

Hit Summary Sheet
SW-846

SDG No.: Q2176
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TP-26							
Q2176-04	TP-26	SOIL	Acetone	12.0	J	3.70	19.4	ug/Kg
Q2176-04	TP-26	SOIL	Methylene Chloride	2.70	J	2.70	7.70	ug/Kg
			Total Voc :	14.7				
Q2176-04	TP-26	SOIL	1,3,5-Trimethylbenzene	* 1.30	J	0.63	3.90	ug/Kg
Q2176-04	TP-26	SOIL	1,2,4-Trimethylbenzene	* 0.86	J	0.50	3.90	ug/Kg
			Total Tics :	2.16				
			Total Concentration:	16.9				
Client ID:	TP-31							
Q2176-07	TP-31	SOIL	Methylene Chloride	4.60	J	3.70	10.5	ug/Kg
			Total Voc :	4.60				
			Total Concentration:	4.60				



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-46	SDG No.:	Q2176
Lab Sample ID:	Q2176-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	7.12 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
VY022526.D	1		06/03/25 16:35	VY060325

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	0.96	U	0.96	4.20	ug/Kg
67-66-3	Chloroform	0.70	U	0.70	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	0.65	U	0.65	4.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	21.0	ug/Kg
108-88-3	Toluene	0.65	U	0.65	4.20	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-46	SDG No.:	Q2176
Lab Sample ID:	Q2176-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	7.12 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
VY022526.D	1		06/03/25 16:35	VY060325

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	0.65	U	0.65	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	51.8		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.6		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.1		17 - 146	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	269000	7.707			
540-36-3	1,4-Difluorobenzene	505000	8.609			
3114-55-4	Chlorobenzene-d5	411000	11.413			
3855-82-1	1,4-Dichlorobenzene-d4	155000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-46	SDG No.:	Q2176
Lab Sample ID:	Q2176-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	7.12	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022526.D	1		06/03/25 16:35	VY060325

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-56	SDG No.:	Q2176
Lab Sample ID:	Q2176-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	5.9 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
VY022527.D	1		06/03/25 16:58	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.90	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.90	ug/Kg
75-01-4	Vinyl Chloride	0.78	U	0.78	4.90	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	4.90	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.90	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	4.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.98	U	0.98	4.90	ug/Kg
67-64-1	Acetone	4.70	U	4.70	24.6	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.72	U	0.72	4.90	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.90	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	9.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.85	U	0.85	4.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.79	U	0.79	4.90	ug/Kg
110-82-7	Cyclohexane	0.78	U	0.78	4.90	ug/Kg
78-93-3	2-Butanone	6.40	U	6.40	24.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.95	U	0.95	4.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.74	U	0.74	4.90	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.90	ug/Kg
67-66-3	Chloroform	0.83	U	0.83	4.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.91	U	0.91	4.90	ug/Kg
108-87-2	Methylcyclohexane	0.89	U	0.89	4.90	ug/Kg
71-43-2	Benzene	0.78	U	0.78	4.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.78	U	0.78	4.90	ug/Kg
79-01-6	Trichloroethene	0.80	U	0.80	4.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.89	U	0.89	4.90	ug/Kg
75-27-4	Bromodichloromethane	0.77	U	0.77	4.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	24.6	ug/Kg
108-88-3	Toluene	0.77	U	0.77	4.90	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-56	SDG No.:	Q2176
Lab Sample ID:	Q2176-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	5.9 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
VY022527.D	1		06/03/25 16:58	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.64	U	0.64	4.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.61	U	0.61	4.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.90	U	0.90	4.90	ug/Kg
591-78-6	2-Hexanone	3.60	U	3.60	24.6	ug/Kg
124-48-1	Dibromochloromethane	0.86	U	0.86	4.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.87	U	0.87	4.90	ug/Kg
127-18-4	Tetrachloroethene	1.00	U	1.00	4.90	ug/Kg
108-90-7	Chlorobenzene	0.89	U	0.89	4.90	ug/Kg
100-41-4	Ethyl Benzene	0.66	U	0.66	4.90	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.80	ug/Kg
95-47-6	o-Xylene	0.81	U	0.81	4.90	ug/Kg
100-42-5	Styrene	0.70	U	0.70	4.90	ug/Kg
75-25-2	Bromoform	0.85	U	0.85	4.90	ug/Kg
98-82-8	Isopropylbenzene	0.77	U	0.77	4.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	4.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	4.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	4.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.90	U	2.90	4.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.10	U	3.10	4.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.5		63 - 155	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	49.2		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.3		17 - 146	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	259000	7.707			
540-36-3	1,4-Difluorobenzene	475000	8.61			
3114-55-4	Chlorobenzene-d5	372000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.347			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-56	SDG No.:	Q2176
Lab Sample ID:	Q2176-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.2
Sample Wt/Vol:	5.9	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022527.D	1		06/03/25 16:58	VY060325

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-25	SDG No.:	Q2176
Lab Sample ID:	Q2176-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.7
Sample Wt/Vol:	5.87 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
VY022528.D	1		06/03/25 17:22	VY060325

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	0.99	U	0.99	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	24.8	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	9.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.85	U	0.85	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	24.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.96	U	0.96	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	5.00	ug/Kg
67-66-3	Chloroform	0.83	U	0.83	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.90	U	0.90	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	0.90	U	0.90	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	24.8	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-25	SDG No.:	Q2176
Lab Sample ID:	Q2176-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.7
Sample Wt/Vol:	5.87 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
VY022528.D	1		06/03/25 17:22	VY060325

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	0.91	U	0.91	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	24.8	ug/Kg
124-48-1	Dibromochloromethane	0.86	U	0.86	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.87	U	0.87	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.00	U	1.00	5.00	ug/Kg
108-90-7	Chlorobenzene	0.90	U	0.90	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	9.90	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	0.85	U	0.85	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	1.40	U	1.40	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	48.1		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	49.4		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.2		17 - 146	78%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	278000	7.707			
540-36-3	1,4-Difluorobenzene	502000	8.61			
3114-55-4	Chlorobenzene-d5	388000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	134000	13.347			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-25	SDG No.:	Q2176
Lab Sample ID:	Q2176-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.7
Sample Wt/Vol:	5.87	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 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
VY022528.D	1		06/03/25 17:22	VY060325

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-26	SDG No.:	Q2176
Lab Sample ID:	Q2176-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.2
Sample Wt/Vol:	7.58 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
VY022529.D	1		06/03/25 17:45	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	U	0.88	3.90	ug/Kg
74-87-3	Chloromethane	0.88	U	0.88	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.61	U	0.61	3.90	ug/Kg
74-83-9	Bromomethane	0.83	U	0.83	3.90	ug/Kg
75-00-3	Chloroethane	0.98	U	0.98	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.94	U	0.94	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.82	U	0.82	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.77	U	0.77	3.90	ug/Kg
67-64-1	Acetone	12.0	J	3.70	19.4	ug/Kg
75-15-0	Carbon Disulfide	0.82	U	0.82	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.57	U	0.57	3.90	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.90	ug/Kg
75-09-2	Methylene Chloride	2.70	J	2.70	7.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.67	U	0.67	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
110-82-7	Cyclohexane	0.61	U	0.61	3.90	ug/Kg
78-93-3	2-Butanone	5.10	U	5.10	19.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.75	U	0.75	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.58	U	0.58	3.90	ug/Kg
74-97-5	Bromochloromethane	0.89	U	0.89	3.90	ug/Kg
67-66-3	Chloroform	0.65	U	0.65	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.72	U	0.72	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.70	U	0.70	3.90	ug/Kg
71-43-2	Benzene	0.61	U	0.61	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	3.90	ug/Kg
79-01-6	Trichloroethene	0.63	U	0.63	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.70	U	0.70	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.60	U	0.60	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	19.4	ug/Kg
108-88-3	Toluene	0.60	U	0.60	3.90	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-26	SDG No.:	Q2176
Lab Sample ID:	Q2176-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.2
Sample Wt/Vol:	7.58	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :	ID : 0.25		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022529.D	1		06/03/25 17:45	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.50	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.48	U	0.48	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.71	U	0.71	3.90	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	19.4	ug/Kg
124-48-1	Dibromochloromethane	0.67	U	0.67	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.68	U	0.68	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.81	U	0.81	3.90	ug/Kg
108-90-7	Chlorobenzene	0.70	U	0.70	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.52	U	0.52	3.90	ug/Kg
179601-23-1	m/p-Xylenes	0.96	U	0.96	7.70	ug/Kg
95-47-6	o-Xylene	0.63	U	0.63	3.90	ug/Kg
100-42-5	Styrene	0.55	U	0.55	3.90	ug/Kg
75-25-2	Bromoform	0.67	U	0.67	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.60	U	0.60	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.94	U	0.94	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	2.30	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.50	3.90	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.8	63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	46.7	70 - 134	93%	SPK: 50
2037-26-5	Toluene-d8	49.7	74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.1	17 - 146	86%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	245000	7.707
540-36-3	1,4-Difluorobenzene	450000	8.61
3114-55-4	Chlorobenzene-d5	365000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.34

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-26	SDG No.:	Q2176
Lab Sample ID:	Q2176-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.2
Sample Wt/Vol:	7.58 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
VY022529.D	1		06/03/25 17:45	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-67-8	1,3,5-Trimethylbenzene	1.30	J		12.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.86	J		13.0	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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-28	SDG No.:	Q2176
Lab Sample ID:	Q2176-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.5
Sample Wt/Vol:	5.85 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
VY022530.D	1		06/03/25 18:09	VY060325

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	0.94	U	0.94	4.70	ug/Kg
67-64-1	Acetone	4.50	U	4.50	23.6	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	9.40	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	23.6	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	0.76	U	0.76	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	23.6	ug/Kg
108-88-3	Toluene	0.74	U	0.74	4.70	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-28	SDG No.:	Q2176
Lab Sample ID:	Q2176-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.5
Sample Wt/Vol:	5.85 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
VY022530.D	1		06/03/25 18:09	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.61	U	0.61	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	23.6	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	9.40	ug/Kg
95-47-6	o-Xylene	0.77	U	0.77	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	45.7		63 - 155	91%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	49.9		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.8		17 - 146	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	288000	7.707			
540-36-3	1,4-Difluorobenzene	511000	8.609			
3114-55-4	Chlorobenzene-d5	401000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	142000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-28	SDG No.:	Q2176
Lab Sample ID:	Q2176-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.5
Sample Wt/Vol:	5.85	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 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
VY022530.D	1		06/03/25 18:09	VY060325

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-27	SDG No.:	Q2176
Lab Sample ID:	Q2176-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.1
Sample Wt/Vol:	6.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022531.D	1		06/03/25 18:32	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.73	U	0.73	4.60	ug/Kg
74-83-9	Bromomethane	0.99	U	0.99	4.60	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.98	U	0.98	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.93	U	0.93	4.60	ug/Kg
67-64-1	Acetone	4.40	U	4.40	23.2	ug/Kg
75-15-0	Carbon Disulfide	0.98	U	0.98	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.68	U	0.68	4.60	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.60	ug/Kg
75-09-2	Methylene Chloride	3.30	U	3.30	9.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.80	U	0.80	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.74	U	0.74	4.60	ug/Kg
110-82-7	Cyclohexane	0.73	U	0.73	4.60	ug/Kg
78-93-3	2-Butanone	6.10	U	6.10	23.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.90	U	0.90	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.70	U	0.70	4.60	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.60	ug/Kg
67-66-3	Chloroform	0.78	U	0.78	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.86	U	0.86	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.84	U	0.84	4.60	ug/Kg
71-43-2	Benzene	0.73	U	0.73	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.84	U	0.84	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.72	U	0.72	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	23.2	ug/Kg
108-88-3	Toluene	0.72	U	0.72	4.60	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-27	SDG No.:	Q2176
Lab Sample ID:	Q2176-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.1
Sample Wt/Vol:	6.48 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022531.D	1		06/03/25 18:32	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.85	U	0.85	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	23.2	ug/Kg
124-48-1	Dibromochloromethane	0.81	U	0.81	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.82	U	0.82	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.97	U	0.97	4.60	ug/Kg
108-90-7	Chlorobenzene	0.84	U	0.84	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.30	ug/Kg
95-47-6	o-Xylene	0.76	U	0.76	4.60	ug/Kg
100-42-5	Styrene	0.66	U	0.66	4.60	ug/Kg
75-25-2	Bromoform	0.80	U	0.80	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.72	U	0.72	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	49.8		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.1		17 - 146	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	245000	7.707			
540-36-3	1,4-Difluorobenzene	454000	8.609			
3114-55-4	Chlorobenzene-d5	362000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-27	SDG No.:	Q2176
Lab Sample ID:	Q2176-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.1
Sample Wt/Vol:	6.48	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022531.D	1		06/03/25 18:32	VY060325

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-31	SDG No.:	Q2176
Lab Sample ID:	Q2176-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	5.5 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
VY022532.D	1		06/03/25 18:56	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.20	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.20	ug/Kg
75-01-4	Vinyl Chloride	0.83	U	0.83	5.20	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.20	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.20	ug/Kg
67-64-1	Acetone	5.00	U	5.00	26.2	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.76	U	0.76	5.20	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.20	ug/Kg
75-09-2	Methylene Chloride	4.60	J	3.70	10.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.90	U	0.90	5.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.84	U	0.84	5.20	ug/Kg
110-82-7	Cyclohexane	0.83	U	0.83	5.20	ug/Kg
78-93-3	2-Butanone	6.80	U	6.80	26.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.79	U	0.79	5.20	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.20	ug/Kg
67-66-3	Chloroform	0.88	U	0.88	5.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.97	U	0.97	5.20	ug/Kg
108-87-2	Methylcyclohexane	0.95	U	0.95	5.20	ug/Kg
71-43-2	Benzene	0.83	U	0.83	5.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.83	U	0.83	5.20	ug/Kg
79-01-6	Trichloroethene	0.85	U	0.85	5.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.95	U	0.95	5.20	ug/Kg
75-27-4	Bromodichloromethane	0.82	U	0.82	5.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.70	U	3.70	26.2	ug/Kg
108-88-3	Toluene	0.82	U	0.82	5.20	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-31	SDG No.:	Q2176
Lab Sample ID:	Q2176-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	5.5 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
VY022532.D	1		06/03/25 18:56	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.68	U	0.68	5.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.65	U	0.65	5.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.96	U	0.96	5.20	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.2	ug/Kg
124-48-1	Dibromochloromethane	0.91	U	0.91	5.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.92	U	0.92	5.20	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.20	ug/Kg
108-90-7	Chlorobenzene	0.95	U	0.95	5.20	ug/Kg
100-41-4	Ethyl Benzene	0.70	U	0.70	5.20	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.5	ug/Kg
95-47-6	o-Xylene	0.86	U	0.86	5.20	ug/Kg
100-42-5	Styrene	0.74	U	0.74	5.20	ug/Kg
75-25-2	Bromoform	0.90	U	0.90	5.20	ug/Kg
98-82-8	Isopropylbenzene	0.82	U	0.82	5.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1.90	5.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.10	U	3.10	5.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.30	U	3.30	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.0		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.7		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.4		17 - 146	83%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	243000	7.707			
540-36-3	1,4-Difluorobenzene	462000	8.609			
3114-55-4	Chlorobenzene-d5	369000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-31	SDG No.:	Q2176
Lab Sample ID:	Q2176-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	5.5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022532.D	1		06/03/25 18:56	VY060325

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/30/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-65	SDG No.:	Q2176
Lab Sample ID:	Q2176-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.3
Sample Wt/Vol:	6.47 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
VY022533.D	1		06/03/25 19:19	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.40	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.40	ug/Kg
75-01-4	Vinyl Chloride	0.70	U	0.70	4.40	ug/Kg
74-83-9	Bromomethane	0.95	U	0.95	4.40	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.94	U	0.94	4.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.89	U	0.89	4.40	ug/Kg
67-64-1	Acetone	4.20	U	4.20	22.1	ug/Kg
75-15-0	Carbon Disulfide	0.94	U	0.94	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.65	U	0.65	4.40	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.40	ug/Kg
75-09-2	Methylene Chloride	3.10	U	3.10	8.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.76	U	0.76	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.71	U	0.71	4.40	ug/Kg
110-82-7	Cyclohexane	0.70	U	0.70	4.40	ug/Kg
78-93-3	2-Butanone	5.80	U	5.80	22.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.86	U	0.86	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.66	U	0.66	4.40	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.40	ug/Kg
67-66-3	Chloroform	0.74	U	0.74	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.82	U	0.82	4.40	ug/Kg
108-87-2	Methylcyclohexane	0.81	U	0.81	4.40	ug/Kg
71-43-2	Benzene	0.70	U	0.70	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.70	U	0.70	4.40	ug/Kg
79-01-6	Trichloroethene	0.72	U	0.72	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.81	U	0.81	4.40	ug/Kg
75-27-4	Bromodichloromethane	0.69	U	0.69	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	22.1	ug/Kg
108-88-3	Toluene	0.69	U	0.69	4.40	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/30/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-65	SDG No.:	Q2176
Lab Sample ID:	Q2176-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.3
Sample Wt/Vol:	6.47 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
VY022533.D	1		06/03/25 19:19	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.58	U	0.58	4.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.55	U	0.55	4.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.81	U	0.81	4.40	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.1	ug/Kg
124-48-1	Dibromochloromethane	0.77	U	0.77	4.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.78	U	0.78	4.40	ug/Kg
127-18-4	Tetrachloroethene	0.93	U	0.93	4.40	ug/Kg
108-90-7	Chlorobenzene	0.81	U	0.81	4.40	ug/Kg
100-41-4	Ethyl Benzene	0.59	U	0.59	4.40	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.90	ug/Kg
95-47-6	o-Xylene	0.73	U	0.73	4.40	ug/Kg
100-42-5	Styrene	0.63	U	0.63	4.40	ug/Kg
75-25-2	Bromoform	0.76	U	0.76	4.40	ug/Kg
98-82-8	Isopropylbenzene	0.69	U	0.69	4.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.80	U	2.80	4.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.4		63 - 155	89%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	49.6		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.2		17 - 146	76%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	269000	7.707			
540-36-3	1,4-Difluorobenzene	485000	8.609			
3114-55-4	Chlorobenzene-d5	369000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/30/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	TP-65	SDG No.:	Q2176
Lab Sample ID:	Q2176-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.3
Sample Wt/Vol:	6.47	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022533.D	1		06/03/25 19:19	VY060325

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

Surrogate Summary

SDG No.: Q2176

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2176-01	TP-46	1,2-Dichloroethane-d4	50	51.8	104	63	155
		Dibromofluoromethane	50	50.1	100	70	134
		Toluene-d8	50	49.5	99	74	123
		4-Bromofluorobenzene	50	43.1	86	17	146
Q2176-02	TP-56	1,2-Dichloroethane-d4	50	49.5	99	63	155
		Dibromofluoromethane	50	50.7	101	70	134
		Toluene-d8	50	49.2	98	74	123
		4-Bromofluorobenzene	50	40.3	81	17	146
Q2176-03	TP-25	1,2-Dichloroethane-d4	50	43.9	88	63	155
		Dibromofluoromethane	50	48.1	96	70	134
		Toluene-d8	50	49.4	99	74	123
		4-Bromofluorobenzene	50	39.2	78	17	146
Q2176-04	TP-26	1,2-Dichloroethane-d4	50	49.8	100	63	155
		Dibromofluoromethane	50	46.7	93	70	134
		Toluene-d8	50	49.7	99	74	123
		4-Bromofluorobenzene	50	43.1	86	17	146
Q2176-05	TP-28	1,2-Dichloroethane-d4	50	45.8	91	63	155
		Dibromofluoromethane	50	48.8	98	70	134
		Toluene-d8	50	49.9	100	74	123
		4-Bromofluorobenzene	50	40.8	82	17	146
Q2176-06	TP-27	1,2-Dichloroethane-d4	50	50.3	101	63	155
		Dibromofluoromethane	50	50.6	101	70	134
		Toluene-d8	50	49.8	100	74	123
		4-Bromofluorobenzene	50	42.1	84	17	146
Q2176-07	TP-31	1,2-Dichloroethane-d4	50	52.0	104	63	155
		Dibromofluoromethane	50	50.9	102	70	134
		Toluene-d8	50	49.7	99	74	123
		4-Bromofluorobenzene	50	41.4	83	17	146
Q2176-08	TP-65	1,2-Dichloroethane-d4	50	44.4	89	63	155
		Dibromofluoromethane	50	47.9	96	70	134
		Toluene-d8	50	49.6	99	74	123
		4-Bromofluorobenzene	50	38.2	76	17	146
VY0603SBL01	VY0603SBL01	1,2-Dichloroethane-d4	50	53.5	107	63	155
		Dibromofluoromethane	50	50.9	102	70	134
		Toluene-d8	50	49.9	100	74	123
		4-Bromofluorobenzene	50	42.0	84	17	146
VY0603SBS01	VY0603SBS01	1,2-Dichloroethane-d4	50	50.0	100	63	155
		Dibromofluoromethane	50	51.0	102	70	134
		Toluene-d8	50	51.5	103	74	123
		4-Bromofluorobenzene	50	49.0	98	17	146
VY0603SBSD01	VY0603SBSD01	1,2-Dichloroethane-d4	50	50.7	101	63	155
		Dibromofluoromethane	50	51.5	103	70	134
		Toluene-d8	50	52.6	105	74	123
		4-Bromofluorobenzene	50	50.1	100	17	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2176

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022513.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0603SBS01	Dichlorodifluoromethane	20	22.1	ug/Kg	111			64	136	
	Chloromethane	20	18.4	ug/Kg	92			52	151	
	Vinyl chloride	20	20.8	ug/Kg	104			56	148	
	Bromomethane	20	20.2	ug/Kg	101			58	141	
	Chloroethane	20	21.3	ug/Kg	106			69	130	
	Trichlorofluoromethane	20	22.2	ug/Kg	111			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.2	ug/Kg	106			81	123	
	1,1-Dichloroethene	20	21.2	ug/Kg	106			79	121	
	Acetone	100	140	ug/Kg	140			40	171	
	Carbon disulfide	20	20.8	ug/Kg	104			59	130	
	Methyl tert-butyl Ether	20	20.3	ug/Kg	102			77	129	
	Methyl Acetate	20	20.6	ug/Kg	103			69	149	
	Methylene Chloride	20	18.5	ug/Kg	93			72	131	
	trans-1,2-Dichloroethene	20	20.6	ug/Kg	103			80	123	
	1,1-Dichloroethane	20	21.2	ug/Kg	106			82	123	
	Cyclohexane	20	20.2	ug/Kg	101			76	122	
	2-Butanone	100	120	ug/Kg	120			69	131	
	Carbon Tetrachloride	20	20.2	ug/Kg	101			76	129	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			82	123	
	Bromochloromethane	20	21.3	ug/Kg	106			80	127	
	Chloroform	20	21.1	ug/Kg	106			82	125	
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106			80	126	
	Methylcyclohexane	20	19.8	ug/Kg	99			77	123	
	Benzene	20	20.7	ug/Kg	104			84	121	
	1,2-Dichloroethane	20	20.4	ug/Kg	102			81	126	
	Trichloroethene	20	21.3	ug/Kg	106			83	122	
	1,2-Dichloropropane	20	20.9	ug/Kg	104			83	122	
	Bromodichloromethane	20	20.8	ug/Kg	104			82	123	
	4-Methyl-2-Pentanone	100	96.0	ug/Kg	96			70	135	
	Toluene	20	20.1	ug/Kg	101			83	122	
	t-1,3-Dichloropropene	20	19.7	ug/Kg	99			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	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	19.8	ug/Kg	99			79	125	
	1,2-Dibromoethane	20	20.1	ug/Kg	101			80	125	
	Tetrachloroethene	20	21.2	ug/Kg	106			83	125	
	Chlorobenzene	20	20.3	ug/Kg	102			84	122	
	Ethyl Benzene	20	20.3	ug/Kg	102			82	124	
	m/p-Xylenes	40	40.2	ug/Kg	101			83	124	
	o-Xylene	20	20.0	ug/Kg	100			83	123	
	Styrene	20	19.9	ug/Kg	100			82	124	
	Bromoform	20	18.6	ug/Kg	93			75	127	
	Isopropylbenzene	20	20.1	ug/Kg	101			82	124	
	1,1,2,2-Tetrachloroethane	20	18.6	ug/Kg	93			77	127	
	1,3-Dichlorobenzene	20	19.4	ug/Kg	97			83	122	
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2176

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022513.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0603SBS01	1,2-Dibromo-3-Chloropropane	20	18.9	ug/Kg	95			66	134	
	1,2,4-Trichlorobenzene	20	18.8	ug/Kg	94			78	127	
	1,2,3-Trichlorobenzene	20	19.4	ug/Kg	97			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2176

