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

Hit Summary Sheet
SW-846

SDG No.: Q1982

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration		C	MDL	RDL	Units
Client ID:	**TP-1**									
Q1982-01	TP-1	SOIL	Acetone		20.7			1.80	9.70	ug/Kg
Q1982-01	TP-1	SOIL	2-Butanone		2.50		J	2.50	9.70	ug/Kg
			Total Voc :			23.2				
			Total Concentration:			23.2				
Client ID:	**TP-2B**									
Q1982-02	TP-2B	SOIL	unknown2.489	*	3.10		J	0	0	ug/Kg
			Total Tics :			3.10				
			Total Concentration:			3.10				
Client ID:	**TP-3**									
Q1982-03	TP-3	SOIL	Acetone		3.30		J	2.20	11.6	ug/Kg
			Total Voc :			3.30				
Q1982-03	TP-3	SOIL	2-Chloroethanol	*	3.20		J	0	0	ug/Kg
			Total Tics :			3.20				
			Total Concentration:			6.50				
Client ID:	**TP-4**									
Q1982-04	TP-4	SOIL	Acetone		20.5			2.30	12.2	ug/Kg
			Total Voc :			20.5				
			Total Concentration:			20.5				
Client ID:	**TP-5**									
Q1982-05	TP-5	SOIL	Acetone		9.40		J	2.60	13.5	ug/Kg
			Total Voc :			9.40				
			Total Concentration:			9.40				
Client ID:	**TP-6**									
Q1982-06	TP-6	SOIL	Acetone		16.7		J	8.50	44.8	ug/Kg
			Total Voc :			16.7				
			Total Concentration:			16.7				
Client ID:	**TP-8**									
Q1982-07	TP-8	SOIL	unknown2.489	*	4.90		J	0	0	ug/Kg
			Total Tics :			4.90				
			Total Concentration:			4.90				

SAMPLE DATA

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

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-1	SDG No.:	Q1982
Lab Sample ID:	Q1982-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.9
Sample Wt/Vol:	15.93 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022286.D	1		05/16/25 13:17	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.44	U	0.44	1.90	ug/Kg
74-87-3	Chloromethane	0.44	U	0.44	1.90	ug/Kg
75-01-4	Vinyl Chloride	0.31	U	0.31	1.90	ug/Kg
74-83-9	Bromomethane	0.42	U	0.42	1.90	ug/Kg
75-00-3	Chloroethane	0.49	U	0.49	1.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.47	U	0.47	1.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.41	U	0.41	1.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.39	U	0.39	1.90	ug/Kg
67-64-1	Acetone	20.7		1.80	9.70	ug/Kg
75-15-0	Carbon Disulfide	0.41	U	0.41	1.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.28	U	0.28	1.90	ug/Kg
79-20-9	Methyl Acetate	0.60	U	0.60	1.90	ug/Kg
75-09-2	Methylene Chloride	1.40	U	1.40	3.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.31	U	0.31	1.90	ug/Kg
110-82-7	Cyclohexane	0.31	U	0.31	1.90	ug/Kg
78-93-3	2-Butanone	2.50	J	2.50	9.70	ug/Kg
56-23-5	Carbon Tetrachloride	0.38	U	0.38	1.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.29	U	0.29	1.90	ug/Kg
74-97-5	Bromochloromethane	0.45	U	0.45	1.90	ug/Kg
67-66-3	Chloroform	0.33	U	0.33	1.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.36	U	0.36	1.90	ug/Kg
108-87-2	Methylcyclohexane	0.35	U	0.35	1.90	ug/Kg
71-43-2	Benzene	0.31	U	0.31	1.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.31	U	0.31	1.90	ug/Kg
79-01-6	Trichloroethene	0.31	U	0.31	1.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.35	U	0.35	1.90	ug/Kg
75-27-4	Bromodichloromethane	0.30	U	0.30	1.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	1.40	U	1.40	9.70	ug/Kg
108-88-3	Toluene	0.30	U	0.30	1.90	ug/Kg

Raw Data: **VY022286.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-1	SDG No.:	Q1982
Lab Sample ID:	Q1982-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.9
Sample Wt/Vol:	15.93 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022286.D	1		05/16/25 13:17	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.25	U	0.25	1.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.24	U	0.24	1.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.36	U	0.36	1.90	ug/Kg
591-78-6	2-Hexanone	1.40	U	1.40	9.70	ug/Kg
124-48-1	Dibromochloromethane	0.34	U	0.34	1.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.34	U	0.34	1.90	ug/Kg
127-18-4	Tetrachloroethene	0.41	U	0.41	1.90	ug/Kg
108-90-7	Chlorobenzene	0.35	U	0.35	1.90	ug/Kg
100-41-4	Ethyl Benzene	0.26	U	0.26	1.90	ug/Kg
179601-23-1	m/p-Xylenes	0.48	U	0.48	3.90	ug/Kg
95-47-6	o-Xylene	0.32	U	0.32	1.90	ug/Kg
100-42-5	Styrene	0.28	U	0.28	1.90	ug/Kg
75-25-2	Bromoform	0.33	U	0.33	1.90	ug/Kg
98-82-8	Isopropylbenzene	0.30	U	0.30	1.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.47	U	0.47	1.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.66	U	0.66	1.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.61	U	0.61	1.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.56	U	0.56	1.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.71	U	0.71	1.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.20	U	1.20	1.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.20	U	1.20	1.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.0		63 - 155	120%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	49.6		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.7		38 - 136	85%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	280000	7.707			
540-36-3	1,4-Difluorobenzene	499000	8.61			
3114-55-4	Chlorobenzene-d5	413000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	154000	13.347			

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-1	SDG No.:	Q1982
Lab Sample ID:	Q1982-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.9
Sample Wt/Vol:	15.93 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022286.D	1		05/16/25 13:17	VY051625

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: **VY022287.D**

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

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-2B	SDG No.:	Q1982
Lab Sample ID:	Q1982-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85
Sample Wt/Vol:	15.26 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022287.D	1		05/16/25 13:41	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.44	U	0.44	1.90	ug/Kg
74-87-3	Chloromethane	0.44	U	0.44	1.90	ug/Kg
75-01-4	Vinyl Chloride	0.30	U	0.30	1.90	ug/Kg
74-83-9	Bromomethane	0.41	U	0.41	1.90	ug/Kg
75-00-3	Chloroethane	0.49	U	0.49	1.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.47	U	0.47	1.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.41	U	0.41	1.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.39	U	0.39	1.90	ug/Kg
67-64-1	Acetone	1.80	U	1.80	9.60	ug/Kg
75-15-0	Carbon Disulfide	0.41	U	0.41	1.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.28	U	0.28	1.90	ug/Kg
79-20-9	Methyl Acetate	0.59	U	0.59	1.90	ug/Kg
75-09-2	Methylene Chloride	1.40	U	1.40	3.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.33	U	0.33	1.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.31	U	0.31	1.90	ug/Kg
110-82-7	Cyclohexane	0.30	U	0.30	1.90	ug/Kg
78-93-3	2-Butanone	2.50	U	2.50	9.60	ug/Kg
56-23-5	Carbon Tetrachloride	0.37	U	0.37	1.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.29	U	0.29	1.90	ug/Kg
74-97-5	Bromochloromethane	0.44	U	0.44	1.90	ug/Kg
67-66-3	Chloroform	0.32	U	0.32	1.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.36	U	0.36	1.90	ug/Kg
108-87-2	Methylcyclohexane	0.35	U	0.35	1.90	ug/Kg
71-43-2	Benzene	0.30	U	0.30	1.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.30	U	0.30	1.90	ug/Kg
79-01-6	Trichloroethene	0.31	U	0.31	1.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.35	U	0.35	1.90	ug/Kg
75-27-4	Bromodichloromethane	0.30	U	0.30	1.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	1.40	U	1.40	9.60	ug/Kg
108-88-3	Toluene	0.30	U	0.30	1.90	ug/Kg

Raw Data: **VY022287.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-2B	SDG No.:	Q1982
Lab Sample ID:	Q1982-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85
Sample Wt/Vol:	15.26 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022287.D	1		05/16/25 13:41	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.25	U	0.25	1.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.24	U	0.24	1.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.35	U	0.35	1.90	ug/Kg
591-78-6	2-Hexanone	1.40	U	1.40	9.60	ug/Kg
124-48-1	Dibromochloromethane	0.34	U	0.34	1.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.34	U	0.34	1.90	ug/Kg
127-18-4	Tetrachloroethene	0.40	U	0.40	1.90	ug/Kg
108-90-7	Chlorobenzene	0.35	U	0.35	1.90	ug/Kg
100-41-4	Ethyl Benzene	0.26	U	0.26	1.90	ug/Kg
179601-23-1	m/p-Xylenes	0.48	U	0.48	3.90	ug/Kg
95-47-6	o-Xylene	0.32	U	0.32	1.90	ug/Kg
100-42-5	Styrene	0.27	U	0.27	1.90	ug/Kg
75-25-2	Bromoform	0.33	U	0.33	1.90	ug/Kg
98-82-8	Isopropylbenzene	0.30	U	0.30	1.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.47	U	0.47	1.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.66	U	0.66	1.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.60	U	0.60	1.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.56	U	0.56	1.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.71	U	0.71	1.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.10	U	1.10	1.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.20	U	1.20	1.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.1		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	47.8		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.5		38 - 136	73%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	273000	7.707			
540-36-3	1,4-Difluorobenzene	474000	8.616			
3114-55-4	Chlorobenzene-d5	327000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	83000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022287.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-2B	SDG No.:	Q1982
Lab Sample ID:	Q1982-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85
Sample Wt/Vol:	15.26 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022287.D	1		05/16/25 13:41	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown2.489	3.10	J		2.49	ug/Kg

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3	SDG No.:	Q1982
Lab Sample ID:	Q1982-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.7
Sample Wt/Vol:	11.87 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022288.D	1		05/16/25 14:04	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.53	U	0.53	2.30	ug/Kg
74-87-3	Chloromethane	0.53	U	0.53	2.30	ug/Kg
75-01-4	Vinyl Chloride	0.37	U	0.37	2.30	ug/Kg
74-83-9	Bromomethane	0.50	U	0.50	2.30	ug/Kg
75-00-3	Chloroethane	0.59	U	0.59	2.30	ug/Kg
75-69-4	Trichlorofluoromethane	0.56	U	0.56	2.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.49	U	0.49	2.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.46	U	0.46	2.30	ug/Kg
67-64-1	Acetone	3.30	J	2.20	11.6	ug/Kg
75-15-0	Carbon Disulfide	0.49	U	0.49	2.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.34	U	0.34	2.30	ug/Kg
79-20-9	Methyl Acetate	0.72	U	0.72	2.30	ug/Kg
75-09-2	Methylene Chloride	1.60	U	1.60	4.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.40	U	0.40	2.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.37	U	0.37	2.30	ug/Kg
110-82-7	Cyclohexane	0.37	U	0.37	2.30	ug/Kg
78-93-3	2-Butanone	3.00	U	3.00	11.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.45	U	0.45	2.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.35	U	0.35	2.30	ug/Kg
74-97-5	Bromochloromethane	0.53	U	0.53	2.30	ug/Kg
67-66-3	Chloroform	0.39	U	0.39	2.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.43	U	0.43	2.30	ug/Kg
108-87-2	Methylcyclohexane	0.42	U	0.42	2.30	ug/Kg
71-43-2	Benzene	0.37	U	0.37	2.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.37	U	0.37	2.30	ug/Kg
79-01-6	Trichloroethene	0.38	U	0.38	2.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.42	U	0.42	2.30	ug/Kg
75-27-4	Bromodichloromethane	0.36	U	0.36	2.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	1.70	U	1.70	11.6	ug/Kg
108-88-3	Toluene	0.36	U	0.36	2.30	ug/Kg

Raw Data: **VY022288.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3	SDG No.:	Q1982
Lab Sample ID:	Q1982-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.7
Sample Wt/Vol:	11.87 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022288.D	1		05/16/25 14:04	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.30	U	0.30	2.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.29	U	0.29	2.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.43	U	0.43	2.30	ug/Kg
591-78-6	2-Hexanone	1.70	U	1.70	11.6	ug/Kg
124-48-1	Dibromochloromethane	0.40	U	0.40	2.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.41	U	0.41	2.30	ug/Kg
127-18-4	Tetrachloroethene	0.49	U	0.49	2.30	ug/Kg
108-90-7	Chlorobenzene	0.42	U	0.42	2.30	ug/Kg
100-41-4	Ethyl Benzene	0.31	U	0.31	2.30	ug/Kg
179601-23-1	m/p-Xylenes	0.58	U	0.58	4.60	ug/Kg
95-47-6	o-Xylene	0.38	U	0.38	2.30	ug/Kg
100-42-5	Styrene	0.33	U	0.33	2.30	ug/Kg
75-25-2	Bromoform	0.40	U	0.40	2.30	ug/Kg
98-82-8	Isopropylbenzene	0.36	U	0.36	2.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.56	U	0.56	2.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.79	U	0.79	2.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.72	U	0.72	2.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	2.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.85	U	0.85	2.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.40	U	1.40	2.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.50	U	1.50	2.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.9		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	48.2		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.3		38 - 136	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	273000	7.707			
540-36-3	1,4-Difluorobenzene	474000	8.616			
3114-55-4	Chlorobenzene-d5	344000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	98700	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022288.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3	SDG No.:	Q1982
Lab Sample ID:	Q1982-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.7
Sample Wt/Vol:	11.87 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022288.D	1		05/16/25 14:04	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000107-07-3	2-Chloroethanol	3.20	J		2.48	ug/Kg

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,
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-4	SDG No.:	Q1982
Lab Sample ID:	Q1982-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.4
Sample Wt/Vol:	11.69 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022272.D	1		05/15/25 18:19	VY051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.56	U	0.56	2.40	ug/Kg
74-87-3	Chloromethane	0.56	U	0.56	2.40	ug/Kg
75-01-4	Vinyl Chloride	0.39	U	0.39	2.40	ug/Kg
74-83-9	Bromomethane	0.52	U	0.52	2.40	ug/Kg
75-00-3	Chloroethane	0.62	U	0.62	2.40	ug/Kg
75-69-4	Trichlorofluoromethane	0.59	U	0.59	2.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.52	U	0.52	2.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.49	U	0.49	2.40	ug/Kg
67-64-1	Acetone	20.5		2.30	12.2	ug/Kg
75-15-0	Carbon Disulfide	0.52	U	0.52	2.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.36	U	0.36	2.40	ug/Kg
79-20-9	Methyl Acetate	0.75	U	0.75	2.40	ug/Kg
75-09-2	Methylene Chloride	1.70	U	1.70	4.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.42	U	0.42	2.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.39	U	0.39	2.40	ug/Kg
110-82-7	Cyclohexane	0.39	U	0.39	2.40	ug/Kg
78-93-3	2-Butanone	3.20	U	3.20	12.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.47	U	0.47	2.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.37	U	0.37	2.40	ug/Kg
74-97-5	Bromochloromethane	0.56	U	0.56	2.40	ug/Kg
67-66-3	Chloroform	0.41	U	0.41	2.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.46	U	0.46	2.40	ug/Kg
108-87-2	Methylcyclohexane	0.45	U	0.45	2.40	ug/Kg
71-43-2	Benzene	0.39	U	0.39	2.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.39	U	0.39	2.40	ug/Kg
79-01-6	Trichloroethene	0.40	U	0.40	2.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.45	U	0.45	2.40	ug/Kg
75-27-4	Bromodichloromethane	0.38	U	0.38	2.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	1.80	U	1.80	12.2	ug/Kg
108-88-3	Toluene	0.38	U	0.38	2.40	ug/Kg

Raw Data: **VY022272.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-4	SDG No.:	Q1982
Lab Sample ID:	Q1982-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.4
Sample Wt/Vol:	11.69 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022272.D	1		05/15/25 18:19	VY051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.32	U	0.32	2.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.30	U	0.30	2.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	2.40	ug/Kg
591-78-6	2-Hexanone	1.80	U	1.80	12.2	ug/Kg
124-48-1	Dibromochloromethane	0.43	U	0.43	2.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.43	U	0.43	2.40	ug/Kg
127-18-4	Tetrachloroethene	0.51	U	0.51	2.40	ug/Kg
108-90-7	Chlorobenzene	0.45	U	0.45	2.40	ug/Kg
100-41-4	Ethyl Benzene	0.33	U	0.33	2.40	ug/Kg
179601-23-1	m/p-Xylenes	0.61	U	0.61	4.90	ug/Kg
95-47-6	o-Xylene	0.40	U	0.40	2.40	ug/Kg
100-42-5	Styrene	0.35	U	0.35	2.40	ug/Kg
75-25-2	Bromoform	0.42	U	0.42	2.40	ug/Kg
98-82-8	Isopropylbenzene	0.38	U	0.38	2.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.59	U	0.59	2.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.84	U	0.84	2.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.76	U	0.76	2.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.71	U	0.71	2.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.90	U	0.90	2.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.50	U	1.50	2.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.60	U	1.60	2.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.7		63 - 155	95%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	48.2		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	35.7		38 - 136	71%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	303000	7.707			
540-36-3	1,4-Difluorobenzene	528000	8.609			
3114-55-4	Chlorobenzene-d5	395000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.346			

Raw Data: **VY022272.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-4	SDG No.:	Q1982
Lab Sample ID:	Q1982-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.4
Sample Wt/Vol:	11.69 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022272.D	1		05/15/25 18:19	VY051525

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: **VY022273.D**

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

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-5	SDG No.:	Q1982
Lab Sample ID:	Q1982-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.9
Sample Wt/Vol:	10.32 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022273.D	1		05/15/25 18:43	VY051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.61	U	0.61	2.70	ug/Kg
74-87-3	Chloromethane	0.61	U	0.61	2.70	ug/Kg
75-01-4	Vinyl Chloride	0.43	U	0.43	2.70	ug/Kg
74-83-9	Bromomethane	0.58	U	0.58	2.70	ug/Kg
75-00-3	Chloroethane	0.68	U	0.68	2.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.65	U	0.65	2.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.57	U	0.57	2.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.54	U	0.54	2.70	ug/Kg
67-64-1	Acetone	9.40	J	2.60	13.5	ug/Kg
75-15-0	Carbon Disulfide	0.57	U	0.57	2.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.39	U	0.39	2.70	ug/Kg
79-20-9	Methyl Acetate	0.83	U	0.83	2.70	ug/Kg
75-09-2	Methylene Chloride	1.90	U	1.90	5.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.46	U	0.46	2.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.43	U	0.43	2.70	ug/Kg
110-82-7	Cyclohexane	0.43	U	0.43	2.70	ug/Kg
78-93-3	2-Butanone	3.50	U	3.50	13.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.52	U	0.52	2.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.40	U	0.40	2.70	ug/Kg
74-97-5	Bromochloromethane	0.62	U	0.62	2.70	ug/Kg
67-66-3	Chloroform	0.45	U	0.45	2.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	2.70	ug/Kg
108-87-2	Methylcyclohexane	0.49	U	0.49	2.70	ug/Kg
71-43-2	Benzene	0.43	U	0.43	2.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.43	U	0.43	2.70	ug/Kg
79-01-6	Trichloroethene	0.44	U	0.44	2.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.49	U	0.49	2.70	ug/Kg
75-27-4	Bromodichloromethane	0.42	U	0.42	2.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	1.90	U	1.90	13.5	ug/Kg
108-88-3	Toluene	0.42	U	0.42	2.70	ug/Kg

Raw Data: **VY022273.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-5	SDG No.:	Q1982
Lab Sample ID:	Q1982-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.9
Sample Wt/Vol:	10.32 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022273.D	1		05/15/25 18:43	VY051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.35	U	0.35	2.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.33	U	0.33	2.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	2.70	ug/Kg
591-78-6	2-Hexanone	2.00	U	2.00	13.5	ug/Kg
124-48-1	Dibromochloromethane	0.47	U	0.47	2.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.47	U	0.47	2.70	ug/Kg
127-18-4	Tetrachloroethene	0.57	U	0.57	2.70	ug/Kg
108-90-7	Chlorobenzene	0.49	U	0.49	2.70	ug/Kg
100-41-4	Ethyl Benzene	0.36	U	0.36	2.70	ug/Kg
179601-23-1	m/p-Xylenes	0.67	U	0.67	5.40	ug/Kg
95-47-6	o-Xylene	0.44	U	0.44	2.70	ug/Kg
100-42-5	Styrene	0.38	U	0.38	2.70	ug/Kg
75-25-2	Bromoform	0.46	U	0.46	2.70	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	0.42	2.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.65	U	0.65	2.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.92	U	0.92	2.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.84	U	0.84	2.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.78	U	0.78	2.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.99	U	0.99	2.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.60	U	1.60	2.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.70	U	1.70	2.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	48.8		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.8		38 - 136	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	346000	7.707			
540-36-3	1,4-Difluorobenzene	610000	8.616			
3114-55-4	Chlorobenzene-d5	492000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	189000	13.346			

Raw Data: **VY022273.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-5	SDG No.:	Q1982
Lab Sample ID:	Q1982-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.9
Sample Wt/Vol:	10.32 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022273.D	1		05/15/25 18:43	VY051525

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-6	SDG No.:	Q1982
Lab Sample ID:	Q1982-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	3.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022274.D	1		05/15/25 19:06	VY051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.00	U	2.00	9.00	ug/Kg
74-87-3	Chloromethane	2.00	U	2.00	9.00	ug/Kg
75-01-4	Vinyl Chloride	1.40	U	1.40	9.00	ug/Kg
74-83-9	Bromomethane	1.90	U	1.90	9.00	ug/Kg
75-00-3	Chloroethane	2.30	U	2.30	9.00	ug/Kg
75-69-4	Trichlorofluoromethane	2.20	U	2.20	9.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.90	U	1.90	9.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.80	U	1.80	9.00	ug/Kg
67-64-1	Acetone	16.7	J	8.50	44.8	ug/Kg
75-15-0	Carbon Disulfide	1.90	U	1.90	9.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.30	U	1.30	9.00	ug/Kg
79-20-9	Methyl Acetate	2.80	U	2.80	9.00	ug/Kg
75-09-2	Methylene Chloride	6.30	U	6.30	17.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.50	U	1.50	9.00	ug/Kg
75-34-3	1,1-Dichloroethane	1.40	U	1.40	9.00	ug/Kg
110-82-7	Cyclohexane	1.40	U	1.40	9.00	ug/Kg
78-93-3	2-Butanone	11.7	U	11.7	44.8	ug/Kg
56-23-5	Carbon Tetrachloride	1.70	U	1.70	9.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.30	U	1.30	9.00	ug/Kg
74-97-5	Bromochloromethane	2.10	U	2.10	9.00	ug/Kg
67-66-3	Chloroform	1.50	U	1.50	9.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.70	U	1.70	9.00	ug/Kg
108-87-2	Methylcyclohexane	1.60	U	1.60	9.00	ug/Kg
71-43-2	Benzene	1.40	U	1.40	9.00	ug/Kg
107-06-2	1,2-Dichloroethane	1.40	U	1.40	9.00	ug/Kg
79-01-6	Trichloroethene	1.50	U	1.50	9.00	ug/Kg
78-87-5	1,2-Dichloropropane	1.60	U	1.60	9.00	ug/Kg
75-27-4	Bromodichloromethane	1.40	U	1.40	9.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.40	U	6.40	44.8	ug/Kg
108-88-3	Toluene	1.40	U	1.40	9.00	ug/Kg

Raw Data: **VY022274.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-6	SDG No.:	Q1982
Lab Sample ID:	Q1982-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	3.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022274.D	1		05/15/25 19:06	VY051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.20	U	1.20	9.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.10	U	1.10	9.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.60	U	1.60	9.00	ug/Kg
591-78-6	2-Hexanone	6.60	U	6.60	44.8	ug/Kg
124-48-1	Dibromochloromethane	1.60	U	1.60	9.00	ug/Kg
106-93-4	1,2-Dibromoethane	1.60	U	1.60	9.00	ug/Kg
127-18-4	Tetrachloroethene	1.90	U	1.90	9.00	ug/Kg
108-90-7	Chlorobenzene	1.60	U	1.60	9.00	ug/Kg
100-41-4	Ethyl Benzene	1.20	U	1.20	9.00	ug/Kg
179601-23-1	m/p-Xylenes	2.20	U	2.20	17.9	ug/Kg
95-47-6	o-Xylene	1.50	U	1.50	9.00	ug/Kg
100-42-5	Styrene	1.30	U	1.30	9.00	ug/Kg
75-25-2	Bromoform	1.50	U	1.50	9.00	ug/Kg
98-82-8	Isopropylbenzene	1.40	U	1.40	9.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.20	U	2.20	9.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	3.10	U	3.10	9.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.80	U	2.80	9.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.60	U	2.60	9.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.30	U	3.30	9.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.30	U	5.30	9.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.70	U	5.70	9.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.4		63 - 155	91%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	48.8		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.8		38 - 136	76%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	303000	7.707			
540-36-3	1,4-Difluorobenzene	529000	8.616			
3114-55-4	Chlorobenzene-d5	407000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	139000	13.346			

Raw Data: **VY022274.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-6	SDG No.:	Q1982
Lab Sample ID:	Q1982-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	3.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022274.D	1		05/15/25 19:06	VY051525

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:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-8	SDG No.:	Q1982
Lab Sample ID:	Q1982-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	7.11 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022289.D	1		05/16/25 14:28	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.96	U	0.96	4.20	ug/Kg
74-87-3	Chloromethane	0.96	U	0.96	4.20	ug/Kg
75-01-4	Vinyl Chloride	0.66	U	0.66	4.20	ug/Kg
74-83-9	Bromomethane	0.90	U	0.90	4.20	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.89	U	0.89	4.20	ug/Kg
75-35-4	1,1-Dichloroethene	0.84	U	0.84	4.20	ug/Kg
67-64-1	Acetone	4.00	U	4.00	21.0	ug/Kg
75-15-0	Carbon Disulfide	0.89	U	0.89	4.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.61	U	0.61	4.20	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.20	ug/Kg
75-09-2	Methylene Chloride	3.00	U	3.00	8.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.72	U	0.72	4.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.67	U	0.67	4.20	ug/Kg
110-82-7	Cyclohexane	0.66	U	0.66	4.20	ug/Kg
78-93-3	2-Butanone	5.50	U	5.50	21.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.81	U	0.81	4.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.63	U	0.63	4.20	ug/Kg
74-97-5	Bromochloromethane	0.97	U	0.97	4.20	ug/Kg
67-66-3	Chloroform	0.71	U	0.71	4.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	4.20	ug/Kg
108-87-2	Methylcyclohexane	0.76	U	0.76	4.20	ug/Kg
71-43-2	Benzene	0.66	U	0.66	4.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.66	U	0.66	4.20	ug/Kg
79-01-6	Trichloroethene	0.68	U	0.68	4.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.76	U	0.76	4.20	ug/Kg
75-27-4	Bromodichloromethane	0.66	U	0.66	4.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	21.0	ug/Kg
108-88-3	Toluene	0.66	U	0.66	4.20	ug/Kg

Raw Data: **VY022289.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-8	SDG No.:	Q1982
Lab Sample ID:	Q1982-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	7.11 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022289.D	1		05/16/25 14:28	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.55	U	0.55	4.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.52	U	0.52	4.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.77	U	0.77	4.20	ug/Kg
591-78-6	2-Hexanone	3.10	U	3.10	21.0	ug/Kg
124-48-1	Dibromochloromethane	0.73	U	0.73	4.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.74	U	0.74	4.20	ug/Kg
127-18-4	Tetrachloroethene	0.88	U	0.88	4.20	ug/Kg
108-90-7	Chlorobenzene	0.76	U	0.76	4.20	ug/Kg
100-41-4	Ethyl Benzene	0.56	U	0.56	4.20	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.40	ug/Kg
95-47-6	o-Xylene	0.69	U	0.69	4.20	ug/Kg
100-42-5	Styrene	0.60	U	0.60	4.20	ug/Kg
75-25-2	Bromoform	0.72	U	0.72	4.20	ug/Kg
98-82-8	Isopropylbenzene	0.66	U	0.66	4.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.50	U	2.50	4.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.70	U	2.70	4.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.5		63 - 155	91%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	47.3		74 - 123	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.1		38 - 136	78%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	266000	7.707			
540-36-3	1,4-Difluorobenzene	468000	8.609			
3114-55-4	Chlorobenzene-d5	335000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	97100	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY022289.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-8	SDG No.:	Q1982
Lab Sample ID:	Q1982-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	7.11 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022289.D	1		05/16/25 14:28	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown2.489	4.90	J		2.49	ug/Kg

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:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-9	SDG No.:	Q1982
Lab Sample ID:	Q1982-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.3
Sample Wt/Vol:	6.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022290.D	1		05/16/25 14:51	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.75	U	0.75	4.70	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	4.70	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.95	U	0.95	4.70	ug/Kg
67-64-1	Acetone	4.50	U	4.50	23.7	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.69	U	0.69	4.70	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.70	ug/Kg
75-09-2	Methylene Chloride	3.30	U	3.30	9.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.81	U	0.81	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.76	U	0.76	4.70	ug/Kg
110-82-7	Cyclohexane	0.75	U	0.75	4.70	ug/Kg
78-93-3	2-Butanone	6.20	U	6.20	23.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.92	U	0.92	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.71	U	0.71	4.70	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.70	ug/Kg
67-66-3	Chloroform	0.79	U	0.79	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.88	U	0.88	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.86	U	0.86	4.70	ug/Kg
71-43-2	Benzene	0.75	U	0.75	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.75	U	0.75	4.70	ug/Kg
79-01-6	Trichloroethene	0.77	U	0.77	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.86	U	0.86	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.74	U	0.74	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	23.7	ug/Kg
108-88-3	Toluene	0.74	U	0.74	4.70	ug/Kg

Raw Data: **VY022290.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-9	SDG No.:	Q1982
Lab Sample ID:	Q1982-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.3
Sample Wt/Vol:	6.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022290.D	1		05/16/25 14:51	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.62	U	0.62	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.59	U	0.59	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.87	U	0.87	4.70	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	23.7	ug/Kg
124-48-1	Dibromochloromethane	0.82	U	0.82	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.83	U	0.83	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.99	U	0.99	4.70	ug/Kg
108-90-7	Chlorobenzene	0.86	U	0.86	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.50	ug/Kg
95-47-6	o-Xylene	0.78	U	0.78	4.70	ug/Kg
100-42-5	Styrene	0.67	U	0.67	4.70	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.74	U	0.74	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.3		63 - 155	95%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	47.4		74 - 123	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.2		38 - 136	72%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	264000	7.707			
540-36-3	1,4-Difluorobenzene	461000	8.61			
3114-55-4	Chlorobenzene-d5	322000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	80200	13.346			

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-9	SDG No.:	Q1982
Lab Sample ID:	Q1982-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.3
Sample Wt/Vol:	6.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022290.D	1		05/16/25 14:51	VY051625

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,
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Surrogate Summary

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1982-01	TP-1	1,2-Dichloroethane-d4	50	60.0	120	63	155
		Dibromofluoromethane	50	51.7	103	70	134
		Toluene-d8	50	49.6	99	74	123
		4-Bromofluorobenzene	50	42.7	85	38	136
Q1982-02	TP-2B	1,2-Dichloroethane-d4	50	49.1	98	63	155
		Dibromofluoromethane	50	50.3	101	70	134
		Toluene-d8	50	47.8	96	74	123
		4-Bromofluorobenzene	50	36.5	73	38	136
Q1982-03	TP-3	1,2-Dichloroethane-d4	50	47.9	96	63	155
		Dibromofluoromethane	50	49.7	99	70	134
		Toluene-d8	50	48.2	96	74	123
		4-Bromofluorobenzene	50	39.3	79	38	136
Q1982-04	TP-4	1,2-Dichloroethane-d4	50	47.7	95	63	155
		Dibromofluoromethane	50	49.0	98	70	134
		Toluene-d8	50	48.2	96	74	123
		4-Bromofluorobenzene	50	35.7	71	38	136
Q1982-05	TP-5	1,2-Dichloroethane-d4	50	49.2	98	63	155
		Dibromofluoromethane	50	49.3	99	70	134
		Toluene-d8	50	48.8	98	74	123
		4-Bromofluorobenzene	50	41.8	84	38	136
Q1982-06	TP-6	1,2-Dichloroethane-d4	50	45.4	91	63	155
		Dibromofluoromethane	50	49.6	99	70	134
		Toluene-d8	50	48.8	98	74	123
		4-Bromofluorobenzene	50	37.9	76	38	136
Q1982-07	TP-8	1,2-Dichloroethane-d4	50	45.5	91	63	155
		Dibromofluoromethane	50	48.5	97	70	134
		Toluene-d8	50	47.3	95	74	123
		4-Bromofluorobenzene	50	39.1	78	38	136
Q1982-08	TP-9	1,2-Dichloroethane-d4	50	47.3	95	63	155
		Dibromofluoromethane	50	50.0	100	70	134
		Toluene-d8	50	47.4	95	74	123
		4-Bromofluorobenzene	50	36.2	72	38	136
VY0515SBL01	VY0515SBL01	1,2-Dichloroethane-d4	50	42.8	86	63	155
		Dibromofluoromethane	50	48.3	97	70	134
		Toluene-d8	50	48.7	97	74	123
		4-Bromofluorobenzene	50	39.8	80	38	136
VY0515SBS01	VY0515SBS01	1,2-Dichloroethane-d4	50	51.2	102	63	155
		Dibromofluoromethane	50	51.1	102	70	134
		Toluene-d8	50	51.3	103	74	123
		4-Bromofluorobenzene	50	50.2	100	38	136
VY0515SBSD01	VY0515SBSD01	1,2-Dichloroethane-d4	50	51.9	104	63	155
		Dibromofluoromethane	50	51.4	103	70	134
		Toluene-d8	50	51.2	102	74	123
		4-Bromofluorobenzene	50	50.4	101	38	136
VY0516SBL01	VY0516SBL01	1,2-Dichloroethane-d4	50	43.9	88	63	155
		Dibromofluoromethane	50	48.0	96	70	134
		Toluene-d8	50	48.8	98	74	123
		4-Bromofluorobenzene	50	48.5	97	38	136
VY0516SBS01	VY0516SBS01	1,2-Dichloroethane-d4	50	51.1	102	63	155
		Dibromofluoromethane	50	50.8	102	70	134

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Surrogate Summary

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VY0516SBS01	VY0516SBS01	Toluene-d8	50	50.9	102	74	123
		4-Bromofluorobenzene	50	49.4	99	38	136

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022262.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0515SBS01	Dichlorodifluoromethane	20	22.3	ug/Kg	112			64	136	
	Chloromethane	20	24.4	ug/Kg	122			70	130	
	Vinyl chloride	20	23.6	ug/Kg	118			72	129	
	Bromomethane	20	24.8	ug/Kg	124			58	141	
	Chloroethane	20	22.8	ug/Kg	114			69	130	
	Trichlorofluoromethane	20	22.9	ug/Kg	115			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.2	ug/Kg	106			81	123	
	1,1-Dichloroethene	20	21.4	ug/Kg	107			79	121	
	Acetone	100	100	ug/Kg	100			60	131	
	Carbon disulfide	20	21.4	ug/Kg	107			45	154	
	Methyl tert-butyl Ether	20	20.4	ug/Kg	102			77	129	
	Methyl Acetate	20	19.1	ug/Kg	96			69	149	
	Methylene Chloride	20	21.3	ug/Kg	106			56	174	
	trans-1,2-Dichloroethene	20	20.5	ug/Kg	103			80	123	
	1,1-Dichloroethane	20	20.7	ug/Kg	104			82	123	
	Cyclohexane	20	21.0	ug/Kg	105			76	122	
	2-Butanone	100	98.4	ug/Kg	98			69	131	
	Carbon Tetrachloride	20	20.4	ug/Kg	102			76	129	
	cis-1,2-Dichloroethene	20	20.9	ug/Kg	104			82	123	
	Bromochloromethane	20	20.9	ug/Kg	104			80	127	
	Chloroform	20	21.2	ug/Kg	106			82	125	
	1,1,1-Trichloroethane	20	21.1	ug/Kg	106			80	126	
	Methylcyclohexane	20	21.1	ug/Kg	106			77	123	
	Benzene	20	20.8	ug/Kg	104			84	121	
	1,2-Dichloroethane	20	20.4	ug/Kg	102			81	126	
	Trichloroethene	20	20.6	ug/Kg	103			83	122	
	1,2-Dichloropropane	20	20.4	ug/Kg	102			83	122	
	Bromodichloromethane	20	20.8	ug/Kg	104			82	123	
	4-Methyl-2-Pentanone	100	98.1	ug/Kg	98			70	135	
	Toluene	20	20.1	ug/Kg	101			83	122	
	t-1,3-Dichloropropene	20	19.9	ug/Kg	100			78	124	
	cis-1,3-Dichloropropene	20	20.6	ug/Kg	103			81	122	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			82	125	
	2-Hexanone	100	96.4	ug/Kg	96			66	138	
	Dibromochloromethane	20	20.7	ug/Kg	104			79	125	
	1,2-Dibromoethane	20	20.1	ug/Kg	101			80	125	
	Tetrachloroethene	20	19.9	ug/Kg	100			83	125	
	Chlorobenzene	20	20.3	ug/Kg	102			84	122	
	Ethyl Benzene	20	20.1	ug/Kg	101			82	124	
	m/p-Xylenes	40	39.8	ug/Kg	100			83	124	
	o-Xylene	20	19.9	ug/Kg	100			83	123	
	Styrene	20	19.8	ug/Kg	99			82	124	
	Bromoform	20	19.8	ug/Kg	99			75	127	
	Isopropylbenzene	20	20.2	ug/Kg	101			82	124	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/Kg	101			77	127	
	1,3-Dichlorobenzene	20	19.6	ug/Kg	98			83	122	
	1,4-Dichlorobenzene	20	19.9	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	20	19.7	ug/Kg	99			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022262.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0515SBS01	1,2-Dibromo-3-Chloropropane	20	20.7	ug/Kg	104			66	134	
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99			78	127	
	1,2,3-Trichlorobenzene	20	19.4	ug/Kg	97			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022263.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0515SBSD01	Dichlorodifluoromethane	20	21.3	ug/Kg	106	6		64	136	20
	Chloromethane	20	23.0	ug/Kg	115	6		70	130	20
	Vinyl chloride	20	22.8	ug/Kg	114	3		72	129	20
	Bromomethane	20	24.3	ug/Kg	121	2		58	141	20
	Chloroethane	20	22.4	ug/Kg	112	2		69	130	20
	Trichlorofluoromethane	20	22.1	ug/Kg	111	4		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.7	ug/Kg	104	2		81	123	20
	1,1-Dichloroethene	20	20.0	ug/Kg	100	7		79	121	20
	Acetone	100	100	ug/Kg	100	0		60	131	20
	Carbon disulfide	20	20.5	ug/Kg	103	4		45	154	20
	Methyl tert-butyl Ether	20	21.0	ug/Kg	105	3		77	129	20
	Methyl Acetate	20	21.3	ug/Kg	106	10		69	149	20
	Methylene Chloride	20	21.3	ug/Kg	106	0		56	174	20
	trans-1,2-Dichloroethene	20	20.7	ug/Kg	104	1		80	123	20
	1,1-Dichloroethane	20	20.3	ug/Kg	102	2		82	123	20
	Cyclohexane	20	19.9	ug/Kg	100	5		76	122	20
	2-Butanone	100	100	ug/Kg	100	2		69	131	20
	Carbon Tetrachloride	20	19.8	ug/Kg	99	3		76	129	20
	cis-1,2-Dichloroethene	20	20.1	ug/Kg	101	3		82	123	20
	Bromochloromethane	20	20.3	ug/Kg	102	2		80	127	20
	Chloroform	20	20.5	ug/Kg	103	3		82	125	20
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101	5		80	126	20
	Methylcyclohexane	20	20.0	ug/Kg	100	6		77	123	20
	Benzene	20	20.0	ug/Kg	100	4		84	121	20
	1,2-Dichloroethane	20	20.4	ug/Kg	102	0		81	126	20
	Trichloroethene	20	19.8	ug/Kg	99	4		83	122	20
	1,2-Dichloropropane	20	19.9	ug/Kg	100	2		83	122	20
	Bromodichloromethane	20	20.3	ug/Kg	102	2		82	123	20
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	12		70	135	20
	Toluene	20	19.5	ug/Kg	98	3		83	122	20
	t-1,3-Dichloropropene	20	19.9	ug/Kg	100	0		78	124	20
	cis-1,3-Dichloropropene	20	19.9	ug/Kg	100	3		81	122	20
	1,1,2-Trichloroethane	20	20.6	ug/Kg	103	2		82	125	20
	2-Hexanone	100	100	ug/Kg	100	4		66	138	20
	Dibromochloromethane	20	20.4	ug/Kg	102	2		79	125	20
	1,2-Dibromoethane	20	20.5	ug/Kg	103	2		80	125	20
	Tetrachloroethene	20	19.9	ug/Kg	100	0		83	125	20
	Chlorobenzene	20	20.0	ug/Kg	100	2		84	122	20
	Ethyl Benzene	20	19.6	ug/Kg	98	3		82	124	20
	m/p-Xylenes	40	39.1	ug/Kg	98	2		83	124	20
	o-Xylene	20	19.7	ug/Kg	99	1		83	123	20
	Styrene	20	19.4	ug/Kg	97	2		82	124	20
	Bromoform	20	20.6	ug/Kg	103	4		75	127	20
	Isopropylbenzene	20	19.6	ug/Kg	98	3		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.3	ug/Kg	106	5		77	127	20
	1,3-Dichlorobenzene	20	19.3	ug/Kg	97	1		83	122	20
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100	0		84	121	20
	1,2-Dichlorobenzene	20	20.0	ug/Kg	100	1		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022263.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0515SBSD01	1,2-Dibromo-3-Chloropropane	20	21.4	ug/Kg	107	3		66	134	20
	1,2,4-Trichlorobenzene	20	20.6	ug/Kg	103	4		78	127	20
	1,2,3-Trichlorobenzene	20	21.0	ug/Kg	105	8		70	137	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022279.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0516SBS01	Dichlorodifluoromethane	20	21.1	ug/Kg	106			64	136	
	Chloromethane	20	24.4	ug/Kg	122			70	130	
	Vinyl chloride	20	24.1	ug/Kg	121			72	129	
	Bromomethane	20	26.5	ug/Kg	133			58	141	
	Chloroethane	20	24.7	ug/Kg	124			69	130	
	Trichlorofluoromethane	20	22.2	ug/Kg	111			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/Kg	105			81	123	
	1,1-Dichloroethene	20	20.8	ug/Kg	104			79	121	
	Acetone	100	85.5	ug/Kg	86			60	131	
	Carbon disulfide	20	20.7	ug/Kg	104			45	154	
	Methyl tert-butyl Ether	20	20.3	ug/Kg	102			77	129	
	Methyl Acetate	20	19.8	ug/Kg	99			69	149	
	Methylene Chloride	20	20.0	ug/Kg	100			56	174	
	trans-1,2-Dichloroethene	20	20.5	ug/Kg	103			80	123	
	1,1-Dichloroethane	20	20.3	ug/Kg	102			82	123	
	Cyclohexane	20	19.8	ug/Kg	99			76	122	
	2-Butanone	100	91.5	ug/Kg	92			69	131	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			76	129	
	cis-1,2-Dichloroethene	20	20.6	ug/Kg	103			82	123	
	Bromochloromethane	20	19.7	ug/Kg	99			80	127	
	Chloroform	20	20.9	ug/Kg	104			82	125	
	1,1,1-Trichloroethane	20	20.6	ug/Kg	103			80	126	
	Methylcyclohexane	20	19.6	ug/Kg	98			77	123	
	Benzene	20	20.1	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	20.1	ug/Kg	101			81	126	
	Trichloroethene	20	20.4	ug/Kg	102			83	122	
	1,2-Dichloropropane	20	19.4	ug/Kg	97			83	122	
	Bromodichloromethane	20	20.2	ug/Kg	101			82	123	
	4-Methyl-2-Pentanone	100	90.9	ug/Kg	91			70	135	
	Toluene	20	19.5	ug/Kg	98			83	122	
	t-1,3-Dichloropropene	20	18.9	ug/Kg	95			78	124	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			81	122	
	1,1,2-Trichloroethane	20	19.7	ug/Kg	99			82	125	
	2-Hexanone	100	89.2	ug/Kg	89			66	138	
	Dibromochloromethane	20	19.6	ug/Kg	98			79	125	
	1,2-Dibromoethane	20	19.8	ug/Kg	99			80	125	
	Tetrachloroethene	20	19.8	ug/Kg	99			83	125	
	Chlorobenzene	20	19.7	ug/Kg	99			84	122	
	Ethyl Benzene	20	19.0	ug/Kg	95			82	124	
	m/p-Xylenes	40	38.4	ug/Kg	96			83	124	
	o-Xylene	20	19.4	ug/Kg	97			83	123	
	Styrene	20	18.9	ug/Kg	95			82	124	
	Bromoform	20	18.4	ug/Kg	92			75	127	
	Isopropylbenzene	20	19.3	ug/Kg	97			82	124	
	1,1,2,2-Tetrachloroethane	20	19.1	ug/Kg	96			77	127	
	1,3-Dichlorobenzene	20	18.4	ug/Kg	92			83	122	
	1,4-Dichlorobenzene	20	18.9	ug/Kg	95			84	121	
	1,2-Dichlorobenzene	20	19.1	ug/Kg	96			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022279.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0516SBS01	1,2-Dibromo-3-Chloropropane	20	19.0	ug/Kg	95			66	134	
	1,2,4-Trichlorobenzene	20	19.3	ug/Kg	97			78	127	
	1,2,3-Trichlorobenzene	20	18.7	ug/Kg	94			70	137	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0515SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: VY022261.D Lab Sample ID: VY0515SBL01

Date Analyzed: 05/15/2025 Time Analyzed: 13:44

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
VY0515SBS01	VY0515SBS01	VY022262.D	05/15/2025
VY0515SBSD01	VY0515SBSD01	VY022263.D	05/15/2025
TP-4	Q1982-04	VY022272.D	05/15/2025
TP-5	Q1982-05	VY022273.D	05/15/2025
TP-6	Q1982-06	VY022274.D	05/15/2025

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0516SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: VY022278.D Lab Sample ID: VY0516SBL01

Date Analyzed: 05/16/2025 Time Analyzed: 09:37

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
VY0516SBS01	VY0516SBS01	VY022279.D	05/16/2025
TP-1	Q1982-01	VY022286.D	05/16/2025
TP-2B	Q1982-02	VY022287.D	05/16/2025
TP-3	Q1982-03	VY022288.D	05/16/2025
TP-8	Q1982-07	VY022289.D	05/16/2025
TP-9	Q1982-08	VY022290.D	05/16/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: VY022252.D BFB Injection Date: 05/15/2025

Instrument ID: MSVOA_Y BFB Injection Time: 07:52

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24
75	30.0 - 60.0% of mass 95	55.9
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	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	80.5
175	5.0 - 9.0% of mass 174	5.9 (7.3) 1
176	95.0 - 101.0% of mass 174	77.5 (96.3) 1
177	5.0 - 9.0% of mass 176	5.3 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY022253.D	05/15/2025	09:46
VSTDICC010	VSTDICC010	VY022254.D	05/15/2025	10:16
VSTDICC020	VSTDICC020	VY022255.D	05/15/2025	10:39
VSTDICCC050	VSTDICCC050	VY022256.D	05/15/2025	11:02
VSTDICC100	VSTDICC100	VY022257.D	05/15/2025	11:24
VSTDICC150	VSTDICC150	VY022258.D	05/15/2025	11:47
VY0515SBL01	VY0515SBL01	VY022261.D	05/15/2025	13:44
VY0515SBS01	VY0515SBS01	VY022262.D	05/15/2025	14:07
VY0515SBSD01	VY0515SBSD01	VY022263.D	05/15/2025	14:29
TP-4	Q1982-04	VY022272.D	05/15/2025	18:19
TP-5	Q1982-05	VY022273.D	05/15/2025	18:43
TP-6	Q1982-06	VY022274.D	05/15/2025	19:06

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: VY022276.D BFB Injection Date: 05/16/2025

Instrument ID: MSVOA_Y BFB Injection Time: 07:54

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	25.1
75	30.0 - 60.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.9 (1) 1
174	50.0 - 100.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.2 (7.4) 1
176	95.0 - 101.0% of mass 174	81.9 (98.3) 1
177	5.0 - 9.0% of mass 176	5.6 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022277.D	05/16/2025	08:24
VY0516SBL01	VY0516SBL01	VY022278.D	05/16/2025	09:37
VY0516SBS01	VY0516SBS01	VY022279.D	05/16/2025	10:09
TP-1	Q1982-01	VY022286.D	05/16/2025	13:17
TP-2B	Q1982-02	VY022287.D	05/16/2025	13:41
TP-3	Q1982-03	VY022288.D	05/16/2025	14:04
TP-8	Q1982-07	VY022289.D	05/16/2025	14:28
TP-9	Q1982-08	VY022290.D	05/16/2025	14:51

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: VY022256.D Date Analyzed: 05/15/2025

Instrument ID: MSVOA_Y Time Analyzed: 11:02

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	267598	7.71	439323	8.62	377571	11.41
UPPER LIMIT	535196	8.207	878646	9.116	755142	11.914
LOWER LIMIT	133799	7.207	219662	8.116	188786	10.914
EPA SAMPLE NO.						
TP-4	303248	7.71	528458	8.61	395320	11.41
TP-5	345998	7.71	610490	8.62	492184	11.41
TP-6	302935	7.71	529384	8.62	407189	11.41
VY0515SBL01	357935	7.71	617938	8.62	477752	11.41
VY0515SBS01	240556	7.71	405751	8.62	344872	11.41
VY0515SBSD01	238919	7.71	402031	8.62	341987	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: VY022256.D Date Analyzed: 05/15/2025

Instrument ID: MSVOA_Y Time Analyzed: 11:02

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

	IS4 AREA #	RT #				
12 HOUR STD	180358	13.346				
UPPER LIMIT	360716	13.846				
LOWER LIMIT	90179	12.846				
EPA SAMPLE NO.						
TP-4	123883	13.35				
TP-5	188552	13.35				
TP-6	138768	13.35				
VY0515SBL01	173912	13.35				
VY0515SBS01	163448	13.35				
VY0515SBSD01	161126	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: VY022277.D Date Analyzed: 05/16/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:24

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	212993	7.71	356583	8.62	305829	11.42
UPPER LIMIT	425986	8.207	713166	9.115	611658	11.92
LOWER LIMIT	106497	7.207	178292	8.115	152915	10.92
EPA SAMPLE NO.						
TP-1	279736	7.71	499229	8.61	412738	11.41
TP-2B	272623	7.71	473712	8.62	327253	11.41
TP-3	273129	7.71	474491	8.62	343745	11.41
TP-8	265944	7.71	467527	8.61	335264	11.41
TP-9	263964	7.71	460977	8.61	322155	11.41
VY0516SBL01	314347	7.71	555500	8.62	426459	11.42
VY0516SBS01	205076	7.71	351708	8.62	300126	11.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: VY022277.D Date Analyzed: 05/16/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:24

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

	IS4 AREA #	RT #				
12 HOUR STD	144477	13.346				
UPPER LIMIT	288954	13.846				
LOWER LIMIT	72238.5	12.846				
EPA SAMPLE NO.						
TP-1	154433	13.35				
TP-2B	82963	13.35				
TP-3	98736	13.35				
TP-8	97059	13.35				
TP-9	80191	13.35				
VY0516SBL01	151389	13.35				
VY0516SBS01	141210	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

QC SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0515SBL01	SDG No.:	Q1982
Lab Sample ID:	VY0515SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022261.D	1		05/15/25 13:44	VY051525

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0515SBL01	SDG No.:	Q1982
Lab Sample ID:	VY0515SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022261.D	1		05/15/25 13:44	VY051525

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	42.8		63 - 155	86%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	48.7		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.8		38 - 136	80%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	358000	7.707			
540-36-3	1,4-Difluorobenzene	618000	8.616			
3114-55-4	Chlorobenzene-d5	478000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	174000	13.347			

Raw Data: **VY022261.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0515SBL01	SDG No.:	Q1982
Lab Sample ID:	VY0515SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022261.D	1		05/15/25 13:44	VY051525

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0516SBL01	SDG No.:	Q1982
Lab Sample ID:	VY0516SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022278.D	1		05/16/25 09:37	VY051625

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0516SBL01	SDG No.:	Q1982
Lab Sample ID:	VY0516SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022278.D	1		05/16/25 09:37	VY051625

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	43.9		63 - 155	88%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	48.8		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		38 - 136	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	314000	7.707			
540-36-3	1,4-Difluorobenzene	556000	8.616			
3114-55-4	Chlorobenzene-d5	426000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.347			

Raw Data: **VY022278.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0516SBL01	SDG No.:	Q1982
Lab Sample ID:	VY0516SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022278.D	1		05/16/25 09:37	VY051625

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
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0515SBS01	SDG No.:	Q1982
Lab Sample ID:	VY0515SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022262.D	1		05/15/25 14:07	VY051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	24.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	23.6		0.79	5.00	ug/Kg
74-83-9	Bromomethane	24.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	22.8		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.4		1.00	5.00	ug/Kg
67-64-1	Acetone	100		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.4		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.4		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	19.1		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	21.3		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.5		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.7		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.0		0.79	5.00	ug/Kg
78-93-3	2-Butanone	98.4		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.4		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.9		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.9		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.2		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	21.1		0.91	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.6		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.4		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	98.1		3.60	25.0	ug/Kg
108-88-3	Toluene	20.1		0.78	5.00	ug/Kg

Raw Data: **VY022262.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0515SBS01	SDG No.:	Q1982
Lab Sample ID:	VY0515SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022262.D	1		05/15/25 14:07	VY051525

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	20.6		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	96.4		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.7		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.1		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.3		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.8		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.9		0.82	5.00	ug/Kg
100-42-5	Styrene	19.8		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.8		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.2		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.6		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.9		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	20.7		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.8		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.4		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.2		63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	51.3		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		38 - 136	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	241000	7.707			
540-36-3	1,4-Difluorobenzene	406000	8.616			
3114-55-4	Chlorobenzene-d5	345000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	163000	13.346			

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0515SBS01	SDG No.:	Q1982
Lab Sample ID:	VY0515SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022262.D	1		05/15/25 14:07	VY051525

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0516SBS01	SDG No.:	Q1982
Lab Sample ID:	VY0516SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022279.D	1		05/16/25 10:09	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.1		1.10	5.00	ug/Kg
74-87-3	Chloromethane	24.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	24.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	26.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	24.7		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.2		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.8		1.00	5.00	ug/Kg
67-64-1	Acetone	85.5		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.7		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	19.8		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.5		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	19.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	91.5		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.6		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.7		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	20.6		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.1		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.1		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.4		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	90.9		3.60	25.0	ug/Kg
108-88-3	Toluene	19.5		0.78	5.00	ug/Kg

Raw Data: **VY022279.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0516SBS01	SDG No.:	Q1982
Lab Sample ID:	VY0516SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022279.D	1		05/16/25 10:09	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.9		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	89.2		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.6		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.8		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.7		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.0		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.4		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.82	5.00	ug/Kg
100-42-5	Styrene	18.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.4		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.4		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	18.9		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.3		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.7		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	50.9		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		38 - 136	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	205000	7.707			
540-36-3	1,4-Difluorobenzene	352000	8.616			
3114-55-4	Chlorobenzene-d5	300000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.346			

