70 (17)	130 (146)
Q2832-07	TG-S04	1,2-Dichloroethane-d4	50	59.2	118		70 (63)	130 (155)
		Dibromofluoromethane	50	52.8	106		70 (70)	130 (134)
		Toluene-d8	50	51.6	103		70 (74)	130 (123)
		4-Bromofluorobenzene	50	47.7	95		70 (17)	130 (146)
Q2832-09	TG-S05	1,2-Dichloroethane-d4	50	57.6	115		70 (63)	130 (155)
		Dibromofluoromethane	50	52.8	106		70 (70)	130 (134)
		Toluene-d8	50	51.0	102		70 (74)	130 (123)
		4-Bromofluorobenzene	50	39.9	80		70 (17)	130 (146)
VY0815SBL01	VY0815SBL01	1,2-Dichloroethane-d4	50	59.8	120		70 (63)	130 (155)
		Dibromofluoromethane	50	52.7	105		70 (70)	130 (134)
		Toluene-d8	50	52.4	105		70 (74)	130 (123)
		4-Bromofluorobenzene	50	47.5	95		70 (17)	130 (146)
VY0815SBS01	VY0815SBS01	1,2-Dichloroethane-d4	50	51.7	103		70 (63)	130 (155)
		Dibromofluoromethane	50	49.3	99		70 (70)	130 (134)
		Toluene-d8	50	50.2	100		70 (74)	130 (123)
		4-Bromofluorobenzene	50	48.5	97		70 (17)	130 (146)
VY0815SBSD01	VY0815SBSD01	1,2-Dichloroethane-d4	50	52.1	104		70 (63)	130 (155)
		Dibromofluoromethane	50	50.3	101		70 (70)	130 (134)
		Toluene-d8	50	50.5	101		70 (74)	130 (123)
		4-Bromofluorobenzene	50	48.7	97		70 (17)	130 (146)

( ) = 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.: Q2832 **Analytical Method:** SW8260D

Client: Portal Partners Tri-Venture **Datafile :** VY023113.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0815SBS01	Dichlorodifluoromethane	20	19.7	ug/Kg	99			40 (64)	160 (136)	
	Chloromethane	20	22.2	ug/Kg	111			40 (52)	160 (151)	
	Vinyl chloride	20	22.5	ug/Kg	113			70 (56)	130 (148)	
	Bromomethane	20	25.5	ug/Kg	128			40 (58)	160 (141)	
	Chloroethane	20	22.7	ug/Kg	114			40 (69)	160 (130)	
	Trichlorofluoromethane	20	21.1	ug/Kg	106			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/Kg	101			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.8	ug/Kg	99			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (40)	160 (171)	
	Carbon disulfide	20	20.1	ug/Kg	101			40 (59)	160 (130)	
	Methyl tert-butyl Ether	20	19.5	ug/Kg	98			70 (77)	130 (129)	
	Methyl Acetate	20	18.5	ug/Kg	93			70 (69)	130 (149)	
	Methylene Chloride	20	20.8	ug/Kg	104			70 (72)	130 (131)	
	trans-1,2-Dichloroethene	20	19.9	ug/Kg	100			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.4	ug/Kg	102			70 (82)	130 (123)	
	Cyclohexane	20	18.9	ug/Kg	95			70 (76)	130 (122)	
	2-Butanone	100	110	ug/Kg	110			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.6	ug/Kg	98			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.1	ug/Kg	101			70 (82)	130 (123)	
	Bromochloromethane	20	21.9	ug/Kg	110			70 (80)	130 (127)	
	Chloroform	20	20.9	ug/Kg	104			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.3	ug/Kg	102			70 (80)	130 (126)	
	Methylcyclohexane	20	18.7	ug/Kg	94			70 (77)	130 (123)	
	Benzene	20	20.4	ug/Kg	102			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.6	ug/Kg	103			70 (81)	130 (126)	
	Trichloroethene	20	20.5	ug/Kg	103			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.5	ug/Kg	103			70 (83)	130 (122)	
	Bromodichloromethane	20	20.8	ug/Kg	104			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	97.9	ug/Kg	98			40 (70)	160 (135)	
	Toluene	20	20.2	ug/Kg	101			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.9	ug/Kg	100			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.6	ug/Kg	98			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			70 (82)	130 (125)	
	2-Hexanone	100	100	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	20.1	ug/Kg	101			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.1	ug/Kg	101			70 (80)	130 (125)	
	Tetrachloroethene	20	21.8	ug/Kg	109			70 (83)	130 (125)	
	Chlorobenzene	20	19.5	ug/Kg	98			70 (84)	130 (122)	
	Ethyl Benzene	20	18.8	ug/Kg	94			70 (82)	130 (124)	
	m/p-Xylenes	40	38.6	ug/Kg	97			70 (83)	130 (124)	
	o-Xylene	20	18.6	ug/Kg	93			70 (83)	130 (123)	
	Styrene	20	19.4	ug/Kg	97			70 (82)	130 (124)	
	Bromoform	20	18.7	ug/Kg	94			70 (75)	130 (127)	
	Isopropylbenzene	20	18.8	ug/Kg	94			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.1	ug/Kg	91			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.3	ug/Kg	97			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	18.9	ug/Kg	95			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.: Q2832 **Analytical Method:** SW8260D

Client: Portal Partners Tri-Venture **Datafile :** VY023113.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0815SBS01	1,2-Dibromo-3-Chloropropane	20	19.8	ug/Kg	99			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.2	ug/Kg	91			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	17.9	ug/Kg	90			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2832 **Analytical Method:** SW8260D

Client: Portal Partners Tri-Venture **Datafile :** VY023114.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0815SBSD01	Dichlorodifluoromethane	20	21.3	ug/Kg	106	7		40 (64)	160 (136)	30 (20)
	Chloromethane	20	22.8	ug/Kg	114	3		40 (52)	160 (151)	30 (20)
	Vinyl chloride	20	23.3	ug/Kg	117	3		70 (56)	130 (148)	30 (20)
	Bromomethane	20	25.5	ug/Kg	128	0		40 (58)	160 (141)	30 (20)
	Chloroethane	20	23.9	ug/Kg	119	4		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	22.3	ug/Kg	112	6		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.7	ug/Kg	109	8		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	20.9	ug/Kg	104	5		70 (79)	130 (121)	30 (20)
	Acetone	100	110	ug/Kg	110	0		40 (40)	160 (171)	30 (20)
	Carbon disulfide	20	20.8	ug/Kg	104	3		40 (59)	160 (130)	30 (20)
	Methyl tert-butyl Ether	20	20.3	ug/Kg	102	4		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	21.2	ug/Kg	106	13		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	22.1	ug/Kg	111	7		70 (72)	130 (131)	30 (20)
	trans-1,2-Dichloroethene	20	21.0	ug/Kg	105	5		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.0	ug/Kg	105	3		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	19.7	ug/Kg	99	4		70 (76)	130 (122)	30 (20)
	2-Butanone	100	100	ug/Kg	100	10		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.5	ug/Kg	103	5		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103	2		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	21.8	ug/Kg	109	1		70 (80)	130 (127)	30 (20)
	Chloroform	20	21.6	ug/Kg	108	4		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	21.0	ug/Kg	105	3		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.5	ug/Kg	98	4		70 (77)	130 (123)	30 (20)
	Benzene	20	20.6	ug/Kg	103	1		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.9	ug/Kg	104	1		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	21.1	ug/Kg	106	3		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.6	ug/Kg	103	0		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.7	ug/Kg	104	0		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	99.3	ug/Kg	99	1		40 (70)	160 (135)	30 (20)
	Toluene	20	20.5	ug/Kg	103	2		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.7	ug/Kg	99	1		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.2	ug/Kg	101	3		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.4	ug/Kg	102	1		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	99.7	ug/Kg	100	0		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.6	ug/Kg	103	2		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.2	ug/Kg	101	0		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	22.8	ug/Kg	114	4		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	21.1	ug/Kg	106	8		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	20.2	ug/Kg	101	7		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	41.1	ug/Kg	103	6		70 (83)	130 (124)	30 (20)
	o-Xylene	20	20.1	ug/Kg	101	8		70 (83)	130 (123)	30 (20)
	Styrene	20	20.5	ug/Kg	103	6		70 (82)	130 (124)	30 (20)
	Bromoform	20	19.8	ug/Kg	99	5		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.4	ug/Kg	97	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	19.0	ug/Kg	95	4		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.1	ug/Kg	101	5		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	19.8	ug/Kg	99	2		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	19.7	ug/Kg	99	4		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.: Q2832 **Analytical Method:** SW8260D

Client: Portal Partners Tri-Venture **Datafile :** VY023114.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0815SBSD01	1,2-Dibromo-3-Chloropropane	20	20.0	ug/Kg	100	1		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	18.5	ug/Kg	93	2		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	18.6	ug/Kg	93	3		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

Client ID: VY0815SBL01

Lab Name: Alliance | Contract: PORT06

Lab Code: ACE | SDG NO.: Q2832

Lab File ID: VY023112.D | Lab Sample ID: VY0815SBL01

Date Analyzed: 08/15/2025 | Time Analyzed: 09:08

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
VY0815SBS01	VY0815SBS01	VY023113.D	08/15/2025
VY0815SBSD01	VY0815SBSD01	VY023114.D	08/15/2025
TG-S01	Q2832-01	VY023123.D	08/15/2025
TG-S02	Q2832-03	VY023124.D	08/15/2025
TG-S03	Q2832-05	VY023125.D	08/15/2025
TG-S04	Q2832-07	VY023126.D	08/15/2025
TG-S05	Q2832-09	VY023127.D	08/15/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: PORT06

Lab Code: ACE | SDG NO.: Q2832

Lab File ID: VY023048.D | BFB Injection Date: 08/12/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 08:26

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	83.2
175	5.0 - 9.0% of mass 174	6.3 (7.6) 1
176	95.0 - 101.0% of mass 174	80.9 (97.2) 1
177	5.0 - 9.0% of mass 176	5.1 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY023050.D	08/12/2025	14:54
VSTDICC010	VSTDICC010	VY023051.D	08/12/2025	15:17
VSTDICC020	VSTDICC020	VY023052.D	08/12/2025	15:40
VSTDICCC050	VSTDICCC050	VY023053.D	08/12/2025	16:02
VSTDICC100	VSTDICC100	VY023054.D	08/12/2025	16:25
VSTDICC150	VSTDICC150	VY023055.D	08/12/2025	16:47

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: PORT06

Lab Code: ACE | SDG NO.: Q2832

Lab File ID: VY023110.D | BFB Injection Date: 08/15/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 08:07

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	19.6
75	30.0 - 60.0% of mass 95	52.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.1 (1.2) 1
174	50.0 - 100.0% of mass 95	88.9
175	5.0 - 9.0% of mass 174	6.6 (7.4) 1
176	95.0 - 101.0% of mass 174	85.3 (96) 1
177	5.0 - 9.0% of mass 176	5.6 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY023111.D	08/15/2025	08:39
VY0815SBL01	VY0815SBL01	VY023112.D	08/15/2025	09:08
VY0815SBS01	VY0815SBS01	VY023113.D	08/15/2025	09:37
VY0815SBSD01	VY0815SBSD01	VY023114.D	08/15/2025	09:59
TG-S01	Q2832-01	VY023123.D	08/15/2025	14:24
TG-S02	Q2832-03	VY023124.D	08/15/2025	14:47
TG-S03	Q2832-05	VY023125.D	08/15/2025	15:11
TG-S04	Q2832-07	VY023126.D	08/15/2025	15:34
TG-S05	Q2832-09	VY023127.D	08/15/2025	15:58

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: PORT06

Lab Code: ACE SDG NO.: Q2832

Lab File ID: VY023111.D Date Analyzed: 08/15/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:39

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	443799	7.71	696916	8.62	607348	11.41
UPPER LIMIT	887598	8.207	1393830	9.116	1214700	11.914
LOWER LIMIT	221900	7.207	348458	8.116	303674	10.914
EPA SAMPLE NO.						
TG-S01	579878	7.71	1082547	8.61	969395	11.41
TG-S02	570487	7.71	1076714	8.62	962307	11.41
TG-S03	553899	7.71	1043284	8.61	947118	11.41
TG-S04	567197	7.71	1071652	8.61	957867	11.41
TG-S05	551145	7.71	1030444	8.62	844477	11.41
VY0815SBL01	550500	7.71	1049087	8.62	953139	11.41
VY0815SBS01	452403	7.71	727202	8.62	654458	11.41
VY0815SBSD01	440097	7.71	718363	8.62	623331	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: Alliance Contract: PORT06

Lab Code: ACE SDG NO.: Q2832

Lab File ID: VY023111.D Date Analyzed: 08/15/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:39

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

	IS4 AREA #	RT #				
12 HOUR STD	306948	13.347				
UPPER LIMIT	613896	13.847				
LOWER LIMIT	153474	12.847				
EPA SAMPLE NO.						
TG-S01	391179	13.34				
TG-S02	380373	13.34				
TG-S03	378902	13.34				
TG-S04	386816	13.34				
TG-S05	274172	13.34				
VY0815SBL01	370974	13.35				
VY0815SBS01	327154	13.34				
VY0815SBSD01	315352	13.34				

IS4 = 1,4-Dichlorobenzene-d4

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

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

QC SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0815SBL01	SDG No.:	Q2832
Lab Sample ID:	VY0815SBL01	Matrix:	SOIL
Analytical Method:	8260D	% 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:	Date Analyzed	Prep Batch ID
VY023112.D	1	08/15/25 09:08	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	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	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0815SBL01	SDG No.:	Q2832
Lab Sample ID:	VY0815SBL01	Matrix:	SOIL
Analytical Method:	8260D	% 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:	Date Analyzed	Prep Batch ID
VY023112.D	1	08/15/25 09:08	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.8		70 (63) - 130 (155)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 (70) - 130 (134)	105%	SPK: 50
2037-26-5	Toluene-d8	52.4		70 (74) - 130 (123)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		70 (17) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	551000	7.707			
540-36-3	1,4-Difluorobenzene	1050000	8.616			
3114-55-4	Chlorobenzene-d5	953000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	371000	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:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0815SBL01	SDG No.:	Q2832
Lab Sample ID:	VY0815SBL01	Matrix:	SOIL
Analytical Method:	8260D	% 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:	Date Analyzed	Prep Batch ID
VY023112.D	1	08/15/25 09:08	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0815SBS01	SDG No.:	Q2832
Lab Sample ID:	VY0815SBS01	Matrix:	SOIL
Analytical Method:	8260D	% 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:	Date Analyzed	Prep Batch ID
VY023113.D	1	08/15/25 09:37	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.7		1.10	5.00	ug/Kg
74-87-3	Chloromethane	22.2		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	22.5		0.79	5.00	ug/Kg
74-83-9	Bromomethane	25.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	22.7		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.1		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.8		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.1		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.5		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.5		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.8		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.9		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.4		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.9		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.1		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.9		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.9		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.3		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.7		0.91	5.00	ug/Kg
71-43-2	Benzene	20.4		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.5		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.8		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	97.9		3.60	25.0	ug/Kg
108-88-3	Toluene	20.2		0.78	5.00	ug/Kg

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0815SBS01	SDG No.:	Q2832
Lab Sample ID:	VY0815SBS01	Matrix:	SOIL
Analytical Method:	8260D	% 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:	Date Analyzed	Prep Batch ID
VY023113.D	1	08/15/25 09:37	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.9		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.6		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.1		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.5		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.8		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	18.6		0.82	5.00	ug/Kg
100-42-5	Styrene	19.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.7		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.8		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.1		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.3		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	18.9		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.8		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.9		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		70 (63) - 130 (155)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		70 (70) - 130 (134)	99%	SPK: 50
2037-26-5	Toluene-d8	50.2		70 (74) - 130 (123)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		70 (17) - 130 (146)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	452000	7.707			
540-36-3	1,4-Difluorobenzene	727000	8.616			
3114-55-4	Chlorobenzene-d5	654000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	327000	13.341			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0815SBS01	SDG No.:	Q2832
Lab Sample ID:	VY0815SBS01	Matrix:	SOIL
Analytical Method:	8260D	% 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:	Date Analyzed	Prep Batch ID
VY023113.D	1	08/15/25 09:37	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0815SBSD01	SDG No.:	Q2832
Lab Sample ID:	VY0815SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% 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:	Date Analyzed	Prep Batch ID
VY023114.D	1	08/15/25 09:59	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	22.8		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	23.3		0.79	5.00	ug/Kg
74-83-9	Bromomethane	25.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	23.9		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.3		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.7		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.9		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.8		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.3		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	21.2		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	22.1		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.0		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.0		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	19.7		0.79	5.00	ug/Kg
78-93-3	2-Butanone	100		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.5		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.8		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.6		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.0		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.5		0.91	5.00	ug/Kg
71-43-2	Benzene	20.6		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.9		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	21.1		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.6		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.7		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	99.3		3.60	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0815SBSD01	SDG No.:	Q2832
Lab Sample ID:	VY0815SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% 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:	Date Analyzed	Prep Batch ID
VY023114.D	1	08/15/25 09:59	VY081525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.7		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.2		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.4		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	99.7		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.6		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.2		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	22.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.2		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.1		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.1		0.82	5.00	ug/Kg
100-42-5	Styrene	20.5		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.8		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.4		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.0		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.1		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.8		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.7		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.5		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.6		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.1		70 (63) - 130 (155)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		70 (70) - 130 (134)	101%	SPK: 50
2037-26-5	Toluene-d8	50.6		70 (74) - 130 (123)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (17) - 130 (146)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	440000	7.707			
540-36-3	1,4-Difluorobenzene	718000	8.616			
3114-55-4	Chlorobenzene-d5	623000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	315000	13.34			

Raw Data: **VY023114.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0815SBSD01	SDG No.:	Q2832
Lab Sample ID:	VY0815SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% 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:	Date Analyzed	Prep Batch ID
VY023114.D	1	08/15/25 09:59	VY081525

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: Alliance Contract: PORT06

Lab Code: ACE SDG No.: Q2832

Instrument ID: MSVOA_Y Calibration Date(s): 08/12/2025 08/12/2025

Heated Purge: (Y/N) Y Calibration Time(s): 14:54 16:47

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

LAB FILE ID: RRF005 = VY023050.D RRF010 = VY023051.D RRF020 = VY023052.D
RRF050 = VY023053.D RRF100 = VY023054.D RRF150 = VY023055.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.487	0.463	0.460	0.348	0.337	0.354	0.408	16.8
Chloromethane	0.699	0.707	0.736	0.607	0.603	0.613	0.661	9
Vinyl Chloride	0.868	0.870	0.875	0.769	0.754	0.766	0.817	7.3
Bromomethane	0.673	0.638	0.653	0.540	0.576	0.581	0.610	8.5
Chloroethane	0.585	0.567	0.569	0.515	0.508	0.516	0.543	6.2
Trichlorofluoromethane	1.059	1.044	1.048	0.937	0.900	0.974	0.994	6.7
1,1,2-Trichlorotrifluoroethane	0.522	0.519	0.521	0.462	0.445	0.472	0.490	7
1,1-Dichloroethene	0.492	0.505	0.502	0.463	0.454	0.475	0.482	4.4
Acetone	0.110	0.111	0.106	0.103	0.094	0.096	0.103	6.9
Carbon Disulfide	1.656	1.663	1.662	1.491	1.453	1.501	1.571	6.3
Methyl tert-butyl Ether	1.181	1.268	1.296	1.236	1.202	1.308	1.249	4.1
Methyl Acetate	0.299	0.308	0.325	0.322	0.280	0.309	0.307	5.4
Methylene Chloride	0.861	0.706	0.606	0.510	0.511	0.524	0.620	22.7
trans-1,2-Dichloroethene	0.535	0.561	0.559	0.523	0.520	0.550	0.541	3.3
1,1-Dichloroethane	0.929	0.969	0.984	0.918	0.907	0.945	0.942	3.1
Cyclohexane	1.040	0.934	0.905	0.816	0.792	0.838	0.888	10.4
2-Butanone	0.135	0.152	0.143	0.142	0.129	0.142	0.140	5.5
Carbon Tetrachloride	0.490	0.486	0.505	0.466	0.466	0.484	0.483	3.1
cis-1,2-Dichloroethene	0.621	0.624	0.645	0.607	0.610	0.648	0.626	2.8
Bromochloromethane	0.367	0.379	0.393	0.365	0.367	0.371	0.374	2.9
Chloroform	0.969	0.997	1.002	0.943	0.936	0.981	0.971	2.8
1,1,1-Trichloroethane	0.862	0.877	0.899	0.837	0.833	0.864	0.862	2.8
Methylcyclohexane	0.574	0.579	0.605	0.566	0.575	0.614	0.586	3.3
Benzene	1.354	1.375	1.430	1.334	1.334	1.395	1.370	2.8
1,2-Dichloroethane	0.353	0.370	0.371	0.347	0.339	0.359	0.356	3.6
Trichloroethene	0.354	0.355	0.373	0.341	0.342	0.359	0.354	3.3
1,2-Dichloropropane	0.303	0.321	0.326	0.309	0.309	0.325	0.315	3.1
Bromodichloromethane	0.446	0.464	0.489	0.459	0.456	0.481	0.466	3.5
4-Methyl-2-Pentanone	0.168	0.201	0.200	0.199	0.190	0.211	0.195	7.7
Toluene	0.817	0.851	0.902	0.858	0.873	0.921	0.870	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: Alliance | Contract: PORT06

Lab Code: ACE | SDG No.: Q2832

Instrument ID: MSVOA_Y | Calibration Date(s): 08/12/2025 08/12/2025

Heated Purge: (Y/N) Y | Calibration Time(s): 14:54 16:47

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

LAB FILE ID: RRF005 = VY023050.D RRF010 = VY023051.D RRF020 = VY023052.D
RRF050 = VY023053.D RRF100 = VY023054.D RRF150 = VY023055.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.377	0.410	0.435	0.420	0.428	0.459	0.422	6.5
cis-1,3-Dichloropropene	0.457	0.486	0.513	0.496	0.500	0.540	0.499	5.5
1,1,2-Trichloroethane	0.230	0.242	0.253	0.239	0.236	0.254	0.242	4
2-Hexanone	0.112	0.134	0.137	0.136	0.131	0.146	0.133	8.6
Dibromochloromethane	0.300	0.317	0.326	0.318	0.316	0.340	0.320	4.1
1,2-Dibromoethane	0.206	0.232	0.237	0.226	0.222	0.242	0.228	5.6
Tetrachloroethene	0.477	0.463	0.475	0.435	0.393	0.437	0.446	7.2
Chlorobenzene	1.062	1.070	1.116	1.055	1.057	1.111	1.079	2.6
Ethyl Benzene	1.775	1.795	1.894	1.859	1.858	1.956	1.856	3.6
m/p-Xylenes	0.676	0.699	0.745	0.718	0.737	0.774	0.725	4.8
o-Xylene	0.605	0.643	0.696	0.686	0.702	0.742	0.679	7.1
Styrene	0.945	1.023	1.140	1.123	1.176	1.254	1.110	10
Bromoform	0.197	0.213	0.216	0.214	0.213	0.231	0.214	5
Isopropylbenzene	3.420	3.483	3.602	3.505	3.514	3.650	3.529	2.4
1,1,2,2-Tetrachloroethane	0.584	0.647	0.605	0.585	0.581	0.613	0.603	4.2
1,3-Dichlorobenzene	1.600	1.642	1.701	1.610	1.656	1.752	1.660	3.5
1,4-Dichlorobenzene	1.687	1.657	1.680	1.601	1.597	1.660	1.647	2.3
1,2-Dichlorobenzene	1.410	1.472	1.496	1.420	1.438	1.499	1.456	2.7
1,2-Dibromo-3-Chloropropane	0.093	0.096	0.094	0.095	0.086	0.098	0.094	4.3
1,2,4-Trichlorobenzene	0.788	0.839	0.881	0.847	0.856	0.955	0.861	6.4
1,2,3-Trichlorobenzene	0.685	0.733	0.752	0.720	0.727	0.834	0.742	6.7
1,2-Dichloroethane-d4	0.491	0.490	0.482	0.462	0.472	0.462	0.477	2.7
Dibromofluoromethane	0.290	0.299	0.301	0.293	0.307	0.305	0.299	2.1
Toluene-d8	1.151	1.157	1.173	1.143	1.202	1.186	1.169	1.9
4-Bromofluorobenzene	0.358	0.367	0.367	0.370	0.399	0.394	0.376	4.4

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: PORT06
Lab Code: ACE
SDG No.: Q2832
Instrument ID: MSVOA_Y
Calibration Date/Time: 08/15/2025 08:39
Lab File ID: VY023111.D
Init. Calib. Date(s): 08/12/2025 08/12/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 14:54 16:47
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.408	0.332		-18.63	20
Chloromethane	0.661	0.651	0.1	-1.51	20
Vinyl Chloride	0.817	0.876		7.22	20
Bromomethane	0.610	0.659		8.03	20
Chloroethane	0.543	0.599		10.31	20
Trichlorofluoromethane	0.994	0.982		-1.21	20
1,1,2-Trichlorotrifluoroethane	0.490	0.484		-1.22	20
1,1-Dichloroethene	0.482	0.471		-2.28	20
Acetone	0.103	0.116		12.62	20
Carbon Disulfide	1.571	1.520		-3.25	20
Methyl tert-butyl Ether	1.249	1.209		-3.2	20
Methyl Acetate	0.307	0.297		-3.26	20
Methylene Chloride	0.620	0.543		-12.42	20
trans-1,2-Dichloroethene	0.541	0.549		1.48	20
1,1-Dichloroethane	0.942	0.968	0.1	2.76	20
Cyclohexane	0.888	0.845		-4.84	20
2-Butanone	0.140	0.143		2.14	20
Carbon Tetrachloride	0.483	0.506		4.76	20
cis-1,2-Dichloroethene	0.626	0.643		2.72	20
Bromochloromethane	0.374	0.395		5.61	20
Chloroform	0.971	1.017		4.74	20
1,1,1-Trichloroethane	0.862	0.888		3.02	20
Methylcyclohexane	0.586	0.583		-0.51	20
Benzene	1.370	1.455		6.2	20
1,2-Dichloroethane	0.356	0.372		4.49	20
Trichloroethene	0.354	0.366		3.39	20
1,2-Dichloropropane	0.315	0.335		6.35	20
Bromodichloromethane	0.466	0.496		6.44	20
4-Methyl-2-Pentanone	0.195	0.194		-0.51	20
Toluene	0.870	0.928		6.67	20
t-1,3-Dichloropropene	0.422	0.434		2.84	20
cis-1,3-Dichloropropene	0.499	0.523		4.81	20
1,1,2-Trichloroethane	0.242	0.252		4.13	20
2-Hexanone	0.133	0.135		1.5	20
Dibromochloromethane	0.320	0.332		3.75	20
1,2-Dibromoethane	0.228	0.230		0.88	20
Tetrachloroethene	0.446	0.469		5.16	20
Chlorobenzene	1.079	1.142	0.3	5.84	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: Alliance Contract: PORT06

Lab Code: ACE SDG No.: Q2832

Instrument ID: MSVOA_Y Calibration Date/Time: 08/15/2025 08:39

Lab File ID: VY023111.D Init. Calib. Date(s): 08/12/2025 08/12/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 14:54 16:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.856	2.009		8.24	20
m/p-Xylenes	0.725	0.785		8.28	20
o-Xylene	0.679	0.736		8.4	20
Styrene	1.110	1.238		11.53	20
Bromoform	0.214	0.212	0.1	-0.94	20
Isopropylbenzene	3.529	3.734		5.81	20
1,1,2,2-Tetrachloroethane	0.603	0.595	0.3	-1.33	20
1,3-Dichlorobenzene	1.660	1.748		5.3	20
1,4-Dichlorobenzene	1.647	1.696		2.97	20
1,2-Dichlorobenzene	1.456	1.499		2.95	20
1,2-Dibromo-3-Chloropropane	0.094	0.090		-4.26	20
1,2,4-Trichlorobenzene	0.861	0.793		-7.9	20
1,2,3-Trichlorobenzene	0.742	0.679		-8.49	20
1,2-Dichloroethane-d4	0.477	0.480		0.63	20
Dibromofluoromethane	0.299	0.309		3.34	20
Toluene-d8	1.169	1.206		3.16	20
4-Bromofluorobenzene	0.376	0.376		0	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\VY081525\
Data File : VY023123.D
Acq On : 15 Aug 2025 14:24
Operator : SY/MD
Sample : Q2832-01
Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S01

Quant Time: Aug 18 02:29:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	579878	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1082547	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	969395	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	391179	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	314307	56.871	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.740%			
35) Dibromofluoromethane	7.634	113	330279	50.988	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.980%			
50) Toluene-d8	10.103	98	1310550	51.789	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.580%			
62) 4-Bromofluorobenzene	12.401	95	391369	48.091	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.180%			