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022514.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0603SBSD01	Dichlorodifluoromethane	20	22.4	ug/Kg	112	1		64	136	20
	Chloromethane	20	22.2	ug/Kg	111	19		52	151	20
	Vinyl chloride	20	22.2	ug/Kg	111	7		56	148	20
	Bromomethane	20	21.2	ug/Kg	106	5		58	141	20
	Chloroethane	20	21.6	ug/Kg	108	2		69	130	20
	Trichlorofluoromethane	20	21.2	ug/Kg	106	5		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/Kg	101	5		81	123	20
	1,1-Dichloroethene	20	21.7	ug/Kg	109	3		79	121	20
	Acetone	100	120	ug/Kg	120	15		40	171	20
	Carbon disulfide	20	21.3	ug/Kg	106	2		59	130	20
	Methyl tert-butyl Ether	20	20.5	ug/Kg	103	1		77	129	20
	Methyl Acetate	20	19.5	ug/Kg	98	5		69	149	20
	Methylene Chloride	20	19.3	ug/Kg	97	4		72	131	20
	trans-1,2-Dichloroethene	20	20.9	ug/Kg	104	1		80	123	20
	1,1-Dichloroethane	20	21.1	ug/Kg	106	0		82	123	20
	Cyclohexane	20	19.7	ug/Kg	99	2		76	122	20
	2-Butanone	100	110	ug/Kg	110	9		69	131	20
	Carbon Tetrachloride	20	20.9	ug/Kg	104	3		76	129	20
	cis-1,2-Dichloroethene	20	21.4	ug/Kg	107	4		82	123	20
	Bromochloromethane	20	20.8	ug/Kg	104	2		80	127	20
	Chloroform	20	21.6	ug/Kg	108	2		82	125	20
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106	0		80	126	20
	Methylcyclohexane	20	20.3	ug/Kg	102	3		77	123	20
	Benzene	20	21.0	ug/Kg	105	1		84	121	20
	1,2-Dichloroethane	20	21.0	ug/Kg	105	3		81	126	20
	Trichloroethene	20	21.5	ug/Kg	108	2		83	122	20
	1,2-Dichloropropane	20	20.7	ug/Kg	104	0		83	122	20
	Bromodichloromethane	20	21.0	ug/Kg	105	1		82	123	20
	4-Methyl-2-Pentanone	100	96.9	ug/Kg	97	1		70	135	20
	Toluene	20	20.5	ug/Kg	103	2		83	122	20
	t-1,3-Dichloropropene	20	19.9	ug/Kg	100	1		78	124	20
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	0		81	122	20
	1,1,2-Trichloroethane	20	20.6	ug/Kg	103	2		82	125	20
	2-Hexanone	100	98.4	ug/Kg	98	12		66	138	20
	Dibromochloromethane	20	20.2	ug/Kg	101	2		79	125	20
	1,2-Dibromoethane	20	20.0	ug/Kg	100	1		80	125	20
	Tetrachloroethene	20	21.3	ug/Kg	106	0		83	125	20
	Chlorobenzene	20	21.1	ug/Kg	106	4		84	122	20
	Ethyl Benzene	20	20.8	ug/Kg	104	2		82	124	20
	m/p-Xylenes	40	41.3	ug/Kg	103	2		83	124	20
	o-Xylene	20	20.7	ug/Kg	104	4		83	123	20
	Styrene	20	20.6	ug/Kg	103	3		82	124	20
	Bromoform	20	19.9	ug/Kg	100	7		75	127	20
	Isopropylbenzene	20	21.1	ug/Kg	106	5		82	124	20
	1,1,2,2-Tetrachloroethane	20	20.0	ug/Kg	100	7		77	127	20
	1,3-Dichlorobenzene	20	20.5	ug/Kg	103	6		83	122	20
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104	4		84	121	20
	1,2-Dichlorobenzene	20	20.9	ug/Kg	104	5		83	124	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2176

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022514.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0603SBSD01	1,2-Dibromo-3-Chloropropane	20	19.4	ug/Kg	97	2		66	134	20
	1,2,4-Trichlorobenzene	20	20.9	ug/Kg	104	10		78	127	20
	1,2,3-Trichlorobenzene	20	20.3	ug/Kg	102	5		70	137	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0603SBL01

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2176

SAS No.: Q2176 SDG NO.: Q2176

Lab File ID: VY022512.D

Lab Sample ID: VY0603SBL01

Date Analyzed: 06/03/2025

Time Analyzed: 10:40

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0603SBS01	VY0603SBS01	VY022513.D	06/03/2025
VY0603SBSD01	VY0603SBSD01	VY022514.D	06/03/2025
TP-46	Q2176-01	VY022526.D	06/03/2025
TP-56	Q2176-02	VY022527.D	06/03/2025
TP-25	Q2176-03	VY022528.D	06/03/2025
TP-26	Q2176-04	VY022529.D	06/03/2025
TP-28	Q2176-05	VY022530.D	06/03/2025
TP-27	Q2176-06	VY022531.D	06/03/2025
TP-31	Q2176-07	VY022532.D	06/03/2025
TP-65	Q2176-08	VY022533.D	06/03/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2176 SAS No.: Q2176 SDG NO.: Q2176
Lab File ID: VY022488.D BFB Injection Date: 06/02/2025
Instrument ID: MSVOA_Y BFB Injection Time: 08:31
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	25.6
75	30.0 - 60.0% of mass 95	58.9
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	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	86.2
175	5.0 - 9.0% of mass 174	6.6 (7.6) 1
176	95.0 - 101.0% of mass 174	82.5 (95.6) 1
177	5.0 - 9.0% of mass 176	5.4 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY022491.D	06/02/2025	11:46
VSTDIC010	VSTDIC010	VY022492.D	06/02/2025	12:09
VSTDIC020	VSTDIC020	VY022493.D	06/02/2025	12:32
VSTDIC050	VSTDIC050	VY022494.D	06/02/2025	12:54
VSTDIC100	VSTDIC100	VY022495.D	06/02/2025	13:17
VSTDIC150	VSTDIC150	VY022496.D	06/02/2025	13:39

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2176 SAS No.: Q2176 SDG NO.: Q2176
Lab File ID: VY022510.D BFB Injection Date: 06/03/2025
Instrument ID: MSVOA_Y BFB Injection Time: 09:03
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	26
75	30.0 - 60.0% of mass 95	59.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.1 (1.4) 1
174	50.0 - 100.0% of mass 95	82.6
175	5.0 - 9.0% of mass 174	6.2 (7.6) 1
176	95.0 - 101.0% of mass 174	79.5 (96.3) 1
177	5.0 - 9.0% of mass 176	5 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022511.D	06/03/2025	10:03
VY0603SBL01	VY0603SBL01	VY022512.D	06/03/2025	10:40
VY0603SBS01	VY0603SBS01	VY022513.D	06/03/2025	11:15
VY0603SBSD01	VY0603SBSD01	VY022514.D	06/03/2025	11:38
TP-46	Q2176-01	VY022526.D	06/03/2025	16:35
TP-56	Q2176-02	VY022527.D	06/03/2025	16:58
TP-25	Q2176-03	VY022528.D	06/03/2025	17:22
TP-26	Q2176-04	VY022529.D	06/03/2025	17:45
TP-28	Q2176-05	VY022530.D	06/03/2025	18:09
TP-27	Q2176-06	VY022531.D	06/03/2025	18:32
TP-31	Q2176-07	VY022532.D	06/03/2025	18:56
TP-65	Q2176-08	VY022533.D	06/03/2025	19:19

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2176 SAS No.: Q2176 SDG NO.: Q2176
Lab File ID: VY022511.D Date Analyzed: 06/03/2025
Instrument ID: MSVOA_Y Time Analyzed: 10:03
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	187797	7.71	325302	8.62	276655	11.42
UPPER LIMIT	375594	8.213	650604	9.115	553310	11.92
LOWER LIMIT	93898.5	7.213	162651	8.115	138328	10.92
EPA SAMPLE NO.						
TP-46	268876	7.71	504814	8.61	411331	11.41
TP-56	259331	7.71	475112	8.61	372480	11.41
TP-25	277698	7.71	501520	8.61	388135	11.41
TP-26	245298	7.71	450434	8.61	364784	11.41
TP-28	287774	7.71	510573	8.61	400841	11.41
TP-27	244909	7.71	453751	8.61	362219	11.41
TP-31	242608	7.71	461777	8.61	369180	11.41
TP-65	268630	7.71	484998	8.61	368793	11.41
VY0603SBL01	287398	7.71	534399	8.62	428748	11.42
VY0603SBS01	197612	7.71	337632	8.62	284268	11.42
VY0603SBSD01	196295	7.71	333757	8.62	277257	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2176 SAS No.: Q2176 SDG NO.: Q2176
 Lab File ID: VY022511.D Date Analyzed: 06/03/2025
 Instrument ID: MSVOA_Y Time Analyzed: 10:03
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	130385	13.346				
UPPER LIMIT	260770	13.846				
LOWER LIMIT	65192.5	12.846				
EPA SAMPLE NO.						
TP-46	154553	13.35				
TP-56	129377	13.35				
TP-25	133596	13.35				
TP-26	132285	13.34				
TP-28	141621	13.35				
TP-27	131513	13.35				
TP-31	131849	13.35				
TP-65	123634	13.35				
VY0603SBL01	155262	13.35				
VY0603SBS01	131961	13.35				
VY0603SBSD01	127082	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

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

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VY0603SBL01		SDG No.:	Q2176
Lab Sample ID:	VY0603SBL01		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
VY022512.D	1		06/03/25 10:40	VY060325

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	53.5		63 - 155	107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.9		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.0		17 - 146	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	287000	7.713			
540-36-3	1,4-Difluorobenzene	534000	8.616			
3114-55-4	Chlorobenzene-d5	429000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	155000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0603SBL01	SDG No.:	Q2176
Lab Sample ID:	VY0603SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022512.D	1		06/03/25 10:40	VY060325

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0603SBS01	SDG No.:	Q2176
Lab Sample ID:	VY0603SBS01	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
VY022513.D	1		06/03/25 11:15	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.1		1.10	5.00	ug/Kg
74-87-3	Chloromethane	18.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.8		0.79	5.00	ug/Kg
74-83-9	Bromomethane	20.2		1.10	5.00	ug/Kg
75-00-3	Chloroethane	21.3		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	21.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.2		1.00	5.00	ug/Kg
67-64-1	Acetone	140		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.8		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.3		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.6		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	18.5		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.2		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.2		0.79	5.00	ug/Kg
78-93-3	2-Butanone	120		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.2		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.1		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.8		0.91	5.00	ug/Kg
71-43-2	Benzene	20.7		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	21.3		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.9		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	96.0		3.60	25.0	ug/Kg
108-88-3	Toluene	20.1		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VY0603SBS01		SDG No.:	Q2176
Lab Sample ID:	VY0603SBS01		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
VY022513.D	1		06/03/25 11:15	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.7		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.6		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	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.1		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.2		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.3		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.3		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.2		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.0		0.82	5.00	ug/Kg
100-42-5	Styrene	19.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.6		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.1		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.6		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.4		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	19.8		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.8		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	50.0		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	51.5		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		17 - 146	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	198000	7.707			
540-36-3	1,4-Difluorobenzene	338000	8.615			
3114-55-4	Chlorobenzene-d5	284000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0603SBS01	SDG No.:	Q2176
Lab Sample ID:	VY0603SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022513.D	1		06/03/25 11:15	VY060325

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0603SBSD01	SDG No.:	Q2176
Lab Sample ID:	VY0603SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
	ID :	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022514.D	1		06/03/25 11:38	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.4		1.10	5.00	ug/Kg
74-87-3	Chloromethane	22.2		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	22.2		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.2		1.10	5.00	ug/Kg
75-00-3	Chloroethane	21.6		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.2		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.7		1.00	5.00	ug/Kg
67-64-1	Acetone	120		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.5		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	19.5		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.3		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.9		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.1		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	19.7		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.9		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.4		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.8		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.6		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.3		0.91	5.00	ug/Kg
71-43-2	Benzene	21.0		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.0		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	21.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.0		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	96.9		3.60	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VY0603SBSD01	SDG No.:	Q2176	
Lab Sample ID:	VY0603SBSD01	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
VY022514.D	1		06/03/25 11:38	VY060325

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	20.5		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	98.4		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.2		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.3		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.8		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.3		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.7		0.82	5.00	ug/Kg
100-42-5	Styrene	20.6		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.9		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.1		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.0		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.5		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.7		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.9		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.4		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.9		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.3		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.7		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	52.6		74 - 123	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		17 - 146	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	196000	7.707			
540-36-3	1,4-Difluorobenzene	334000	8.616			
3114-55-4	Chlorobenzene-d5	277000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0603SBSD01	SDG No.:	Q2176
Lab Sample ID:	VY0603SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022514.D	1		06/03/25 11:38	VY060325

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2176 SAS No.: Q2176 SDG No.: Q2176

Instrument ID: MSVOA_Y Calibration Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Calibration Time(s): 11:46 13:39

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

LAB FILE ID:		RRF005 = VY022491.D		RRF010 = VY022492.D		RRF020 = VY022493.D		RRF050 = VY022494.D		RRF100 = VY022495.D		RRF150 = VY022496.D	
COMPOUND		RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD				
Dichlorodifluoromethane		0.433	0.542	0.495	0.413	0.397	0.405	0.448	13				
Chloromethane		1.320	1.590	1.431	1.230	1.178	1.185	1.322	12.3				
Vinyl Chloride		1.371	1.814	1.647	1.497	1.444	1.432	1.534	10.8				
Bromomethane		1.365	1.735	1.705	1.240	1.341	1.436	1.470	13.8				
Chloroethane		0.973	1.278	1.198	0.965	0.941	0.964	1.053	13.8				
Trichlorofluoromethane		1.135	1.492	1.430	1.224	1.223	1.310	1.302	10.5				
1,1,2-Trichlorotrifluoroethane		0.510	0.615	0.572	0.538	0.522	0.534	0.549	7.1				
1,1-Dichloroethene		0.469	0.577	0.549	0.518	0.510	0.523	0.524	7				
Acetone		0.130	0.119	0.120	0.116	0.105	0.092	0.114	11.6				
Carbon Disulfide		1.503	1.870	1.731	1.664	1.638	1.666	1.679	7.2				
Methyl tert-butyl Ether		1.307	1.618	1.571	1.470	1.435	1.462	1.477	7.4				
Methyl Acetate		0.280	0.408	0.396	0.333	0.301	0.301	0.336	15.9				
Methylene Chloride		0.861	0.700	0.637	0.574	0.548	0.550	0.645	18.7				
trans-1,2-Dichloroethene		0.522	0.651	0.612	0.571	0.574	0.592	0.587	7.4				
1,1-Dichloroethane		0.968	1.193	1.124	1.060	1.051	1.080	1.079	7				
Cyclohexane		1.168	1.208	1.098	1.015	0.970	0.988	1.075	9.2				
2-Butanone		0.143	0.174	0.178	0.168	0.163	0.157	0.164	7.6				
Carbon Tetrachloride		0.415	0.516	0.497	0.508	0.508	0.537	0.497	8.5				
cis-1,2-Dichloroethene		0.592	0.731	0.706	0.682	0.668	0.691	0.678	7				
Bromochloromethane		0.470	0.477	0.479	0.454	0.469	0.474	0.471	1.9				
Chloroform		0.960	1.183	1.109	1.058	1.043	1.062	1.069	6.9				
1,1,1-Trichloroethane		0.819	1.029	0.970	0.948	0.951	0.977	0.949	7.4				
Methylcyclohexane		0.568	0.674	0.645	0.657	0.664	0.698	0.651	6.9				
Benzene		1.213	1.487	1.473	1.441	1.452	1.518	1.431	7.7				
1,2-Dichloroethane		0.320	0.424	0.413	0.390	0.395	0.401	0.391	9.4				
Trichloroethene		0.294	0.388	0.353	0.355	0.350	0.358	0.350	8.7				
1,2-Dichloropropane		0.274	0.364	0.354	0.344	0.344	0.349	0.338	9.6				
Bromodichloromethane		0.380	0.525	0.499	0.491	0.491	0.508	0.482	10.7				
4-Methyl-2-Pentanone		0.175	0.242	0.246	0.243	0.244	0.246	0.233	12.1				
Toluene		0.732	0.932	0.904	0.903	0.933	0.990	0.899	9.8				

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2176 SAS No.: Q2176 SDG No.: Q2176

Instrument ID: MSVOA_Y Calibration Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Calibration Time(s): 11:46 13:39

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

LAB FILE ID:								
RRF005 = VY022491.D			RRF010 = VY022492.D			RRF020 = VY022493.D		
RRF050 = VY022494.D			RRF100 = VY022495.D			RRF150 = VY022496.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.350	0.468	0.476	0.461	0.468	0.487	0.452	11.2
cis-1,3-Dichloropropene	0.423	0.549	0.545	0.537	0.544	0.558	0.526	9.7
1,1,2-Trichloroethane	0.207	0.257	0.258	0.242	0.243	0.249	0.243	7.7
2-Hexanone	0.120	0.158	0.166	0.162	0.165	0.162	0.156	11.3
Dibromochloromethane	0.248	0.320	0.325	0.314	0.319	0.323	0.308	9.6
1,2-Dibromoethane	0.174	0.236	0.239	0.223	0.225	0.230	0.221	10.9
Tetrachloroethene	0.375	0.474	0.448	0.437	0.416	0.432	0.430	7.7
Chlorobenzene	0.949	1.170	1.102	1.116	1.120	1.182	1.106	7.5
Ethyl Benzene	1.655	2.090	2.006	2.083	2.148	2.332	2.052	10.9
m/p-Xylenes	0.616	0.780	0.765	0.785	0.822	0.899	0.778	11.9
o-Xylene	0.583	0.749	0.721	0.734	0.764	0.826	0.729	11
Styrene	0.909	1.195	1.189	1.233	1.291	1.417	1.206	13.9
Bromoform	0.161	0.209	0.200	0.201	0.206	0.214	0.198	9.7
Isopropylbenzene	3.470	4.308	4.090	4.136	4.167	4.460	4.105	8.3
1,1,2,2-Tetrachloroethane	0.570	0.738	0.692	0.682	0.671	0.689	0.674	8.3
1,3-Dichlorobenzene	1.514	1.783	1.730	1.733	1.809	1.963	1.755	8.3
1,4-Dichlorobenzene	1.508	1.814	1.733	1.701	1.677	1.781	1.702	6.3
1,2-Dichlorobenzene	1.246	1.582	1.547	1.512	1.490	1.564	1.490	8.3
1,2-Dibromo-3-Chloropropane	0.074	0.110	0.103	0.105	0.098	0.099	0.098	12.7
1,2,4-Trichlorobenzene	0.667	0.863	0.812	0.817	0.851	0.865	0.813	9.2
1,2,3-Trichlorobenzene	0.622	0.721	0.712	0.699	0.710	0.714	0.697	5.3
1,2-Dichloroethane-d4	0.523	0.574	0.556	0.591	0.552	0.559	0.559	4.1
Dibromofluoromethane	0.264	0.283	0.301	0.321	0.307	0.315	0.298	7.2
Toluene-d8	1.067	1.181	1.158	1.279	1.253	1.298	1.206	7.2
4-Bromofluorobenzene	0.339	0.339	0.347	0.372	0.373	0.386	0.359	5.6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2176 SAS No.: Q2176 SDG No.: Q2176

Instrument ID: MSVOA_Y Calibration Date/Time: 06/03/2025 10:03

Lab File ID: VY022511.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.448	0.404		-9.82	20
Chloromethane	1.322	1.316	0.1	-0.45	20
Vinyl Chloride	1.534	1.560		1.7	20
Bromomethane	1.470	1.393		-5.24	20
Chloroethane	1.053	1.102		4.65	20
Trichlorofluoromethane	1.302	1.272		-2.3	20
1,1,2-Trichlorotrifluoroethane	0.549	0.523		-4.74	20
1,1-Dichloroethene	0.524	0.513		-2.1	20
Acetone	0.114	0.097		-14.91	20
Carbon Disulfide	1.679	1.680		0.06	20
Methyl tert-butyl Ether	1.477	1.494		1.15	20
Methyl Acetate	0.336	0.372		10.71	20
Methylene Chloride	0.645	0.579		-10.23	20
trans-1,2-Dichloroethene	0.587	0.598		1.87	20
1,1-Dichloroethane	1.079	1.105	0.1	2.41	20
Cyclohexane	1.075	0.985		-8.37	20
2-Butanone	0.164	0.160		-2.44	20
Carbon Tetrachloride	0.497	0.487		-2.01	20
cis-1,2-Dichloroethene	0.678	0.701		3.39	20
Bromochloromethane	0.471	0.559		18.68	20
Chloroform	1.069	1.105		3.37	20
1,1,1-Trichloroethane	0.949	0.968		2	20
Methylcyclohexane	0.651	0.616		-5.38	20
Benzene	1.431	1.436		0.35	20
1,2-Dichloroethane	0.391	0.395		1.02	20
Trichloroethene	0.350	0.343		-2	20
1,2-Dichloropropane	0.338	0.343		1.48	20
Bromodichloromethane	0.482	0.494		2.49	20
4-Methyl-2-Pentanone	0.233	0.236		1.29	20
Toluene	0.899	0.901		0.22	20
t-1,3-Dichloropropene	0.452	0.460		1.77	20
cis-1,3-Dichloropropene	0.526	0.531		0.95	20
1,1,2-Trichloroethane	0.243	0.243		0	20
2-Hexanone	0.156	0.155		-0.64	20
Dibromochloromethane	0.308	0.312		1.3	20
1,2-Dibromoethane	0.221	0.225		1.81	20
Tetrachloroethene	0.430	0.422		-1.86	20
Chlorobenzene	1.106	1.118	0.3	1.09	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2176 SAS No.: Q2176 SDG No.: Q2176

Instrument ID: MSVOA_Y Calibration Date/Time: 06/03/2025 10:03

Lab File ID: VY022511.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.052	2.059		0.34	20
m/p-Xylenes	0.778	0.765		-1.67	20
o-Xylene	0.729	0.713		-2.19	20
Styrene	1.206	1.220		1.16	20
Bromoform	0.198	0.195	0.1	-1.51	20
Isopropylbenzene	4.105	4.015		-2.19	20
1,1,2,2-Tetrachloroethane	0.674	0.669	0.3	-0.74	20
1,3-Dichlorobenzene	1.755	1.733		-1.25	20
1,4-Dichlorobenzene	1.702	1.659		-2.53	20
1,2-Dichlorobenzene	1.490	1.467		-1.54	20
1,2-Dibromo-3-Chloropropane	0.098	0.103		5.1	20
1,2,4-Trichlorobenzene	0.813	0.835		2.71	20
1,2,3-Trichlorobenzene	0.697	0.701		0.57	20
1,2-Dichloroethane-d4	0.559	0.576		3.04	20
Dibromofluoromethane	0.298	0.300		0.67	20
Toluene-d8	1.206	1.224		1.49	20
4-Bromofluorobenzene	0.359	0.354		-1.39	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\VY060325\
 Data File : VY022526.D
 Acq On : 03 Jun 2025 16:35
 Operator : SY/MD
 Sample : Q2176-01
 Misc : 7.12g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-46

A
B
C
D
E
F
G
H
I
J

Quant Time: Jun 04 04:15:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	268876	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	504814	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	411331	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	154553	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	155741	51.789	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	103.580%
35) Dibromofluoromethane	7.634	113	151120	50.154	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.300%
50) Toluene-d8	10.103	98	603269	49.550	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.100%
62) 4-Bromofluorobenzene	12.401	95	156250	43.073	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	86.140%

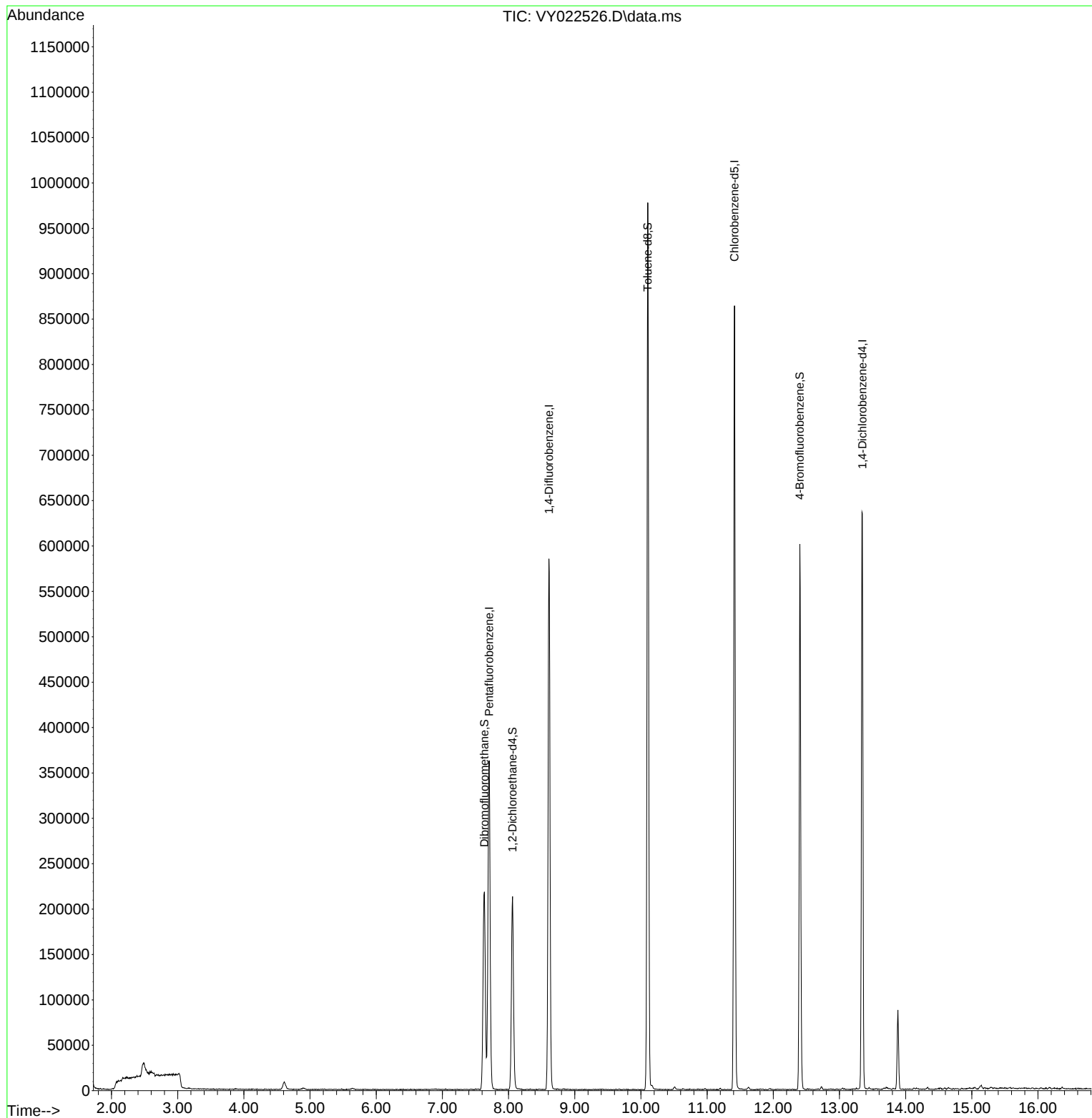
Target Compounds	Qvalue

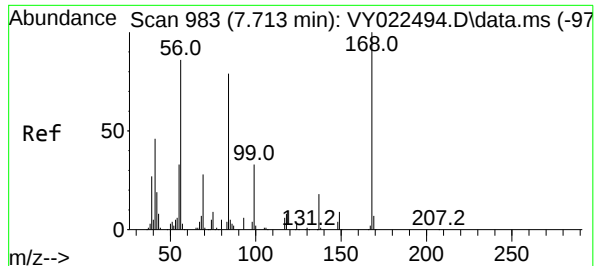
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022526.D
Acq On : 03 Jun 2025 16:35
Operator : SY/MD
Sample : Q2176-01
Misc : 7.12g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-46