Raw Data: **VY022279.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0516SBS01	SDG No.:	Q1982
Lab Sample ID:	VY0516SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022279.D	1		05/16/25 10:09	VY051625

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

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0515SBSD01	SDG No.:	Q1982
Lab Sample ID:	VY0515SBSD01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022263.D	1		05/15/25 14:29	VY051525

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	23.0		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	22.8		0.79	5.00	ug/Kg
74-83-9	Bromomethane	24.3		1.10	5.00	ug/Kg
75-00-3	Chloroethane	22.4		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.1		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.7		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.0		1.00	5.00	ug/Kg
67-64-1	Acetone	100		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.5		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	21.3		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	21.3		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.7		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	19.9		0.79	5.00	ug/Kg
78-93-3	2-Butanone	100		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		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	20.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.5		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.0		0.91	5.00	ug/Kg
71-43-2	Benzene	20.0		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	19.8		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.9		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		3.60	25.0	ug/Kg
108-88-3	Toluene	19.5		0.78	5.00	ug/Kg

Raw Data: **VY022263.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0515SBSD01	SDG No.:	Q1982
Lab Sample ID:	VY0515SBSD01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022263.D	1		05/15/25 14:29	VY051525

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	19.9		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.6		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.5		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.0		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.6		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.1		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.7		0.82	5.00	ug/Kg
100-42-5	Styrene	19.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.6		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.6		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.3		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.3		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.0		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.4		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.6		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.9		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	51.2		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		38 - 136	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	239000	7.707			
540-36-3	1,4-Difluorobenzene	402000	8.616			
3114-55-4	Chlorobenzene-d5	342000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	161000	13.346			

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0515SBSD01	SDG No.:	Q1982
Lab Sample ID:	VY0515SBSD01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022263.D	1		05/15/25 14:29	VY051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG No.: Q1982

Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47

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

LAB FILE ID: RRF005 = VY022253.D RRF010 = VY022254.D RRF020 = VY022255.D
RRF050 = VY022256.D RRF100 = VY022257.D RRF150 = VY022258.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.546	0.587	0.541	0.507	0.470	0.479	0.522	8.5
Chloromethane	1.212	1.237	1.153	1.042	1.046	0.894	1.097	11.7
Vinyl Chloride	1.265	1.317	1.264	1.210	1.190	1.110	1.226	5.9
Bromomethane	1.107	1.033	1.058	0.877	0.955	0.959	0.998	8.3
Chloroethane	0.751	0.814	0.796	0.756	0.733	0.727	0.763	4.6
Trichlorofluoromethane	1.254	1.292	1.260	1.214	1.211	1.217	1.241	2.6
1,1,2-Trichlorotrifluoroethane	0.548	0.577	0.544	0.538	0.507	0.520	0.539	4.5
1,1-Dichloroethene	0.545	0.544	0.540	0.539	0.518	0.523	0.535	2.2
Acetone	0.126	0.114	0.096	0.093	0.094	0.092	0.102	13.6
Carbon Disulfide	1.768	1.822	1.764	1.753	1.679	1.679	1.744	3.2
Methyl tert-butyl Ether	1.463	1.523	1.393	1.459	1.504	1.507	1.475	3.2
Methyl Acetate	0.349	0.308	0.286	0.302	0.346	0.347	0.323	8.6
Methylene Chloride	0.797	0.811	0.646	0.597	0.570	0.552	0.662	17.3
trans-1,2-Dichloroethene	0.577	0.609	0.603	0.592	0.580	0.581	0.590	2.2
1,1-Dichloroethane	1.112	1.136	1.099	1.117	1.093	1.082	1.106	1.7
Cyclohexane	1.300	1.191	1.077	1.055	0.998	1.011	1.105	10.6
2-Butanone	0.180	0.181	0.158	0.161	0.174	0.174	0.171	5.6
Carbon Tetrachloride	0.485	0.524	0.494	0.516	0.509	0.524	0.509	3.2
cis-1,2-Dichloroethene	0.662	0.687	0.668	0.691	0.687	0.693	0.681	1.9
Bromochloromethane	0.463	0.484	0.467	0.473	0.469	0.476	0.472	1.6
Chloroform	1.032	1.079	1.067	1.079	1.054	1.057	1.061	1.7
1,1,1-Trichloroethane	1.007	0.997	0.960	0.969	0.944	0.964	0.974	2.4
Methylcyclohexane	0.664	0.678	0.645	0.670	0.639	0.667	0.660	2.3
Benzene	1.369	1.462	1.435	1.499	1.482	1.496	1.457	3.4
1,2-Dichloroethane	0.381	0.399	0.378	0.402	0.403	0.402	0.394	2.9
Trichloroethene	0.358	0.366	0.361	0.371	0.356	0.363	0.362	1.5
1,2-Dichloropropane	0.337	0.361	0.344	0.357	0.354	0.355	0.351	2.6
Bromodichloromethane	0.466	0.494	0.476	0.506	0.504	0.504	0.492	3.4
4-Methyl-2-Pentanone	0.238	0.247	0.230	0.253	0.275	0.275	0.253	7.4
Toluene	0.871	0.924	0.890	0.944	0.947	0.961	0.923	3.8

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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG No.: Q1982

Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47

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

LAB FILE ID: RRF005 = VY022253.D RRF010 = VY022254.D RRF020 = VY022255.D
RRF050 = VY022256.D RRF100 = VY022257.D RRF150 = VY022258.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.464	0.473	0.457	0.487	0.498	0.499	0.480	3.7
cis-1,3-Dichloropropene	0.523	0.548	0.535	0.562	0.562	0.568	0.550	3.2
1,1,2-Trichloroethane	0.241	0.243	0.232	0.243	0.248	0.249	0.243	2.4
2-Hexanone	0.167	0.167	0.151	0.166	0.183	0.185	0.170	7.4
Dibromochloromethane	0.296	0.314	0.298	0.323	0.329	0.330	0.315	4.9
1,2-Dibromoethane	0.221	0.228	0.214	0.227	0.234	0.232	0.226	3.2
Tetrachloroethene	0.474	0.481	0.470	0.474	0.446	0.429	0.462	4.4
Chlorobenzene	1.112	1.110	1.106	1.154	1.143	1.143	1.128	1.9
Ethyl Benzene	2.014	2.043	2.049	2.175	2.173	2.222	2.113	4.1
m/p-Xylenes	0.749	0.770	0.763	0.818	0.825	0.852	0.796	5.2
o-Xylene	0.704	0.741	0.723	0.768	0.782	0.802	0.753	4.9
Styrene	1.182	1.214	1.210	1.303	1.335	1.380	1.270	6.3
Bromoform	0.202	0.214	0.194	0.209	0.219	0.217	0.209	4.5
Isopropylbenzene	4.157	4.192	4.100	4.197	4.028	4.181	4.142	1.6
1,1,2,2-Tetrachloroethane	0.656	0.647	0.581	0.628	0.645	0.666	0.637	4.8
1,3-Dichlorobenzene	1.757	1.774	1.715	1.838	1.839	1.914	1.806	4
1,4-Dichlorobenzene	1.759	1.765	1.706	1.750	1.723	1.720	1.737	1.4
1,2-Dichlorobenzene	1.526	1.520	1.479	1.534	1.520	1.523	1.517	1.3
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.093	0.100	0.109	0.104	0.103	5.7
1,2,4-Trichlorobenzene	0.860	0.845	0.848	0.900	0.904	0.902	0.876	3.2
1,2,3-Trichlorobenzene	0.753	0.721	0.702	0.752	0.777	0.756	0.743	3.6
1,2-Dichloroethane-d4	0.547	0.559	0.527	0.541	0.545	0.560	0.546	2.2
Dibromofluoromethane	0.294	0.294	0.294	0.301	0.297	0.310	0.298	2.2
Toluene-d8	1.224	1.200	1.195	1.230	1.214	1.272	1.222	2.3
4-Bromofluorobenzene	0.390	0.386	0.368	0.387	0.387	0.407	0.387	3.3

* 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 CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG No.: Q1982

Instrument ID: MSVOA_Y Calibration Date/Time: 05/16/2025 08:24

Lab File ID: VY022277.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.522	0.521		-0.19	20
Chloromethane	1.097	1.067	0.1	-2.73	20
Vinyl Chloride	1.226	1.343		9.54	20
Bromomethane	0.998	1.071		7.32	20
Chloroethane	0.763	0.887		16.25	20
Trichlorofluoromethane	1.241	1.308		5.4	20
1,1,2-Trichlorotrifluoroethane	0.539	0.569		5.57	20
1,1-Dichloroethene	0.535	0.570		6.54	20
Acetone	0.102	0.103		0.98	20
Carbon Disulfide	1.744	1.850		6.08	20
Methyl tert-butyl Ether	1.475	1.543		4.61	20
Methyl Acetate	0.323	0.324		0.31	20
Methylene Chloride	0.662	0.631		-4.68	20
trans-1,2-Dichloroethene	0.590	0.626		6.1	20
1,1-Dichloroethane	1.106	1.172	0.1	5.97	20
Cyclohexane	1.105	1.093		-1.09	20
2-Butanone	0.171	0.166		-2.92	20
Carbon Tetrachloride	0.509	0.537		5.5	20
cis-1,2-Dichloroethene	0.681	0.737		8.22	20
Bromochloromethane	0.472	0.487		3.18	20
Chloroform	1.061	1.161		9.43	20
1,1,1-Trichloroethane	0.974	1.038		6.57	20
Methylcyclohexane	0.660	0.680		3.03	20
Benzene	1.457	1.567		7.55	20
1,2-Dichloroethane	0.394	0.417		5.84	20
Trichloroethene	0.362	0.381		5.25	20
1,2-Dichloropropane	0.351	0.371		5.7	20
Bromodichloromethane	0.492	0.533		8.33	20
4-Methyl-2-Pentanone	0.253	0.250		-1.19	20
Toluene	0.923	0.982		6.39	20
t-1,3-Dichloropropene	0.480	0.500		4.17	20
cis-1,3-Dichloropropene	0.550	0.587		6.73	20
1,1,2-Trichloroethane	0.243	0.254		4.53	20
2-Hexanone	0.170	0.165		-2.94	20
Dibromochloromethane	0.315	0.338		7.3	20
1,2-Dibromoethane	0.226	0.238		5.31	20
Tetrachloroethene	0.462	0.477		3.25	20
Chlorobenzene	1.128	1.200	0.3	6.38	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG No.: Q1982

Instrument ID: MSVOA_Y Calibration Date/Time: 05/16/2025 08:24

Lab File ID: VY022277.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.113	2.235		5.77	20
m/p-Xylenes	0.796	0.848		6.53	20
o-Xylene	0.753	0.804		6.77	20
Styrene	1.270	1.355		6.69	20
Bromoform	0.209	0.214	0.1	2.39	20
Isopropylbenzene	4.142	4.419		6.69	20
1,1,2,2-Tetrachloroethane	0.637	0.651	0.3	2.2	20
1,3-Dichlorobenzene	1.806	1.921		6.37	20
1,4-Dichlorobenzene	1.737	1.826		5.12	20
1,2-Dichlorobenzene	1.517	1.596		5.21	20
1,2-Dibromo-3-Chloropropane	0.103	0.104		0.97	20
1,2,4-Trichlorobenzene	0.876	0.929		6.05	20
1,2,3-Trichlorobenzene	0.743	0.768		3.37	20
1,2-Dichloroethane-d4	0.546	0.552		1.1	20
Dibromofluoromethane	0.298	0.308		3.36	20
Toluene-d8	1.222	1.265		3.52	20
4-Bromofluorobenzene	0.387	0.388		0.26	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\VY051625\
Data File : VY022286.D
Acq On : 16 May 2025 13:17
Operator : SY/MD
Sample : Q1982-01
Misc : 15.93g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-1

Quant Time: May 17 01:32:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

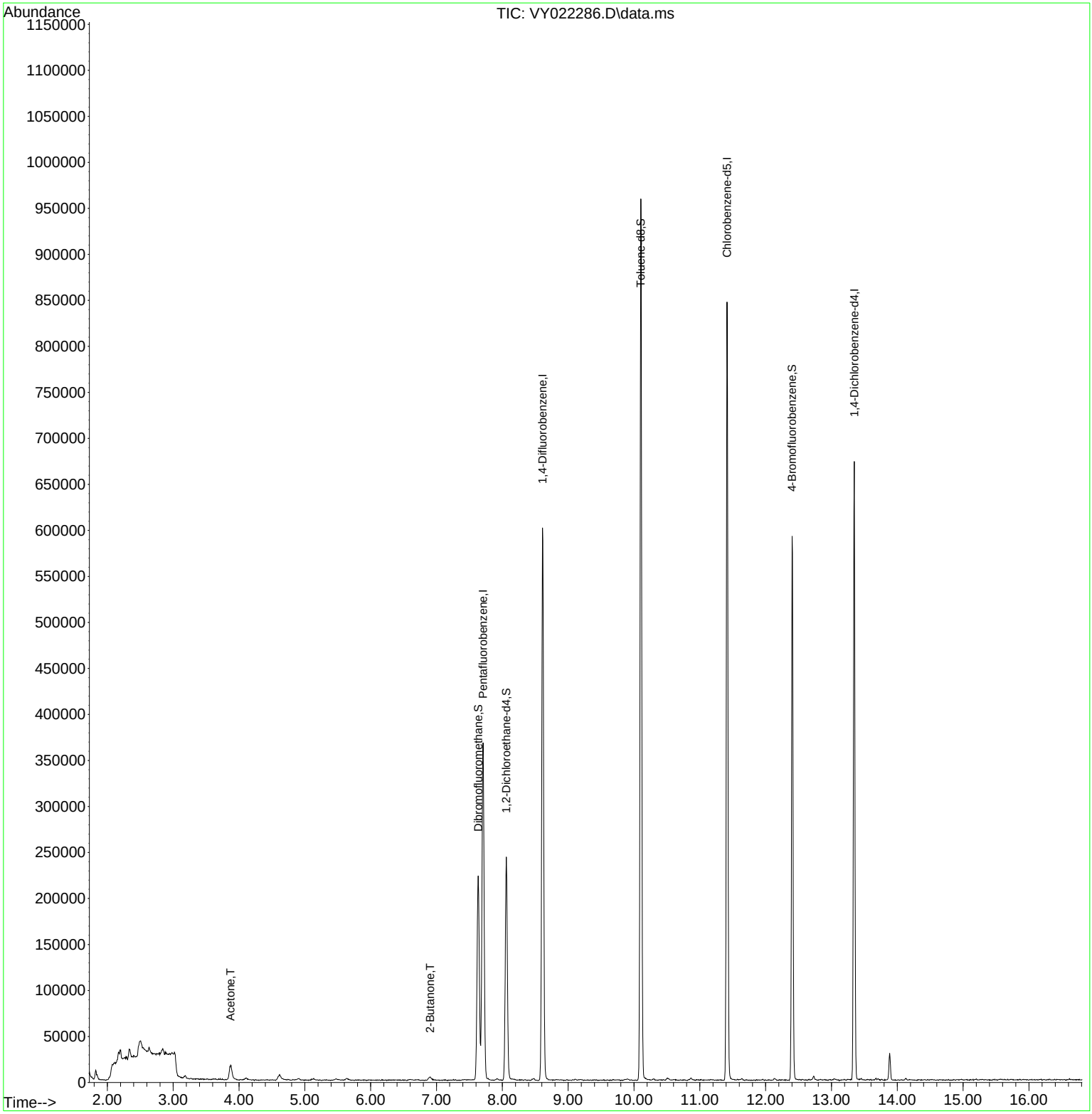
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	279736	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	499229	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	412738	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	154433	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	183547	60.037	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 120.080%			
35) Dibromofluoromethane	7.634	113	154177	51.743	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.480%			
50) Toluene-d8	10.103	98	605727	49.635	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.280%			
62) 4-Bromofluorobenzene	12.402	95	165203	42.709	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 85.420%			
Target Compounds						Qvalue
16) Acetone	3.873	43	30512	53.226	ug/l	93
25) 2-Butanone	6.903	43	6095	6.356	ug/l #	88

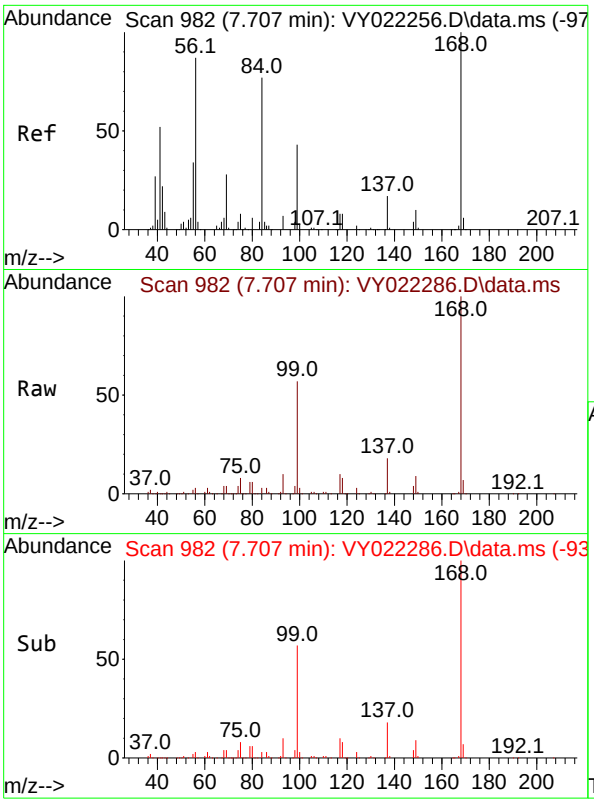
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022286.D
Acq On : 16 May 2025 13:17
Operator : SY/MD
Sample : Q1982-01
Misc : 15.93g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-1

Quant Time: May 17 01:32:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



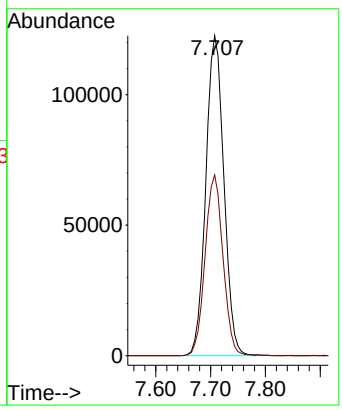


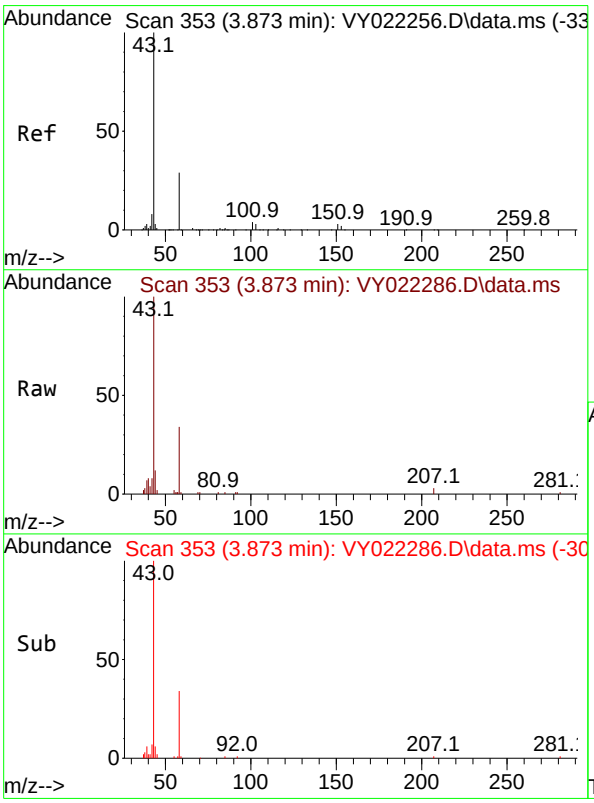
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022286.D
Acq: 16 May 2025 13:17

Instrument :
MSVOA_Y
ClientSampleId :
TP-1

Tgt Ion:168 Resp: 279736

Ion	Ratio	Lower	Upper
168	100		
99	56.5	44.2	66.4

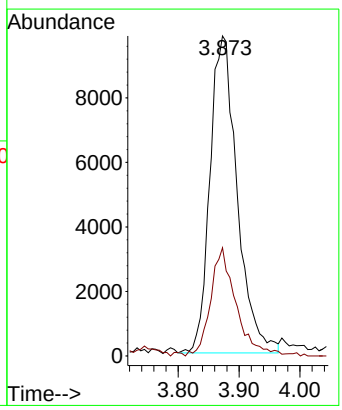


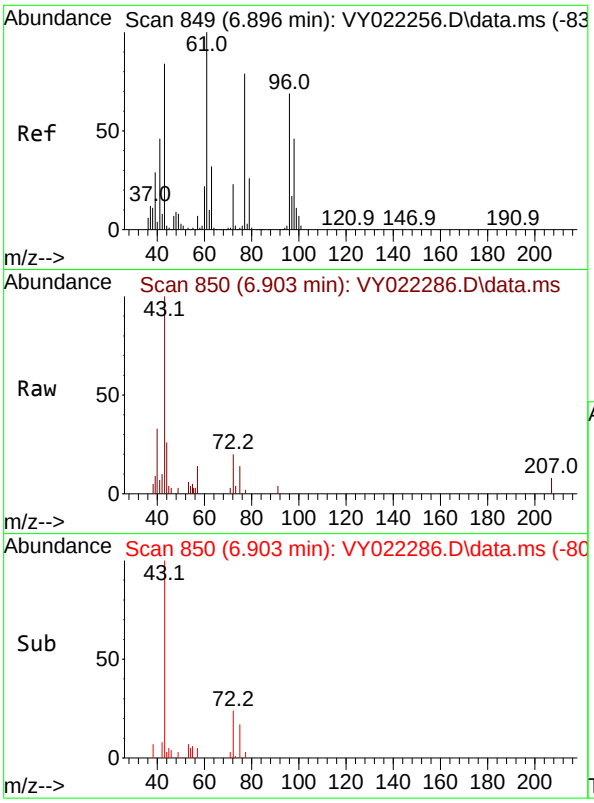


#16
Acetone
Concen: 53.226 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022286.D
Acq: 16 May 2025 13:17

Tgt Ion: 43 Resp: 30512

Ion	Ratio	Lower	Upper
43	100		
58	33.1	23.6	35.4



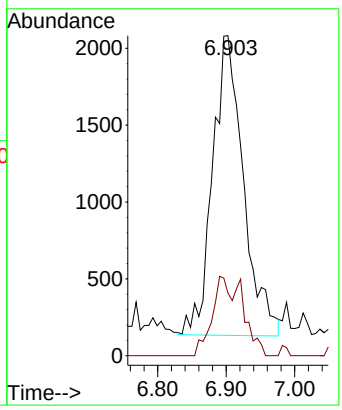


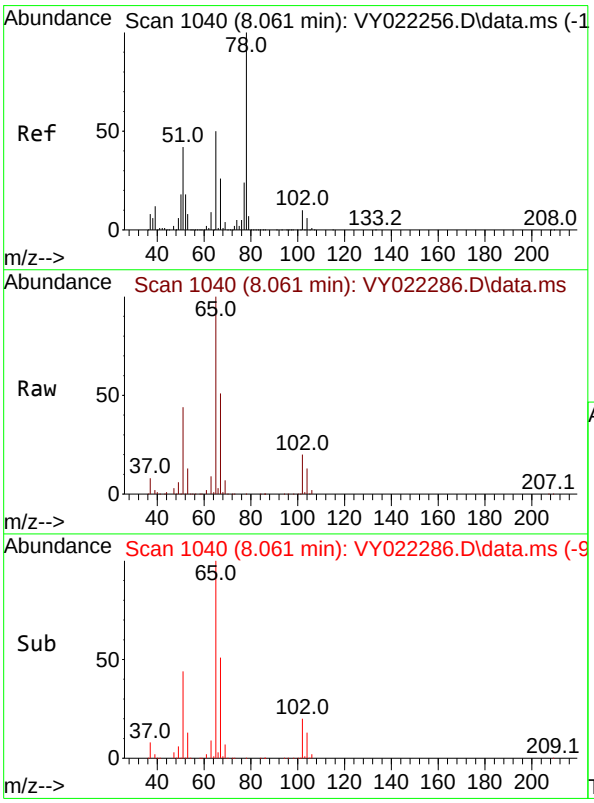
#25
2-Butanone
Concen: 6.356 ug/l
RT: 6.903 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022286.D
Acq: 16 May 2025 13:17

Instrument :
MSVOA_Y
ClientSampleId :
TP-1

Tgt Ion: 43 Resp: 6095

Ion	Ratio	Lower	Upper
43	100		
72	21.1	22.1	33.1#

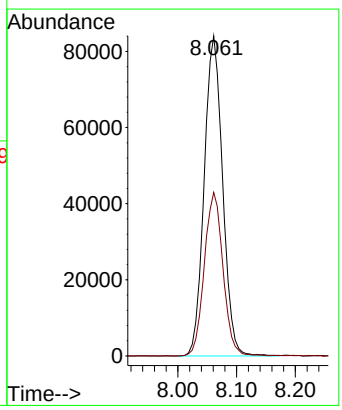


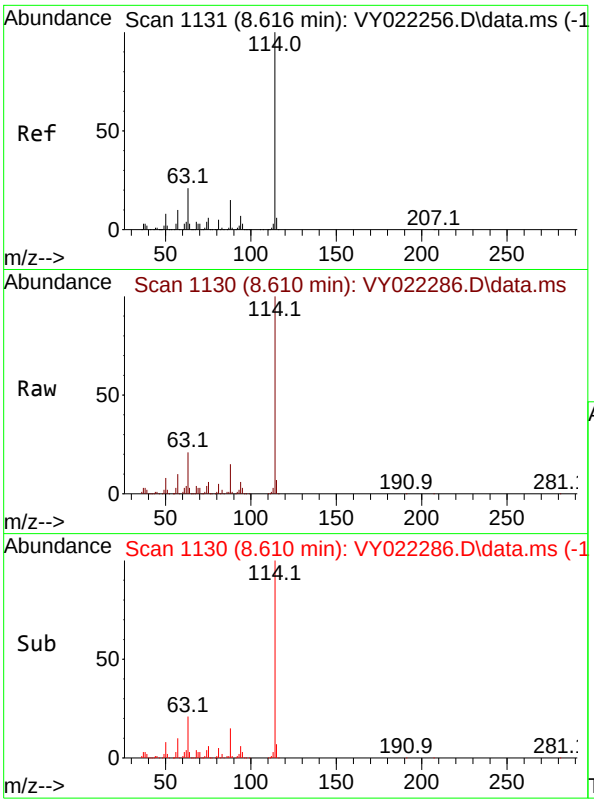


#33
1,2-Dichloroethane-d4
Concen: 60.037 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022286.D
Acq: 16 May 2025 13:17

Tgt Ion: 65 Resp: 183547

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.6



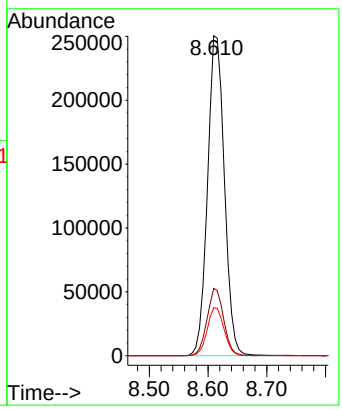


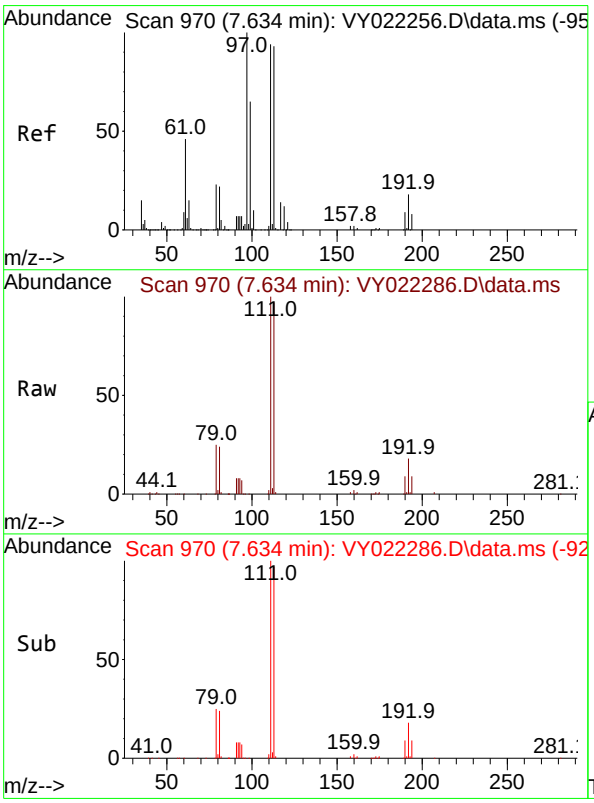
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022286.D
Acq: 16 May 2025 13:17

Instrument :
MSVOA_Y
ClientSampleId :
TP-1

Tgt Ion:114 Resp: 499229

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	41.0
88	15.0	0.0	29.4

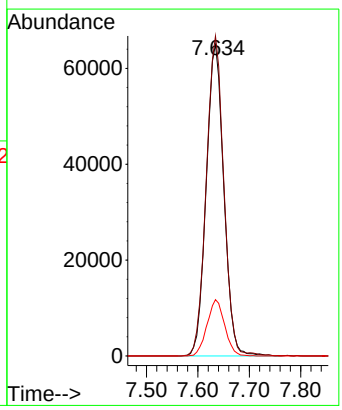


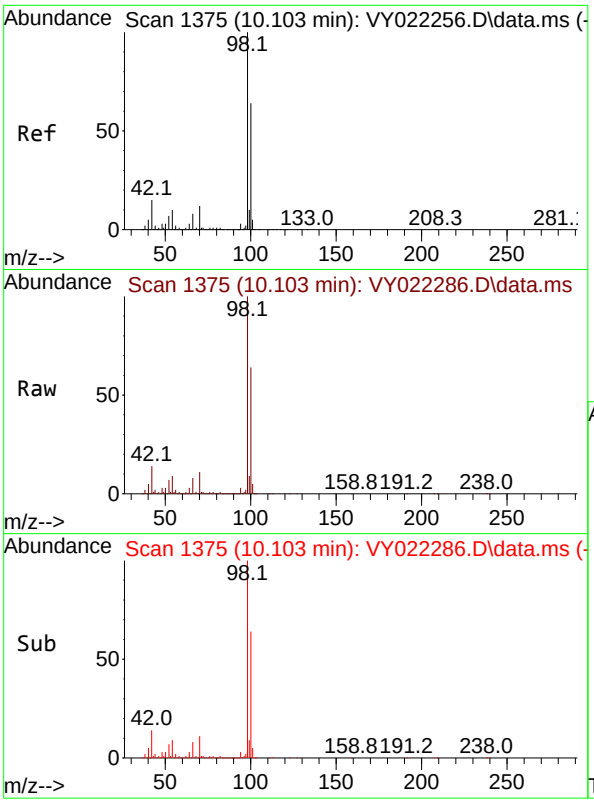


#35
Dibromofluoromethane
Concen: 51.743 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY022286.D
Acq: 16 May 2025 13:17

Tgt Ion:113 Resp: 154177

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.6	123.8
192	18.2	15.2	22.8



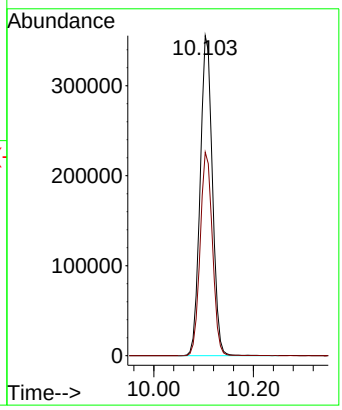


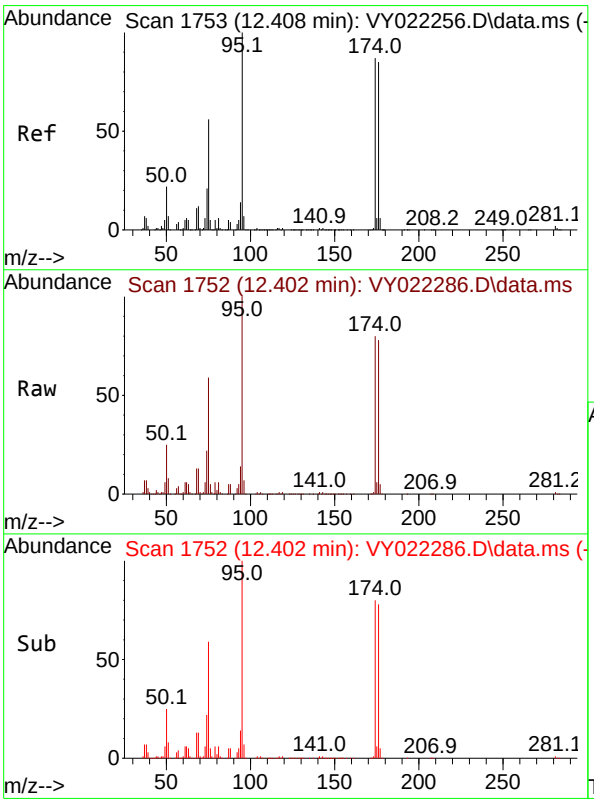
#50
Toluene-d8
Concen: 49.635 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022286.D
Acq: 16 May 2025 13:17

Instrument :
MSVOA_Y
ClientSampleId :
TP-1

Tgt Ion: 98 Resp: 605727

Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.8	77.8

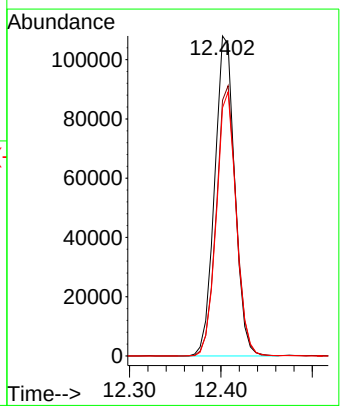


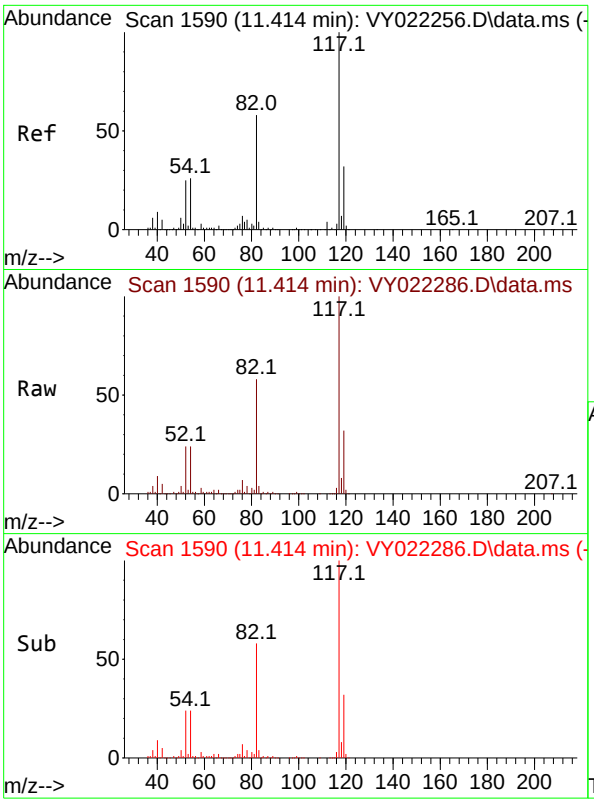


#62
4-Bromofluorobenzene
Concen: 42.709 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022286.D
Acq: 16 May 2025 13:17

Tgt Ion: 95 Resp: 165203

Ion	Ratio	Lower	Upper
95	100		
174	83.6	0.0	166.8
176	81.4	0.0	160.8



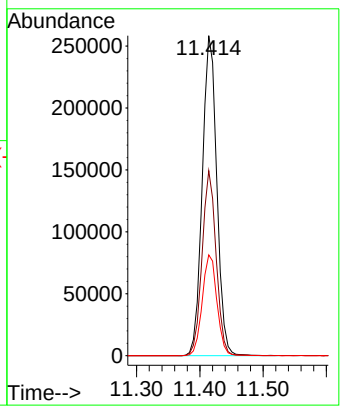


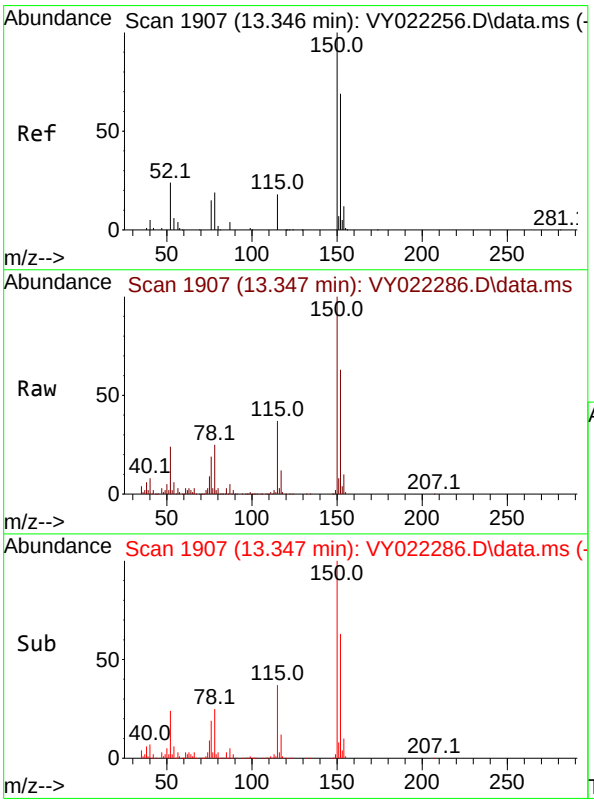
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022286.D
Acq: 16 May 2025 13:17

Instrument :
MSVOA_Y
ClientSampleId :
TP-1

Tgt Ion:117 Resp: 412738

Ion	Ratio	Lower	Upper
117	100		
82	57.8	46.6	70.0
119	31.5	25.8	38.6

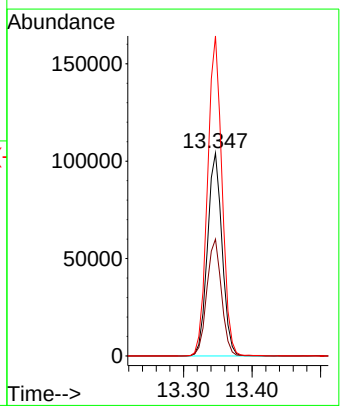




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022286.D
Acq: 16 May 2025 13:17

Tgt Ion:152 Resp: 154433

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	156.2	0.0	353.8



Sample Results: **VY022286.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022286.D
Acq On : 16 May 2025 13:17
Operator : SY/MD
Sample : Q1982-01
Misc : 15.93g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-1

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022286.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	12	17	24	rVB2	9707	18549	1.13%	0.225%
2	2.074	44	58	60	rBV4	16899	41073	2.49%	0.497%
3	2.501	120	128	133	rBV8	15932	53408	3.24%	0.647%
4	3.873	343	353	366	rBV	16171	49075	2.98%	0.594%
5	4.616	465	475	482	rBV3	6483	20971	1.27%	0.254%
6	7.634	959	970	976	rBV	221755	534540	32.44%	6.474%
7	7.707	976	982	994	rVB	365373	831178	50.44%	10.066%
8	8.061	1031	1040	1053	rBV	242911	539495	32.74%	6.534%
9	8.610	1120	1130	1141	rBV	600776	1190536	72.25%	14.418%
10	10.103	1364	1375	1385	rBV	958158	1647793	100.00%	19.956%
11	11.414	1581	1590	1602	rBV	845891	1352411	82.07%	16.379%
12	12.402	1745	1752	1761	rBV	591508	920900	55.89%	11.153%
13	13.347	1900	1907	1917	rBV	672036	1010376	61.32%	12.236%
14	13.883	1989	1995	2004	rVB2	29307	46769	2.84%	0.566%

Sum of corrected areas: 8257074

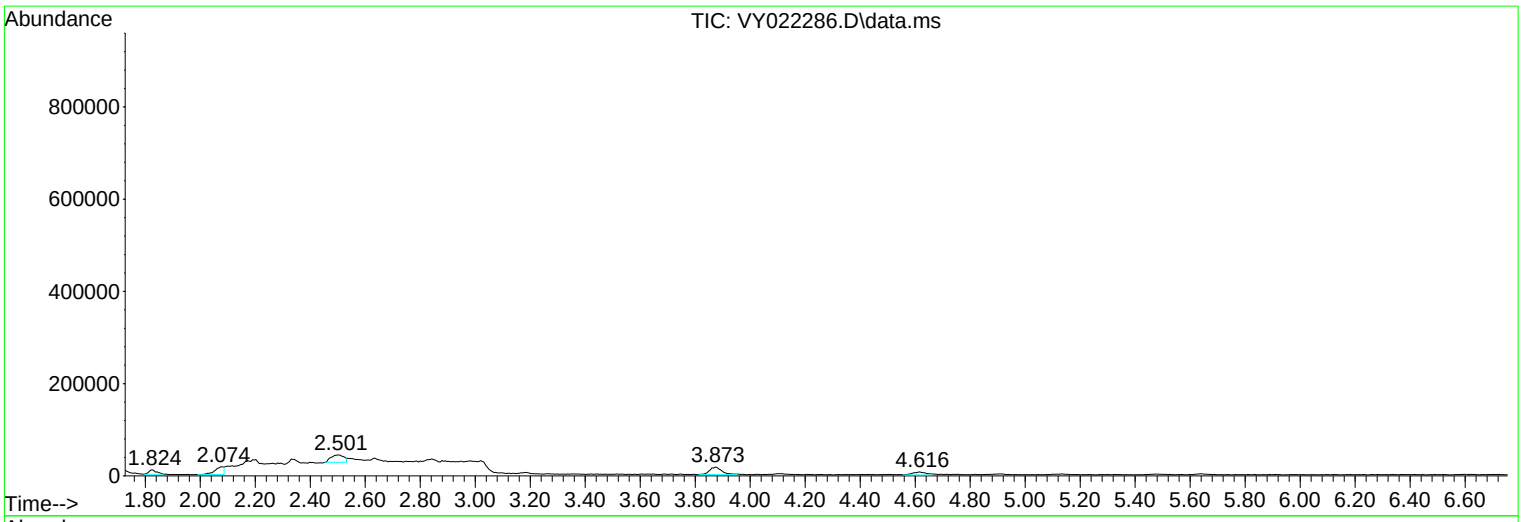
Sample Results: **VY022286.D**

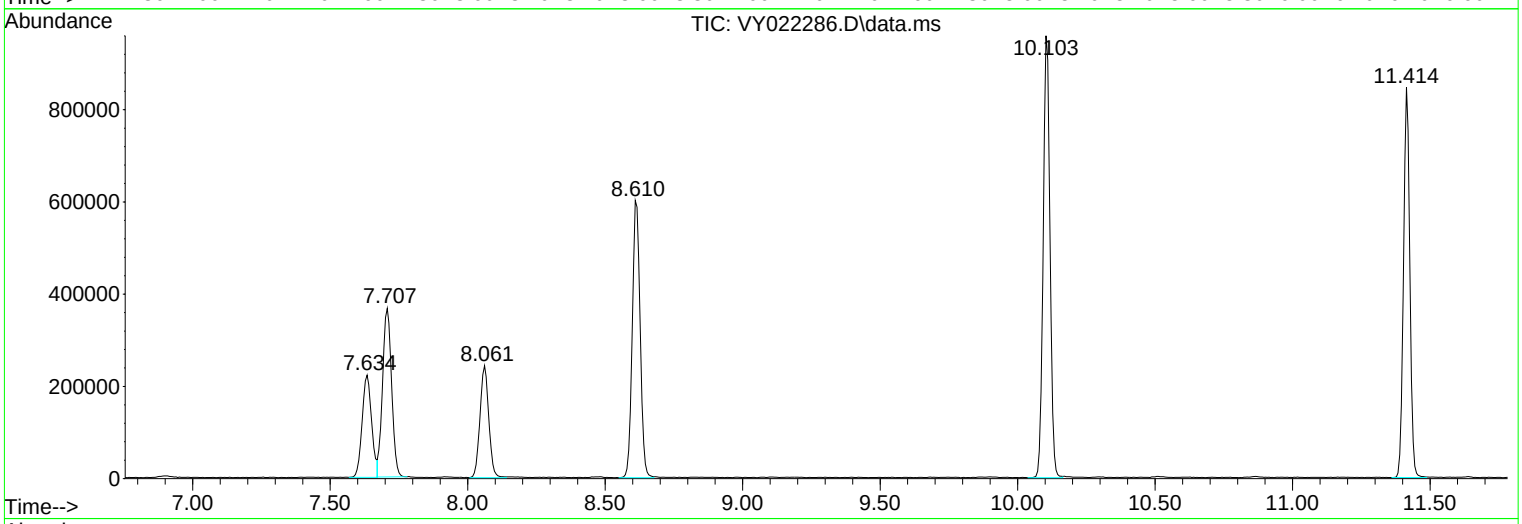
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022286.D
Acq On : 16 May 2025 13:17
Operator : SY/MD
Sample : Q1982-01
Misc : 15.93g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

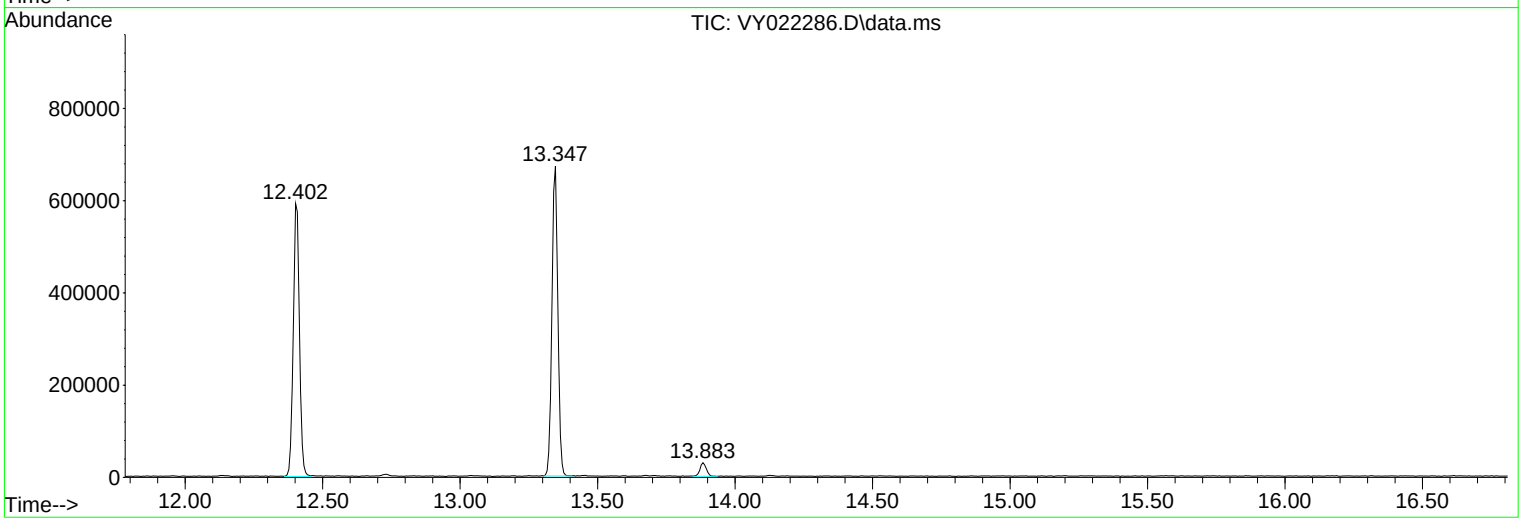
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022286.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022286.D
Acq On : 16 May 2025 13:17
Operator : SY/MD
Sample : Q1982-01
Misc : 15.93g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY051625\
Data File : VY022286.D
Acq On : 16 May 2025 13:17
Operator : SY/MD
Sample : Q1982-01
Misc : 15.93g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY051625\
Data File : VY022287.D
Acq On : 16 May 2025 13:41
Operator : SY/MD
Sample : Q1982-02
Misc : 15.26g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-2B

Quant Time: May 17 01:32:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	272623	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	473712	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	327253	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	82963	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	146188	49.064	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.120%			
35) Dibromofluoromethane	7.634	113	142338	50.343	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.680%			
50) Toluene-d8	10.103	98	553522	47.801	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.600%			
62) 4-Bromofluorobenzene	12.401	95	133997	36.508	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 73.020%			

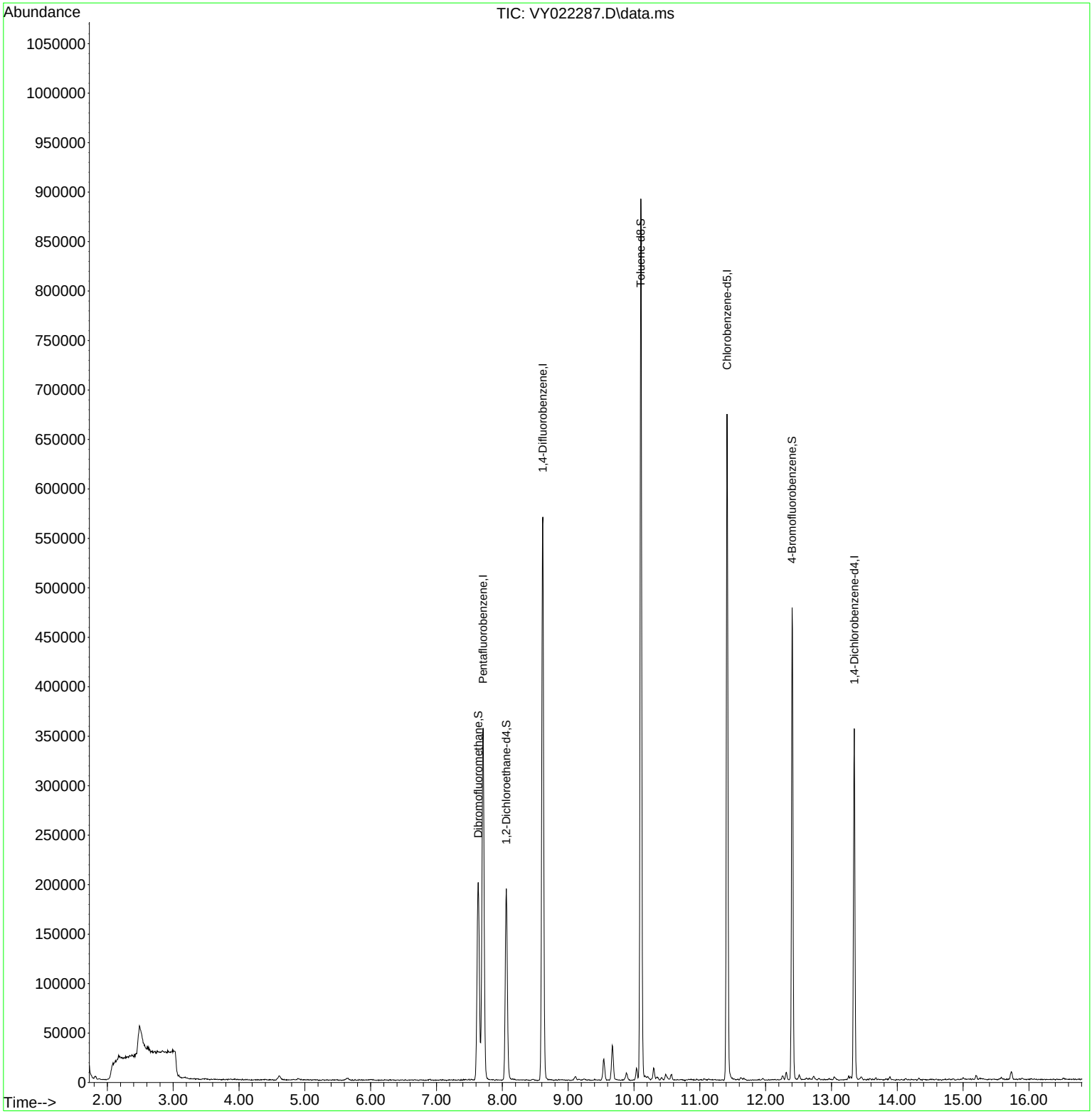
Target Compounds Qvalue

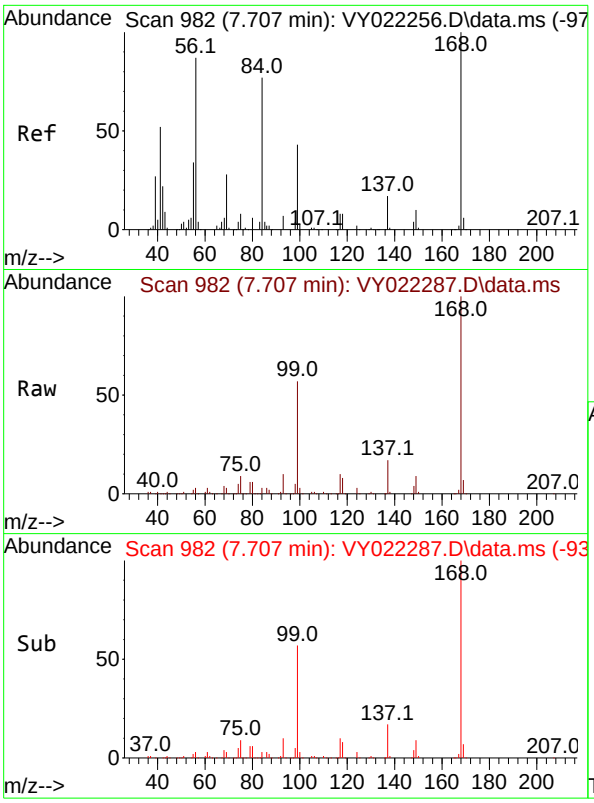
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022287.D
Acq On : 16 May 2025 13:41
Operator : SY/MD
Sample : Q1982-02
Misc : 15.26g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-2B