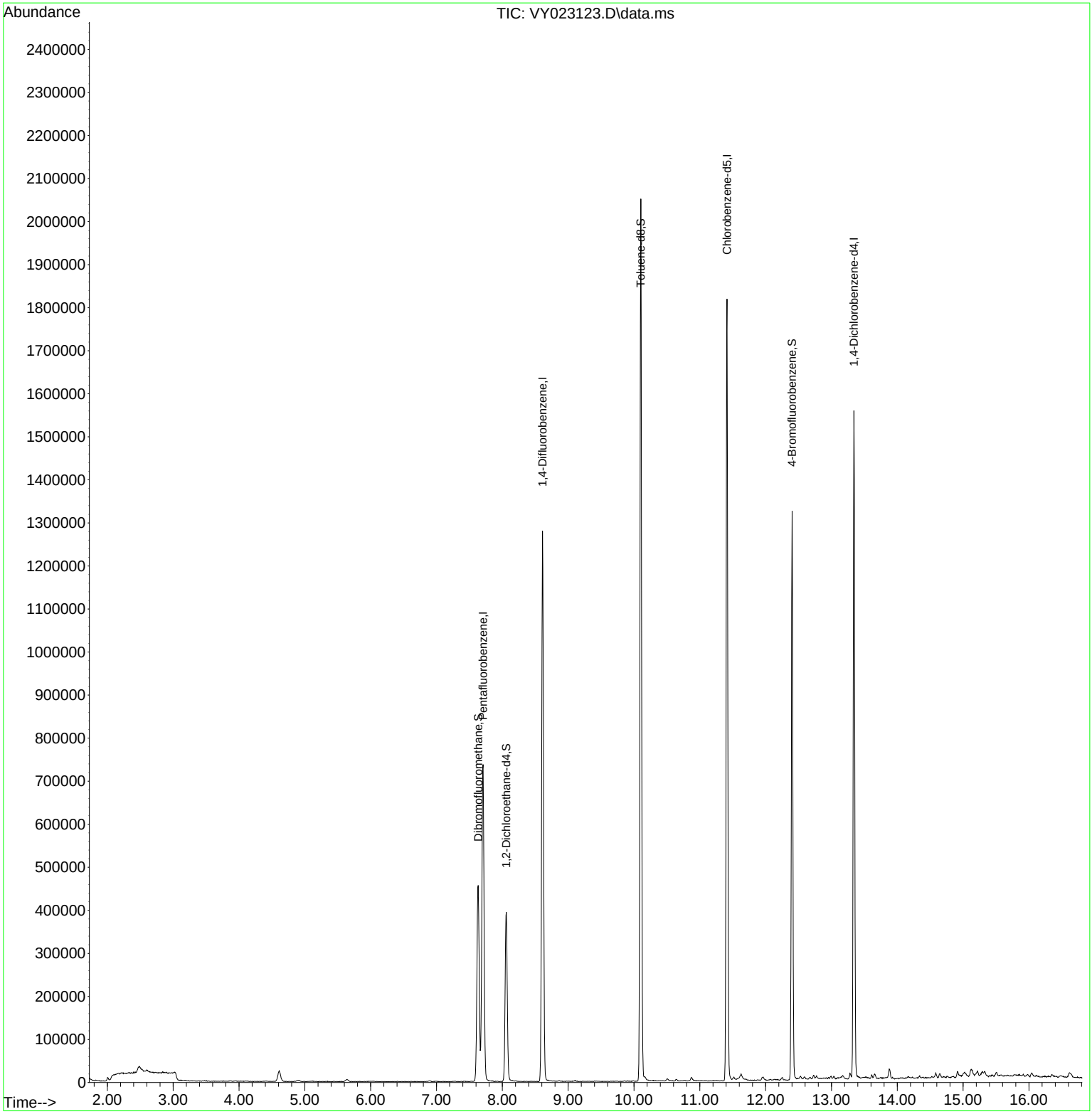
Target Compounds Qvalue

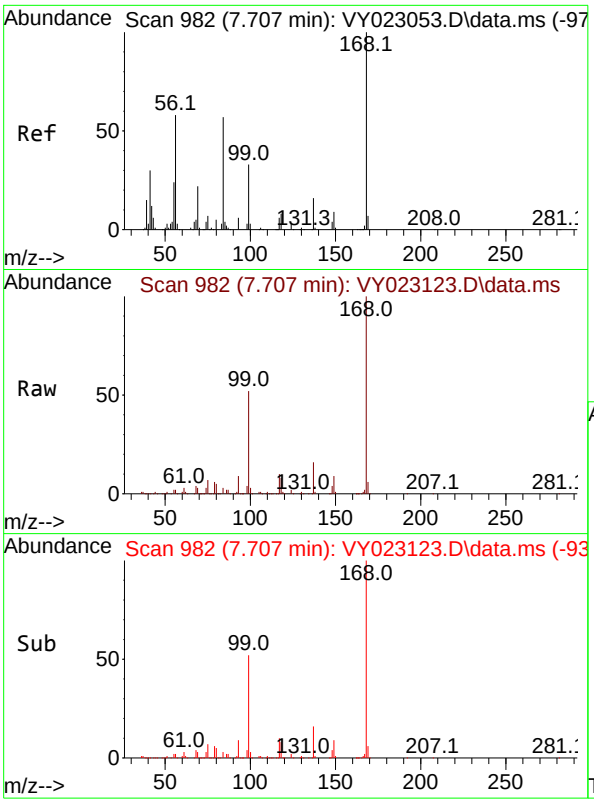
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023123.D
Acq On : 15 Aug 2025 14:24
Operator : SY/MD
Sample : Q2832-01
Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S01

Quant Time: Aug 18 02:29:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



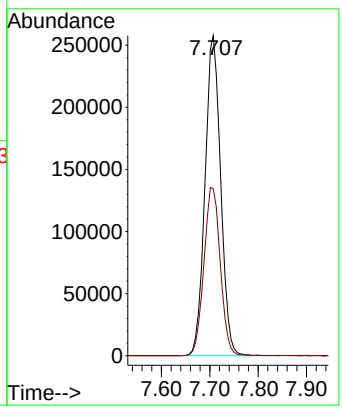


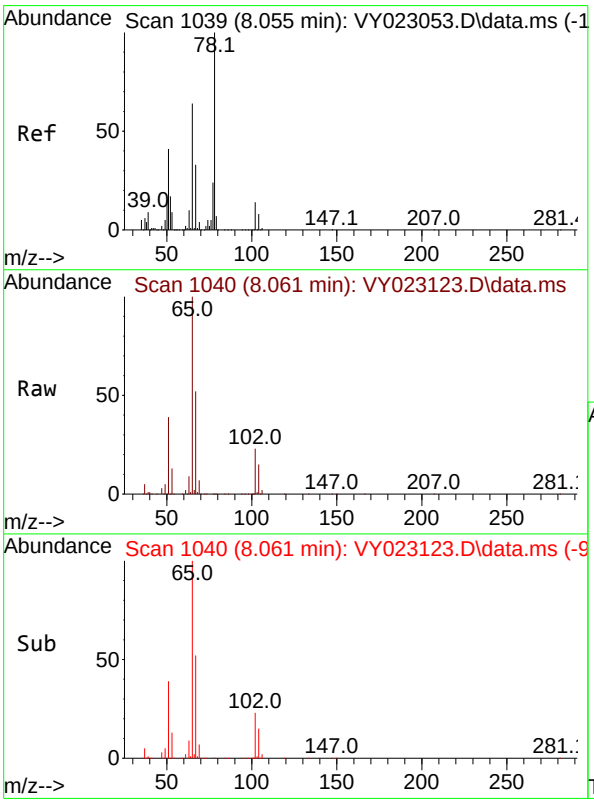
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023123.D
Acq: 15 Aug 2025 14:24

Instrument :
MSVOA_Y
ClientSampleId :
TG-S01

Tgt Ion:168 Resp: 579878

Ion	Ratio	Lower	Upper
168	100		
99	52.2	42.8	64.2

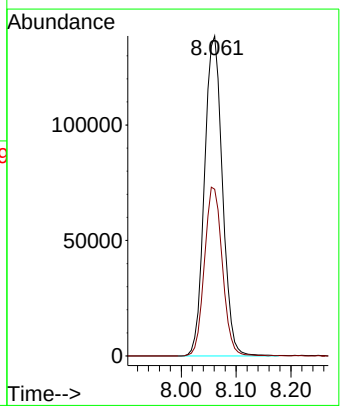


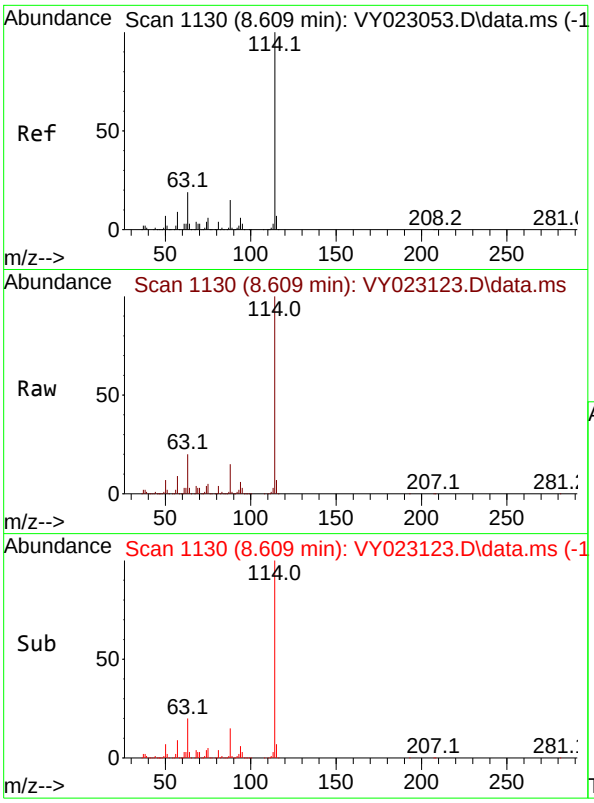


#33
1,2-Dichloroethane-d4
Concen: 56.871 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023123.D
Acq: 15 Aug 2025 14:24

Tgt Ion: 65 Resp: 314307

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.8



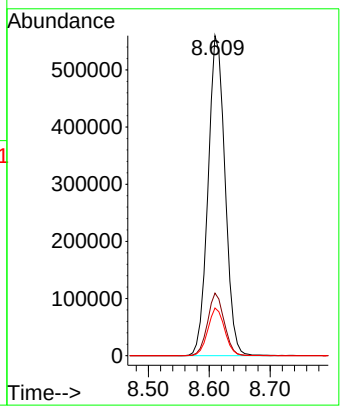


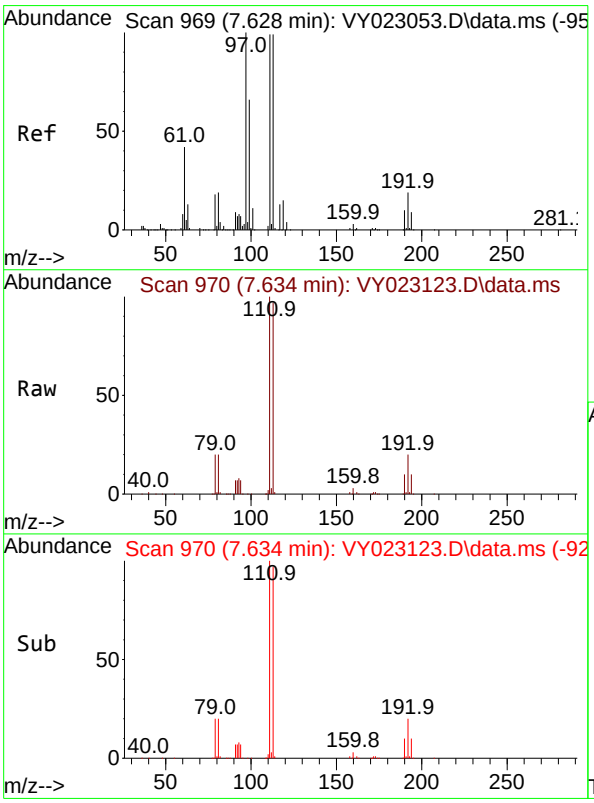
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023123.D
Acq: 15 Aug 2025 14:24

Instrument :
MSVOA_Y
ClientSampleId :
TG-S01

Tgt Ion:114 Resp: 1082547

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.4
88	14.9	0.0	30.0

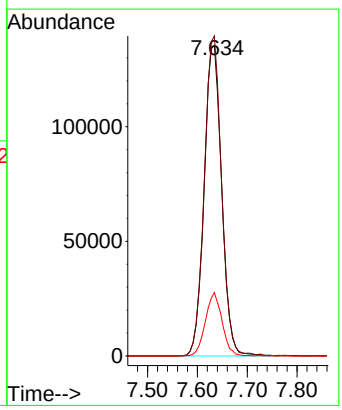


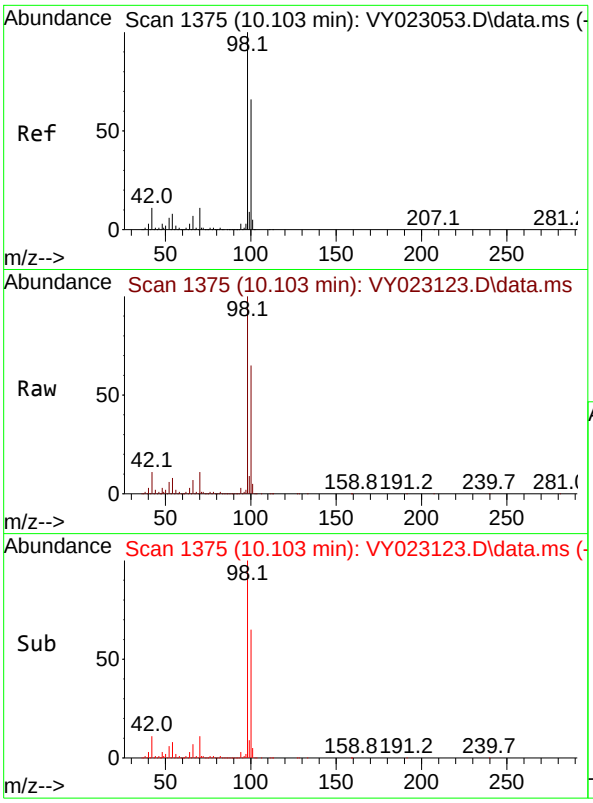


#35
Dibromofluoromethane
Concen: 50.988 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023123.D
Acq: 15 Aug 2025 14:24

Tgt Ion:113 Resp: 330279

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.1	121.7
192	19.4	16.2	24.4



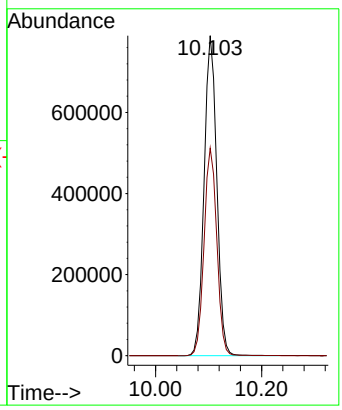


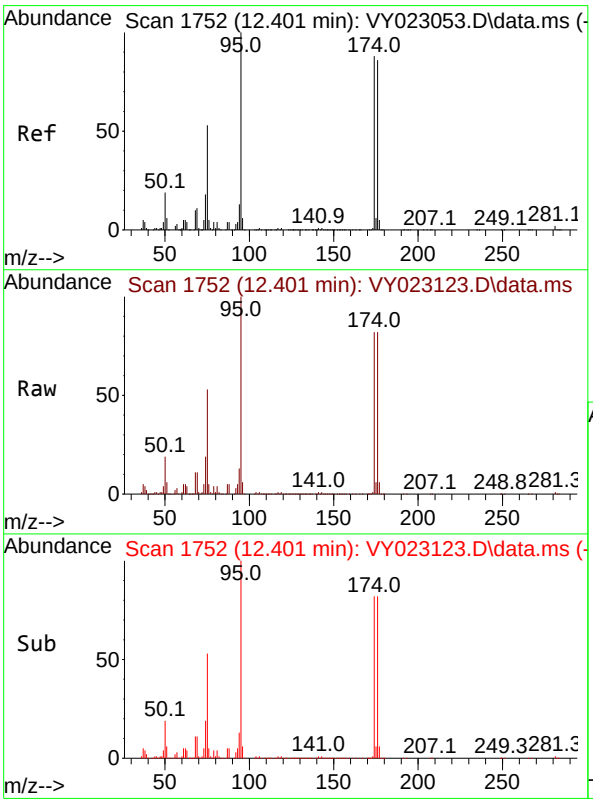
#50
Toluene-d8
Concen: 51.789 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023123.D
Acq: 15 Aug 2025 14:24

Instrument :
MSVOA_Y
ClientSampleId :
TG-S01

Tgt Ion: 98 Resp: 1310550

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.3	78.5

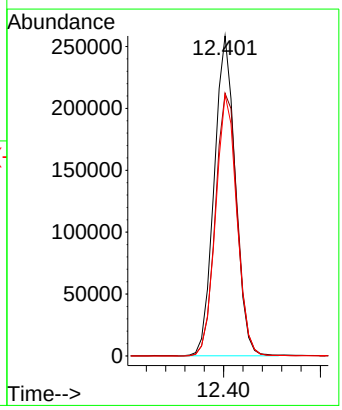


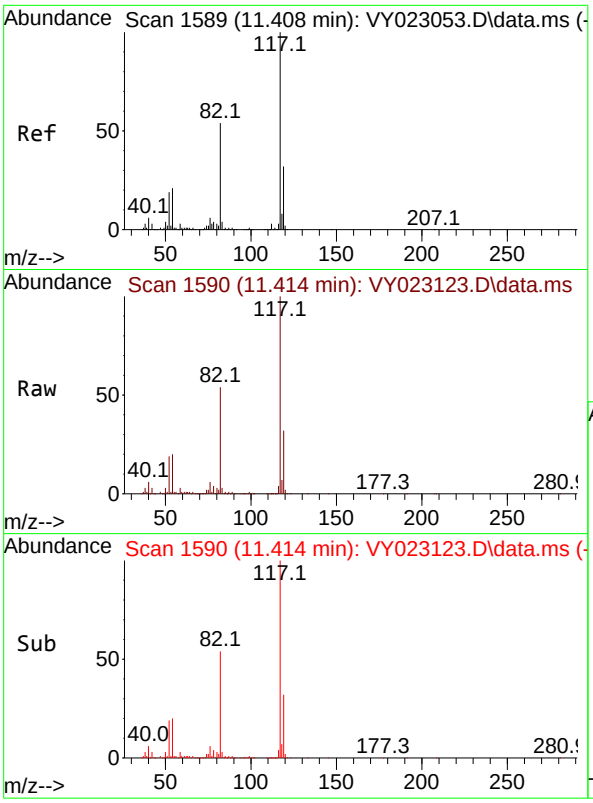


#62
4-Bromofluorobenzene
Concen: 48.091 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023123.D
Acq: 15 Aug 2025 14:24

Tgt Ion: 95 Resp: 391369

Ion	Ratio	Lower	Upper
95	100		
174	85.4	0.0	171.6
176	81.9	0.0	167.6



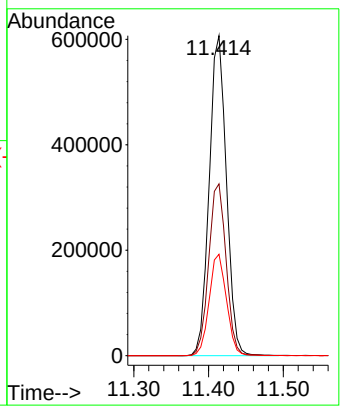


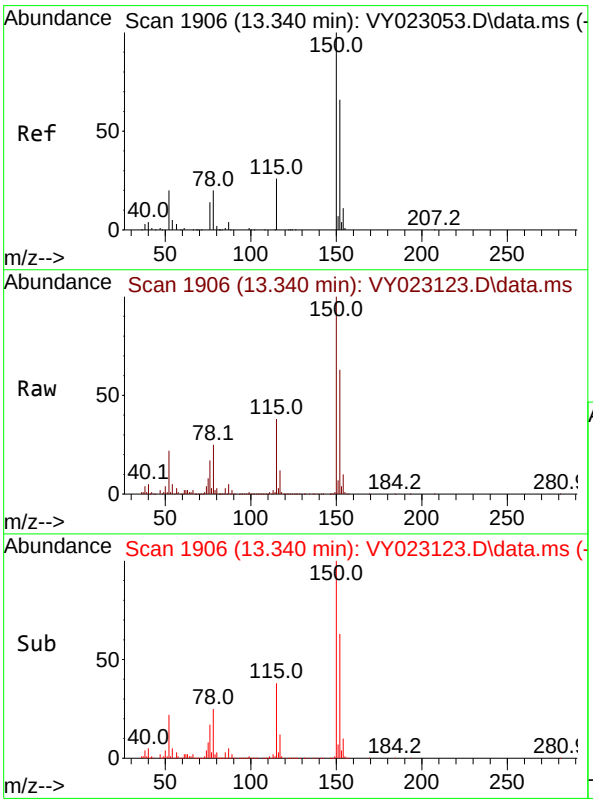
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023123.D
Acq: 15 Aug 2025 14:24

Instrument :
MSVOA_Y
ClientSampleId :
TG-S01

Tgt Ion:117 Resp: 969395

Ion	Ratio	Lower	Upper
117	100		
82	53.7	43.4	65.0
119	31.7	25.6	38.4

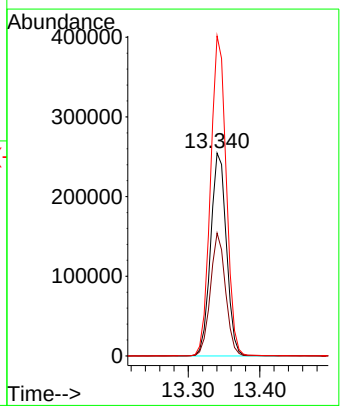




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023123.D
Acq: 15 Aug 2025 14:24

Tgt Ion:152 Resp: 391179

Ion	Ratio	Lower	Upper
152	100		
115	57.6	28.2	84.6
150	156.6	0.0	348.0



Sample Results: **VY023123.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023123.D
Acq On : 15 Aug 2025 14:24
Operator : SY/MD
Sample : Q2832-01
Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S01

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\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023123.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.489	118	126	130	rBV	14204	42096	1.22%	0.244%
2	4.610	463	474	485	rBV2	24912	75379	2.19%	0.437%
3	7.634	957	970	975	rBV	455416	1091512	31.76%	6.323%
4	7.707	975	982	996	rVB	735183	1709852	49.75%	9.905%
5	8.061	1030	1040	1054	rBV	393433	901231	26.22%	5.221%
6	8.609	1119	1130	1142	rBV	1279962	2470351	71.88%	14.310%
7	10.103	1365	1375	1383	rBV	2050335	3436796	100.00%	19.909%
8	11.414	1580	1590	1602	rBV	1816740	2977386	86.63%	17.248%
9	11.627	1613	1625	1634	rBV6	12814	35450	1.03%	0.205%
10	12.401	1745	1752	1763	rBV	1321810	2054719	59.79%	11.903%
11	13.340	1900	1906	1922	rVB	1551930	2390125	69.55%	13.846%
12	13.877	1990	1994	2000	rVB2	21576	37922	1.10%	0.220%
13	15.120	2193	2198	2206	rVB3	14734	39865	1.16%	0.231%

Sum of corrected areas: 17262684

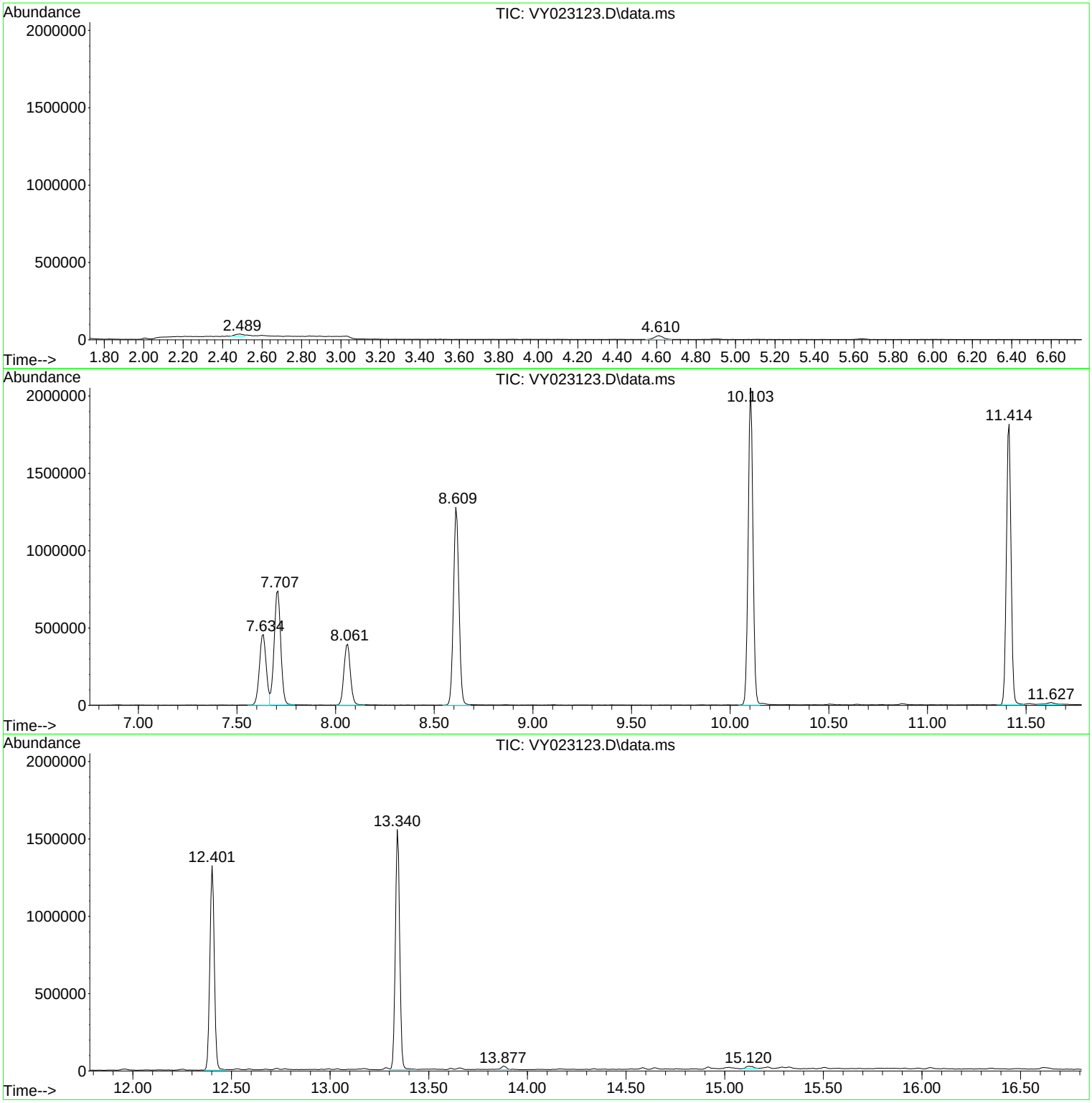
Sample Results: **VY023123.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023123.D
Acq On : 15 Aug 2025 14:24
Operator : SY/MD
Sample : Q2832-01
Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY023123.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023123.D
Acq On : 15 Aug 2025 14:24
Operator : SY/MD
Sample : Q2832-01
Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY081525\
Data File : VY023123.D
Acq On : 15 Aug 2025 14:24
Operator : SY/MD
Sample : Q2832-01
Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY081525\
Data File : VY023124.D
Acq On : 15 Aug 2025 14:47
Operator : SY/MD
Sample : Q2832-03
Misc : 4.64g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S02

Quant Time: Aug 18 02:29:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	570487	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1076714	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	962307	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	380373	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	322028	59.228	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.460%			
35) Dibromofluoromethane	7.628	113	335608	52.091	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.180%			
50) Toluene-d8	10.103	98	1306653	51.915	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.840%			
62) 4-Bromofluorobenzene	12.401	95	384788	47.538	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.080%			

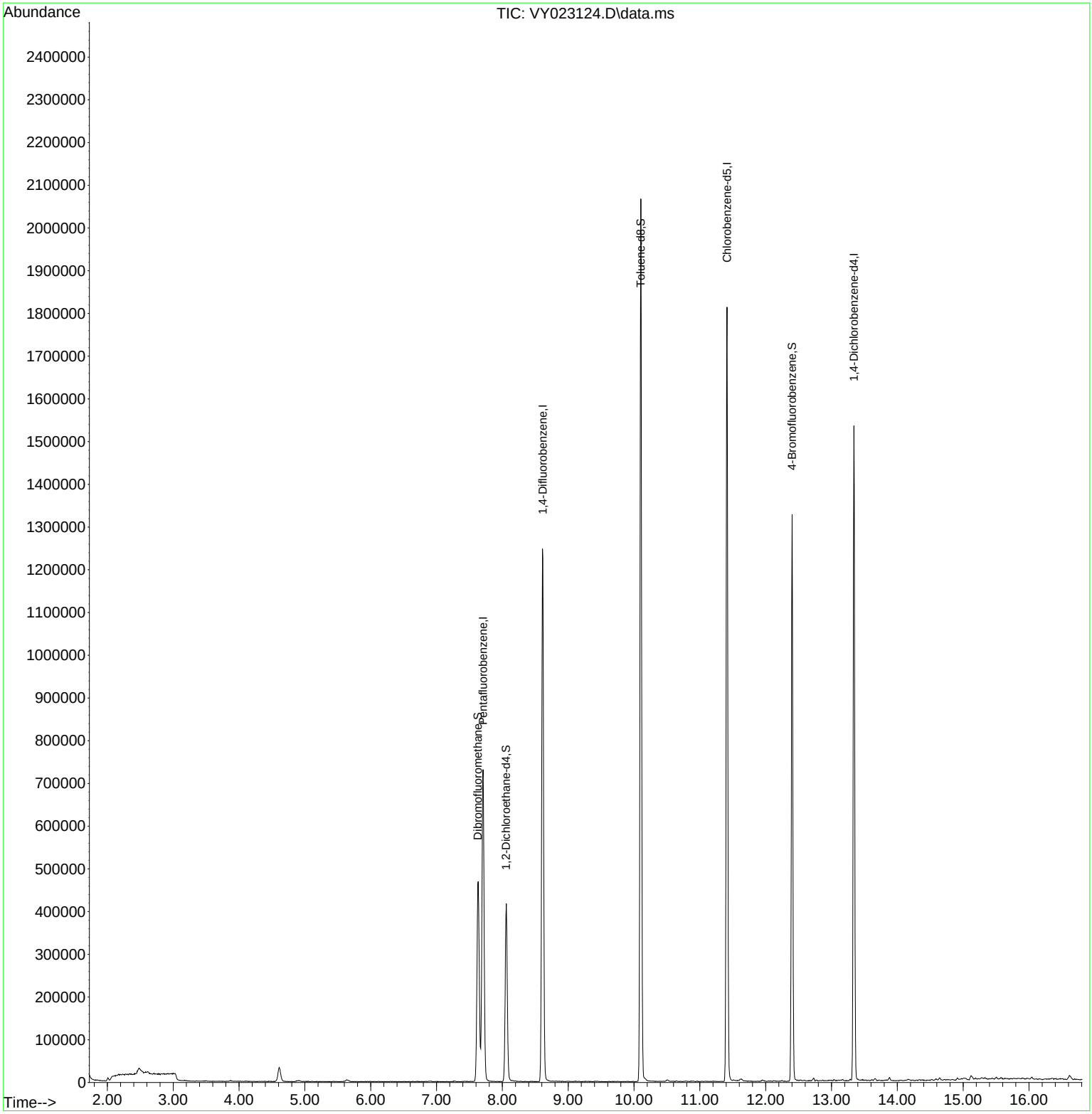
Target Compounds Qvalue

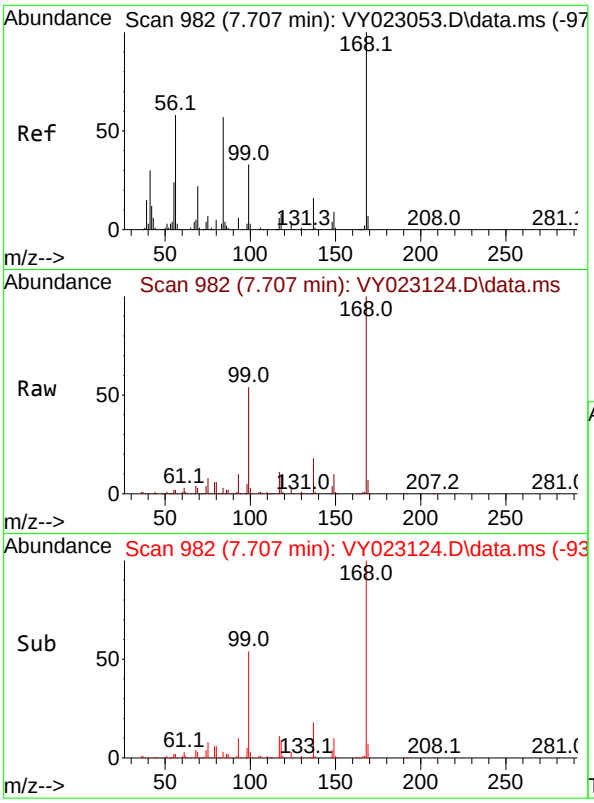
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023124.D
Acq On : 15 Aug 2025 14:47
Operator : SY/MD
Sample : Q2832-03
Misc : 4.64g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S02