Quant Time: Jun 04 04:15:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

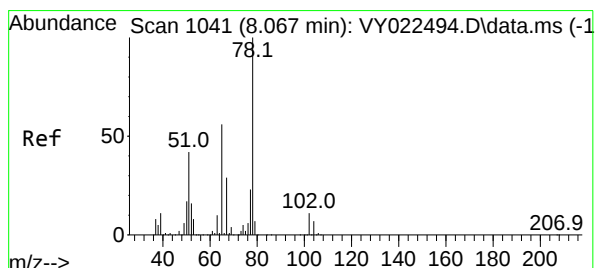
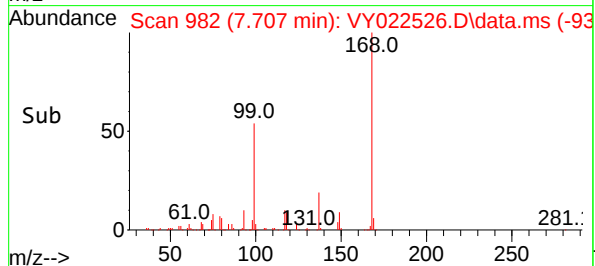
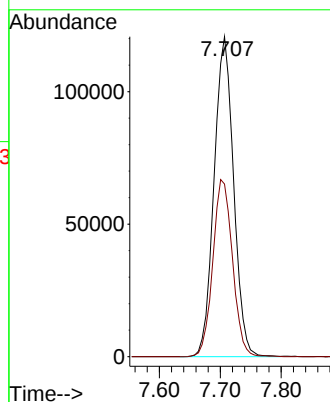
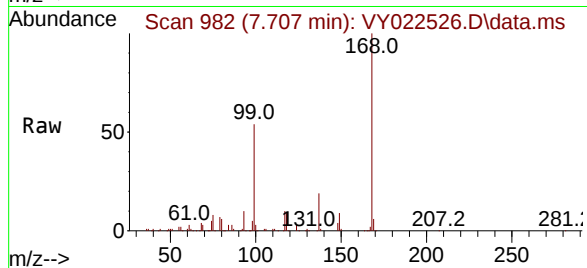




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022526.D
Acq: 03 Jun 2025 16:35

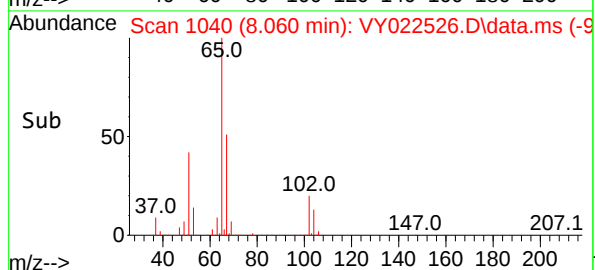
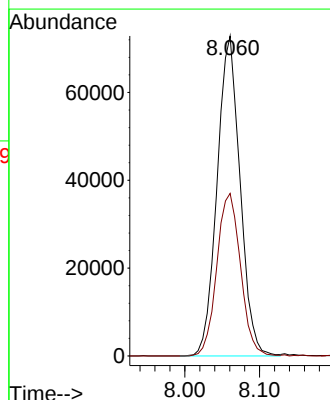
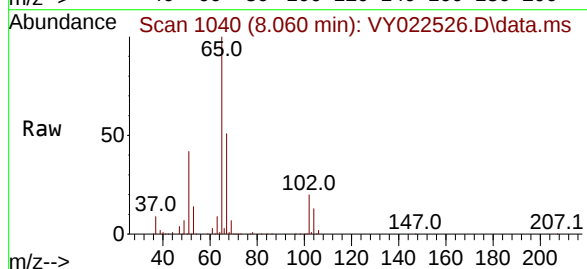
Instrument :
MSVOA_Y
ClientSampleId :
TP-46

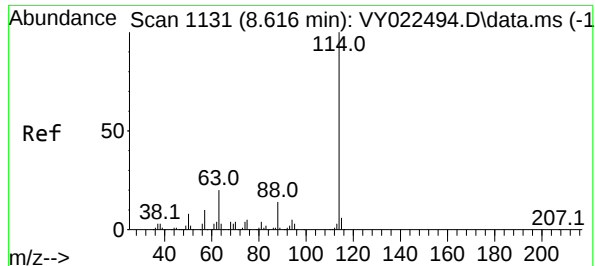
Tgt Ion:168 Resp: 268876
Ion Ratio Lower Upper
168 100
99 54.0 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 51.789 ug/l
RT: 8.060 min Scan# 1040
Delta R.T. -0.007 min
Lab File: VY022526.D
Acq: 03 Jun 2025 16:35

Tgt Ion: 65 Resp: 155741
Ion Ratio Lower Upper
65 100
67 52.5 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.007 min

Lab File: VY022526.D

Acq: 03 Jun 2025 16:35

Instrument :

MSVOA_Y

ClientSampleId :

TP-46

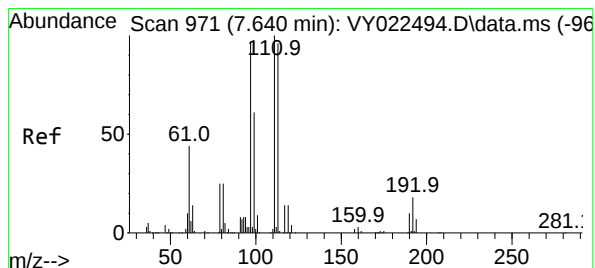
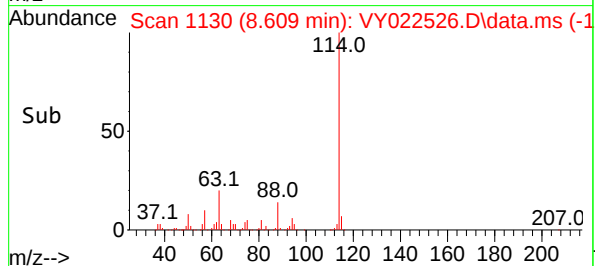
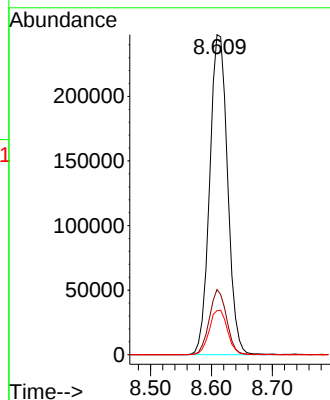
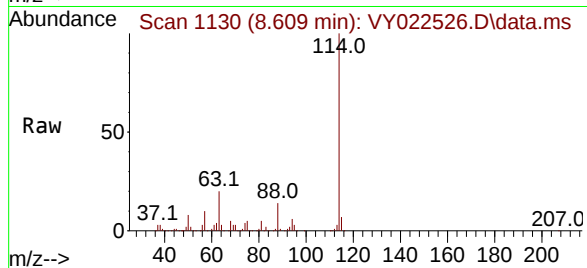
Tgt Ion:114 Resp: 504814

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

88 13.8 0.0 27.8



#35

Dibromofluoromethane

Concen: 50.154 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.007 min

Lab File: VY022526.D

Acq: 03 Jun 2025 16:35

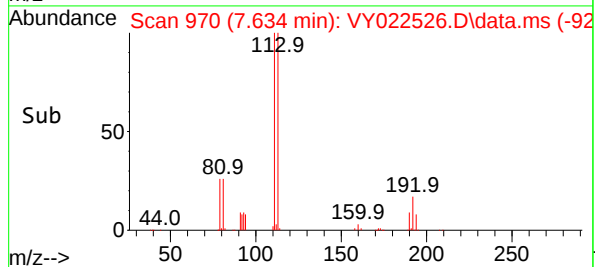
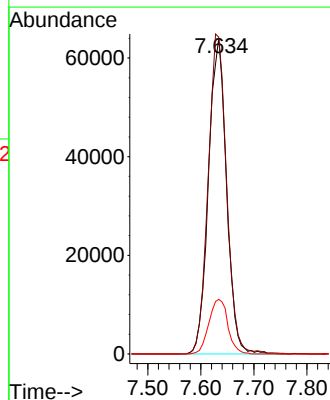
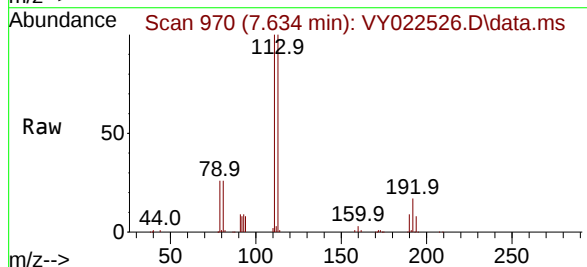
Tgt Ion:113 Resp: 151120

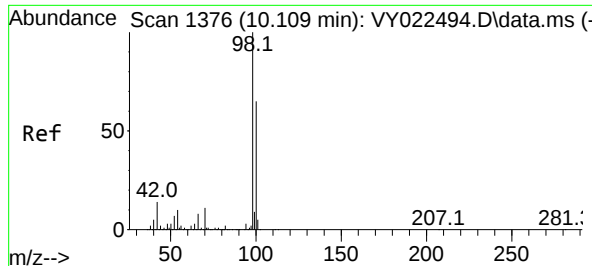
Ion Ratio Lower Upper

113 100

111 103.8 81.1 121.7

192 18.2 14.2 21.2





#50

Toluene-d8

Concen: 49.550 ug/l

RT: 10.103 min Scan# 11

Delta R.T. -0.007 min

Lab File: VY022526.D

Acq: 03 Jun 2025 16:35

Instrument :

MSVOA_Y

ClientSampleId :

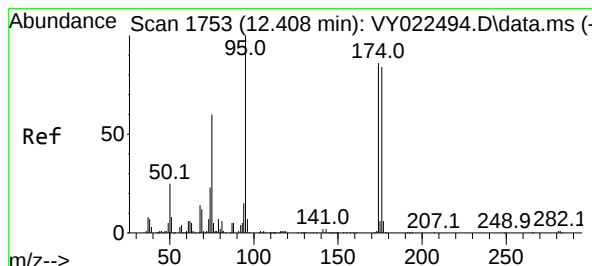
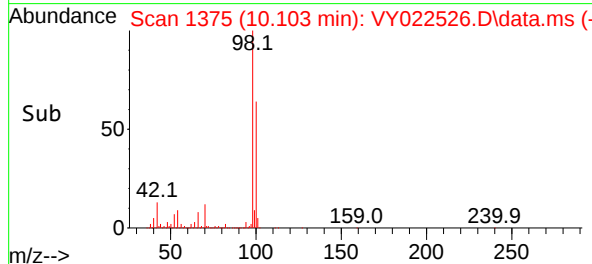
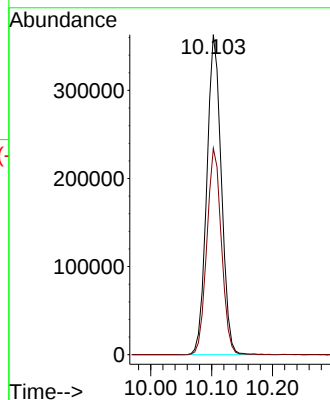
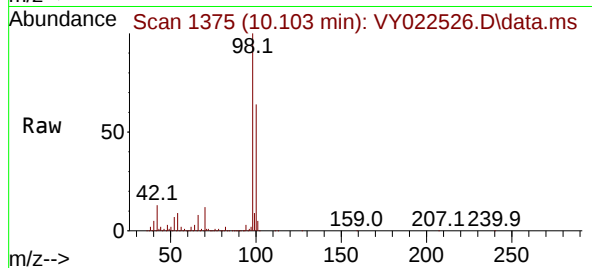
TP-46

Tgt Ion: 98 Resp: 603269

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 43.073 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.007 min

Lab File: VY022526.D

Acq: 03 Jun 2025 16:35

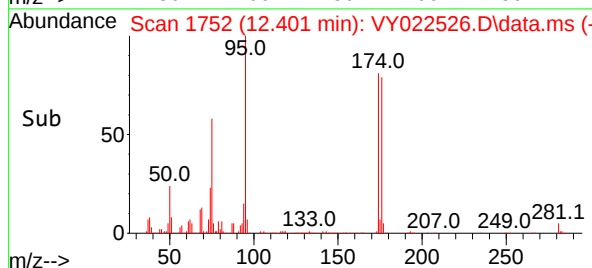
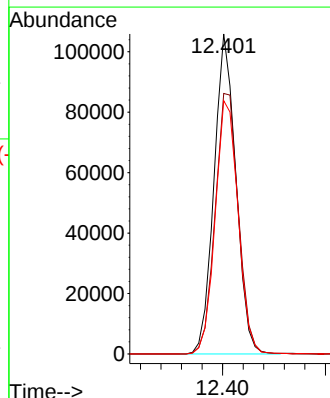
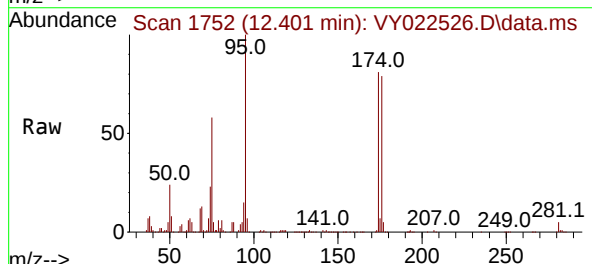
Tgt Ion: 95 Resp: 156250

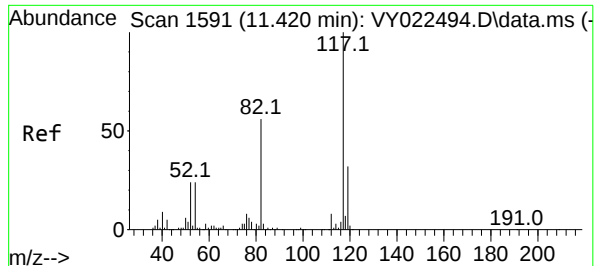
Ion Ratio Lower Upper

95 100

174 86.6 0.0 170.0

176 82.8 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.413 min Scan# 117

Delta R.T. -0.007 min

Lab File: VY022526.D

Acq: 03 Jun 2025 16:35

Instrument :

MSVOA_Y

ClientSampleId :

TP-46

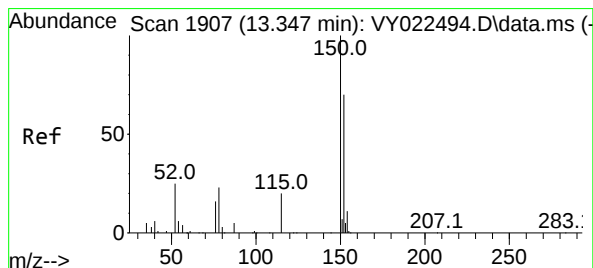
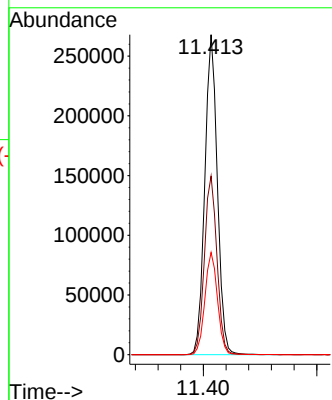
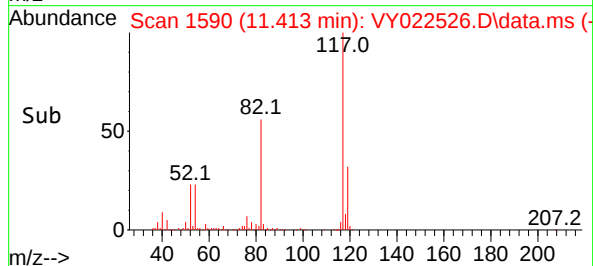
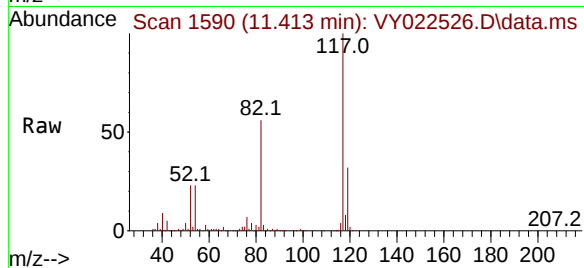
Tgt Ion:117 Resp: 411331

Ion Ratio Lower Upper

117 100

82 55.8 44.6 66.8

119 31.9 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.001 min

Lab File: VY022526.D

Acq: 03 Jun 2025 16:35

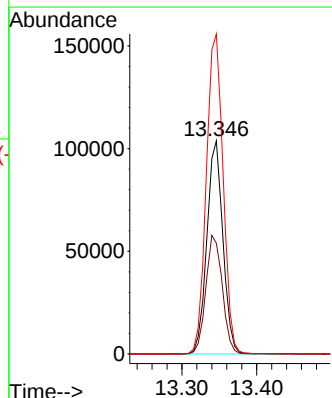
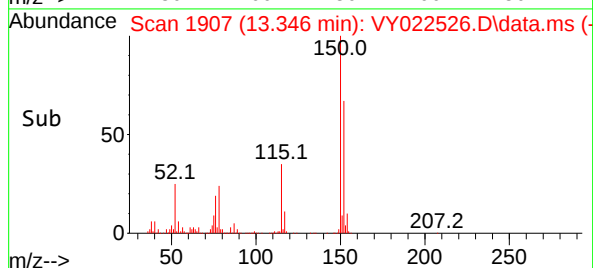
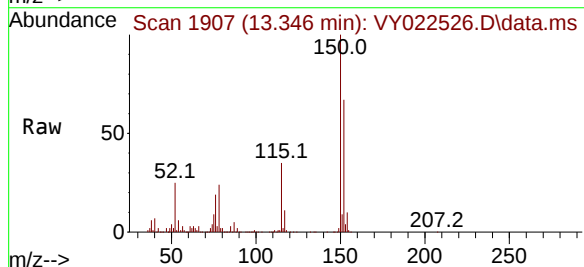
Tgt Ion:152 Resp: 154553

Ion Ratio Lower Upper

152 100

115 57.2 28.9 86.7

150 156.7 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022526.D
Acq On : 03 Jun 2025 16:35
Operator : SY/MD
Sample : Q2176-01
Misc : 7.12g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-46

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\82Y060225S.M

Title : SW846 8260

Signal : TIC: VY022526.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.482	118	125	126	rBV2	14742	29651	1.80%	0.364%
2	4.610	465	474	482	rBV3	8289	23848	1.45%	0.293%
3	7.634	959	970	975	rBV	217967	520062	31.61%	6.389%
4	7.707	975	982	992	rVB	361623	822553	50.00%	10.106%
5	8.060	1030	1040	1053	rBV	212998	470485	28.60%	5.780%
6	8.609	1120	1130	1144	rBV	584861	1186850	72.14%	14.582%
7	10.103	1366	1375	1384	rBV	977377	1645099	100.00%	20.212%
8	11.413	1582	1590	1602	rBV	863787	1347877	81.93%	16.560%
9	12.401	1745	1752	1764	rBV	600637	951611	57.85%	11.692%
10	13.340	1897	1906	1915	rBV	635531	1007276	61.23%	12.375%
11	13.883	1989	1995	2004	rVB	87431	134012	8.15%	1.646%

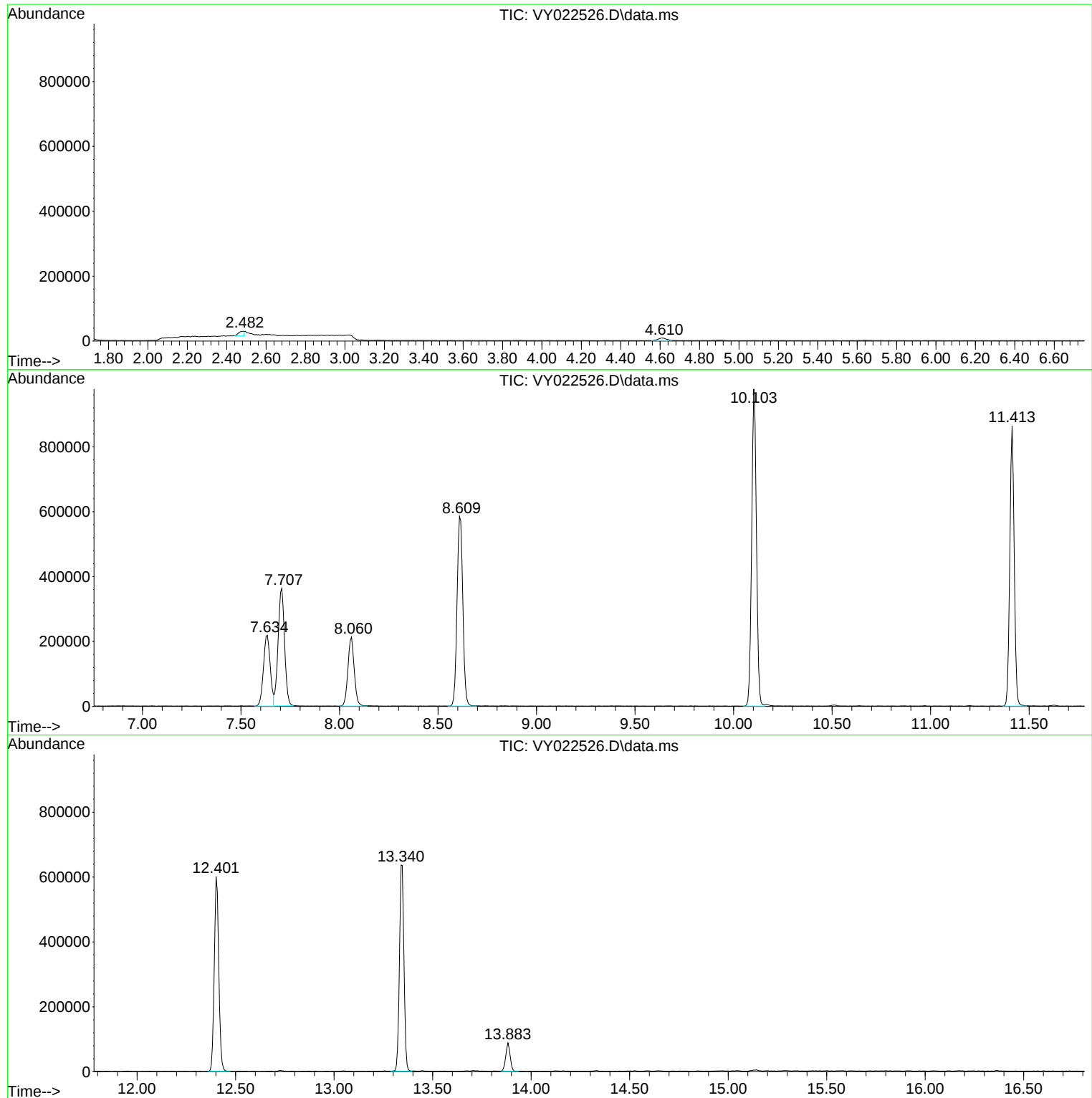
Sum of corrected areas: 8139324

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022526.D
Acq On : 03 Jun 2025 16:35
Operator : SY/MD
Sample : Q2176-01
Misc : 7.12g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-46

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022526.D
Acq On : 03 Jun 2025 16:35
Operator : SY/MD
Sample : Q2176-01
Misc : 7.12g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-46

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022526.D
Acq On : 03 Jun 2025 16:35
Operator : SY/MD
Sample : Q2176-01
Misc : 7.12g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-46

A

B

C

D

E

F

G

H

I

J

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.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--			
					#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022527.D
 Acq On : 03 Jun 2025 16:58
 Operator : SY/MD
 Sample : Q2176-02
 Misc : 5.90g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-56

Quant Time: Jun 04 04:15:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	259331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	475112	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	372480	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	129377	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	143439	49.454	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.900%
35) Dibromofluoromethane	7.634	113	143691	50.670	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.340%
50) Toluene-d8	10.103	98	564005	49.221	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.440%
62) 4-Bromofluorobenzene	12.402	95	137531	40.283	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	80.560%