Quant Time: May 17 01:32:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



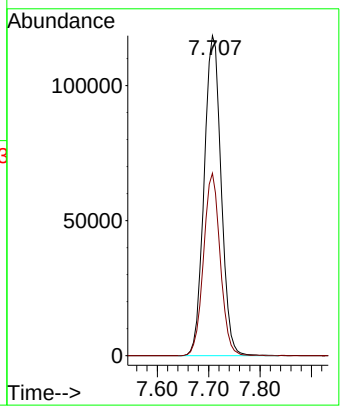


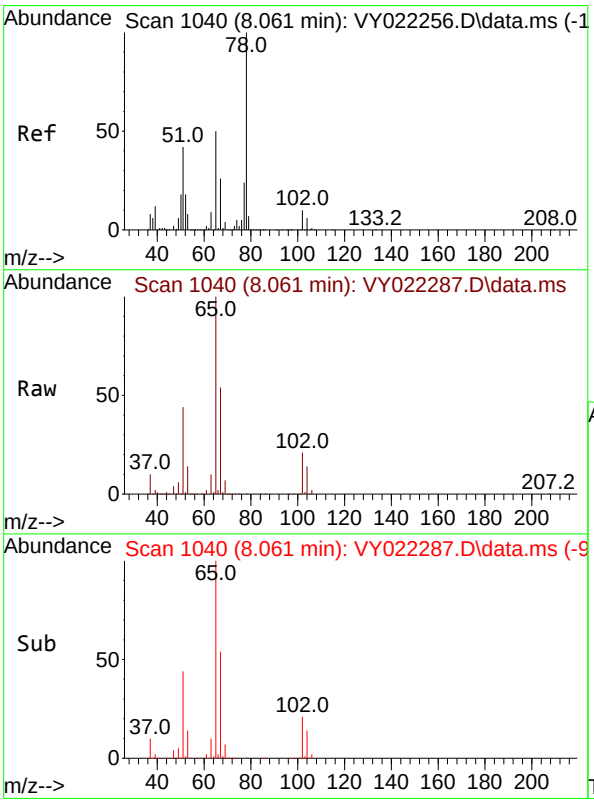
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022287.D
Acq: 16 May 2025 13:41

Instrument :
MSVOA_Y
ClientSampleId :
TP-2B

Tgt Ion:168 Resp: 272623

Ion	Ratio	Lower	Upper
168	100		
99	57.0	44.2	66.4

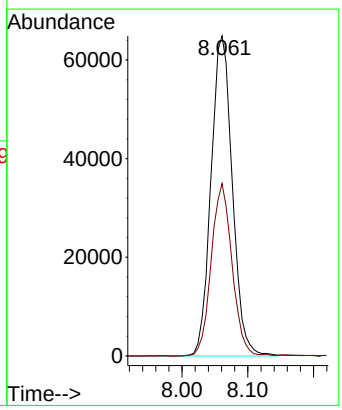


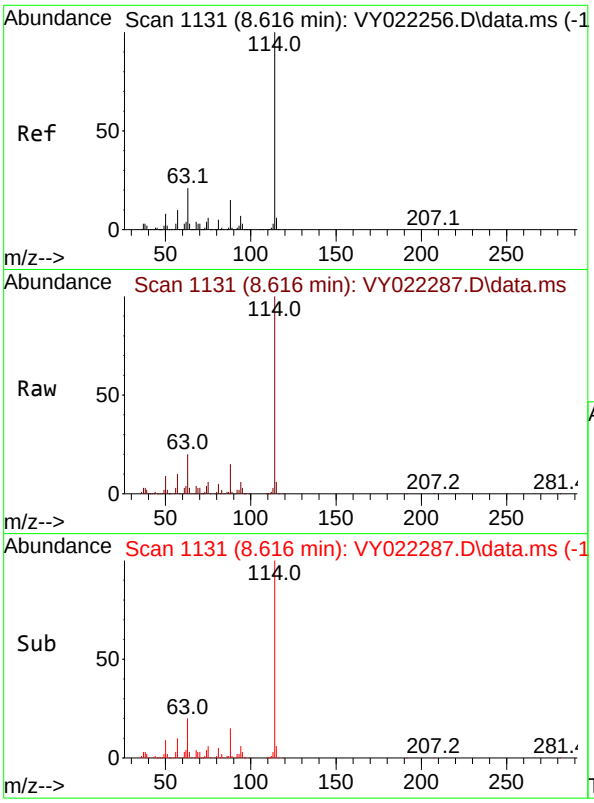


#33
1,2-Dichloroethane-d4
Concen: 49.064 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022287.D
Acq: 16 May 2025 13:41

Tgt Ion: 65 Resp: 146188

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	104.6



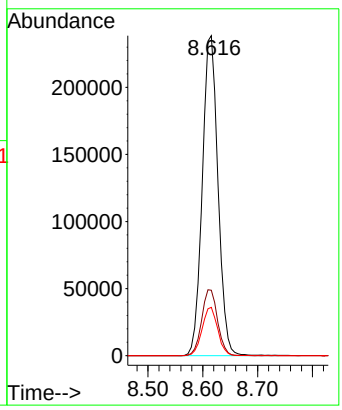


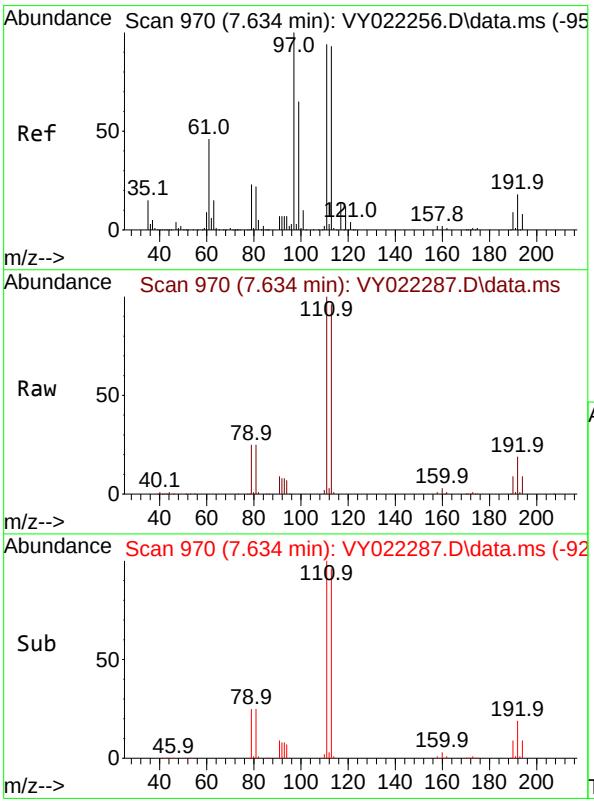
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022287.D
Acq: 16 May 2025 13:41

Instrument :
MSVOA_Y
ClientSampleId :
TP-2B

Tgt Ion:114 Resp: 473712

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	41.0
88	15.1	0.0	29.4

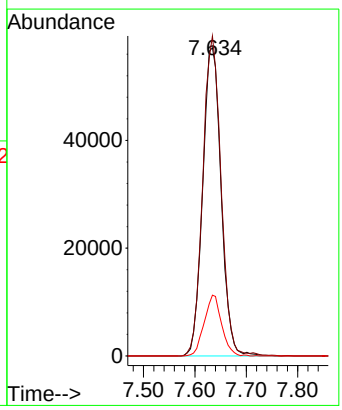


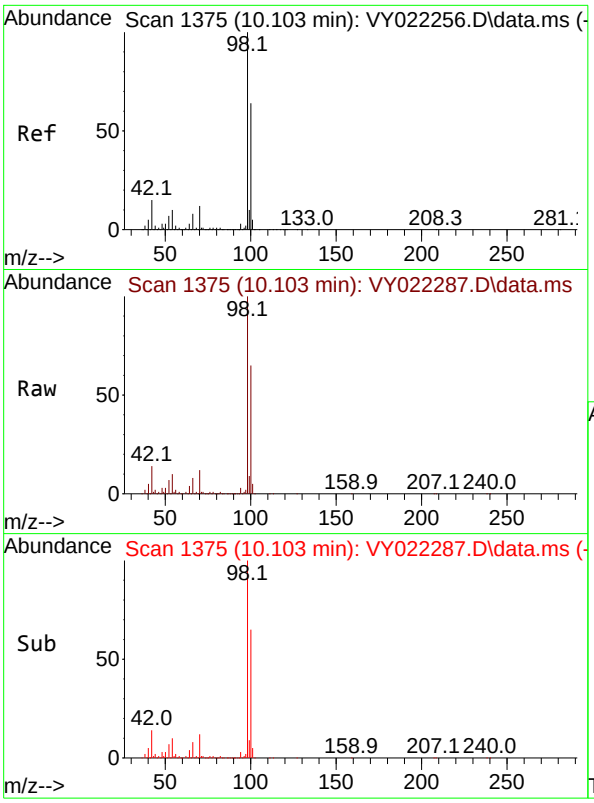


#35
Dibromofluoromethane
Concen: 50.343 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY022287.D
Acq: 16 May 2025 13:41

Tgt Ion:113 Resp: 142338

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.6	123.8
192	18.7	15.2	22.8



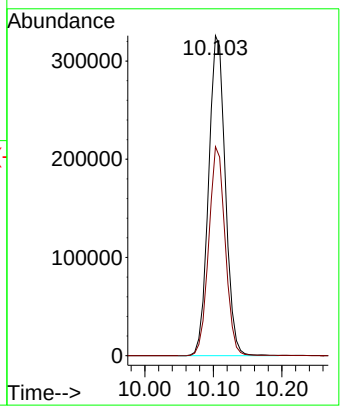


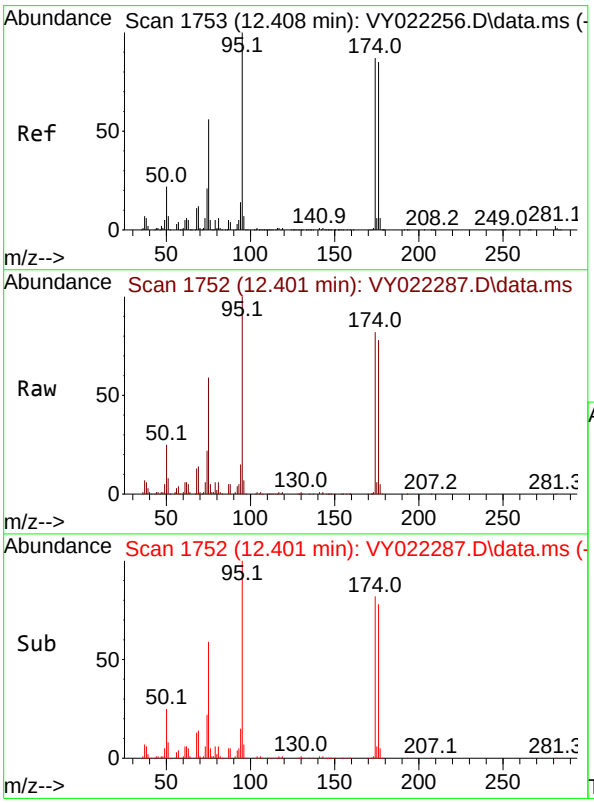
#50
Toluene-d8
Concen: 47.801 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022287.D
Acq: 16 May 2025 13:41

Instrument :
MSVOA_Y
ClientSampleId :
TP-2B

Tgt Ion: 98 Resp: 553522

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.8	77.8

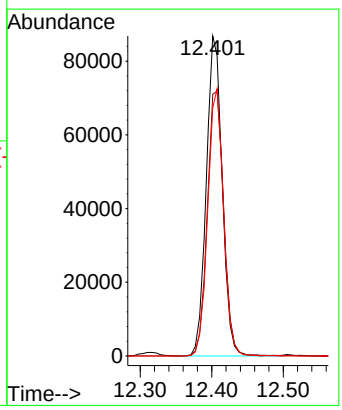


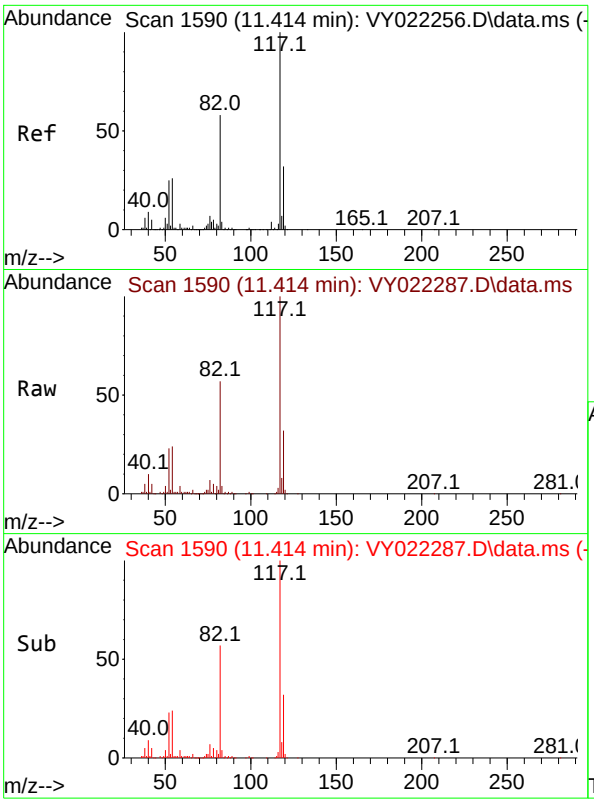


#62
4-Bromofluorobenzene
Concen: 36.508 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022287.D
Acq: 16 May 2025 13:41

Tgt Ion: 95 Resp: 133997

Ion	Ratio	Lower	Upper
95	100		
174	85.6	0.0	166.8
176	82.9	0.0	160.8



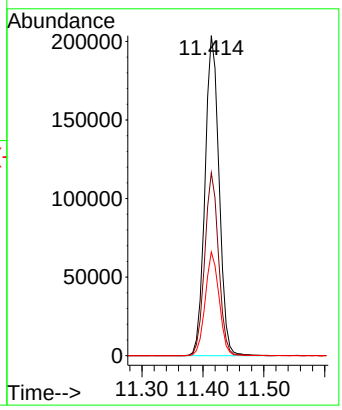


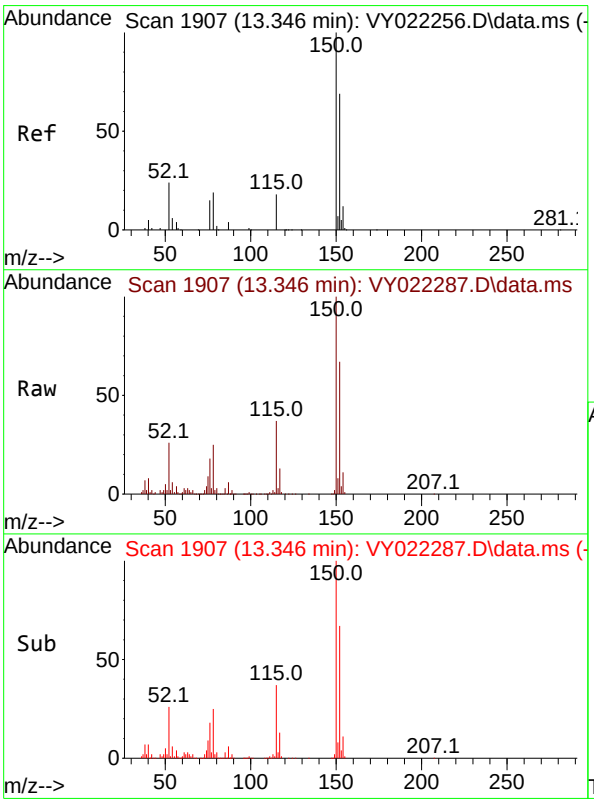
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022287.D
Acq: 16 May 2025 13:41

Instrument :
MSVOA_Y
ClientSampleId :
TP-2B

Tgt Ion:117 Resp: 327253

Ion	Ratio	Lower	Upper
117	100		
82	57.1	46.6	70.0
119	32.4	25.8	38.6

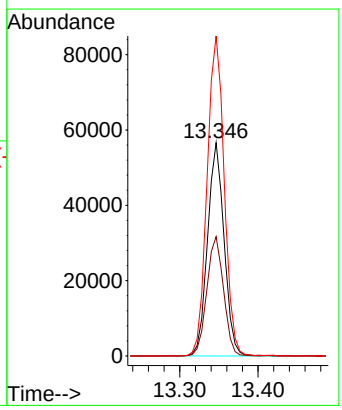




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022287.D
Acq: 16 May 2025 13:41

Tgt Ion:152 Resp: 82963

Ion	Ratio	Lower	Upper
152	100		
115	56.5	29.4	88.2
150	155.1	0.0	353.8



Sample Results: **VY022287.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022287.D
Acq On : 16 May 2025 13:41
Operator : SY/MD
Sample : Q1982-02
Misc : 15.26g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-2B

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022287.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.086	48	60	61	rBV4	16506	37985	2.53%	0.533%
2	2.489	119	126	144	rBV9	28155	131888	8.79%	1.852%
3	7.634	960	970	976	rBV2	199900	495141	33.00%	6.954%
4	7.707	976	982	997	rVB	355537	811101	54.05%	11.392%
5	8.061	1031	1040	1053	rBV	193515	433022	28.86%	6.082%
6	8.616	1118	1131	1144	rBV	569854	1136384	75.73%	15.960%
7	9.542	1275	1283	1290	rBV2	21584	42660	2.84%	0.599%
8	9.670	1297	1304	1314	rBV	35213	72651	4.84%	1.020%
9	9.884	1330	1339	1346	rBV4	7626	16635	1.11%	0.234%
10	10.036	1359	1364	1368	rBV	12124	20032	1.34%	0.281%
11	10.103	1368	1375	1384	rVV	888866	1500513	100.00%	21.074%
12	10.298	1399	1407	1412	rBV3	12269	22700	1.51%	0.319%
13	11.414	1582	1590	1602	rBV	673532	1091680	72.75%	15.332%
14	12.401	1744	1752	1763	rBV	477087	750235	50.00%	10.537%
15	13.346	1900	1907	1916	rVB	354608	542302	36.14%	7.616%
16	15.730	2293	2298	2304	rVB9	7836	15215	1.01%	0.214%

Sum of corrected areas: 7120144

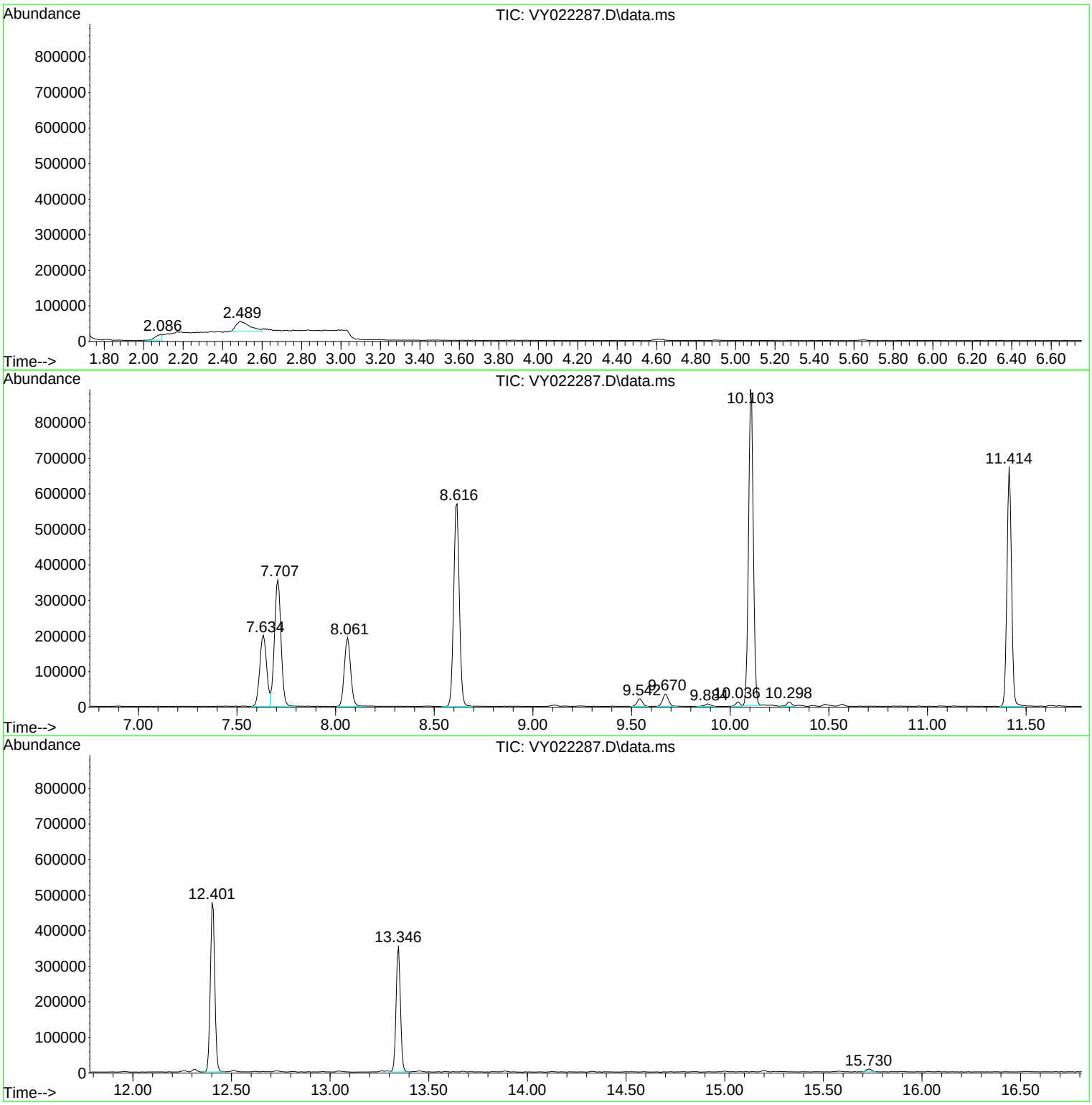
Sample Results: **VY022287.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022287.D
Acq On : 16 May 2025 13:41
Operator : SY/MD
Sample : Q1982-02
Misc : 15.26g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-2B

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022287.D
Acq On : 16 May 2025 13:41
Operator : SY/MD
Sample : Q1982-02
Misc : 15.26g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-2B

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

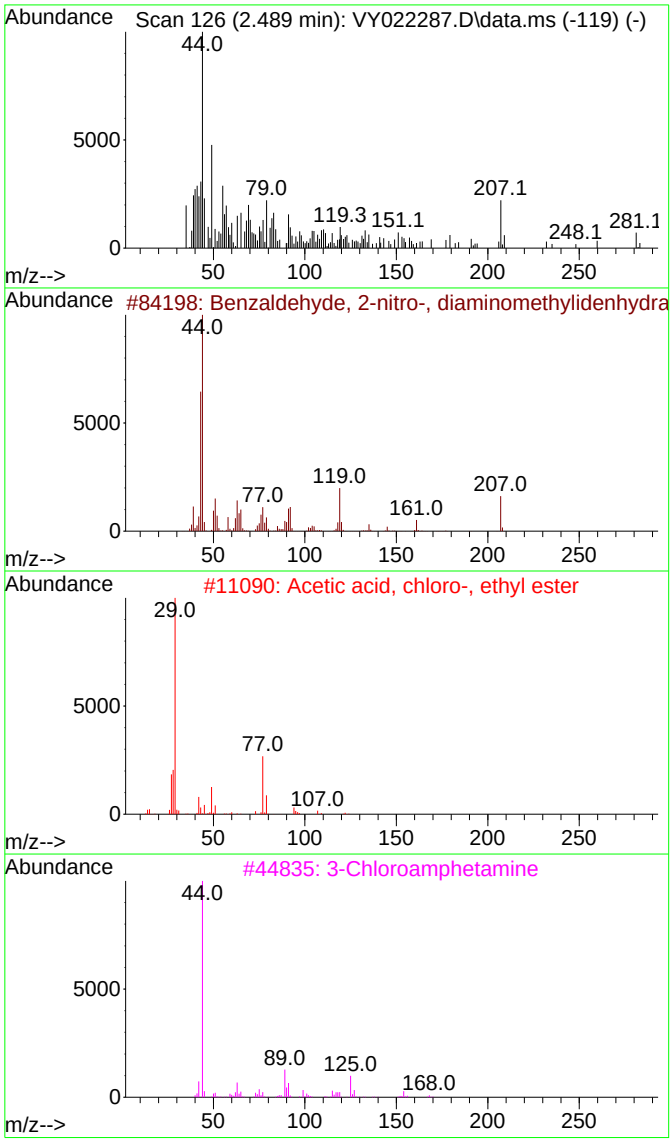
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

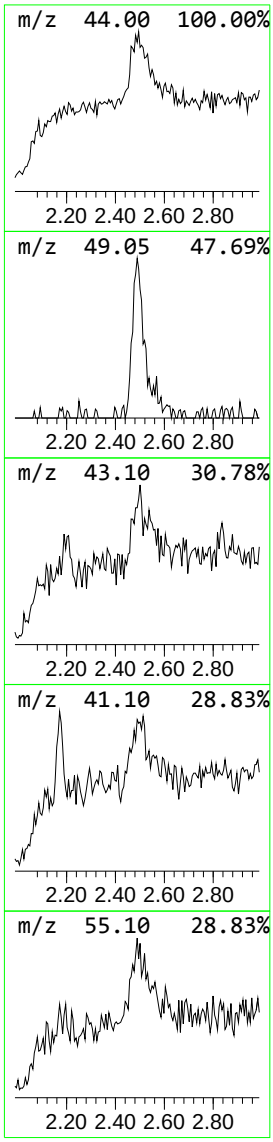
****

Peak Number 1 unknown2.489 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.489	8.13 ug/l	131888	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 2-nitro-, diaminom...	207	C8H9N5O2	102632-31-5	38
2	Acetic acid, chloro-, ethyl ester	122	C4H7ClO2	000105-39-5	16
3	3-Chloroamphetamine	169	C9H12ClN	032560-59-1	10
4	2-(Methylamino)ethanol, O-trimet...	147	C6H17NOSi	1000385-96-3	10
5	2-[(2-Aminoethyl)sulfanyl]acetic...	163	C6H13NO2S	1249150-80-8	10





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022287.D
Acq On : 16 May 2025 13:41
Operator : SY/MD
Sample : Q1982-02
Misc : 15.26g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-2B

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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
unknown2.489	2.489	8.1	ug/l	131888	1	7.707	811101	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022288.D
Acq On : 16 May 2025 14:04
Operator : SY/MD
Sample : Q1982-03
Misc : 11.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-3

Quant Time: May 17 01:33:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

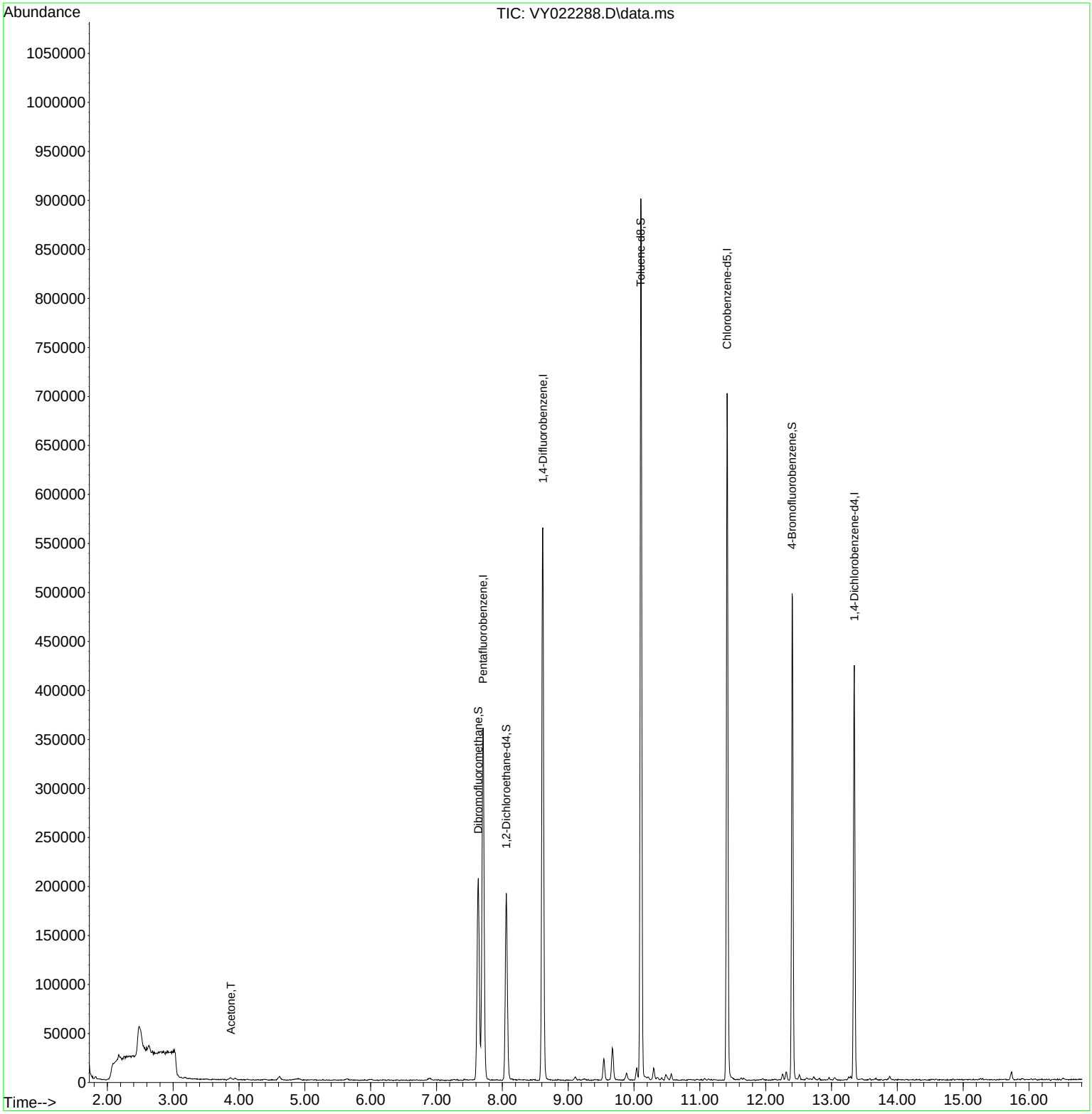
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	273129	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	474491	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	343745	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	98736	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	142878	47.865	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 95.720%			
35) Dibromofluoromethane	7.634	113	140680	49.674	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.340%			
50) Toluene-d8	10.103	98	558787	48.176	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.360%			
62) 4-Bromofluorobenzene	12.401	95	144300	39.250	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 78.500%			
Target Compounds						Qvalue
16) Acetone	3.879	43	3988	7.125	ug/l #	89

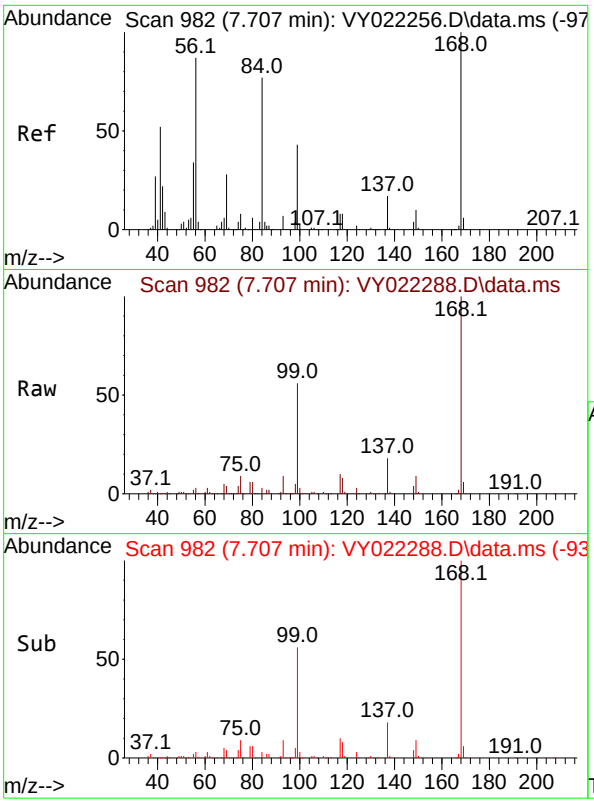
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022288.D
Acq On : 16 May 2025 14:04
Operator : SY/MD
Sample : Q1982-03
Misc : 11.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-3

Quant Time: May 17 01:33:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



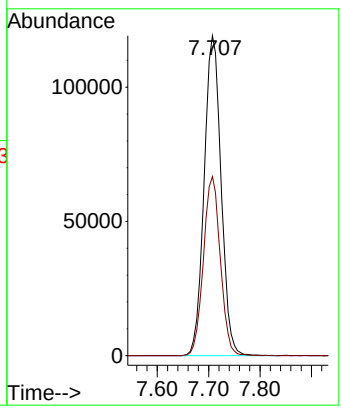


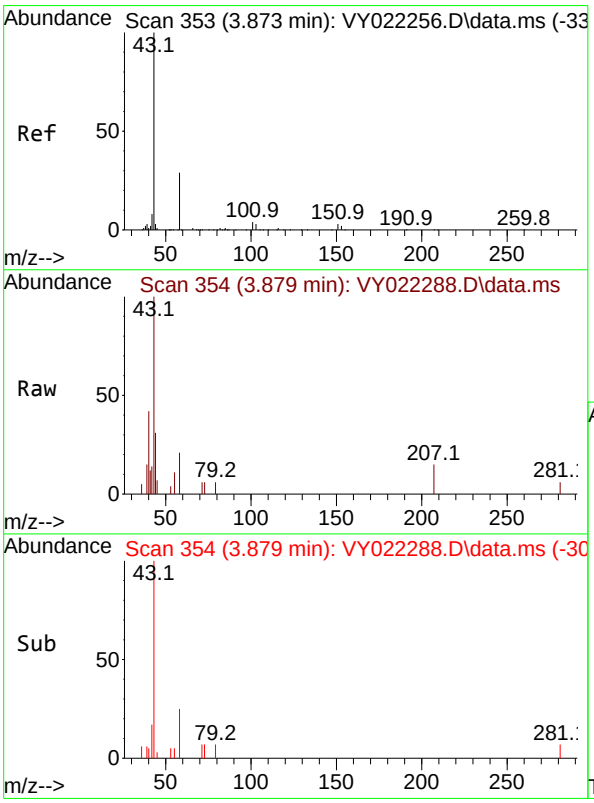
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022288.D
Acq: 16 May 2025 14:04

Instrument :
MSVOA_Y
ClientSampleId :
TP-3

Tgt Ion:168 Resp: 273129

Ion	Ratio	Lower	Upper
168	100		
99	56.0	44.2	66.4

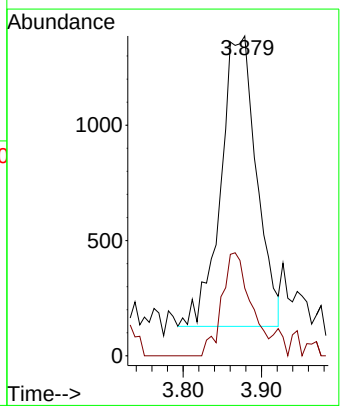


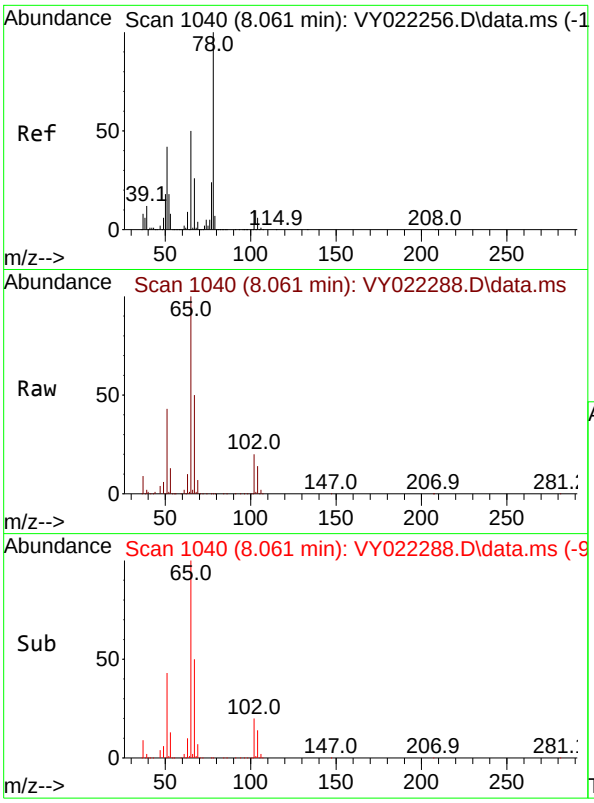


#16
Acetone
Concen: 7.125 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022288.D
Acq: 16 May 2025 14:04

Tgt Ion: 43 Resp: 3988

Ion	Ratio	Lower	Upper
43	100		
58	23.4	23.6	35.4#



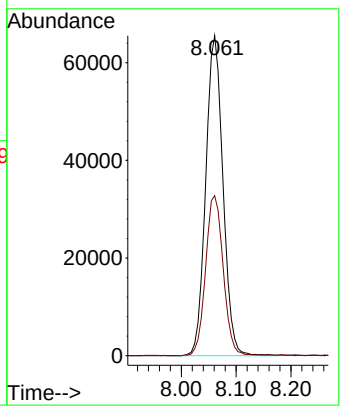


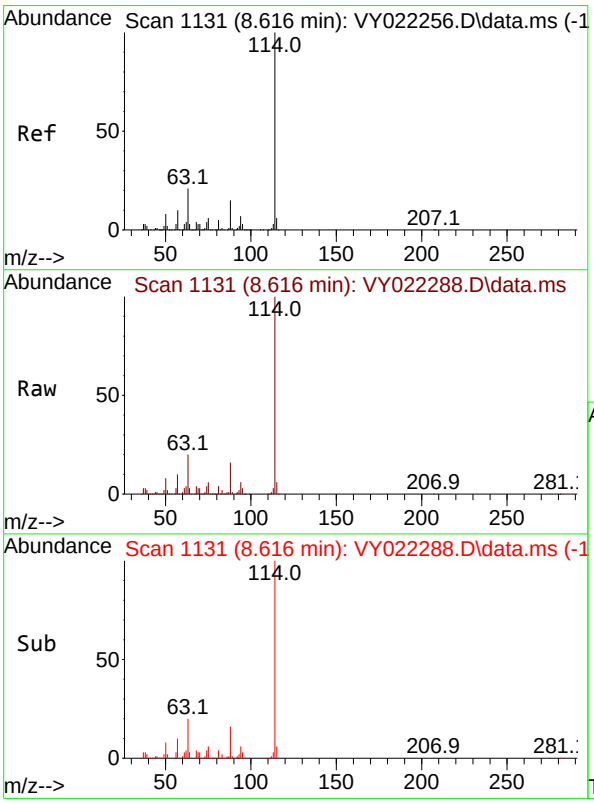
#33
1,2-Dichloroethane-d4
Concen: 47.865 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022288.D
Acq: 16 May 2025 14:04

Instrument :
MSVOA_Y
ClientSampleId :
TP-3

Tgt Ion: 65 Resp: 142878

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	104.6

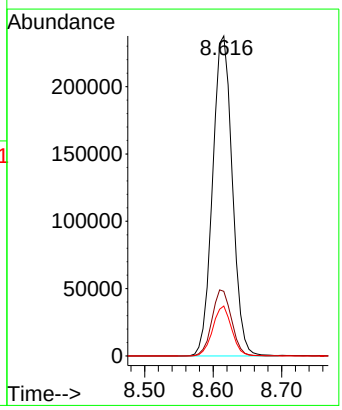


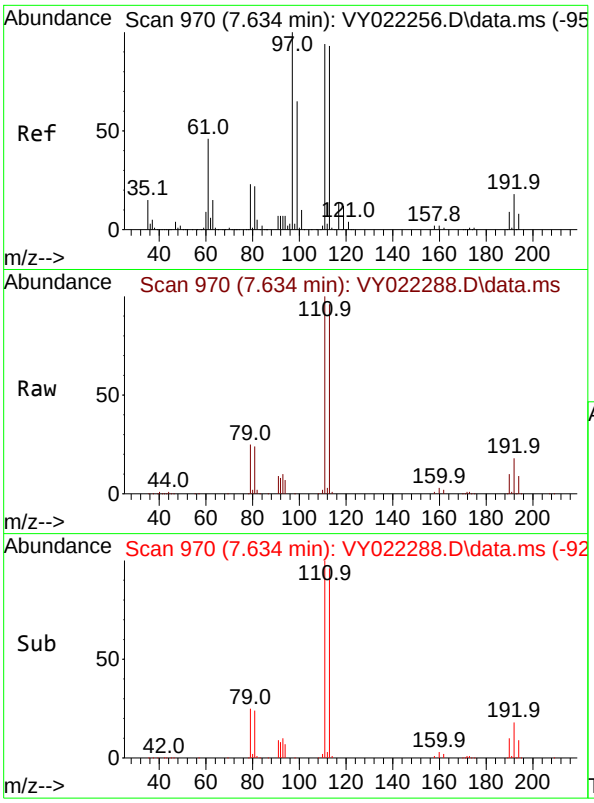


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022288.D
Acq: 16 May 2025 14:04

Tgt Ion:114 Resp: 474491

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	41.0
88	15.6	0.0	29.4



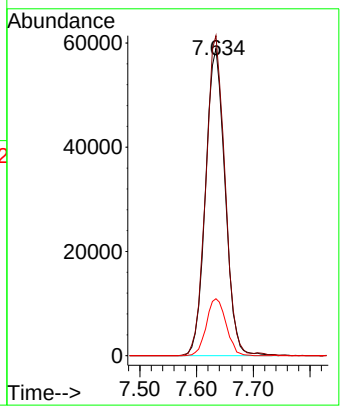


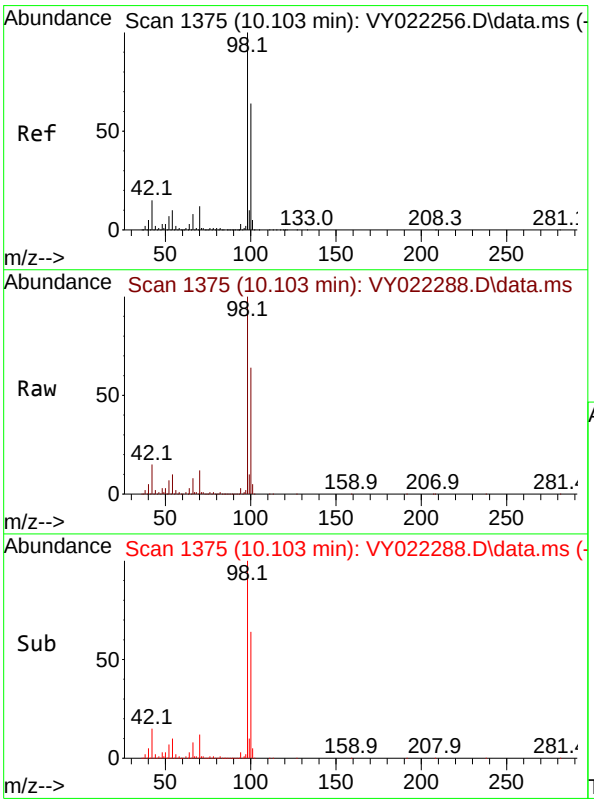
#35
Dibromofluoromethane
Concen: 49.674 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022288.D
Acq: 16 May 2025 14:04

Instrument :
MSVOA_Y
ClientSampleId :
TP-3

Tgt Ion:113 Resp: 140680

Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.6	123.8
192	18.8	15.2	22.8

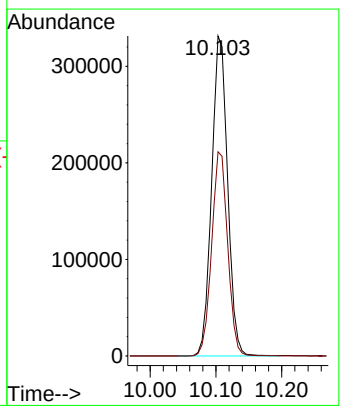


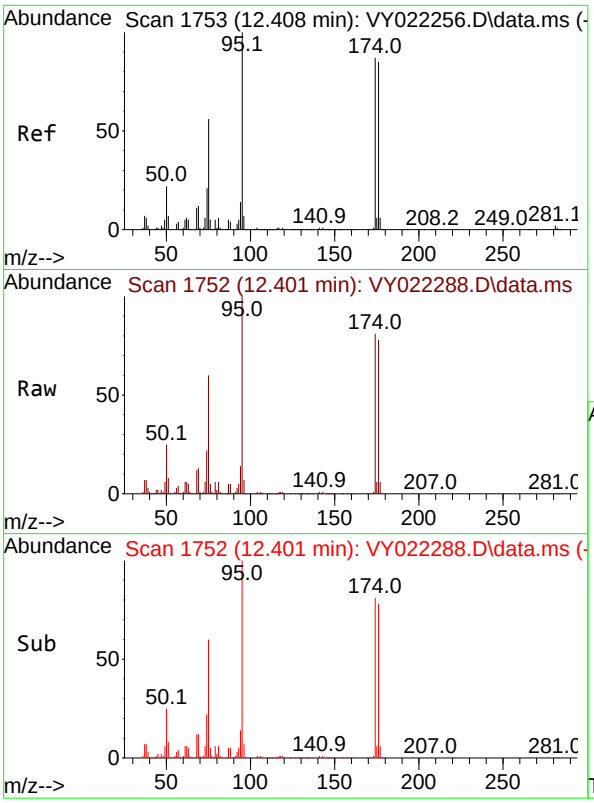


#50
Toluene-d8
Concen: 48.176 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022288.D
Acq: 16 May 2025 14:04

Tgt Ion: 98 Resp: 558787

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.8	77.8



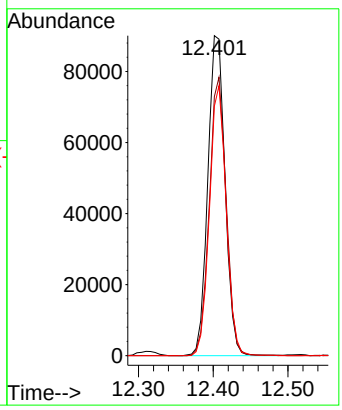


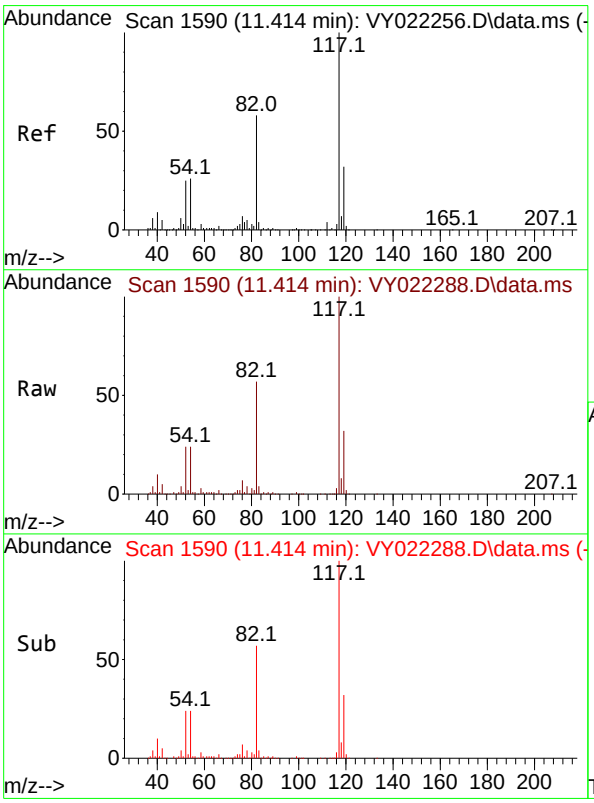
#62
4-Bromofluorobenzene
Concen: 39.250 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022288.D
Acq: 16 May 2025 14:04

Instrument :
MSVOA_Y
ClientSampleId :
TP-3

Tgt Ion: 95 Resp: 144300

Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	166.8
176	81.9	0.0	160.8

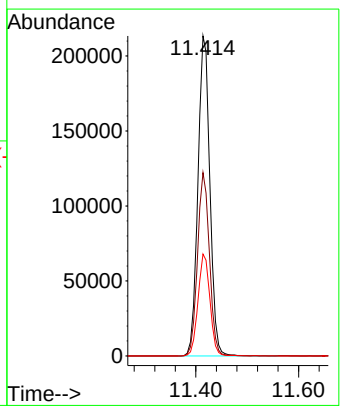


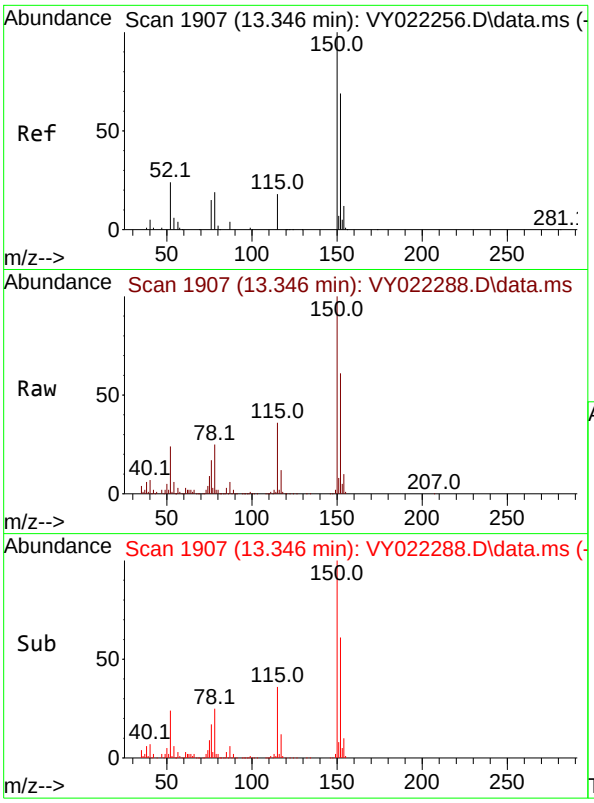


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY022288.D
Acq: 16 May 2025 14:04

Tgt Ion:117 Resp: 343745

Ion	Ratio	Lower	Upper
117	100		
82	57.3	46.6	70.0
119	31.8	25.8	38.6



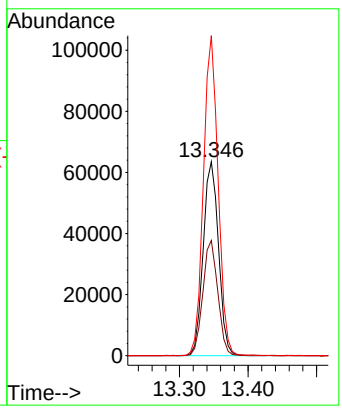


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022288.D
Acq: 16 May 2025 14:04

Instrument :
MSVOA_Y
ClientSampleId :
TP-3

Tgt Ion:152 Resp: 98736

Ion	Ratio	Lower	Upper
152	100		
115	58.0	29.4	88.2
150	158.4	0.0	353.8



Sample Results: **VY022288.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022288.D
Acq On : 16 May 2025 14:04
Operator : SY/MD
Sample : Q1982-03
Misc : 11.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-3

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022288.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.086	50	60	61	rBV3	15905	36989	2.43%	0.505%
2	2.482	118	125	138	rBV8	26549	110933	7.29%	1.513%
3	7.634	960	970	976	rBV	205557	490408	32.23%	6.689%
4	7.707	976	982	995	rVB	358881	807878	53.09%	11.019%
5	8.061	1029	1040	1051	rBV	191070	421800	27.72%	5.753%
6	8.616	1121	1131	1142	rBV	564003	1136441	74.68%	15.501%
7	9.542	1276	1283	1293	rVB	21609	42204	2.77%	0.576%
8	9.670	1293	1304	1313	rBV2	32798	69148	4.54%	0.943%
9	9.884	1333	1339	1349	rVB5	7293	15581	1.02%	0.213%
10	10.042	1358	1365	1369	rBV	12346	22283	1.46%	0.304%
11	10.103	1369	1375	1391	rVB	897659	1521767	100.00%	20.757%
12	10.298	1399	1407	1413	rBV5	12137	22367	1.47%	0.305%
13	11.414	1582	1590	1600	rBV	701108	1140512	74.95%	15.557%
14	12.310	1732	1737	1745	rVB4	8566	15387	1.01%	0.210%
15	12.401	1745	1752	1765	rBV	496521	810244	53.24%	11.052%
16	13.346	1901	1907	1917	rVB	422883	651612	42.82%	8.888%
17	15.736	2292	2299	2305	rVB7	8357	15847	1.04%	0.216%

Sum of corrected areas: 7331401

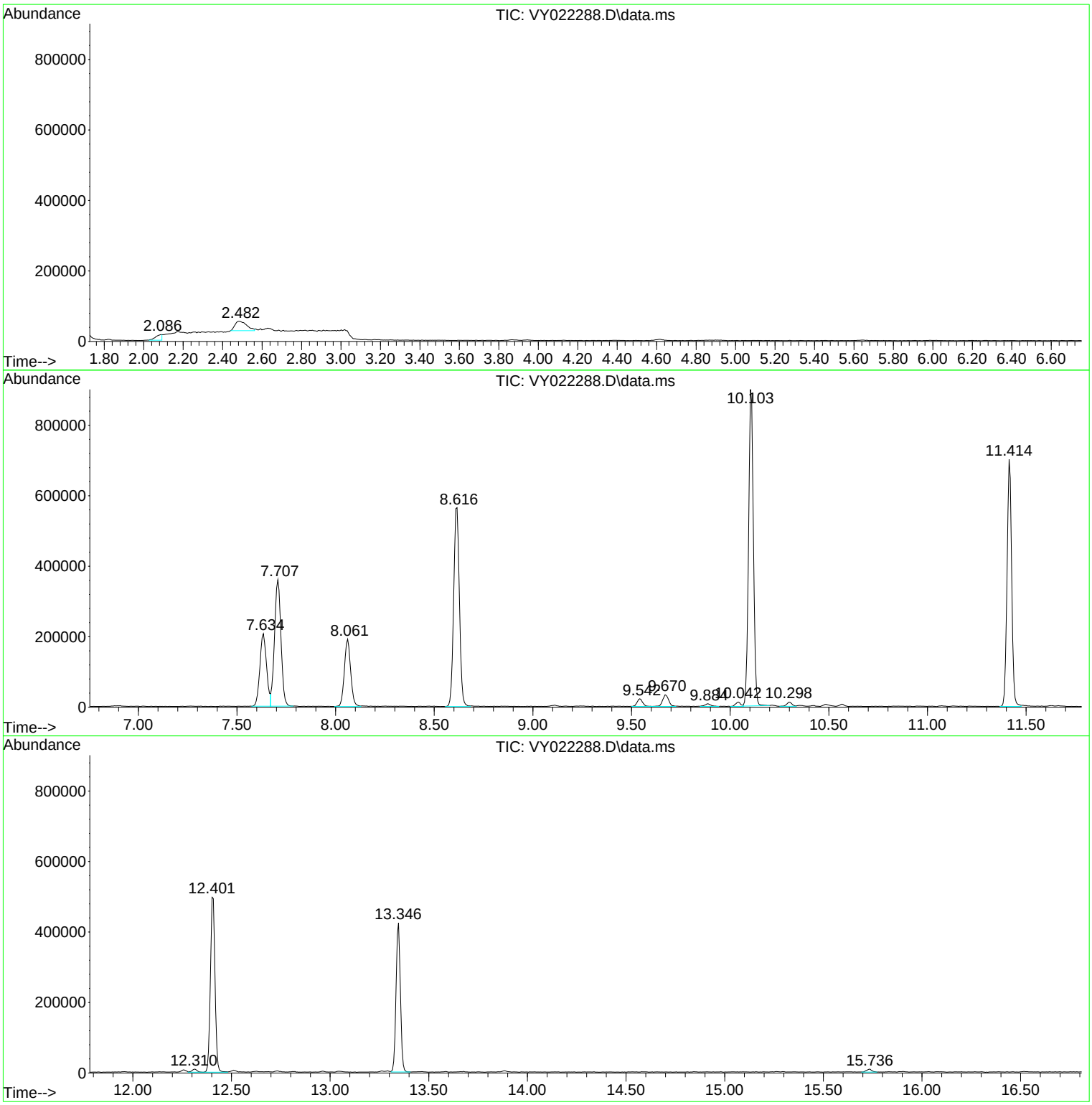
Sample Results: **VY022288.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022288.D
Acq On : 16 May 2025 14:04
Operator : SY/MD
Sample : Q1982-03
Misc : 11.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022288.D
Acq On : 16 May 2025 14:04
Operator : SY/MD
Sample : Q1982-03
Misc : 11.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