Quant Time: Aug 18 02:29:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



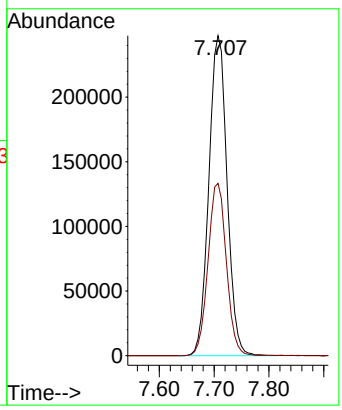


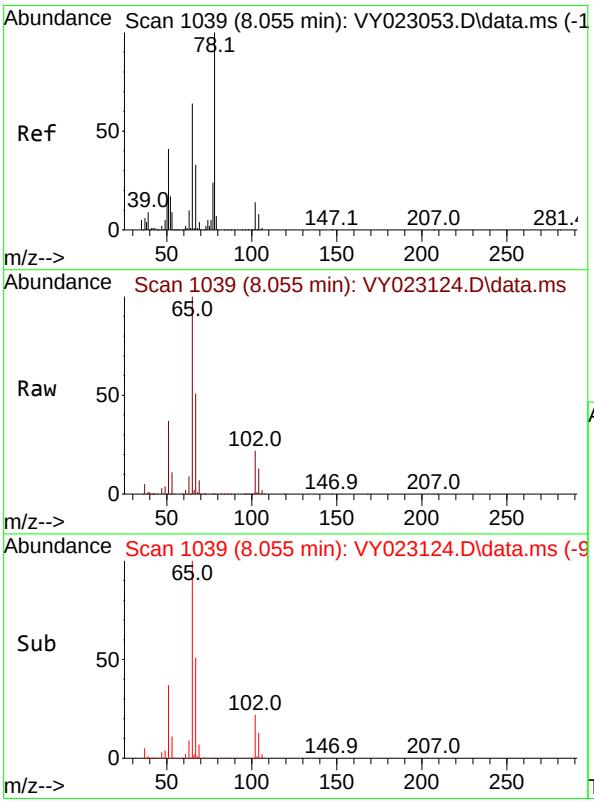
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023124.D
Acq: 15 Aug 2025 14:47

Instrument :
MSVOA_Y
ClientSampleId :
TG-S02

Tgt Ion:168 Resp: 570487

Ion	Ratio	Lower	Upper
168	100		
99	53.9	42.8	64.2

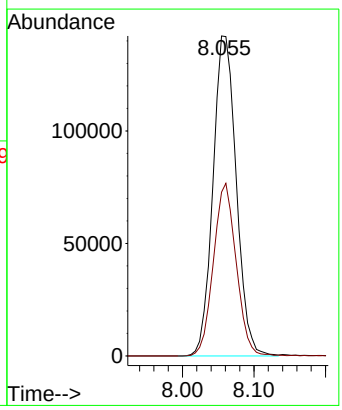


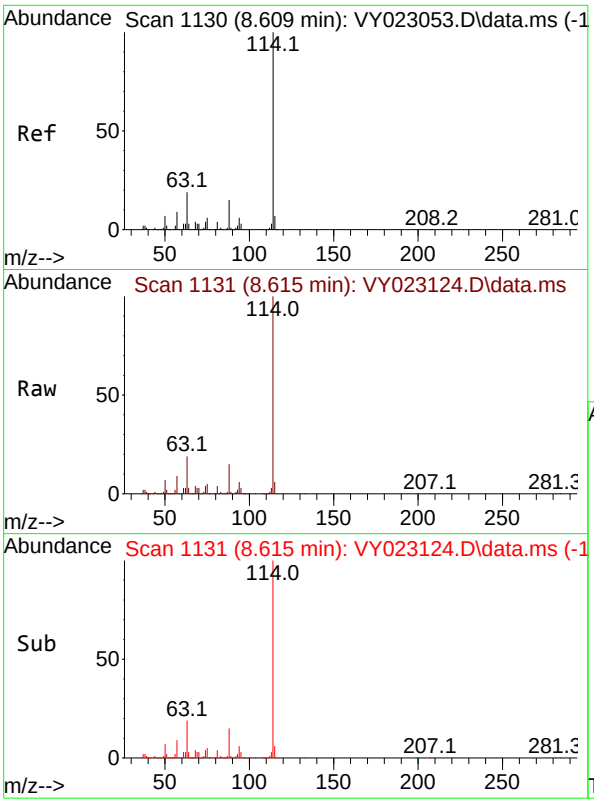


#33
1,2-Dichloroethane-d4
Concen: 59.228 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY023124.D
Acq: 15 Aug 2025 14:47

Tgt Ion: 65 Resp: 322028

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.8



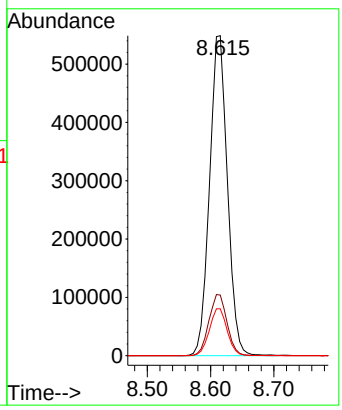


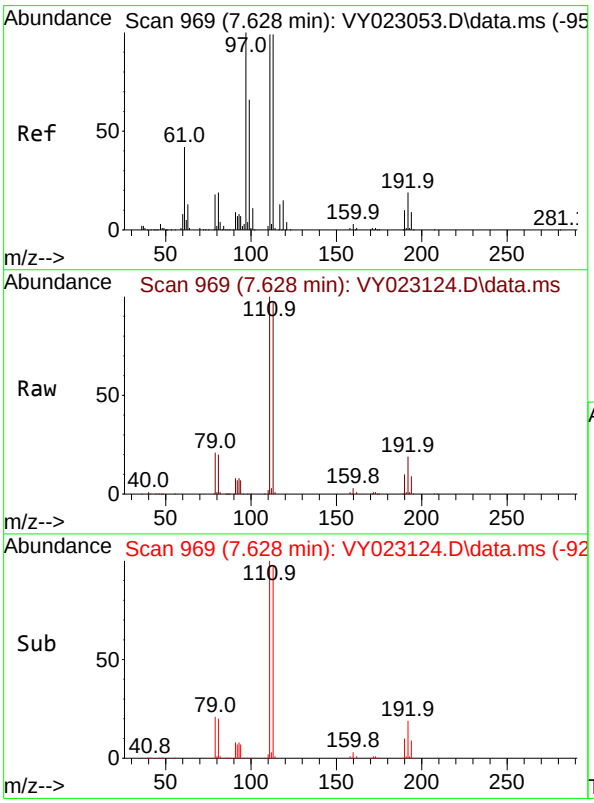
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023124.D
Acq: 15 Aug 2025 14:47

Instrument :
MSVOA_Y
ClientSampleId :
TG-S02

Tgt Ion:114 Resp: 1076714

Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	38.4
88	14.7	0.0	30.0

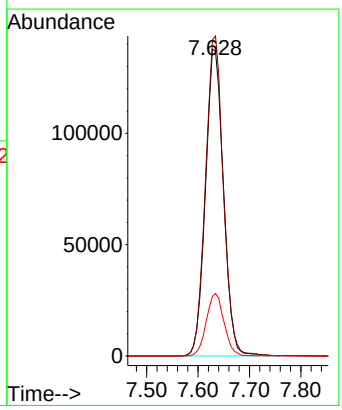


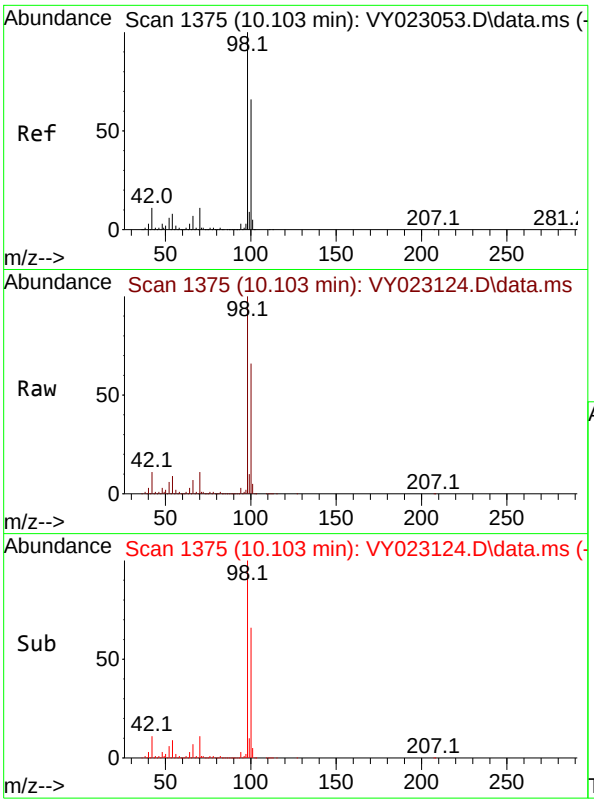


#35
Dibromofluoromethane
Concen: 52.091 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.000 min
Lab File: VY023124.D
Acq: 15 Aug 2025 14:47

Tgt Ion:113 Resp: 335608

Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.1	121.7
192	20.0	16.2	24.4



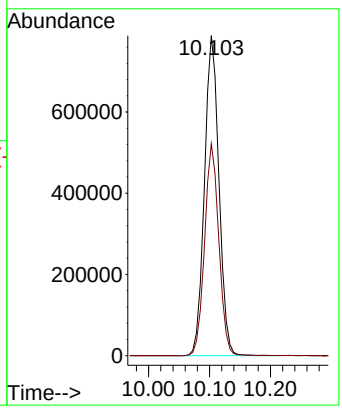


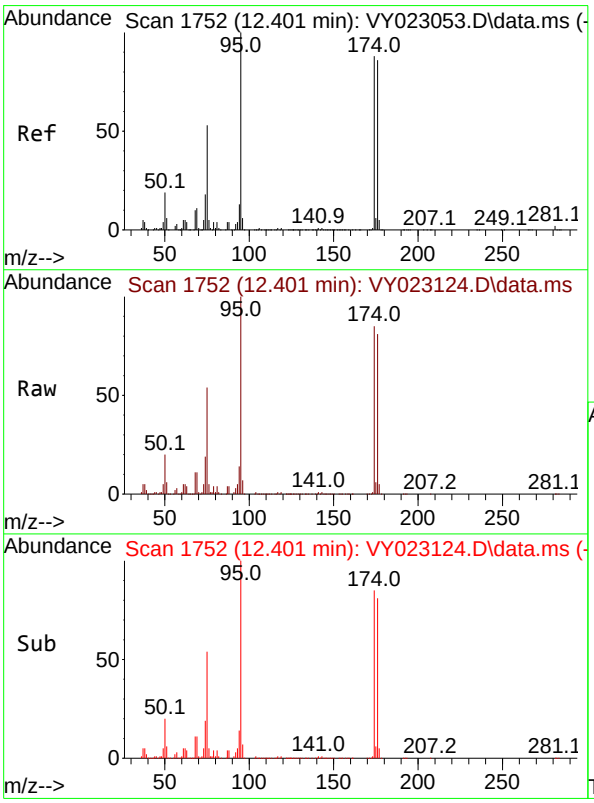
#50
Toluene-d8
Concen: 51.915 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023124.D
Acq: 15 Aug 2025 14:47

Instrument :
MSVOA_Y
ClientSampleId :
TG-S02

Tgt Ion: 98 Resp: 1306653

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.3	78.5

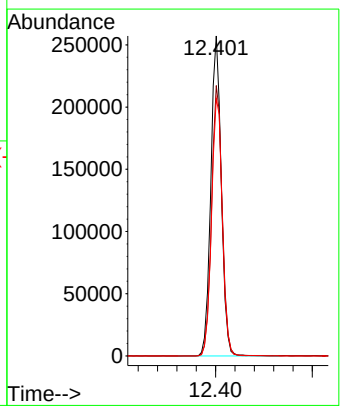


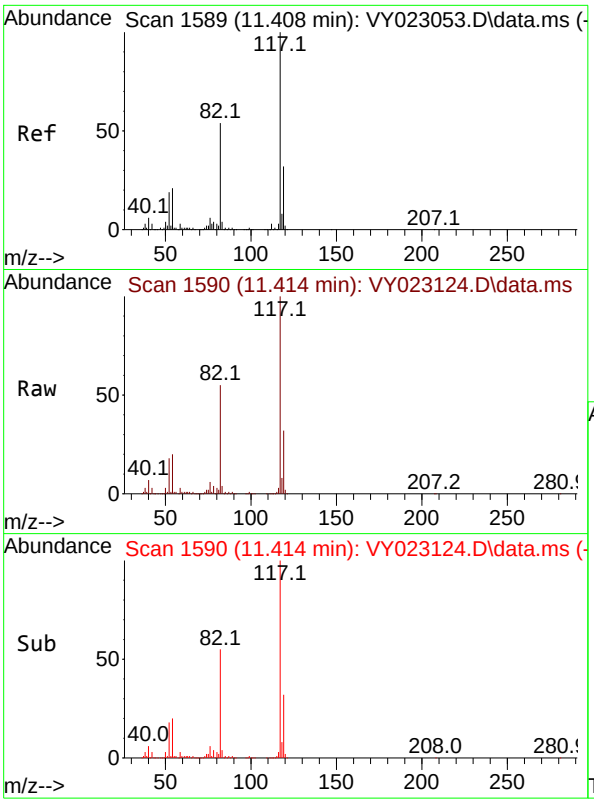


#62
4-Bromofluorobenzene
Concen: 47.538 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023124.D
Acq: 15 Aug 2025 14:47

Tgt Ion: 95 Resp: 384788

Ion	Ratio	Lower	Upper
95	100		
174	86.2	0.0	171.6
176	82.8	0.0	167.6



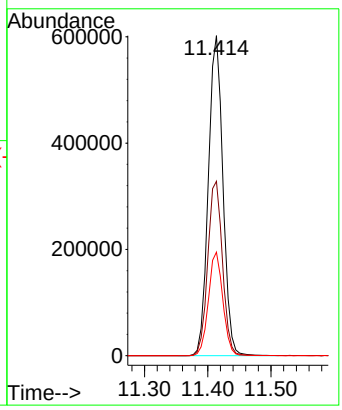


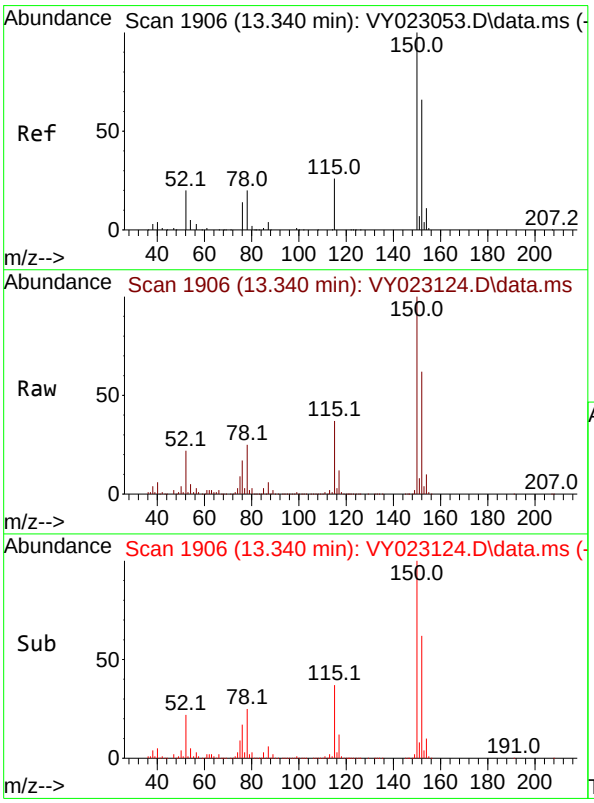
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023124.D
Acq: 15 Aug 2025 14:47

Instrument :
MSVOA_Y
ClientSampleId :
TG-S02

Tgt Ion:117 Resp: 962307

Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.4	65.0
119	32.4	25.6	38.4

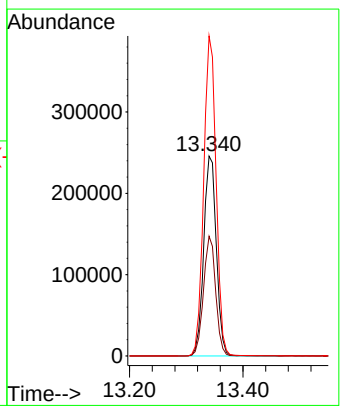




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY023124.D
Acq: 15 Aug 2025 14:47

Tgt Ion:152 Resp: 380373

Ion	Ratio	Lower	Upper
152	100		
115	57.8	28.2	84.6
150	157.3	0.0	348.0



Sample Results: **VY023124.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023124.D
Acq On : 15 Aug 2025 14:47
Operator : SY/MD
Sample : Q2832-03
Misc : 4.64g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S02

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\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023124.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.117	52	65	66	rBV4	10374	37955	1.10%	0.223%
2	2.482	118	125	130	rBV4	12631	35208	1.02%	0.206%
3	4.610	462	474	486	rBV	33132	100295	2.92%	0.588%
4	7.634	959	970	976	rBV	467828	1142116	33.22%	6.696%
5	7.707	976	982	994	rVB	728086	1652531	48.07%	9.689%
6	8.061	1030	1040	1052	rBV	416753	922159	26.82%	5.407%
7	8.609	1121	1130	1145	rBV	1246935	2457169	71.47%	14.406%
8	10.103	1366	1375	1393	rBV	2065981	3437963	100.00%	20.157%
9	11.414	1582	1590	1601	rBV	1812157	2939984	85.52%	17.237%
10	12.401	1744	1752	1764	rBV	1326943	2018075	58.70%	11.832%
11	13.340	1900	1906	1915	rBV	1531386	2312734	67.27%	13.560%

Sum of corrected areas: 17056189

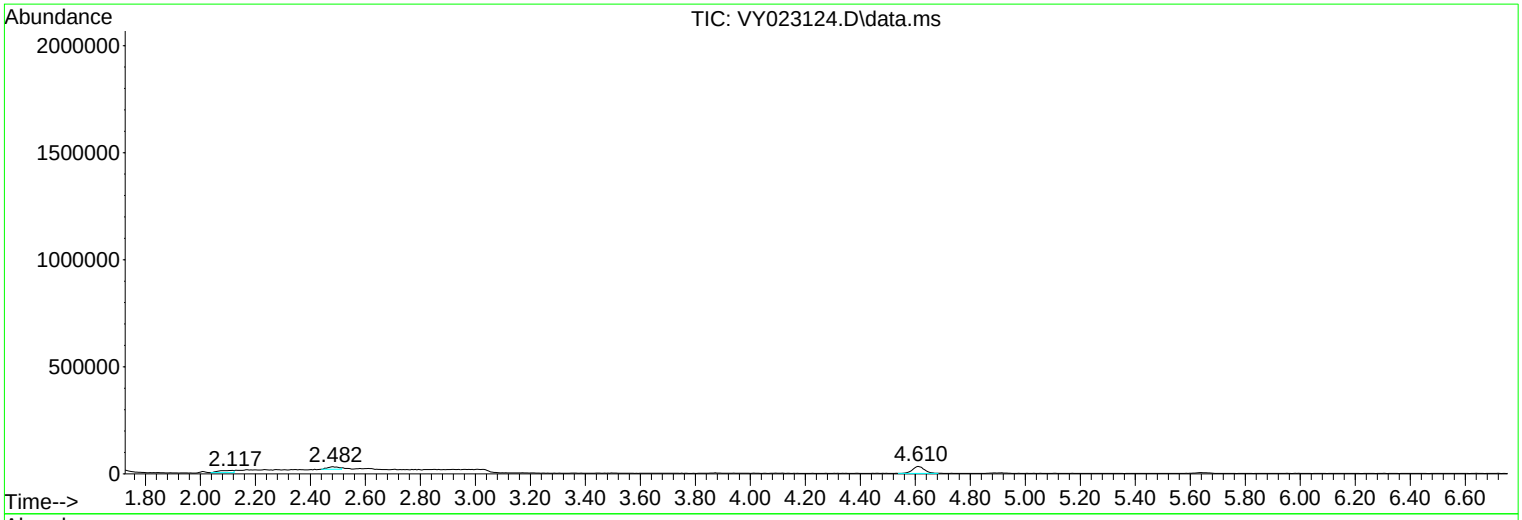
Sample Results: **VY023124.D**

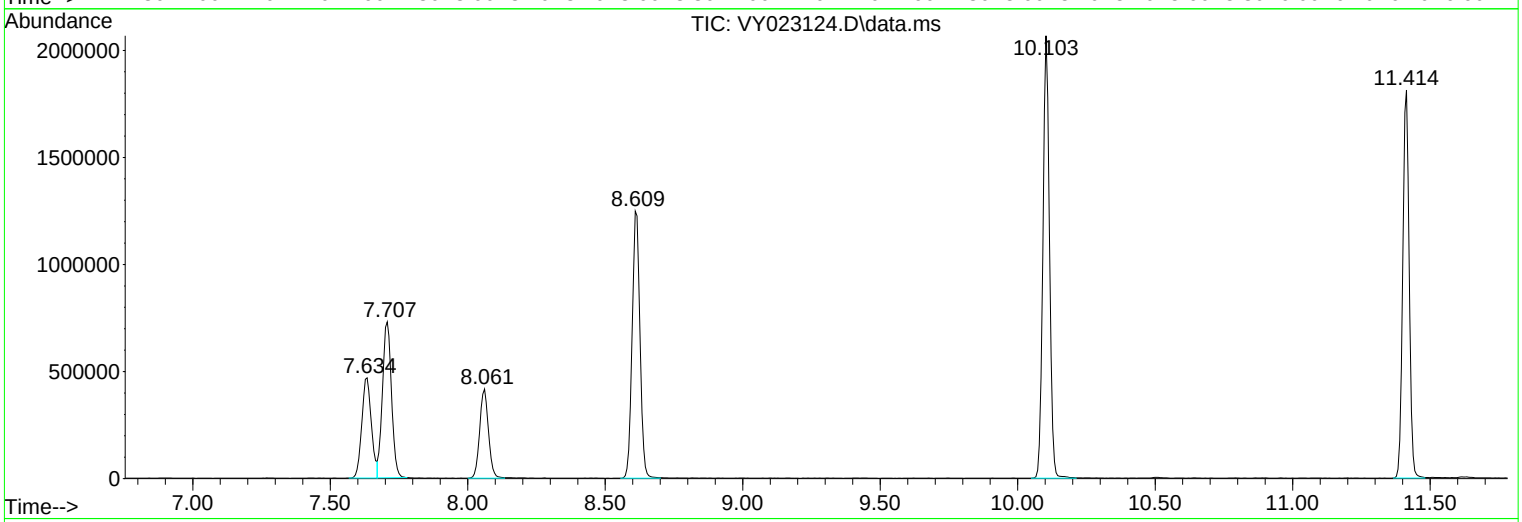
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023124.D
Acq On : 15 Aug 2025 14:47
Operator : SY/MD
Sample : Q2832-03
Misc : 4.64g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

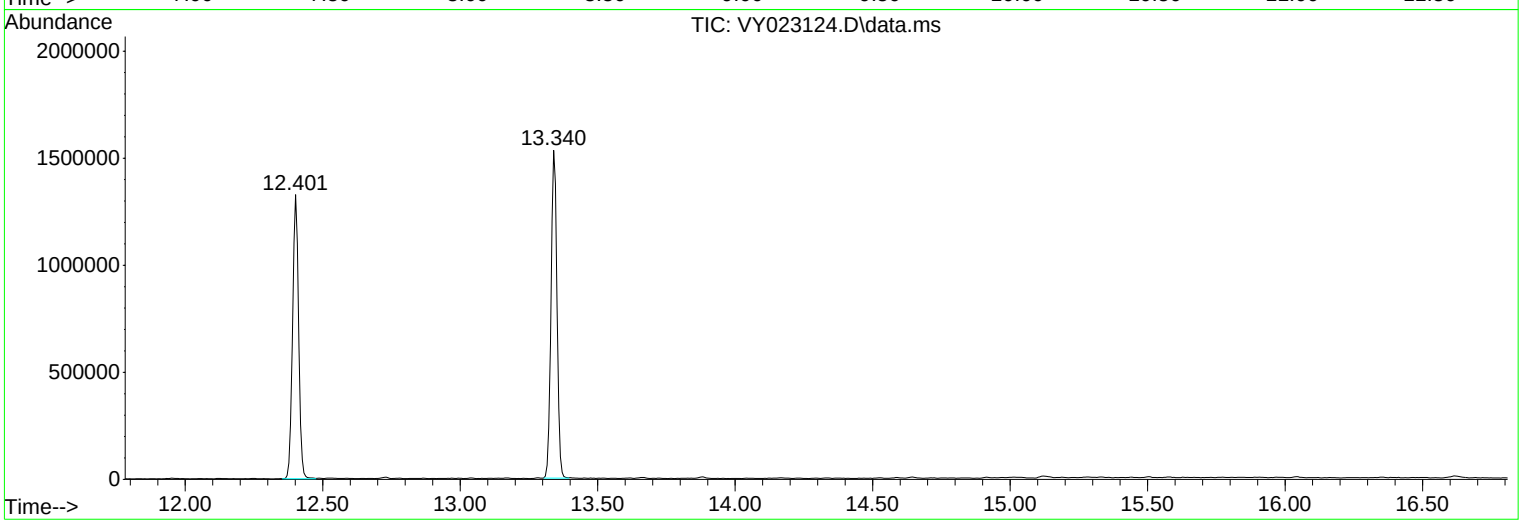
Instrument :
MSVOA_Y
ClientSampleId :
TG-S02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023124.D
Acq On : 15 Aug 2025 14:47
Operator : SY/MD
Sample : Q2832-03
Misc : 4.64g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY081525\
Data File : VY023124.D
Acq On : 15 Aug 2025 14:47
Operator : SY/MD
Sample : Q2832-03
Misc : 4.64g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY081525\
Data File : VY023125.D
Acq On : 15 Aug 2025 15:11
Operator : SY/MD
Sample : Q2832-05
Misc : 3.86g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S03

Quant Time: Aug 18 02:30:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

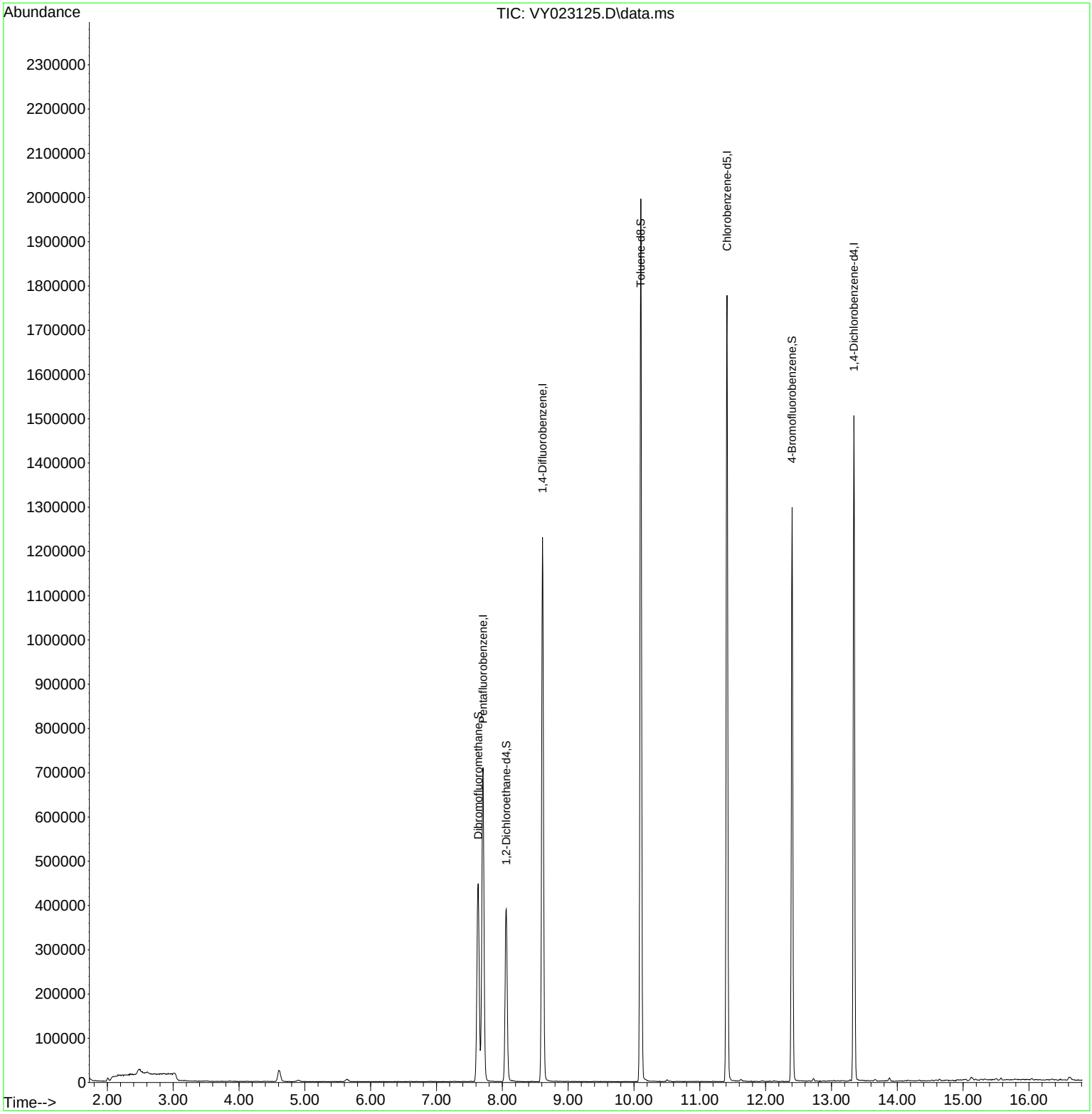
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	553899	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1043284	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	947118	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	378902	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	312610	59.217	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.440%			
35) Dibromofluoromethane	7.634	113	321045	51.427	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.860%			
50) Toluene-d8	10.103	98	1284070	52.653	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.300%			
62) 4-Bromofluorobenzene	12.401	95	382572	48.779	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.560%			
Target Compounds						Qvalue