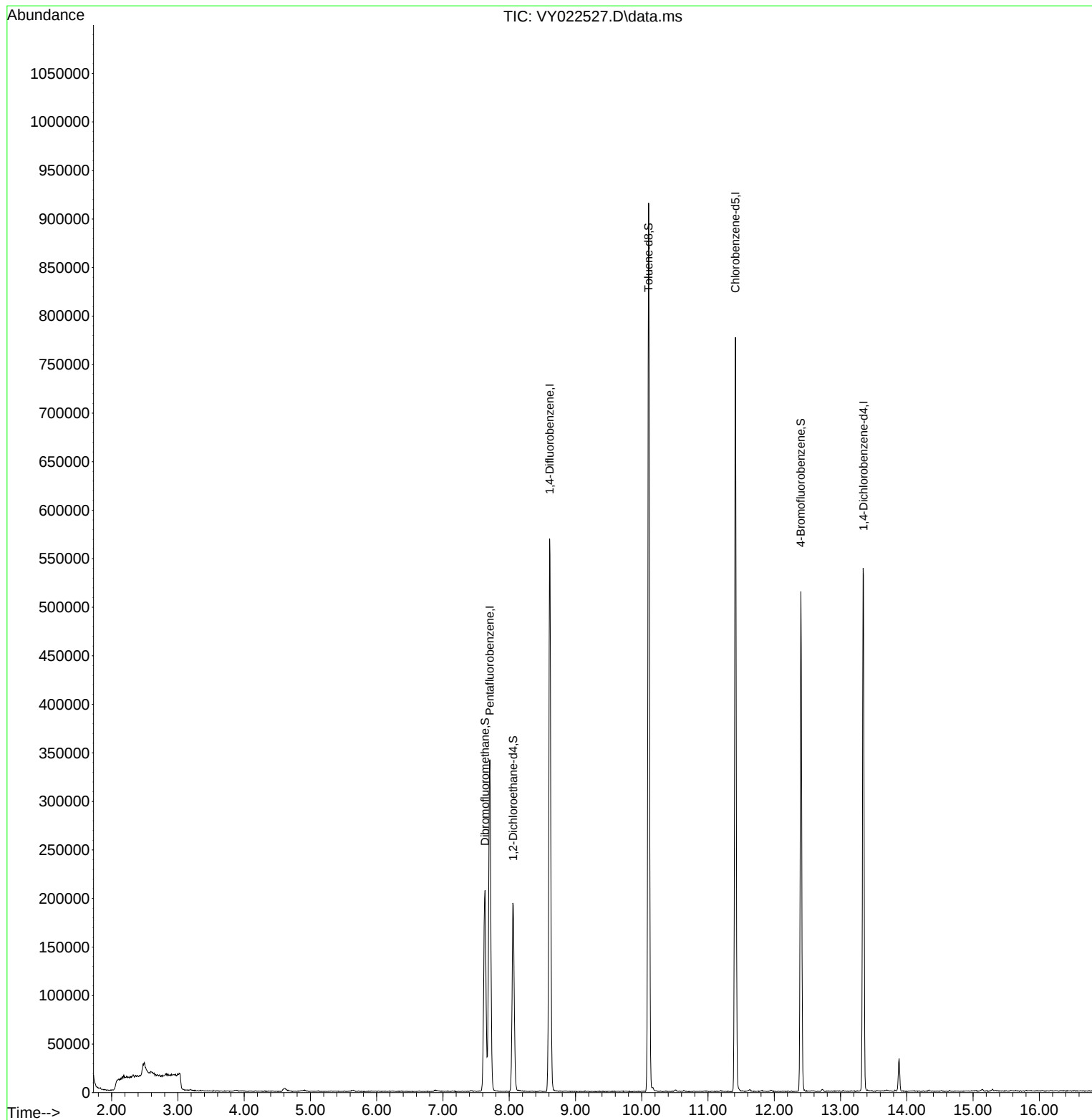
Target Compounds	Qvalue

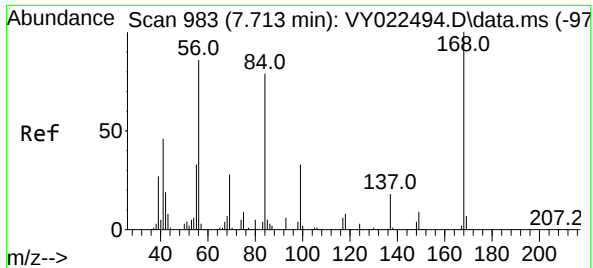
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022527.D
Acq On : 03 Jun 2025 16:58
Operator : SY/MD
Sample : Q2176-02
Misc : 5.90g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-56

Quant Time: Jun 04 04:15:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

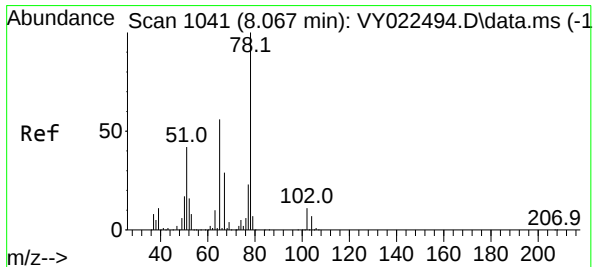
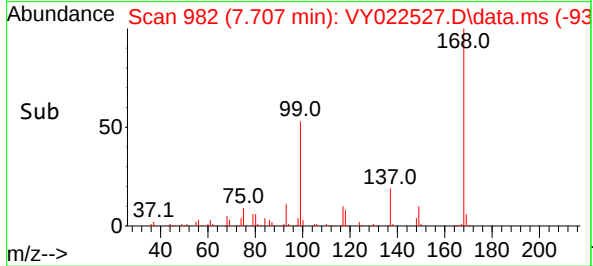
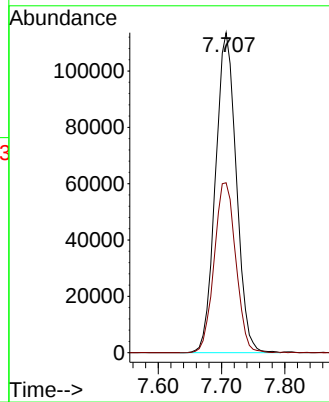
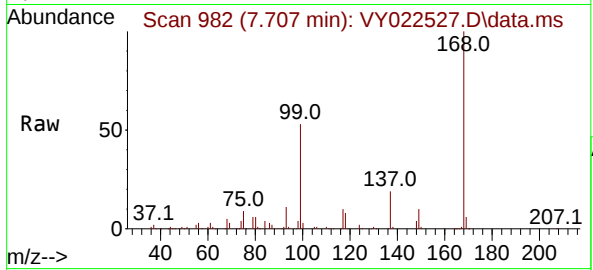




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022527.D
Acq: 03 Jun 2025 16:58

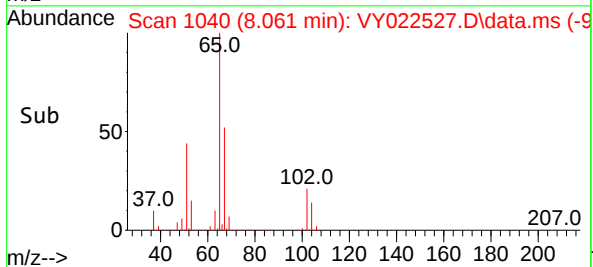
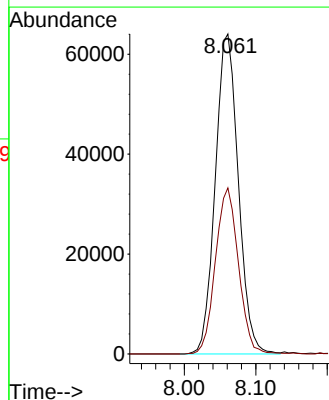
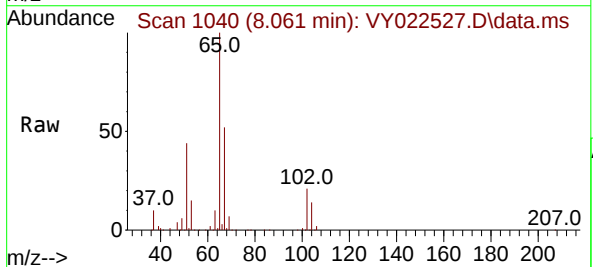
Instrument :
MSVOA_Y
ClientSampleId :
TP-56

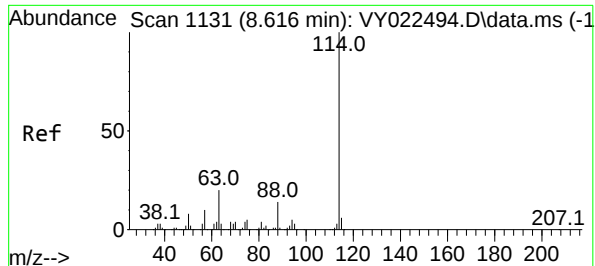
Tgt Ion:168 Resp: 259331
Ion Ratio Lower Upper
168 100
99 53.1 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 49.454 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022527.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 65 Resp: 143439
Ion Ratio Lower Upper
65 100
67 51.9 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY022527.D

Acq: 03 Jun 2025 16:58

Instrument :

MSVOA_Y

ClientSampleId :

TP-56

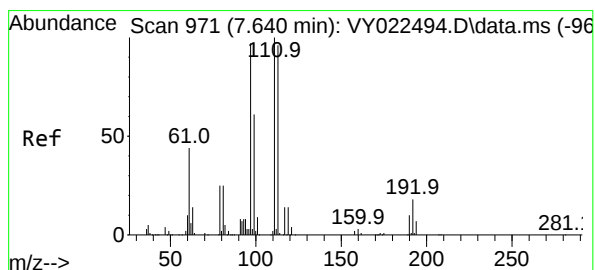
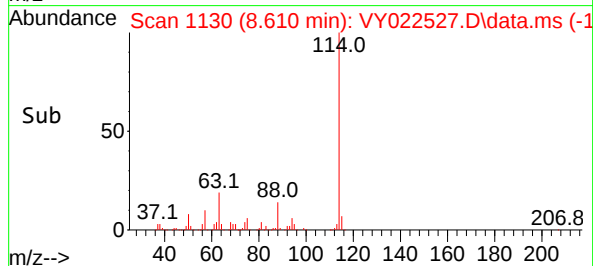
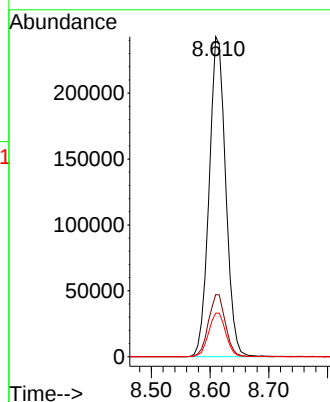
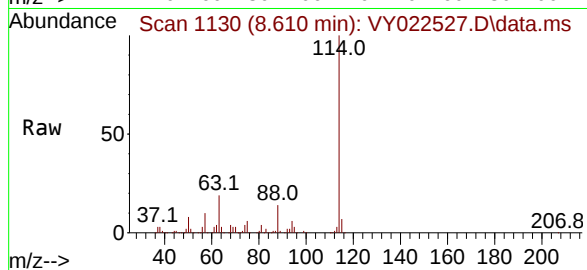
Tgt Ion:114 Resp: 475112

Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.8

88 13.6 0.0 27.8



#35

Dibromofluoromethane

Concen: 50.670 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022527.D

Acq: 03 Jun 2025 16:58

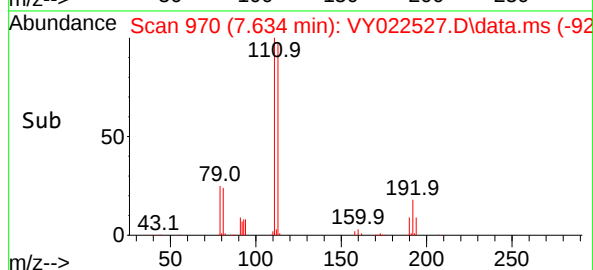
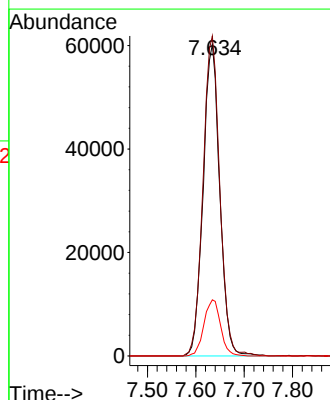
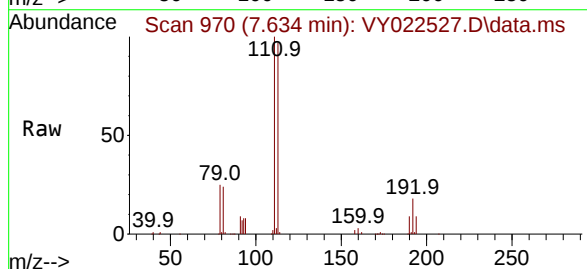
Tgt Ion:113 Resp: 143691

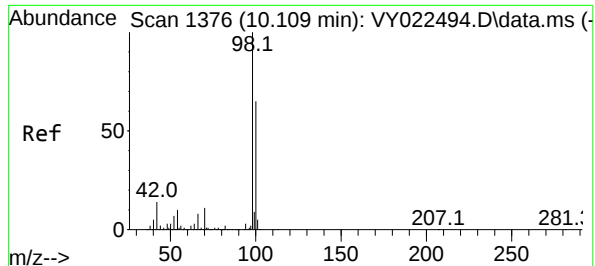
Ion Ratio Lower Upper

113 100

111 103.6 81.1 121.7

192 18.0 14.2 21.2

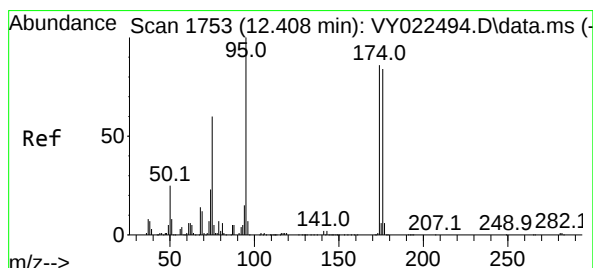
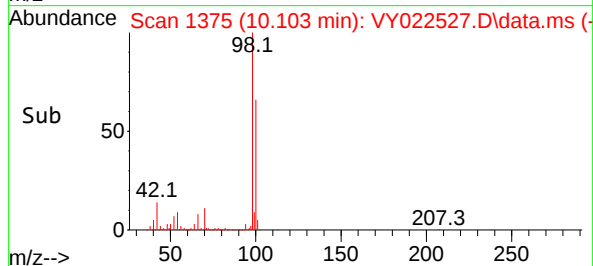
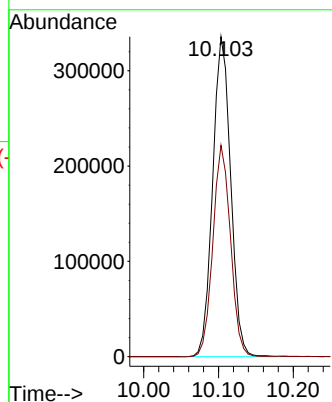
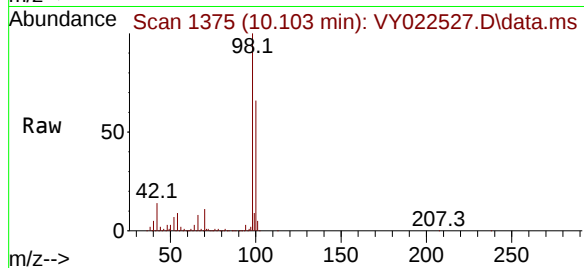




#50
Toluene-d8
Concen: 49.221 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022527.D
Acq: 03 Jun 2025 16:58

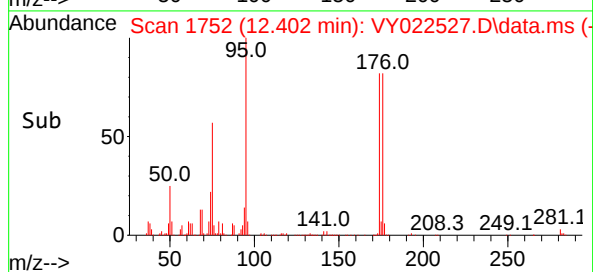
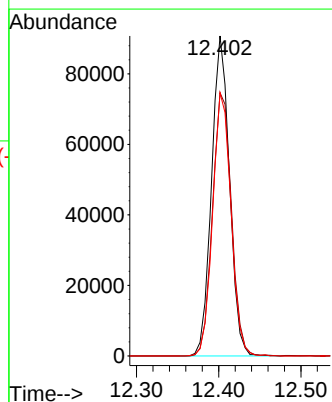
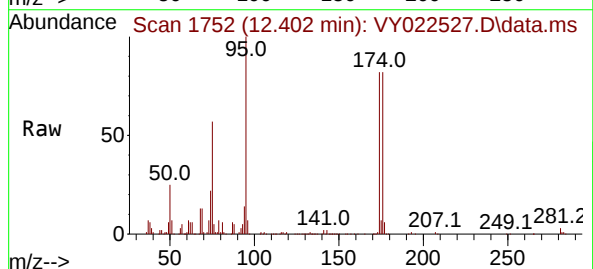
Instrument :
MSVOA_Y
ClientSampleId :
TP-56

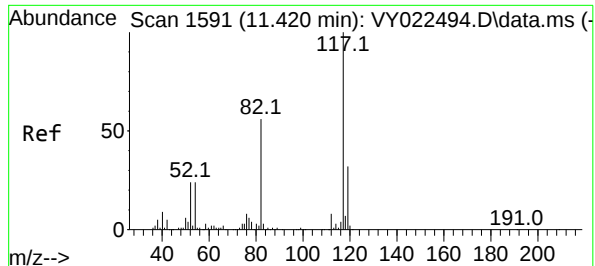
Tgt Ion: 98 Resp: 564005
Ion Ratio Lower Upper
98 100
100 64.6 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 40.283 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022527.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 95 Resp: 137531
Ion Ratio Lower Upper
95 100
174 86.9 0.0 170.0
176 84.1 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY022527.D

Acq: 03 Jun 2025 16:58

Instrument :

MSVOA_Y

ClientSampleId :

TP-56

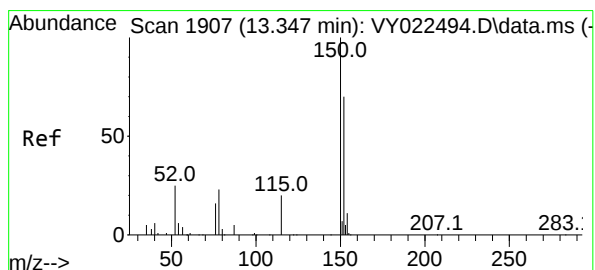
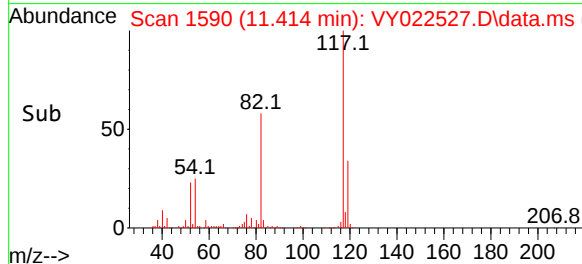
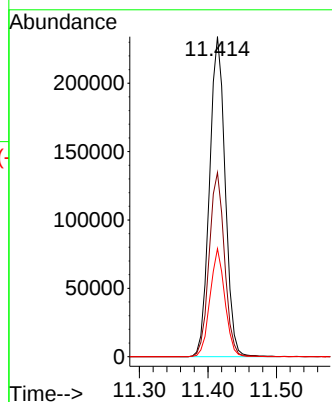
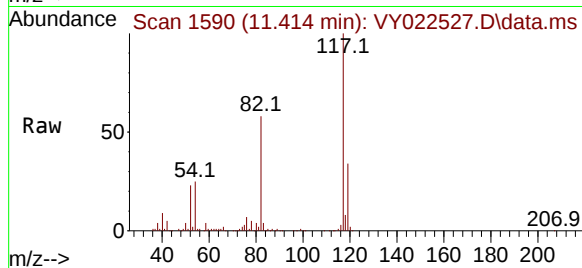
Tgt Ion:117 Resp: 372480

Ion Ratio Lower Upper

117 100

82 57.6 44.6 66.8

119 33.8 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022527.D

Acq: 03 Jun 2025 16:58

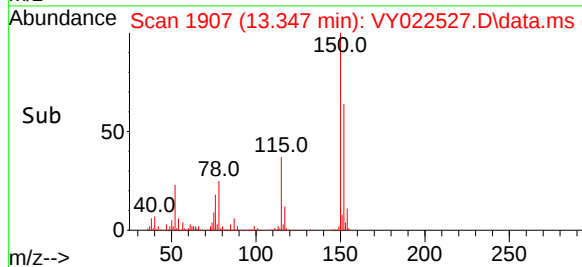
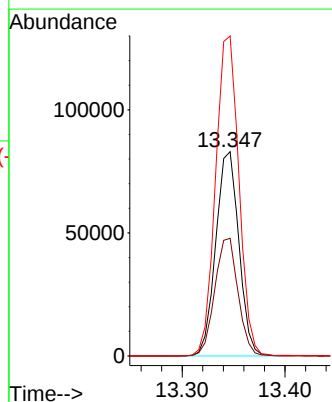
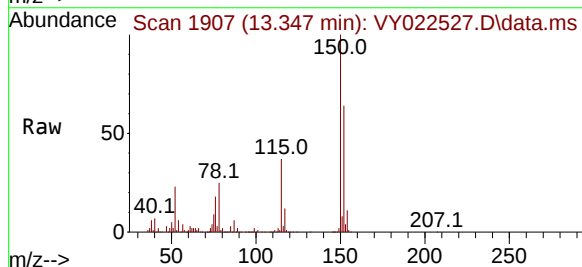
Tgt Ion:152 Resp: 129377

Ion Ratio Lower Upper

152 100

115 58.2 28.9 86.7

150 158.1 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022527.D
 Acq On : 03 Jun 2025 16:58
 Operator : SY/MD
 Sample : Q2176-02
 Misc : 5.90g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-56

A
B
C
D
E
F
G
H
I
J

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\82Y060225S.M

Title : SW846 8260

Signal : TIC: VY022527.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	rBV5	10445	22959	1.50%	0.312%
2	2.477	119	124	125	rBV2	11339	16177	1.06%	0.220%
3	7.634	959	970	975	rBV2	206931	489260	31.99%	6.652%
4	7.707	975	982	993	rVB	341030	786033	51.39%	10.688%
5	8.055	1030	1039	1052	rBV	194561	433343	28.33%	5.892%
6	8.610	1122	1130	1144	rBV	569263	1118203	73.11%	15.204%
7	10.103	1367	1375	1383	rBV	915501	1529535	100.00%	20.797%
8	11.414	1582	1590	1604	rBV	777208	1227958	80.28%	16.696%
9	12.402	1745	1752	1764	rVB	515111	823441	53.84%	11.196%
10	13.340	1898	1906	1915	rBV	538752	854762	55.88%	11.622%
11	13.883	1989	1995	2002	rVB	33911	52985	3.46%	0.720%

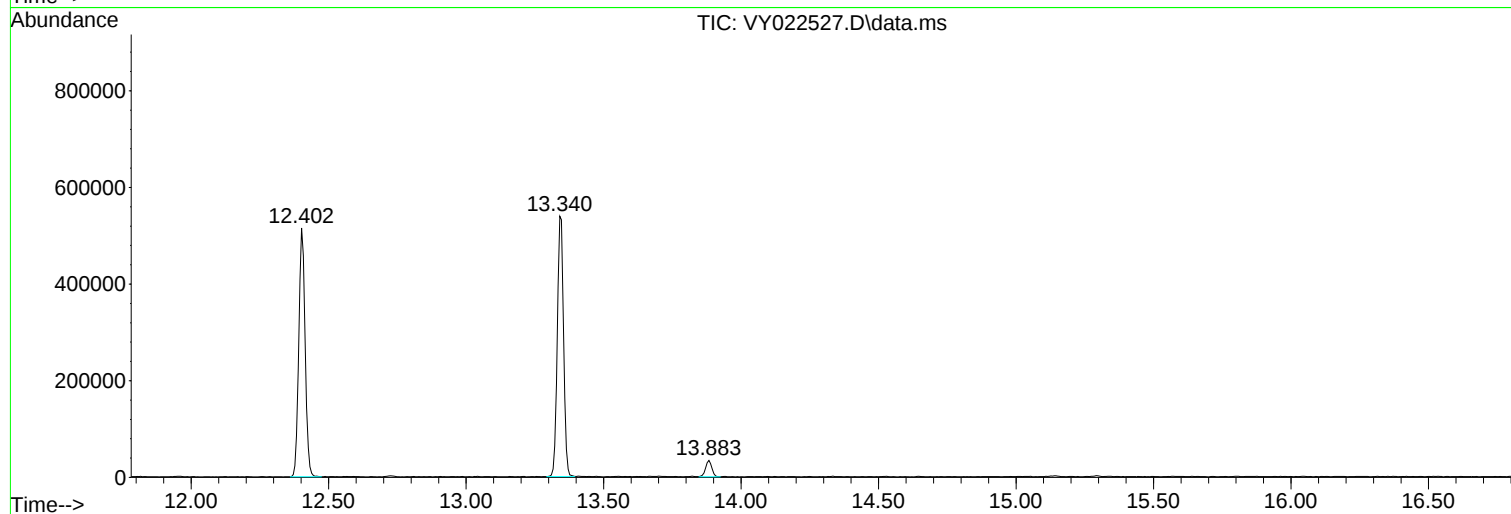
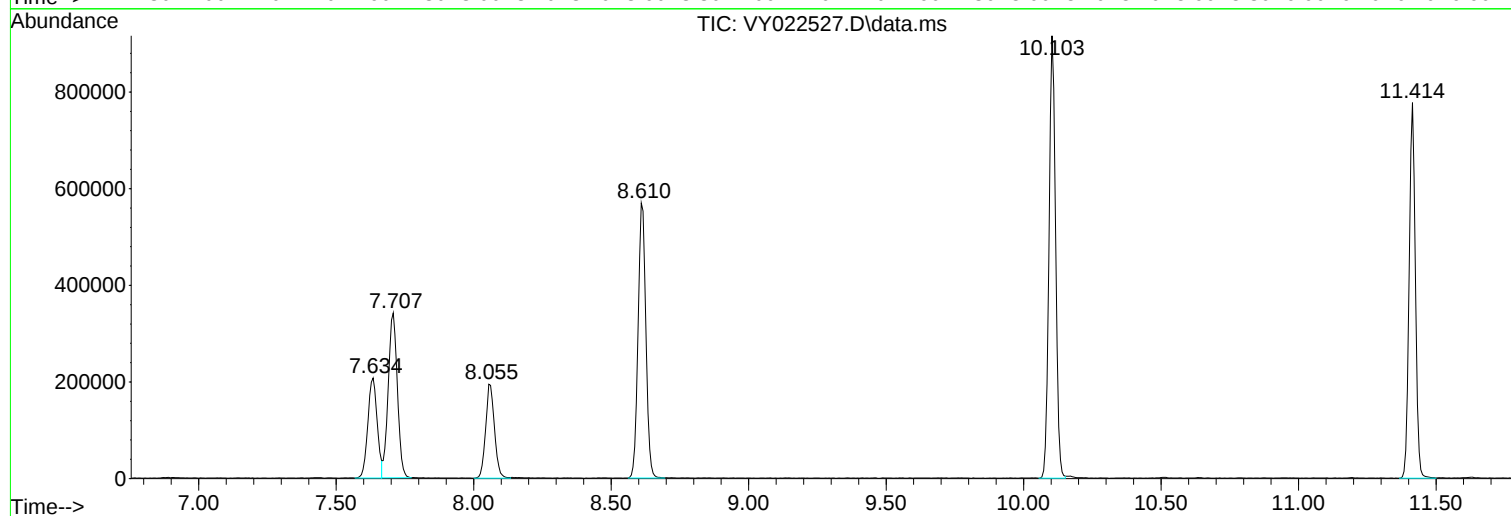
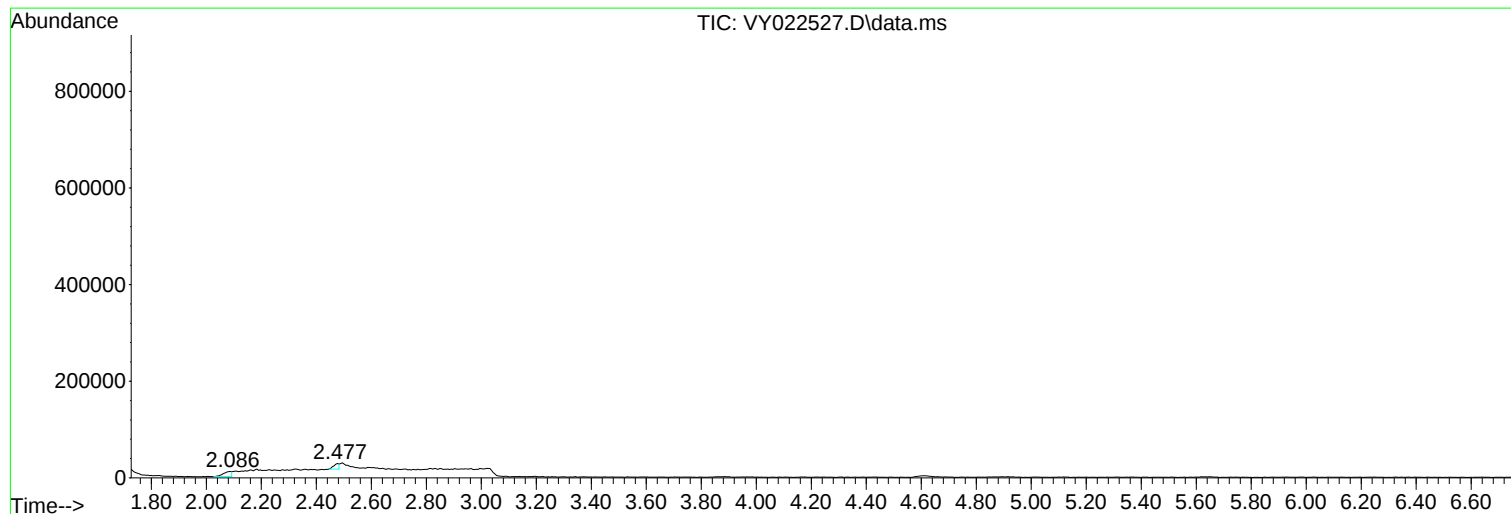
Sum of corrected areas: 7354656