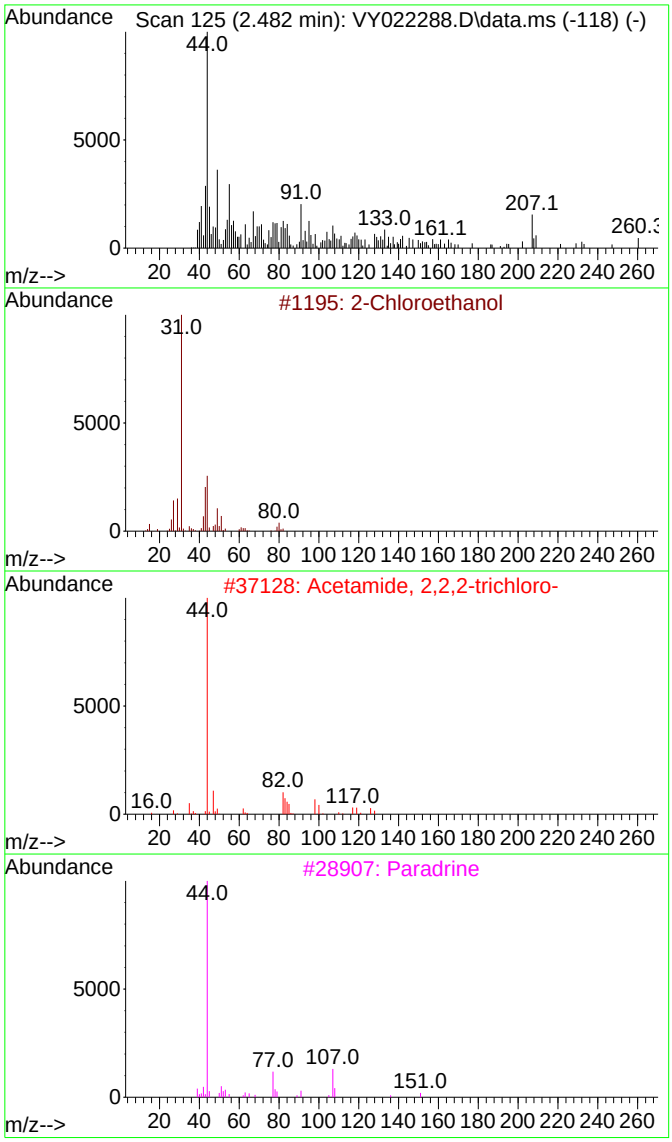
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

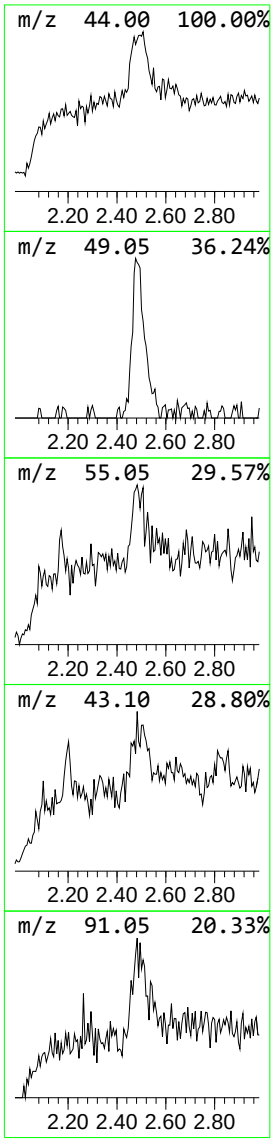
****

Peak Number 1 2-Chloroethanol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.482	6.87 ug/l	110933	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Chloroethanol	80	C2H5ClO	000107-07-3	59
2	Acetamide, 2,2,2-trichloro-	161	C2H2Cl3NO	000594-65-0	35
3	Paradrine	151	C9H13NO	000103-86-6	27
4	(-)-Norephedrine	151	C9H13NO	000492-41-1	27
5	2-Amino-1-(o-methoxyphenyl)propane	165	C10H15NO	015402-84-3	27





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022288.D
Acq On : 16 May 2025 14:04
Operator : SY/MD
Sample : Q1982-03
Misc : 11.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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
2-Chloroethanol	2.482	6.9	ug/l	110933	1	7.707	807878	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022272.D
Acq On : 15 May 2025 18:19
Operator : SY/MD
Sample : Q1982-04
Misc : 11.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-4

Quant Time: May 16 01:59:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

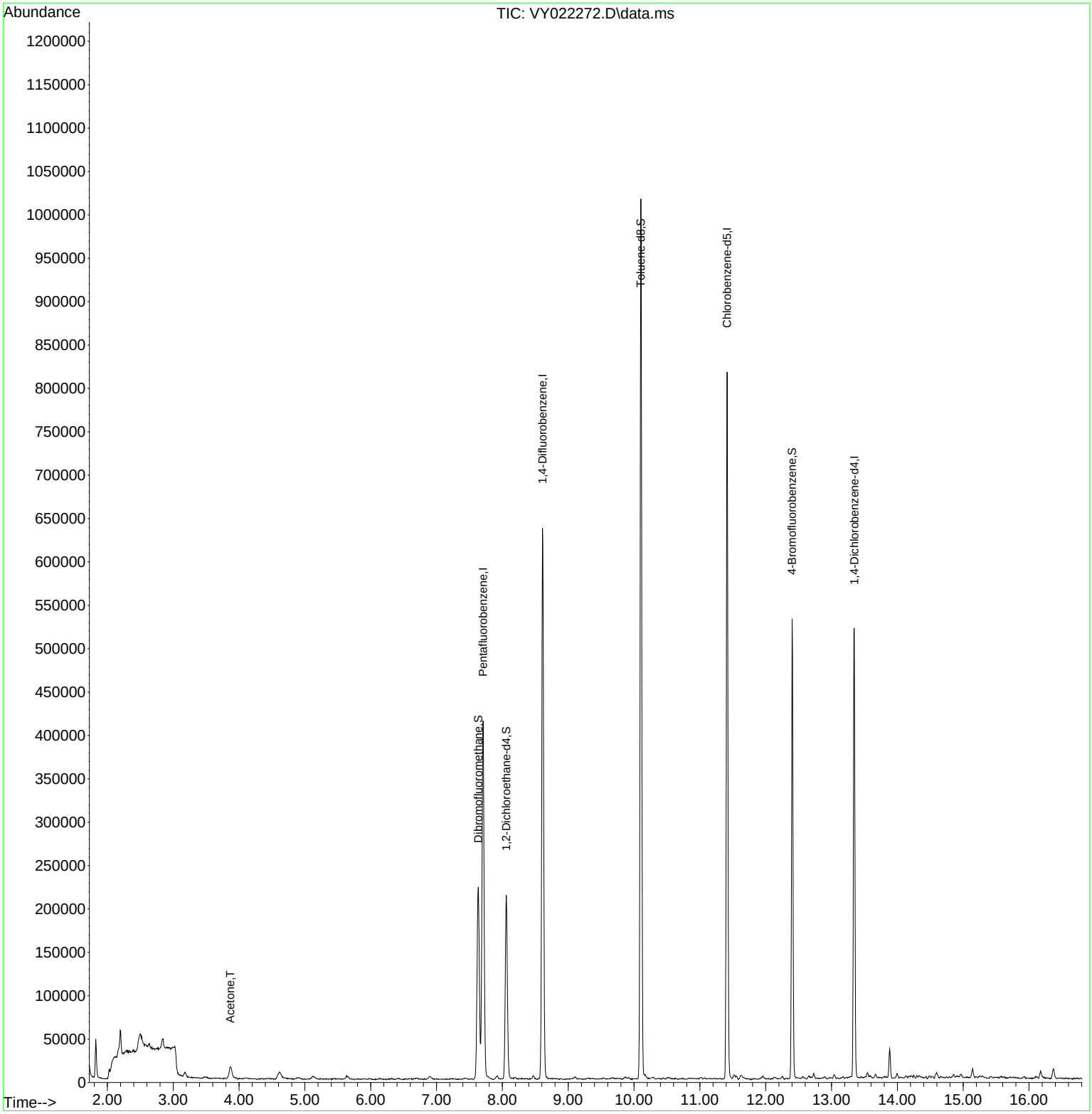
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	303248	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	528458	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	395320	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	123883	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	158040	47.685	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	95.380%		
35) Dibromofluoromethane	7.634	113	154540	48.996	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.000%		
50) Toluene-d8	10.103	98	622264	48.170	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.340%		
62) 4-Bromofluorobenzene	12.401	95	146308	35.732	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	71.460%		
Target Compounds						Qvalue
16) Acetone	3.866	43	26014	41.861	ug/l	98

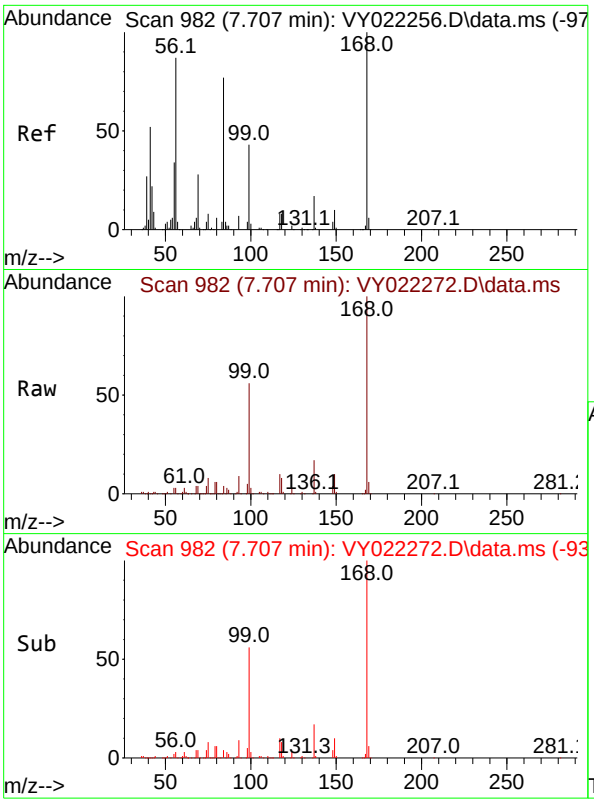
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022272.D
Acq On : 15 May 2025 18:19
Operator : SY/MD
Sample : Q1982-04
Misc : 11.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-4

Quant Time: May 16 01:59:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



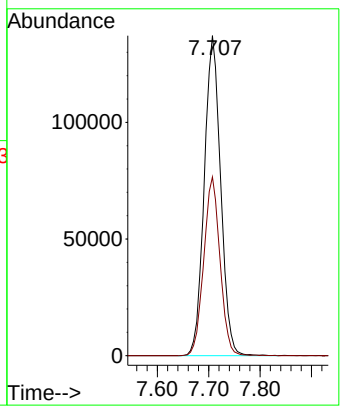


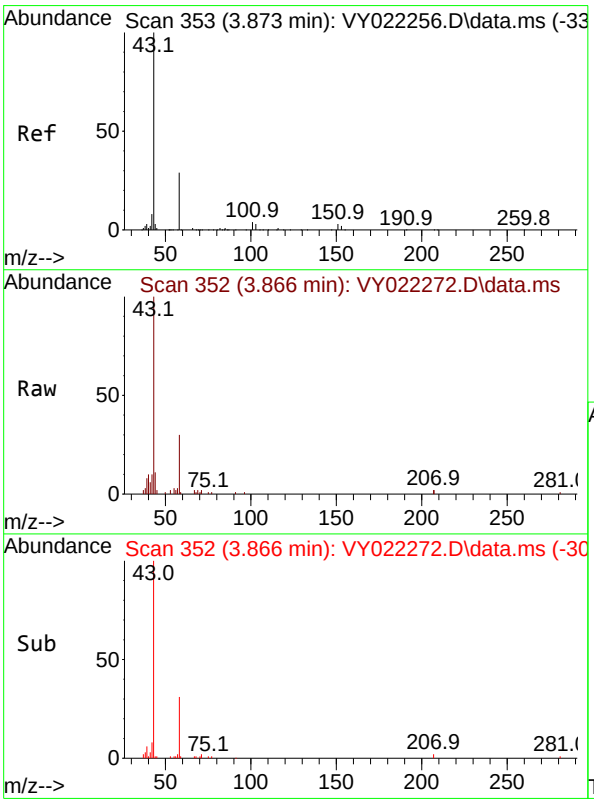
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022272.D
Acq: 15 May 2025 18:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-4

Tgt Ion:168 Resp: 303248

Ion	Ratio	Lower	Upper
168	100		
99	55.9	44.2	66.4

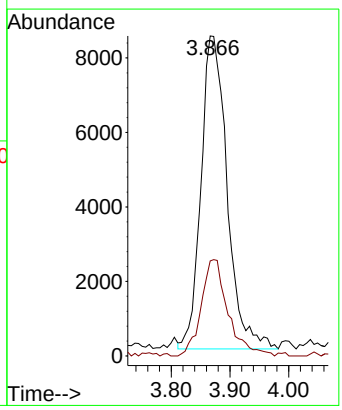


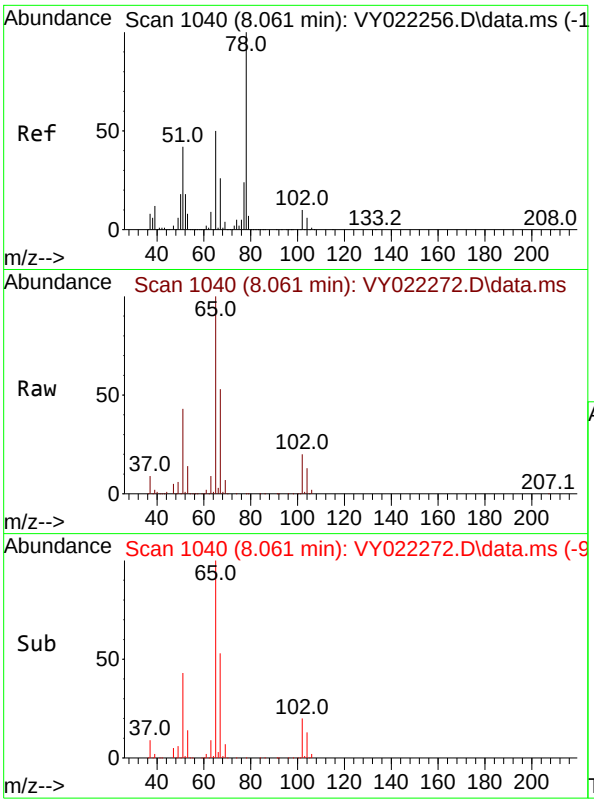


#16
Acetone
Concen: 41.861 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY022272.D
Acq: 15 May 2025 18:19

Tgt Ion: 43 Resp: 26014

Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.6	35.4



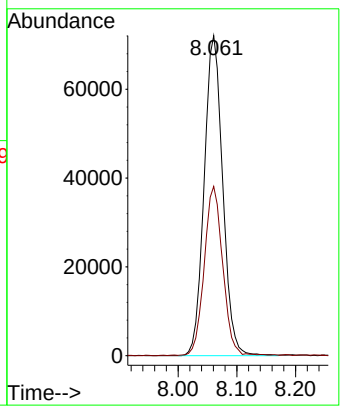


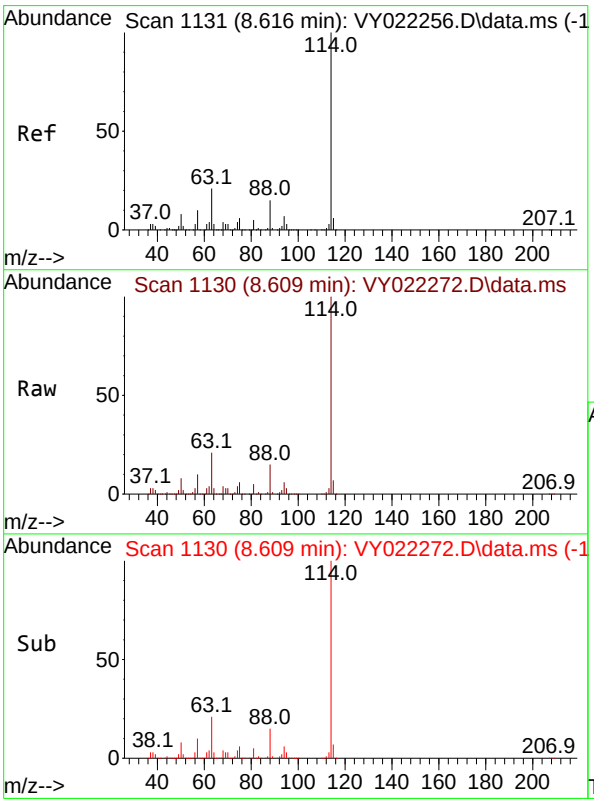
#33
1,2-Dichloroethane-d4
Concen: 47.685 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022272.D
Acq: 15 May 2025 18:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-4

Tgt Ion: 65 Resp: 158040

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	104.6

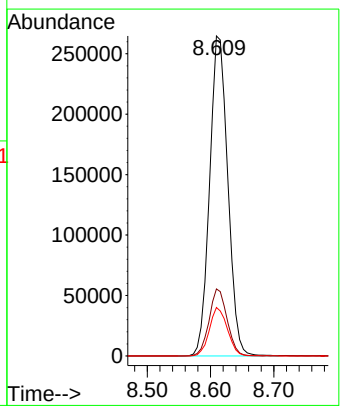


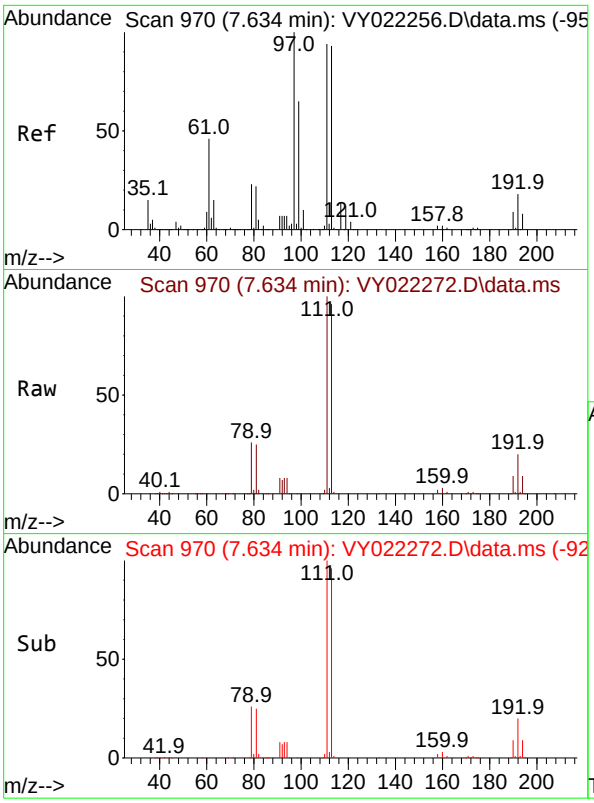


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY022272.D
Acq: 15 May 2025 18:19

Tgt Ion:114 Resp: 528458

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	41.0
88	15.1	0.0	29.4



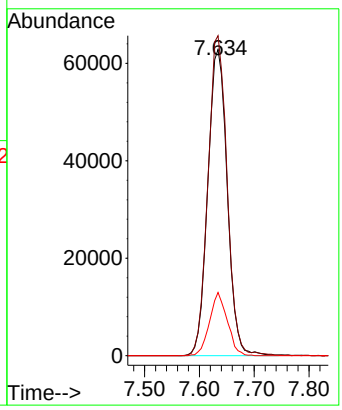


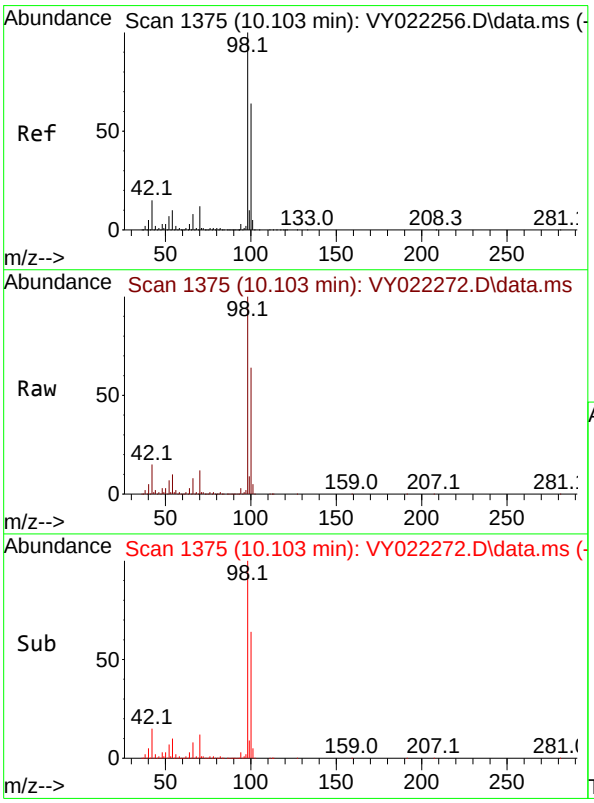
#35
Dibromofluoromethane
Concen: 48.996 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022272.D
Acq: 15 May 2025 18:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-4

Tgt Ion:113 Resp: 154540

Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.6	123.8
192	18.9	15.2	22.8

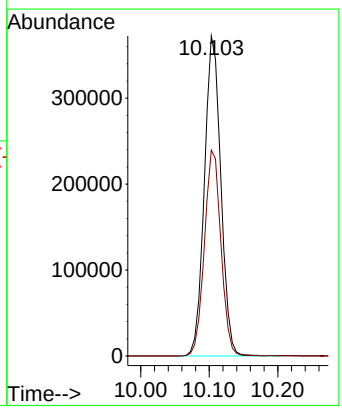


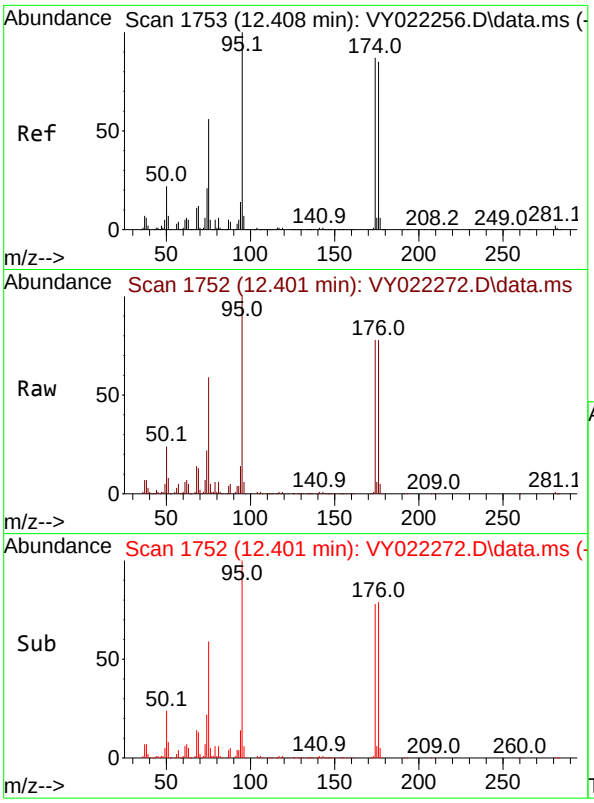


#50
Toluene-d8
Concen: 48.170 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022272.D
Acq: 15 May 2025 18:19

Tgt Ion: 98 Resp: 622264

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.8	77.8



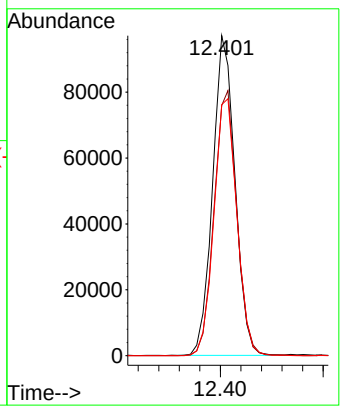


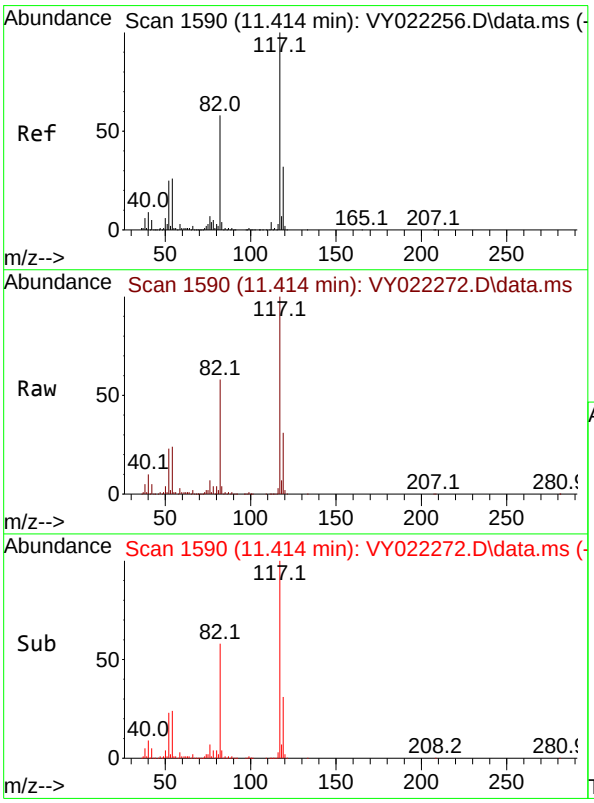
#62
4-Bromofluorobenzene
Concen: 35.732 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022272.D
Acq: 15 May 2025 18:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-4

Tgt Ion: 95 Resp: 146308

Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	166.8
176	82.7	0.0	160.8

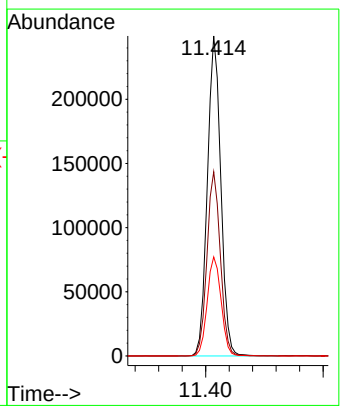


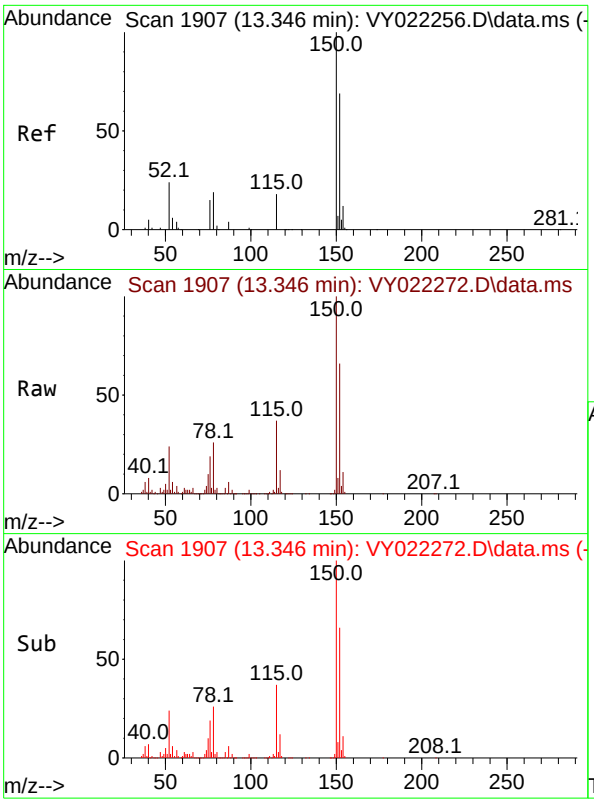


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY022272.D
Acq: 15 May 2025 18:19

Tgt Ion:117 Resp: 395320

Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.6	70.0
119	30.9	25.8	38.6



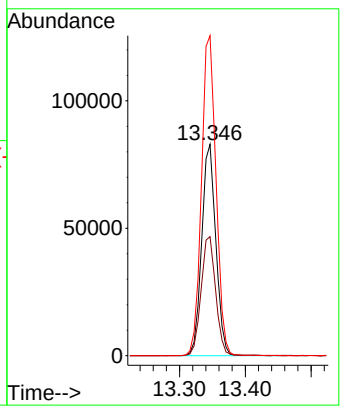


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022272.D
Acq: 15 May 2025 18:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-4

Tgt Ion:152 Resp: 123883

Ion	Ratio	Lower	Upper
152	100		
115	58.2	29.4	88.2
150	156.1	0.0	353.8



Sample Results: **VY022272.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022272.D
Acq On : 15 May 2025 18:19
Operator : SY/MD
Sample : Q1982-04
Misc : 11.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-4

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022272.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	12	17	27	rVB	44718	61163	3.58%	0.748%
2	2.110	52	64	65	rVV5	17154	55126	3.23%	0.674%
3	2.196	70	78	83	rVV	30644	75880	4.44%	0.928%
4	3.866	342	352	361	rBV2	13389	41798	2.45%	0.511%
5	4.616	465	475	482	rBV5	8356	30707	1.80%	0.376%
6	7.634	956	970	976	rBV	222089	547325	32.06%	6.693%
7	7.707	976	982	995	rVB	410890	899037	52.66%	10.994%
8	8.061	1031	1040	1053	rBV	211602	466483	27.32%	5.705%
9	8.609	1122	1130	1144	rVB	634939	1261427	73.88%	15.426%
10	10.103	1366	1375	1383	rBV	1014580	1707354	100.00%	20.879%
11	11.414	1582	1590	1603	rBV	814798	1310219	76.74%	16.022%
12	12.401	1746	1752	1761	rBV	529291	811607	47.54%	9.925%
13	13.346	1900	1907	1916	rVB	517504	810936	47.50%	9.917%
14	13.883	1990	1995	2001	rVB	33864	55270	3.24%	0.676%
15	15.145	2196	2202	2208	rVB2	10647	18165	1.06%	0.222%
16	16.370	2397	2403	2410	rVB4	11296	24895	1.46%	0.304%

Sum of corrected areas: 8177392

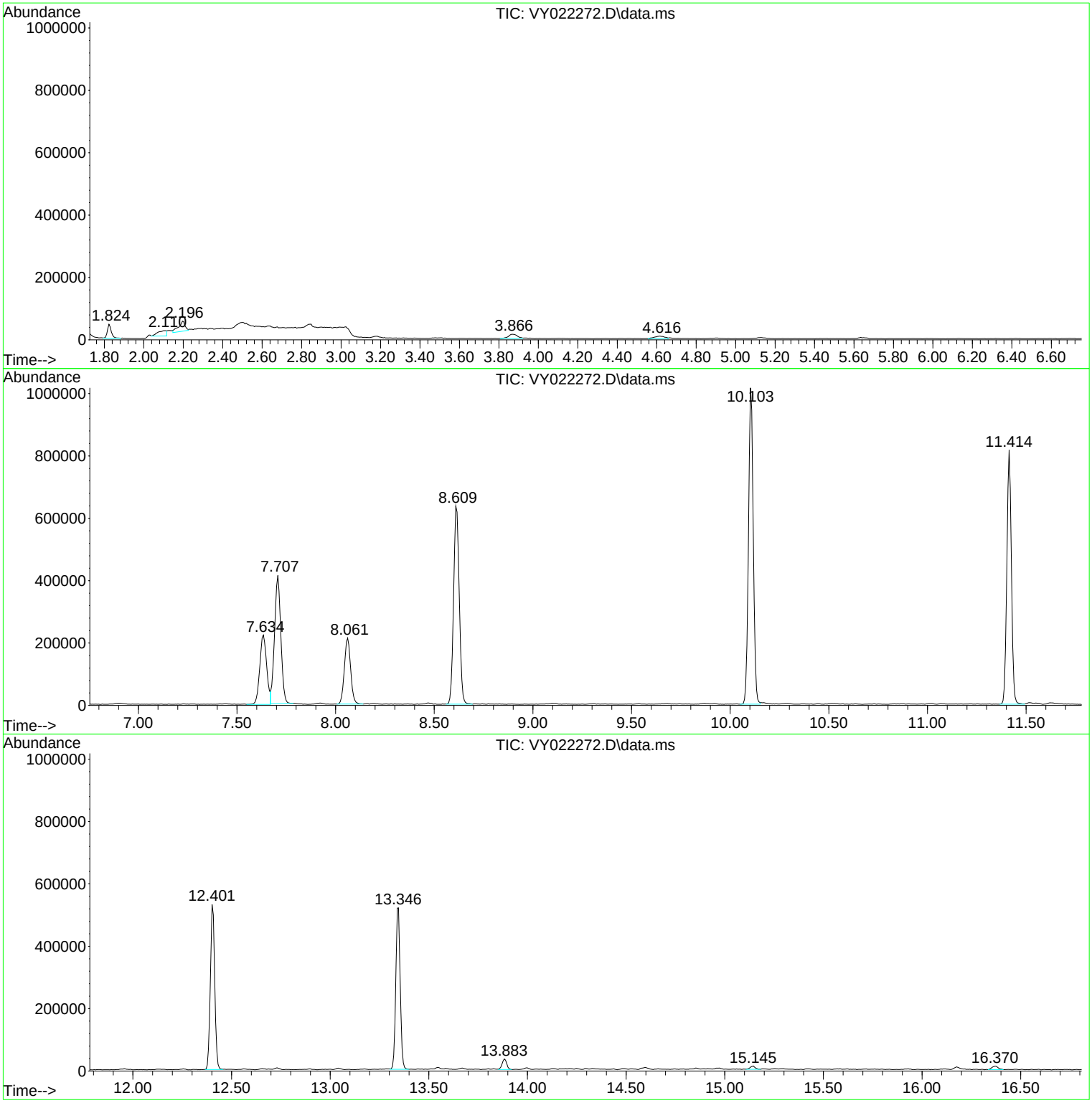
Sample Results: **VY022272.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022272.D
Acq On : 15 May 2025 18:19
Operator : SY/MD
Sample : Q1982-04
Misc : 11.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VY022272.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022272.D
Acq On : 15 May 2025 18:19
Operator : SY/MD
Sample : Q1982-04
Misc : 11.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY051525\
Data File : VY022272.D
Acq On : 15 May 2025 18:19
Operator : SY/MD
Sample : Q1982-04
Misc : 11.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY051525\
Data File : VY022273.D
Acq On : 15 May 2025 18:43
Operator : SY/MD
Sample : Q1982-05
Misc : 10.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-5

Quant Time: May 16 01:59:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

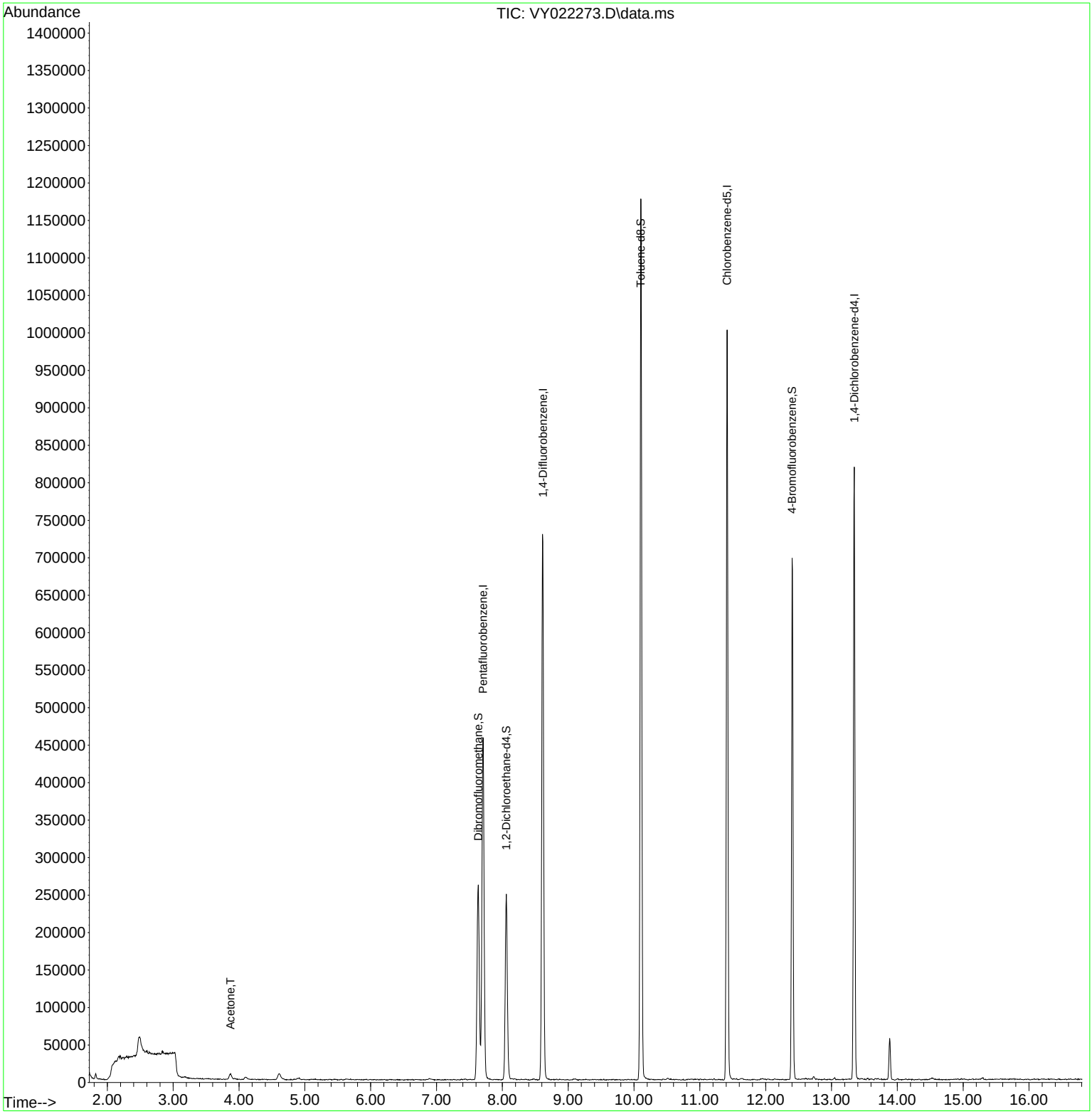
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	345998	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	610490	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	492184	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	188552	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	185906	49.163	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.320%			
35) Dibromofluoromethane	7.634	113	179801	49.345	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.680%			
50) Toluene-d8	10.103	98	727999	48.783	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.560%			
62) 4-Bromofluorobenzene	12.402	95	197627	41.780	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 83.560%			
Target Compounds						Qvalue
16) Acetone	3.873	43	12337	17.399	ug/l #	87

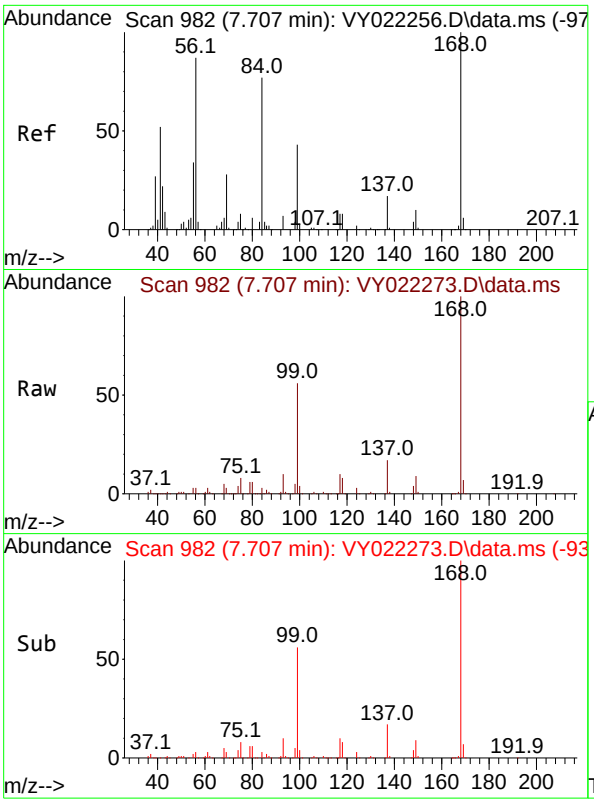
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022273.D
Acq On : 15 May 2025 18:43
Operator : SY/MD
Sample : Q1982-05
Misc : 10.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-5

Quant Time: May 16 01:59:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



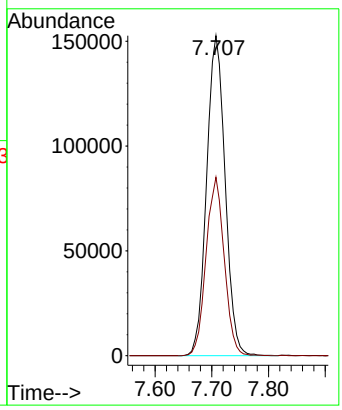


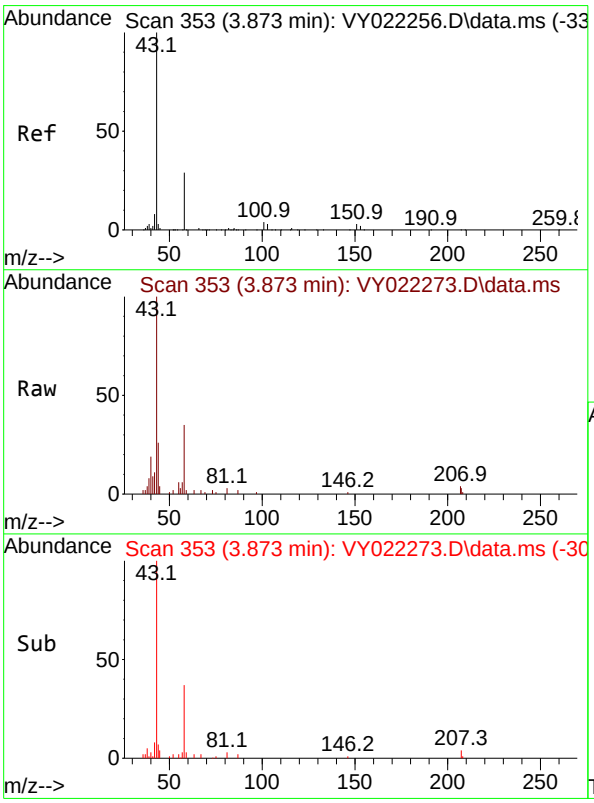
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022273.D
Acq: 15 May 2025 18:43

Instrument :
MSVOA_Y
ClientSampleId :
TP-5

Tgt Ion:168 Resp: 345998

Ion	Ratio	Lower	Upper
168	100		
99	55.8	44.2	66.4

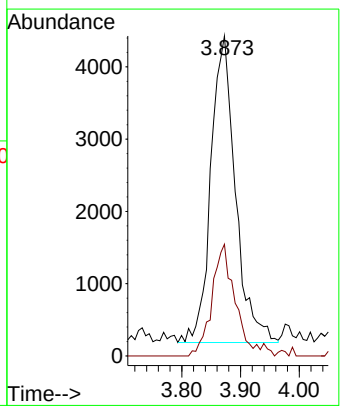


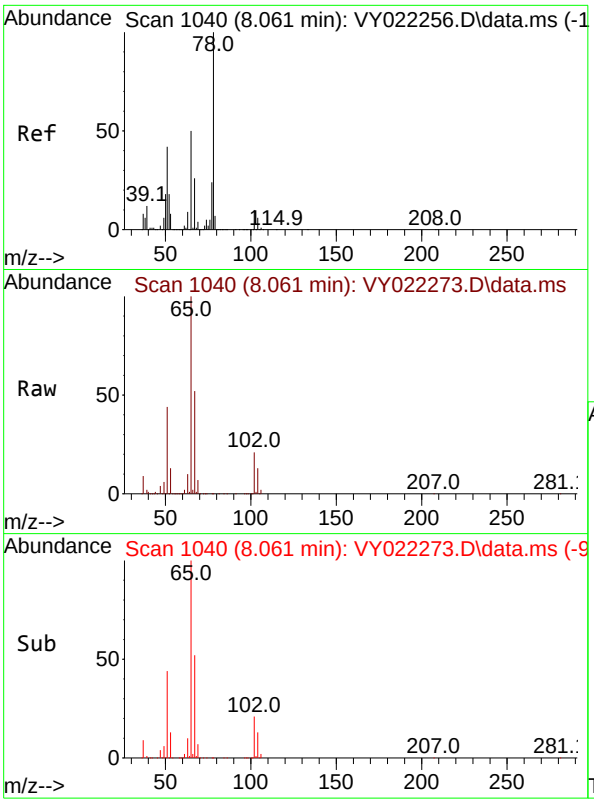


#16
Acetone
Concen: 17.399 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022273.D
Acq: 15 May 2025 18:43

Tgt Ion: 43 Resp: 12337

Ion	Ratio	Lower	Upper
43	100		
58	36.4	23.6	35.4#



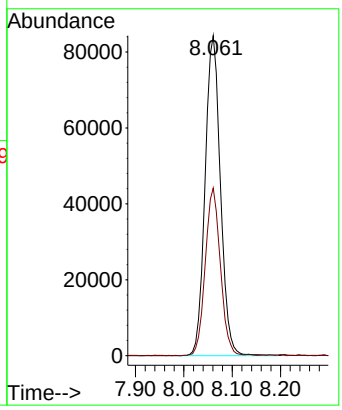


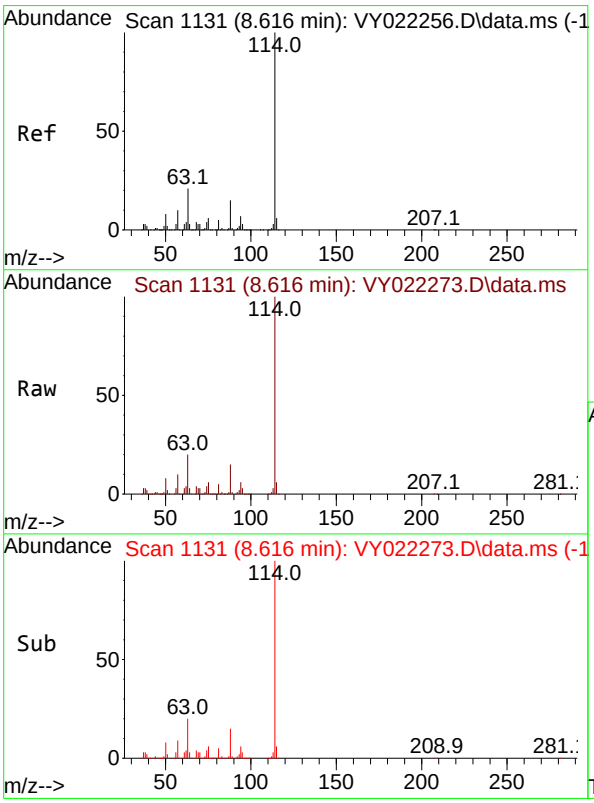
#33
1,2-Dichloroethane-d4
Concen: 49.163 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022273.D
Acq: 15 May 2025 18:43

Instrument :
MSVOA_Y
ClientSampleId :
TP-5

Tgt Ion: 65 Resp: 185906

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	104.6

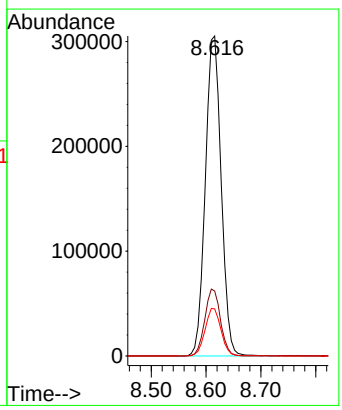


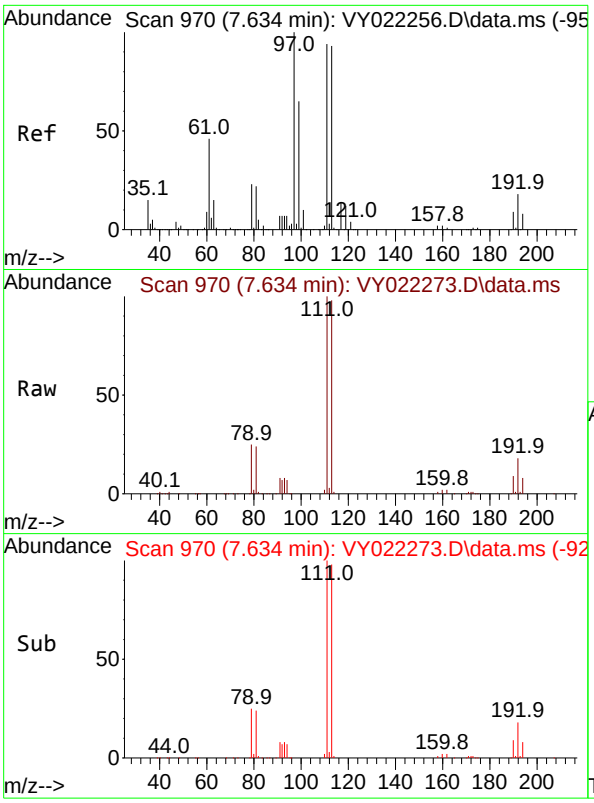


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022273.D
Acq: 15 May 2025 18:43

Tgt Ion:114 Resp: 610490

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	41.0
88	14.7	0.0	29.4



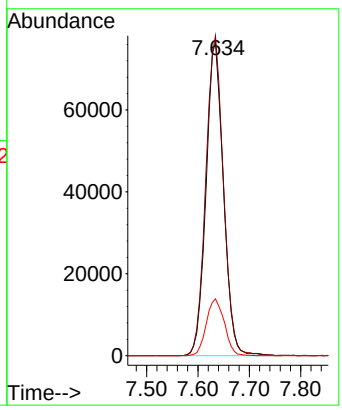


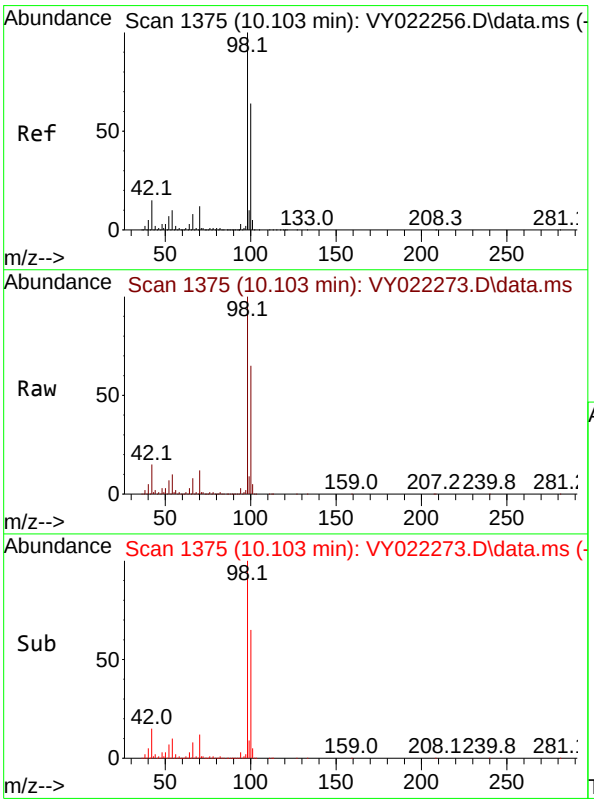
#35
Dibromofluoromethane
Concen: 49.345 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022273.D
Acq: 15 May 2025 18:43

Instrument :
MSVOA_Y
ClientSampleId :
TP-5

Tgt Ion:113 Resp: 179801

Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.6	123.8
192	18.8	15.2	22.8

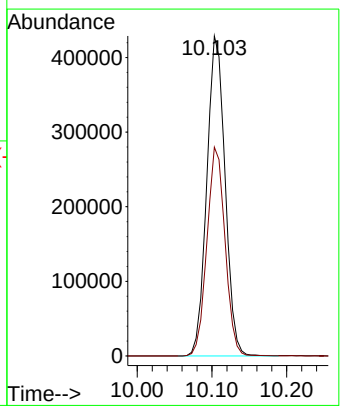


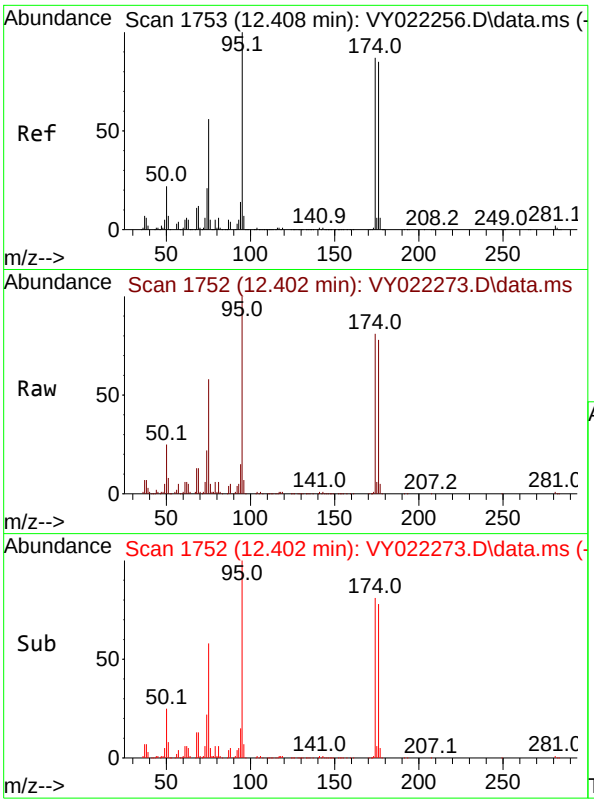


#50
Toluene-d8
Concen: 48.783 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022273.D
Acq: 15 May 2025 18:43