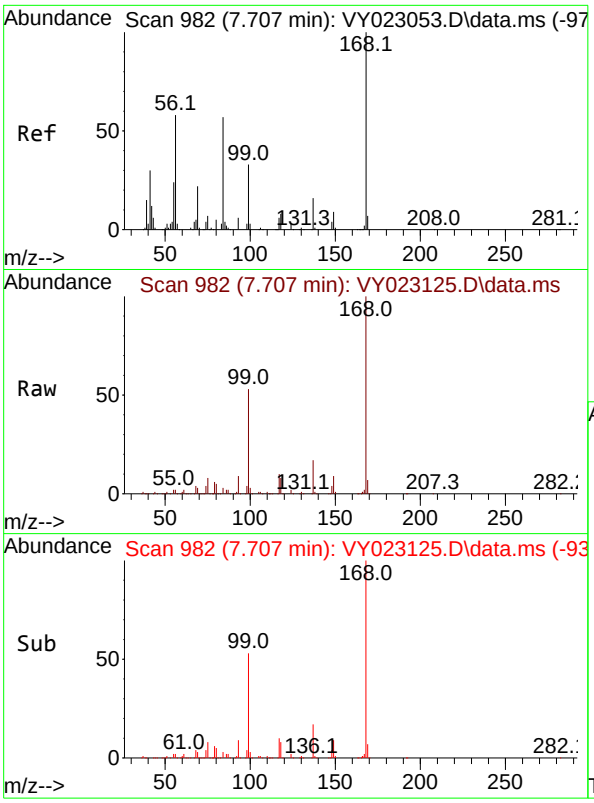
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023125.D
Acq On : 15 Aug 2025 15:11
Operator : SY/MD
Sample : Q2832-05
Misc : 3.86g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S03

Quant Time: Aug 18 02:30:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



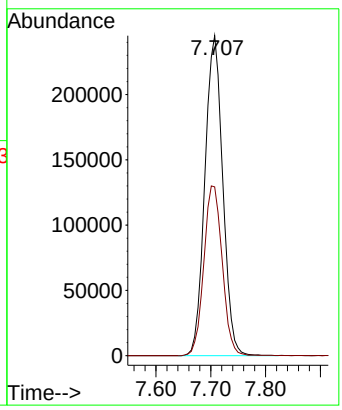


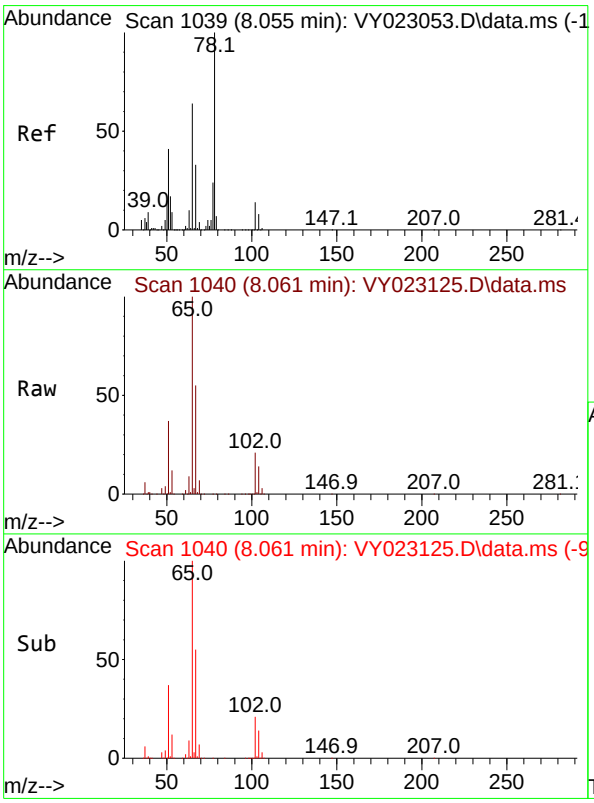
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023125.D
Acq: 15 Aug 2025 15:11

Instrument :
MSVOA_Y
ClientSampleId :
TG-S03

Tgt Ion:168 Resp: 553899

Ion	Ratio	Lower	Upper
168	100		
99	52.8	42.8	64.2

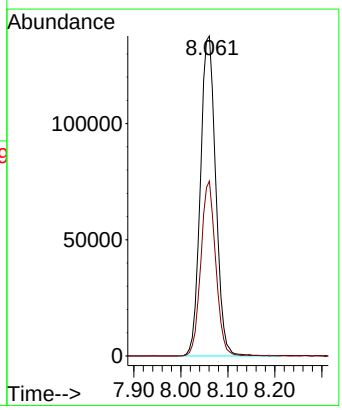


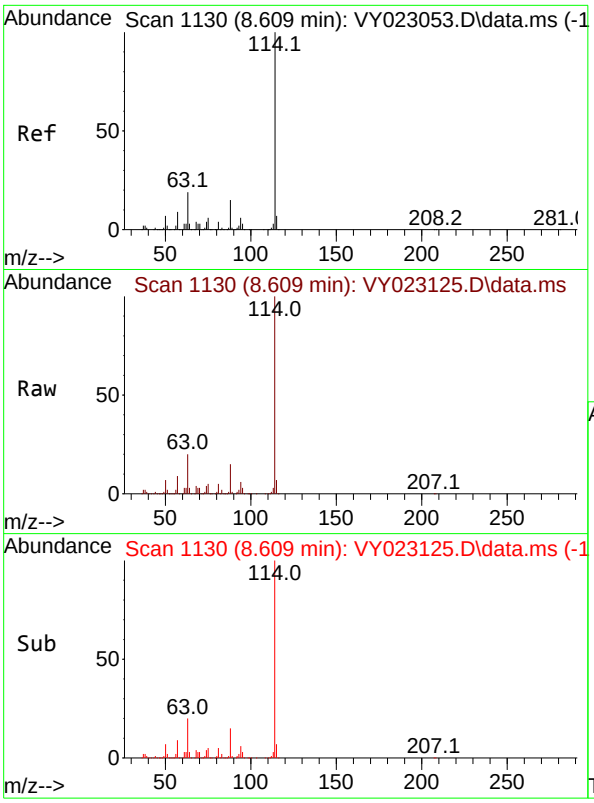


#33
1,2-Dichloroethane-d4
Concen: 59.217 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023125.D
Acq: 15 Aug 2025 15:11

Tgt Ion: 65 Resp: 312610

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.8



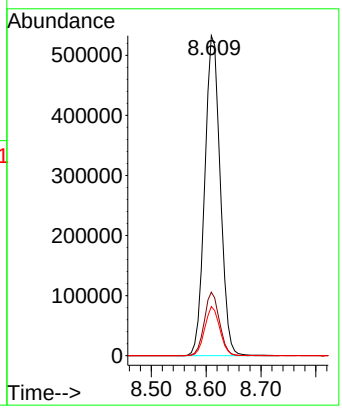


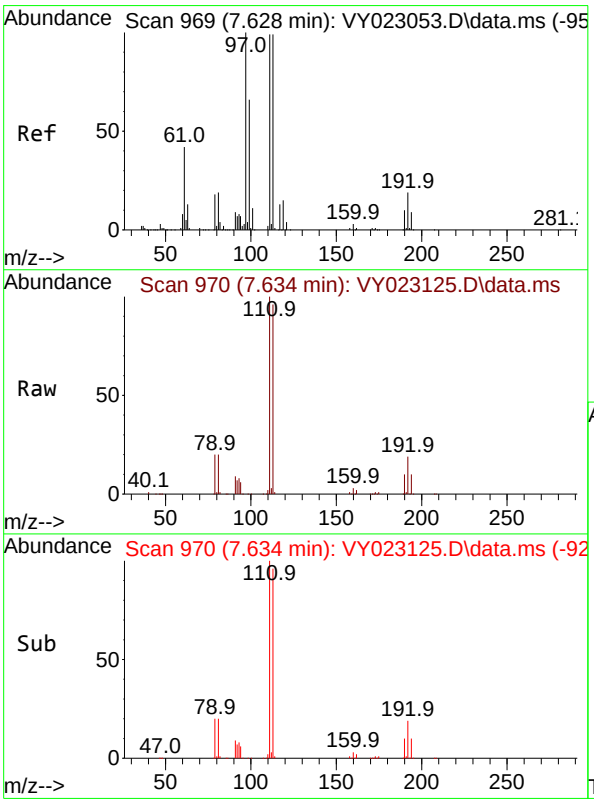
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023125.D
Acq: 15 Aug 2025 15:11

Instrument :
MSVOA_Y
ClientSampleId :
TG-S03

Tgt Ion:114 Resp: 1043284

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.4
88	15.4	0.0	30.0

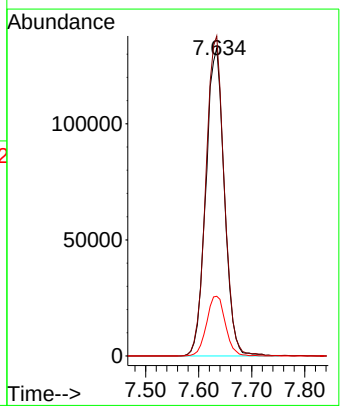


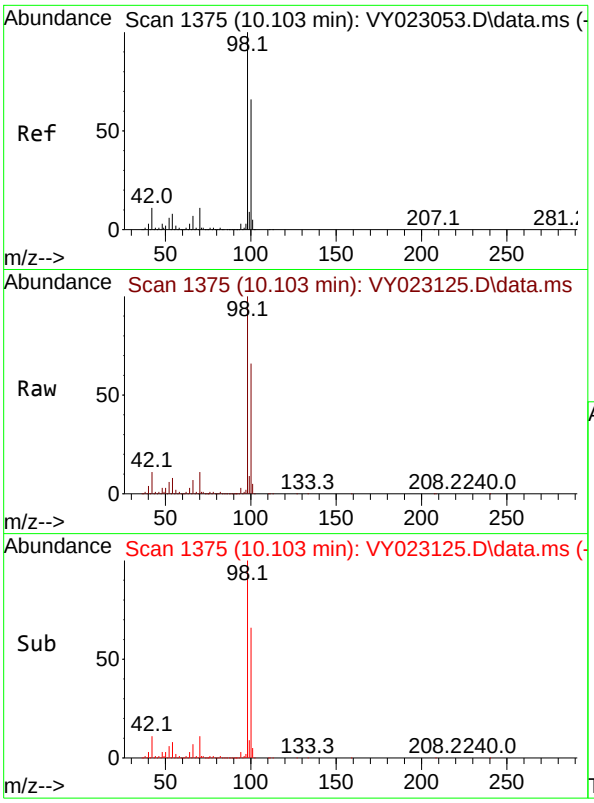


#35
Dibromofluoromethane
Concen: 51.427 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023125.D
Acq: 15 Aug 2025 15:11

Tgt Ion:113 Resp: 321045

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.1	121.7
192	19.7	16.2	24.4



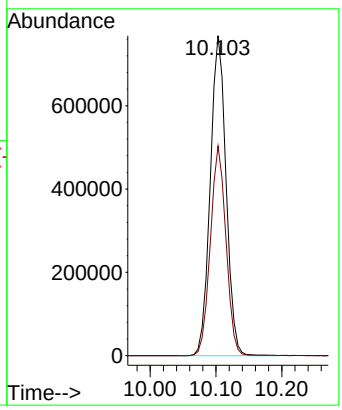


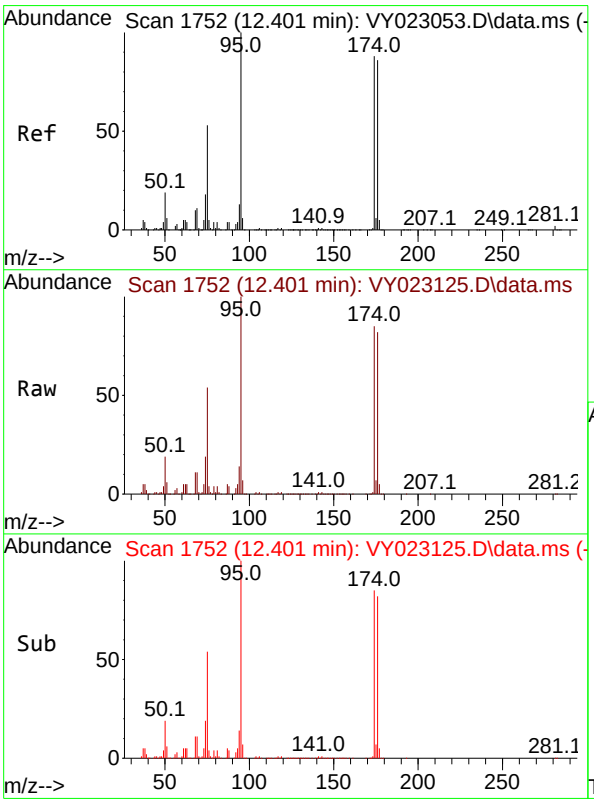
#50
Toluene-d8
Concen: 52.653 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023125.D
Acq: 15 Aug 2025 15:11

Instrument :
MSVOA_Y
ClientSampleId :
TG-S03

Tgt Ion: 98 Resp: 1284070

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.3	78.5

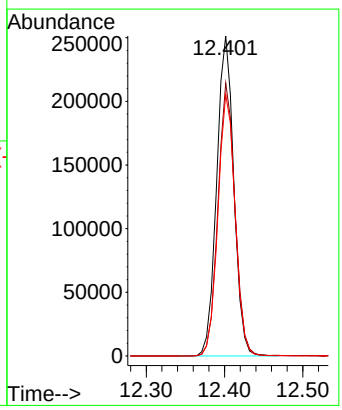


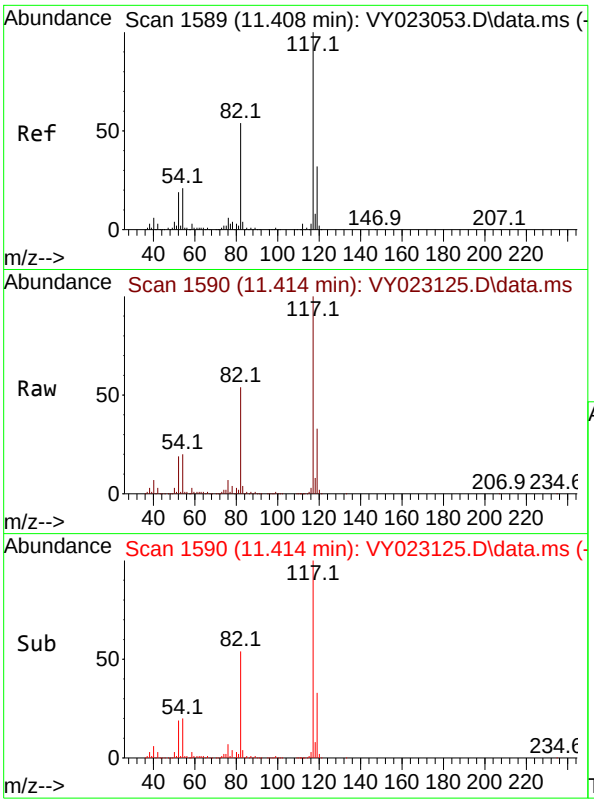


#62
4-Bromofluorobenzene
Concen: 48.779 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023125.D
Acq: 15 Aug 2025 15:11

Tgt Ion: 95 Resp: 382572

Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	171.6
176	82.1	0.0	167.6



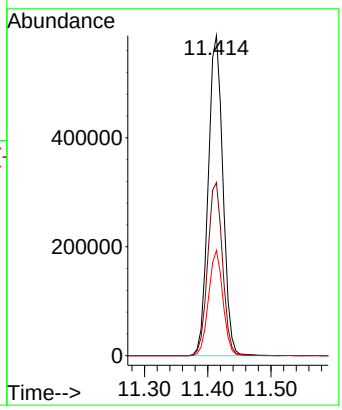


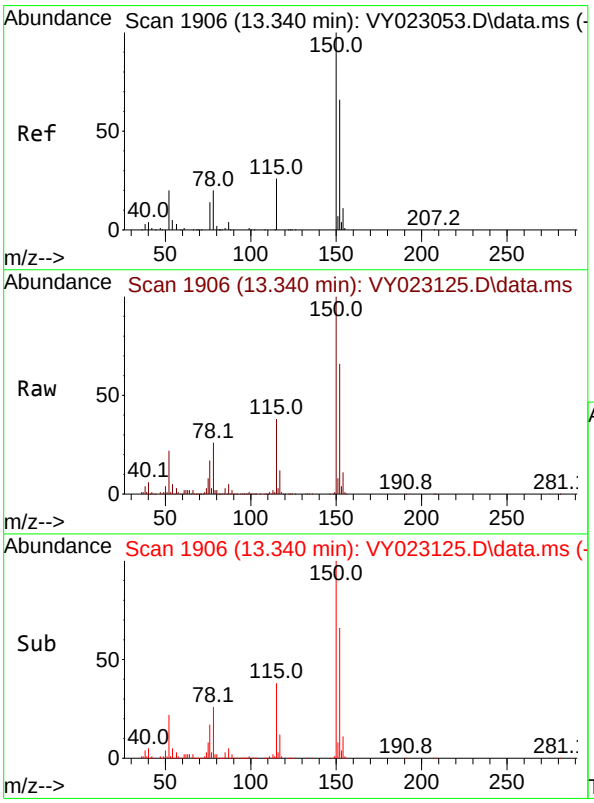
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023125.D
Acq: 15 Aug 2025 15:11

Instrument :
MSVOA_Y
ClientSampleId :
TG-S03

Tgt Ion:117 Resp: 947118

Ion	Ratio	Lower	Upper
117	100		
82	54.1	43.4	65.0
119	32.9	25.6	38.4

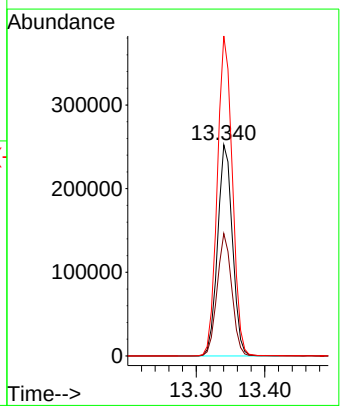




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY023125.D
Acq: 15 Aug 2025 15:11

Tgt Ion:152 Resp: 378902

Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.2	84.6
150	153.9	0.0	348.0



Sample Results: **VY023125.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023125.D
Acq On : 15 Aug 2025 15:11
Operator : SY/MD
Sample : Q2832-05
Misc : 3.86g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S03

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\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023125.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.604	463	473	488	rBV3	25240	78366	2.33%	0.473%
2	7.634	960	970	975	rBV	447364	1071819	31.93%	6.463%
3	7.707	975	982	996	rVB	708391	1628554	48.51%	9.820%
4	8.061	1028	1040	1051	rBV	389482	890876	26.54%	5.372%
5	8.609	1121	1130	1142	rBV	1230537	2383397	70.99%	14.372%
6	10.103	1366	1375	1386	rBV	1995312	3357204	100.00%	20.243%
7	11.414	1582	1590	1603	rBV	1776769	2900537	86.40%	17.490%
8	12.401	1743	1752	1764	rBV	1297476	1989505	59.26%	11.996%
9	13.340	1900	1906	1916	rBV	1503146	2283886	68.03%	13.772%

Sum of corrected areas: 16584144

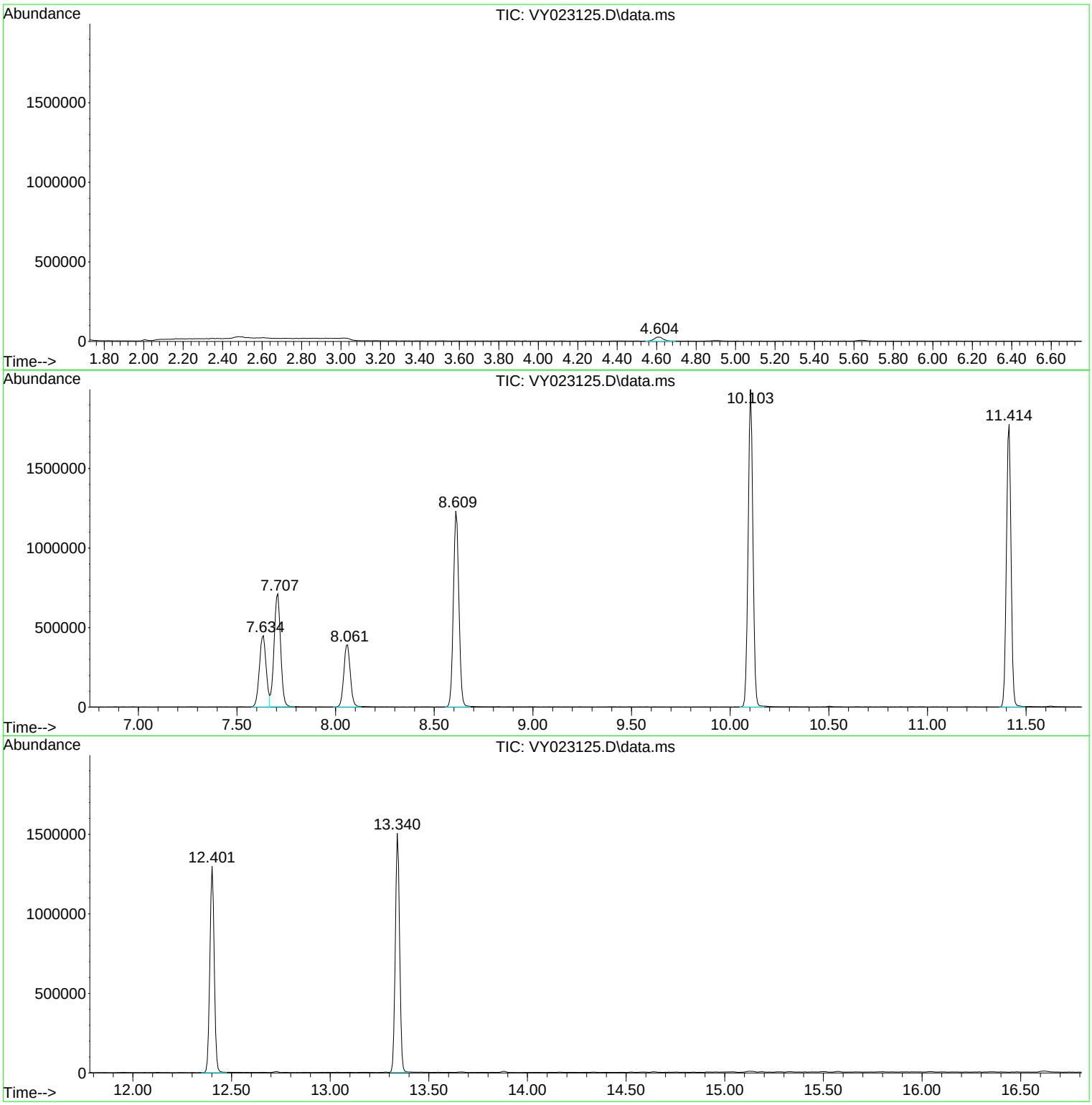
Sample Results: **VY023125.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023125.D
Acq On : 15 Aug 2025 15:11
Operator : SY/MD
Sample : Q2832-05
Misc : 3.86g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S03

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY023125.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023125.D
Acq On : 15 Aug 2025 15:11
Operator : SY/MD
Sample : Q2832-05
Misc : 3.86g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S03

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY081525\
Data File : VY023125.D
Acq On : 15 Aug 2025 15:11
Operator : SY/MD
Sample : Q2832-05
Misc : 3.86g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S03

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY081525\
Data File : VY023126.D
Acq On : 15 Aug 2025 15:34
Operator : SY/MD
Sample : Q2832-07
Misc : 4.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S04

Quant Time: Aug 18 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	567197	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1071652	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	957867	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	386816	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	319898	59.177	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.360%			
35) Dibromofluoromethane	7.634	113	338713	52.821	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.640%			
50) Toluene-d8	10.103	98	1291975	51.574	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.140%			
62) 4-Bromofluorobenzene	12.401	95	384540	47.732	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.460%			

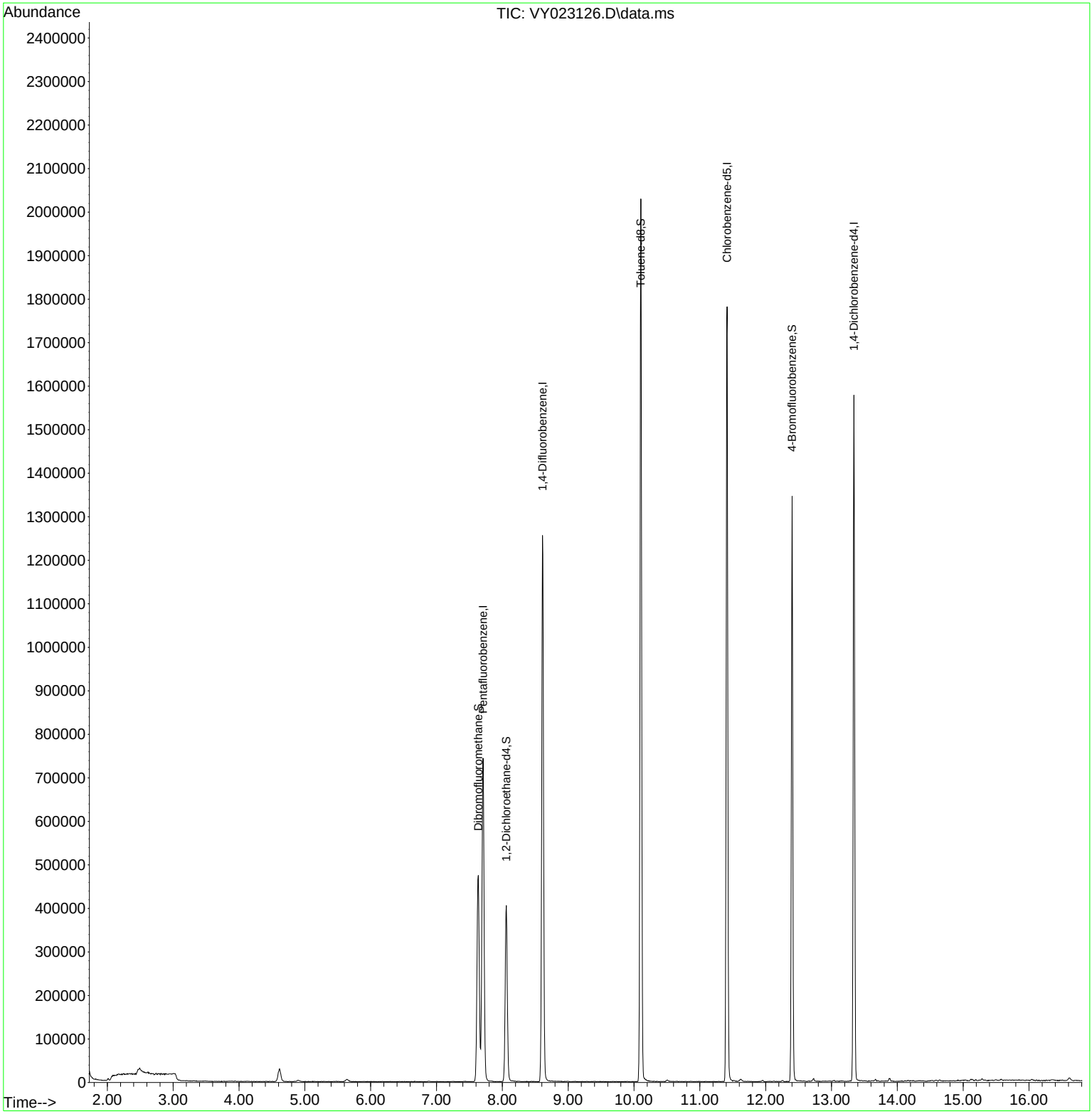
Target Compounds Qvalue

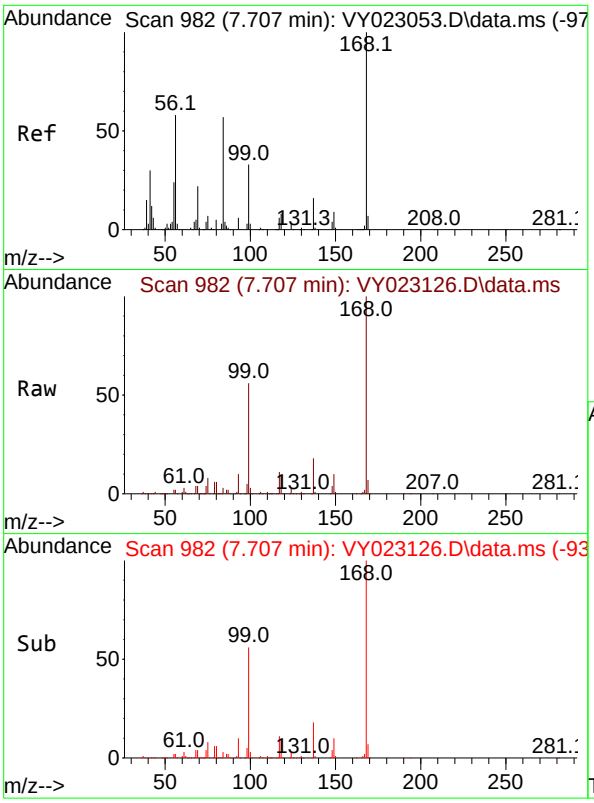
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023126.D
Acq On : 15 Aug 2025 15:34
Operator : SY/MD
Sample : Q2832-07
Misc : 4.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S04