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022527.D
Acq On : 03 Jun 2025 16:58
Operator : SY/MD
Sample : Q2176-02
Misc : 5.90g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-56

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022527.D
Acq On : 03 Jun 2025 16:58
Operator : SY/MD
Sample : Q2176-02
Misc : 5.90g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-56

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022527.D
Acq On : 03 Jun 2025 16:58
Operator : SY/MD
Sample : Q2176-02
Misc : 5.90g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-56

A

B

C

D

E

F

G

H

I

J

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.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--			
					#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022528.D
 Acq On : 03 Jun 2025 17:22
 Operator : SY/MD
 Sample : Q2176-03
 Misc : 5.87g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-25

A
B
C
D
E
F
G
H
I
J

Quant Time: Jun 04 04:15:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	277698	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	501520	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	388135	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	133596	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	136425	43.925	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	87.840%
35) Dibromofluoromethane	7.628	113	144079	48.131	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.260%
50) Toluene-d8	10.103	98	597801	49.423	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.840%
62) 4-Bromofluorobenzene	12.402	95	141351	39.222	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	78.440%

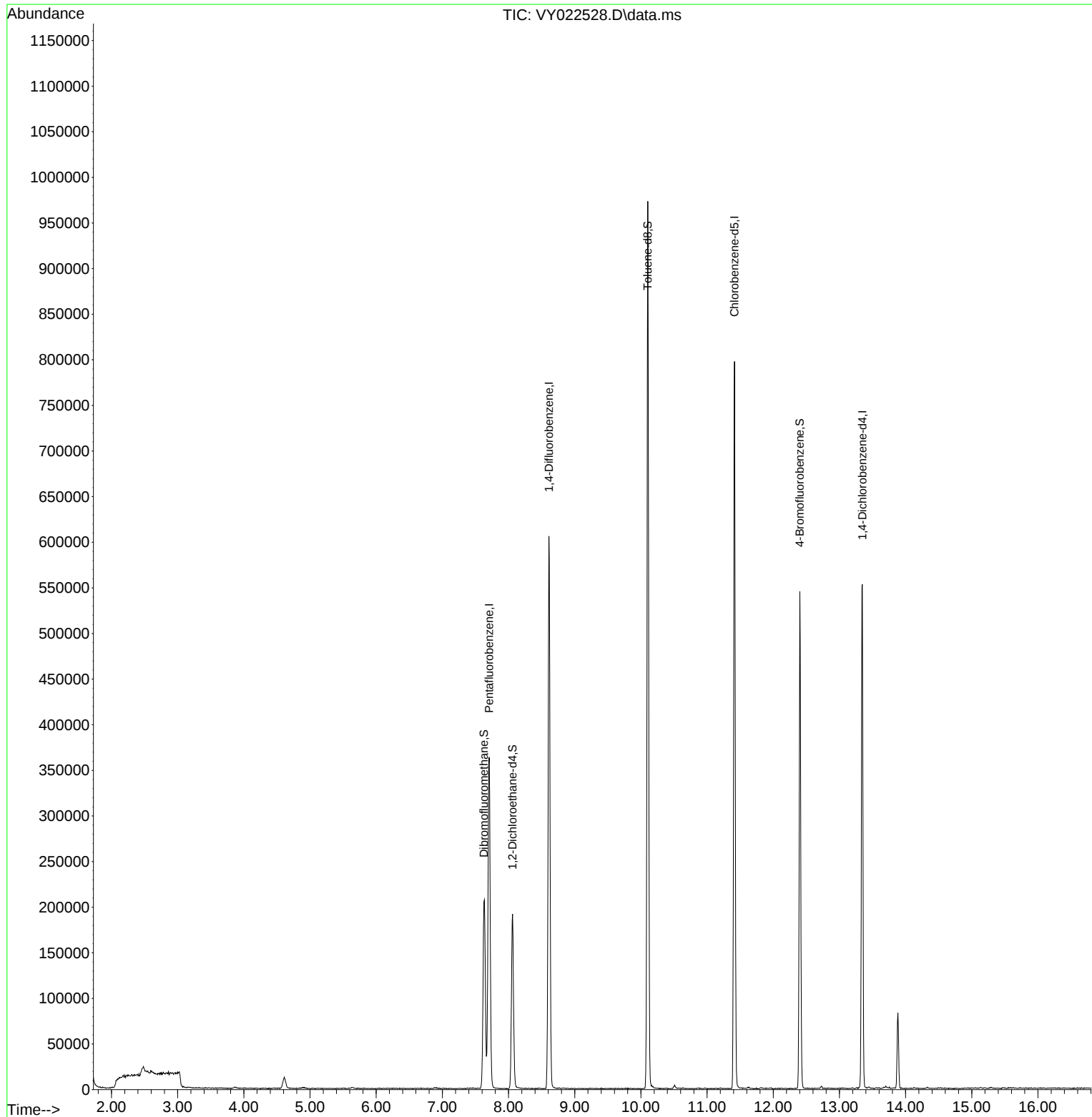
Target Compounds	Qvalue

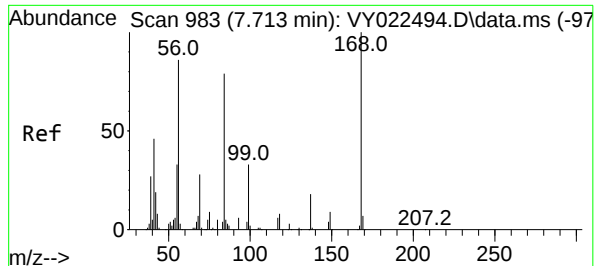
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022528.D
Acq On : 03 Jun 2025 17:22
Operator : SY/MD
Sample : Q2176-03
Misc : 5.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-25

Quant Time: Jun 04 04:15:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

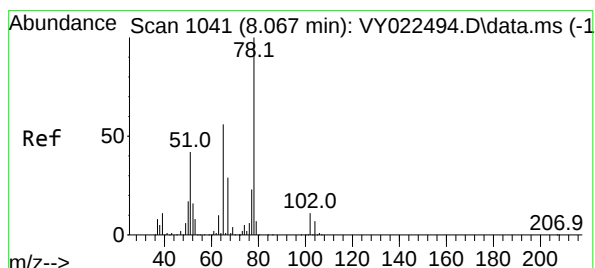
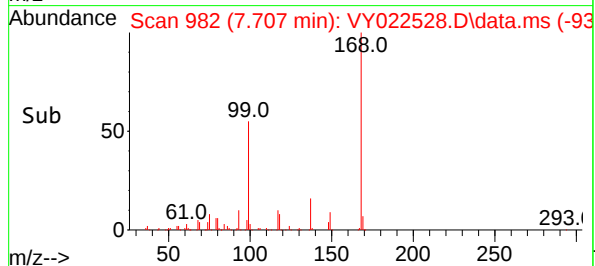
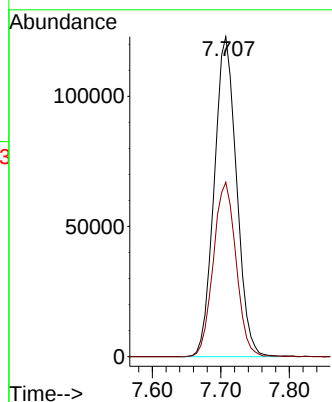
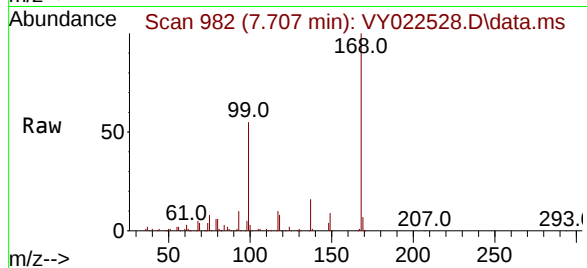




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022528.D
Acq: 03 Jun 2025 17:22

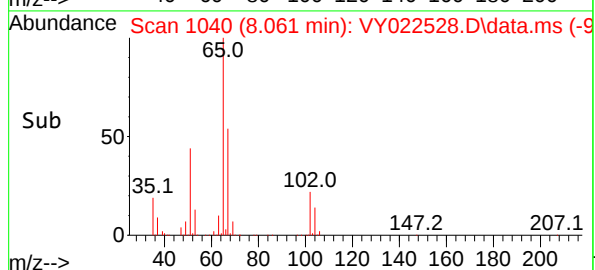
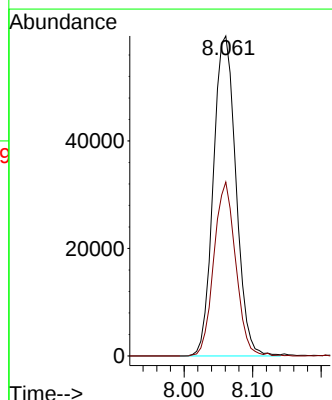
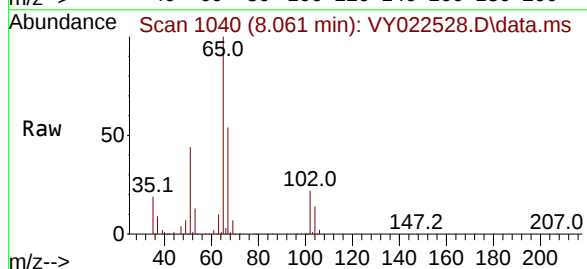
Instrument :
MSVOA_Y
ClientSampleId :
TP-25

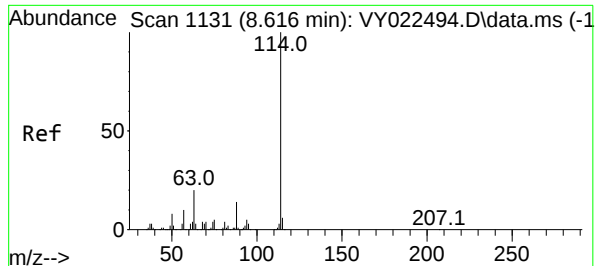
Tgt Ion:168 Resp: 277698
Ion Ratio Lower Upper
168 100
99 54.5 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 43.925 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022528.D
Acq: 03 Jun 2025 17:22

Tgt Ion: 65 Resp: 136425
Ion Ratio Lower Upper
65 100
67 52.4 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022528.D

Acq: 03 Jun 2025 17:22

Instrument :

MSVOA_Y

ClientSampleId :

TP-25

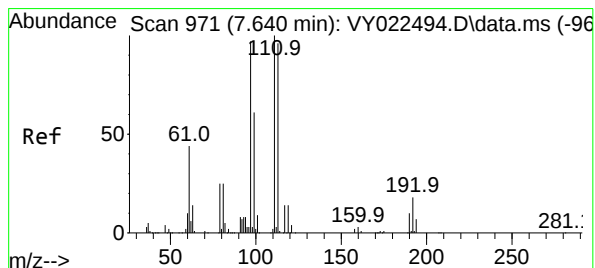
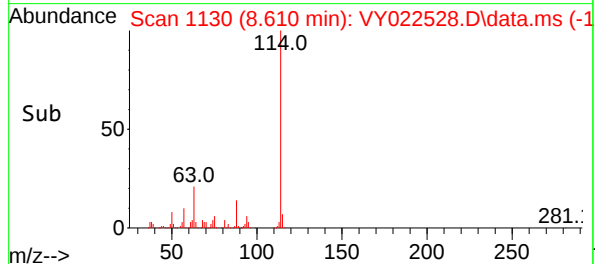
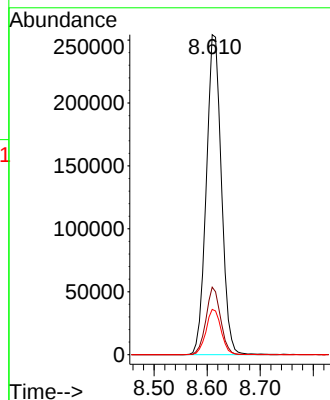
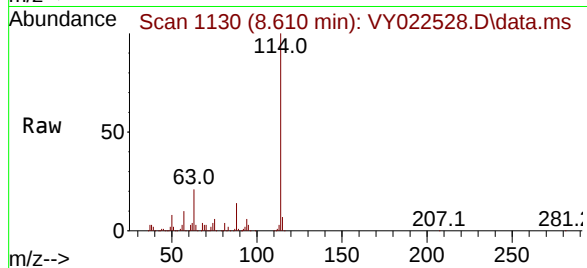
Tgt Ion:114 Resp: 501520

Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.8

88 14.2 0.0 27.8



#35

Dibromofluoromethane

Concen: 48.131 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.012 min

Lab File: VY022528.D

Acq: 03 Jun 2025 17:22

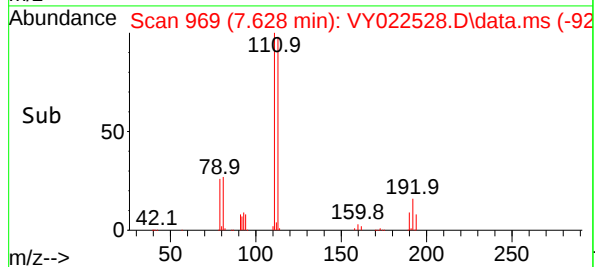
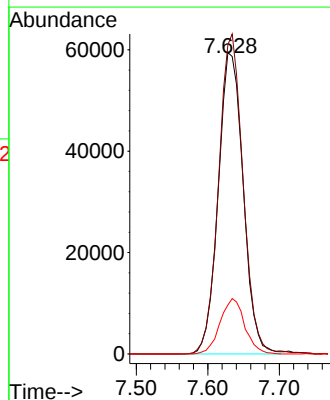
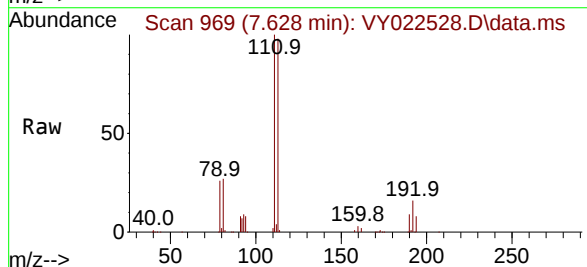
Tgt Ion:113 Resp: 144079

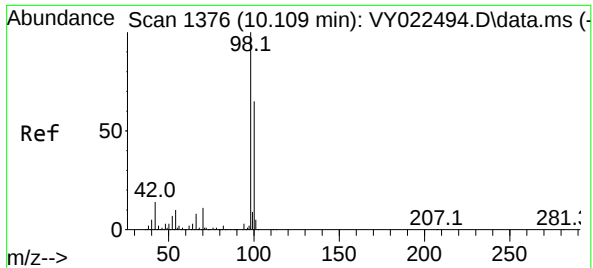
Ion Ratio Lower Upper

113 100

111 104.1 81.1 121.7

192 18.1 14.2 21.2

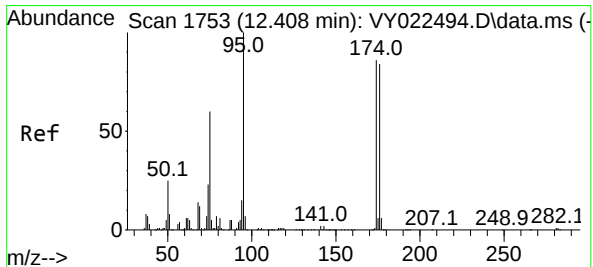
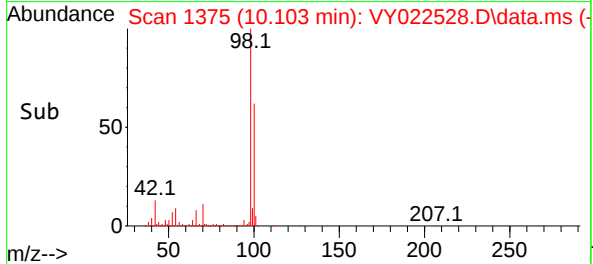
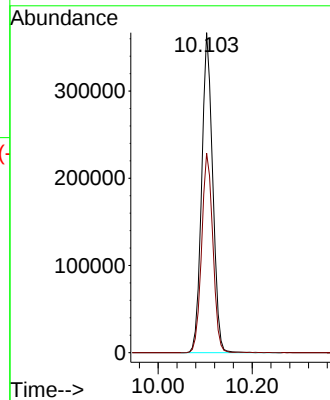
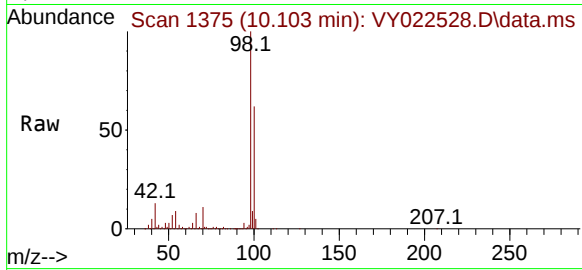




#50
Toluene-d8
Concen: 49.423 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022528.D
Acq: 03 Jun 2025 17:22

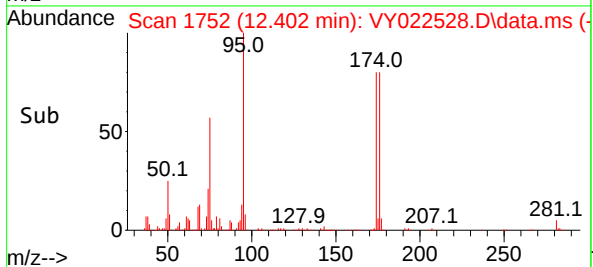
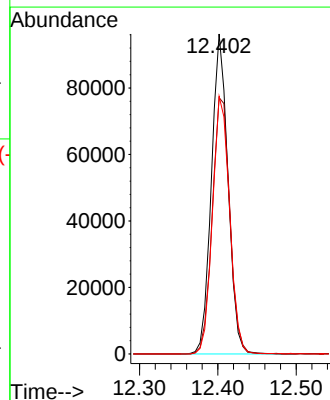
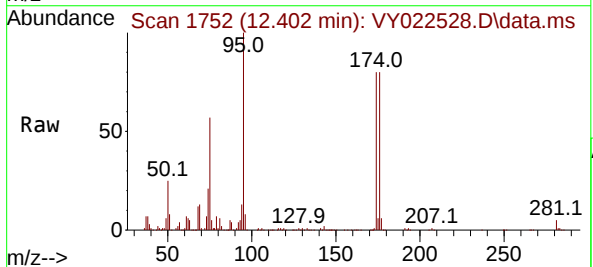
Instrument :
MSVOA_Y
ClientSampleId :
TP-25

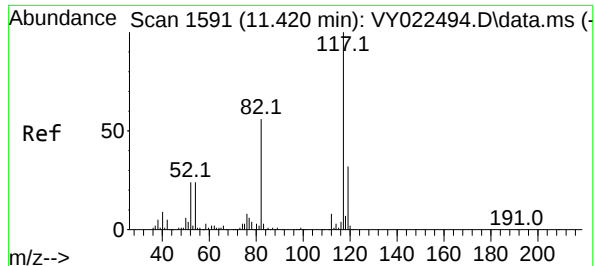
Tgt Ion: 98 Resp: 597801
Ion Ratio Lower Upper
98 100
100 63.6 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 39.222 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022528.D
Acq: 03 Jun 2025 17:22

Tgt Ion: 95 Resp: 141351
Ion Ratio Lower Upper
95 100
174 85.3 0.0 170.0
176 83.2 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 117

Delta R.T. -0.006 min

Lab File: VY022528.D

Acq: 03 Jun 2025 17:22

Instrument :

MSVOA_Y

ClientSampleId :

TP-25

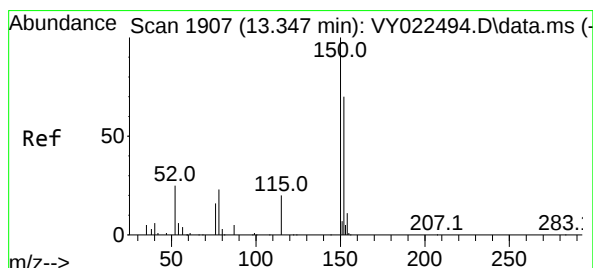
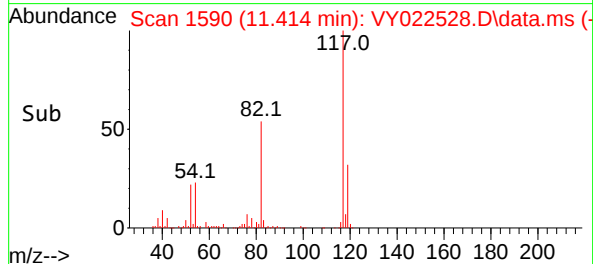
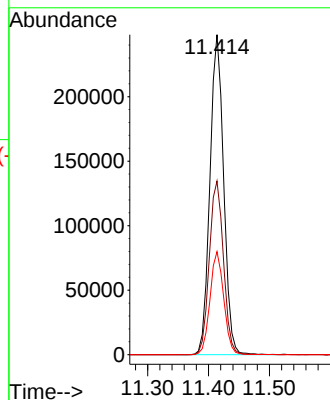
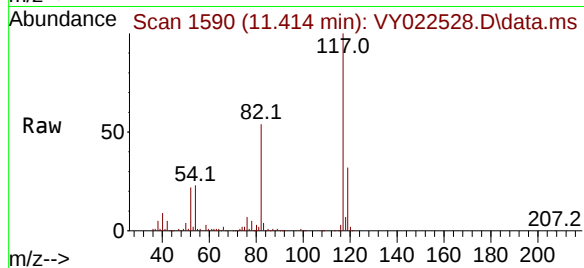
Tgt Ion:117 Resp: 388135

Ion Ratio Lower Upper

117 100

82 54.2 44.6 66.8

119 32.2 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022528.D

Acq: 03 Jun 2025 17:22

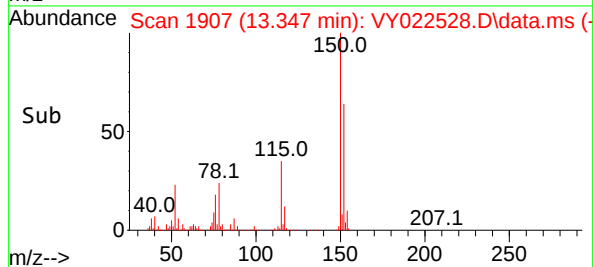
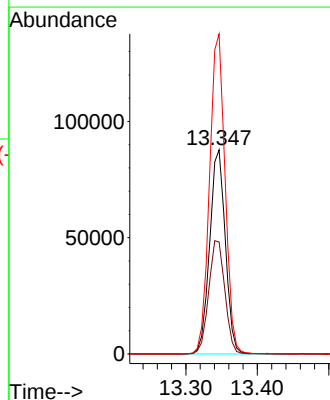
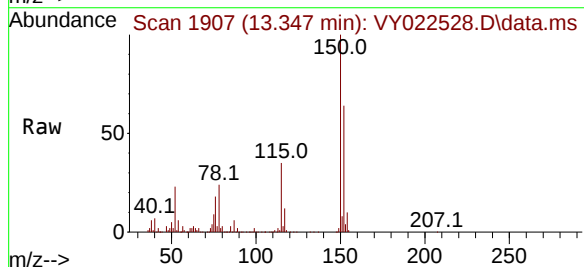
Tgt Ion:152 Resp: 133596