Tgt Ion: 98 Resp: 727999

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.8	77.8



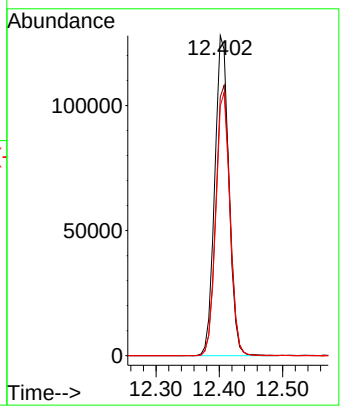


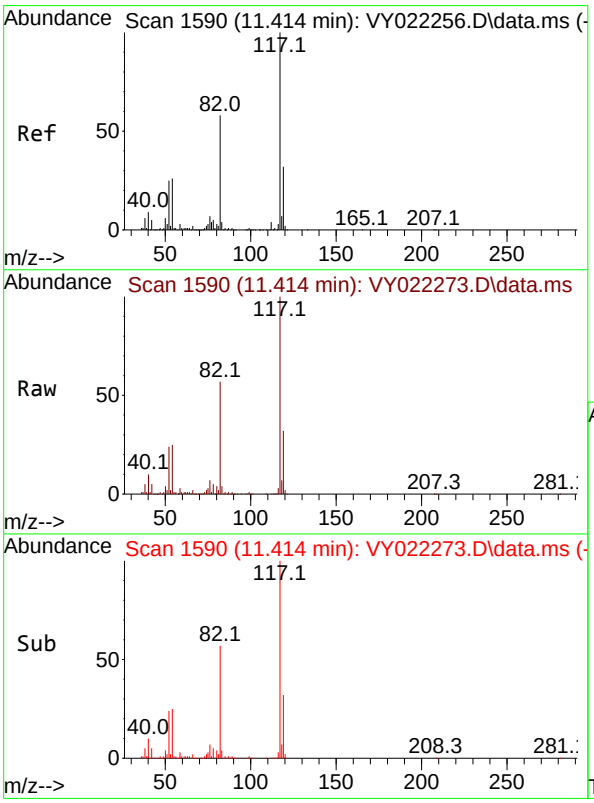
#62
4-Bromofluorobenzene
Concen: 41.780 ug/l
RT: 12.402 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022273.D
Acq: 15 May 2025 18:43

Instrument :
MSVOA_Y
ClientSampleId :
TP-5

Tgt Ion: 95 Resp: 197627

Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	166.8
176	82.0	0.0	160.8

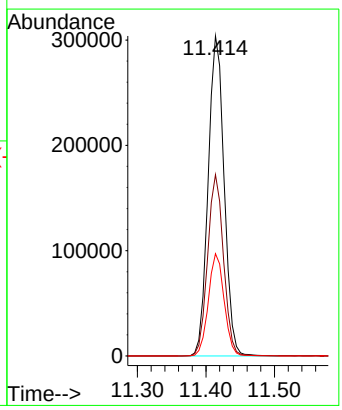


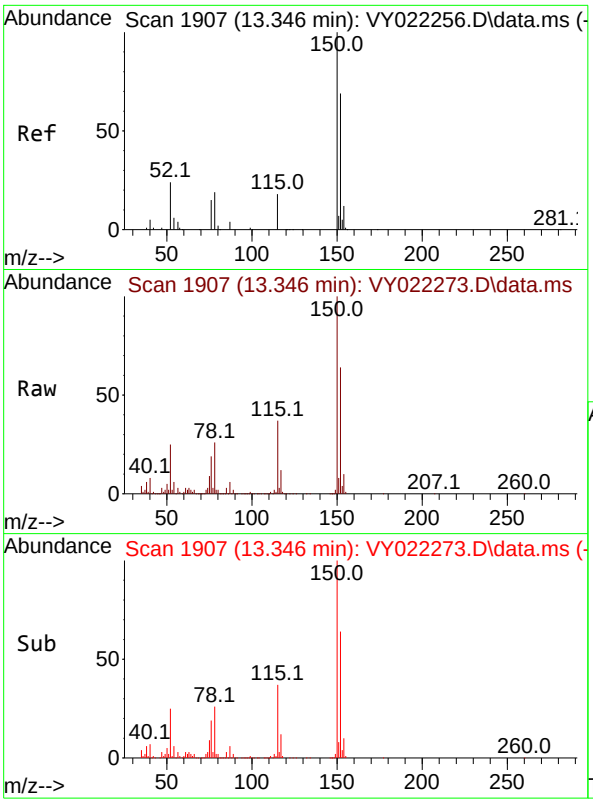


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY022273.D
Acq: 15 May 2025 18:43

Tgt Ion:117 Resp: 492184

Ion	Ratio	Lower	Upper
117	100		
82	56.7	46.6	70.0
119	32.0	25.8	38.6



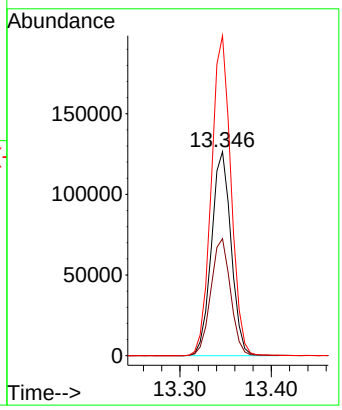


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022273.D
Acq: 15 May 2025 18:43

Instrument :
MSVOA_Y
ClientSampleId :
TP-5

Tgt Ion:152 Resp: 188552

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	156.8	0.0	353.8



Sample Results: **VY022273.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022273.D
Acq On : 15 May 2025 18:43
Operator : SY/MD
Sample : Q1982-05
Misc : 10.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-5

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022273.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	120	126	135	rBV9	19943	64638	3.23%	0.659%
2	4.610	466	474	484	rBV3	7776	24938	1.24%	0.254%
3	7.634	959	970	976	rBV	260042	630933	31.50%	6.434%
4	7.707	976	982	998	rVB	455964	1026450	51.24%	10.468%
5	8.061	1026	1040	1050	rBV	247964	552092	27.56%	5.630%
6	8.610	1121	1130	1145	rBV	728063	1456618	72.71%	14.855%
7	10.103	1366	1375	1387	rBV	1175402	2003199	100.00%	20.429%
8	11.414	1580	1590	1604	rBV	1000913	1620476	80.89%	16.526%
9	12.402	1745	1752	1763	rBV	695485	1100043	54.91%	11.219%
10	13.346	1896	1907	1916	rBV	817010	1237156	61.76%	12.617%
11	13.883	1989	1995	2001	rVB2	55068	89021	4.44%	0.908%

Sum of corrected areas: 9805564

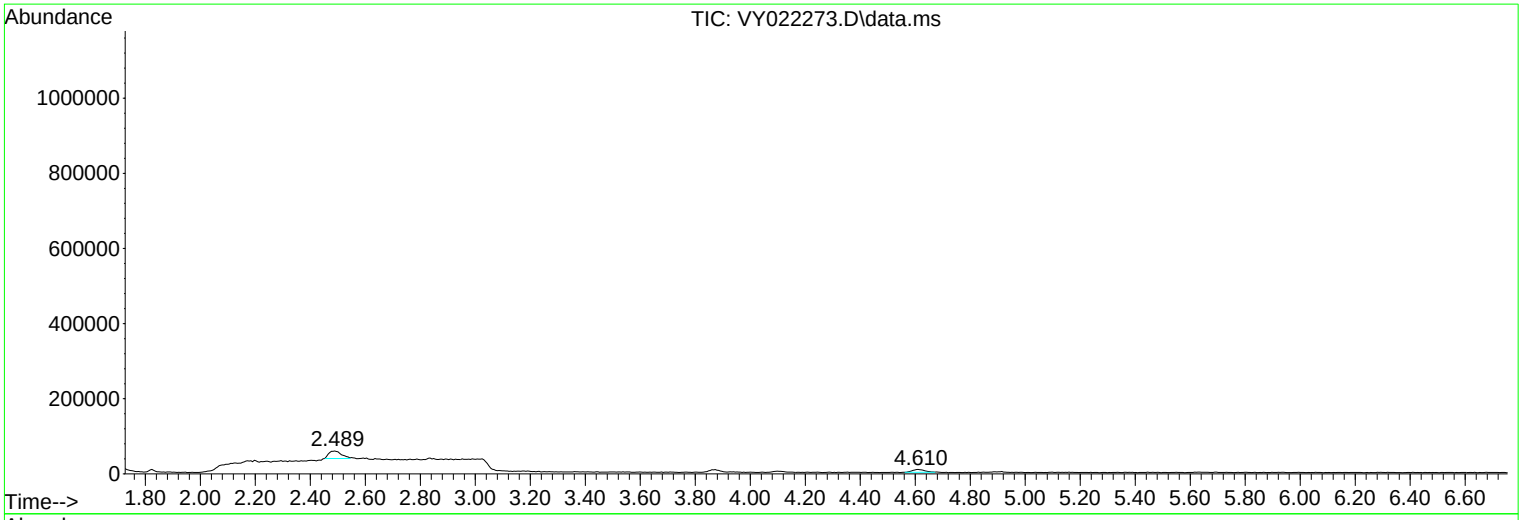
Sample Results: **VY022273.D**

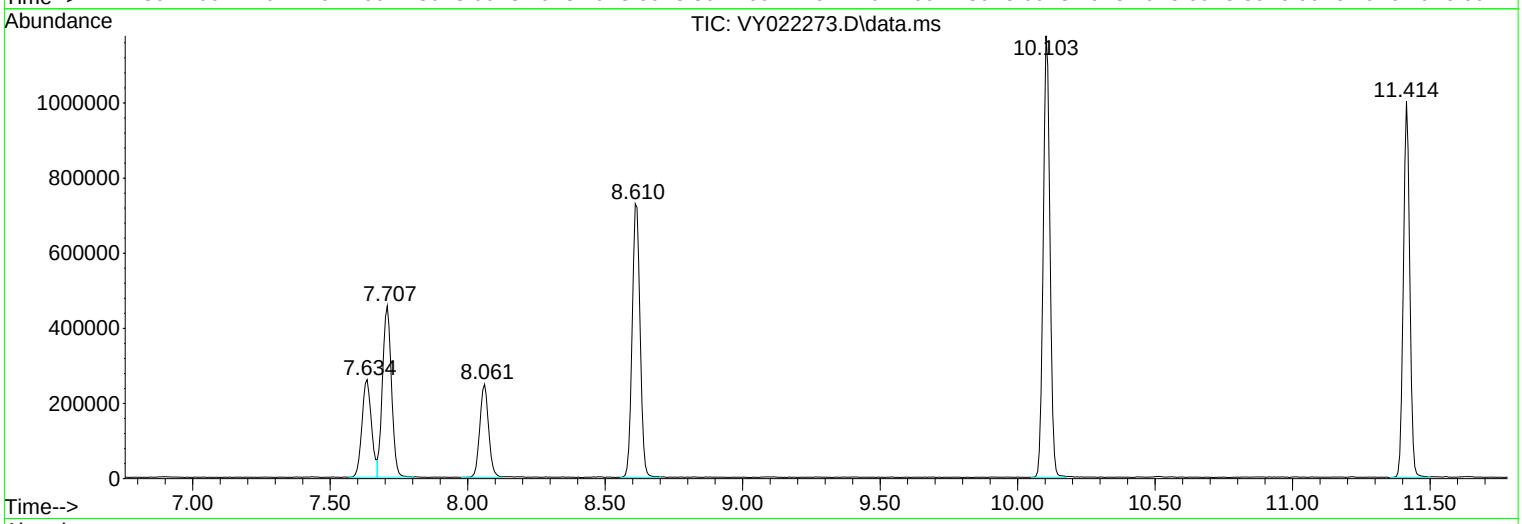
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022273.D
Acq On : 15 May 2025 18:43
Operator : SY/MD
Sample : Q1982-05
Misc : 10.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

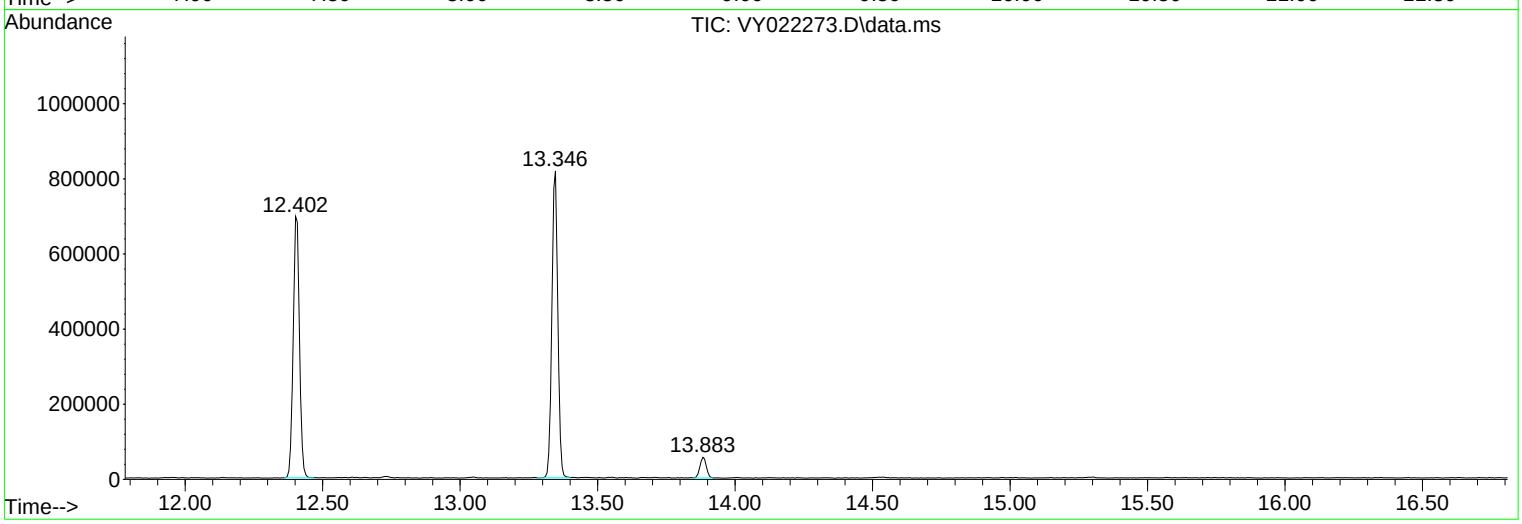
Instrument :
MSVOA_Y
ClientSampleId :
TP-5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022273.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022273.D
Acq On : 15 May 2025 18:43
Operator : SY/MD
Sample : Q1982-05
Misc : 10.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY051525\
Data File : VY022273.D
Acq On : 15 May 2025 18:43
Operator : SY/MD
Sample : Q1982-05
Misc : 10.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022274.D
Acq On : 15 May 2025 19:06
Operator : SY/MD
Sample : Q1982-06
Misc : 3.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-6

Quant Time: May 16 02:00:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

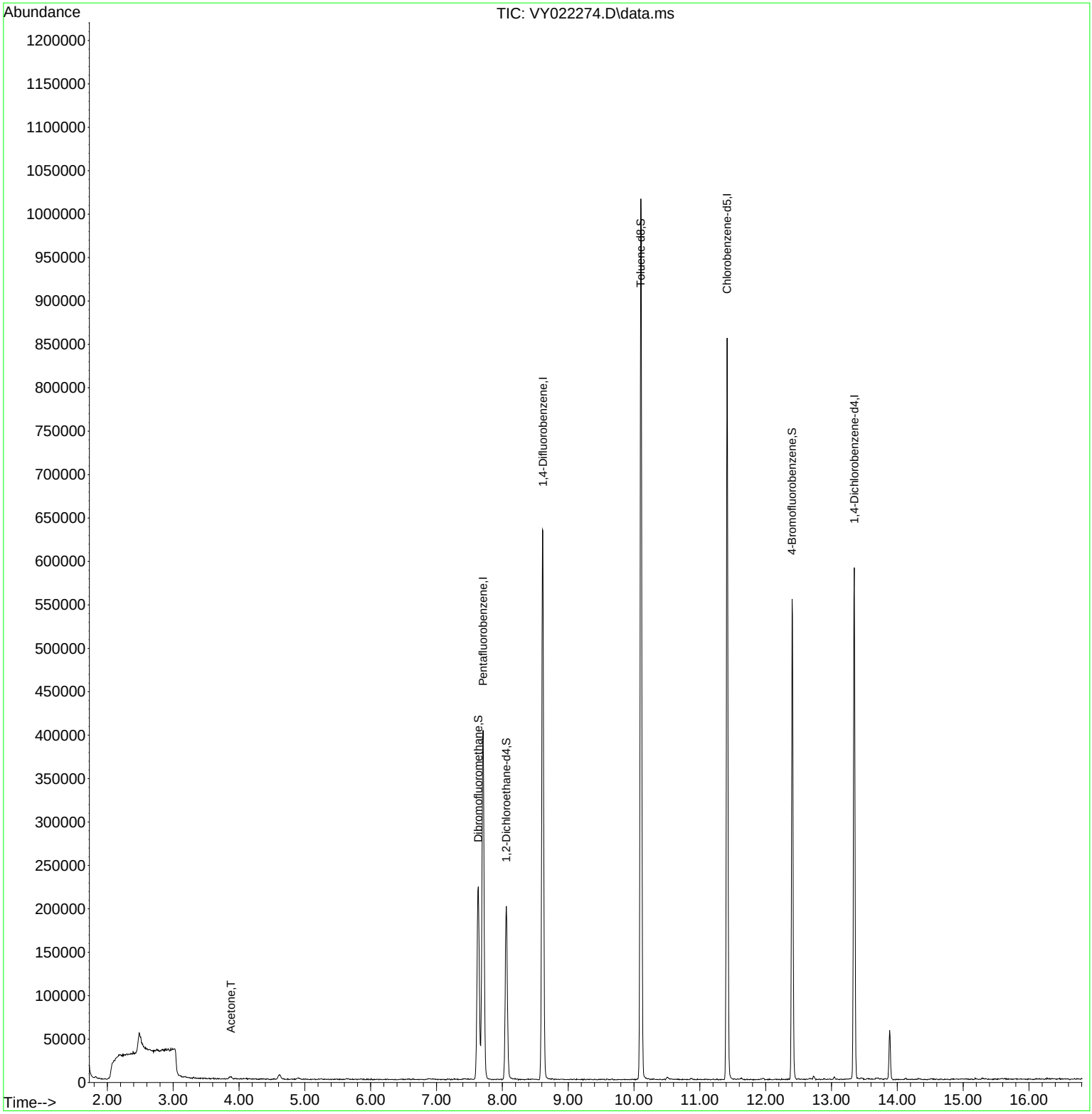
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	302935	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	529384	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	407189	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	138768	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150422	45.434	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 90.860%			
35) Dibromofluoromethane	7.634	113	156818	49.631	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.260%			
50) Toluene-d8	10.103	98	631509	48.800	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.600%			
62) 4-Bromofluorobenzene	12.402	95	155235	37.846	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 75.700%			
Target Compounds						Qvalue
16) Acetone	3.879	43	5797	9.338	ug/l	91

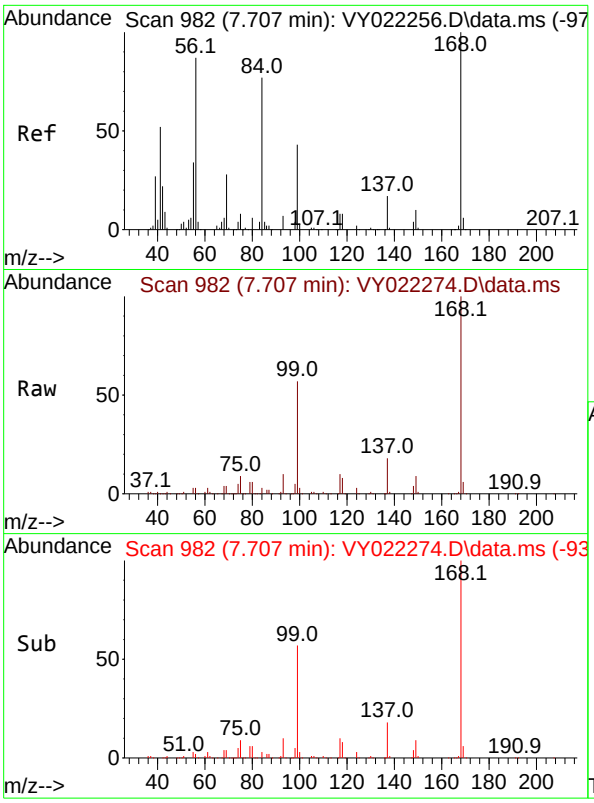
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022274.D
Acq On : 15 May 2025 19:06
Operator : SY/MD
Sample : Q1982-06
Misc : 3.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-6

Quant Time: May 16 02:00:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



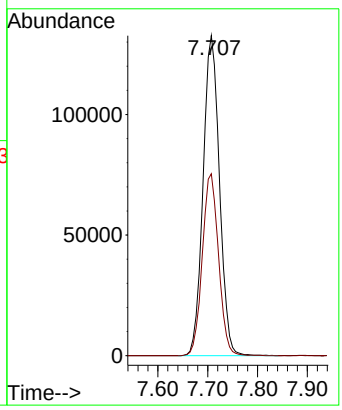


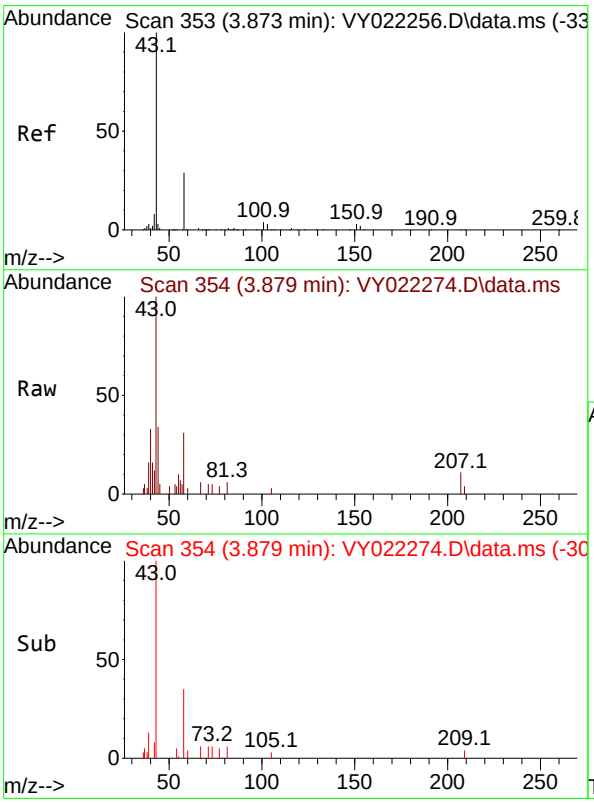
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022274.D
Acq: 15 May 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-6

Tgt Ion:168 Resp: 302935

Ion	Ratio	Lower	Upper
168	100		
99	56.9	44.2	66.4

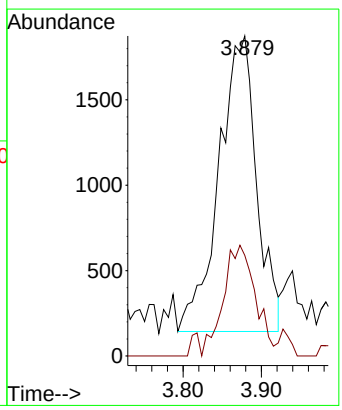


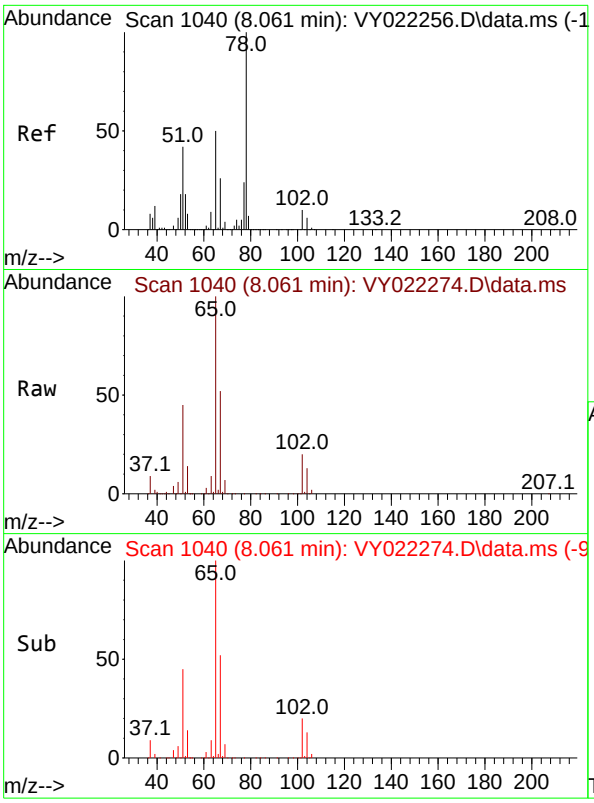


#16
Acetone
Concen: 9.338 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022274.D
Acq: 15 May 2025 19:06

Tgt Ion: 43 Resp: 5797

Ion	Ratio	Lower	Upper
43	100		
58	34.1	23.6	35.4



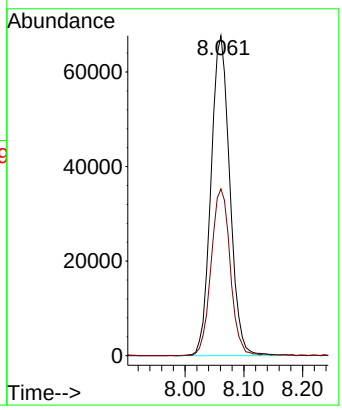


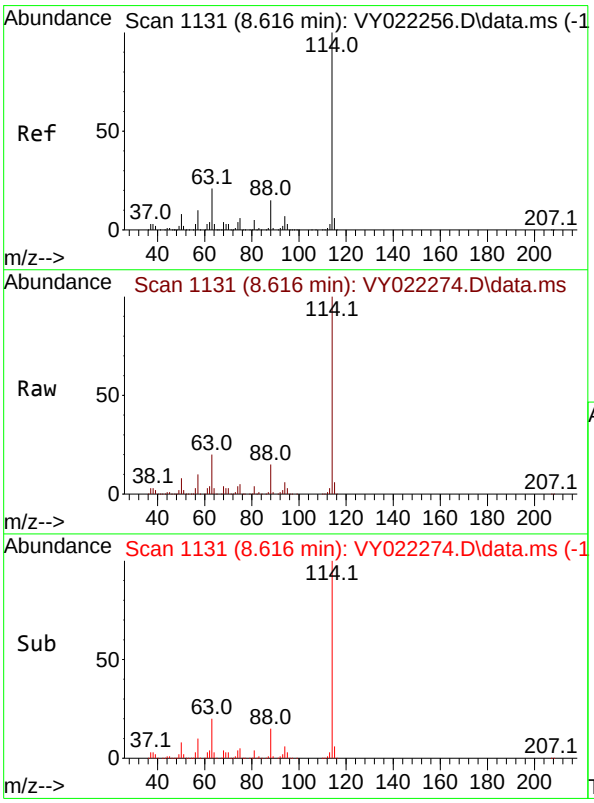
#33
1,2-Dichloroethane-d4
Concen: 45.434 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022274.D
Acq: 15 May 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-6

Tgt Ion: 65 Resp: 150422

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	104.6

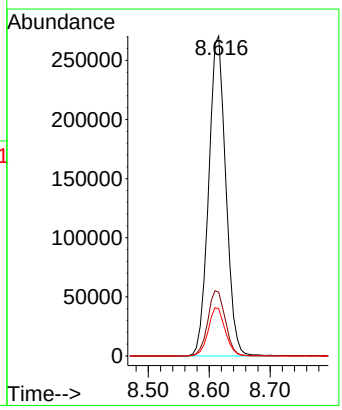


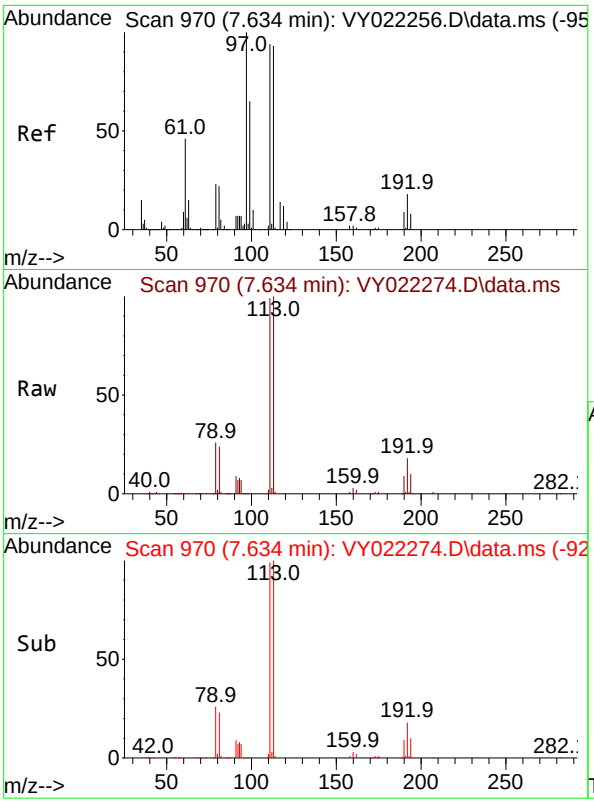


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022274.D
Acq: 15 May 2025 19:06

Tgt Ion:114 Resp: 529384

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	41.0
88	14.7	0.0	29.4



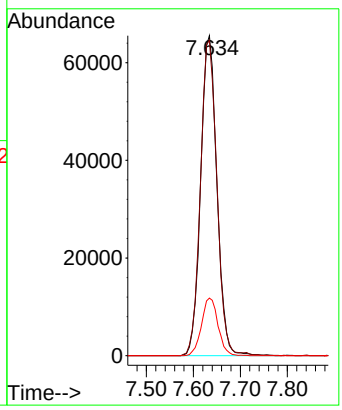


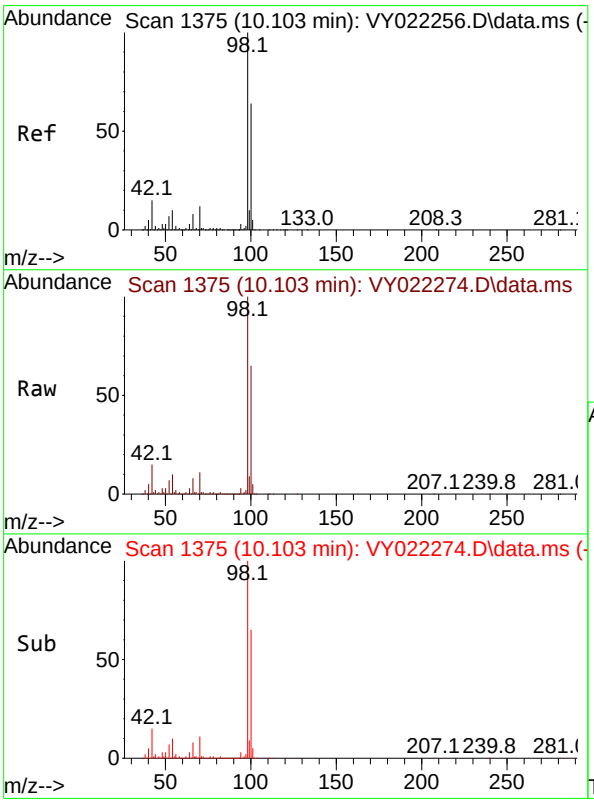
#35
Dibromofluoromethane
Concen: 49.631 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022274.D
Acq: 15 May 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-6

Tgt Ion:113 Resp: 156818

Ion	Ratio	Lower	Upper
113	100		
111	100.3	82.6	123.8
192	18.3	15.2	22.8

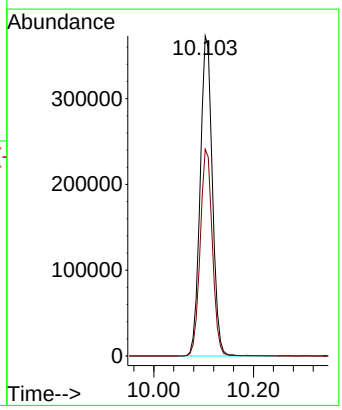




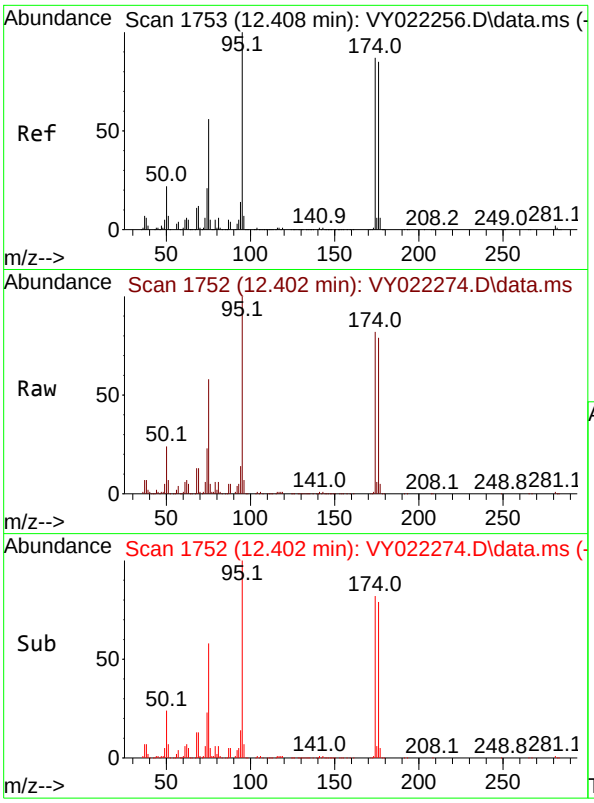
#50
Toluene-d8
Concen: 48.800 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022274.D
Acq: 15 May 2025 19:06

Tgt Ion: 98 Resp: 631509

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.8	77.8



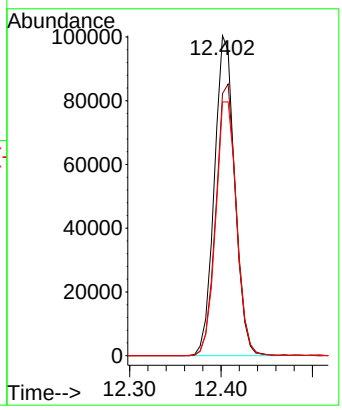
Instrument :
MSVOA_Y
ClientSampleId :
TP-6

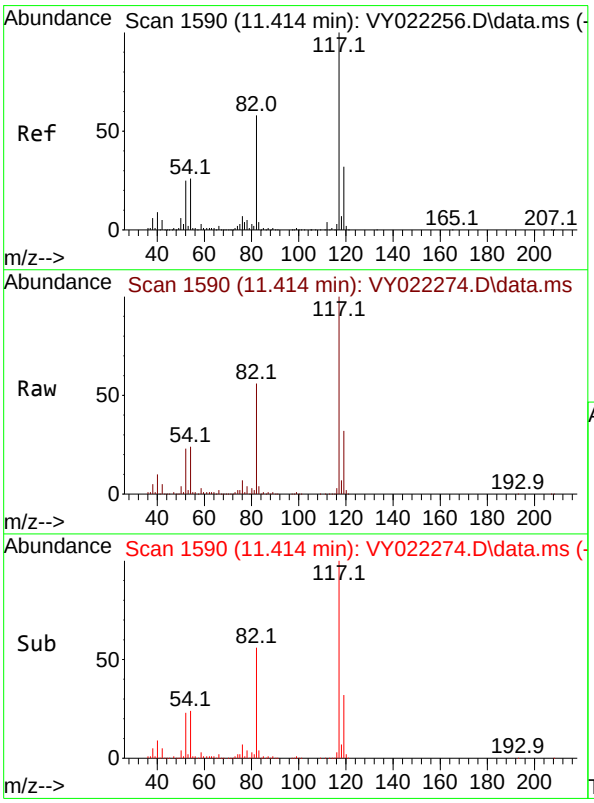


#62
4-Bromofluorobenzene
Concen: 37.846 ug/l
RT: 12.402 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022274.D
Acq: 15 May 2025 19:06

Tgt Ion: 95 Resp: 155235

Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	166.8
176	81.5	0.0	160.8

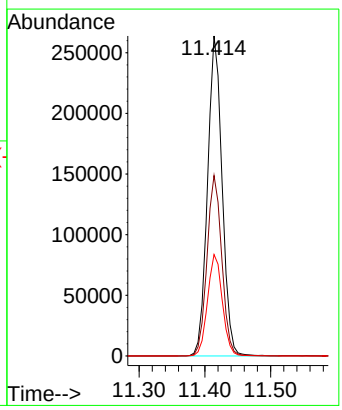


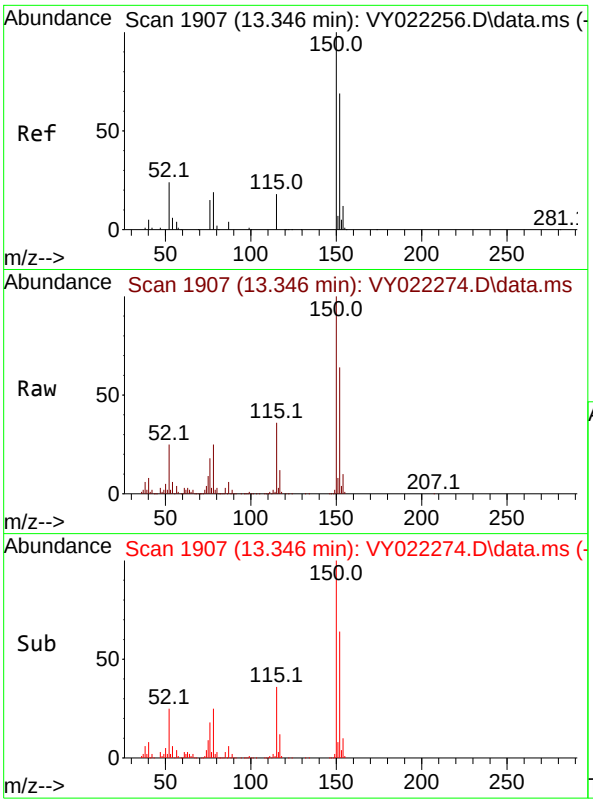


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY022274.D
Acq: 15 May 2025 19:06

Tgt Ion:117 Resp: 407189

Ion	Ratio	Lower	Upper
117	100		
82	56.4	46.6	70.0
119	31.7	25.8	38.6



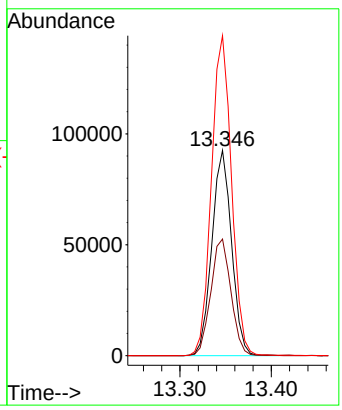


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022274.D
Acq: 15 May 2025 19:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-6

Tgt Ion:152 Resp: 138768

Ion	Ratio	Lower	Upper
152	100		
115	58.1	29.4	88.2
150	158.7	0.0	353.8



Sample Results: **VY022274.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022274.D
Acq On : 15 May 2025 19:06
Operator : SY/MD
Sample : Q1982-06
Misc : 3.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-6

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022274.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.099	50	62	64	rBV5	20525	67606	3.92%	0.821%
2	2.483	121	125	136	rVB6	16468	44141	2.56%	0.536%
3	7.634	958	970	976	rBV	221930	538231	31.17%	6.538%
4	7.707	976	982	1000	rVB	401883	909657	52.68%	11.050%
5	8.061	1031	1040	1052	rBV	199287	447530	25.92%	5.436%
6	8.610	1121	1130	1146	rBV	633553	1268170	73.45%	15.405%
7	10.103	1367	1375	1387	rBV	1013712	1726670	100.00%	20.975%
8	11.414	1583	1590	1604	rBV	853997	1345947	77.95%	16.350%
9	12.402	1745	1752	1763	rBV	553170	876485	50.76%	10.647%
10	13.346	1898	1907	1914	rBV	588744	914292	52.95%	11.107%
11	13.883	1988	1995	2004	rVB2	57170	93292	5.40%	1.133%

Sum of corrected areas: 8232021

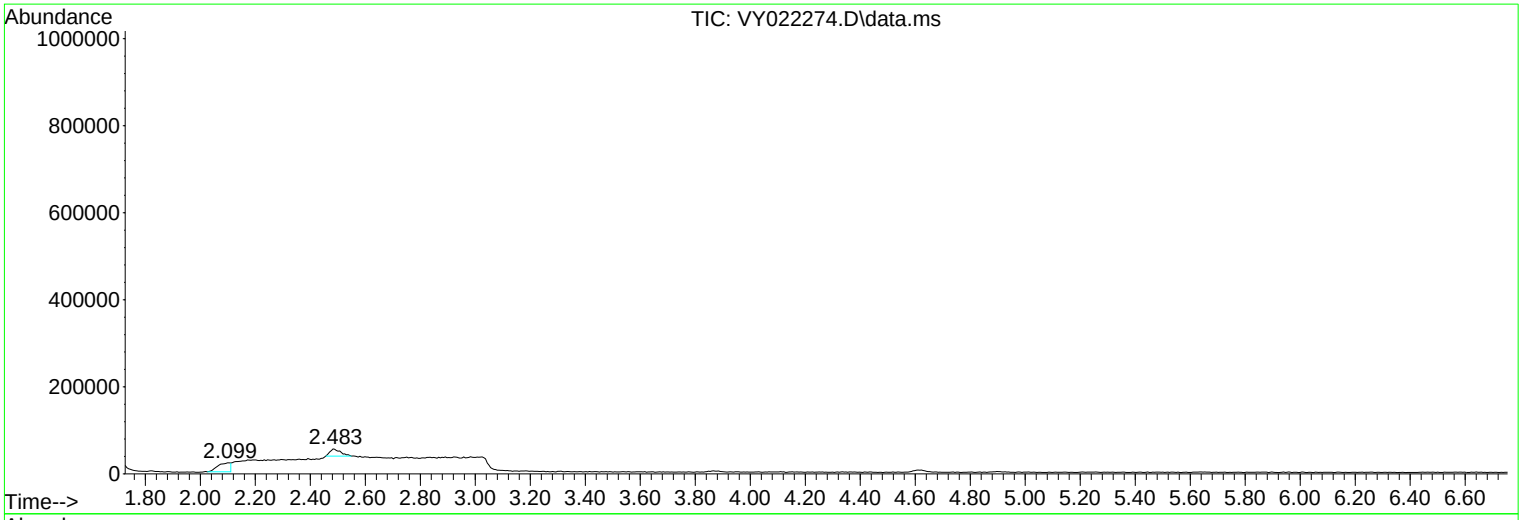
Sample Results: **VY022274.D**

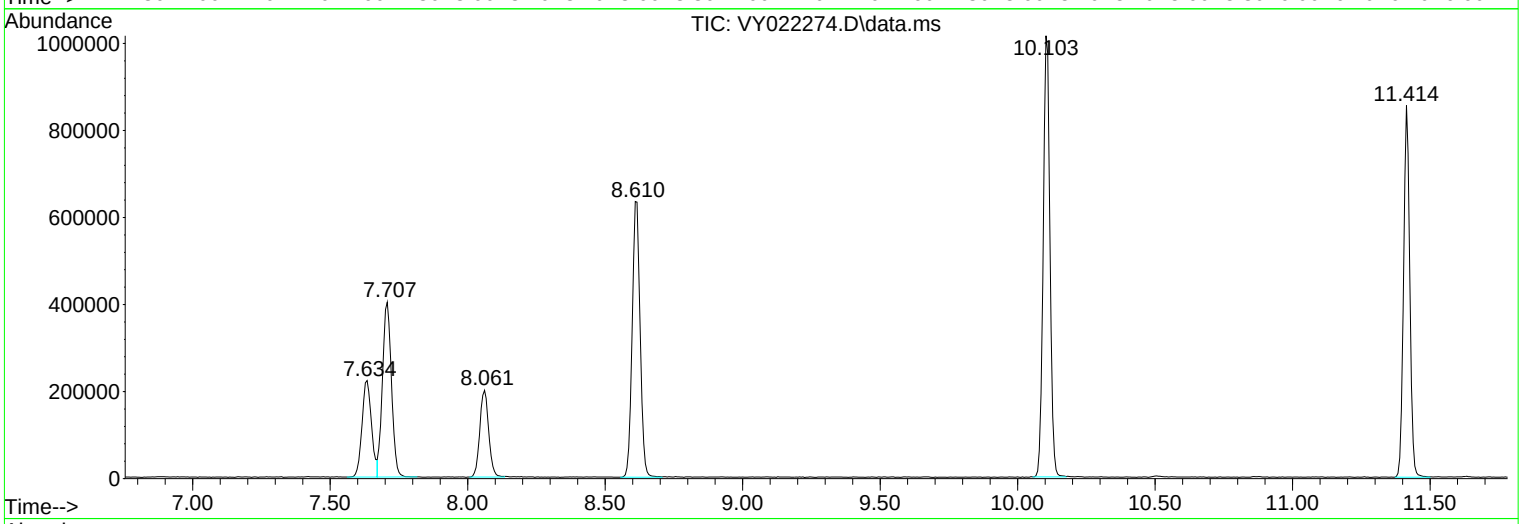
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022274.D
Acq On : 15 May 2025 19:06
Operator : SY/MD
Sample : Q1982-06
Misc : 3.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

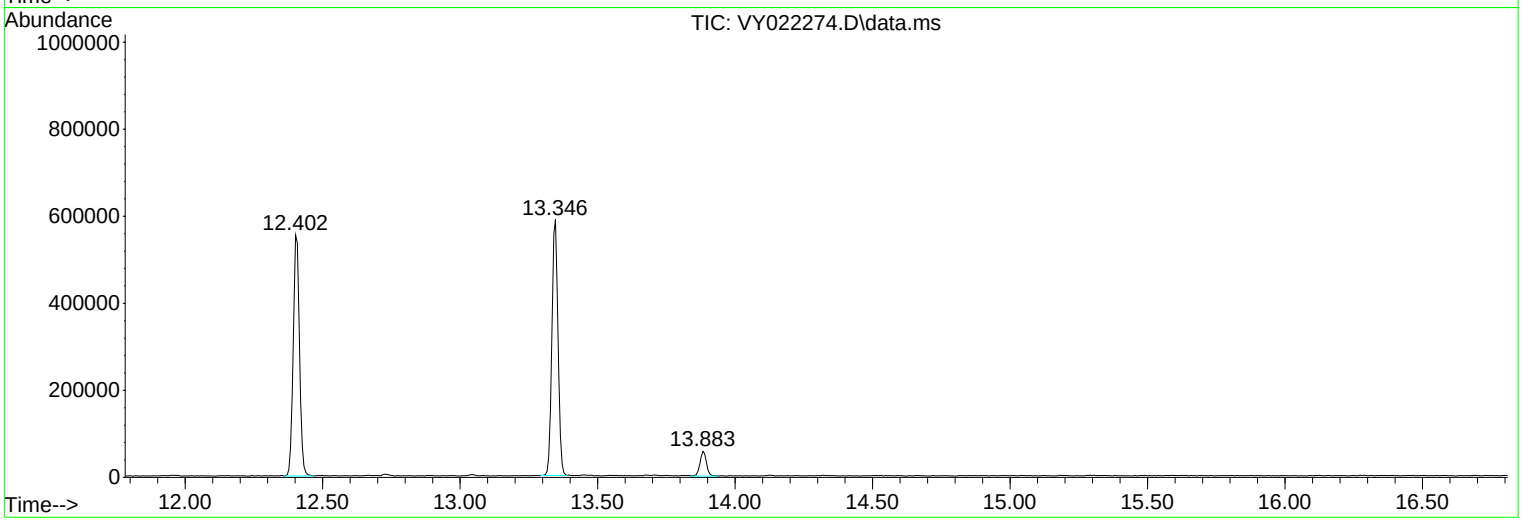
Instrument :
MSVOA_Y
ClientSampleId :
TP-6

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022274.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022274.D
Acq On : 15 May 2025 19:06
Operator : SY/MD
Sample : Q1982-06
Misc : 3.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-6

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY051525\
Data File : VY022274.D
Acq On : 15 May 2025 19:06
Operator : SY/MD
Sample : Q1982-06
Misc : 3.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-6

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022289.D
Acq On : 16 May 2025 14:28
Operator : SY/MD
Sample : Q1982-07
Misc : 7.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-8

Quant Time: May 17 01:33:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	265944	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	467527	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	335264	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	97059	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	132106	45.452	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	90.900%		
35) Dibromofluoromethane	7.634	113	135434	48.534	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	97.060%		
50) Toluene-d8	10.103	98	540727	47.314	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	94.620%		
62) 4-Bromofluorobenzene	12.401	95	141558	39.078	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	78.160%		

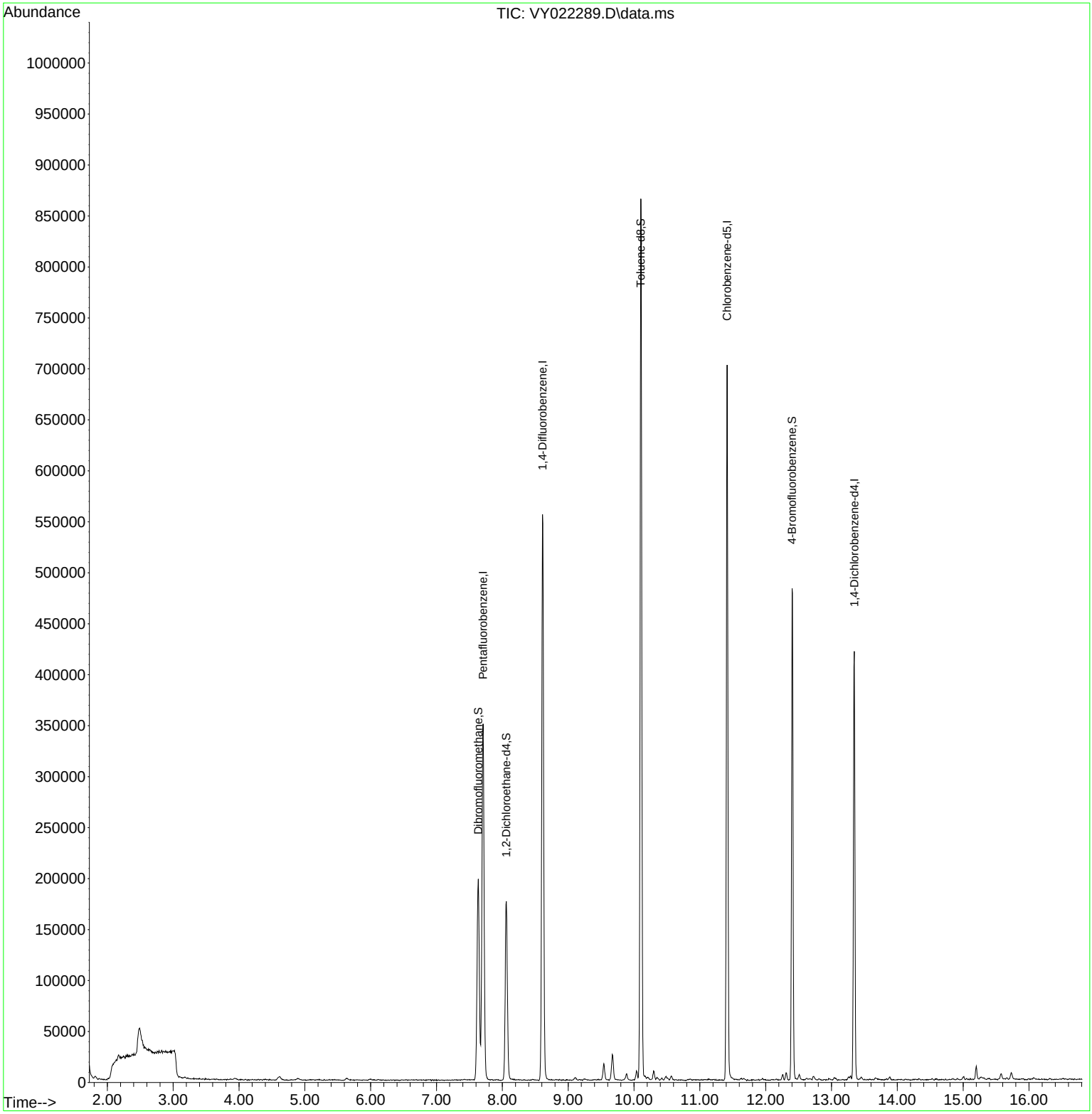
Target Compounds Qvalue

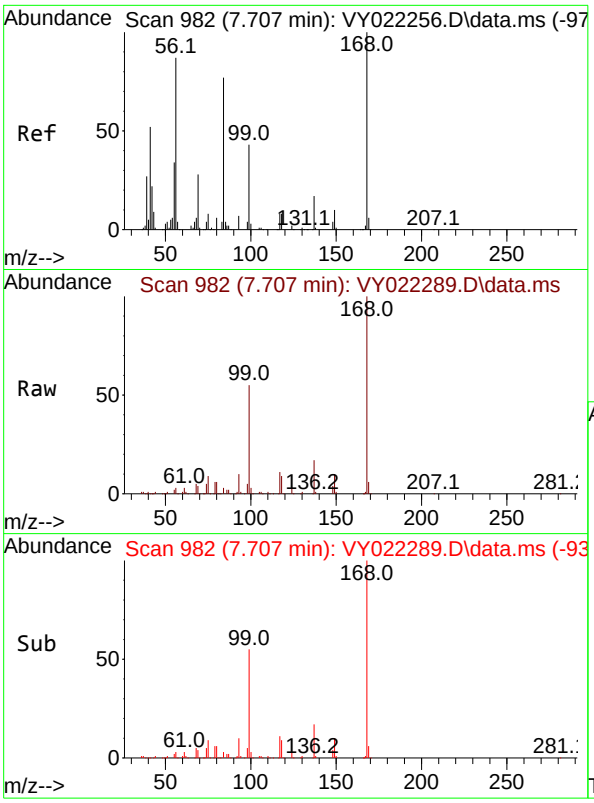
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022289.D
Acq On : 16 May 2025 14:28
Operator : SY/MD
Sample : Q1982-07
Misc : 7.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-8

Quant Time: May 17 01:33:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



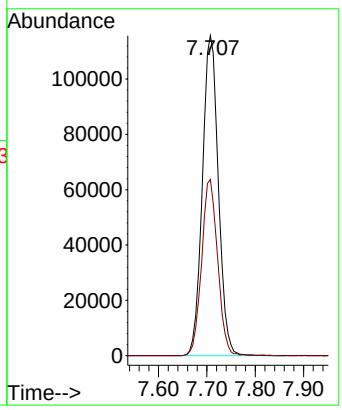


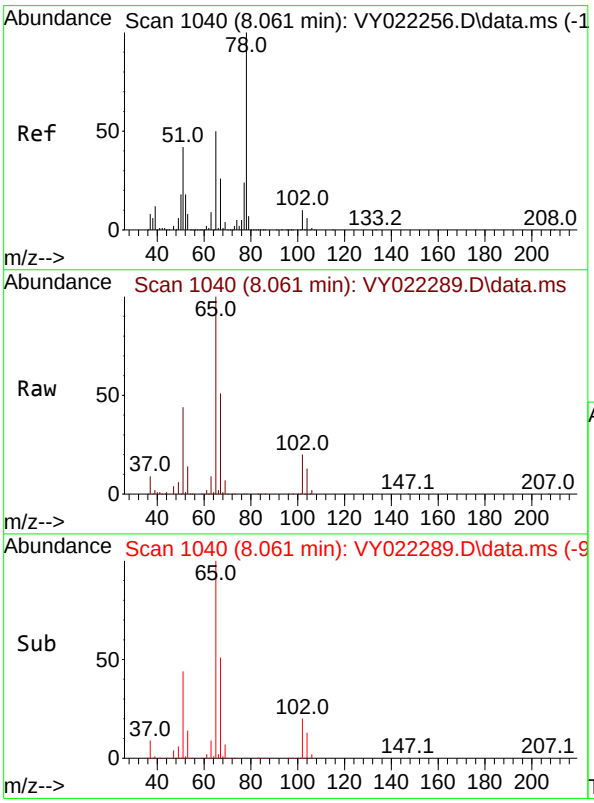
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022289.D
Acq: 16 May 2025 14:28