Quant Time: Aug 18 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



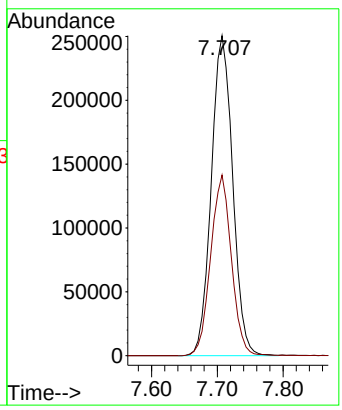


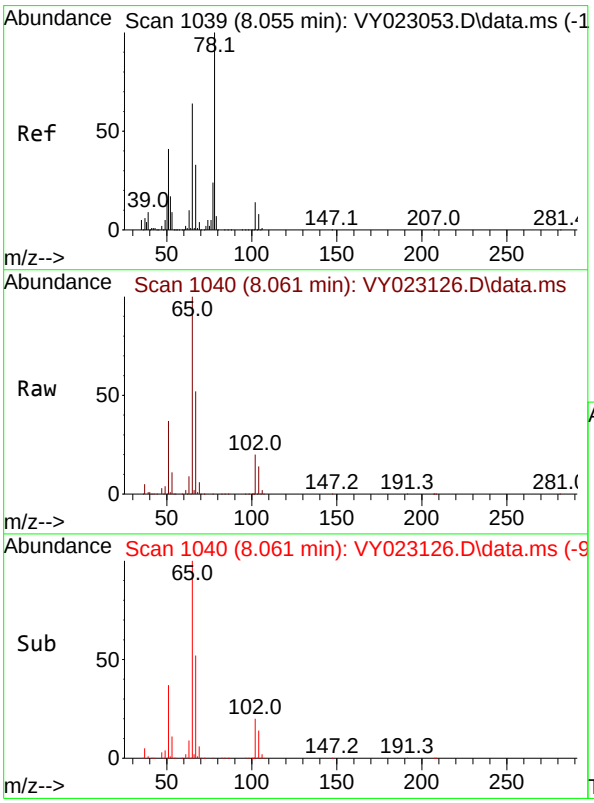
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023126.D
Acq: 15 Aug 2025 15:34

Instrument :
MSVOA_Y
ClientSampleId :
TG-S04

Tgt Ion:168 Resp: 567197

Ion	Ratio	Lower	Upper
168	100		
99	56.4	42.8	64.2

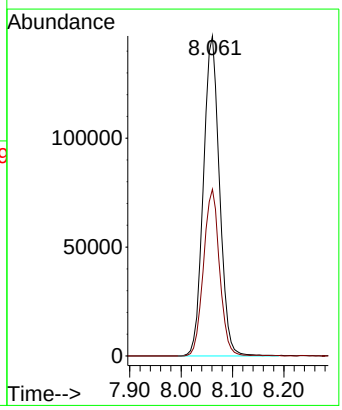


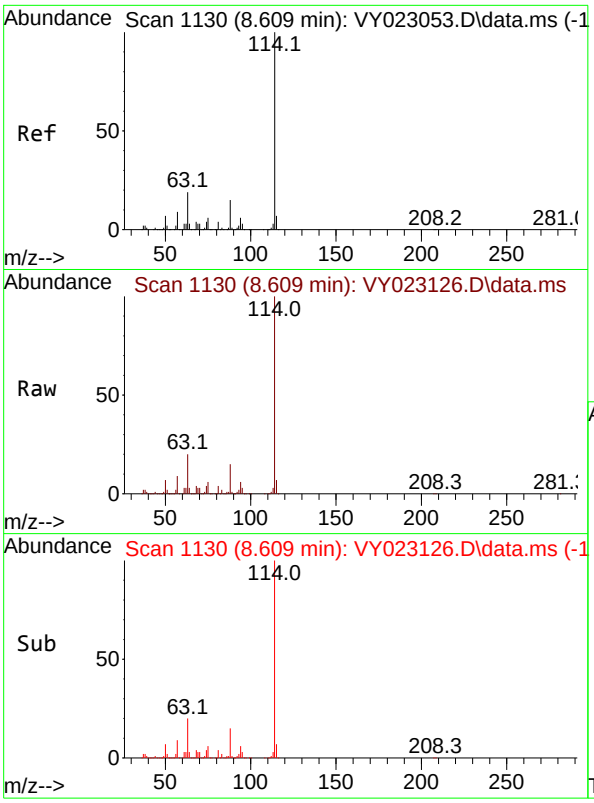


#33
1,2-Dichloroethane-d4
Concen: 59.177 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023126.D
Acq: 15 Aug 2025 15:34

Tgt Ion: 65 Resp: 319898

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	106.8



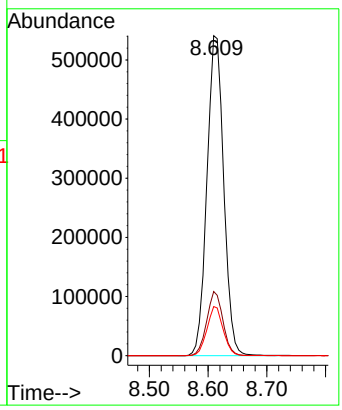


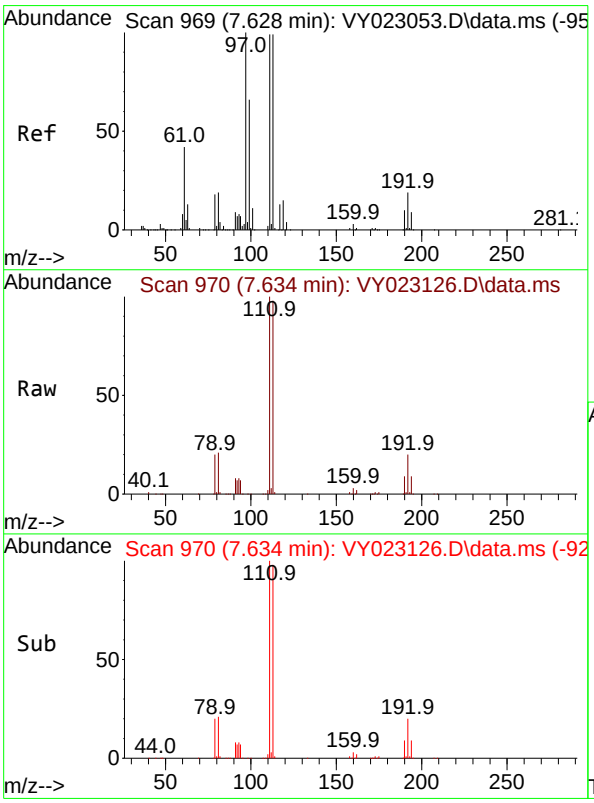
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023126.D
Acq: 15 Aug 2025 15:34

Instrument :
MSVOA_Y
ClientSampleId :
TG-S04

Tgt Ion:114 Resp: 1071652

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	38.4
88	15.4	0.0	30.0

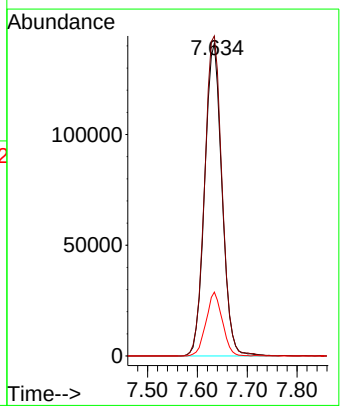


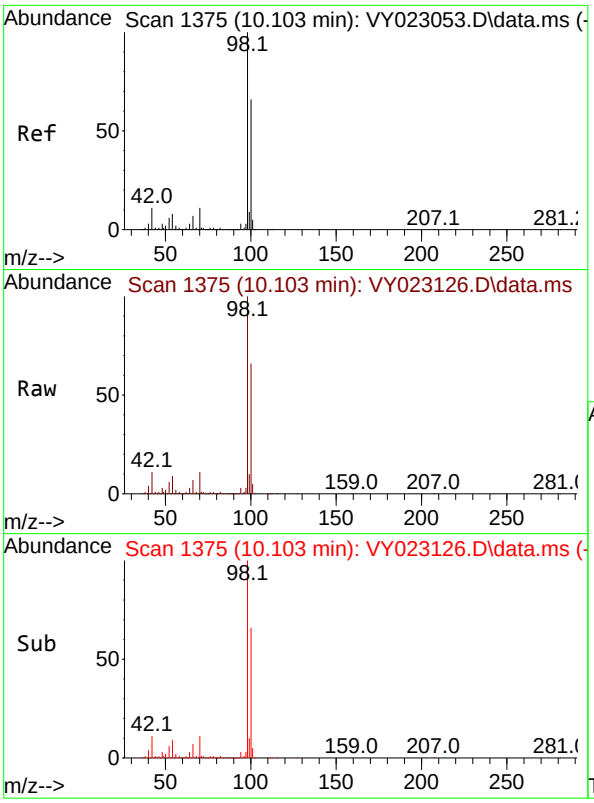


#35
Dibromofluoromethane
Concen: 52.821 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023126.D
Acq: 15 Aug 2025 15:34

Tgt Ion:113 Resp: 338713

Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.1	121.7
192	19.3	16.2	24.4



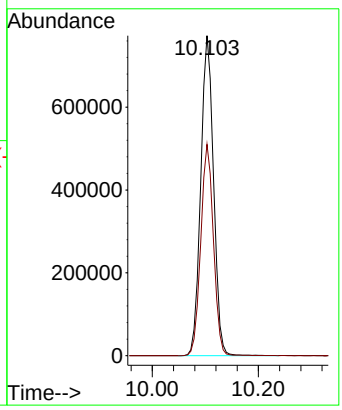


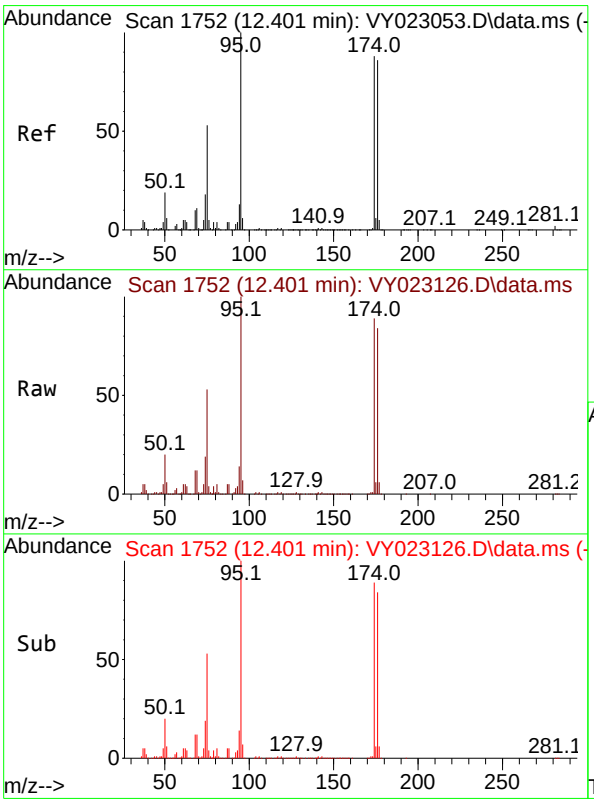
#50
Toluene-d8
Concen: 51.574 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023126.D
Acq: 15 Aug 2025 15:34

Instrument :
MSVOA_Y
ClientSampleId :
TG-S04

Tgt Ion: 98 Resp: 1291975

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.3	78.5

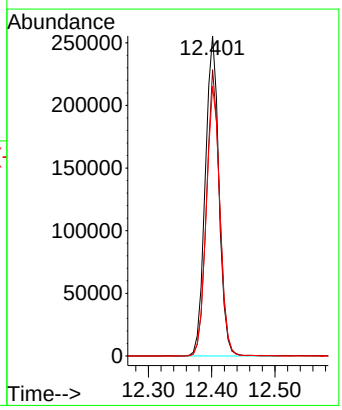


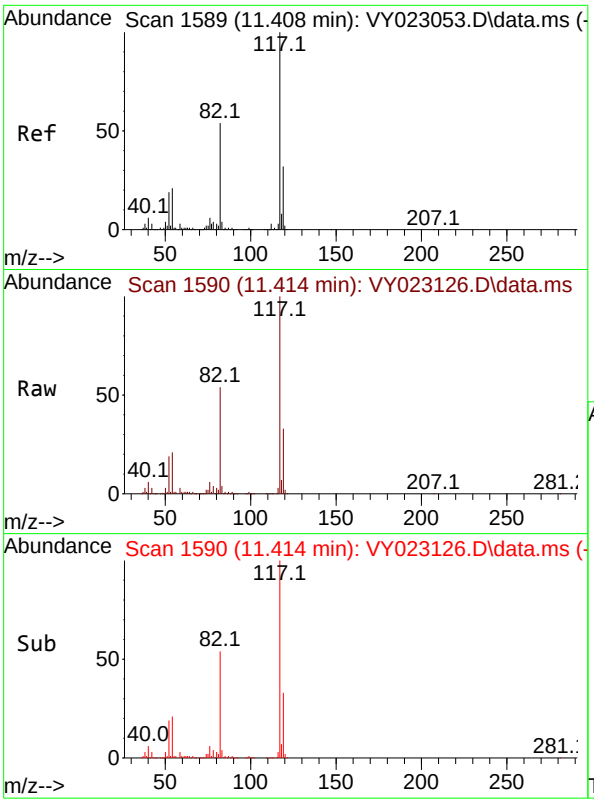


#62
4-Bromofluorobenzene
Concen: 47.732 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023126.D
Acq: 15 Aug 2025 15:34

Tgt Ion: 95 Resp: 384540

Ion	Ratio	Lower	Upper
95	100		
174	85.9	0.0	171.6
176	83.9	0.0	167.6



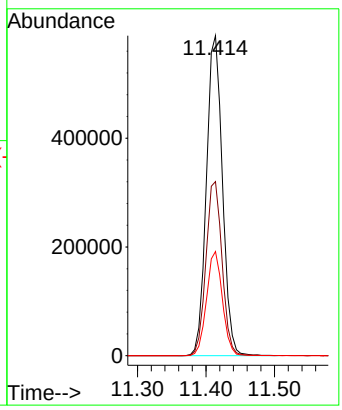


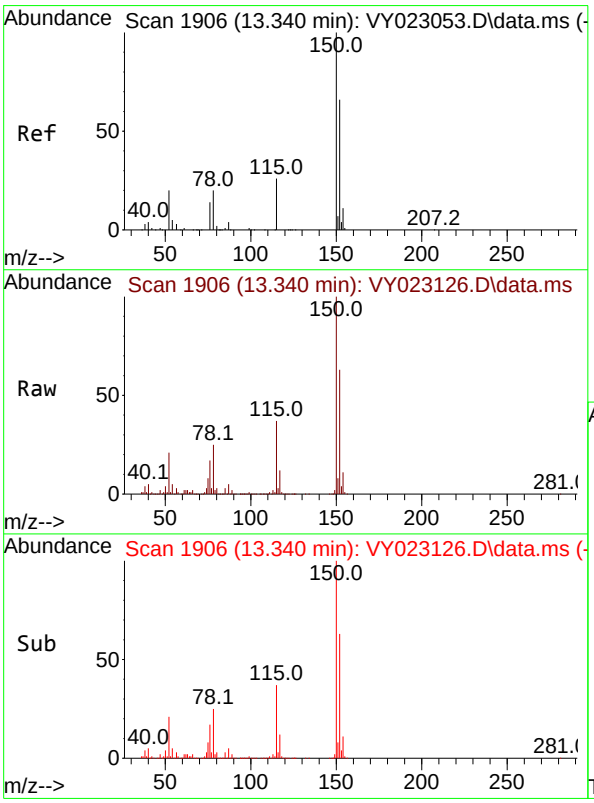
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023126.D
Acq: 15 Aug 2025 15:34

Instrument :
MSVOA_Y
ClientSampleId :
TG-S04

Tgt Ion:117 Resp: 957867

Ion	Ratio	Lower	Upper
117	100		
82	54.4	43.4	65.0
119	32.6	25.6	38.4

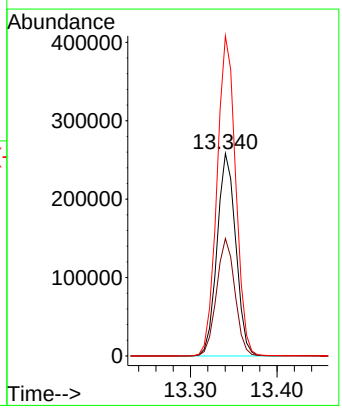




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023126.D
Acq: 15 Aug 2025 15:34

Tgt Ion:152 Resp: 386816

Ion	Ratio	Lower	Upper
152	100		
115	57.2	28.2	84.6
150	158.4	0.0	348.0



LSC Area Percent Report

Sample Results: **VY023126.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023126.D
Acq On : 15 Aug 2025 15:34
Operator : SY/MD
Sample : Q2832-07
Misc : 4.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S04

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\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023126.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	4.616	464	475	489	rVB3	29083	87130	2.56%	0.513%
2	7.634	957	970	976	rBV	473828	1151569	33.82%	6.783%
3	7.707	976	982	998	rVB	742636	1657643	48.69%	9.764%
4	8.061	1030	1040	1052	rBV	404647	896440	26.33%	5.280%
5	8.609	1121	1130	1147	rBV	1255232	2460143	72.26%	14.491%
6	10.103	1366	1375	1387	rBV	2028627	3404673	100.00%	20.055%
7	11.414	1582	1590	1604	rBV	1780375	2936281	86.24%	17.296%
8	12.401	1743	1752	1760	rBV	1345266	2024540	59.46%	11.926%
9	13.340	1898	1906	1917	rBV	1576373	2358088	69.26%	13.890%

Sum of corrected areas: 16976507

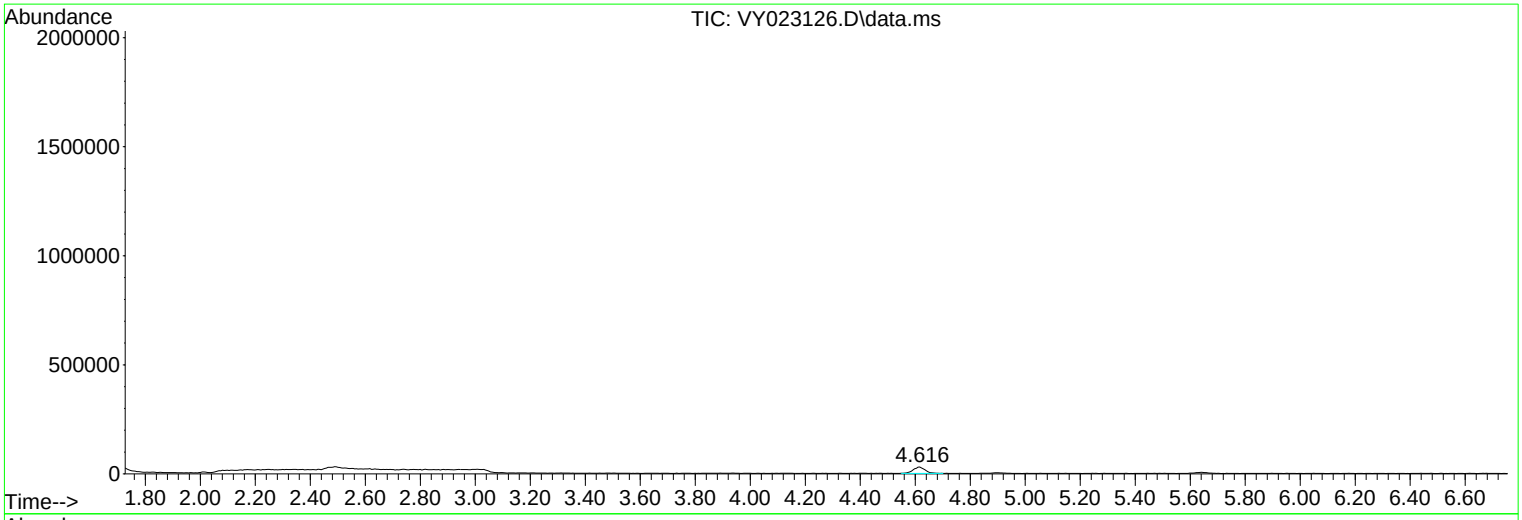
Sample Results: **VY023126.D**

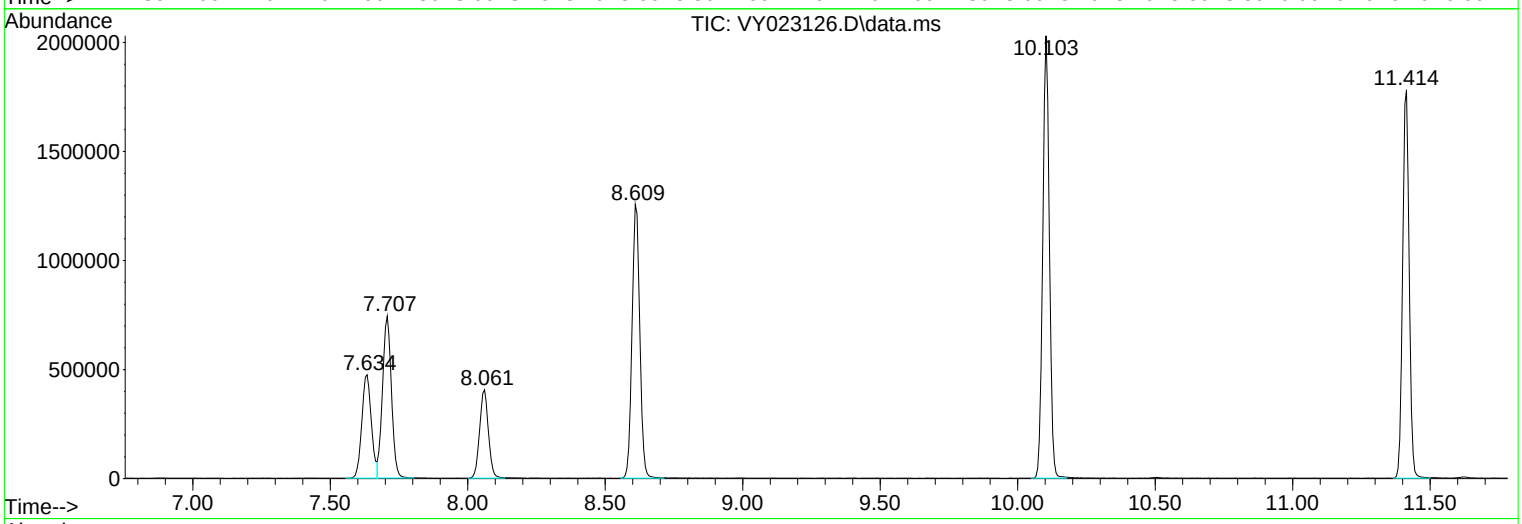
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023126.D
Acq On : 15 Aug 2025 15:34
Operator : SY/MD
Sample : Q2832-07
Misc : 4.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

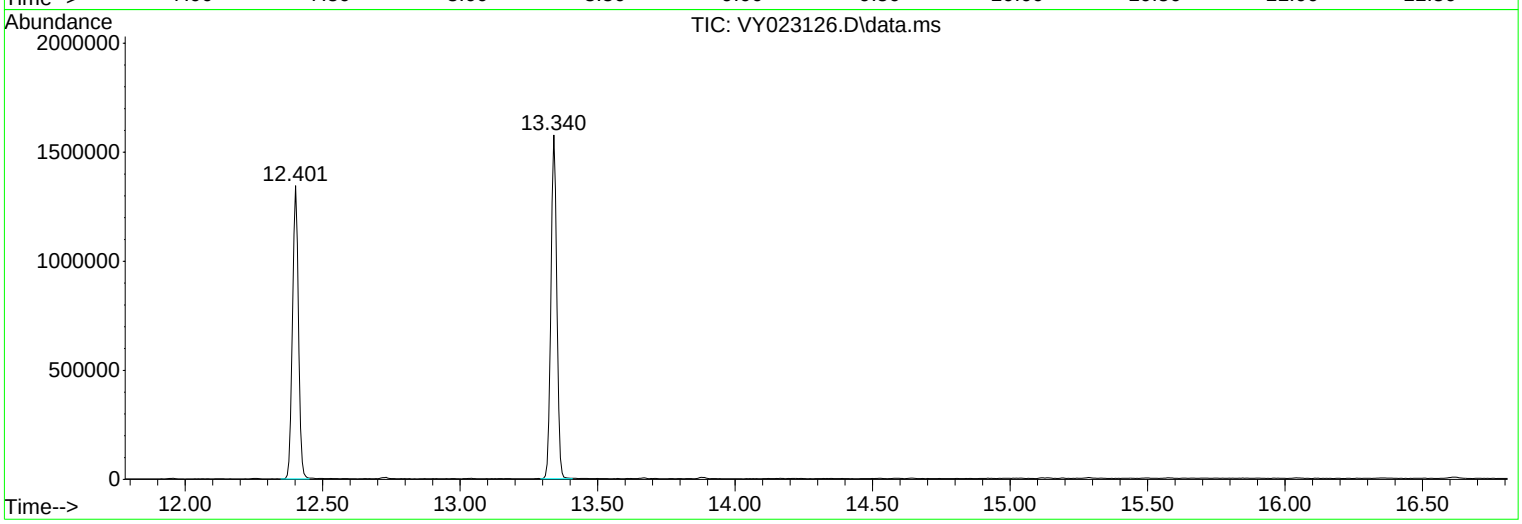
Instrument :
MSVOA_Y
ClientSampleId :
TG-S04

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY023126.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023126.D
Acq On : 15 Aug 2025 15:34
Operator : SY/MD
Sample : Q2832-07
Misc : 4.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S04

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY081525\
Data File : VY023126.D
Acq On : 15 Aug 2025 15:34
Operator : SY/MD
Sample : Q2832-07
Misc : 4.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S04

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY081525\
Data File : VY023127.D
Acq On : 15 Aug 2025 15:58
Operator : SY/MD
Sample : Q2832-09
Misc : 3.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S05

Quant Time: Aug 18 02:30:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

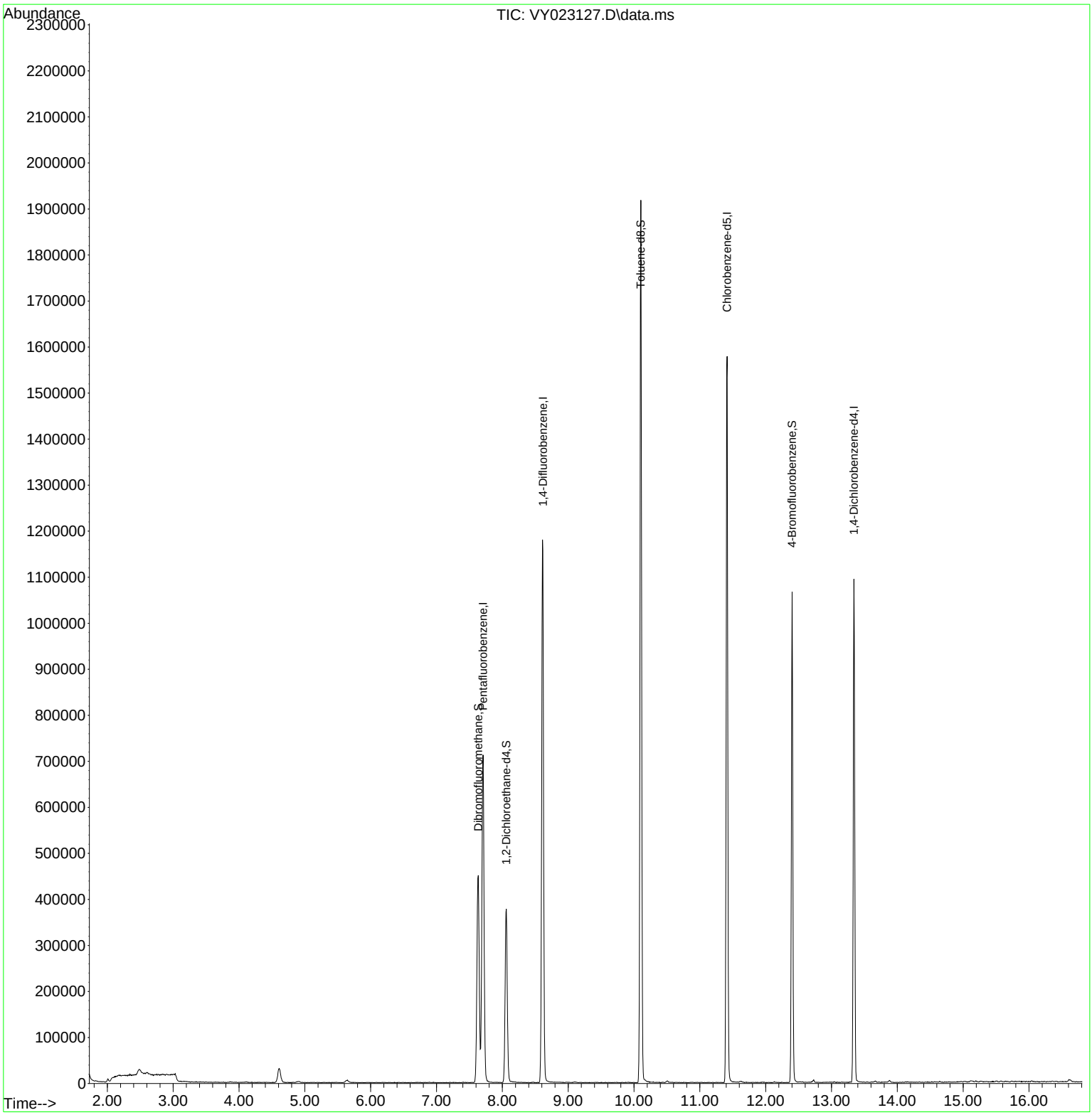
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	551145	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1030444	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	844477	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	274172	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	302583	57.604	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 115.200%			
35) Dibromofluoromethane	7.634	113	325447	52.782	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.560%			
50) Toluene-d8	10.103	98	1228191	50.989	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.980%			
62) 4-Bromofluorobenzene	12.401	95	308762	39.858	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 79.720%			
Target Compounds						Qvalue