Ion Ratio Lower Upper

152 100

115 57.4 28.9 86.7

150 155.1 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022528.D
Acq On : 03 Jun 2025 17:22
Operator : SY/MD
Sample : Q2176-03
Misc : 5.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-25

A
B
C
D
E
F
G
H
I
J

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\82Y060225S.M

Title : SW846 8260

Signal : TIC: VY022528.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.129	58	67	69	rVV7	4082	16587	1.03%	0.213%
2	2.483	116	125	129	rBV3	10489	32137	1.99%	0.413%
3	4.610	464	474	487	rVB3	12189	36899	2.28%	0.474%
4	7.634	959	970	975	rBV2	206781	495856	30.67%	6.366%
5	7.707	975	982	1000	rVB	362717	847960	52.44%	10.887%
6	8.061	1028	1040	1052	rBV	191487	420304	25.99%	5.396%
7	8.610	1122	1130	1142	rBV	605403	1183632	73.20%	15.197%
8	10.103	1367	1375	1384	rBV	972258	1616943	100.00%	20.760%
9	11.414	1582	1590	1602	rBV	797072	1271971	78.67%	16.331%
10	12.402	1745	1752	1762	rBV2	544747	861931	53.31%	11.067%
11	13.347	1899	1907	1917	rVB	551769	871318	53.89%	11.187%
12	13.883	1988	1995	2002	rVB2	82920	133047	8.23%	1.708%

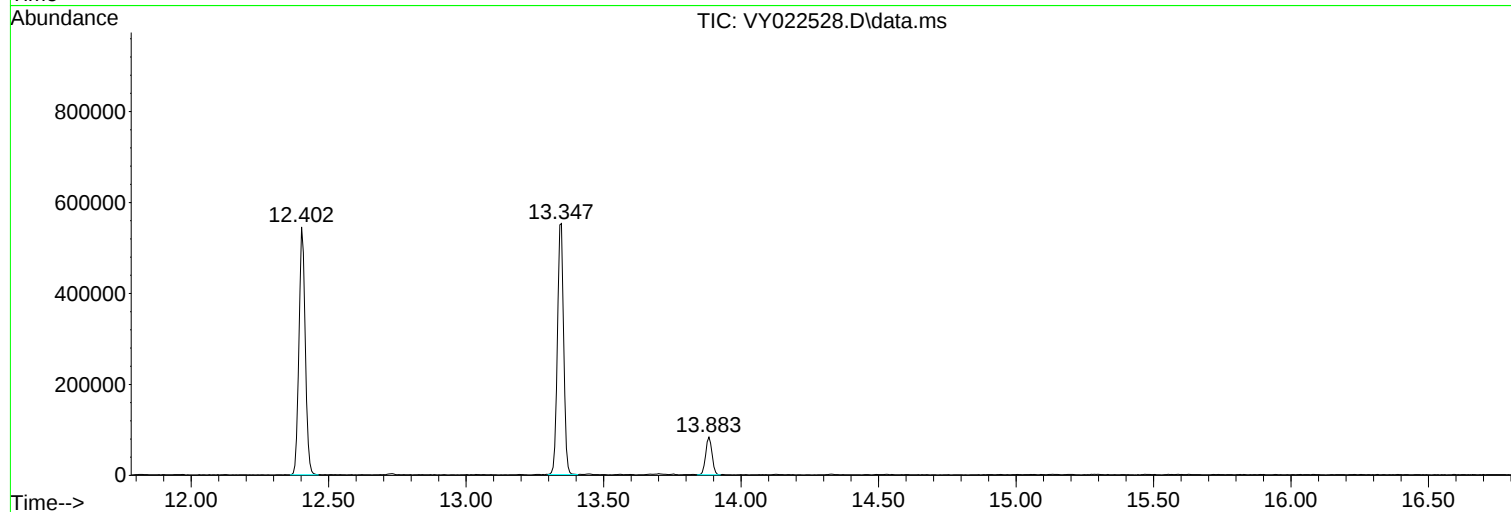
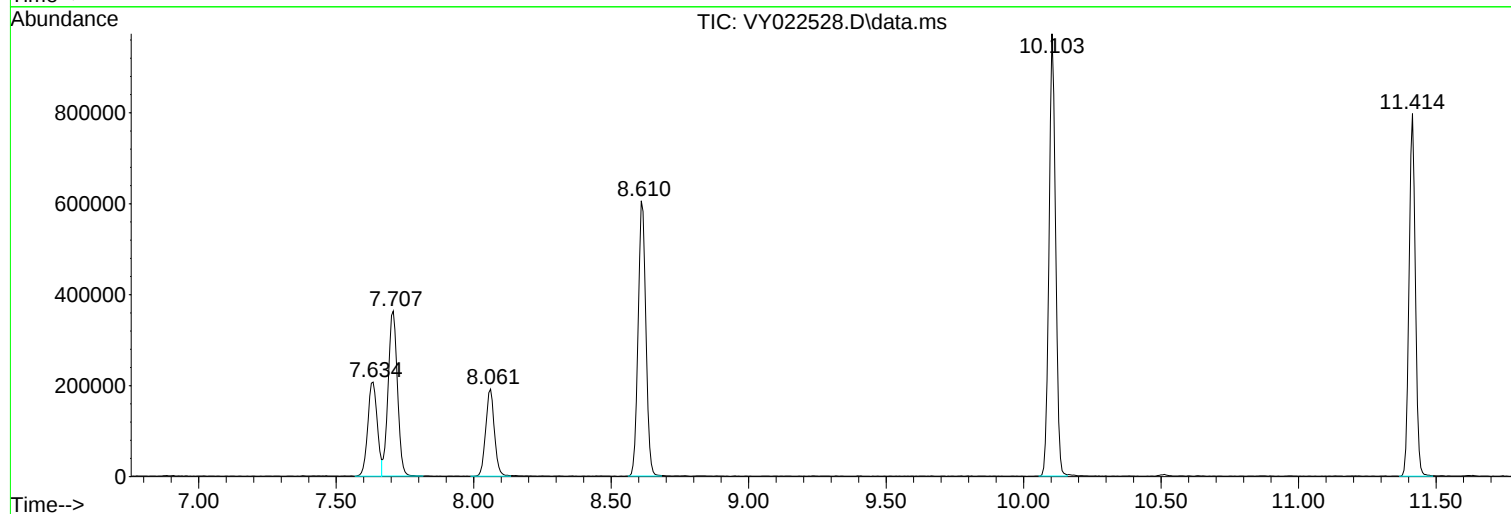
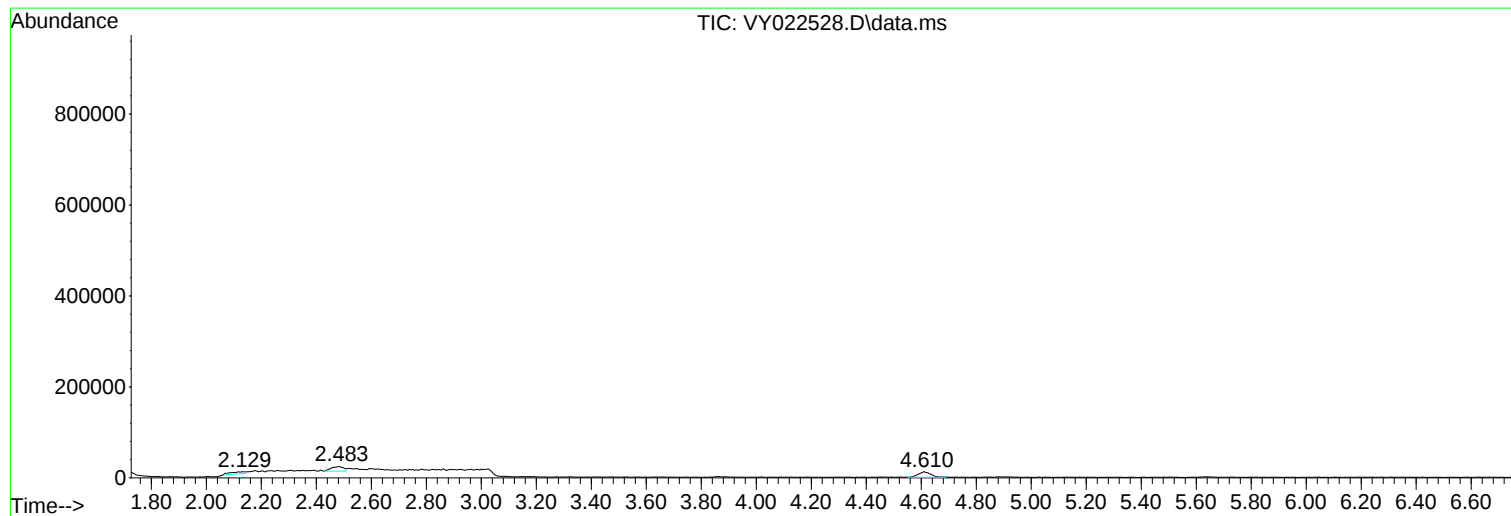
Sum of corrected areas: 7788585

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022528.D
Acq On : 03 Jun 2025 17:22
Operator : SY/MD
Sample : Q2176-03
Misc : 5.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-25

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022528.D
Acq On : 03 Jun 2025 17:22
Operator : SY/MD
Sample : Q2176-03
Misc : 5.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-25

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022528.D
Acq On : 03 Jun 2025 17:22
Operator : SY/MD
Sample : Q2176-03
Misc : 5.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-25

A

B

C

D

E

F

G

H

I

J

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
------------------	----	---------	-------	----------	---	----	------	------

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022529.D
 Acq On : 03 Jun 2025 17:45
 Operator : SY/MD
 Sample : Q2176-04
 Misc : 7.58g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-26

A
B
C
D
E
F
G
H
I
J

Quant Time: Jun 04 04:16:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

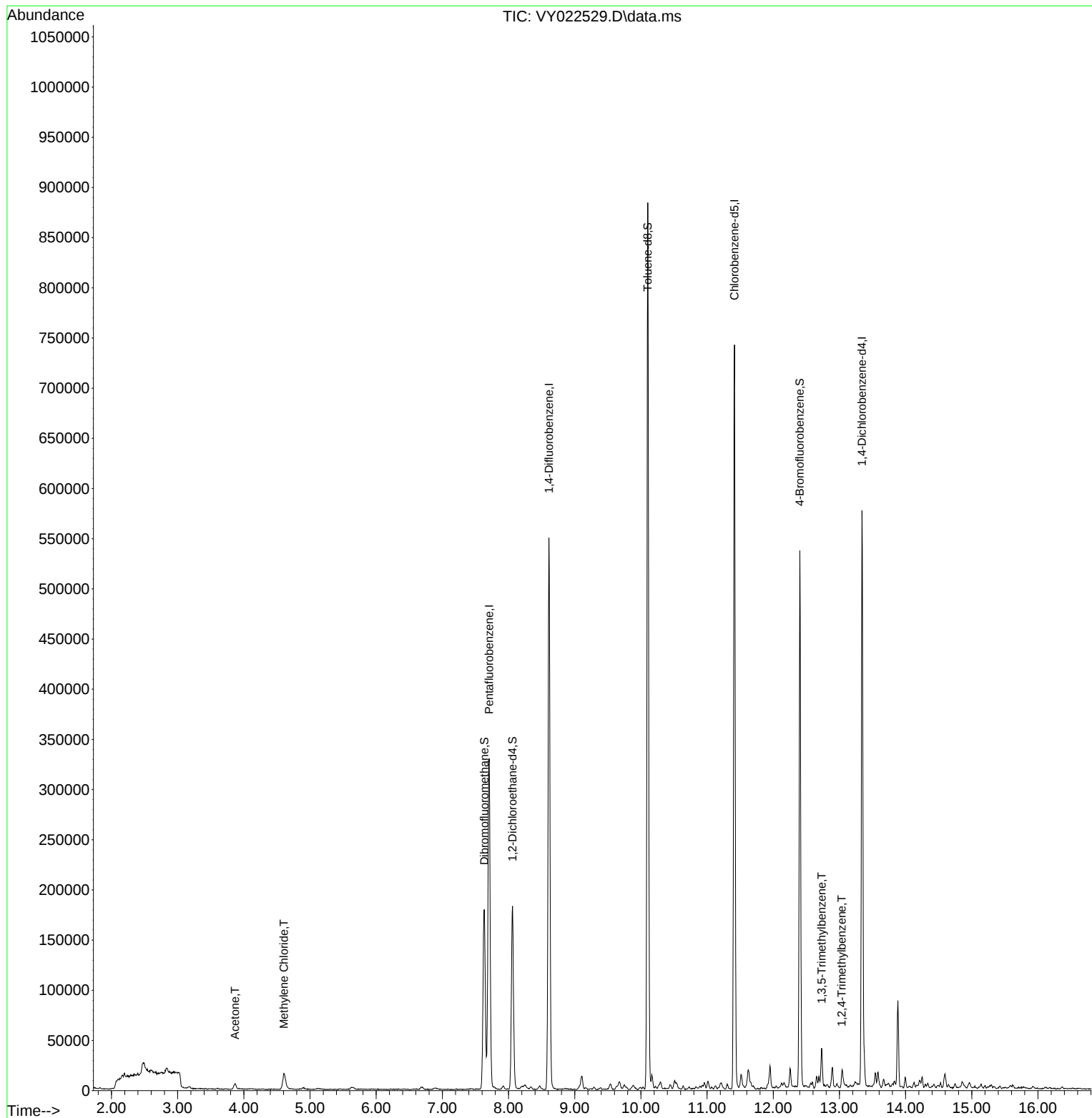
Internal Standards						
1) Pentafluorobenzene	7.707	168	245298	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	450434	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	364784	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	132285	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	136701	49.827	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	99.660%
35) Dibromofluoromethane	7.634	113	125476	46.671	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	93.340%
50) Toluene-d8	10.103	98	540372	49.742	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.480%
62) 4-Bromofluorobenzene	12.402	95	139475	43.091	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	86.180%
Target Compounds						
					Qvalue	
16) Acetone	3.867	43	8632	15.493	ug/l #	86
20) Methylene Chloride	4.604	84	10957	3.462	ug/l	92
80) 1,3,5-Trimethylbenzene	12.731	105	14508	1.702	ug/l	100
84) 1,2,4-Trimethylbenzene	13.036	105	9441	1.107	ug/l	92

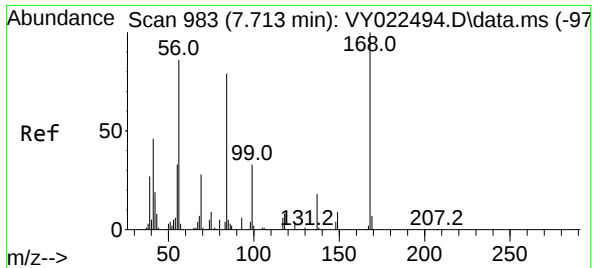
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022529.D
Acq On : 03 Jun 2025 17:45
Operator : SY/MD
Sample : Q2176-04
Misc : 7.58g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-26

Quant Time: Jun 04 04:16:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

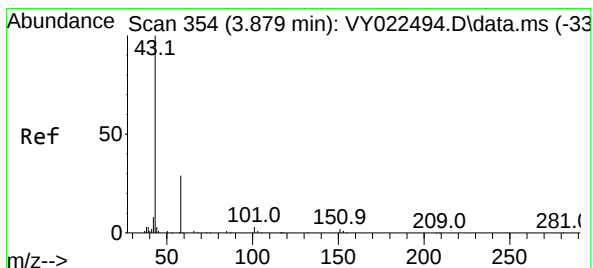
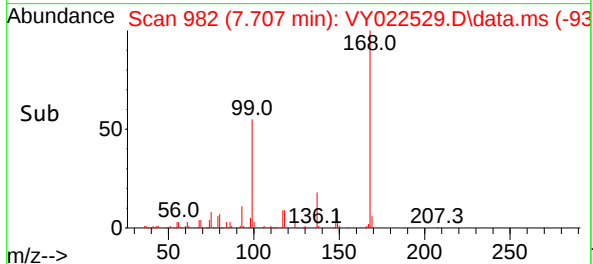
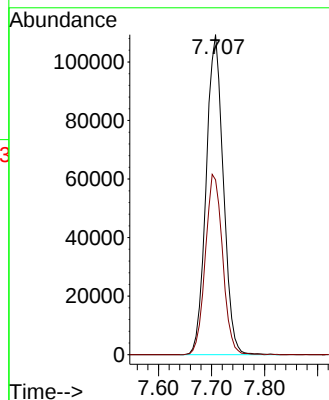
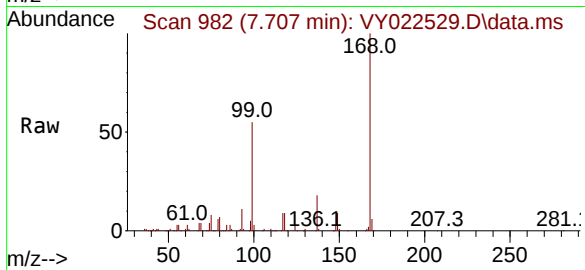




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022529.D
Acq: 03 Jun 2025 17:45

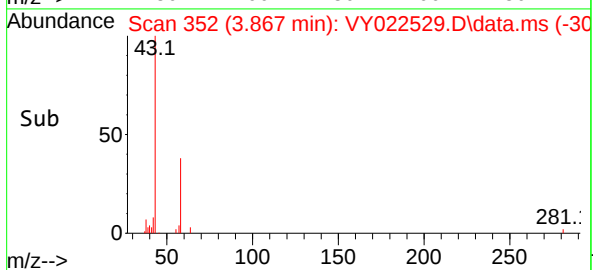
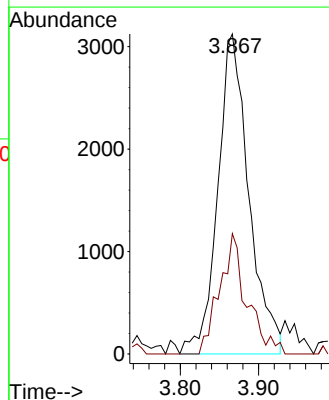
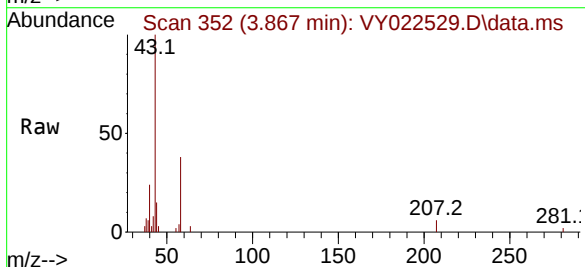
Instrument :
MSVOA_Y
ClientSampleId :
TP-26

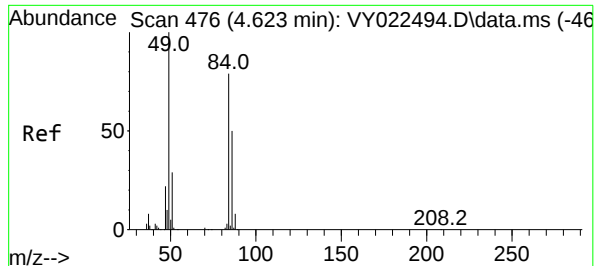
Tgt Ion:168 Resp: 245298
Ion Ratio Lower Upper
168 100
99 54.6 44.3 66.5



#16
Acetone
Concen: 15.493 ug/l
RT: 3.867 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022529.D
Acq: 03 Jun 2025 17:45

Tgt Ion: 43 Resp: 8632
Ion Ratio Lower Upper
43 100
58 37.6 24.0 36.0#





#20

Methylene Chloride

Concen: 3.462 ug/l

RT: 4.604 min Scan# 41

Delta R.T. -0.018 min

Lab File: VY022529.D

Acq: 03 Jun 2025 17:45

Instrument :

MSVOA_Y

ClientSampleId :

TP-26

Tgt Ion: 84 Resp: 10957

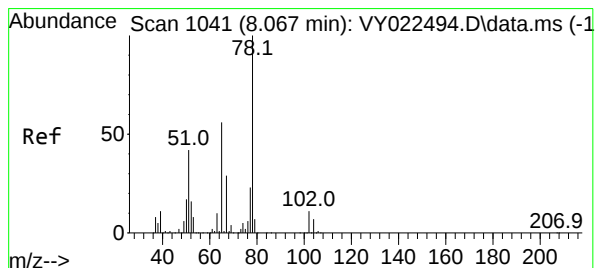
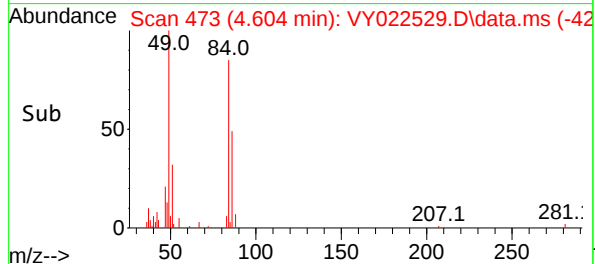
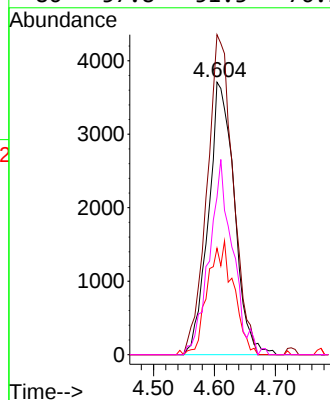
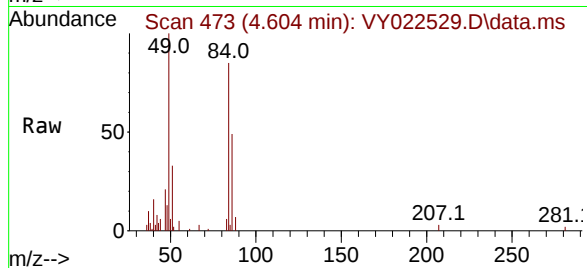
Ion Ratio Lower Upper

84 100

49 117.4 101.9 152.9

51 39.0 29.8 44.8

86 57.8 51.3 76.9



#33

1,2-Dichloroethane-d4

Concen: 49.827 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. -0.006 min

Lab File: VY022529.D

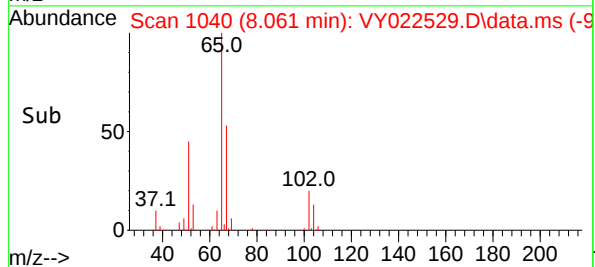
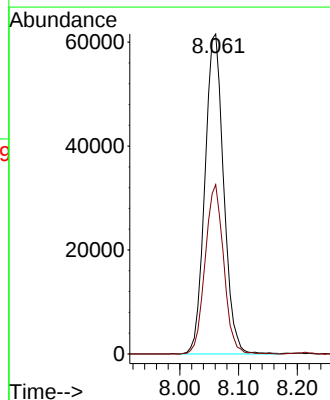
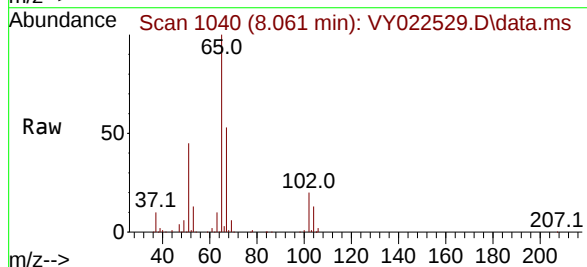
Acq: 03 Jun 2025 17:45

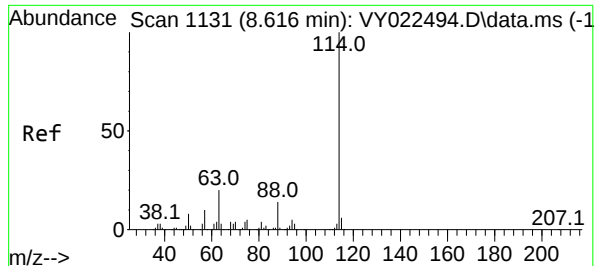
Tgt Ion: 65 Resp: 136701

Ion Ratio Lower Upper

65 100

67 52.3 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY022529.D

Acq: 03 Jun 2025 17:45

Instrument :

MSVOA_Y

ClientSampleId :

TP-26

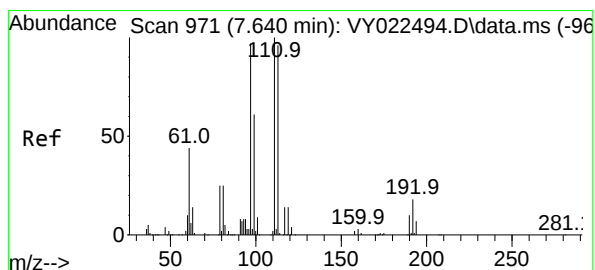
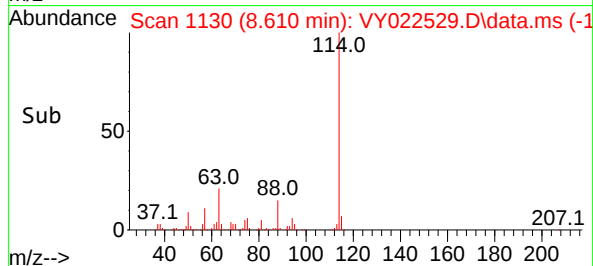
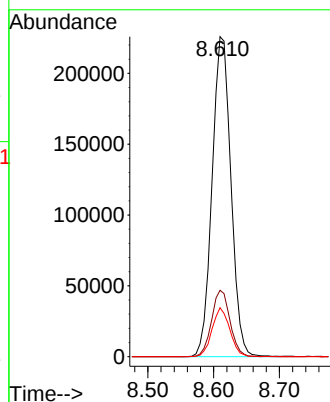
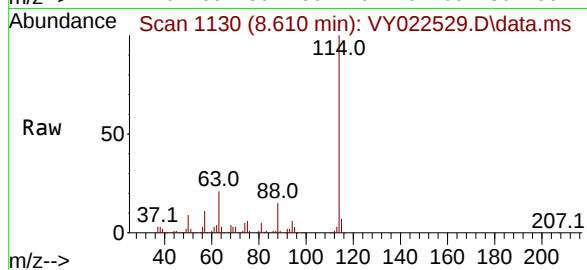
Tgt Ion:114 Resp: 450434