Instrument :
MSVOA_Y
ClientSampleId :
TP-8

Tgt Ion:168 Resp: 265944

Ion	Ratio	Lower	Upper
168	100		
99	55.1	44.2	66.4

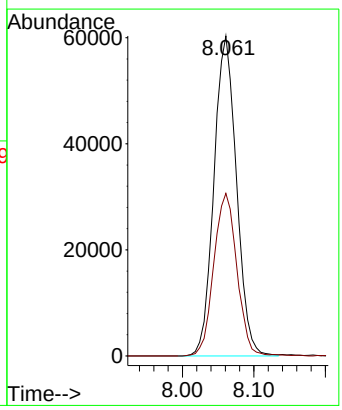


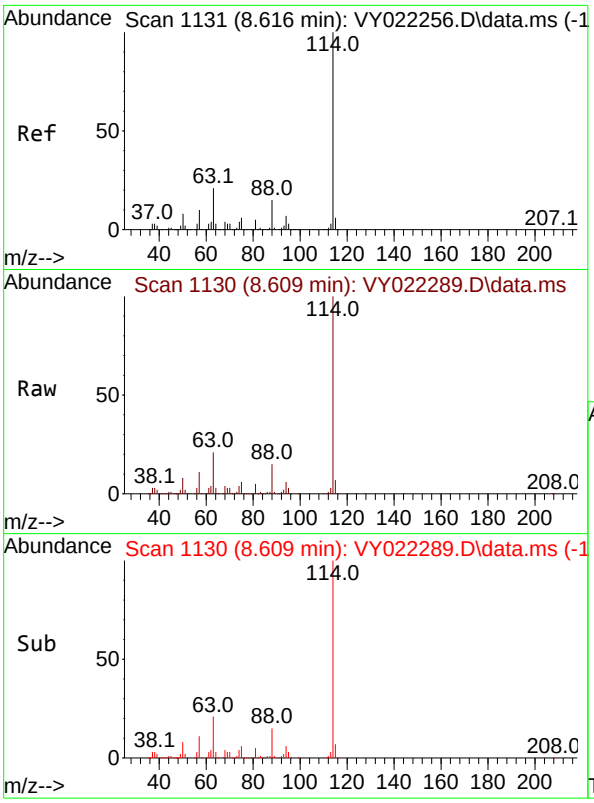


#33
1,2-Dichloroethane-d4
Concen: 45.452 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022289.D
Acq: 16 May 2025 14:28

Tgt Ion: 65 Resp: 132106

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	104.6



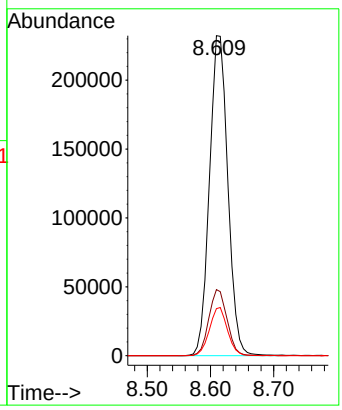


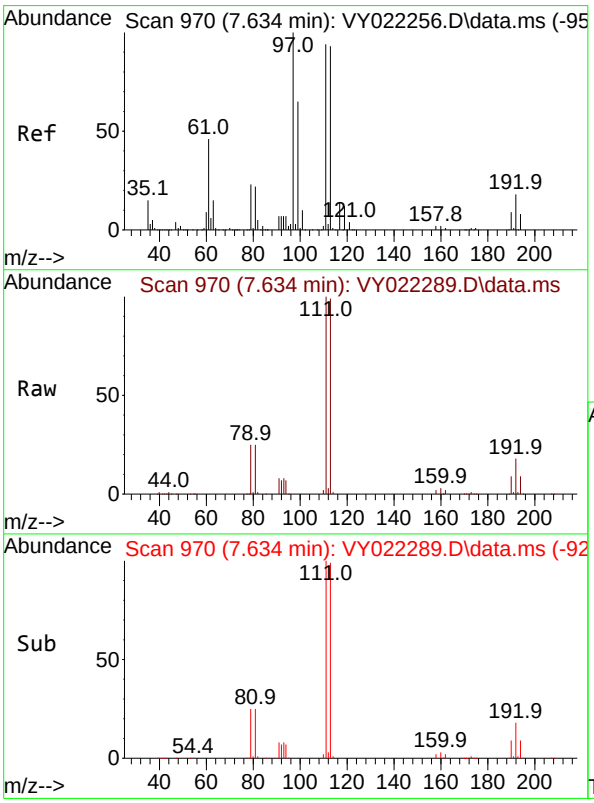
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022289.D
Acq: 16 May 2025 14:28

Instrument :
MSVOA_Y
ClientSampleId :
TP-8

Tgt Ion:114 Resp: 467527

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.0
88	14.7	0.0	29.4

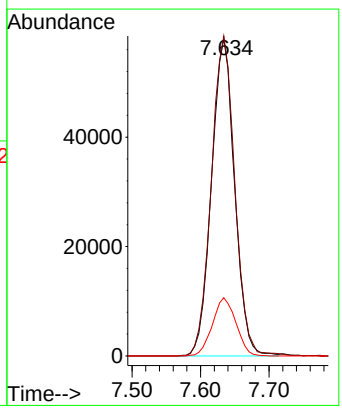


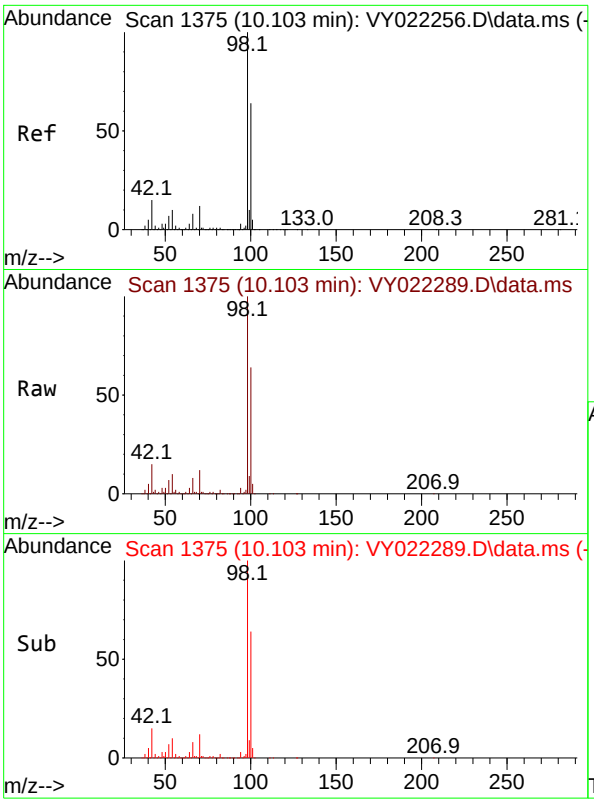


#35
Dibromofluoromethane
Concen: 48.534 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY022289.D
Acq: 16 May 2025 14:28

Tgt Ion:113 Resp: 135434

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.6	123.8
192	18.7	15.2	22.8



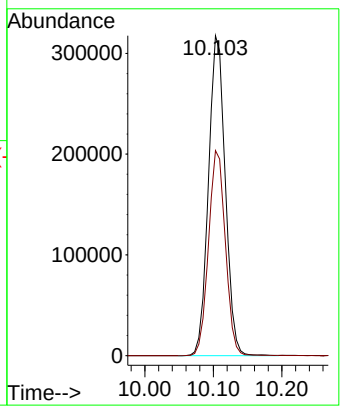


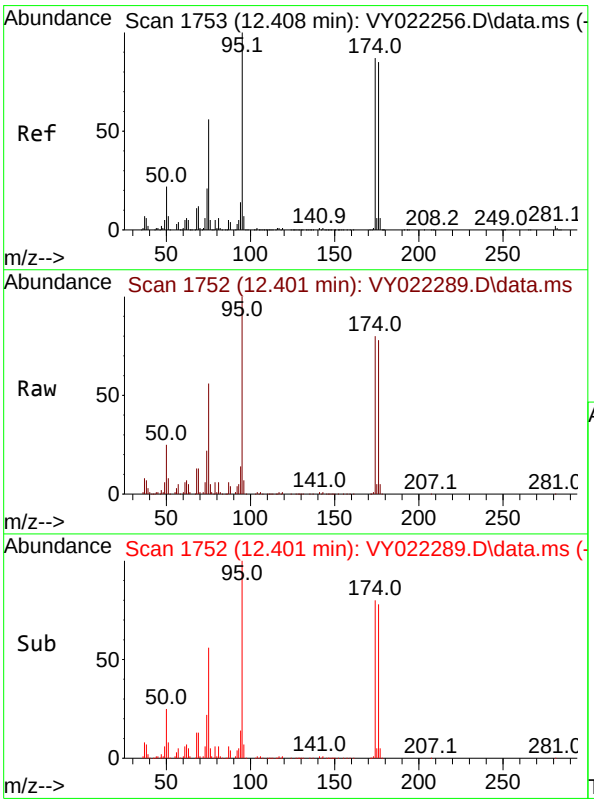
#50
Toluene-d8
Concen: 47.314 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022289.D
Acq: 16 May 2025 14:28

Instrument :
MSVOA_Y
ClientSampleId :
TP-8

Tgt Ion: 98 Resp: 540727

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.8	77.8

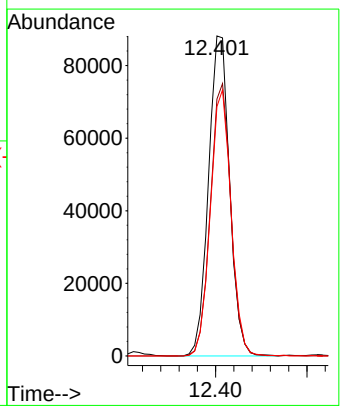


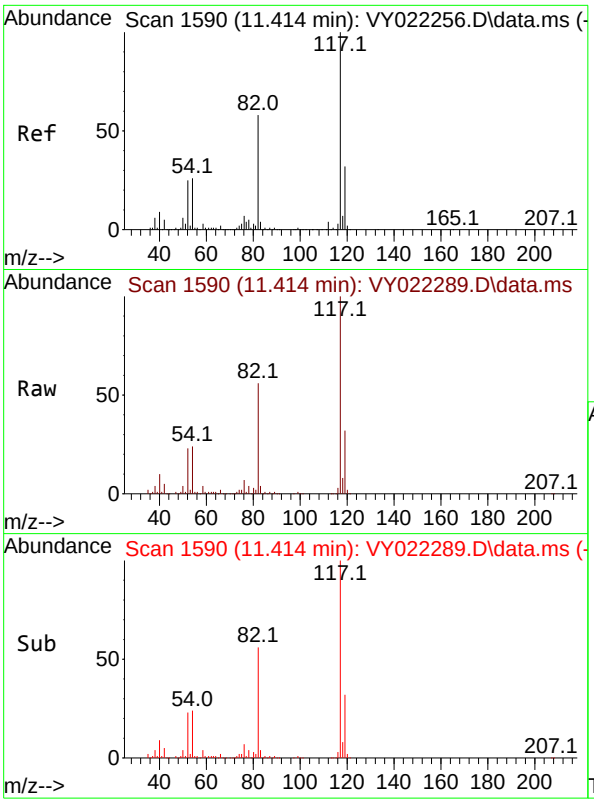


#62
4-Bromofluorobenzene
Concen: 39.078 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022289.D
Acq: 16 May 2025 14:28

Tgt Ion: 95 Resp: 141558

Ion	Ratio	Lower	Upper
95	100		
174	82.6	0.0	166.8
176	81.3	0.0	160.8



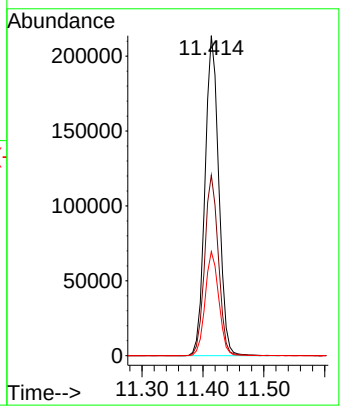


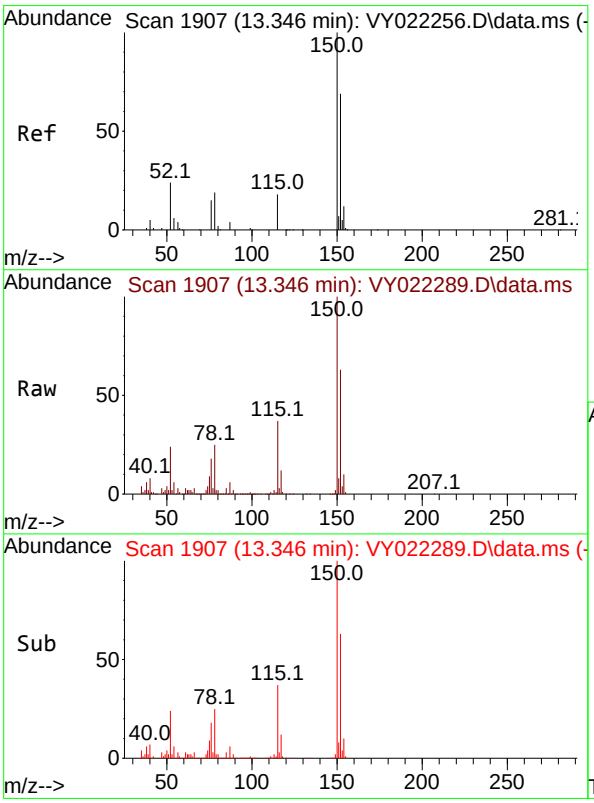
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022289.D
Acq: 16 May 2025 14:28

Instrument :
MSVOA_Y
ClientSampleId :
TP-8

Tgt Ion:117 Resp: 335264

Ion	Ratio	Lower	Upper
117	100		
82	56.4	46.6	70.0
119	32.5	25.8	38.6

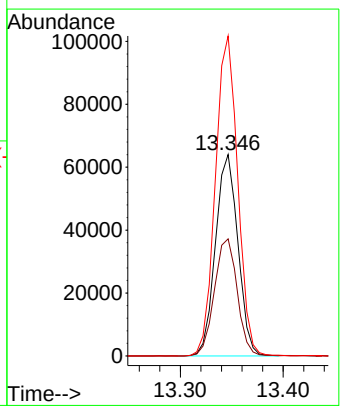




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022289.D
Acq: 16 May 2025 14:28

Tgt Ion:152 Resp: 97059

Ion	Ratio	Lower	Upper
152	100		
115	59.2	29.4	88.2
150	157.7	0.0	353.8



Sample Results: **VY022289.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022289.D
Acq On : 16 May 2025 14:28
Operator : SY/MD
Sample : Q1982-07
Misc : 7.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-8

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022289.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	119	126	137	rBV7	23355	92372	6.27%	1.318%
2	7.634	960	970	976	rBV	197308	476401	32.32%	6.798%
3	7.707	976	982	995	rVB	349039	790021	53.60%	11.274%
4	8.061	1027	1040	1050	rBV	175619	400980	27.21%	5.722%
5	8.609	1121	1130	1146	rBV	555337	1115621	75.69%	15.920%
6	9.542	1276	1283	1291	rVB2	15726	29401	1.99%	0.420%
7	9.670	1296	1304	1312	rBV2	25514	54722	3.71%	0.781%
8	10.036	1359	1364	1368	rBV	9158	15600	1.06%	0.223%
9	10.103	1368	1375	1383	rVV	862498	1473873	100.00%	21.033%
10	11.414	1582	1590	1601	rBV	701643	1111368	75.40%	15.860%
11	12.401	1746	1752	1760	rBV	481914	774646	52.56%	11.055%
12	13.346	1900	1907	1917	rVB	420103	650070	44.11%	9.277%
13	15.200	2203	2211	2218	rBV4	13217	22421	1.52%	0.320%

Sum of corrected areas: 7007496

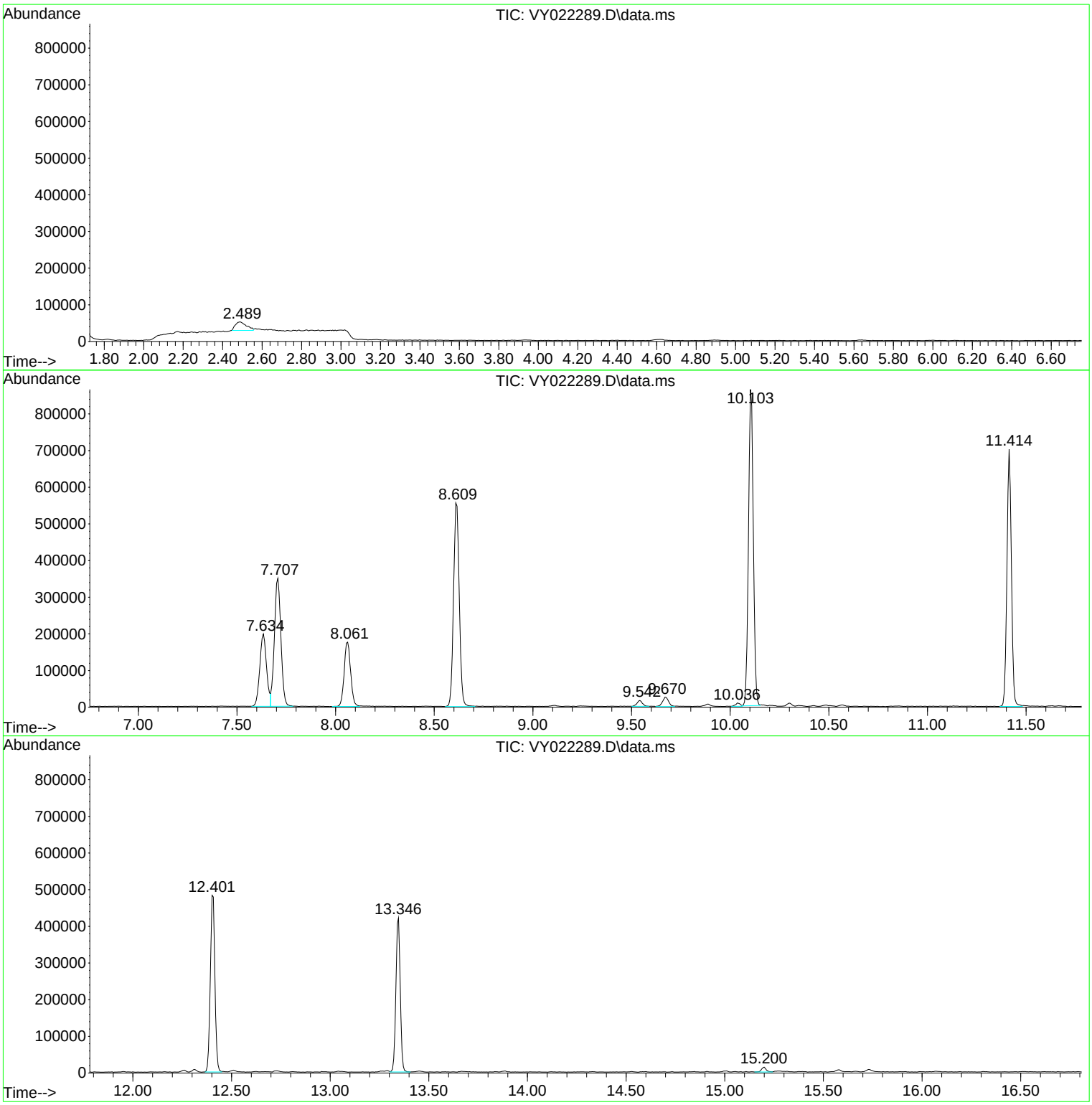
Sample Results: **VY022289.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022289.D
Acq On : 16 May 2025 14:28
Operator : SY/MD
Sample : Q1982-07
Misc : 7.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-8

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022289.D
Acq On : 16 May 2025 14:28
Operator : SY/MD
Sample : Q1982-07
Misc : 7.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-8

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

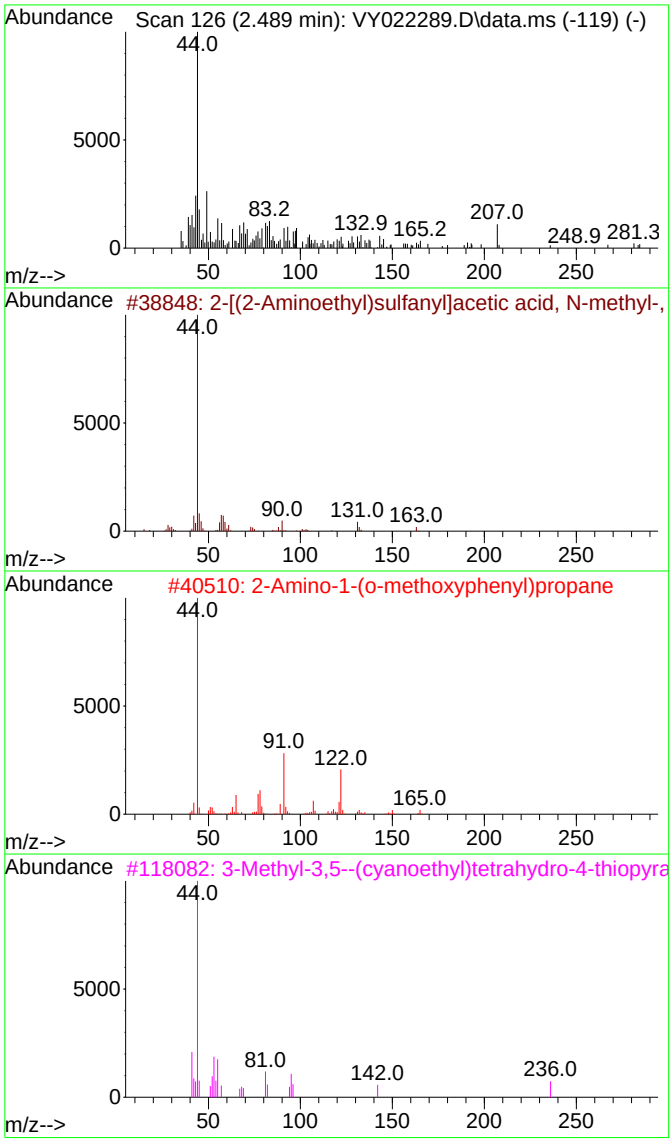
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

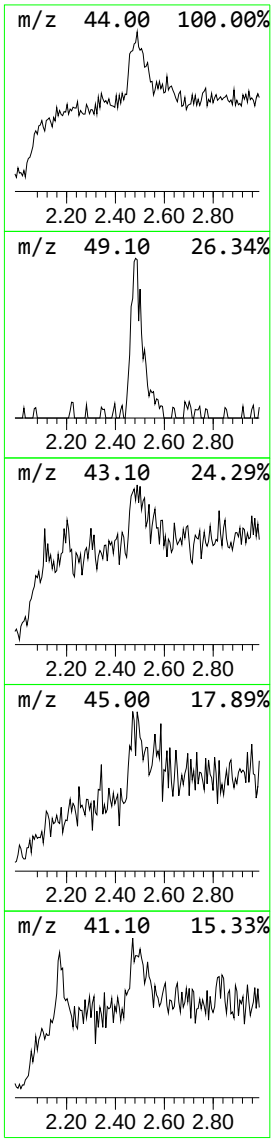
****

Peak Number 1 unknown2.489 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.489	5.85 ug/l	92372	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-[(2-Aminoethyl)sulfanyl]acetic...	163	C6H13NO2S	1249150-80-8	38
2	2-Amino-1-(o-methoxyphenyl)propane	165	C10H15NO	015402-84-3	27
3	3-Methyl-3,5--(cyanoethyl)tetrah...	236	C12H16N2OS	1000140-32-3	27
4	3-Methoxyamphetamine	165	C10H15NO	017862-85-0	27
5	Propanamide, 3-(3,4-dimethylphen...	241	C11H15NO3S	1000262-80-6	27





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022289.D
Acq On : 16 May 2025 14:28
Operator : SY/MD
Sample : Q1982-07
Misc : 7.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-8

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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
unknown2.489	2.489	5.8	ug/l	92372	1	7.707	790021	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022290.D
Acq On : 16 May 2025 14:51
Operator : SY/MD
Sample : Q1982-08
Misc : 6.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-9

Quant Time: May 17 01:34:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	263964	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	460977	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	322155	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	80191	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	136451	47.299	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 94.600%			
35) Dibromofluoromethane	7.634	113	137715	50.053	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.100%			
50) Toluene-d8	10.103	98	534411	47.425	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.860%			
62) 4-Bromofluorobenzene	12.402	95	129325	36.208	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 72.420%			

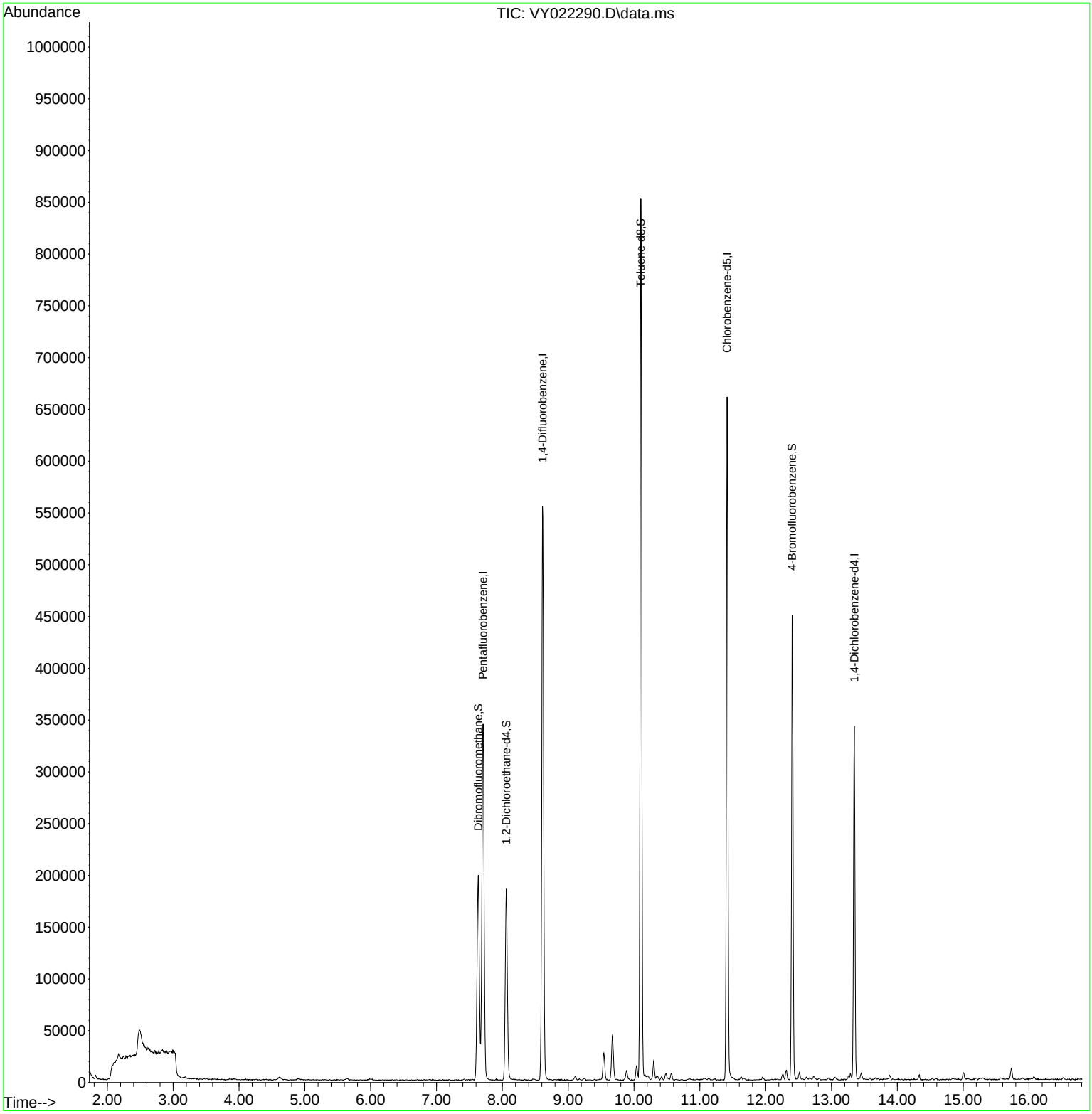
Target Compounds Qvalue

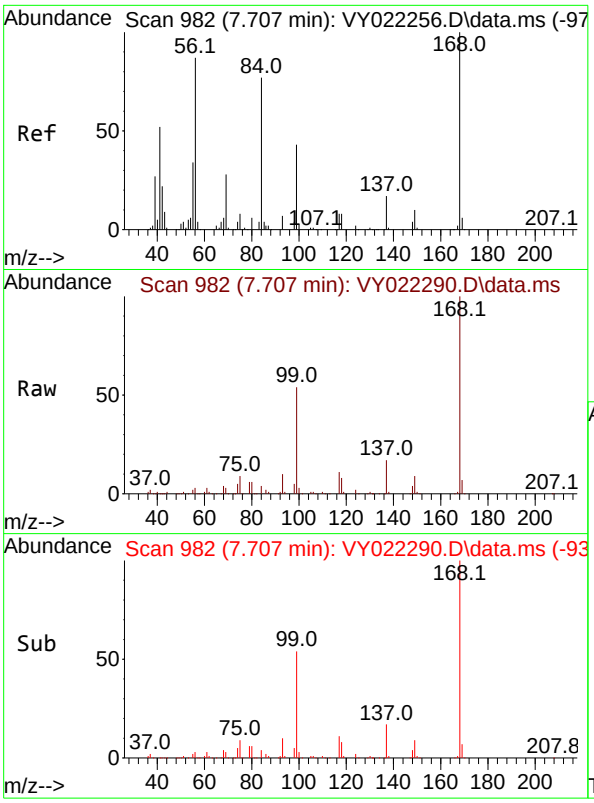
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022290.D
Acq On : 16 May 2025 14:51
Operator : SY/MD
Sample : Q1982-08
Misc : 6.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-9

Quant Time: May 17 01:34:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



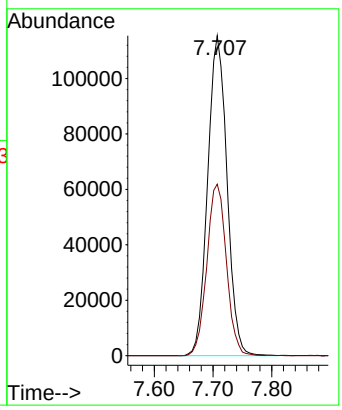


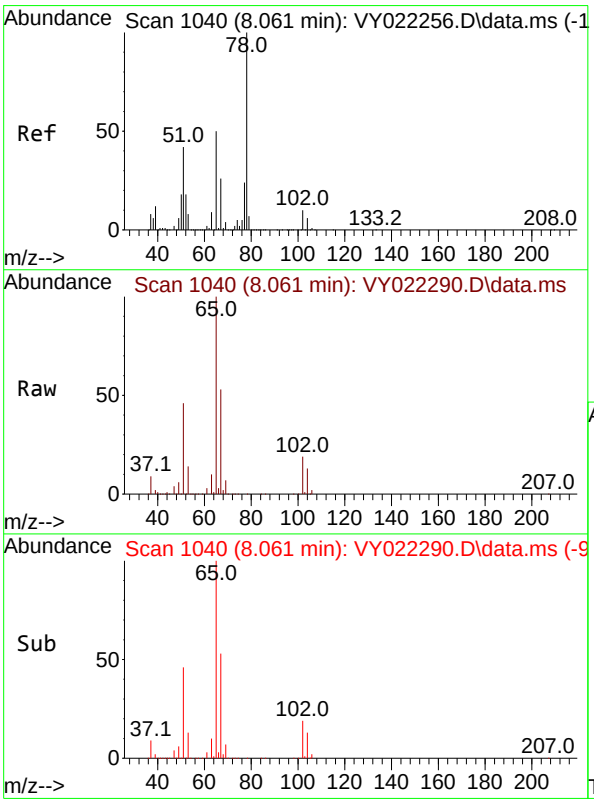
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022290.D
Acq: 16 May 2025 14:51

Instrument :
MSVOA_Y
ClientSampleId :
TP-9

Tgt Ion:168 Resp: 263964

Ion	Ratio	Lower	Upper
168	100		
99	53.6	44.2	66.4

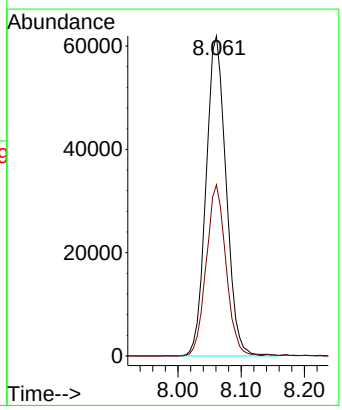


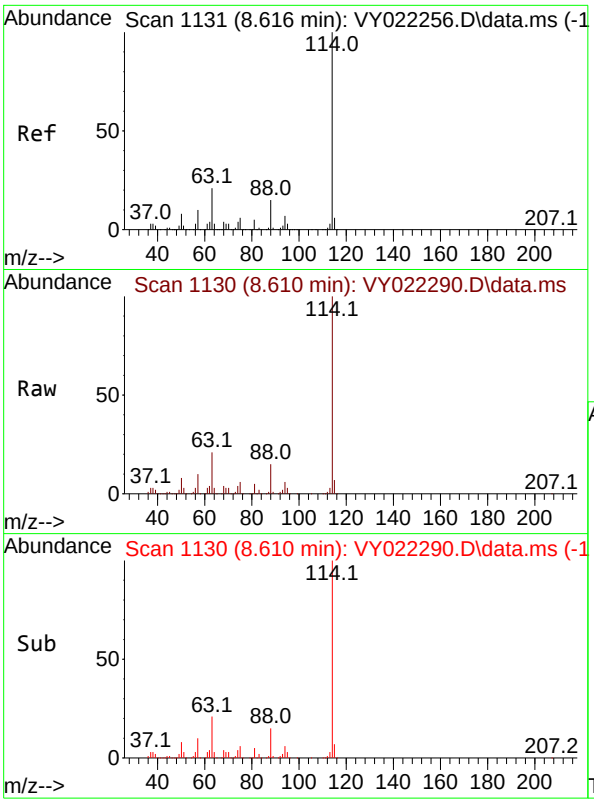


#33
1,2-Dichloroethane-d4
Concen: 47.299 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022290.D
Acq: 16 May 2025 14:51

Tgt Ion: 65 Resp: 136451

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	104.6



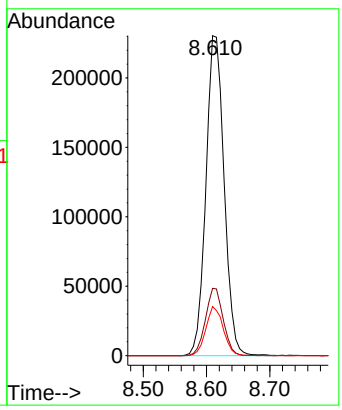


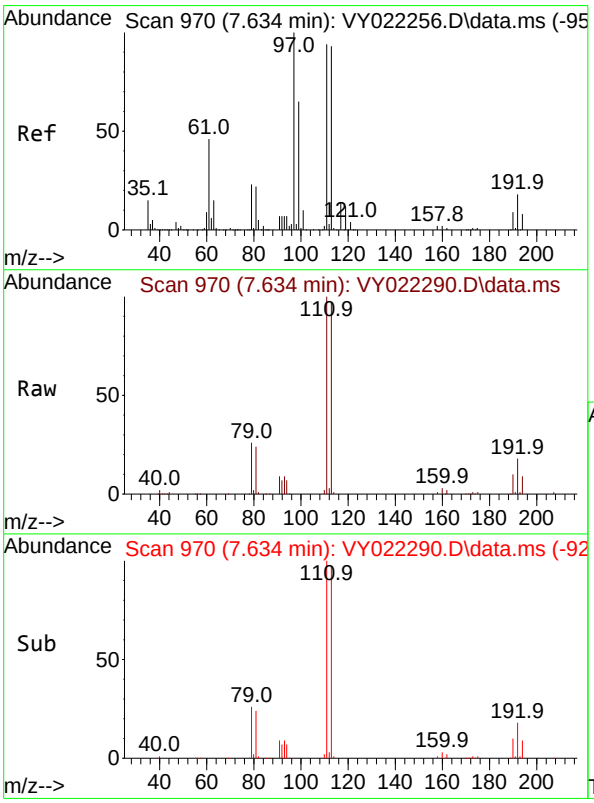
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022290.D
Acq: 16 May 2025 14:51

Instrument :
MSVOA_Y
ClientSampleId :
TP-9

Tgt Ion:114 Resp: 460977

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	41.0
88	15.3	0.0	29.4

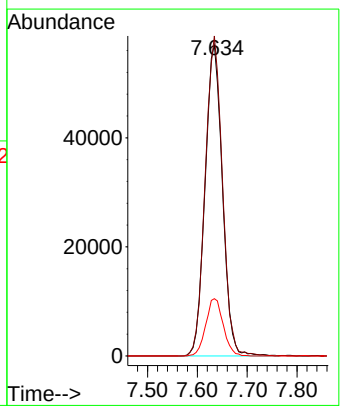


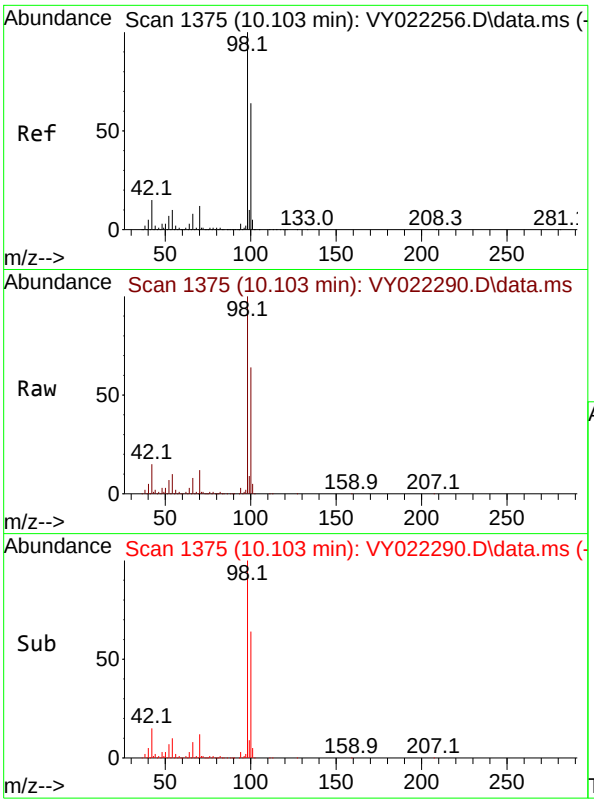


#35
Dibromofluoromethane
Concen: 50.053 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY022290.D
Acq: 16 May 2025 14:51

Tgt Ion:113 Resp: 137715

Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.6	123.8
192	18.6	15.2	22.8



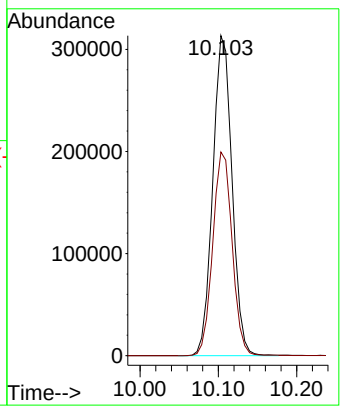


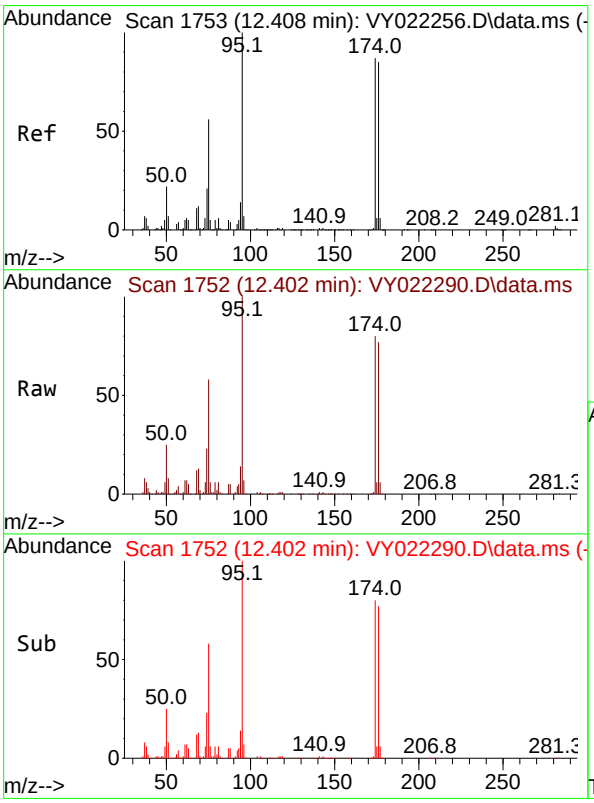
#50
Toluene-d8
Concen: 47.425 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022290.D
Acq: 16 May 2025 14:51

Instrument :
MSVOA_Y
ClientSampleId :
TP-9

Tgt Ion: 98 Resp: 534411

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.8	77.8

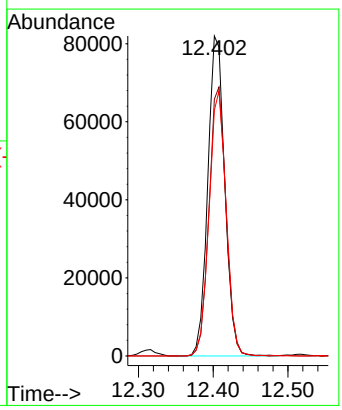


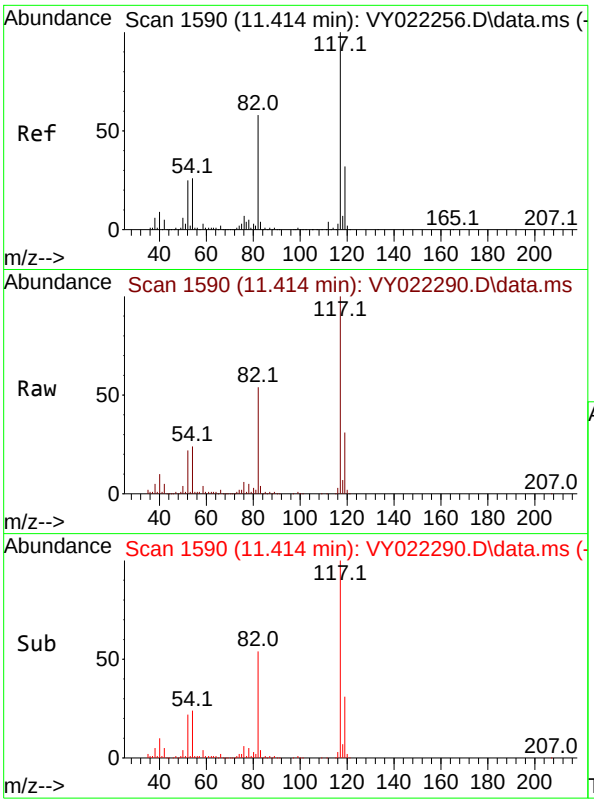


#62
4-Bromofluorobenzene
Concen: 36.208 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022290.D
Acq: 16 May 2025 14:51

Tgt Ion: 95 Resp: 129325

Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	166.8
176	83.3	0.0	160.8



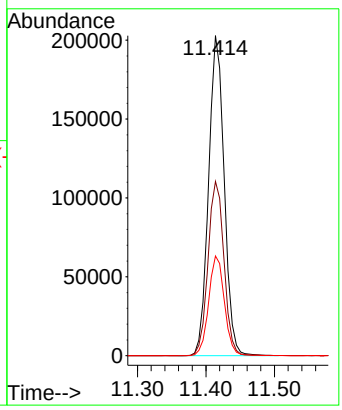


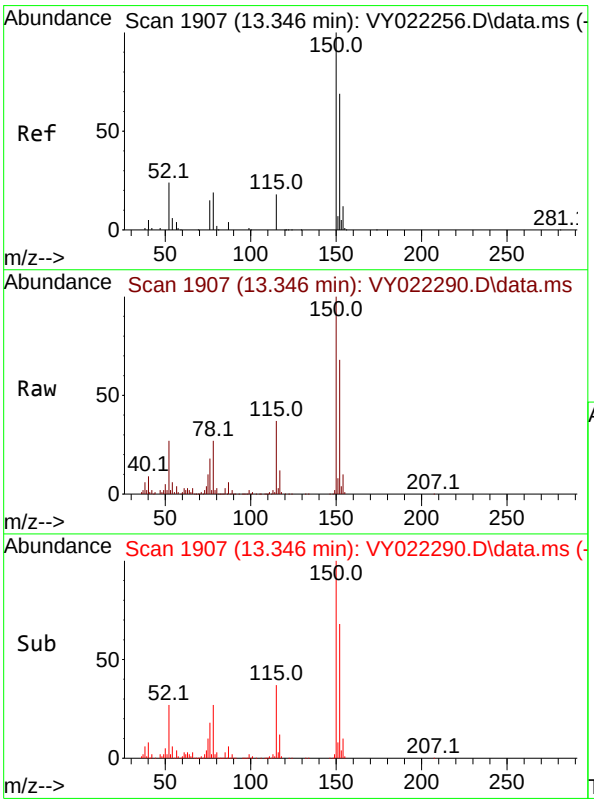
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022290.D
Acq: 16 May 2025 14:51

Instrument :
MSVOA_Y
ClientSampleId :
TP-9

Tgt Ion:117 Resp: 322155

Ion	Ratio	Lower	Upper
117	100		
82	54.4	46.6	70.0
119	31.2	25.8	38.6

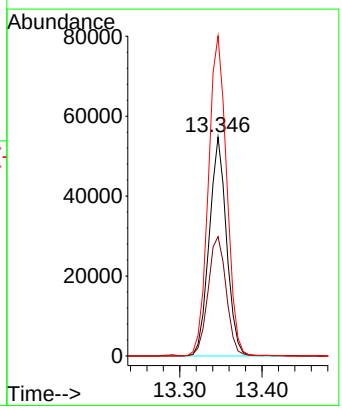




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022290.D
Acq: 16 May 2025 14:51

Tgt Ion:152 Resp: 80191

Ion	Ratio	Lower	Upper
152	100		
115	56.8	29.4	88.2
150	154.4	0.0	353.8



Sample Results: **VY022290.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022290.D
Acq On : 16 May 2025 14:51
Operator : SY/MD
Sample : Q1982-08
Misc : 6.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-9

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022290.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% of % max.	% of total
1	2.483	119	125	133	rBV	21607	77558	5.35%	1.129%
2	7.634	960	970	976	rBV	197734	477584	32.96%	6.954%
3	7.707	976	982	1000	rVB	343878	785264	54.20%	11.434%
4	8.061	1030	1040	1052	rBV	184788	410361	28.32%	5.975%
5	8.610	1119	1130	1142	rBV	553722	1101114	76.00%	16.033%
6	9.542	1274	1283	1290	rBV	25777	50830	3.51%	0.740%
7	9.670	1296	1304	1312	rBV	42132	88787	6.13%	1.293%
8	9.884	1331	1339	1344	rBV3	9586	20561	1.42%	0.299%
9	10.042	1359	1365	1369	rBV	13707	25775	1.78%	0.375%
10	10.103	1369	1375	1384	rVV	848353	1448882	100.00%	21.097%
11	10.298	1399	1407	1412	rBV2	17520	29828	2.06%	0.434%
12	11.414	1582	1590	1605	rBV	659738	1064221	73.45%	15.496%
13	12.316	1733	1738	1746	rVB4	9309	16110	1.11%	0.235%
14	12.402	1746	1752	1762	rBV	448977	725637	50.08%	10.566%
15	13.346	1900	1907	1915	rVB	340472	524738	36.22%	7.641%
16	15.730	2292	2298	2304	rBV6	10750	20462	1.41%	0.298%

Sum of corrected areas: 6867712

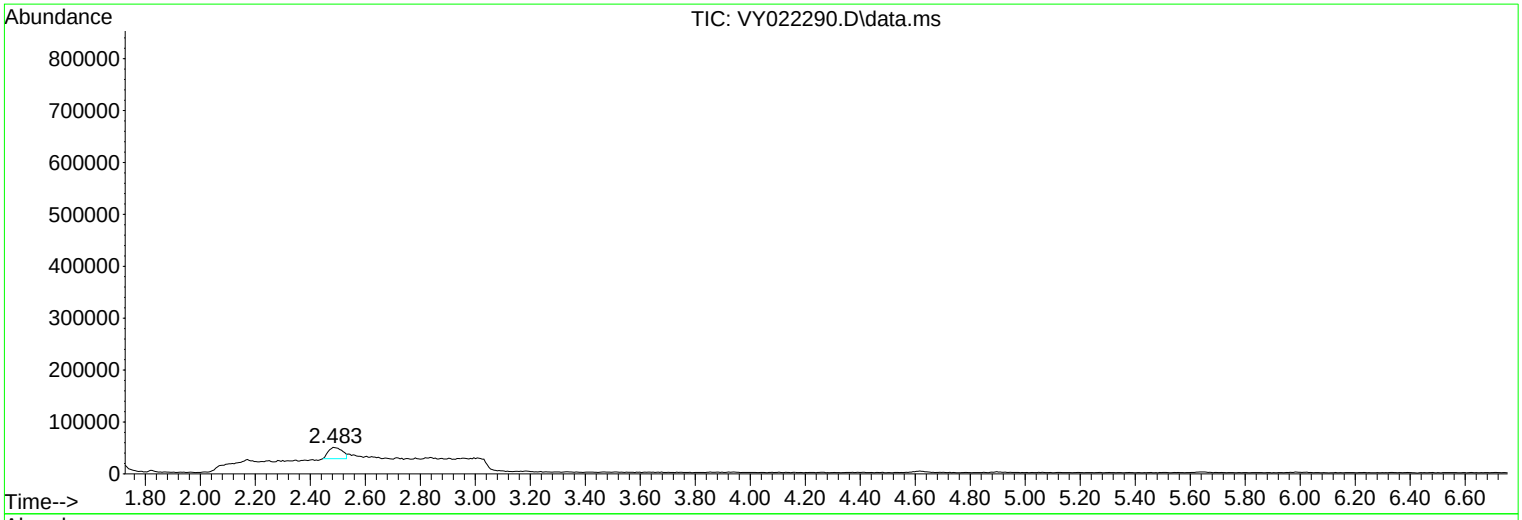
Sample Results: **VY022290.D**

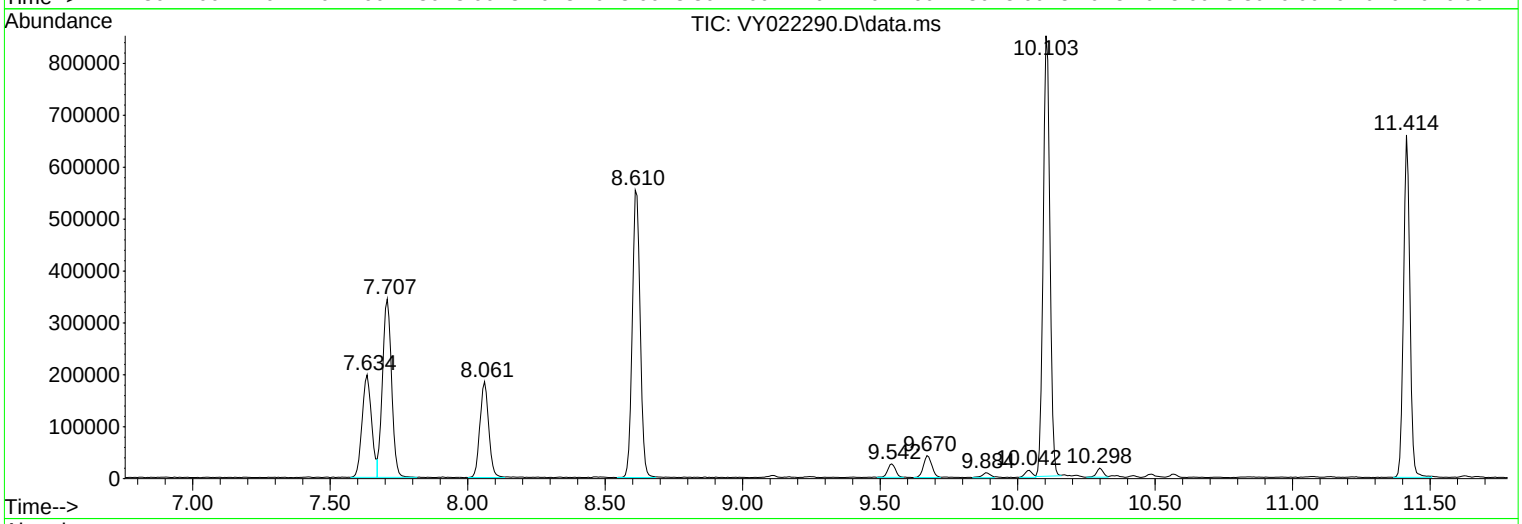
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022290.D
Acq On : 16 May 2025 14:51
Operator : SY/MD
Sample : Q1982-08
Misc : 6.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