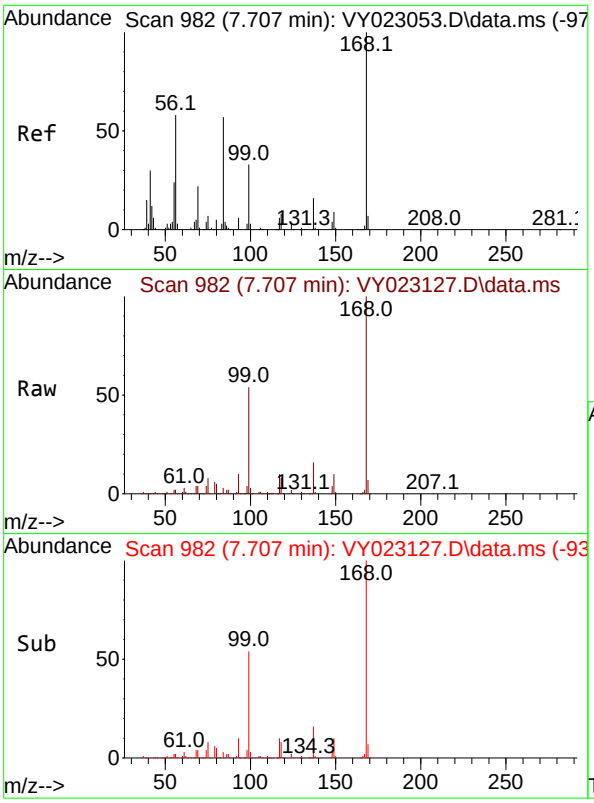
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023127.D
Acq On : 15 Aug 2025 15:58
Operator : SY/MD
Sample : Q2832-09
Misc : 3.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S05

Quant Time: Aug 18 02:30:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



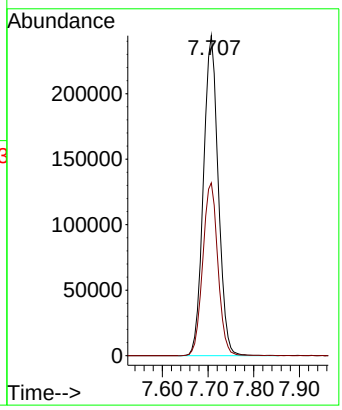


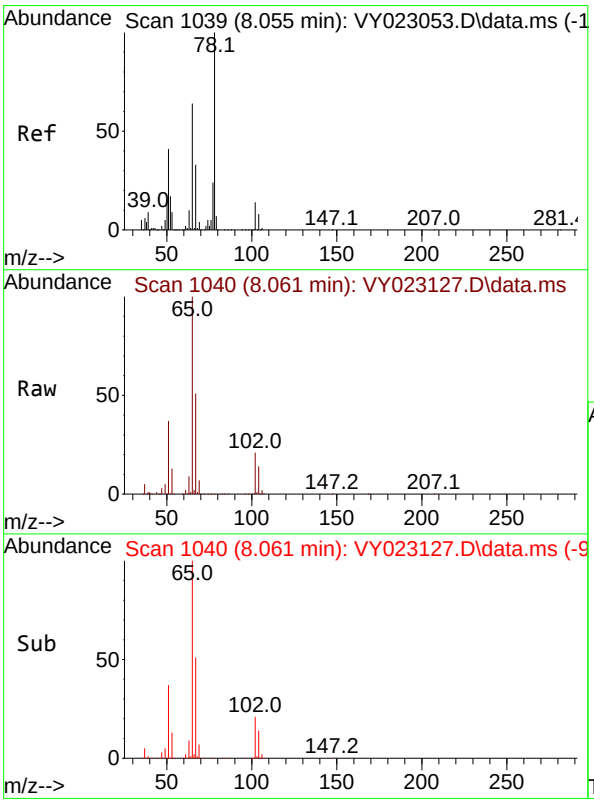
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023127.D
Acq: 15 Aug 2025 15:58

Instrument :
MSVOA_Y
ClientSampleId :
TG-S05

Tgt Ion:168 Resp: 551145

Ion	Ratio	Lower	Upper
168	100		
99	54.0	42.8	64.2

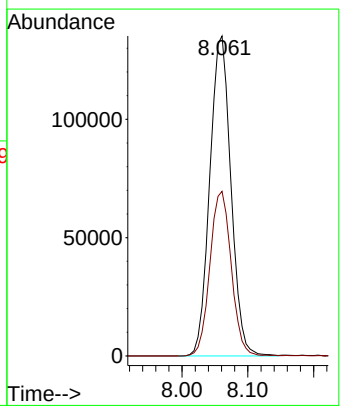


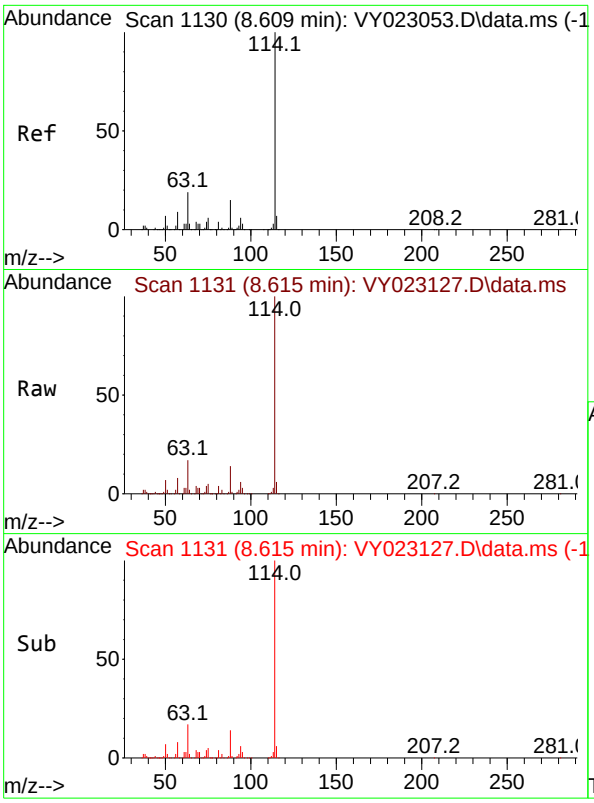


#33
1,2-Dichloroethane-d4
Concen: 57.604 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023127.D
Acq: 15 Aug 2025 15:58

Tgt Ion: 65 Resp: 302583

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	106.8



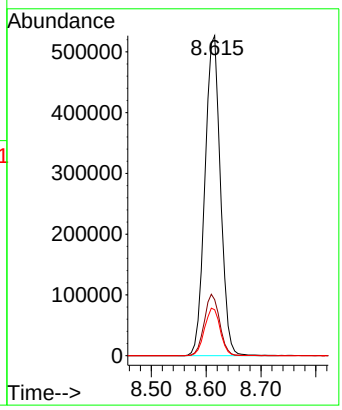


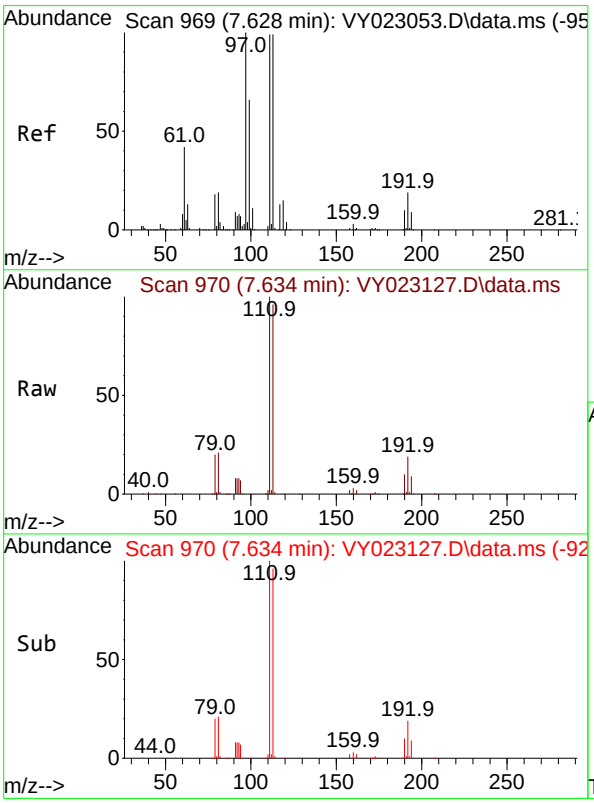
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023127.D
Acq: 15 Aug 2025 15:58

Instrument :
MSVOA_Y
ClientSampleId :
TG-S05

Tgt Ion:114 Resp: 1030444

Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	38.4
88	14.3	0.0	30.0

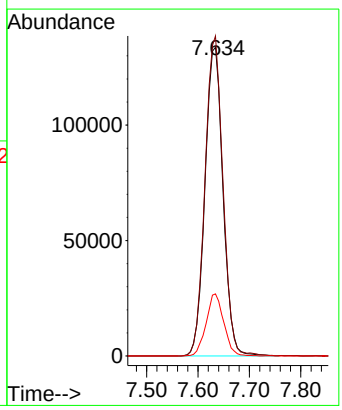




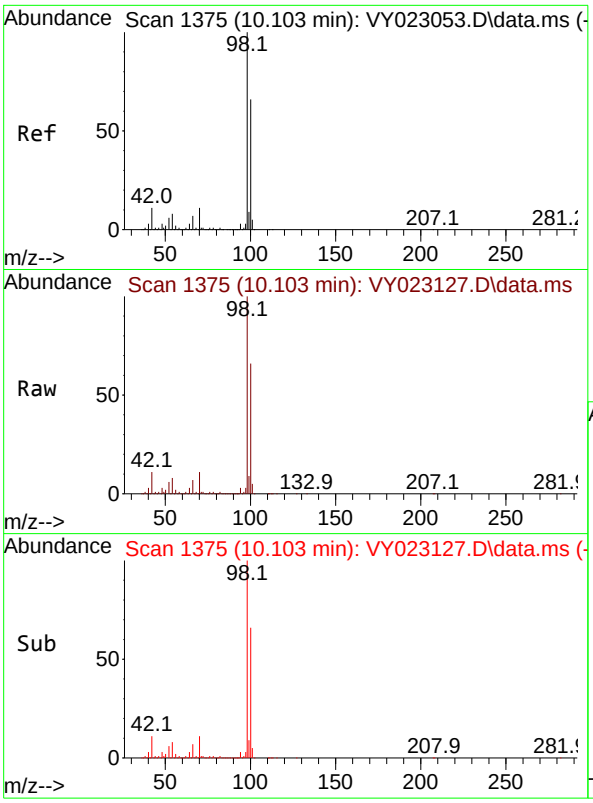
#35
Dibromofluoromethane
Concen: 52.782 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023127.D
Acq: 15 Aug 2025 15:58

Tgt Ion:113 Resp: 325447

Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.1	121.7
192	19.7	16.2	24.4



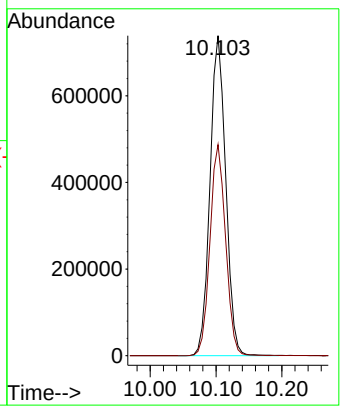
Instrument :
MSVOA_Y
ClientSampleId :
TG-S05

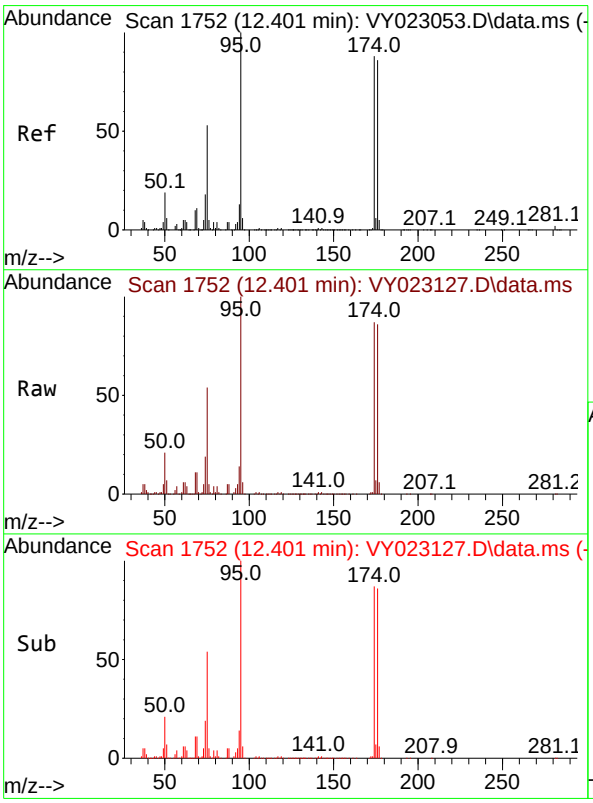


#50
Toluene-d8
Concen: 50.989 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023127.D
Acq: 15 Aug 2025 15:58

Tgt Ion: 98 Resp: 1228191

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.3	78.5

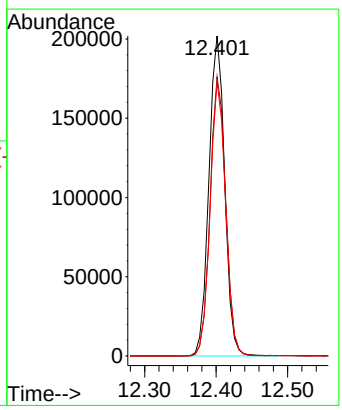


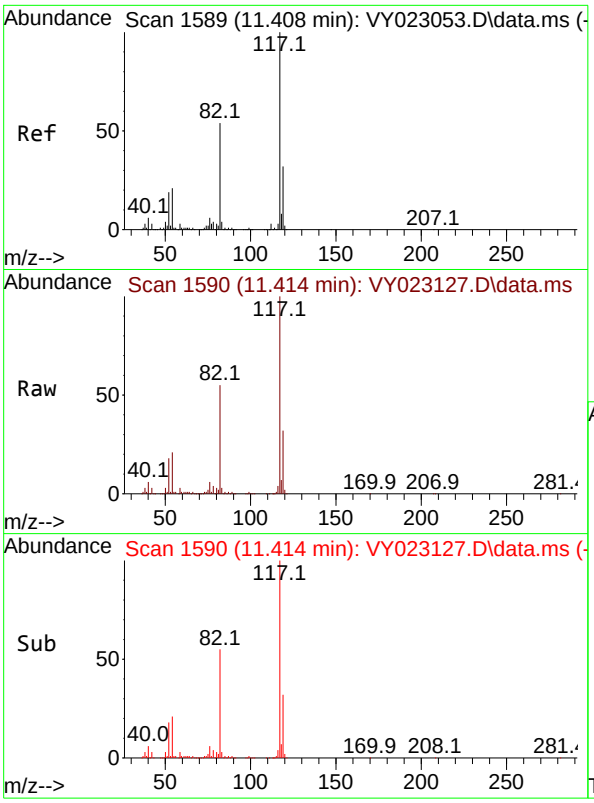


#62
4-Bromofluorobenzene
Concen: 39.858 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023127.D
Acq: 15 Aug 2025 15:58

Tgt Ion: 95 Resp: 308762

Ion	Ratio	Lower	Upper
95	100		
174	86.6	0.0	171.6
176	84.3	0.0	167.6



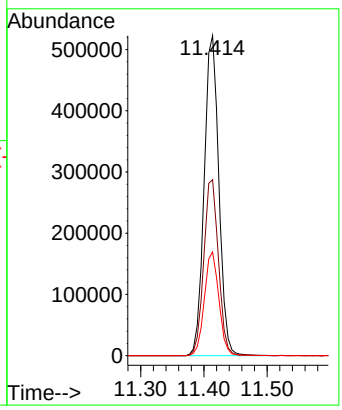


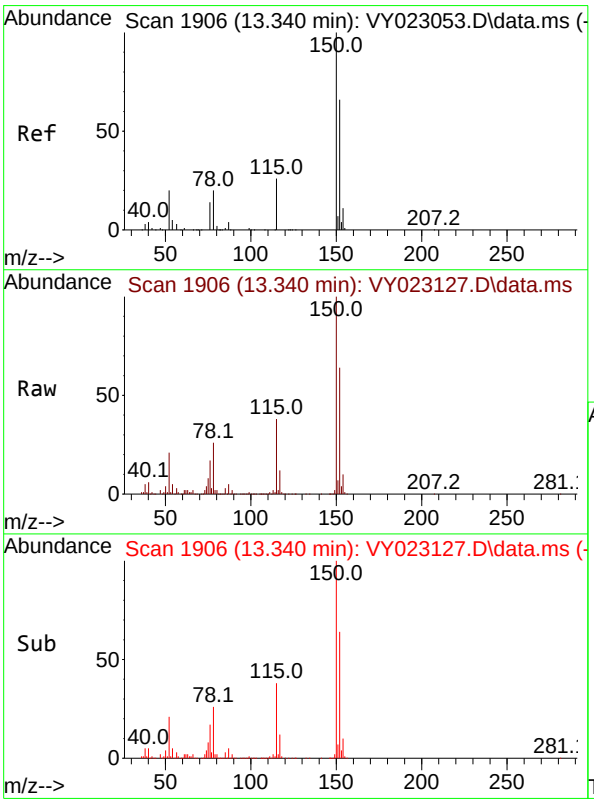
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023127.D
Acq: 15 Aug 2025 15:58

Instrument :
MSVOA_Y
ClientSampleId :
TG-S05

Tgt Ion:117 Resp: 844477

Ion	Ratio	Lower	Upper
117	100		
82	55.0	43.4	65.0
119	32.5	25.6	38.4

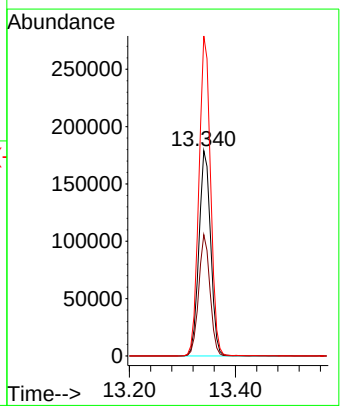




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY023127.D
Acq: 15 Aug 2025 15:58

Tgt Ion:152 Resp: 274172

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.2	84.6
150	154.8	0.0	348.0



LSC Area Percent Report

Sample Results: **VY023127.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023127.D
Acq On : 15 Aug 2025 15:58
Operator : SY/MD
Sample : Q2832-09
Misc : 3.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S05

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\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023127.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	2.482	119	125	136	rBV6	10162	34845	1.08%	0.230%
2	4.610	462	474	485	rBV3	30655	98871	3.05%	0.651%
3	7.634	958	970	975	rBV	450205	1082046	33.39%	7.129%
4	7.707	975	982	993	rVB	709444	1622389	50.07%	10.688%
5	8.061	1028	1040	1051	rBV	376988	855123	26.39%	5.634%
6	8.609	1121	1130	1149	rBV	1179841	2356006	72.71%	15.522%
7	10.103	1365	1375	1392	rBV	1917538	3240369	100.00%	21.348%
8	11.414	1582	1590	1602	rBV	1577644	2589393	79.91%	17.059%
9	12.401	1744	1752	1766	rBV	1065659	1631462	50.35%	10.748%
10	13.340	1899	1906	1922	rBV	1093166	1668346	51.49%	10.991%

Sum of corrected areas: 15178850

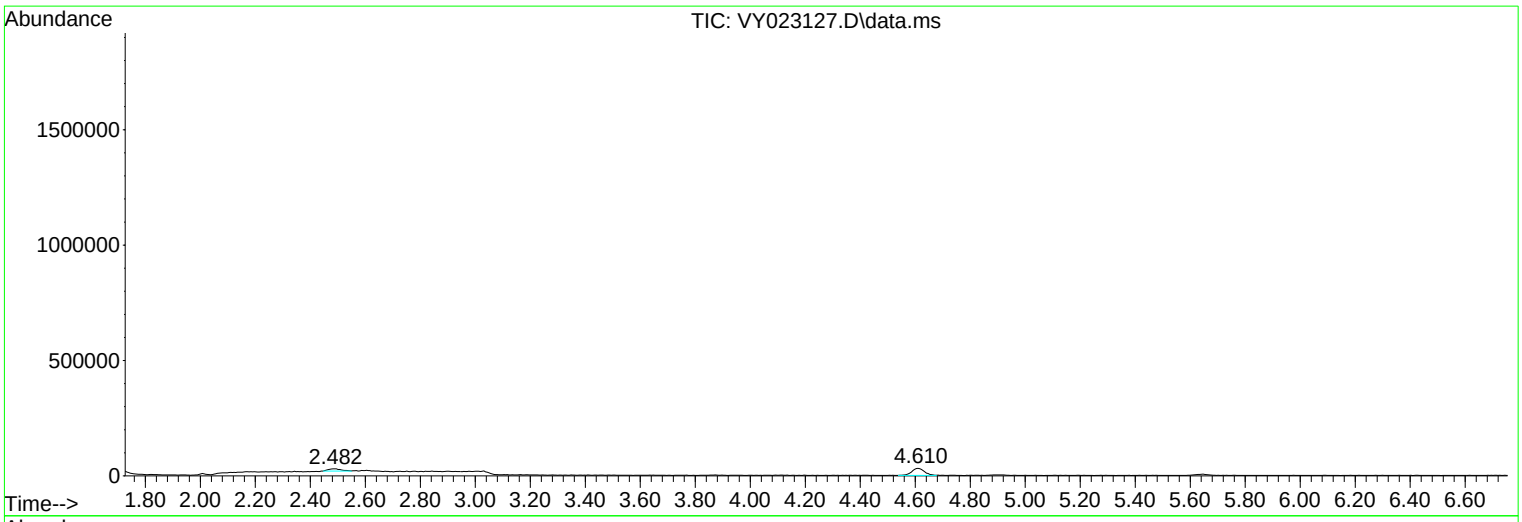
Sample Results: **VY023127.D**

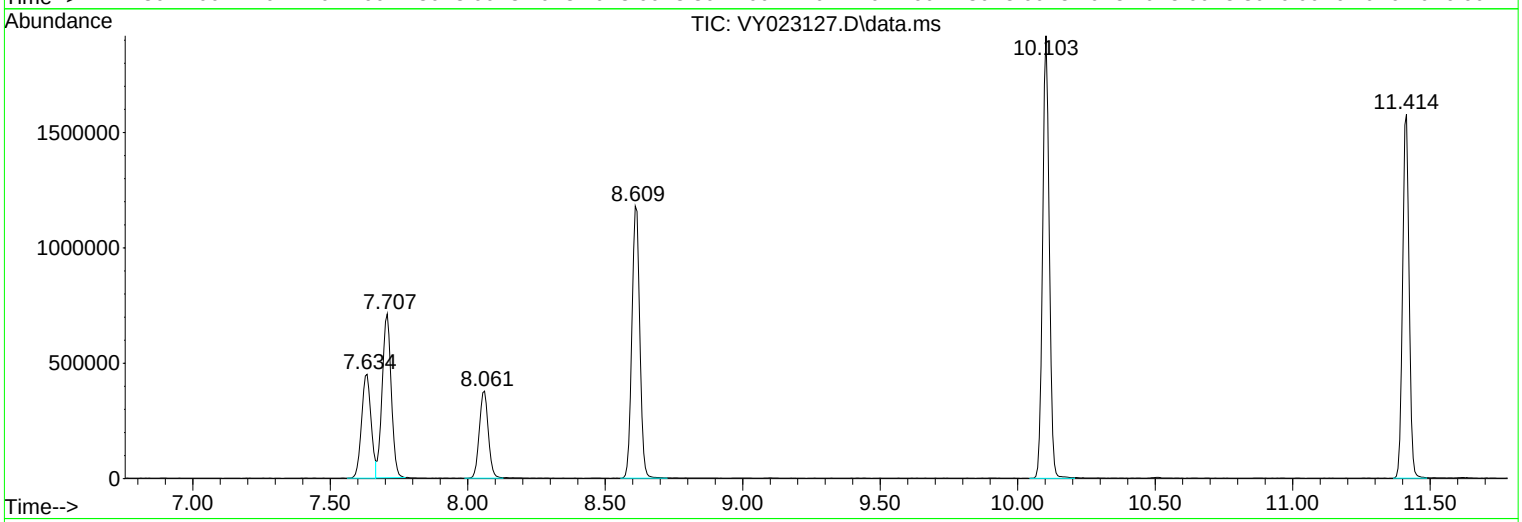
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023127.D
Acq On : 15 Aug 2025 15:58
Operator : SY/MD
Sample : Q2832-09
Misc : 3.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

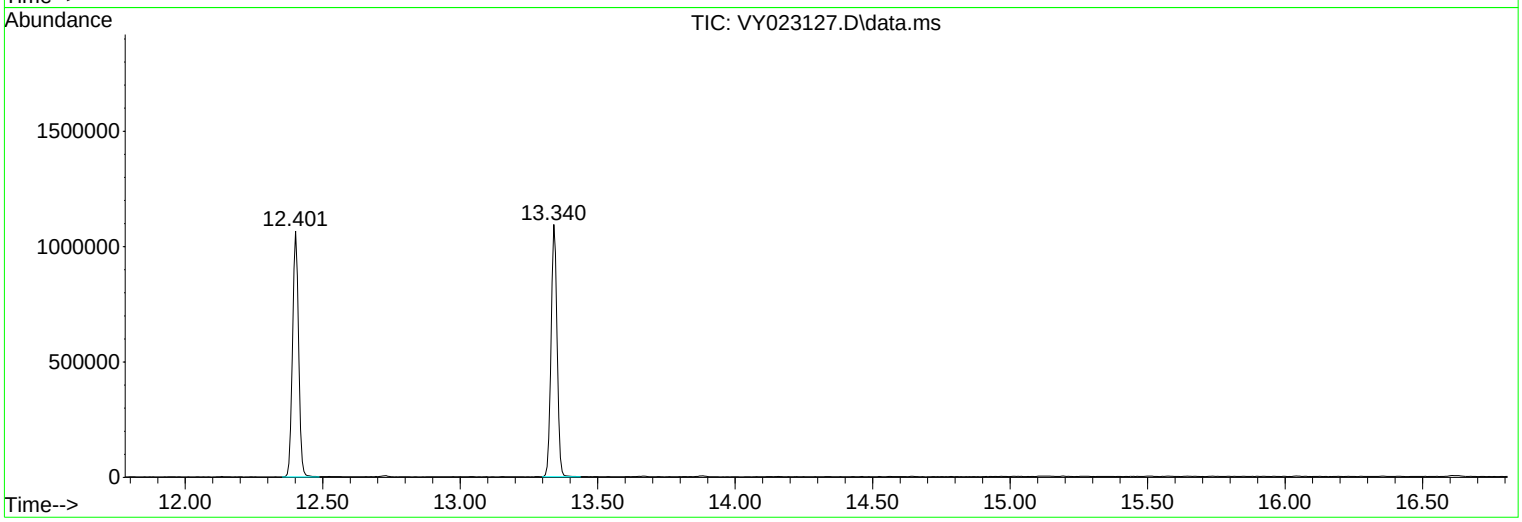
Instrument :
MSVOA_Y
ClientSampleId :
TG-S05

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY023127.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023127.D
Acq On : 15 Aug 2025 15:58
Operator : SY/MD
Sample : Q2832-09
Misc : 3.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S05

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY081525\
Data File : VY023127.D
Acq On : 15 Aug 2025 15:58
Operator : SY/MD
Sample : Q2832-09
Misc : 3.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TG-S05

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY081525\
Data File : VY023112.D
Acq On : 15 Aug 2025 09:08
Operator : SY/MD
Sample : VY0815SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Quant Time: Aug 18 02:23:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	550500	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1049087	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	953139	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	370974	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	313986	59.845	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.700%			
35) Dibromofluoromethane	7.634	113	330708	52.682	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.360%			
50) Toluene-d8	10.103	98	1285132	52.405	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.800%			
62) 4-Bromofluorobenzene	12.401	95	374958	47.544	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.080%			