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

88 15.3 0.0 27.8



#35

Dibromofluoromethane

Concen: 46.671 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022529.D

Acq: 03 Jun 2025 17:45

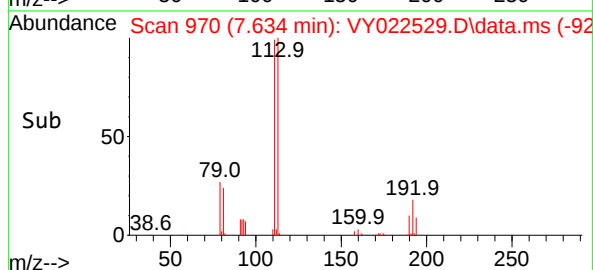
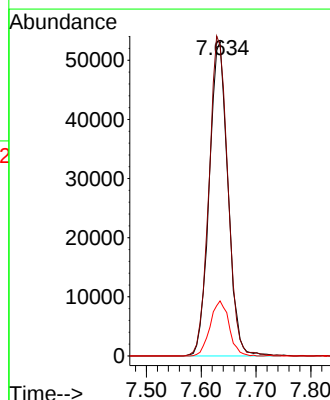
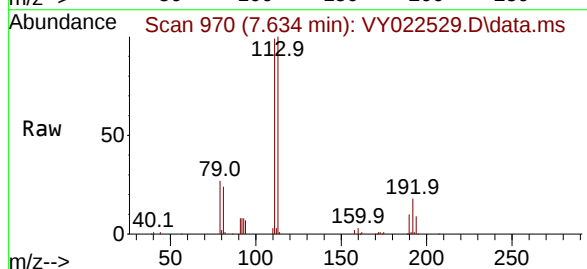
Tgt Ion:113 Resp: 125476

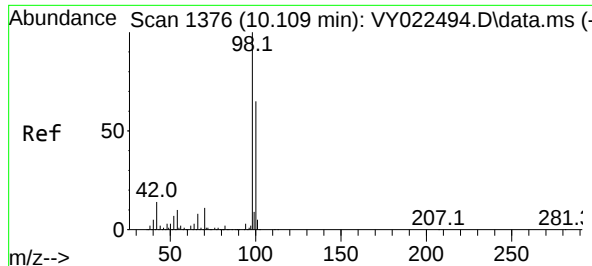
Ion Ratio Lower Upper

113 100

111 102.7 81.1 121.7

192 17.7 14.2 21.2





#50

Toluene-d8

Concen: 49.742 ug/l

RT: 10.103 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY022529.D

Acq: 03 Jun 2025 17:45

Instrument :

MSVOA_Y

ClientSampleId :

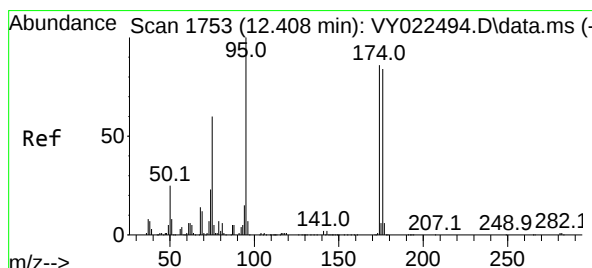
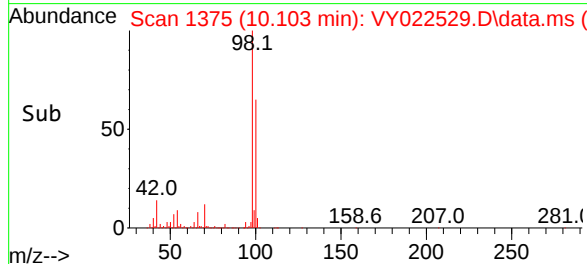
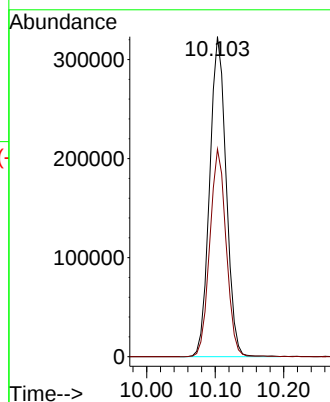
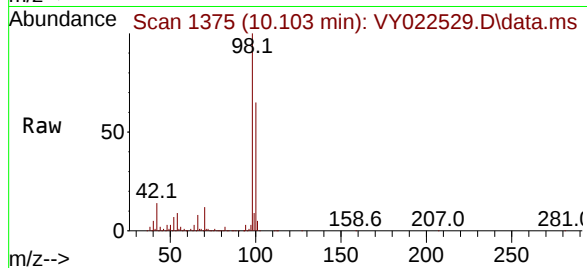
TP-26

Tgt Ion: 98 Resp: 540372

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 43.091 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022529.D

Acq: 03 Jun 2025 17:45

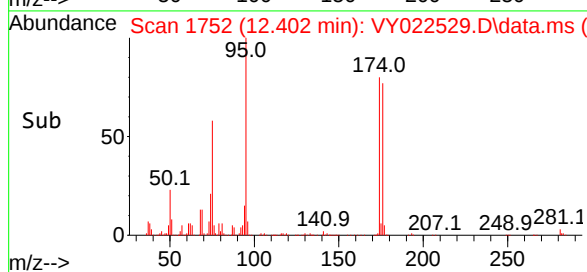
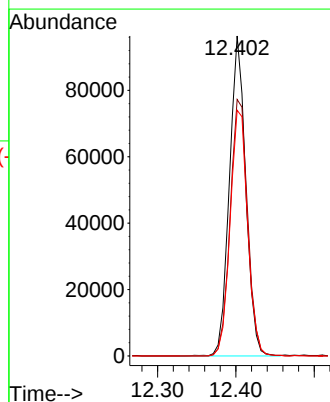
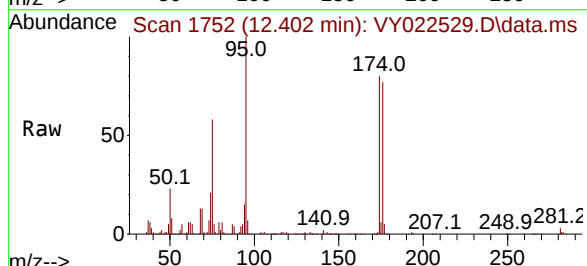
Tgt Ion: 95 Resp: 139475

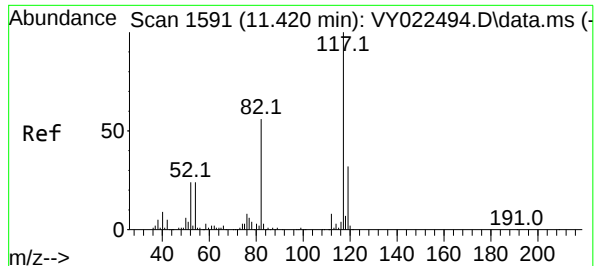
Ion Ratio Lower Upper

95 100

174 86.1 0.0 170.0

176 82.0 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 117

Delta R.T. -0.006 min

Lab File: VY022529.D

Acq: 03 Jun 2025 17:45

Instrument :

MSVOA_Y

ClientSampleId :

TP-26

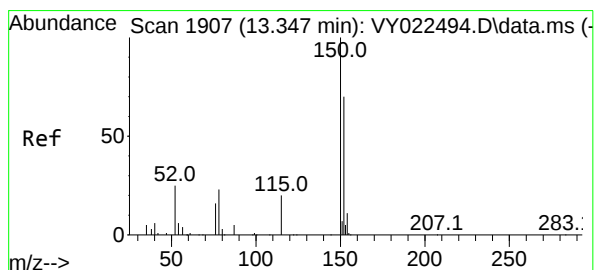
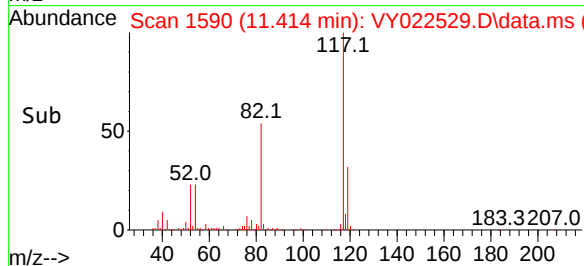
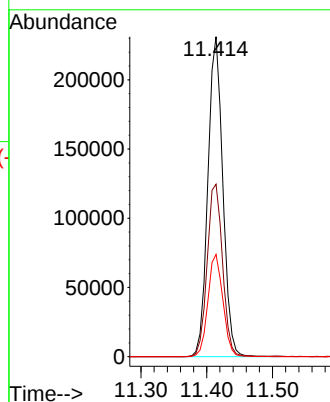
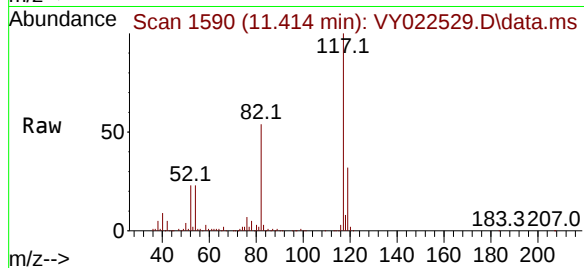
Tgt Ion:117 Resp: 364784

Ion Ratio Lower Upper

117 100

82 53.9 44.6 66.8

119 32.0 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VY022529.D

Acq: 03 Jun 2025 17:45

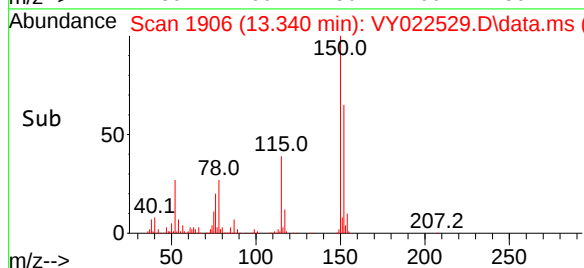
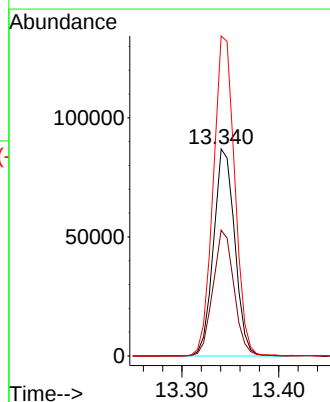
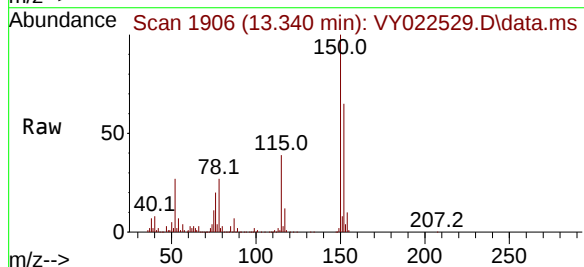
Tgt Ion:152 Resp: 132285

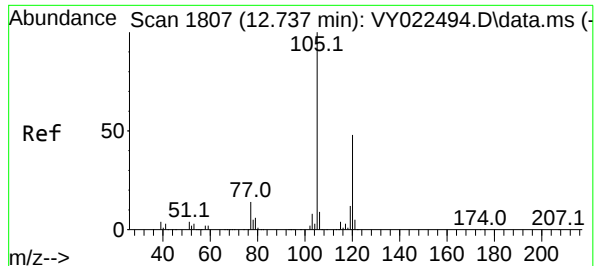
Ion Ratio Lower Upper

152 100

115 60.3 28.9 86.7

150 156.3 0.0 349.6





#80

1,3,5-Trimethylbenzene

Concen: 1.702 ug/l

RT: 12.731 min Scan# 1806

Delta R.T. -0.006 min

Lab File: VY022529.D

Acq: 03 Jun 2025 17:45

Instrument :

MSVOA_Y

ClientSampleId :

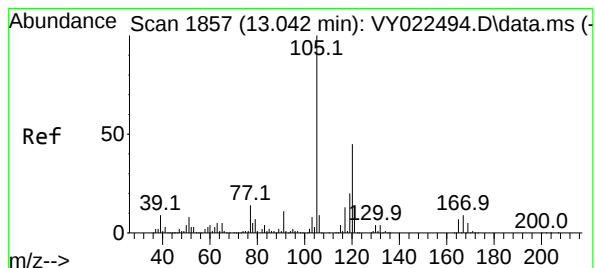
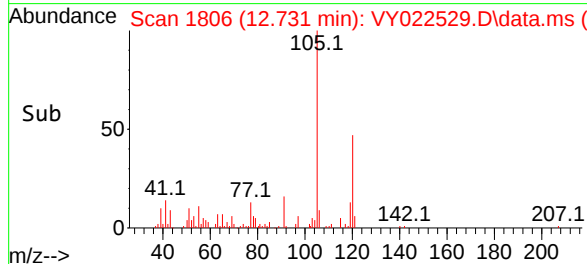
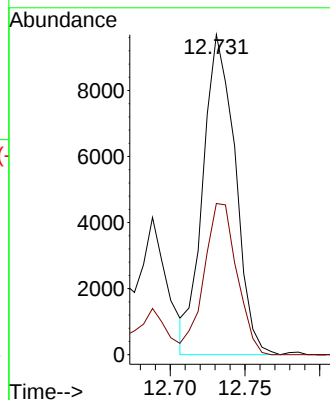
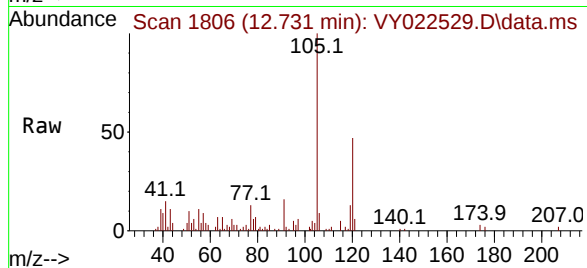
TP-26

Tgt Ion:105 Resp: 14508

Ion Ratio Lower Upper

105 100

120 48.3 24.1 72.4



#84

1,2,4-Trimethylbenzene

Concen: 1.107 ug/l

RT: 13.036 min Scan# 1856

Delta R.T. -0.006 min

Lab File: VY022529.D

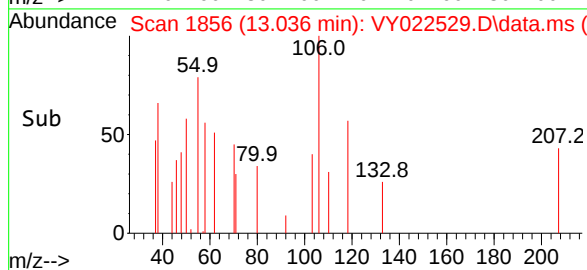
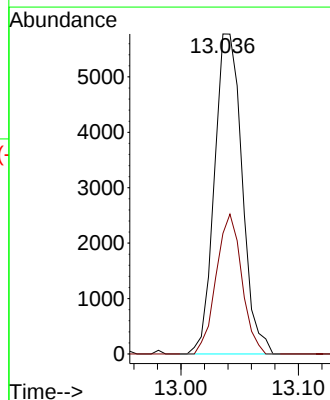
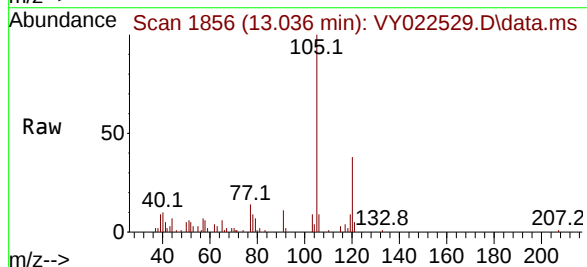
Acq: 03 Jun 2025 17:45

Tgt Ion:105 Resp: 9441

Ion Ratio Lower Upper

105 100

120 40.4 22.7 68.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022529.D
 Acq On : 03 Jun 2025 17:45
 Operator : SY/MD
 Sample : Q2176-04
 Misc : 7.58g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-26

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\82Y060225S.M

Title : SW846 8260

Signal : TIC: VY022529.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	51	62	65	rBV4	9418	31912	2.14%	0.403%
2	2.483	119	125	134	rBV3	9859	33442	2.25%	0.422%
3	3.867	341	352	361	rBV2	5702	15446	1.04%	0.195%
4	4.604	464	473	487	rBV3	16010	52346	3.51%	0.661%
5	7.634	957	970	975	rBV	178940	430991	28.94%	5.443%
6	7.707	975	982	992	rVB	327677	754404	50.65%	9.528%
7	8.061	1031	1040	1052	rBV2	182412	405180	27.20%	5.117%
8	8.610	1121	1130	1144	rBV	549861	1080580	72.55%	13.648%
9	9.103	1199	1211	1217	rBV4	13340	34879	2.34%	0.441%
10	9.670	1299	1304	1311	rVB3	6668	15797	1.06%	0.200%
11	10.103	1367	1375	1383	rBV	883290	1489373	100.00%	18.811%
12	10.164	1383	1385	1392	rVB	13365	19704	1.32%	0.249%
13	10.292	1398	1406	1413	rVB7	6804	16532	1.11%	0.209%
14	11.213	1552	1557	1567	rVB9	6435	16702	1.12%	0.211%
15	11.414	1582	1590	1601	rBV	741616	1200374	80.60%	15.161%
16	11.512	1601	1606	1616	rVV2	13190	26346	1.77%	0.333%
17	11.621	1616	1624	1636	rBV3	17625	48430	3.25%	0.612%
18	11.950	1667	1678	1685	rBV3	22908	47988	3.22%	0.606%
19	12.255	1722	1728	1735	rBV3	18393	29797	2.00%	0.376%
20	12.402	1745	1752	1762	rBV	534362	829497	55.69%	10.476%
21	12.652	1788	1793	1796	rBV4	11849	18806	1.26%	0.238%
22	12.731	1802	1806	1812	rVB2	37748	57778	3.88%	0.730%
23	12.895	1825	1833	1838	rBV	20059	35233	2.37%	0.445%
24	13.042	1851	1857	1865	rBV3	18211	38229	2.57%	0.483%
25	13.340	1900	1906	1917	rVB	573072	915961	61.50%	11.568%
26	13.542	1934	1939	1942	rBV3	12014	17565	1.18%	0.222%
27	13.584	1942	1946	1954	rVB2	15617	28265	1.90%	0.357%
28	13.670	1954	1960	1964	rBV6	8416	16068	1.08%	0.203%
29	13.883	1990	1995	2001	rVB2	85869	133111	8.94%	1.681%
30	13.993	2008	2013	2019	rBV2	10684	16311	1.10%	0.206%
31	14.249	2052	2055	2059	rVB2	10656	15035	1.01%	0.190%
32	14.596	2104	2112	2117	rBV6	13775	28305	1.90%	0.357%
33	14.852	2149	2154	2166	rVB6	6528	17334	1.16%	0.219%

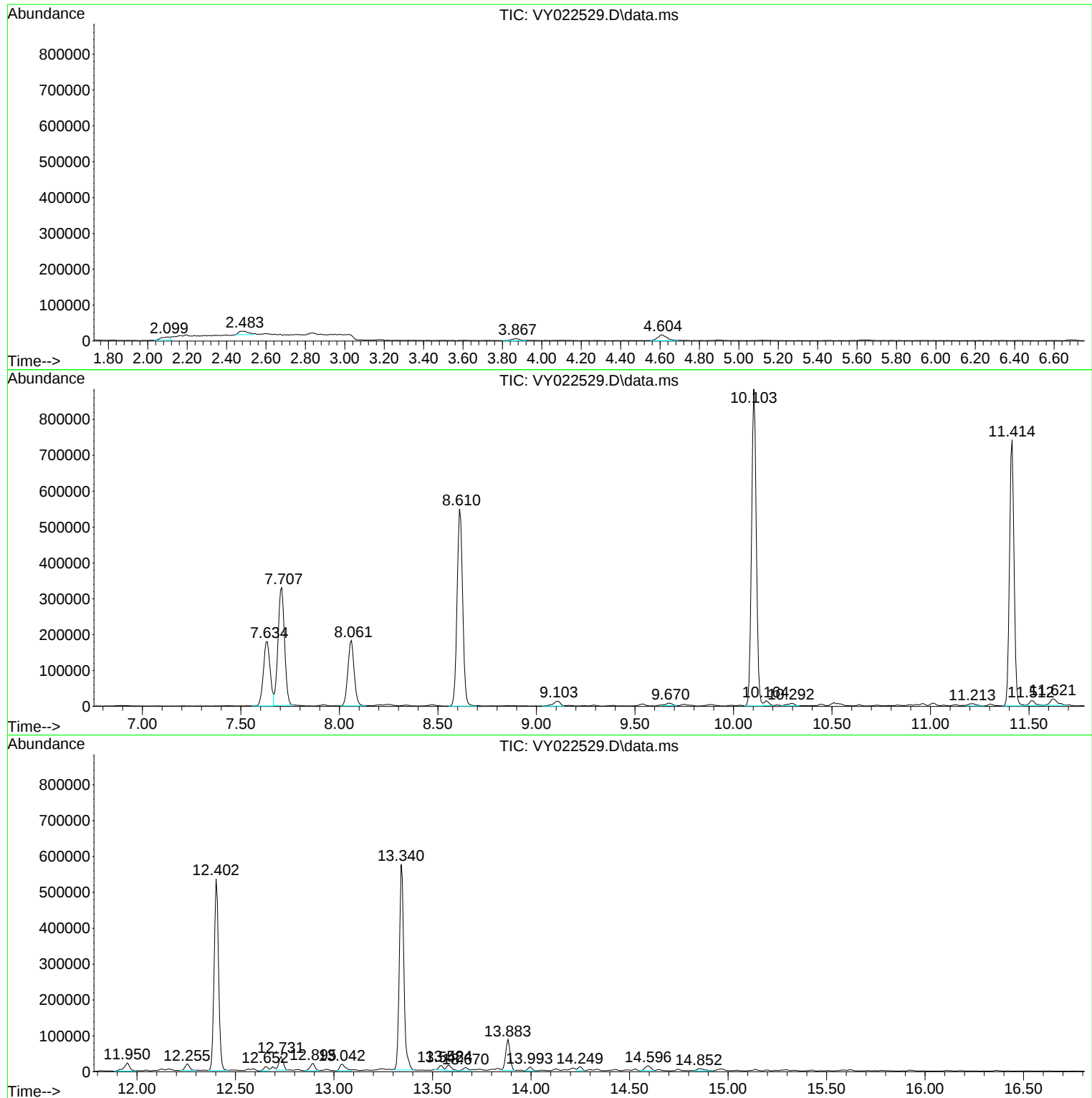
Sum of corrected areas: 7917721

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022529.D
Acq On : 03 Jun 2025 17:45
Operator : SY/MD
Sample : Q2176-04
Misc : 7.58g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-26

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022529.D
Acq On : 03 Jun 2025 17:45
Operator : SY/MD
Sample : Q2176-04
Misc : 7.58g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-26

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022529.D
Acq On : 03 Jun 2025 17:45
Operator : SY/MD
Sample : Q2176-04
Misc : 7.58g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-26

A

B

C

D

E

F

G

H

I

J

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.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--			
					#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022530.D
Acq On : 03 Jun 2025 18:09
Operator : SY/MD
Sample : Q2176-05
Misc : 5.85g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-28

Quant Time: Jun 04 04:16:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	287774	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	510573	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	400841	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	141621	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	147241	45.747	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.500%
35) Dibromofluoromethane	7.634	113	148611	48.765	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.520%
50) Toluene-d8	10.103	98	614930	49.938	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.880%
62) 4-Bromofluorobenzene	12.401	95	149582	40.770	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	81.540%