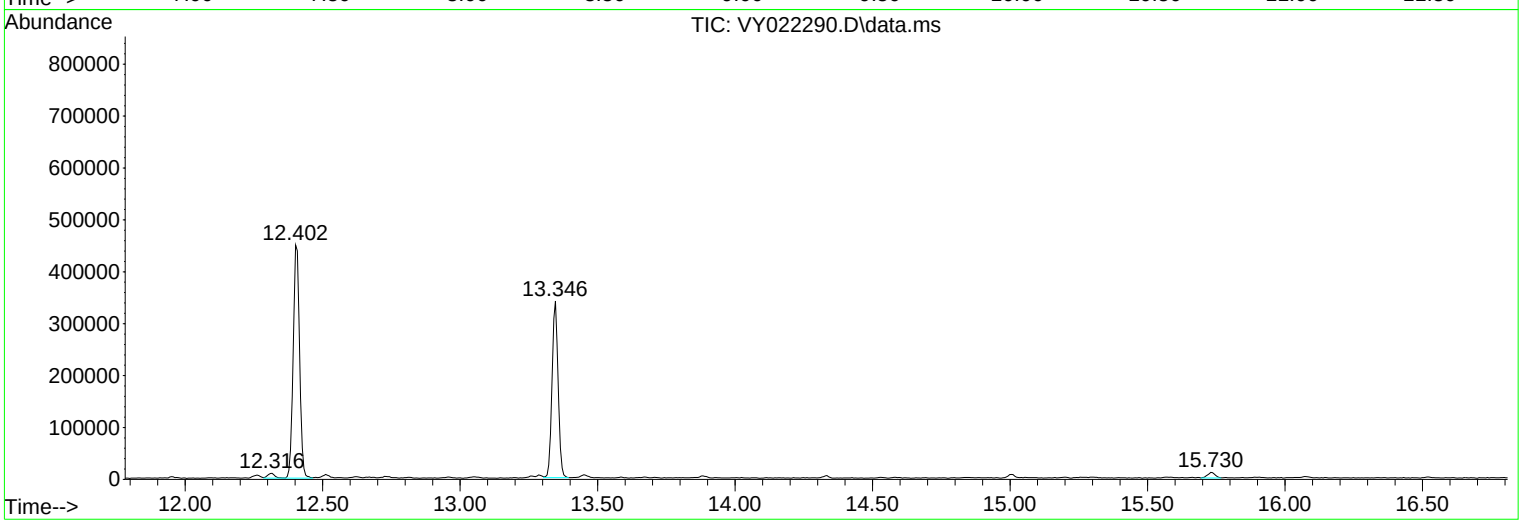
Instrument :
MSVOA_Y
ClientSampleId :
TP-9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022290.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022290.D
Acq On : 16 May 2025 14:51
Operator : SY/MD
Sample : Q1982-08
Misc : 6.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY051625\
Data File : VY022290.D
Acq On : 16 May 2025 14:51
Operator : SY/MD
Sample : Q1982-08
Misc : 6.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY051525\
Data File : VY022261.D
Acq On : 15 May 2025 13:44
Operator : SY/MD
Sample : VY0515SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBL01

Quant Time: May 16 01:53:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	357935	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	617938	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	477752	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	173912	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	167429	42.800	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 85.600%			
35) Dibromofluoromethane	7.634	113	178256	48.331	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.660%			
50) Toluene-d8	10.103	98	735166	48.669	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.340%			
62) 4-Bromofluorobenzene	12.408	95	190691	39.828	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 79.660%			

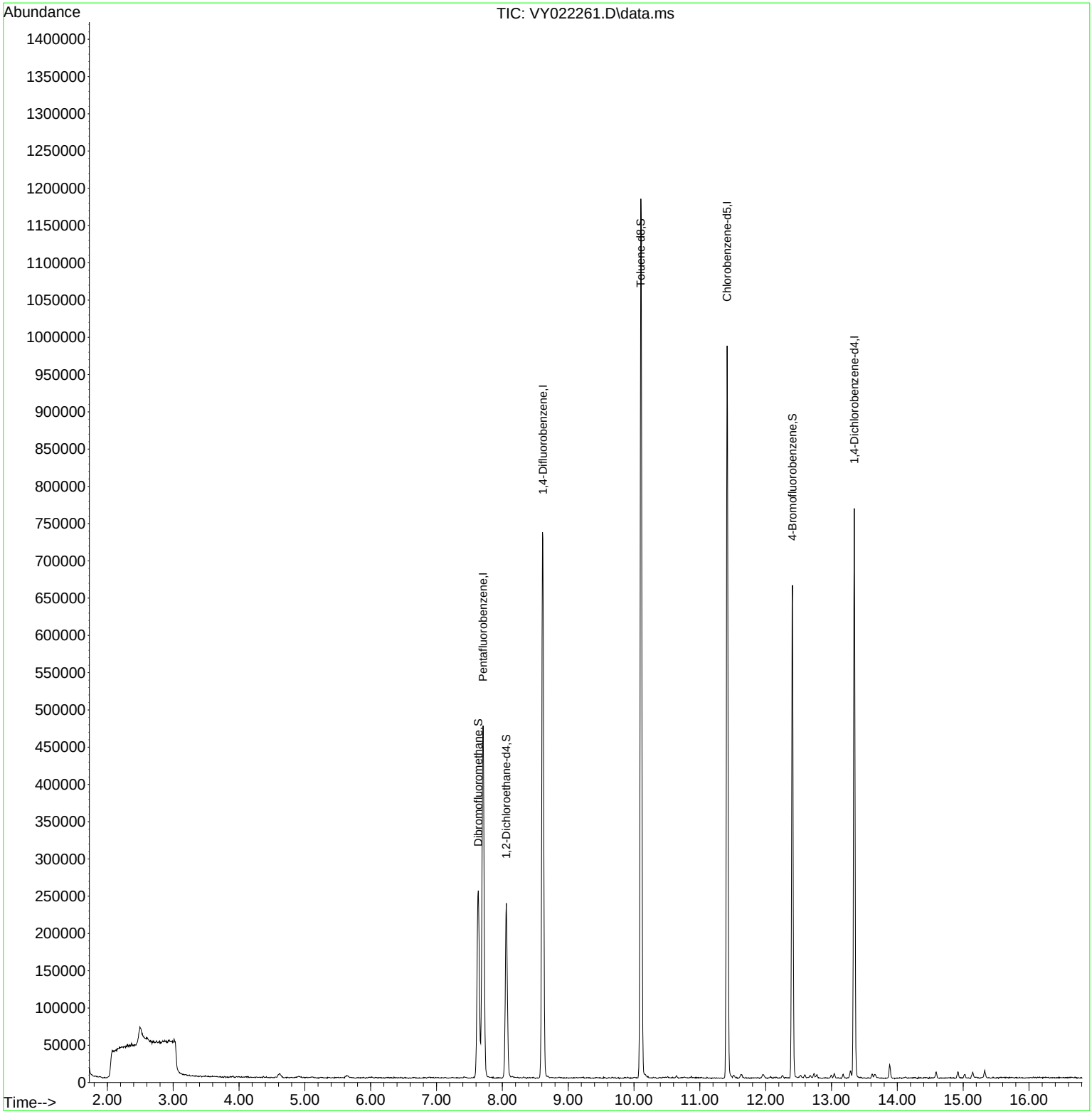
Target Compounds Qvalue

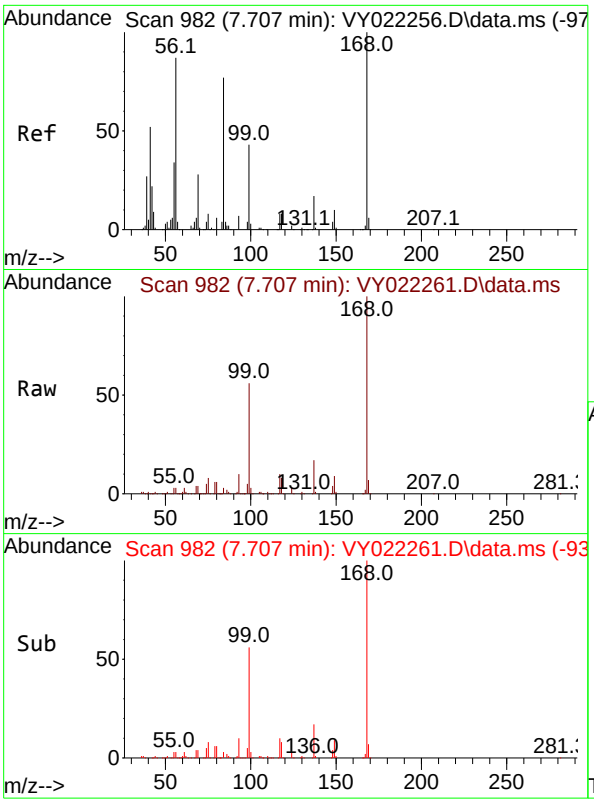
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022261.D
Acq On : 15 May 2025 13:44
Operator : SY/MD
Sample : VY0515SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBL01

Quant Time: May 16 01:53:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



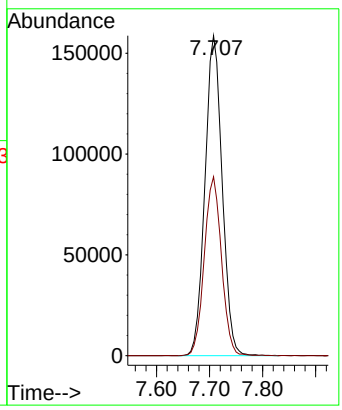


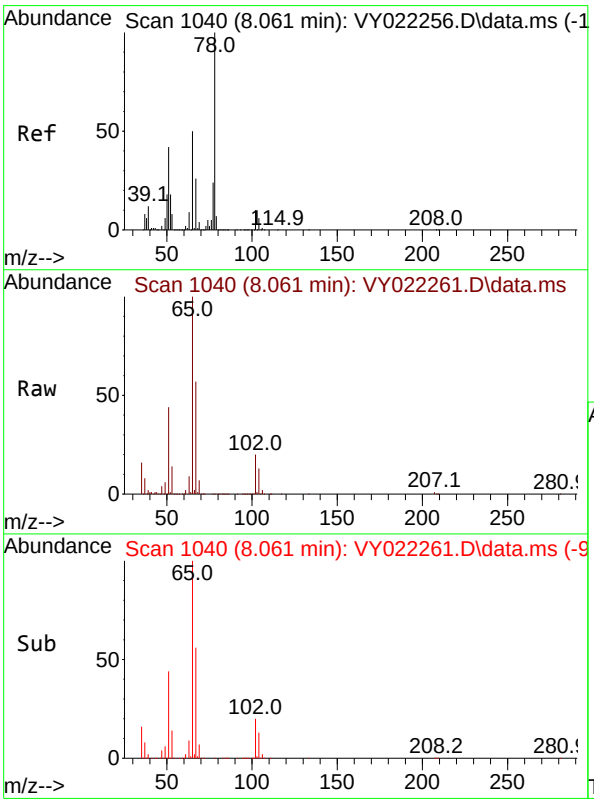
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022261.D
Acq: 15 May 2025 13:44

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBL01

Tgt Ion:168 Resp: 357935

Ion	Ratio	Lower	Upper
168	100		
99	55.9	44.2	66.4

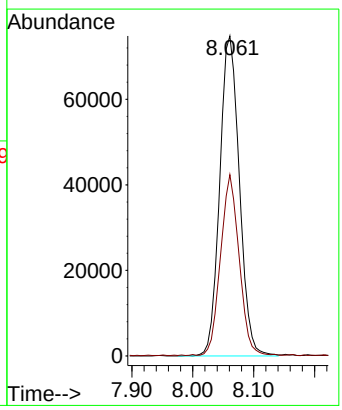


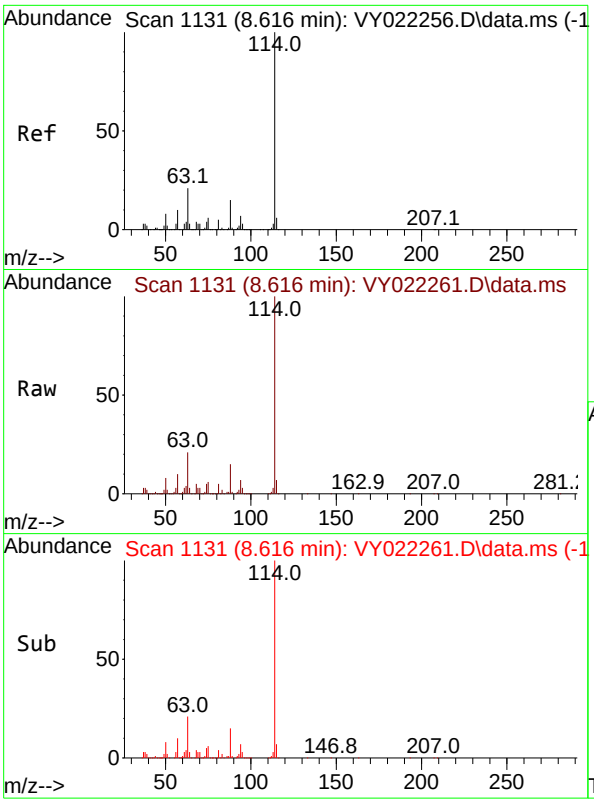


#33
1,2-Dichloroethane-d4
Concen: 42.800 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022261.D
Acq: 15 May 2025 13:44

Tgt Ion: 65 Resp: 167429

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	104.6



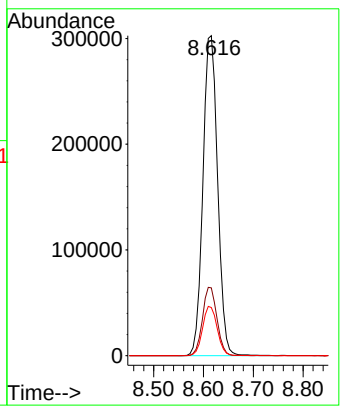


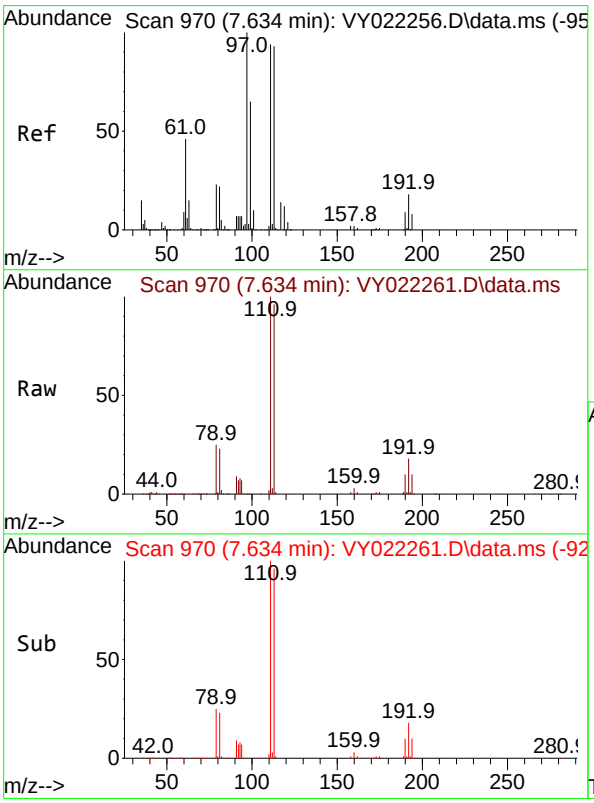
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022261.D
Acq: 15 May 2025 13:44

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBL01

Tgt Ion:114 Resp: 617938

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	41.0
88	15.1	0.0	29.4

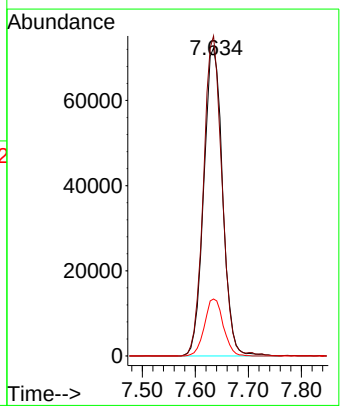


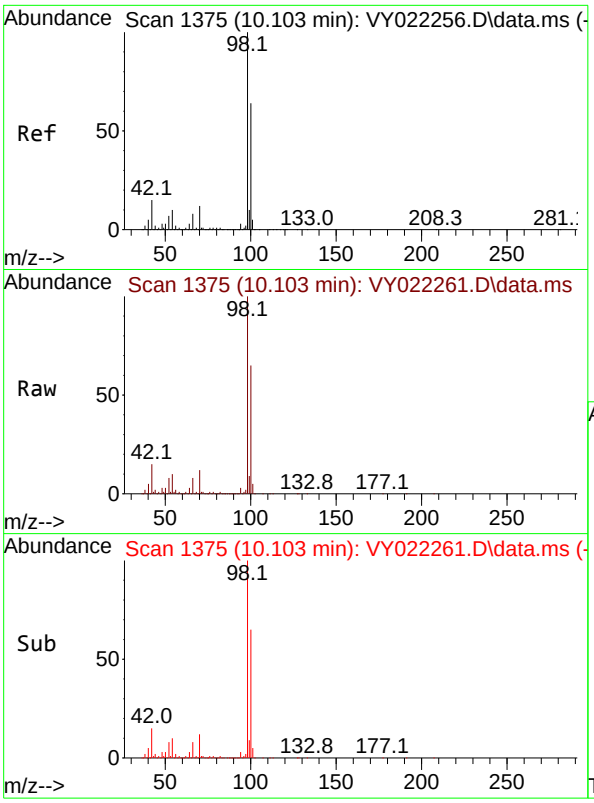


#35
Dibromofluoromethane
Concen: 48.331 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY022261.D
Acq: 15 May 2025 13:44

Tgt Ion:113 Resp: 178256

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.6	123.8
192	18.5	15.2	22.8



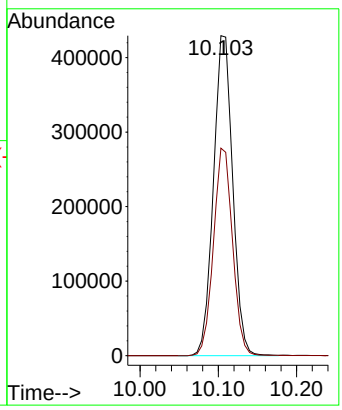


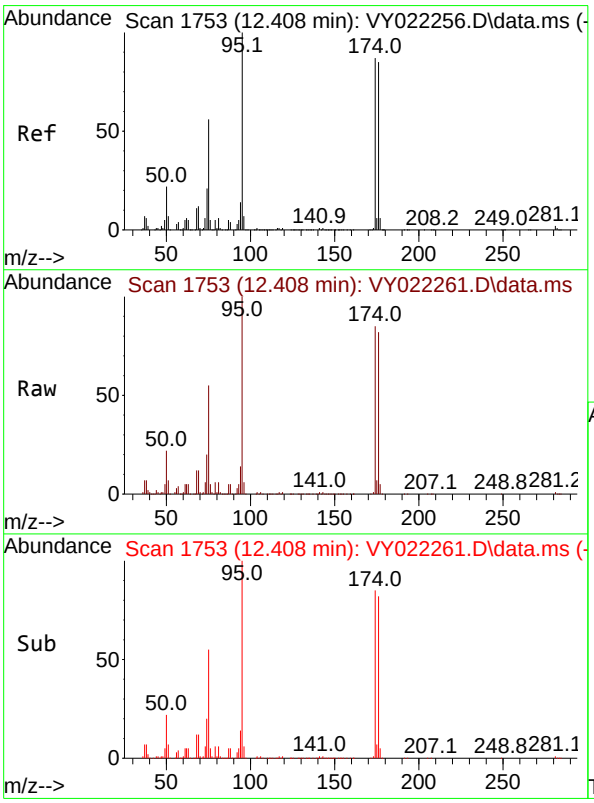
#50
Toluene-d8
Concen: 48.669 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022261.D
Acq: 15 May 2025 13:44

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBL01

Tgt Ion: 98 Resp: 735166

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.8	77.8

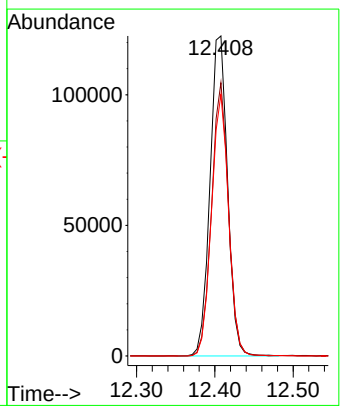


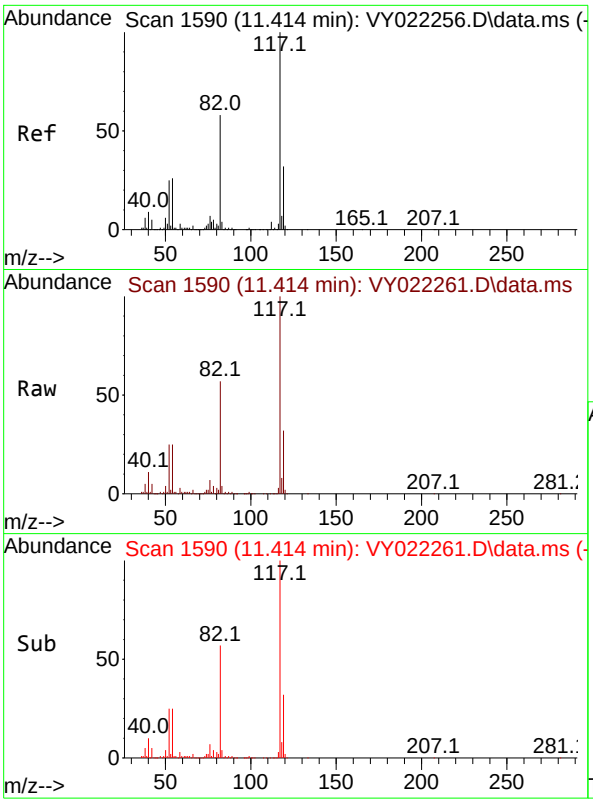


#62
4-Bromofluorobenzene
Concen: 39.828 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022261.D
Acq: 15 May 2025 13:44

Tgt Ion: 95 Resp: 190691

Ion	Ratio	Lower	Upper
95	100		
174	82.3	0.0	166.8
176	79.5	0.0	160.8



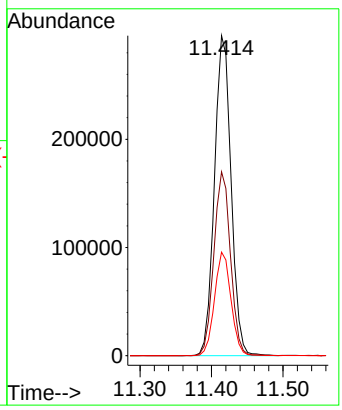


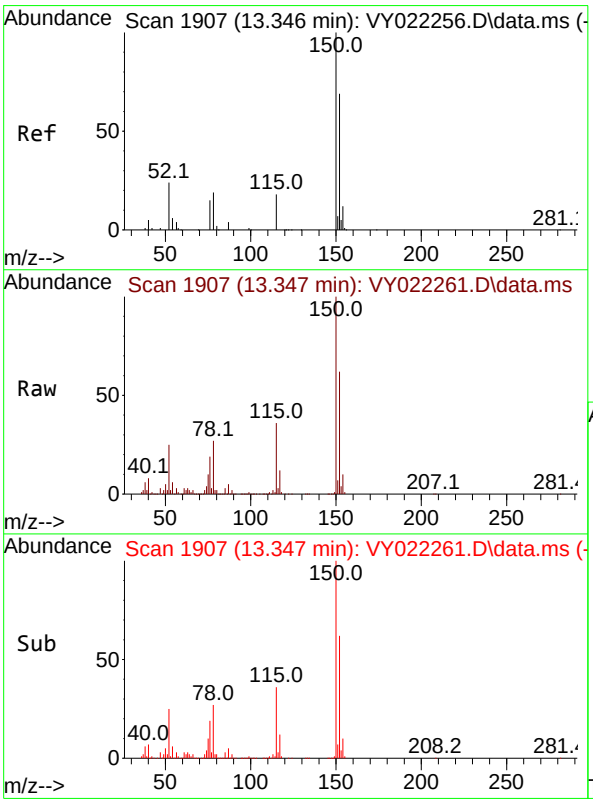
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022261.D
Acq: 15 May 2025 13:44

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBL01

Tgt Ion:117 Resp: 477752

Ion	Ratio	Lower	Upper
117	100		
82	57.4	46.6	70.0
119	32.3	25.8	38.6

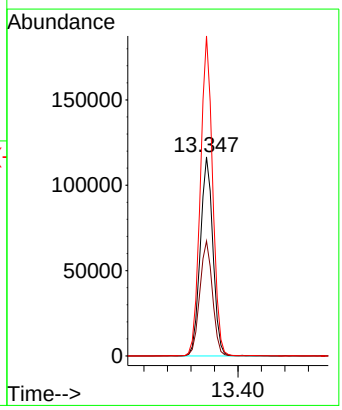




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022261.D
Acq: 15 May 2025 13:44

Tgt Ion:152 Resp: 173912

Ion	Ratio	Lower	Upper
152	100		
115	57.5	29.4	88.2
150	156.2	0.0	353.8



Sample Results: **VY022261.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022261.D
Acq On : 15 May 2025 13:44
Operator : SY/MD
Sample : VY0515SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBL01

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022261.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.074	45	58	60	rBV5	36881	90199	4.47%	0.942%
2	7.634	960	970	976	rBV	251115	618832	30.69%	6.464%
3	7.707	976	982	993	rVB	471583	1059909	52.56%	11.071%
4	8.061	1029	1040	1051	rBV	235031	508651	25.22%	5.313%
5	8.610	1119	1130	1142	rBV	732449	1479872	73.39%	15.457%
6	10.103	1368	1375	1391	rBV	1179528	2016533	100.00%	21.063%
7	11.414	1582	1590	1603	rBV	982804	1589159	78.81%	16.599%
8	12.408	1746	1753	1766	rBV	661349	1040116	51.58%	10.864%
9	13.347	1901	1907	1918	rVB	763725	1140039	56.53%	11.908%
10	13.883	1987	1995	2002	rBV	18209	30586	1.52%	0.319%

Sum of corrected areas: 9573896

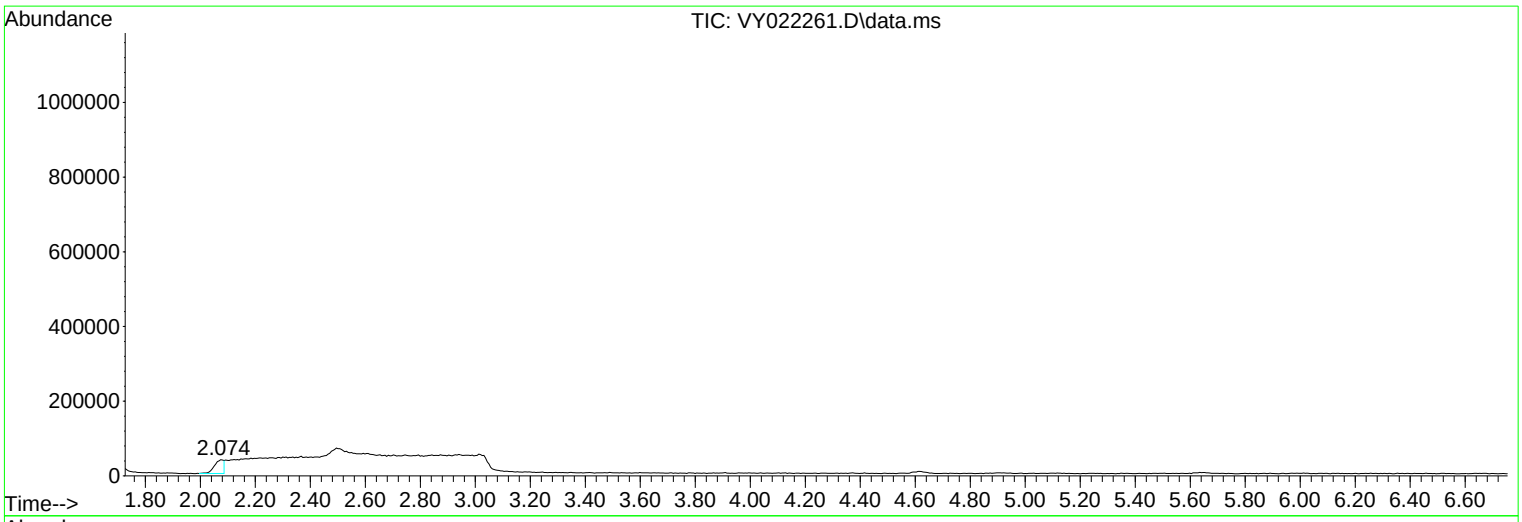
Sample Results: **VY022261.D**

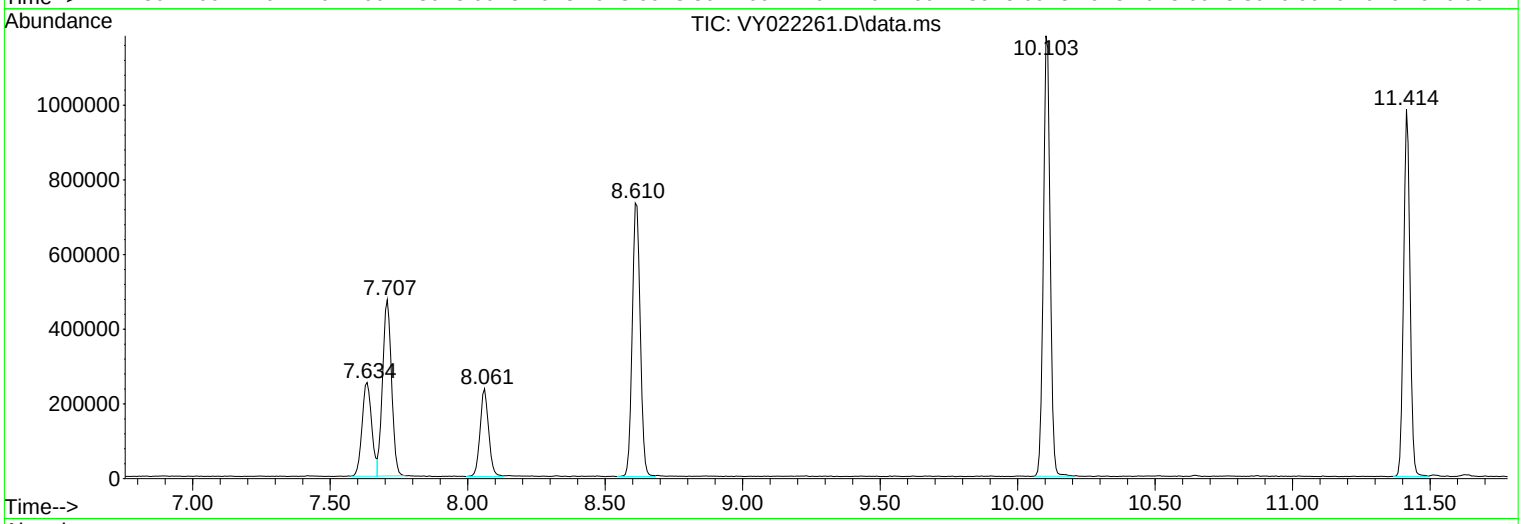
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022261.D
Acq On : 15 May 2025 13:44
Operator : SY/MD
Sample : VY0515SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

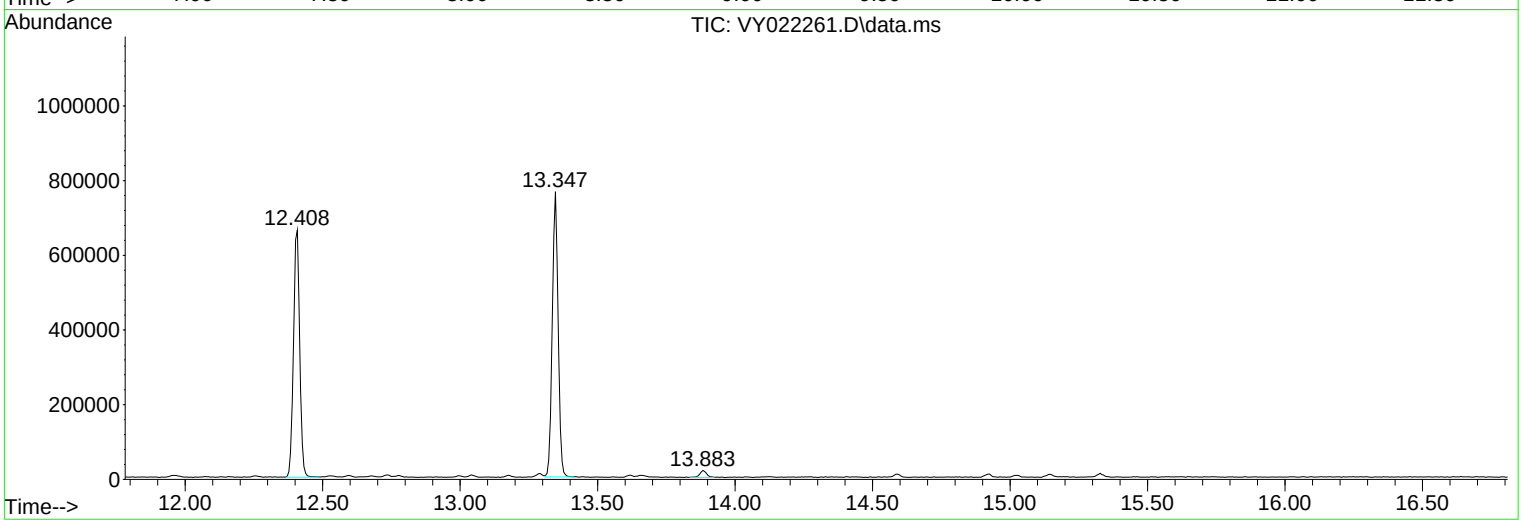
Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022261.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022261.D
Acq On : 15 May 2025 13:44
Operator : SY/MD
Sample : VY0515SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY051525\
Data File : VY022261.D
Acq On : 15 May 2025 13:44
Operator : SY/MD
Sample : VY0515SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY051625\
Data File : VY022278.D
Acq On : 16 May 2025 09:37
Operator : SY/MD
Sample : VY0516SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Quant Time: May 17 01:27:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	314347	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	555500	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	426459	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	151389	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150831	43.903	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 87.800%			
35) Dibromofluoromethane	7.634	113	158963	47.945	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.880%			
50) Toluene-d8	10.109	98	662270	48.771	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.540%			
62) 4-Bromofluorobenzene	12.408	95	208685	48.485	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.980%			

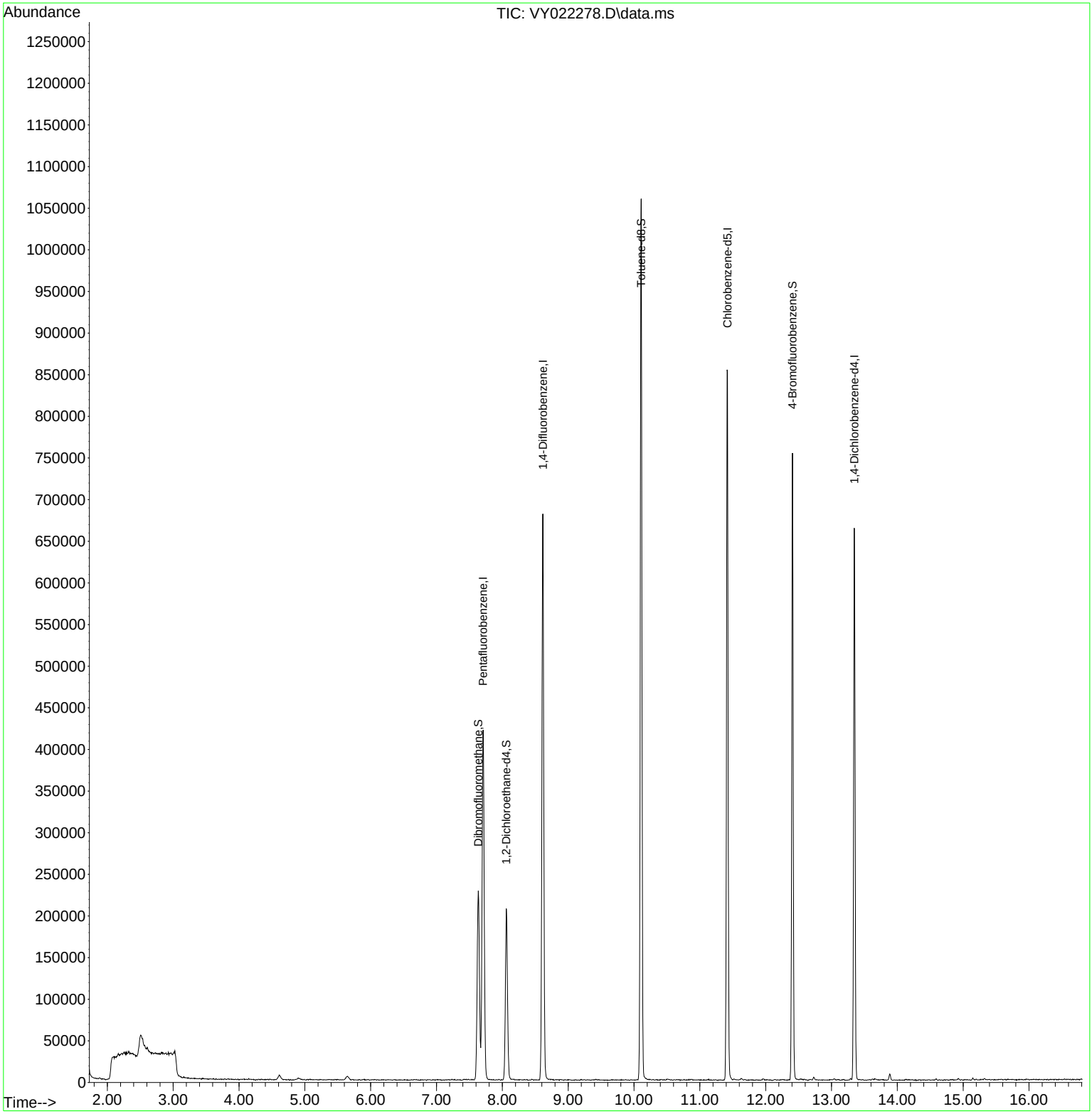
Target Compounds Qvalue

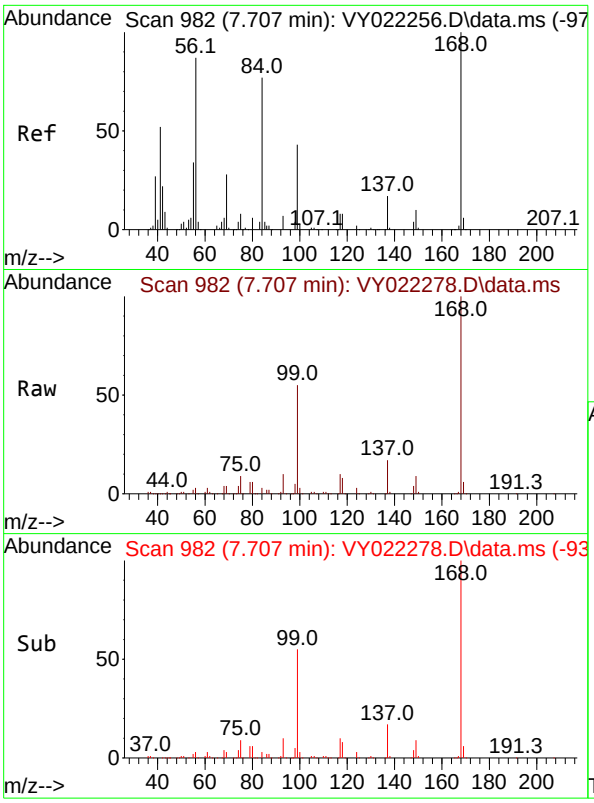
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022278.D
Acq On : 16 May 2025 09:37
Operator : SY/MD
Sample : VY0516SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Quant Time: May 17 01:27:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



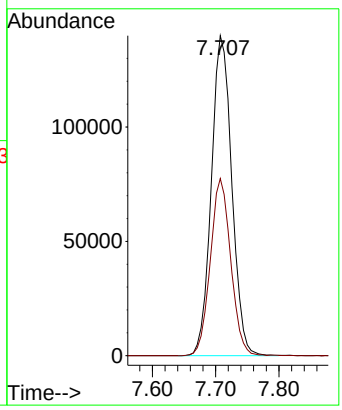


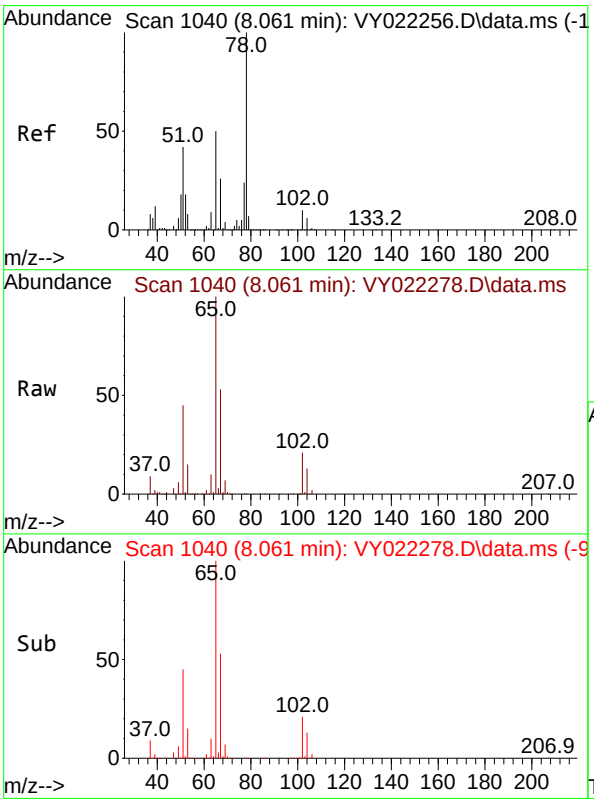
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022278.D
Acq: 16 May 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Tgt Ion:168 Resp: 314347

Ion	Ratio	Lower	Upper
168	100		
99	55.4	44.2	66.4

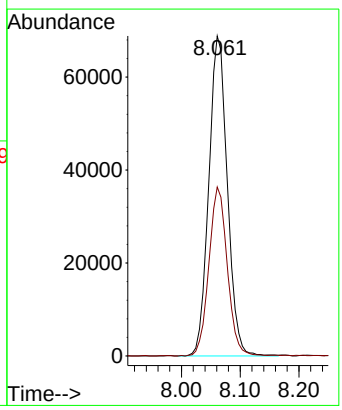


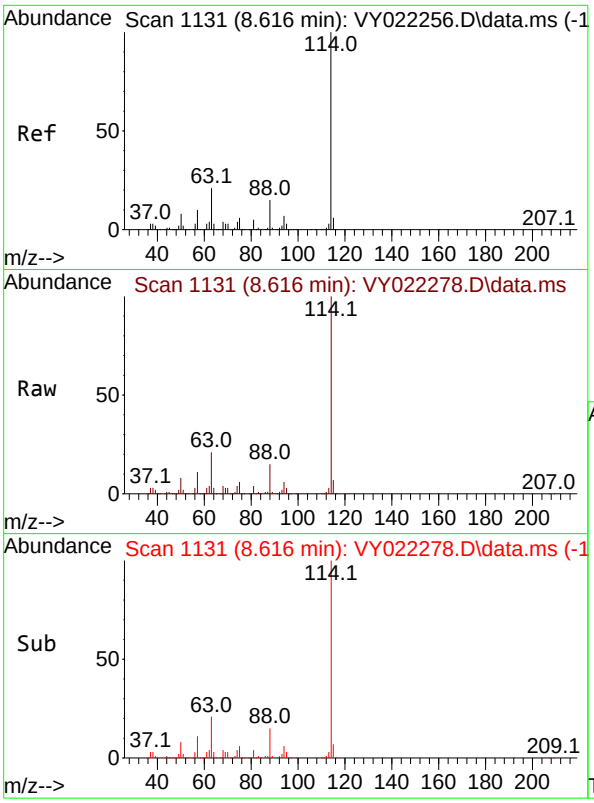


#33
1,2-Dichloroethane-d4
Concen: 43.903 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022278.D
Acq: 16 May 2025 09:37

Tgt Ion: 65 Resp: 150831

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	104.6



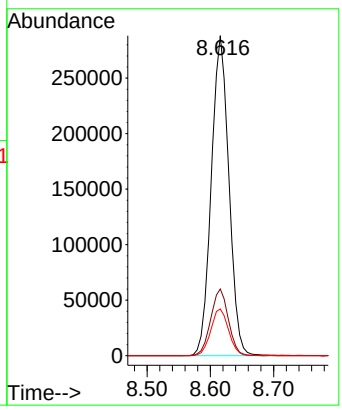


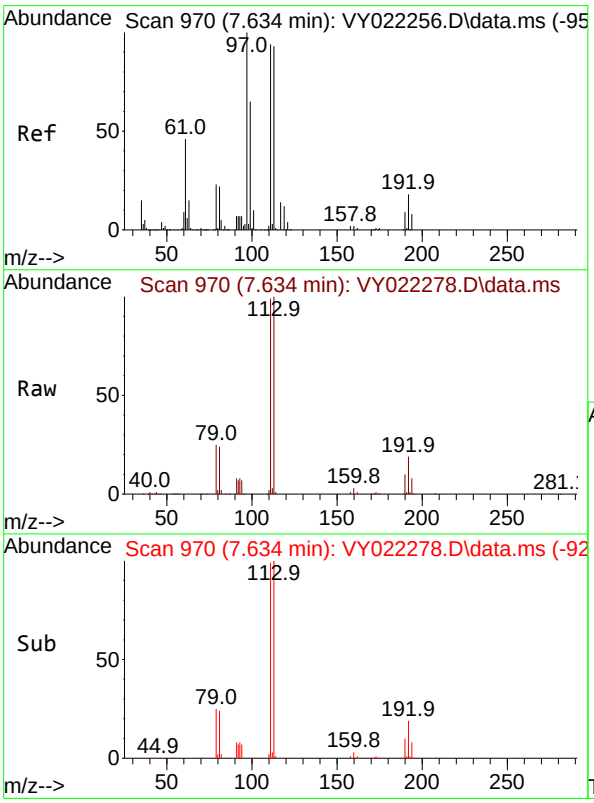
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022278.D
Acq: 16 May 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Tgt Ion:114 Resp: 555500

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	41.0
88	14.6	0.0	29.4

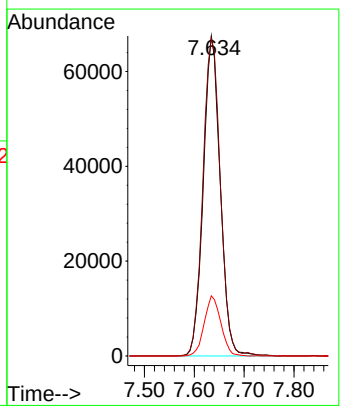


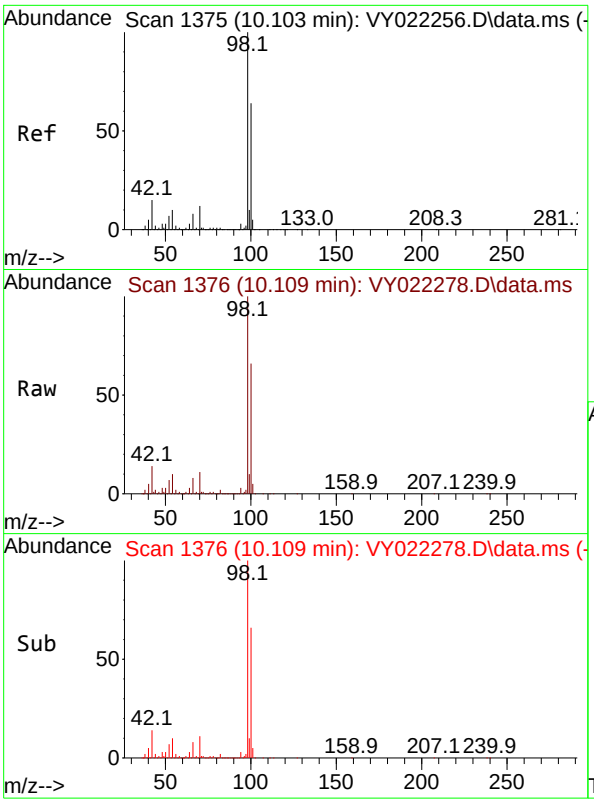


#35
Dibromofluoromethane
Concen: 47.945 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY022278.D
Acq: 16 May 2025 09:37

Tgt Ion:113 Resp: 158963

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.6	123.8
192	18.4	15.2	22.8



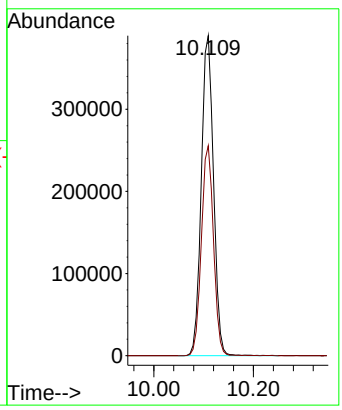


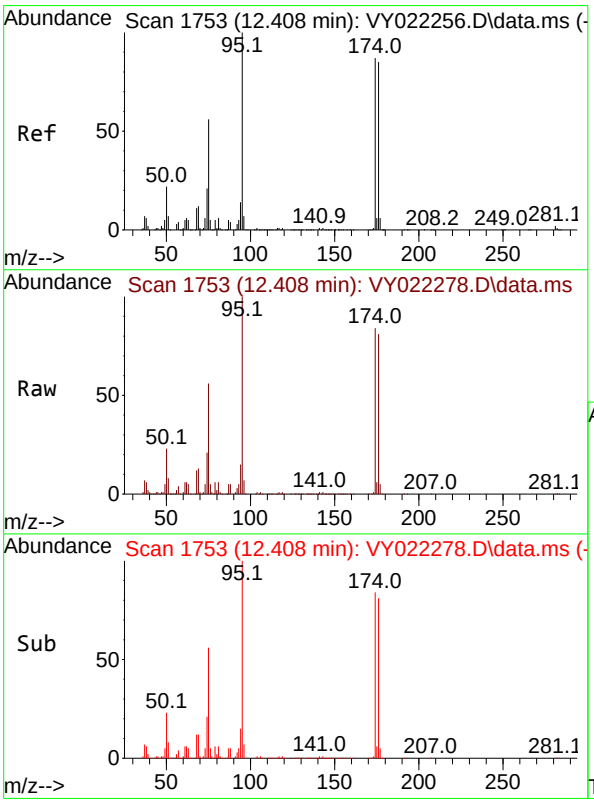
#50
Toluene-d8
Concen: 48.771 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022278.D
Acq: 16 May 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Tgt Ion: 98 Resp: 662270

Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.8	77.8

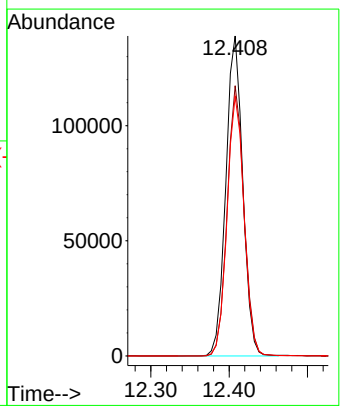


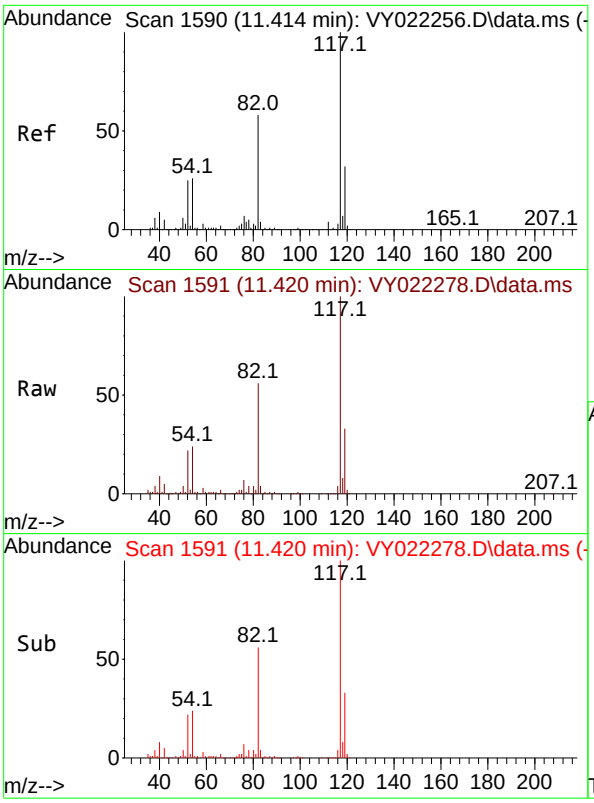


#62
4-Bromofluorobenzene
Concen: 48.485 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022278.D
Acq: 16 May 2025 09:37

Tgt Ion: 95 Resp: 208685

Ion	Ratio	Lower	Upper
95	100		
174	83.9	0.0	166.8
176	81.7	0.0	160.8



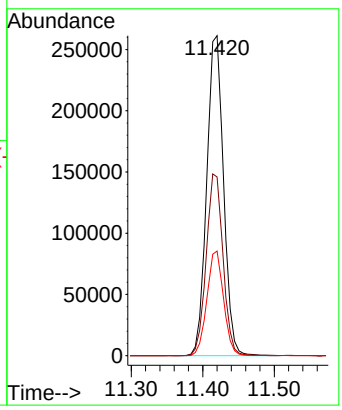


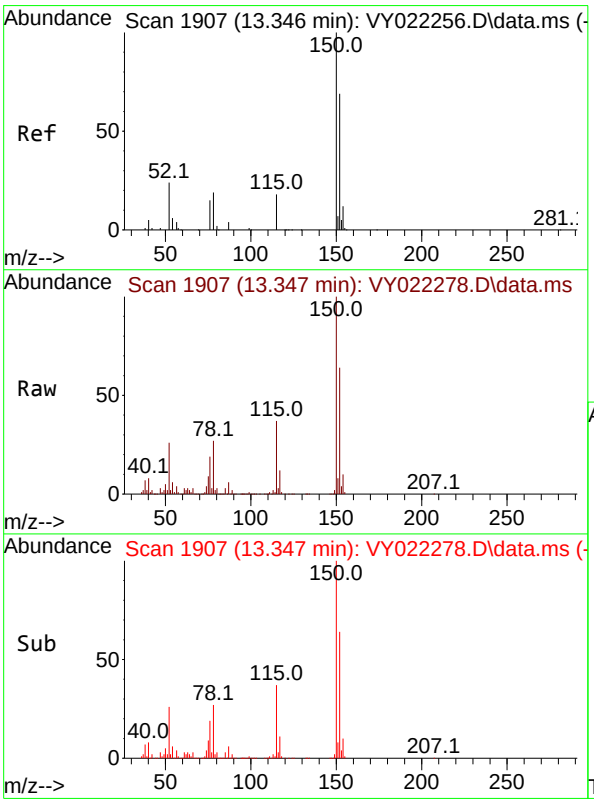
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022278.D
Acq: 16 May 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Tgt Ion:117 Resp: 426459

Ion	Ratio	Lower	Upper
117	100		
82	55.8	46.6	70.0
119	32.7	25.8	38.6

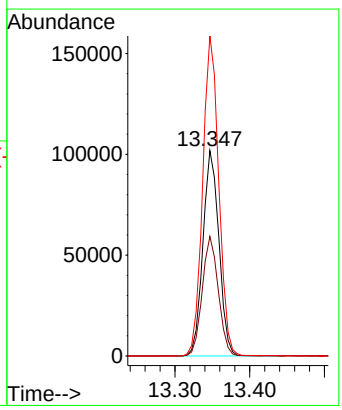




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022278.D
Acq: 16 May 2025 09:37