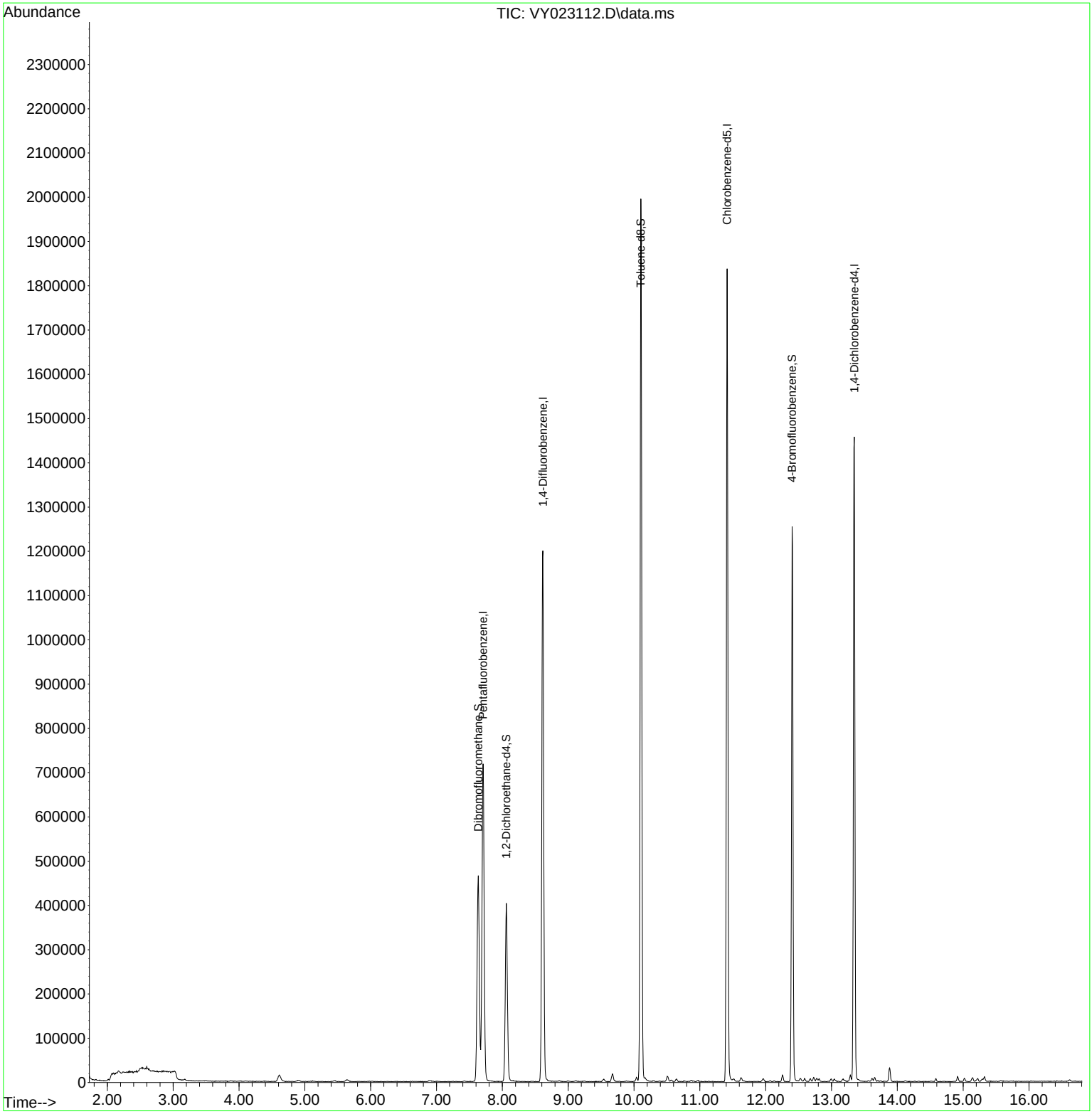
Target Compounds Qvalue

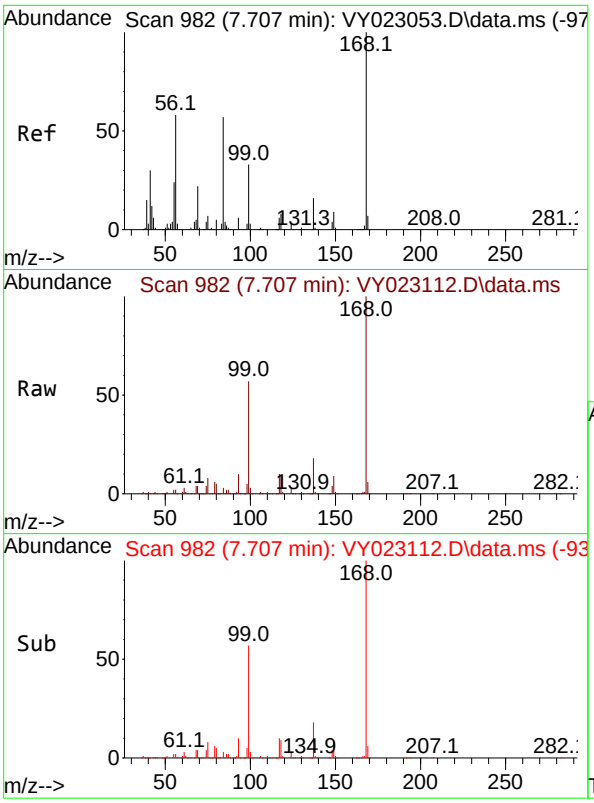
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023112.D
Acq On : 15 Aug 2025 09:08
Operator : SY/MD
Sample : VY0815SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Quant Time: Aug 18 02:23:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



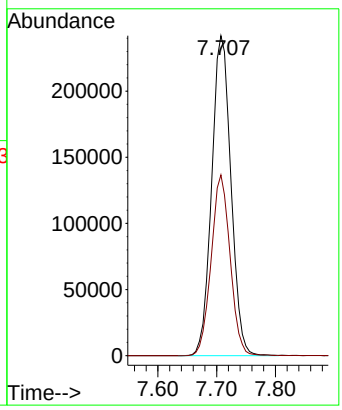


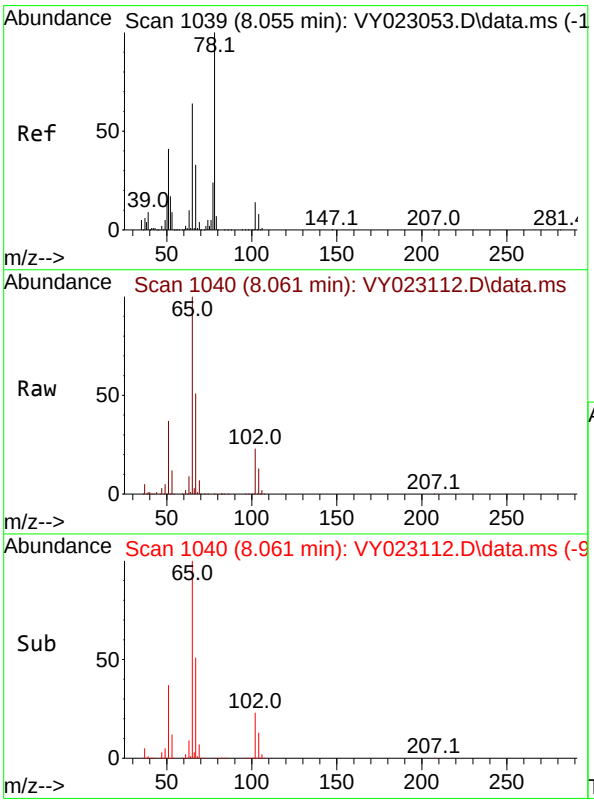
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Tgt Ion:168 Resp: 550500

Ion	Ratio	Lower	Upper
168	100		
99	56.5	42.8	64.2

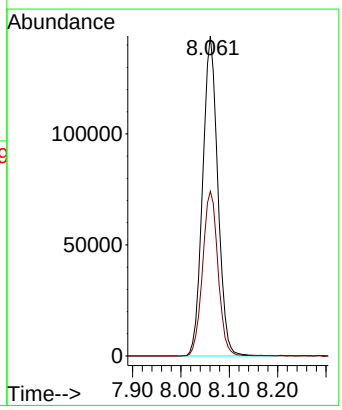


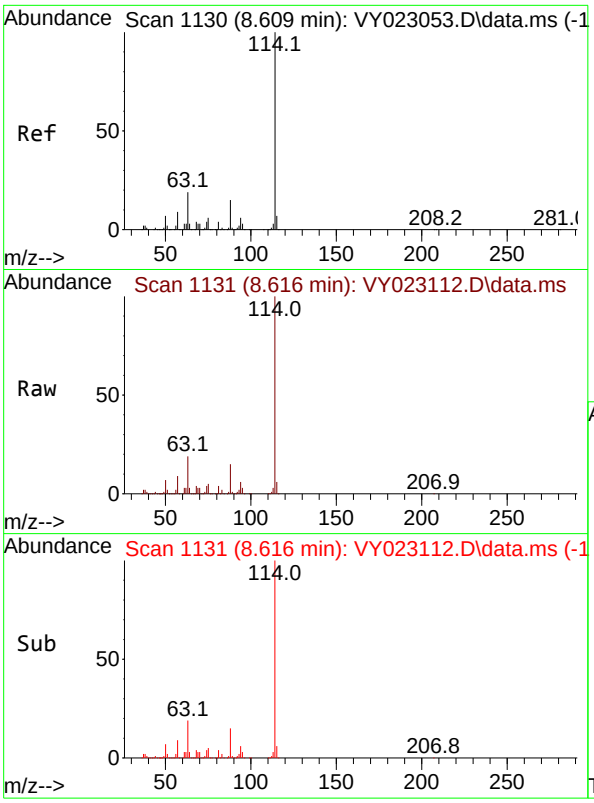


#33
1,2-Dichloroethane-d4
Concen: 59.845 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Tgt Ion: 65 Resp: 313986

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.8



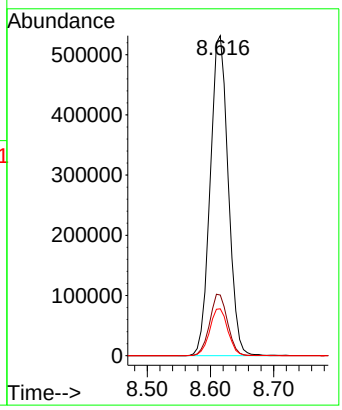


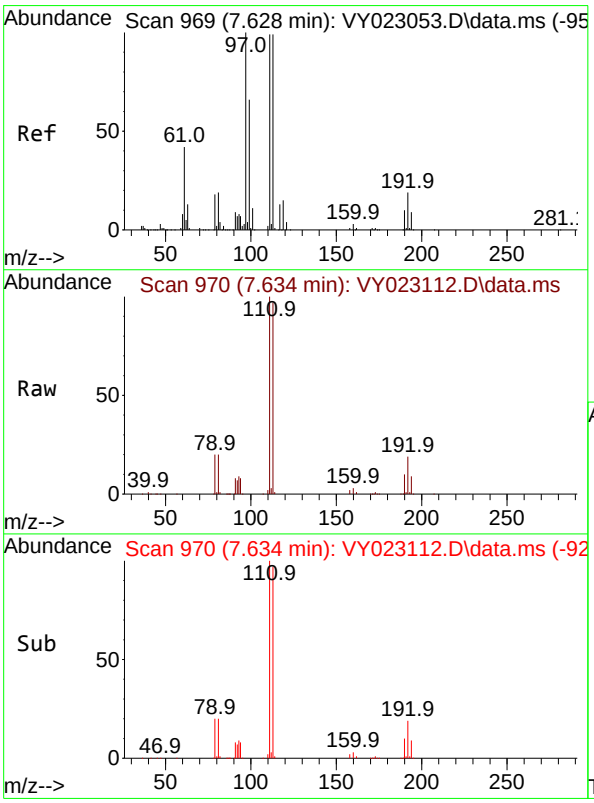
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Tgt Ion:114 Resp: 1049087

Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	38.4
88	14.6	0.0	30.0

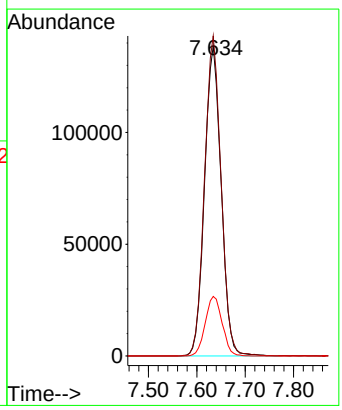


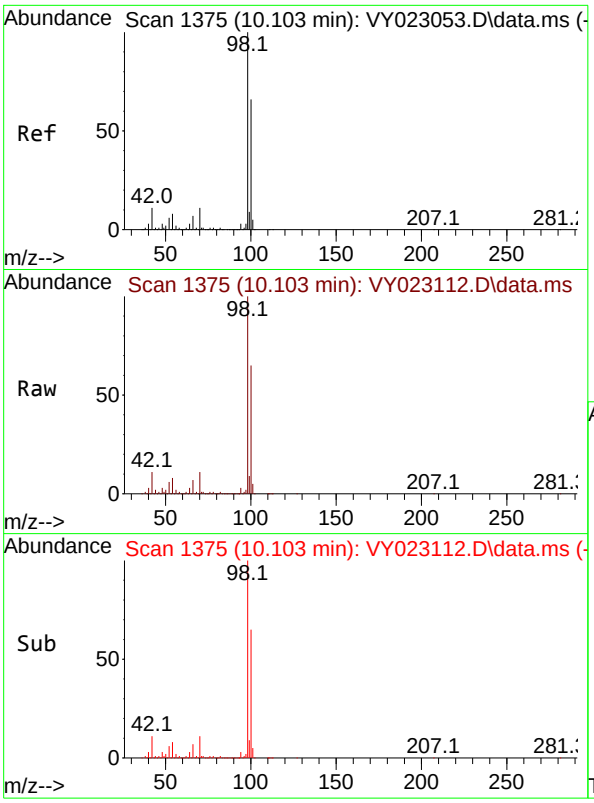


#35
Dibromofluoromethane
Concen: 52.682 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Tgt Ion:113 Resp: 330708

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.1	121.7
192	19.6	16.2	24.4



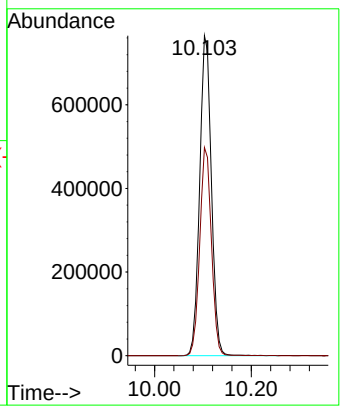


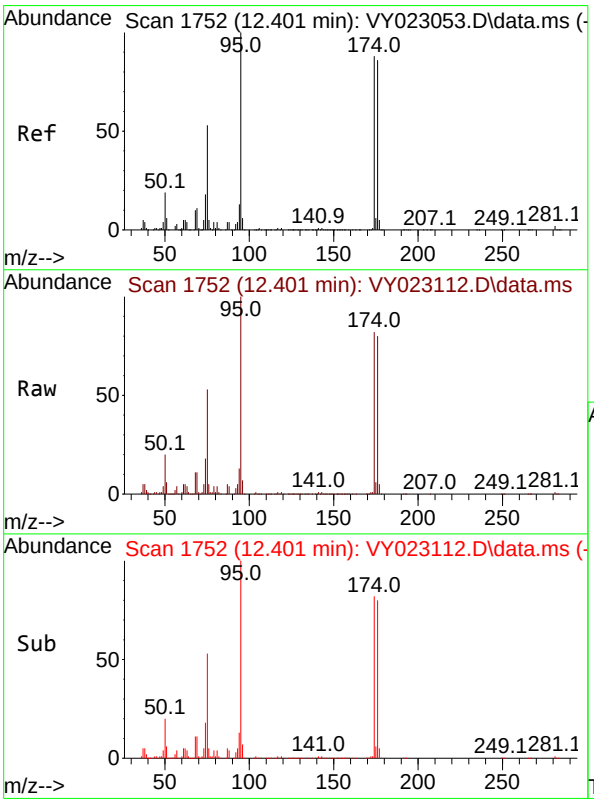
#50
Toluene-d8
Concen: 52.405 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Tgt Ion: 98 Resp: 1285132

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.3	78.5

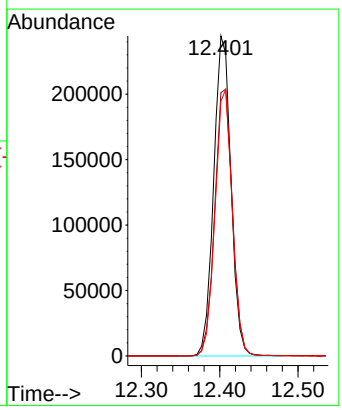


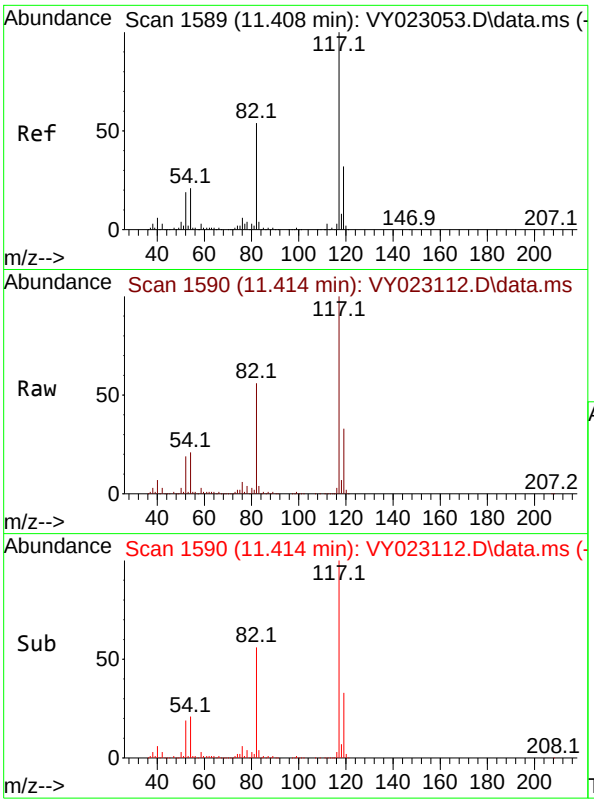


#62
4-Bromofluorobenzene
Concen: 47.544 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Tgt Ion: 95 Resp: 374958

Ion	Ratio	Lower	Upper
95	100		
174	85.9	0.0	171.6
176	83.0	0.0	167.6



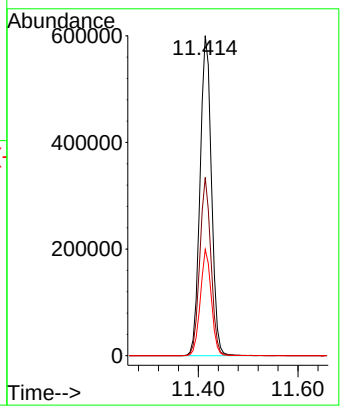


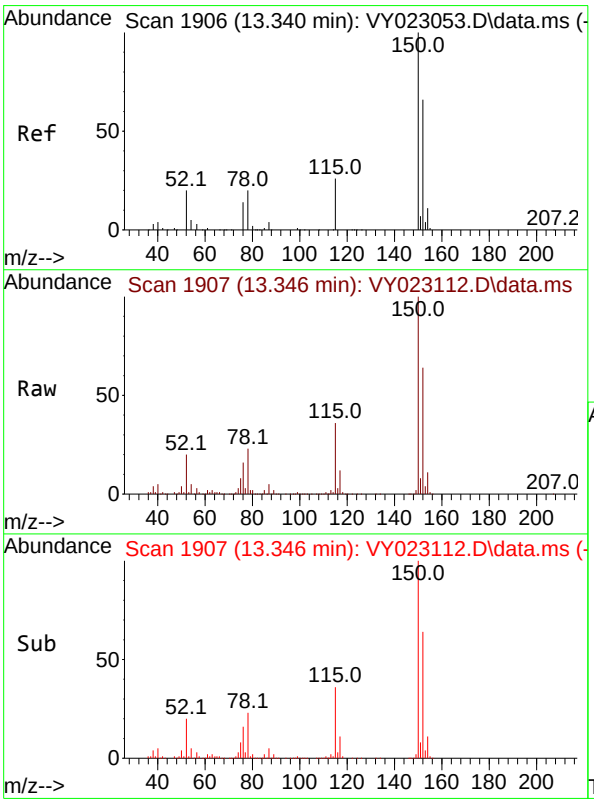
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Tgt Ion:117 Resp: 953139

Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.4	65.0
119	33.2	25.6	38.4

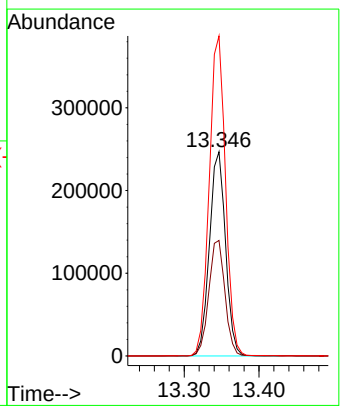




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023112.D
Acq: 15 Aug 2025 09:08

Tgt Ion:152 Resp: 370974

Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.2	84.6
150	157.6	0.0	348.0



Sample Results: **VY023112.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023112.D
Acq On : 15 Aug 2025 09:08
Operator : SY/MD
Sample : VY0815SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

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\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023112.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	463	474	487	rBV	14989	50337	1.51%	0.303%
2	7.634	960	970	976	rBV	464685	1112476	33.27%	6.688%
3	7.707	976	982	993	rVB	715479	1610606	48.17%	9.682%
4	8.061	1028	1040	1053	rBV	403205	890118	26.62%	5.351%
5	8.616	1121	1131	1144	rBV	1199454	2395578	71.65%	14.401%
6	9.676	1298	1305	1311	rBV	17461	37205	1.11%	0.224%
7	10.103	1368	1375	1384	rBV	1991604	3343501	100.00%	20.100%
8	11.414	1582	1590	1602	rBV	1836381	2914659	87.17%	17.522%
9	12.401	1745	1752	1763	rBV	1253322	1976340	59.11%	11.881%
10	13.346	1900	1907	1916	rVB	1452677	2248707	67.26%	13.518%
11	13.883	1988	1995	2004	rVB	30761	55163	1.65%	0.332%

Sum of corrected areas: 16634690

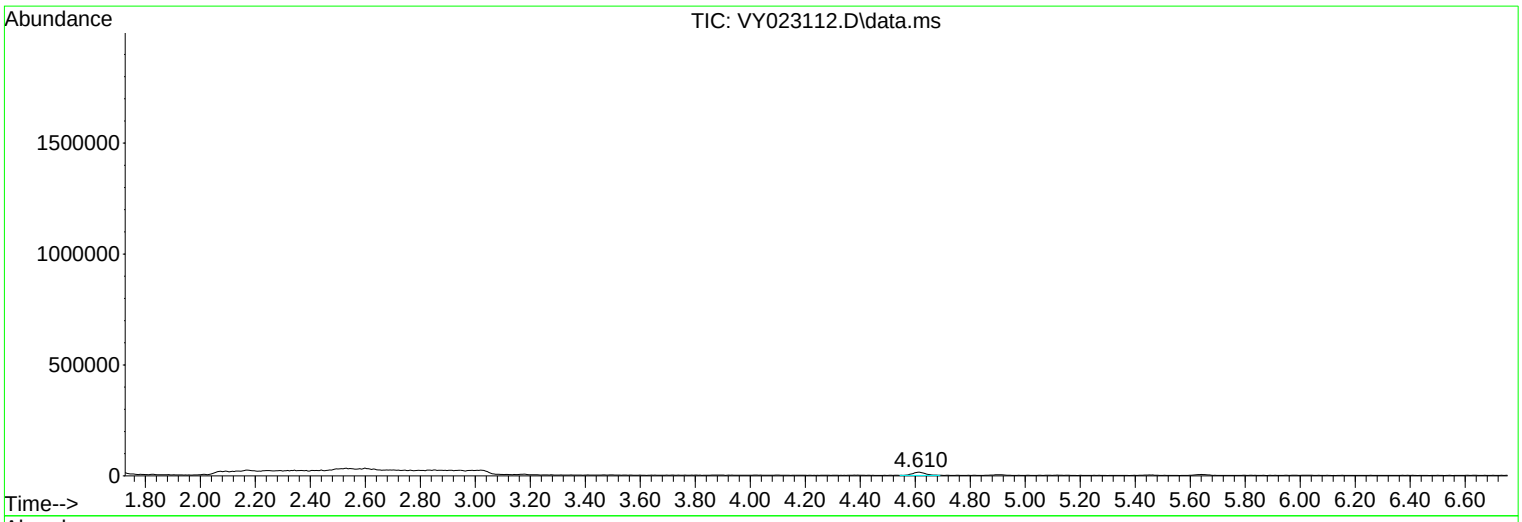
Sample Results: **VY023112.D**

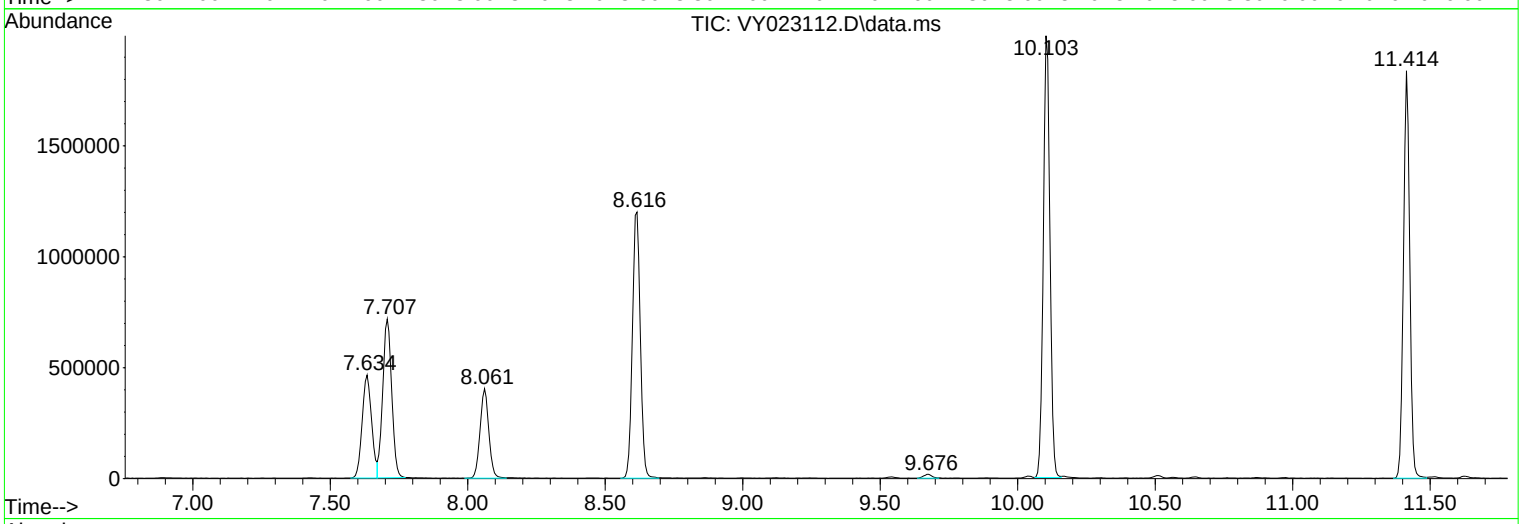
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023112.D
Acq On : 15 Aug 2025 09:08
Operator : SY/MD
Sample : VY0815SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

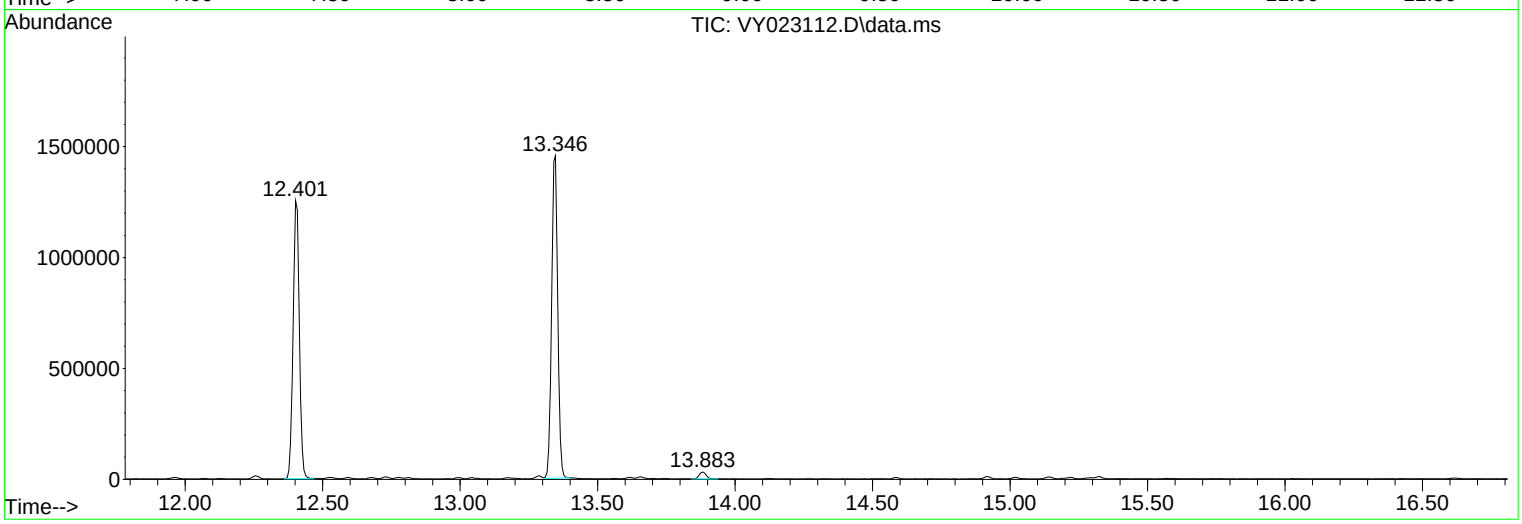
Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY023112.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023112.D
Acq On : 15 Aug 2025 09:08
Operator : SY/MD
Sample : VY0815SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY081525\
Data File : VY023112.D
Acq On : 15 Aug 2025 09:08
Operator : SY/MD
Sample : VY0815SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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\VY081525\
Data File : VY023113.D
Acq On : 15 Aug 2025 09:37
Operator : SY/MD
Sample : VY0815SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 02:24:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	452403	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	727202	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	654458	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.341	152	327154	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	222883	51.692	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.380%			
35) Dibromofluoromethane	7.634	113	214583	49.314	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.620%			
50) Toluene-d8	10.103	98	852746	50.165	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.320%			
62) 4-Bromofluorobenzene	12.402	95	265399	48.547	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	72666	19.678	ug/l	95
3) Chloromethane	2.068	50	133033	22.242	ug/l	99
4) Vinyl Chloride	2.202	62	166453	22.514	ug/l	99
5) Bromomethane	2.586	94	140731	25.487	ug/l	99
6) Chloroethane	2.733	64	111737	22.732	ug/l	98
7) Trichlorofluoromethane	3.050	101	189636	21.094	ug/l	99
8) Diethyl Ether	3.452	74	47224	19.855	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	89471	20.173	ug/l	98
10) Methyl Iodide	4.001	142	86732	18.122	ug/l	98
11) Tert butyl alcohol	4.860	59	27882	94.376	ug/l	99
12) 1,1-Dichloroethene	3.787	96	86211	19.775	ug/l	96
13) Acrolein	3.647	56	38871	89.841	ug/l	100
14) Allyl chloride	4.379	41	123002	19.175	ug/l	98
15) Acrylonitrile	5.055	53	97096	100.413	ug/l	99
16) Acetone	3.867	43	106046	113.526	ug/l	96
17) Carbon Disulfide	4.104	76	285962	20.117	ug/l	99
18) Methyl Acetate	4.379	43	51562	18.549	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	220832	19.548	ug/l	98
20) Methylene Chloride	4.610	84	108703	20.808	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	97531	19.907	ug/l	98
22) Diisopropyl ether	6.019	45	280592	20.129	ug/l	95
23) Vinyl Acetate	5.958	43	767186	99.534	ug/l	98
24) 1,1-Dichloroethane	5.915	63	173658	20.377	ug/l	99
25) 2-Butanone	6.890	43	133656	105.206	ug/l	100
26) 2,2-Dichloropropane	6.884	77	149423	20.319	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	113605	20.058	ug/l	97
28) Bromochloromethane	7.238	49	74111	21.919	ug/l	96
29) Tetrahydrofuran	7.262	42	77082	97.884	ug/l	99
30) Chloroform	7.415	83	183779	20.909	ug/l	92
31) Cyclohexane	7.701	56	151804	18.902	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	157956	20.254	ug/l	99
36) 1,1-Dichloropropene	7.835	75	129384	20.008	ug/l	99
37) Ethyl Acetate	6.982	43	55493	20.428	ug/l	98
38) Carbon Tetrachloride	7.817	117	137873	19.630	ug/l	99
39) Methylcyclohexane	9.103	83	159285	18.705	ug/l	99
40) Benzene	8.079	78	405603	20.350	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023113.D
Acq On : 15 Aug 2025 09:37
Operator : SY/MD
Sample : VY0815SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 02:24:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	28150	17.956	ug/l		90
42) 1,2-Dichloroethane	8.152	62	106658	20.575	ug/l		98
43) Isopropyl Acetate	8.195	43	107344	19.551	ug/l		99
44) Trichloroethene	8.860	130	105377	20.459	ug/l		100
45) 1,2-Dichloropropane	9.140	63	93789	20.451	ug/l		100
46) Dibromomethane	9.231	93	54800	20.819	ug/l		97
47) Bromodichloromethane	9.420	83	141008	20.819	ug/l		100
48) Methyl methacrylate	9.219	41	49562	18.864	ug/l		98
49) 1,4-Dioxane	9.238	88	12370	400.796	ug/l		97
51) 4-Methyl-2-Pentanone	9.994	43	277163	97.864	ug/l		100
52) Toluene	10.170	92	255717	20.201	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	121993	19.890	ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	142316	19.623	ug/l		98
55) 1,1,2-Trichloroethane	10.567	97	71057	20.174	ug/l		98
56) Ethyl methacrylate	10.439	69	86412	19.173	ug/l		98
57) 1,3-Dichloropropane	10.713	76	118549	19.846	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	208567	98.106	ug/l		100
59) 2-Hexanone	10.756	43	193382	100.277	ug/l		99
60) Dibromochloromethane	10.908	129	93374	20.091	ug/l		99
61) 1,2-Dibromoethane	11.012	107	66622	20.125	ug/l		98
64) Tetrachloroethene	10.646	164	127239	21.773	ug/l		93
65) Chlorobenzene	11.438	112	274616	19.453	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.512	131	93262	19.466	ug/l		98
67) Ethyl Benzene	11.518	91	456905	18.808	ug/l		98
68) m/p-Xylenes	11.627	106	365819	38.555	ug/l		98
69) o-Xylene	11.951	106	165713	18.648	ug/l		98
70) Styrene	11.969	104	281721	19.385	ug/l		99
71) Bromoform	12.127	173	52326	18.687	ug/l	#	98
73) Isopropylbenzene	12.249	105	433053	18.755	ug/l		99
74) N-amyl acetate	12.066	43	91104	18.605	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.499	83	71400	18.110	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	61433m	19.457	ug/l		
77) Bromobenzene	12.530	156	104694	19.006	ug/l		97
78) n-propylbenzene	12.591	91	527930	19.204	ug/l		100
79) 2-Chlorotoluene	12.676	91	298409	18.946	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	351759	18.850	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	24161	18.524	ug/l		95
82) 4-Chlorotoluene	12.774	91	307174	18.799	ug/l		99
83) tert-Butylbenzene	12.993	119	305956	18.153	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	356647	19.199	ug/l		99
85) sec-Butylbenzene	13.170	105	468353	18.917	ug/l		100
86) p-Isopropyltoluene	13.286	119	388353	18.897	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	206995	19.055	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	207638	19.268	ug/l		99
89) n-Butylbenzene	13.615	91	353333	18.720	ug/l		98
90) Hexachloroethane	13.877	117	82985	19.725	ug/l		97
91) 1,2-Dichlorobenzene	13.658	146	180503	18.946	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	12160	19.809	ug/l		96
93) 1,2,4-Trichlorobenzene	14.913	180	102405	18.177	ug/l		99
94) Hexachlorobutadiene	15.017	225	61940	18.710	ug/l		98
95) Naphthalene	15.139	128	168145	17.503	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	86860	17.892	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023113.D
Acq On : 15 Aug 2025 09:37
Operator : SY/MD
Sample : VY0815SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 02:24:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