Tgt Ion:152 Resp: 151389

Ion	Ratio	Lower	Upper
152	100		
115	58.4	29.4	88.2
150	156.5	0.0	353.8



Sample Results: **VY022278.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022278.D
Acq On : 16 May 2025 09:37
Operator : SY/MD
Sample : VY0516SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022278.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.507	124	129	133	rBV6	15187	37517	2.06%	0.432%
2	7.634	960	970	976	rBV	227205	549094	30.21%	6.327%
3	7.707	976	982	995	rVB	419918	942727	51.86%	10.863%
4	8.061	1030	1040	1052	rBV	205731	447251	24.60%	5.154%
5	8.616	1122	1131	1145	rBV	679955	1321951	72.73%	15.232%
6	10.109	1368	1376	1387	rBV	1058309	1817733	100.00%	20.945%
7	11.414	1582	1590	1603	rBV	853205	1412662	77.72%	16.278%
8	12.408	1746	1753	1764	rBV	752746	1152576	63.41%	13.281%
9	13.347	1900	1907	1918	rVB	662743	997052	54.85%	11.489%

Sum of corrected areas: 8678563

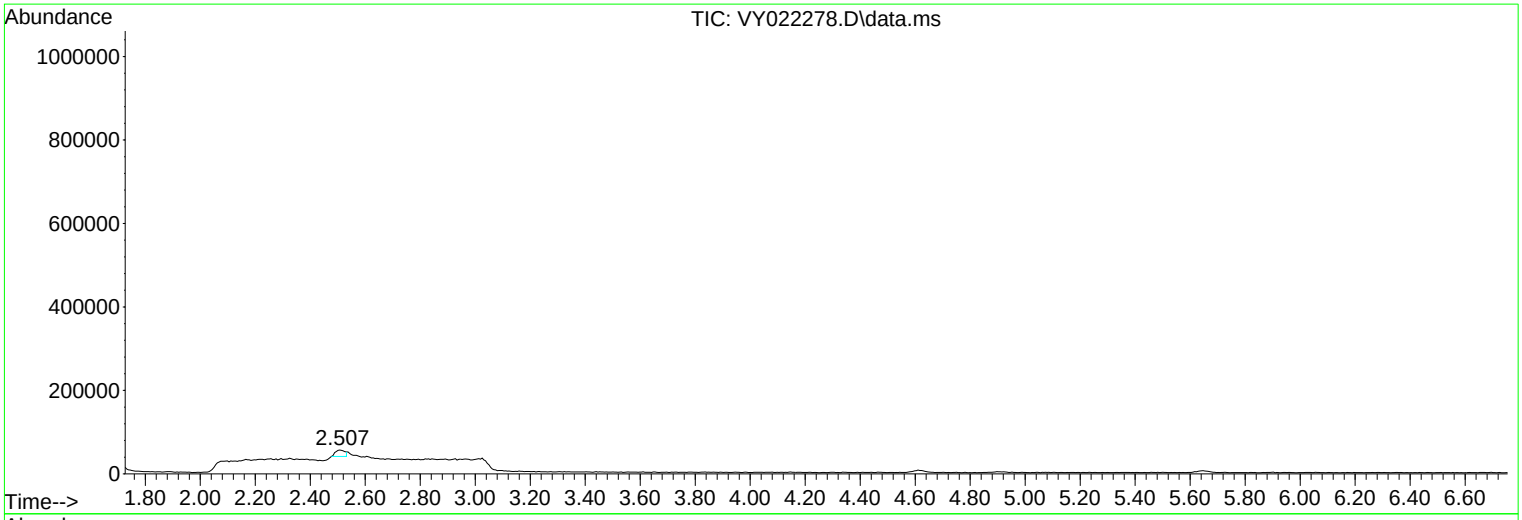
Sample Results: **VY022278.D**

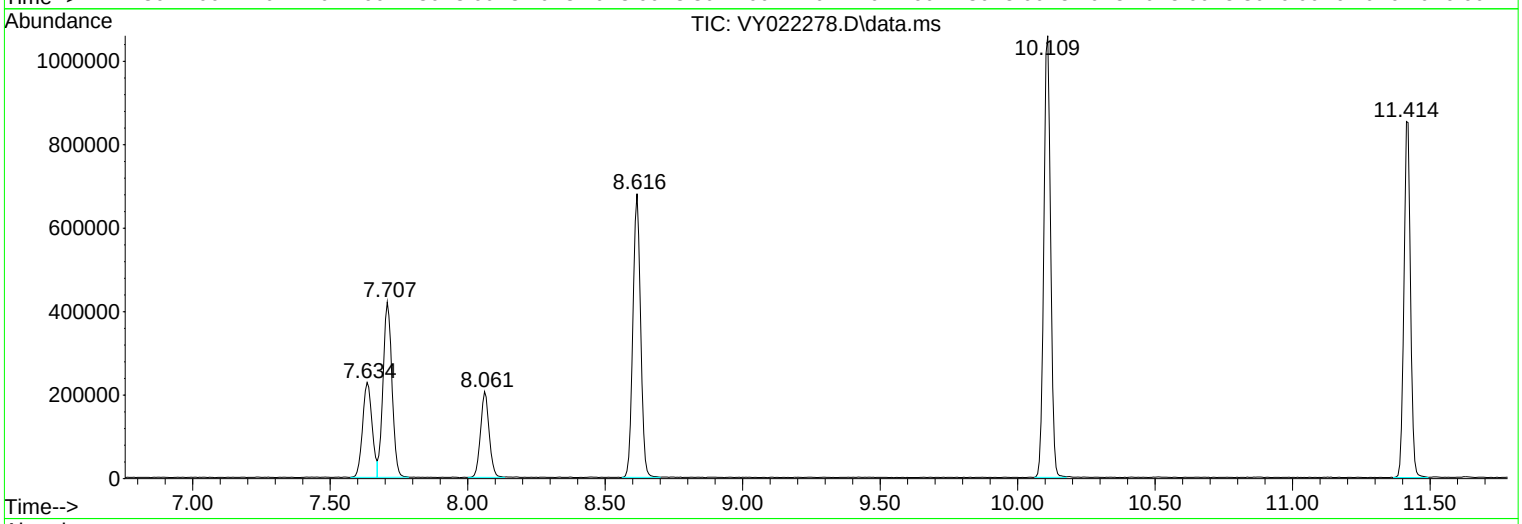
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022278.D
Acq On : 16 May 2025 09:37
Operator : SY/MD
Sample : VY0516SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

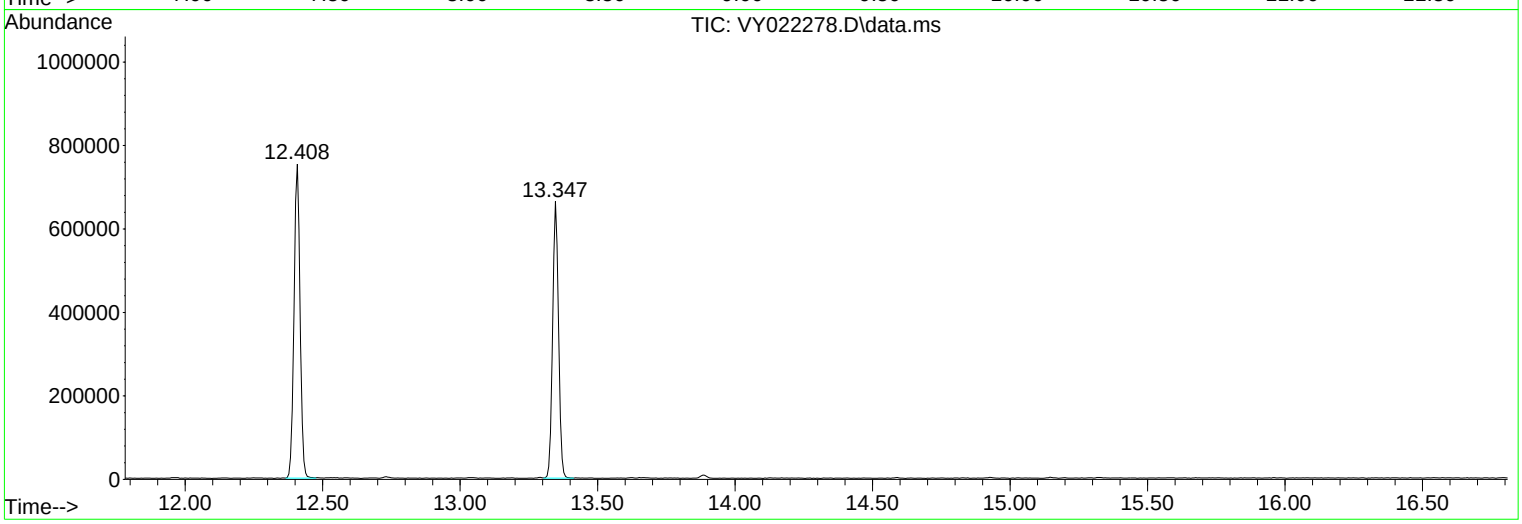
Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY022278.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022278.D
Acq On : 16 May 2025 09:37
Operator : SY/MD
Sample : VY0516SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY051625\
Data File : VY022278.D
Acq On : 16 May 2025 09:37
Operator : SY/MD
Sample : VY0516SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY051525\
Data File : VY022262.D
Acq On : 15 May 2025 14:07
Operator : SY/MD
Sample : VY0515SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 16 01:54:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	240556	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	405751	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	344872	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	163448	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	134549	51.178	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.360%			
35) Dibromofluoromethane	7.634	113	123849	51.140	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.280%			
50) Toluene-d8	10.103	98	508643	51.282	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.560%			
62) 4-Bromofluorobenzene	12.408	95	157889	50.222	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	55866	22.256	ug/l	96
3) Chloromethane	2.062	50	128835	24.400	ug/l	99
4) Vinyl Chloride	2.202	62	138947	23.553	ug/l	97
5) Bromomethane	2.592	94	119304	24.843	ug/l	100
6) Chloroethane	2.732	64	83509	22.754	ug/l	98
7) Trichlorofluoromethane	3.050	101	136929	22.926	ug/l	97
8) Diethyl Ether	3.452	74	29041	20.261	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	54846	21.152	ug/l	99
10) Methyl Iodide	4.001	142	55406	18.462	ug/l	98
11) Tert butyl alcohol	4.872	59	20159	100.411	ug/l #	100
12) 1,1-Dichloroethene	3.781	96	54958	21.358	ug/l	99
13) Acrolein	3.653	56	29036	98.931	ug/l	96
14) Allyl chloride	4.379	41	93389	20.699	ug/l	97
15) Acrylonitrile	5.055	53	60103	101.763	ug/l	99
16) Acetone	3.873	43	49514	100.441	ug/l	99
17) Carbon Disulfide	4.104	76	179245	21.362	ug/l	99
18) Methyl Acetate	4.385	43	29743	19.136	ug/l	96
19) Methyl tert-butyl Ether	5.110	73	144494	20.366	ug/l	99
20) Methylene Chloride	4.616	84	67724	21.261	ug/l	91
21) trans-1,2-Dichloroethene	5.110	96	58315	20.532	ug/l	96
22) Diisopropyl ether	6.018	45	196421	20.615	ug/l	100
23) Vinyl Acetate	5.958	43	578998	100.588	ug/l	99
24) 1,1-Dichloroethane	5.915	63	110449	20.749	ug/l	97
25) 2-Butanone	6.896	43	81164	98.430	ug/l	97
26) 2,2-Dichloropropane	6.884	77	98935	20.897	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	68417	20.875	ug/l	99
28) Bromochloromethane	7.244	49	47380	20.868	ug/l	100
29) Tetrahydrofuran	7.262	42	54316	102.386	ug/l	99
30) Chloroform	7.421	83	108086	21.169	ug/l	95
31) Cyclohexane	7.701	56	111819	21.025	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	98630	21.056	ug/l	98
36) 1,1-Dichloropropene	7.835	75	81482	20.427	ug/l	99
37) Ethyl Acetate	6.988	43	38460	20.039	ug/l	98
38) Carbon Tetrachloride	7.817	117	84041	20.354	ug/l	95
39) Methylcyclohexane	9.109	83	112902	21.067	ug/l	99
40) Benzene	8.079	78	245775	20.784	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022262.D
Acq On : 15 May 2025 14:07
Operator : SY/MD
Sample : VY0515SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 16 01:54:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	26058m	20.468	ug/l		
42) 1,2-Dichloroethane	8.158	62	65234	20.399	ug/l		100
43) Isopropyl Acetate	8.195	43	82723	19.763	ug/l	#	88
44) Trichloroethene	8.866	130	60548	20.593	ug/l		100
45) 1,2-Dichloropropane	9.140	63	58205	20.416	ug/l		96
46) Dibromomethane	9.231	93	31296	20.353	ug/l		99
47) Bromodichloromethane	9.420	83	83066	20.823	ug/l		99
48) Methyl methacrylate	9.219	41	38763	19.803	ug/l		98
49) 1,4-Dioxane	9.231	88	6813	392.199	ug/l		94
51) 4-Methyl-2-Pentanone	9.999	43	201472	98.097	ug/l		99
52) Toluene	10.170	92	150777	20.135	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	77444	19.893	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	91983	20.623	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	39755	20.190	ug/l		98
56) Ethyl methacrylate	10.438	69	60445	19.707	ug/l		99
57) 1,3-Dichloropropane	10.713	76	70964	20.284	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	124088	90.134	ug/l		100
59) 2-Hexanone	10.762	43	132798	96.437	ug/l		98
60) Dibromochloromethane	10.908	129	52808	20.662	ug/l		98
61) 1,2-Dibromoethane	11.012	107	36868	20.089	ug/l		100
64) Tetrachloroethene	10.646	164	63391	19.886	ug/l		98
65) Chlorobenzene	11.438	112	157927	20.297	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.511	131	52751	19.721	ug/l		99
67) Ethyl Benzene	11.518	91	292819	20.095	ug/l		98
68) m/p-Xylenes	11.627	106	218261	39.750	ug/l		99
69) o-Xylene	11.950	106	103620	19.946	ug/l		99
70) Styrene	11.969	104	173798	19.833	ug/l		99
71) Bromoform	12.127	173	28611	19.817	ug/l	#	99
73) Isopropylbenzene	12.255	105	272938	20.157	ug/l		100
74) N-amyl acetate	12.066	43	75451	19.483	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.505	83	41948	20.143	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	33194m	20.046	ug/l		
77) Bromobenzene	12.530	156	56683	19.600	ug/l		96
78) n-propylbenzene	12.590	91	336430	20.598	ug/l		99
79) 2-Chlorotoluene	12.676	91	177870	19.817	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	217065	19.858	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	15228	18.629	ug/l		99
82) 4-Chlorotoluene	12.779	91	184041	19.935	ug/l		100
83) tert-Butylbenzene	12.993	119	197455	20.324	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	216888	19.988	ug/l		99
85) sec-Butylbenzene	13.176	105	292767	20.300	ug/l		99
86) p-Isopropyltoluene	13.292	119	241434	19.905	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	115782	19.611	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	113146	19.924	ug/l		100
89) n-Butylbenzene	13.615	91	233741	20.370	ug/l		99
90) Hexachloroethane	13.877	117	49361	20.160	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	97586	19.678	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	6960	20.726	ug/l		95
93) 1,2,4-Trichlorobenzene	14.919	180	56627	19.768	ug/l		99
94) Hexachlorobutadiene	15.023	225	32198	20.155	ug/l		97
95) Naphthalene	15.145	128	102697	18.892	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	47086	19.376	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022262.D
Acq On : 15 May 2025 14:07
Operator : SY/MD
Sample : VY0515SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 16 01:54:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

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

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

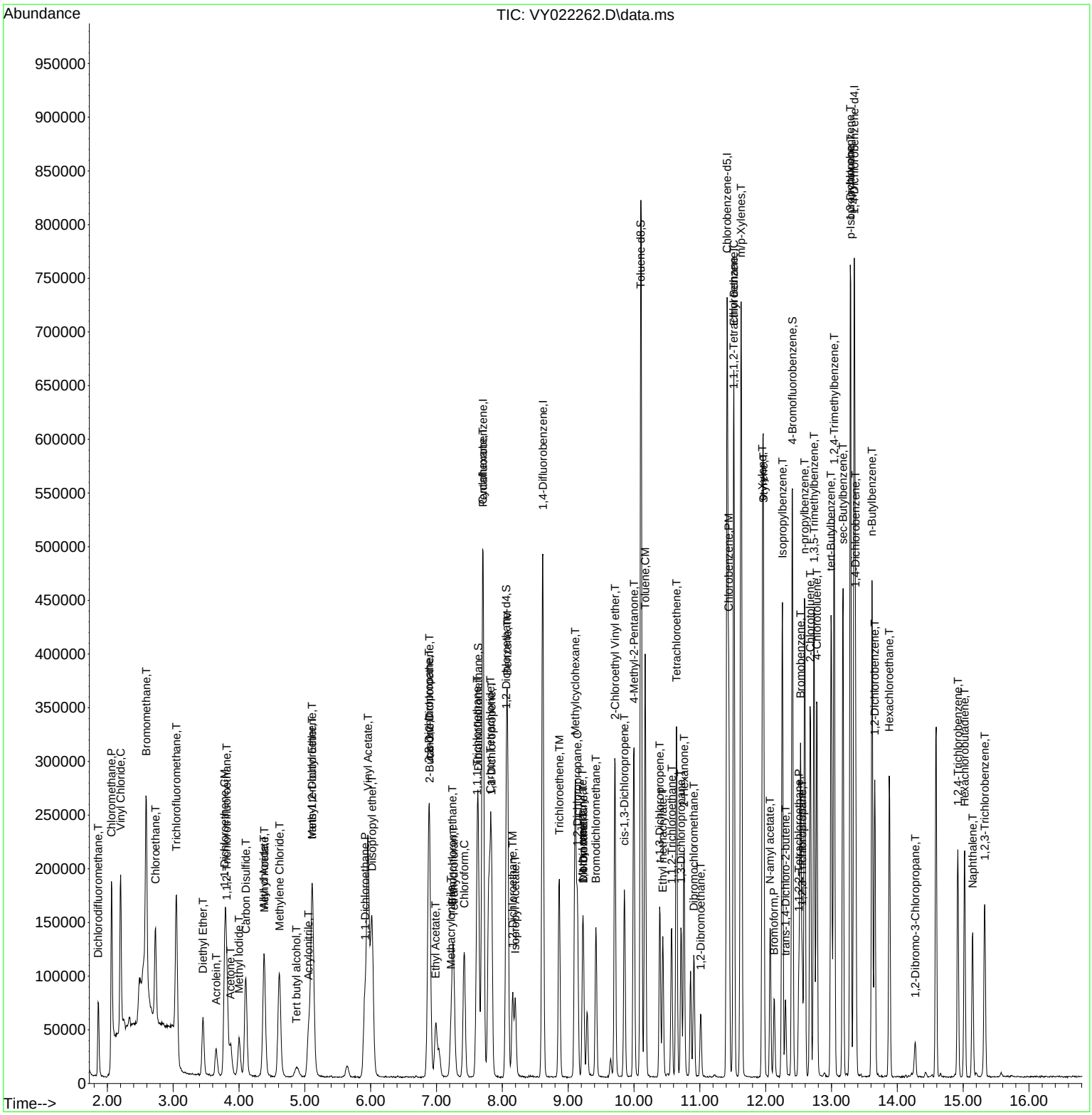
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022262.D
Acq On : 15 May 2025 14:07
Operator : SY/MD
Sample : VY0515SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 16 01:54:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022279.D
Acq On : 16 May 2025 10:09
Operator : SY/MD
Sample : VY0516SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 17 01:28:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025
Supervised By :Semsettin Yesilyurt 05/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	205076	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	351708	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	300126	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	141210	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	114577	51.121	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.240%			
35) Dibromofluoromethane	7.634	113	106659	50.809	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.620%			
50) Toluene-d8	10.109	98	437632	50.903	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.800%			
62) 4-Bromofluorobenzene	12.408	95	134691	49.426	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	45052	21.053	ug/l	96
3) Chloromethane	2.068	50	109640	24.357	ug/l	99
4) Vinyl Chloride	2.202	62	120955	24.051	ug/l	97
5) Bromomethane	2.592	94	108325	26.460	ug/l	96
6) Chloroethane	2.732	64	77272	24.698	ug/l	97
7) Trichlorofluoromethane	3.049	101	112994	22.191	ug/l	98
8) Diethyl Ether	3.452	74	24161	19.772	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	46362	20.973	ug/l	98
10) Methyl Iodide	4.000	142	47690	18.640	ug/l	99
11) Tert butyl alcohol	4.866	59	16251	94.950	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	45611	20.793	ug/l	96
13) Acrolein	3.653	56	22588	90.276	ug/l	98
14) Allyl chloride	4.385	41	76691	19.939	ug/l	97
15) Acrylonitrile	5.061	53	49210	97.735	ug/l	98
16) Acetone	3.879	43	35951	85.545	ug/l	98
17) Carbon Disulfide	4.104	76	148086	20.702	ug/l	98
18) Methyl Acetate	4.385	43	26179	19.757	ug/l	98
19) Methyl tert-butyl Ether	5.110	73	122697	20.286	ug/l	98
20) Methylene Chloride	4.616	84	54277	19.987	ug/l	91
21) trans-1,2-Dichloroethene	5.116	96	49533	20.457	ug/l	97
22) Diisopropyl ether	6.018	45	160728	19.788	ug/l	99
23) Vinyl Acetate	5.957	43	464752	94.709	ug/l	99
24) 1,1-Dichloroethane	5.915	63	92075	20.290	ug/l	98
25) 2-Butanone	6.896	43	64354	91.546	ug/l	100
26) 2,2-Dichloropropane	6.884	77	80883	20.039	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	57480	20.572	ug/l	99
28) Bromochloromethane	7.250	49	38175	19.722	ug/l	98
29) Tetrahydrofuran	7.268	42	43168	95.450	ug/l	96
30) Chloroform	7.421	83	90925	20.889	ug/l	99
31) Cyclohexane	7.701	56	89576	19.756	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	82428	20.641	ug/l	98
36) 1,1-Dichloropropene	7.835	75	67416	19.498	ug/l	99
37) Ethyl Acetate	6.988	43	30289	18.206	ug/l	96
38) Carbon Tetrachloride	7.817	117	70982	19.833	ug/l	98
39) Methylcyclohexane	9.109	83	90967	19.583	ug/l	96
40) Benzene	8.079	78	206032	20.100	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022279.D
Acq On : 16 May 2025 10:09
Operator : SY/MD
Sample : VY0516SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 17 01:28:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025
Supervised By :Semsettin Yesilyurt 05/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	20703m	18.760	ug/l		
42) 1,2-Dichloroethane	8.158	62	55663	20.081	ug/l		99
43) Isopropyl Acetate	8.201	43	66577	18.350	ug/l		100
44) Trichloroethene	8.865	130	52001	20.403	ug/l		99
45) 1,2-Dichloropropane	9.140	63	48024	19.433	ug/l		95
46) Dibromomethane	9.231	93	26030	19.529	ug/l		96
47) Bromodichloromethane	9.426	83	69687	20.153	ug/l		99
48) Methyl methacrylate	9.225	41	31270	18.429	ug/l		99
49) 1,4-Dioxane	9.237	88	5450	361.945	ug/l		95
51) 4-Methyl-2-Pentanone	9.999	43	161776	90.873	ug/l		98
52) Toluene	10.170	92	126577	19.501	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	63643	18.860	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	74469	19.261	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	33647	19.714	ug/l		96
56) Ethyl methacrylate	10.438	69	48650	18.299	ug/l		97
57) 1,3-Dichloropropane	10.719	76	58178	19.185	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	99985	83.786	ug/l		100
59) 2-Hexanone	10.761	43	106492	89.217	ug/l		99
60) Dibromochloromethane	10.914	129	43390	19.586	ug/l		98
61) 1,2-Dibromoethane	11.018	107	31515	19.811	ug/l		99
64) Tetrachloroethene	10.646	164	54813	19.759	ug/l		99
65) Chlorobenzene	11.444	112	133251	19.679	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.517	131	44554	19.140	ug/l		100
67) Ethyl Benzene	11.517	91	241283	19.027	ug/l		98
68) m/p-Xylenes	11.627	106	183701	38.444	ug/l		98
69) o-Xylene	11.956	106	87610	19.379	ug/l		96
70) Styrene	11.969	104	144454	18.942	ug/l		99
71) Bromoform	12.133	173	23136	18.414	ug/l	#	99
73) Isopropylbenzene	12.255	105	226293	19.344	ug/l		100
74) N-amyl acetate	12.072	43	59704	17.844	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	34300	19.065	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	27665m	19.338	ug/l		
77) Bromobenzene	12.529	156	47234	18.904	ug/l		97
78) n-propylbenzene	12.597	91	274165	19.430	ug/l		100
79) 2-Chlorotoluene	12.682	91	148305	19.125	ug/l		98
80) 1,3,5-Trimethylbenzene	12.737	105	178884	18.943	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	11847	16.775	ug/l		93
82) 4-Chlorotoluene	12.779	91	148832	18.660	ug/l		98
83) tert-Butylbenzene	12.999	119	161923	19.292	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	179642	19.163	ug/l		99
85) sec-Butylbenzene	13.176	105	239464	19.219	ug/l		99
86) p-Isopropyltoluene	13.291	119	197757	18.872	ug/l		98
87) 1,3-Dichlorobenzene	13.285	146	93936	18.416	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	92740	18.902	ug/l		99
89) n-Butylbenzene	13.615	91	191322	19.299	ug/l		98
90) Hexachloroethane	13.877	117	40730	19.255	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	81717	19.073	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5507	18.982	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	47875	19.345	ug/l		96
94) Hexachlorobutadiene	15.023	225	26080	18.897	ug/l		98
95) Naphthalene	15.145	128	86461	18.410	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	39190	18.667	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022279.D
Acq On : 16 May 2025 10:09
Operator : SY/MD
Sample : VY0516SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 17 01:28:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025
Supervised By :Semsettin Yesilyurt 05/19/2025

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

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

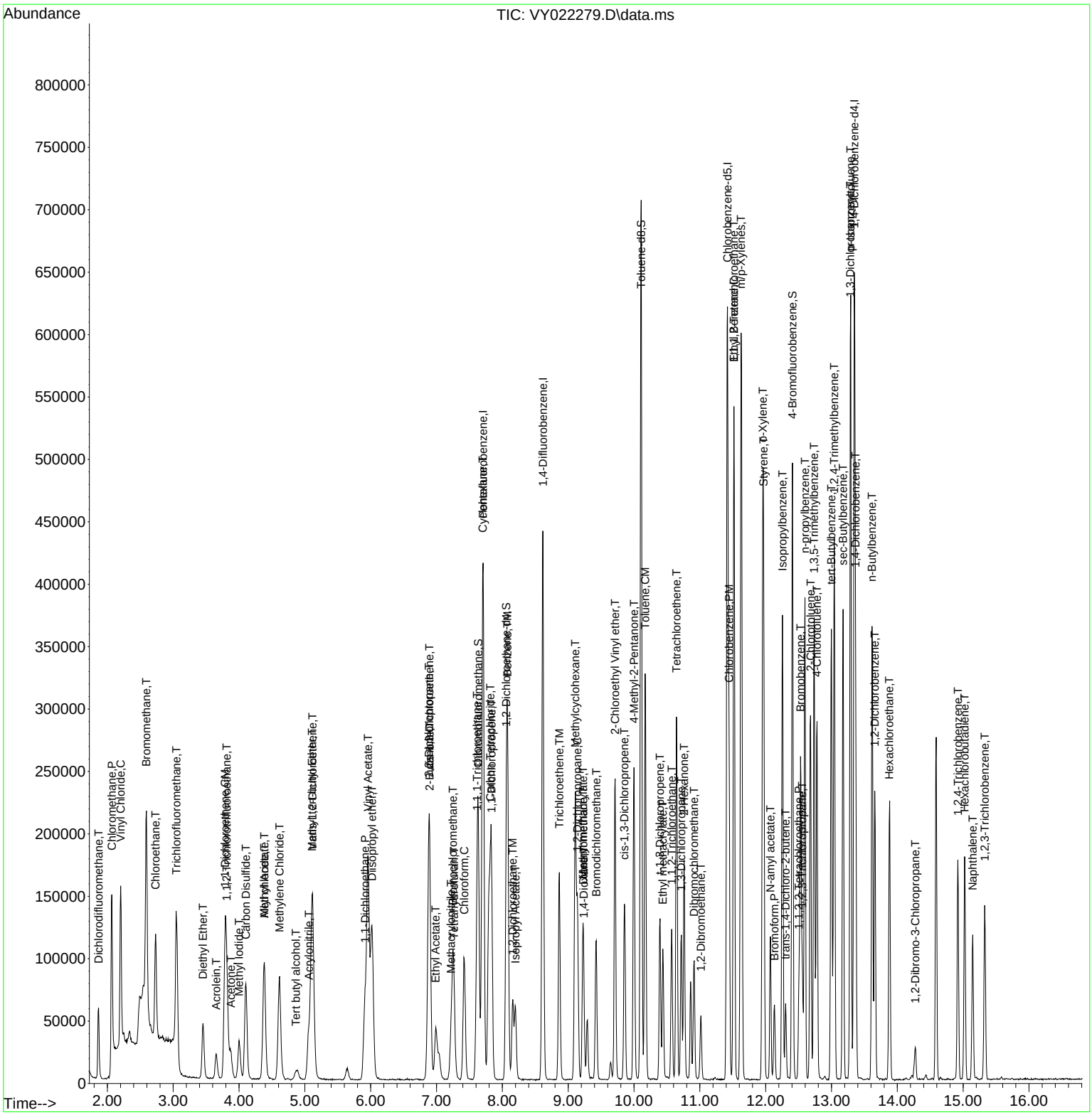
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022279.D
Acq On : 16 May 2025 10:09
Operator : SY/MD
Sample : VY0516SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 17 01:28:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025
Supervised By :Semsettin Yesilyurt 05/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022263.D
Acq On : 15 May 2025 14:29
Operator : SY/MD
Sample : VY0515SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 16 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	238919	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	402031	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	341987	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	161126	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	135626	51.941	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.880%			
35) Dibromofluoromethane	7.634	113	123255	51.366	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.740%			
50) Toluene-d8	10.103	98	503583	51.242	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.480%			
62) 4-Bromofluorobenzene	12.402	95	156883	50.364	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.720%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	53122	21.308	ug/l	100
3) Chloromethane	2.062	50	120806	23.036	ug/l	99
4) Vinyl Chloride	2.202	62	133825	22.841	ug/l	95
5) Bromomethane	2.586	94	115963	24.313	ug/l	97
6) Chloroethane	2.726	64	81580	22.381	ug/l	99
7) Trichlorofluoromethane	3.050	101	131275	22.130	ug/l	97
8) Diethyl Ether	3.452	74	30102	21.145	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	53293	20.694	ug/l	99
10) Methyl Iodide	4.001	142	56585	18.984	ug/l	98
11) Tert butyl alcohol	4.872	59	22281	111.741	ug/l #	100
12) 1,1-Dichloroethene	3.781	96	51053	19.977	ug/l	99
13) Acrolein	3.653	56	29646	101.701	ug/l	95
14) Allyl chloride	4.379	41	90707	20.242	ug/l	98
15) Acrylonitrile	5.061	53	63262	107.846	ug/l	100
16) Acetone	3.873	43	49080	100.243	ug/l	97
17) Carbon Disulfide	4.104	76	170931	20.511	ug/l	100
18) Methyl Acetate	4.385	43	32845	21.277	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	147866	20.984	ug/l	100
20) Methylene Chloride	4.616	84	67252	21.257	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	58391	20.700	ug/l	97
22) Diisopropyl ether	6.019	45	191390	20.225	ug/l	99
23) Vinyl Acetate	5.958	43	582104	101.820	ug/l	99
24) 1,1-Dichloroethane	5.915	63	107336	20.303	ug/l	99
25) 2-Butanone	6.896	43	84807	103.553	ug/l	94
26) 2,2-Dichloropropane	6.884	77	94109	20.013	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	65488	20.118	ug/l	99
28) Bromochloromethane	7.244	49	45781	20.301	ug/l	100
29) Tetrahydrofuran	7.262	42	57613	109.345	ug/l	98
30) Chloroform	7.421	83	103980	20.505	ug/l	97
31) Cyclohexane	7.695	56	104972	19.873	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	93522	20.102	ug/l	99
36) 1,1-Dichloropropene	7.835	75	78647	19.899	ug/l	99
37) Ethyl Acetate	6.982	43	41008	21.564	ug/l	98
38) Carbon Tetrachloride	7.817	117	80942	19.785	ug/l	98
39) Methylcyclohexane	9.109	83	105996	19.962	ug/l	98
40) Benzene	8.079	78	234747	20.035	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022263.D
Acq On : 15 May 2025 14:29
Operator : SY/MD
Sample : VY0515SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 16 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	23758m	18.834	ug/l		
42) 1,2-Dichloroethane	8.158	62	64565	20.377	ug/l		99
43) Isopropyl Acetate	8.195	43	86552	20.869	ug/l		98
44) Trichloroethene	8.866	130	57705	19.807	ug/l		97
45) 1,2-Dichloropropane	9.140	63	56246	19.911	ug/l		99
46) Dibromomethane	9.231	93	31011	20.354	ug/l		99
47) Bromodichloromethane	9.420	83	80217	20.295	ug/l		97
48) Methyl methacrylate	9.219	41	39908	20.576	ug/l		99
49) 1,4-Dioxane	9.237	88	7653	444.632	ug/l		96
51) 4-Methyl-2-Pentanone	10.000	43	213720	105.023	ug/l		98
52) Toluene	10.170	92	144686	19.501	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	76950	19.949	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	88052	19.924	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	40220	20.615	ug/l		94
56) Ethyl methacrylate	10.438	69	62553	20.583	ug/l		99
57) 1,3-Dichloropropane	10.719	76	71496	20.625	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	129032	94.593	ug/l		99
59) 2-Hexanone	10.762	43	142594	104.509	ug/l		99
60) Dibromochloromethane	10.908	129	51719	20.424	ug/l		98
61) 1,2-Dibromoethane	11.012	107	37293	20.509	ug/l		96
64) Tetrachloroethene	10.646	164	62797	19.866	ug/l		96
65) Chlorobenzene	11.438	112	153929	19.950	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.511	131	50248	18.944	ug/l		97
67) Ethyl Benzene	11.518	91	283493	19.619	ug/l		98
68) m/p-Xylenes	11.627	106	212811	39.085	ug/l		98
69) o-Xylene	11.950	106	101365	19.677	ug/l		97
70) Styrene	11.969	104	168741	19.418	ug/l		99
71) Bromoform	12.127	173	29512	20.613	ug/l	#	98
73) Isopropylbenzene	12.255	105	261986	19.627	ug/l		100
74) N-amyl acetate	12.066	43	79208	20.747	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	43741	21.307	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	33956m	20.802	ug/l		
77) Bromobenzene	12.530	156	55800	19.572	ug/l		98
78) n-propylbenzene	12.591	91	317668	19.730	ug/l		99
79) 2-Chlorotoluene	12.676	91	172805	19.530	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	208067	19.309	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	16041	19.907	ug/l		99
82) 4-Chlorotoluene	12.773	91	178952	19.663	ug/l		100
83) tert-Butylbenzene	12.993	119	190568	19.898	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	210149	19.646	ug/l		99
85) sec-Butylbenzene	13.176	105	281045	19.768	ug/l		99
86) p-Isopropyltoluene	13.292	119	233015	19.488	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	112481	19.326	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	111832	19.976	ug/l		99
89) n-Butylbenzene	13.615	91	225170	19.906	ug/l		99
90) Hexachloroethane	13.877	117	47537	19.695	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	97586	19.962	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7093	21.427	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	58146	20.591	ug/l		98
94) Hexachlorobutadiene	15.023	225	33000	20.955	ug/l		98
95) Naphthalene	15.145	128	111947	20.890	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	50425	21.049	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022263.D
Acq On : 15 May 2025 14:29
Operator : SY/MD
Sample : VY0515SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 16 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

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

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

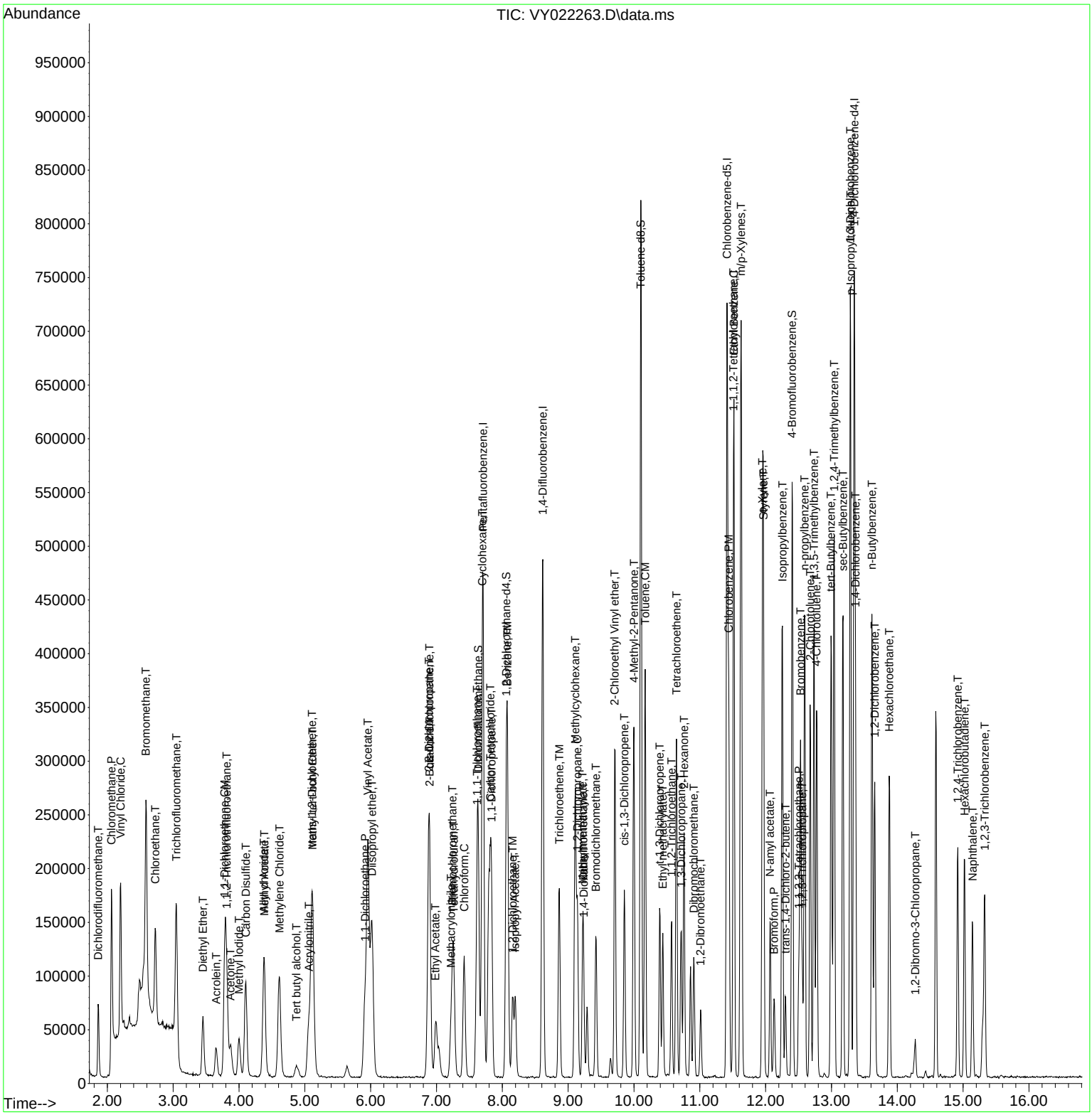
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022263.D
Acq On : 15 May 2025 14:29
Operator : SY/MD
Sample : VY0515SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 16 01:55:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0515SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025



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Manual Integration Report

Sequence:	VY051525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY022253.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC005	VY022253.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC005	VY022253.D	Methyl Acetate	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC010	VY022254.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:33 AM	Sam	5/16/2025 11:50:49 AM	Peak Integrated by Software
VSTDICC010	VY022254.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:33 AM	Sam	5/16/2025 11:50:49 AM	Peak Integrated by Software
VSTDICC020	VY022255.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:32 AM	Sam	5/16/2025 11:50:48 AM	Peak Integrated by Software
VSTDICC020	VY022255.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:32 AM	Sam	5/16/2025 11:50:48 AM	Peak Integrated by Software
VSTDICCC050	VY022256.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:30 AM	Sam	5/16/2025 11:50:46 AM	Peak Integrated by Software
VSTDICCC050	VY022256.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:30 AM	Sam	5/16/2025 11:50:46 AM	Peak Integrated by Software
VSTDICC100	VY022257.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:28 AM	Sam	5/16/2025 11:50:45 AM	Peak Integrated by Software
VSTDICC100	VY022257.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:28 AM	Sam	5/16/2025 11:50:45 AM	Peak Integrated by Software
VSTDICC150	VY022258.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:27 AM	Sam	5/16/2025 11:50:43 AM	Peak Integrated by Software
VSTDICC150	VY022258.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:27 AM	Sam	5/16/2025 11:50:43 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY051525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VY022260.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:25 AM	Sam	5/16/2025 11:50:42 AM	Peak Integrated by Software
VSTDICV050	VY022260.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:25 AM	Sam	5/16/2025 11:50:42 AM	Peak Integrated by Software
VY0515SBS01	VY022262.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:23 AM	Sam	5/16/2025 11:50:30 AM	Peak Integrated by Software
VY0515SBS01	VY022262.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:23 AM	Sam	5/16/2025 11:50:30 AM	Peak Integrated by Software
VY0515SBSD01	VY022263.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:22 AM	Sam	5/16/2025 11:50:29 AM	Peak Integrated by Software
VY0515SBSD01	VY022263.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:22 AM	Sam	5/16/2025 11:50:29 AM	Peak Integrated by Software
VSTDCCC050	VY022275.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:21 AM	Sam	5/16/2025 11:50:27 AM	Peak Integrated by Software
VSTDCCC050	VY022275.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:21 AM	Sam	5/16/2025 11:50:27 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY051625	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022277.D	1,2,3-Trichloropropane	MMDadoda	5/19/2025 2:38:54 PM	Sam	5/19/2025 2:44:19 PM	Peak Integrated by Software
VY0516SBS01	VY022279.D	1,2,3-Trichloropropane	MMDadoda	5/19/2025 2:38:56 PM	Sam	5/19/2025 2:44:20 PM	Peak Integrated by Software
VY0516SBS01	VY022279.D	Methacrylonitrile	MMDadoda	5/19/2025 2:38:56 PM	Sam	5/19/2025 2:44:20 PM	Peak Integrated by Software
VSTDCCC050	VY022301.D	1,2,3-Trichloropropane	MMDadoda	5/19/2025 2:39:03 PM	Sam	5/19/2025 2:44:28 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM				
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022252.D	15 May 2025 07:52	SY/MD	Ok
2	VSTDICC005	VY022253.D	15 May 2025 09:46	SY/MD	Ok,M
3	VSTDICC010	VY022254.D	15 May 2025 10:16	SY/MD	Ok,M
4	VSTDICC020	VY022255.D	15 May 2025 10:39	SY/MD	Ok,M
5	VSTDICCC050	VY022256.D	15 May 2025 11:02	SY/MD	Ok,M
6	VSTDICC100	VY022257.D	15 May 2025 11:24	SY/MD	Ok,M
7	VSTDICC150	VY022258.D	15 May 2025 11:47	SY/MD	Ok,M
8	VIBLK	VY022259.D	15 May 2025 12:34	SY/MD	Ok
9	VSTDICV050	VY022260.D	15 May 2025 13:20	SY/MD	Ok,M
10	VY0515SBL01	VY022261.D	15 May 2025 13:44	SY/MD	Ok
11	VY0515SBS01	VY022262.D	15 May 2025 14:07	SY/MD	Ok,M
12	VY0515SBSD01	VY022263.D	15 May 2025 14:29	SY/MD	Ok,M
13	Q1984-01	VY022264.D	15 May 2025 15:12	SY/MD	Ok
14	Q1984-03	VY022265.D	15 May 2025 15:35	SY/MD	Ok
15	Q1984-05	VY022266.D	15 May 2025 15:59	SY/MD	Ok
16	Q1984-07	VY022267.D	15 May 2025 16:22	SY/MD	ReRun
17	Q1984-09	VY022268.D	15 May 2025 16:46	SY/MD	Not Ok
18	Q1984-11	VY022269.D	15 May 2025 17:09	SY/MD	Not Ok
19	Q1984-13	VY022270.D	15 May 2025 17:33	SY/MD	Not Ok
20	Q1984-15	VY022271.D	15 May 2025 17:56	SY/MD	ReRun
21	Q1982-04	VY022272.D	15 May 2025 18:19	SY/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM				
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1982-05	VY022273.D	15 May 2025 18:43	SY/MD	Ok
23	Q1982-06	VY022274.D	15 May 2025 19:06	SY/MD	Ok
24	VSTDCCC050	VY022275.D	15 May 2025 19:52	SY/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051625

Review By	Amit Patel	Review On	5/19/2025 1:35:43 PM				
Supervise By	Mahesh Dadoda	Supervise On	5/19/2025 2:39:18 PM				
SubDirectory	VY051625	HP Acquire Method	MSVOA_Y		HP Processing Method	82y051525s.m	

STD. NAME	STD REF.#
Tune/Reschk	VP133936
Initial Calibration Stds	
CCC	VP133942,VP133943
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	VY022276.D	16 May 2025 07:54	SY/MD	Ok
2	VSTDCCC050	VY022277.D	16 May 2025 08:24	SY/MD	Ok,M
3	VY0516SBL01	VY022278.D	16 May 2025 09:37	SY/MD	Ok
4	VY0516SBS01	VY022279.D	16 May 2025 10:09	SY/MD	Ok,M
5	VY0516SBSD01	VY022280.D	16 May 2025 10:32	SY/MD	Ok,M
6	Q1984-07RE	VY022281.D	16 May 2025 11:17	SY/MD	Confirms
7	Q1984-09	VY022282.D	16 May 2025 11:41	SY/MD	Ok
8	Q1984-11	VY022283.D	16 May 2025 12:04	SY/MD	Ok
9	Q1984-13	VY022284.D	16 May 2025 12:29	SY/MD	Ok
10	Q1984-15RE	VY022285.D	16 May 2025 12:54	SY/MD	Not Ok
11	Q1982-01	VY022286.D	16 May 2025 13:17	SY/MD	Ok
12	Q1982-02	VY022287.D	16 May 2025 13:41	SY/MD	Ok
13	Q1982-03	VY022288.D	16 May 2025 14:04	SY/MD	Ok
14	Q1982-07	VY022289.D	16 May 2025 14:28	SY/MD	Ok
15	Q1982-08	VY022290.D	16 May 2025 14:51	SY/MD	Ok
16	Q2010-03	VY022291.D	16 May 2025 15:15	SY/MD	Ok
17	Q2010-04	VY022292.D	16 May 2025 15:38	SY/MD	Ok
18	Q2003-02	VY022293.D	16 May 2025 16:02	SY/MD	ReRun
19	Q2032-03	VY022294.D	16 May 2025 16:25	SY/MD	Ok
20	Q2032-04	VY022295.D	16 May 2025 16:48	SY/MD	Ok
21	Q2032-07	VY022296.D	16 May 2025 17:12	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 # VY051625

Review By	Amit Patel	Review On	5/19/2025 1:35:43 PM				
Supervise By	Mahesh Dadoda	Supervise On	5/19/2025 2:39:18 PM				
SubDirectory	VY051625	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133936
Initial Calibration Stds	
CCC	VP133942,VP133943
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2032-08	VY022297.D	16 May 2025 17:35	SY/MD	Ok
23	Q2032-02	VY022298.D	16 May 2025 17:59	SY/MD	Ok
24	Q2032-05MS	VY022299.D	16 May 2025 18:21	SY/MD	Not Ok
25	Q2032-06MSD	VY022300.D	16 May 2025 18:44	SY/MD	Not Ok
26	VSTDCCC050	VY022301.D	16 May 2025 19:29	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 # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022252.D	15 May 2025 07:52		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY022253.D	15 May 2025 09:46		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY022254.D	15 May 2025 10:16		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY022255.D	15 May 2025 10:39		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY022256.D	15 May 2025 11:02		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY022257.D	15 May 2025 11:24		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY022258.D	15 May 2025 11:47		SY/MD	Ok,M
8	VIBLK	VIBLK	VY022259.D	15 May 2025 12:34		SY/MD	Ok
9	VSTDICV050	ICVVY051525	VY022260.D	15 May 2025 13:20		SY/MD	Ok,M
10	VY0515SBL01	VY0515SBL01	VY022261.D	15 May 2025 13:44		SY/MD	Ok
11	VY0515SBS01	VY0515SBS01	VY022262.D	15 May 2025 14:07		SY/MD	Ok,M
12	VY0515SBSD01	VY0515SBSD01	VY022263.D	15 May 2025 14:29		SY/MD	Ok,M
13	Q1984-01	OU4-PCS-TC-33-05072	VY022264.D	15 May 2025 15:12	vial-A	SY/MD	Ok
14	Q1984-03	OU4-PCS-TC-34-05072	VY022265.D	15 May 2025 15:35	vial-A	SY/MD	Ok
15	Q1984-05	OU4-PCS-TC-35-05072	VY022266.D	15 May 2025 15:59	vial-A	SY/MD	Ok
16	Q1984-07	OU4-TS-24-050725	VY022267.D	15 May 2025 16:22	vial-A Surrogate fail	SY/MD	ReRun
17	Q1984-09	OU4-TS-25-050725	VY022268.D	15 May 2025 16:46	vial-A Surrogate fail	SY/MD	Not Ok
18	Q1984-11	OU4-TS-26-050725	VY022269.D	15 May 2025 17:09	vial-A Surrogate fail	SY/MD	Not Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1984-13	OU4-TS-27-050725	VY022270.D	15 May 2025 17:33	vial-A Surrogate fail	SY/MD	Not Ok
20	Q1984-15	OU4-TS-28-050725	VY022271.D	15 May 2025 17:56	vial-A Surrogate fail	SY/MD	ReRun
21	Q1982-04	TP-4	VY022272.D	15 May 2025 18:19	vial-A	SY/MD	Ok
22	Q1982-05	TP-5	VY022273.D	15 May 2025 18:43	vial-A	SY/MD	Ok
23	Q1982-06	TP-6	VY022274.D	15 May 2025 19:06	vial-A	SY/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VY022275.D	15 May 2025 19:52		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051625

Review By	Amit Patel	Review On	5/19/2025 1:35:43 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/19/2025 2:39:18 PM		
SubDirectory	VY051625	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133936
Initial Calibration Stds	
CCC	VP133942,VP133943
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	VY022276.D	16 May 2025 07:54		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022277.D	16 May 2025 08:24		SY/MD	Ok,M
3	VY0516SBL01	VY0516SBL01	VY022278.D	16 May 2025 09:37		SY/MD	Ok
4	VY0516SBS01	VY0516SBS01	VY022279.D	16 May 2025 10:09		SY/MD	Ok,M
5	VY0516SBSD01	VY0516SBSD01	VY022280.D	16 May 2025 10:32		SY/MD	Ok,M
6	Q1984-07RE	OU4-TS-24-050725RE	VY022281.D	16 May 2025 11:17	vial-B Surrogate fail	SY/MD	Confirms
7	Q1984-09	OU4-TS-25-050725	VY022282.D	16 May 2025 11:41	vial-B	SY/MD	Ok
8	Q1984-11	OU4-TS-26-050725	VY022283.D	16 May 2025 12:04	vial-B	SY/MD	Ok
9	Q1984-13	OU4-TS-27-050725	VY022284.D	16 May 2025 12:29	vial-B	SY/MD	Ok
10	Q1984-15RE	OU4-TS-28-050725RE	VY022285.D	16 May 2025 12:54	vial-B Surrogate fail;Not match for com.#16	SY/MD	Not Ok
11	Q1982-01	TP-1	VY022286.D	16 May 2025 13:17	vial-B	SY/MD	Ok
12	Q1982-02	TP-2B	VY022287.D	16 May 2025 13:41	vial-B	SY/MD	Ok
13	Q1982-03	TP-3	VY022288.D	16 May 2025 14:04	Vial A	SY/MD	Ok
14	Q1982-07	TP-8	VY022289.D	16 May 2025 14:28	Vial A	SY/MD	Ok
15	Q1982-08	TP-9	VY022290.D	16 May 2025 14:51	Vial A	SY/MD	Ok
16	Q2010-03	TP-14	VY022291.D	16 May 2025 15:15	vial-B	SY/MD	Ok
17	Q2010-04	TP-17	VY022292.D	16 May 2025 15:38	vial-B	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051625

Review By	Amit Patel	Review On	5/19/2025 1:35:43 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/19/2025 2:39:18 PM		
SubDirectory	VY051625	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133936
Initial Calibration Stds	
CCC	VP133942,VP133943
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2003-02	VOC	VY022293.D	16 May 2025 16:02	vial-A Internal standard fail	SY/MD	ReRun
19	Q2032-03	TP-29-99	VY022294.D	16 May 2025 16:25	vial-A	SY/MD	Ok
20	Q2032-04	TP-24	VY022295.D	16 May 2025 16:48	vial-A	SY/MD	Ok
21	Q2032-07	TP-37	VY022296.D	16 May 2025 17:12	vial-A	SY/MD	Ok
22	Q2032-08	TP-32	VY022297.D	16 May 2025 17:35	vial-A	SY/MD	Ok
23	Q2032-02	TP-29	VY022298.D	16 May 2025 17:59	vial-A	SY/MD	Ok
24	Q2032-05MS	TP-24MS	VY022299.D	16 May 2025 18:21	vial-A Internal standard fail;Recovery Fail	SY/MD	Not Ok
25	Q2032-06MSD	TP-24MSD	VY022300.D	16 May 2025 18:44	vial-A Internal standard fail;Surrogate fail	SY/MD	Not Ok
26	VSTDCCC050	VSTDCCC050EC	VY022301.D	16 May 2025 19:29		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1982	**OrderDate:**	5/7/2025 3:20:42 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1982-01	**TP-1**	**SOIL**			**05/06/25**			**05/07/25**
			VOC-TCLVOA-10	8260D			05/16/25	
Q1982-02	**TP-2B**	**SOIL**			**05/06/25**			**05/07/25**
			VOC-TCLVOA-10	8260D			05/16/25	
Q1982-03	**TP-3**	**SOIL**			**05/06/25**			**05/07/25**
			VOC-TCLVOA-10	8260D			05/16/25	
Q1982-04	**TP-4**	**SOIL**			**05/07/25**			**05/07/25**
			VOC-TCLVOA-10	8260D			05/15/25	
Q1982-05	**TP-5**	**SOIL**			**05/07/25**			**05/07/25**
			VOC-TCLVOA-10	8260D			05/15/25	
Q1982-06	**TP-6**	**SOIL**			**05/07/25**			**05/07/25**
			VOC-TCLVOA-10	8260D			05/15/25	
Q1982-07	**TP-8**	**SOIL**			**05/07/25**			**05/07/25**
			VOC-TCLVOA-10	8260D			05/16/25	
Q1982-08	**TP-9**	**SOIL**			**05/07/25**			**05/07/25**
			VOC-TCLVOA-10	8260D			05/16/25	