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

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

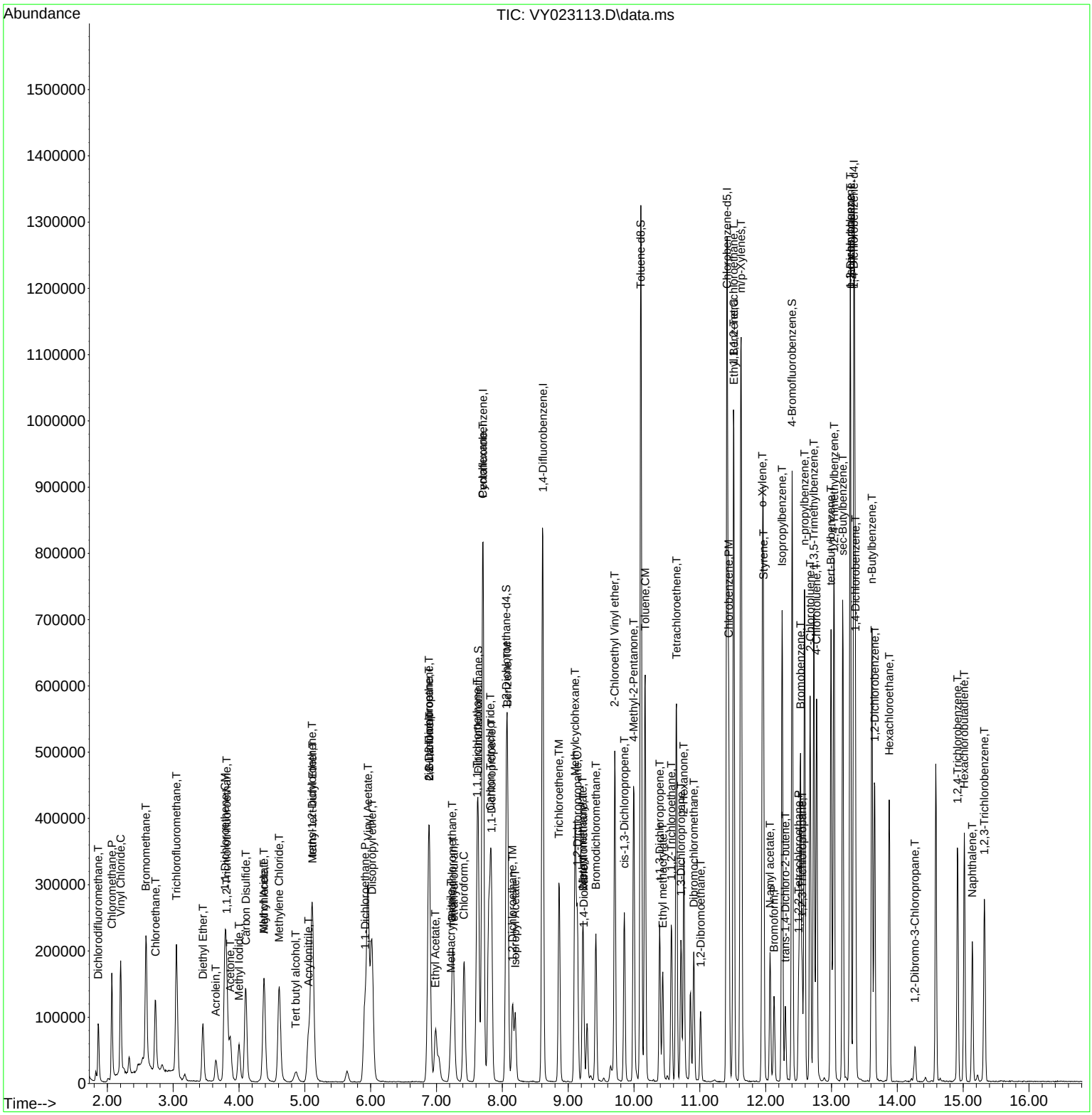
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023113.D
Acq On : 15 Aug 2025 09:37
Operator : SY/MD
Sample : VY0815SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 02:24:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023114.D
Acq On : 15 Aug 2025 09:59
Operator : SY/MD
Sample : VY0815SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 18 02:25:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	440097	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	718363	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	623331	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	315352	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	218582	52.112	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.220%			
35) Dibromofluoromethane	7.634	113	216052	50.263	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.520%			
50) Toluene-d8	10.103	98	848930	50.555	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.100%			
62) 4-Bromofluorobenzene	12.401	95	263062	48.712	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	76393	21.266	ug/l	99
3) Chloromethane	2.068	50	132852	22.833	ug/l	99
4) Vinyl Chloride	2.202	62	167480	23.286	ug/l	99
5) Bromomethane	2.586	94	136955	25.497	ug/l	99
6) Chloroethane	2.732	64	114091	23.860	ug/l	100
7) Trichlorofluoromethane	3.050	101	194616	22.253	ug/l	99
8) Diethyl Ether	3.452	74	48378	20.909	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.812	101	93467	21.663	ug/l	99
10) Methyl Iodide	4.001	142	95118	20.430	ug/l	98
11) Tert butyl alcohol	4.860	59	28033	97.541	ug/l	100
12) 1,1-Dichloroethene	3.781	96	88433	20.852	ug/l	97
13) Acrolein	3.647	56	36366	86.401	ug/l	100
14) Allyl chloride	4.379	41	121986	19.548	ug/l	98
15) Acrylonitrile	5.061	53	94706	100.680	ug/l	99
16) Acetone	3.866	43	99097	109.054	ug/l	97
17) Carbon Disulfide	4.098	76	288100	20.834	ug/l	99
18) Methyl Acetate	4.385	43	57336	21.203	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	222672	20.262	ug/l	99
20) Methylene Chloride	4.610	84	111293	22.050	ug/l	99
21) trans-1,2-Dichloroethene	5.116	96	100236	21.032	ug/l	94
22) Diisopropyl ether	6.018	45	280376	20.676	ug/l	97
23) Vinyl Acetate	5.958	43	746169	99.514	ug/l	99
24) 1,1-Dichloroethane	5.915	63	173769	20.960	ug/l	98
25) 2-Butanone	6.890	43	127742	103.362	ug/l	98
26) 2,2-Dichloropropane	6.884	77	150177	20.993	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	113218	20.549	ug/l	100
28) Bromochloromethane	7.244	49	71693	21.797	ug/l	98
29) Tetrahydrofuran	7.256	42	75128	98.070	ug/l	99
30) Chloroform	7.421	83	184733	21.605	ug/l	98
31) Cyclohexane	7.701	56	153728	19.677	ug/l #	93
32) 1,1,1-Trichloroethane	7.616	97	159387	21.009	ug/l	98
36) 1,1-Dichloropropene	7.835	75	130154	20.374	ug/l	99
37) Ethyl Acetate	6.982	43	53108	19.791	ug/l	99
38) Carbon Tetrachloride	7.817	117	142469	20.534	ug/l	100
39) Methylcyclohexane	9.103	83	163971	19.492	ug/l	98
40) Benzene	8.079	78	406307	20.636	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023114.D
Acq On : 15 Aug 2025 09:59
Operator : SY/MD
Sample : VY0815SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 18 02:25:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	30597m	19.757	ug/l		
42) 1,2-Dichloroethane	8.158	62	106851	20.866	ug/l		98
43) Isopropyl Acetate	8.195	43	104154	19.203	ug/l		98
44) Trichloroethene	8.859	130	107257	21.080	ug/l		97
45) 1,2-Dichloropropane	9.140	63	93109	20.553	ug/l		100
46) Dibromomethane	9.231	93	55348	21.286	ug/l		96
47) Bromodichloromethane	9.420	83	138806	20.746	ug/l		97
48) Methyl methacrylate	9.219	41	48220	18.579	ug/l		93
49) 1,4-Dioxane	9.225	88	12812	420.225	ug/l		96
51) 4-Methyl-2-Pentanone	9.993	43	277745	99.276	ug/l		100
52) Toluene	10.170	92	256278	20.494	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	119229	19.679	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	144778	20.208	ug/l		99
55) 1,1,2-Trichloroethane	10.566	97	70888	20.374	ug/l		97
56) Ethyl methacrylate	10.438	69	83239	18.696	ug/l		97
57) 1,3-Dichloropropane	10.713	76	119333	20.223	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	207784	98.940	ug/l		99
59) 2-Hexanone	10.755	43	190027	99.749	ug/l		97
60) Dibromochloromethane	10.908	129	94653	20.617	ug/l		100
61) 1,2-Dibromoethane	11.011	107	65954	20.168	ug/l		99
64) Tetrachloroethene	10.646	164	126762	22.775	ug/l		99
65) Chlorobenzene	11.438	112	283100	21.056	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	94430	20.694	ug/l		98
67) Ethyl Benzene	11.518	91	466536	20.163	ug/l		99
68) m/p-Xylenes	11.627	106	371794	41.142	ug/l		97
69) o-Xylene	11.950	106	170235	20.113	ug/l		100
70) Styrene	11.963	104	283934	20.513	ug/l		99
71) Bromoform	12.127	173	52702	19.761	ug/l	#	98
73) Isopropylbenzene	12.249	105	431158	19.372	ug/l		100
74) N-amyl acetate	12.066	43	89546	18.971	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.499	83	72067	18.963	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	62895m	20.665	ug/l		
77) Bromobenzene	12.530	156	104717	19.721	ug/l		99
78) n-propylbenzene	12.590	91	536311	20.239	ug/l		99
79) 2-Chlorotoluene	12.676	91	300425	19.787	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	355894	19.785	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	23540	18.723	ug/l		94
82) 4-Chlorotoluene	12.773	91	318860	20.245	ug/l		100
83) tert-Butylbenzene	12.993	119	307259	18.913	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	355479	19.852	ug/l		99
85) sec-Butylbenzene	13.170	105	469710	19.682	ug/l		100
86) p-Isopropyltoluene	13.285	119	390935	19.735	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	210704	20.122	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	206023	19.834	ug/l		99
89) n-Butylbenzene	13.615	91	358048	19.679	ug/l		98
90) Hexachloroethane	13.877	117	81804	20.172	ug/l		97
91) 1,2-Dichlorobenzene	13.651	146	181214	19.733	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	11846	20.020	ug/l		94
93) 1,2,4-Trichlorobenzene	14.913	180	100490	18.504	ug/l		97
94) Hexachlorobutadiene	15.017	225	59682	18.702	ug/l		97
95) Naphthalene	15.139	128	167894	18.131	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	86969	18.585	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023114.D
Acq On : 15 Aug 2025 09:59
Operator : SY/MD
Sample : VY0815SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 18 02:25:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

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

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

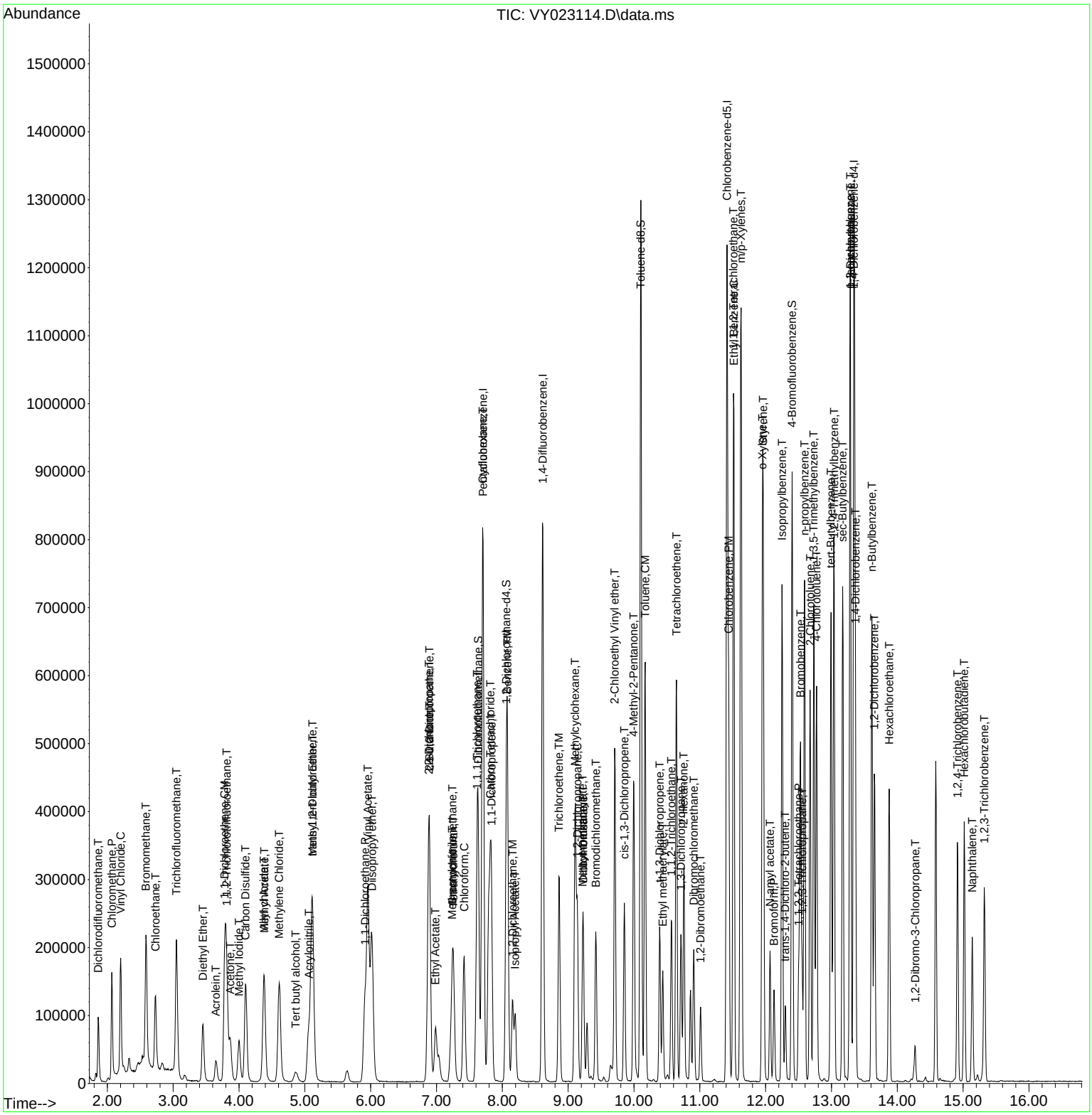
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
Data File : VY023114.D
Acq On : 15 Aug 2025 09:59
Operator : SY/MD
Sample : VY0815SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 18 02:25:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0815SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025



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

Manual Integration Report

Sequence:	VY081225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY023050.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:33:57 PM	SAM	8/14/2025 7:43:56 PM	Peak Integrated by Software
VSTDICC005	VY023050.D	Methacrylonitrile	MMDadoda	8/14/2025 7:33:57 PM	SAM	8/14/2025 7:43:56 PM	Peak Integrated by Software
VSTDICC010	VY023051.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:34:06 PM	SAM	8/14/2025 7:43:57 PM	Peak Integrated by Software
VSTDICC020	VY023052.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:34:08 PM	SAM	8/14/2025 7:43:59 PM	Peak Integrated by Software
VSTDICC020	VY023052.D	Methacrylonitrile	MMDadoda	8/14/2025 7:34:08 PM	SAM	8/14/2025 7:43:59 PM	Peak Integrated by Software
VSTDICCC050	VY023053.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:34:10 PM	SAM	8/14/2025 7:44:00 PM	Peak Integrated by Software
VSTDICC100	VY023054.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:34:12 PM	SAM	8/14/2025 7:44:02 PM	Peak Integrated by Software
VSTDICC150	VY023055.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:34:15 PM	SAM	8/14/2025 7:44:04 PM	Peak Integrated by Software
VSTDICV050	VY023057.D	1,2,3-Trichloropropane	MMDadoda	8/14/2025 7:34:16 PM	SAM	8/14/2025 7:44:06 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY081525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023111.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:19:46 AM	MMDadoda	8/19/2025 4:24:10 AM	Peak Integrated by Software
VSTDCCC050	VY023111.D	Methacrylonitrile	SAM	8/19/2025 4:19:46 AM	MMDadoda	8/19/2025 4:24:10 AM	Peak Integrated by Software
VY0815SBS01	VY023113.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:19:47 AM	MMDadoda	8/19/2025 4:24:11 AM	Peak Integrated by Software
VY0815SBSD01	VY023114.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:19:48 AM	MMDadoda	8/19/2025 4:24:12 AM	Peak Integrated by Software
VY0815SBSD01	VY023114.D	Methacrylonitrile	SAM	8/19/2025 4:19:48 AM	MMDadoda	8/19/2025 4:24:12 AM	Peak Integrated by Software
VSTDCCC050	VY023135.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:19:49 AM	MMDadoda	8/19/2025 4:24:14 AM	Peak Integrated by Software

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 # VY081225

Review By	Mahesh Dadoda	Review On	8/14/2025 7:34:22 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2025 7:44:13 PM				
SubDirectory	VY081225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135083
Initial Calibration Stds	VP135084,VP135085,VP135086,VP135087,VP135088,VP135089
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP135090
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023048.D	12 Aug 2025 08:26	SY/MD	Ok
2	VSTDICC005	VY023049.D	12 Aug 2025 14:32	SY/MD	Not Ok
3	VSTDICC005	VY023050.D	12 Aug 2025 14:54	SY/MD	Ok,M
4	VSTDICC010	VY023051.D	12 Aug 2025 15:17	SY/MD	Ok,M
5	VSTDICC020	VY023052.D	12 Aug 2025 15:40	SY/MD	Ok,M
6	VSTDICCC050	VY023053.D	12 Aug 2025 16:02	SY/MD	Ok,M
7	VSTDICC100	VY023054.D	12 Aug 2025 16:25	SY/MD	Ok,M
8	VSTDICC150	VY023055.D	12 Aug 2025 16:47	SY/MD	Ok,M
9	VIBLK	VY023056.D	12 Aug 2025 17:31	SY/MD	Ok
10	VSTDICV050	VY023057.D	12 Aug 2025 17:53	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081525

Review By	Semsettin Yesilyurt	Review On	8/19/2025 4:20:36 AM				
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 4:24:34 AM				
SubDirectory	VY081525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135149
Initial Calibration Stds	
CCC	VP135150,VP135151
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023110.D	15 Aug 2025 08:07	SY/MD	Ok
2	VSTDCCC050	VY023111.D	15 Aug 2025 08:39	SY/MD	Ok,M
3	VY0815SBL01	VY023112.D	15 Aug 2025 09:08	SY/MD	Ok
4	VY0815SBS01	VY023113.D	15 Aug 2025 09:37	SY/MD	Ok,M
5	VY0815SBSD01	VY023114.D	15 Aug 2025 09:59	SY/MD	Ok,M
6	Q2876-01	VY023115.D	15 Aug 2025 10:44	SY/MD	Ok
7	Q2877-01	VY023116.D	15 Aug 2025 11:07	SY/MD	Ok
8	Q2853-01	VY023117.D	15 Aug 2025 11:31	SY/MD	Ok
9	Q2820-21	VY023118.D	15 Aug 2025 11:54	SY/MD	Ok
10	Q2820-22	VY023119.D	15 Aug 2025 12:18	SY/MD	Ok
11	Q2883-01	VY023120.D	15 Aug 2025 12:41	SY/MD	Ok
12	Q2820-23	VY023121.D	15 Aug 2025 13:05	SY/MD	ReRun
13	Q2820-24	VY023122.D	15 Aug 2025 13:28	SY/MD	Ok
14	Q2832-01	VY023123.D	15 Aug 2025 14:24	SY/MD	Ok
15	Q2832-03	VY023124.D	15 Aug 2025 14:47	SY/MD	Ok
16	Q2832-05	VY023125.D	15 Aug 2025 15:11	SY/MD	Ok
17	Q2832-07	VY023126.D	15 Aug 2025 15:34	SY/MD	Ok
18	Q2832-09	VY023127.D	15 Aug 2025 15:58	SY/MD	Ok
19	Q2844-02	VY023128.D	15 Aug 2025 16:21	SY/MD	Ok
20	Q2844-04	VY023129.D	15 Aug 2025 16:45	SY/MD	Ok
21	Q2844-06	VY023130.D	15 Aug 2025 17:08	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 # VY081525

Review By	Semsettin Yesilyurt	Review On	8/19/2025 4:20:36 AM				
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 4:24:34 AM				
SubDirectory	VY081525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135149
Initial Calibration Stds	
CCC	VP135150,VP135151
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2868-02	VY023131.D	15 Aug 2025 17:33	SY/MD	Ok
23	Q2865-01	VY023132.D	15 Aug 2025 17:56	SY/MD	Ok
24	Q2884-01	VY023133.D	15 Aug 2025 18:19	SY/MD	Ok
25	VIBLK	VY023134.D	15 Aug 2025 18:43	SY/MD	Ok
26	VSTDCCC050	VY023135.D	15 Aug 2025 19:06	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081225

Review By	Mahesh Dadoda	Review On	8/14/2025 7:34:22 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2025 7:44:13 PM		
SubDirectory	VY081225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135083
Initial Calibration Stds	VP135084,VP135085,VP135086,VP135087,VP135088,VP135089
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP135090
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023048.D	12 Aug 2025 08:26		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY023049.D	12 Aug 2025 14:32	Not used	SY/MD	Not Ok
3	VSTDICC005	VSTDICC005	VY023050.D	12 Aug 2025 14:54		SY/MD	Ok,M
4	VSTDICC010	VSTDICC010	VY023051.D	12 Aug 2025 15:17		SY/MD	Ok,M
5	VSTDICC020	VSTDICC020	VY023052.D	12 Aug 2025 15:40	LR-20	SY/MD	Ok,M
6	VSTDICCC050	VSTDICCC050	VY023053.D	12 Aug 2025 16:02		SY/MD	Ok,M
7	VSTDICC100	VSTDICC100	VY023054.D	12 Aug 2025 16:25		SY/MD	Ok,M
8	VSTDICC150	VSTDICC150	VY023055.D	12 Aug 2025 16:47		SY/MD	Ok,M
9	VIBLK	VIBLK	VY023056.D	12 Aug 2025 17:31		SY/MD	Ok
10	VSTDICV050	ICVVY081225	VY023057.D	12 Aug 2025 17:53		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081525

Review By	Semsettin Yesilyurt	Review On	8/19/2025 4:20:36 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 4:24:34 AM		
SubDirectory	VY081525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135149
Initial Calibration Stds	
CCC	VP135150,VP135151
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023110.D	15 Aug 2025 08:07		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023111.D	15 Aug 2025 08:39		SY/MD	Ok,M
3	VY0815SBL01	VY0815SBL01	VY023112.D	15 Aug 2025 09:08		SY/MD	Ok
4	VY0815SBS01	VY0815SBS01	VY023113.D	15 Aug 2025 09:37		SY/MD	Ok,M
5	VY0815SBSD01	VY0815SBSD01	VY023114.D	15 Aug 2025 09:59		SY/MD	Ok,M
6	Q2876-01	CL-02-08142025	VY023115.D	15 Aug 2025 10:44		SY/MD	Ok
7	Q2877-01	EO-02-08142025	VY023116.D	15 Aug 2025 11:07		SY/MD	Ok
8	Q2853-01	Tr-5-081325	VY023117.D	15 Aug 2025 11:31		SY/MD	Ok
9	Q2820-21	22M-N	VY023118.D	15 Aug 2025 11:54		SY/MD	Ok
10	Q2820-22	22M-W	VY023119.D	15 Aug 2025 12:18		SY/MD	Ok
11	Q2883-01	RBR2520553	VY023120.D	15 Aug 2025 12:41		SY/MD	Ok
12	Q2820-23	22M-E	VY023121.D	15 Aug 2025 13:05	Surrogate fail	SY/MD	ReRun
13	Q2820-24	22M-S	VY023122.D	15 Aug 2025 13:28		SY/MD	Ok
14	Q2832-01	TG-S01	VY023123.D	15 Aug 2025 14:24		SY/MD	Ok
15	Q2832-03	TG-S02	VY023124.D	15 Aug 2025 14:47		SY/MD	Ok
16	Q2832-05	TG-S03	VY023125.D	15 Aug 2025 15:11		SY/MD	Ok
17	Q2832-07	TG-S04	VY023126.D	15 Aug 2025 15:34		SY/MD	Ok
18	Q2832-09	TG-S05	VY023127.D	15 Aug 2025 15:58		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 # VY081525

Review By	Semsettin Yesilyurt	Review On	8/19/2025 4:20:36 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 4:24:34 AM		
SubDirectory	VY081525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135149
Initial Calibration Stds	
CCC	VP135150,VP135151
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2844-02	MOO-25-0224-0225	VY023128.D	15 Aug 2025 16:21		SY/MD	Ok
20	Q2844-04	MOO-25-0234-0235	VY023129.D	15 Aug 2025 16:45		SY/MD	Ok
21	Q2844-06	MOO-25-0223	VY023130.D	15 Aug 2025 17:08		SY/MD	Ok
22	Q2868-02	VOC	VY023131.D	15 Aug 2025 17:33		SY/MD	Ok
23	Q2865-01	ARS10-0047-VOC	VY023132.D	15 Aug 2025 17:56		SY/MD	Ok
24	Q2884-01	VNJ-232	VY023133.D	15 Aug 2025 18:19		SY/MD	Ok
25	VIBLK	VIBLK	VY023134.D	15 Aug 2025 18:43		SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VY023135.D	15 Aug 2025 19:06		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:	Q2832	**OrderDate:**	8/12/2025 9:37:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	J21,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2832-01	**TG-S01**	**SOIL**			**08/11/25**			**08/12/25**
			VOC-TCLVOA-10	8260D			08/15/25	
Q2832-03	**TG-S02**	**SOIL**			**08/11/25**			**08/12/25**
			VOC-TCLVOA-10	8260D			08/15/25	
Q2832-05	**TG-S03**	**SOIL**			**08/11/25**			**08/12/25**
			VOC-TCLVOA-10	8260D			08/15/25	
Q2832-07	**TG-S04**	**SOIL**			**08/11/25**			**08/12/25**
			VOC-TCLVOA-10	8260D			08/15/25	
Q2832-09	**TG-S05**	**SOIL**			**08/12/25**			**08/12/25**
			VOC-TCLVOA-10	8260D			08/15/25	