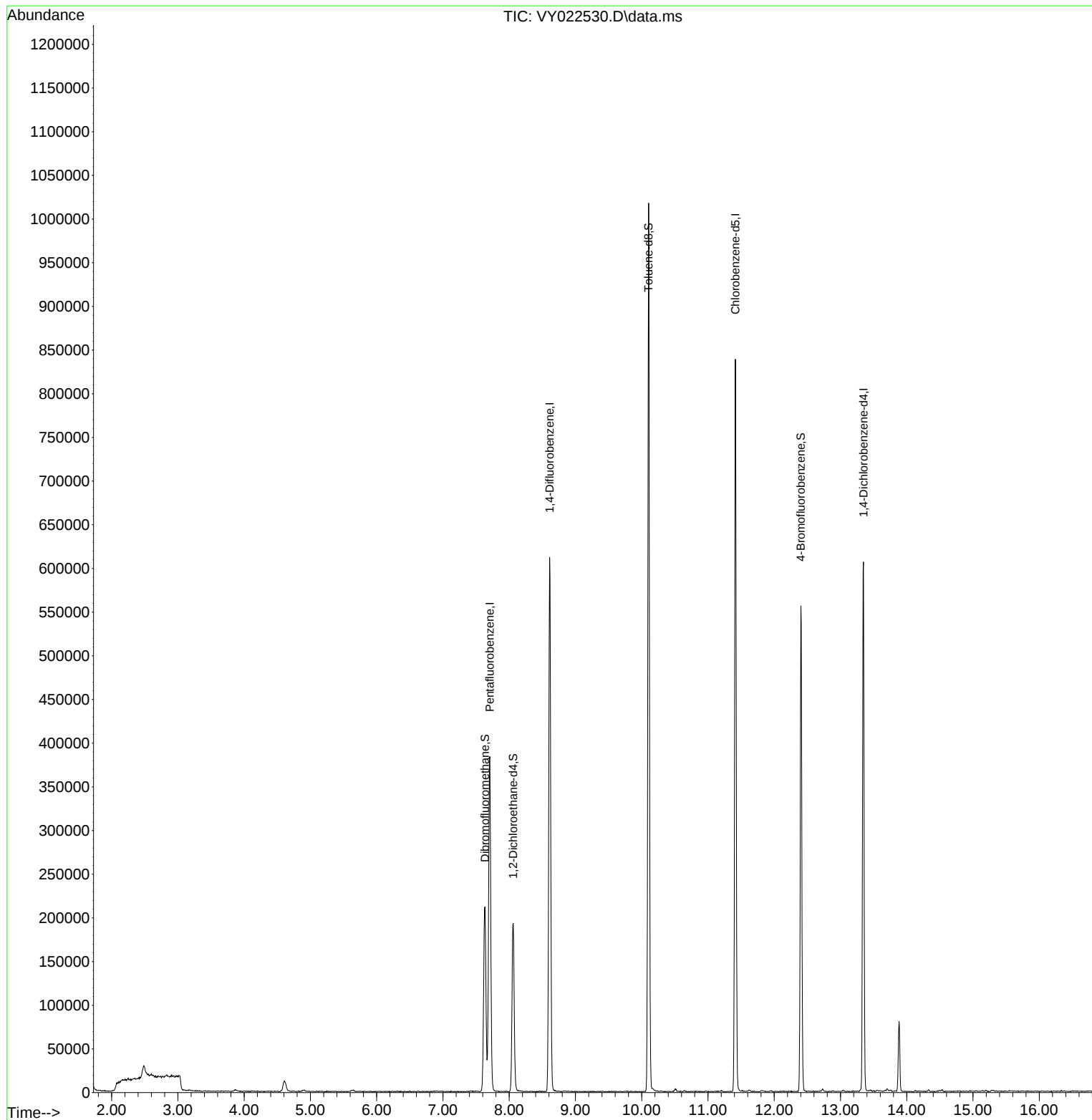
Target Compounds	Qvalue

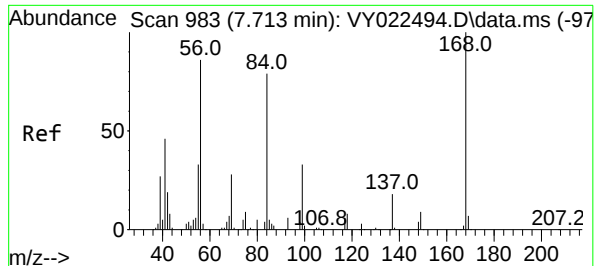
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022530.D
Acq On : 03 Jun 2025 18:09
Operator : SY/MD
Sample : Q2176-05
Misc : 5.85g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-28

Quant Time: Jun 04 04:16:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

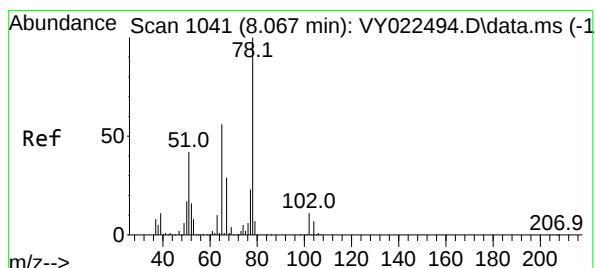
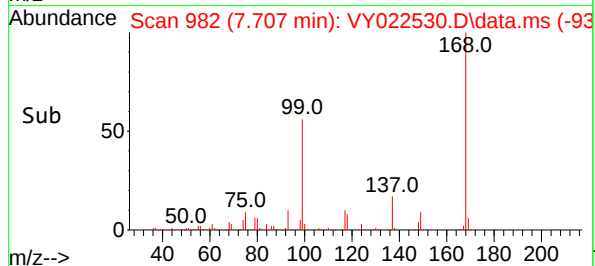
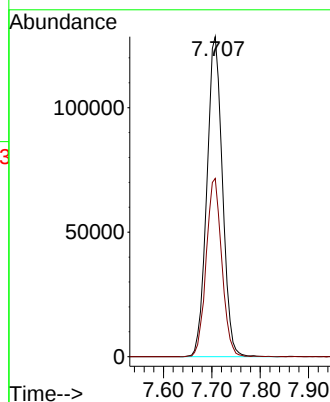
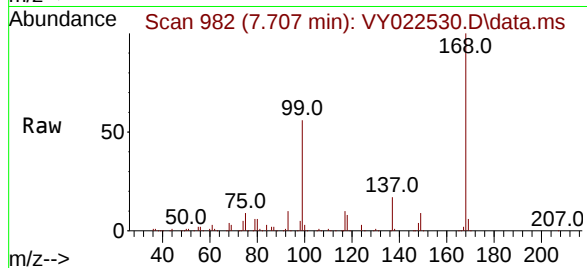




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022530.D
Acq: 03 Jun 2025 18:09

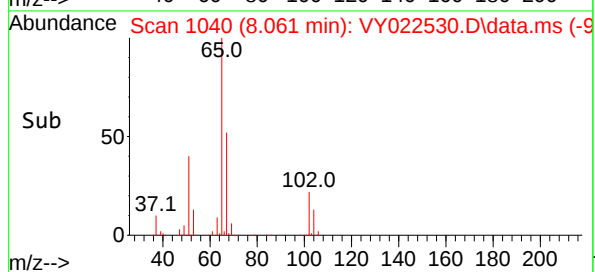
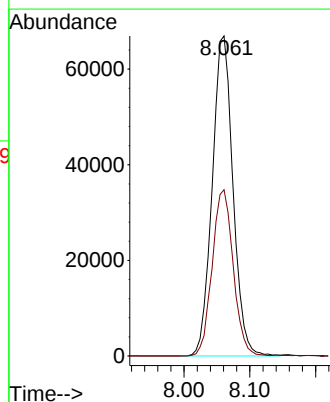
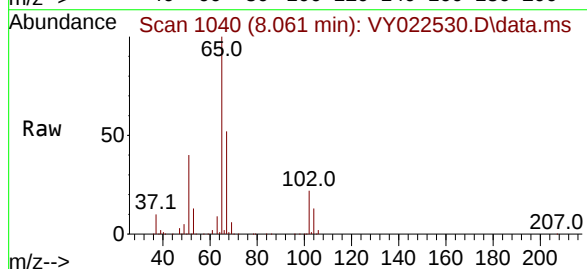
Instrument :
MSVOA_Y
ClientSampleId :
TP-28

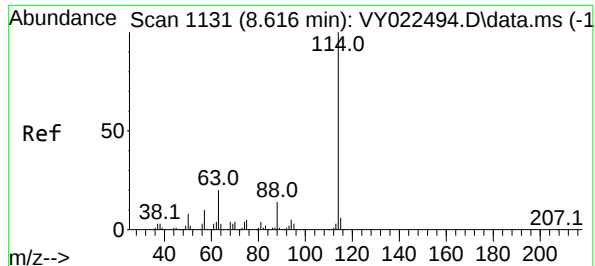
Tgt Ion:168 Resp: 287774
Ion Ratio Lower Upper
168 100
99 55.7 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 45.747 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022530.D
Acq: 03 Jun 2025 18:09

Tgt Ion: 65 Resp: 147241
Ion Ratio Lower Upper
65 100
67 52.6 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY022530.D

Acq: 03 Jun 2025 18:09

Instrument :

MSVOA_Y

ClientSampleId :

TP-28

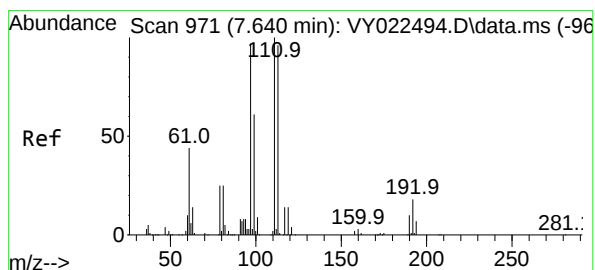
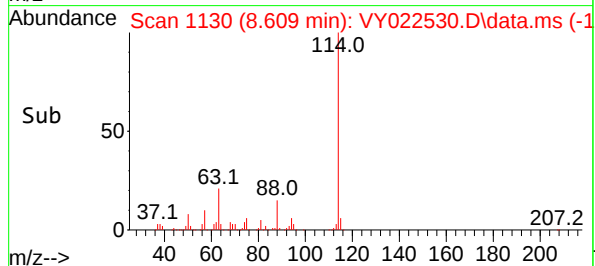
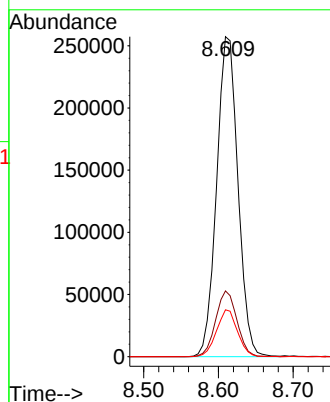
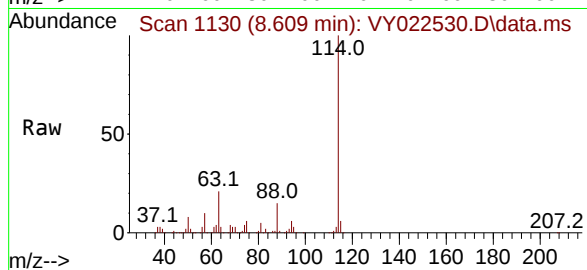
Tgt Ion:114 Resp: 510573

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 14.6 0.0 27.8



#35

Dibromofluoromethane

Concen: 48.765 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022530.D

Acq: 03 Jun 2025 18:09

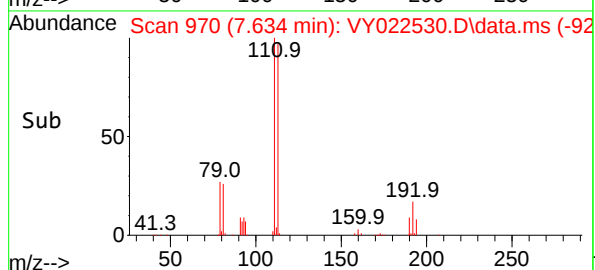
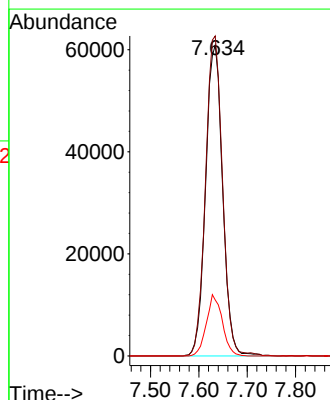
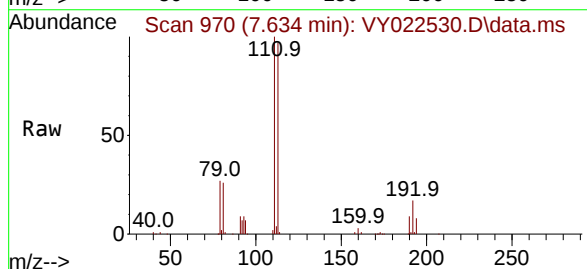
Tgt Ion:113 Resp: 148611

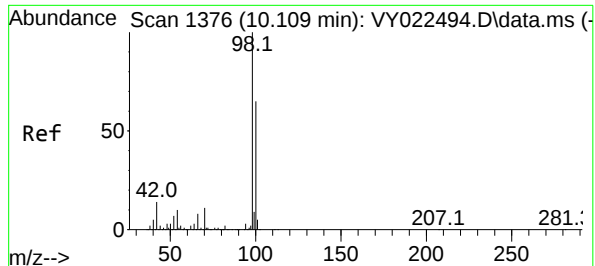
Ion Ratio Lower Upper

113 100

111 103.0 81.1 121.7

192 18.5 14.2 21.2





#50

Toluene-d8

Concen: 49.938 ug/l

RT: 10.103 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022530.D

Acq: 03 Jun 2025 18:09

Instrument :

MSVOA_Y

ClientSampleId :

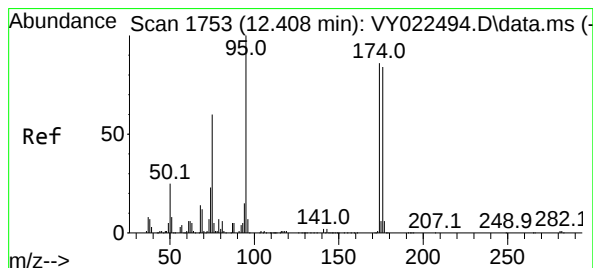
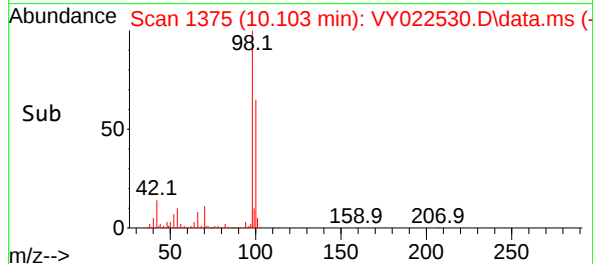
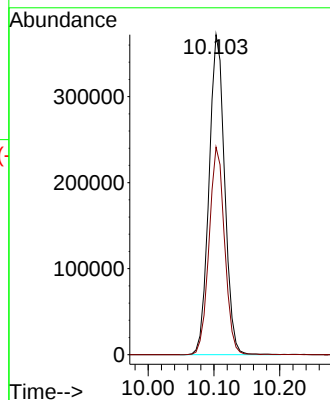
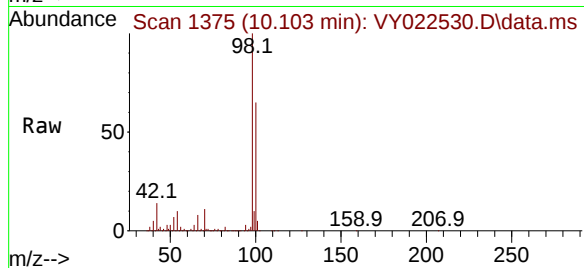
TP-28

Tgt Ion: 98 Resp: 614930

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 40.770 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022530.D

Acq: 03 Jun 2025 18:09

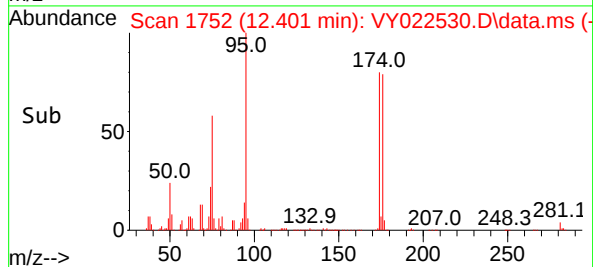
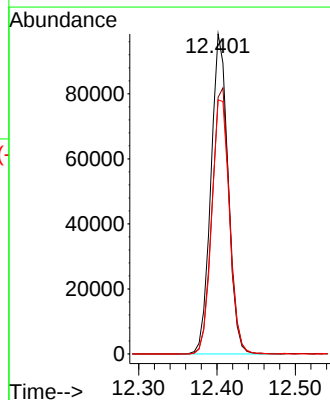
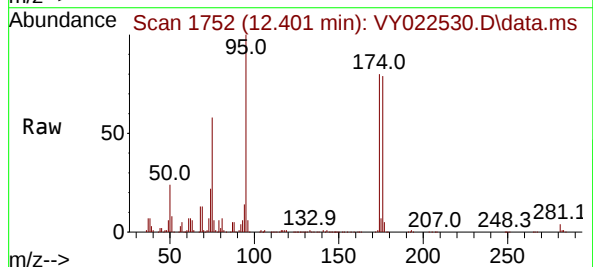
Tgt Ion: 95 Resp: 149582

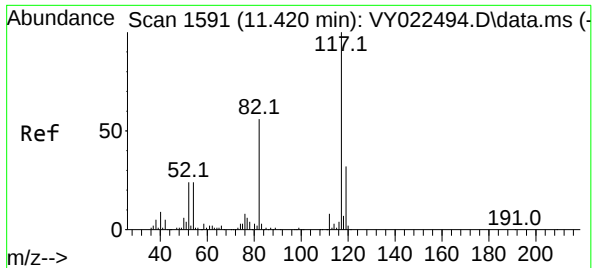
Ion Ratio Lower Upper

95 100

174 85.1 0.0 170.0

176 82.0 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 117

Delta R.T. -0.006 min

Lab File: VY022530.D

Acq: 03 Jun 2025 18:09

Instrument :

MSVOA_Y

ClientSampleId :

TP-28

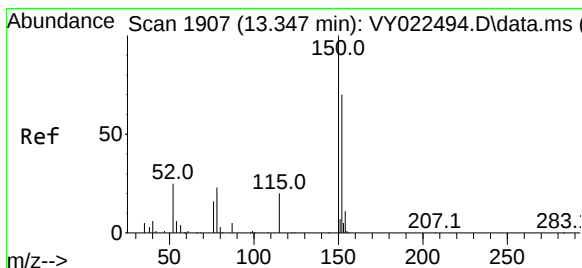
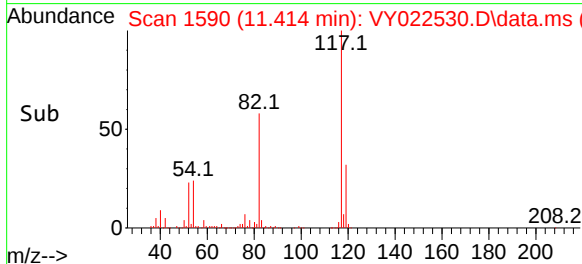
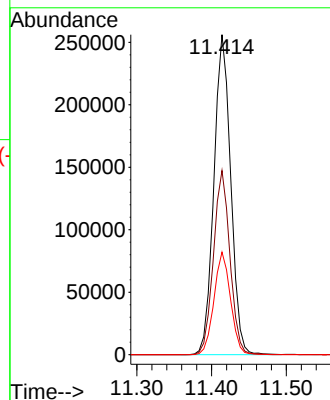
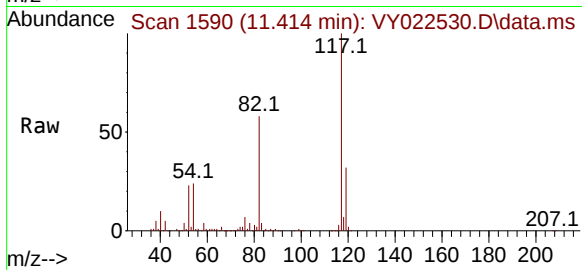
Tgt Ion:117 Resp: 400841

Ion Ratio Lower Upper

117 100

82 57.5 44.6 66.8

119 32.1 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022530.D

Acq: 03 Jun 2025 18:09

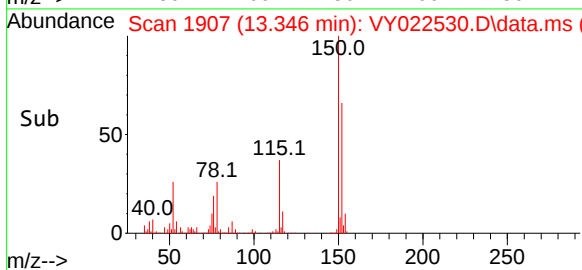
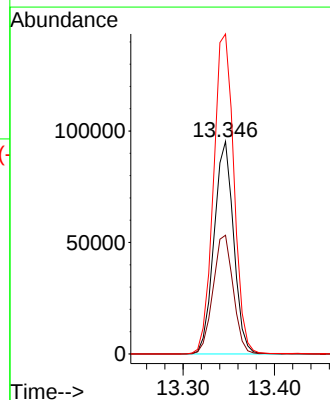
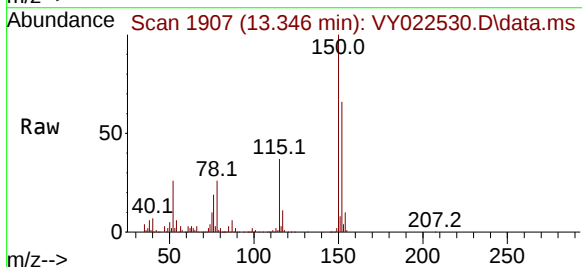
Tgt Ion:152 Resp: 141621

Ion Ratio Lower Upper

152 100

115 57.6 28.9 86.7

150 157.6 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022530.D
Acq On : 03 Jun 2025 18:09
Operator : SY/MD
Sample : Q2176-05
Misc : 5.85g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-28

A
B
C
D
E
F
G
H
I
J

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\82Y060225S.M
Title : SW846 8260

Signal : TIC: VY022530.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	51	60	62	rBV2	9256	22469	1.35%	0.276%
2	2.482	118	125	135	rBV4	13964	48405	2.90%	0.595%
3	4.610	460	474	486	rBV2	12516	44083	2.64%	0.542%
4	7.634	957	970	975	rBV	211679	512279	30.67%	6.295%
5	7.707	975	982	995	rVB	383013	877470	52.54%	10.782%
6	8.061	1029	1040	1052	rBV	193080	447412	26.79%	5.498%
7	8.609	1121	1130	1148	rBV	611638	1220164	73.06%	14.993%
8	10.103	1367	1375	1383	rBV	1017219	1670073	100.00%	20.521%
9	11.414	1580	1590	1605	rBV	838377	1319183	78.99%	16.209%
10	12.401	1745	1752	1764	rBV	556205	904000	54.13%	11.108%
11	13.346	1896	1907	1916	rBV	606208	944175	56.53%	11.602%
12	13.883	1989	1995	2002	rBV2	80166	128628	7.70%	1.581%

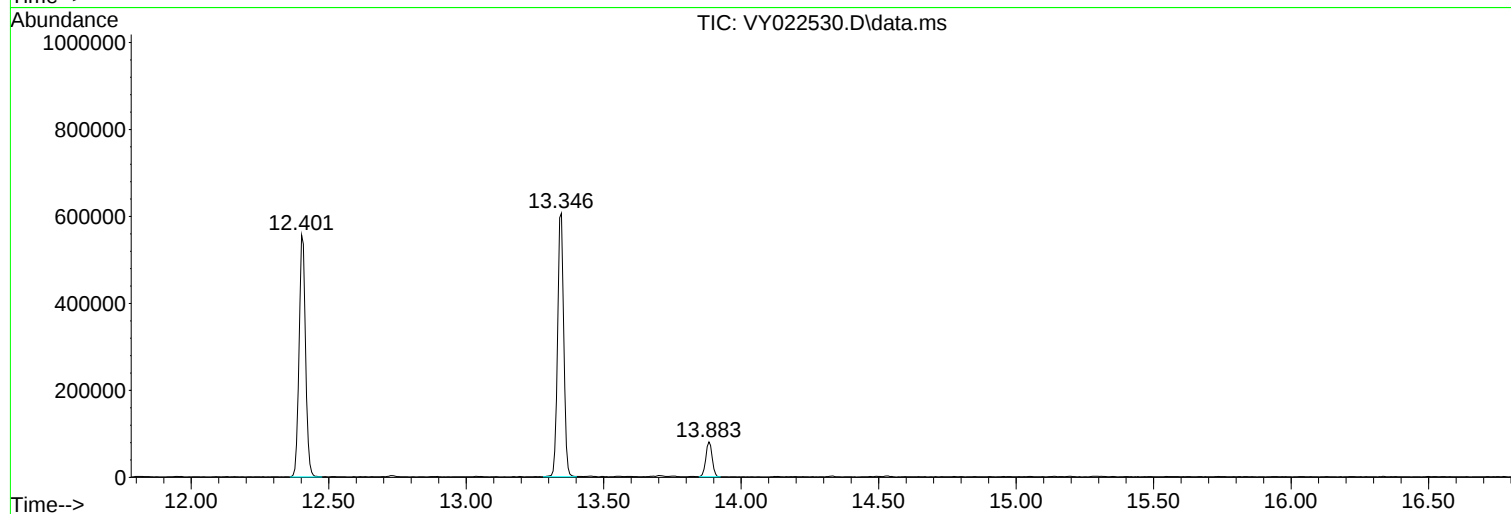
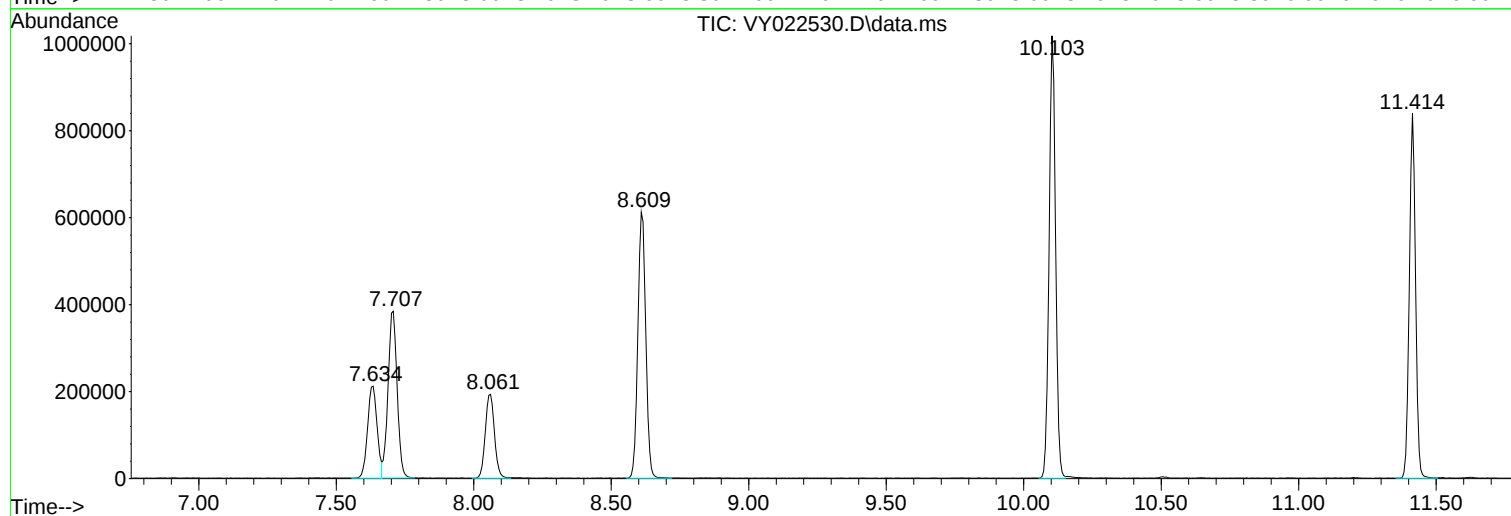
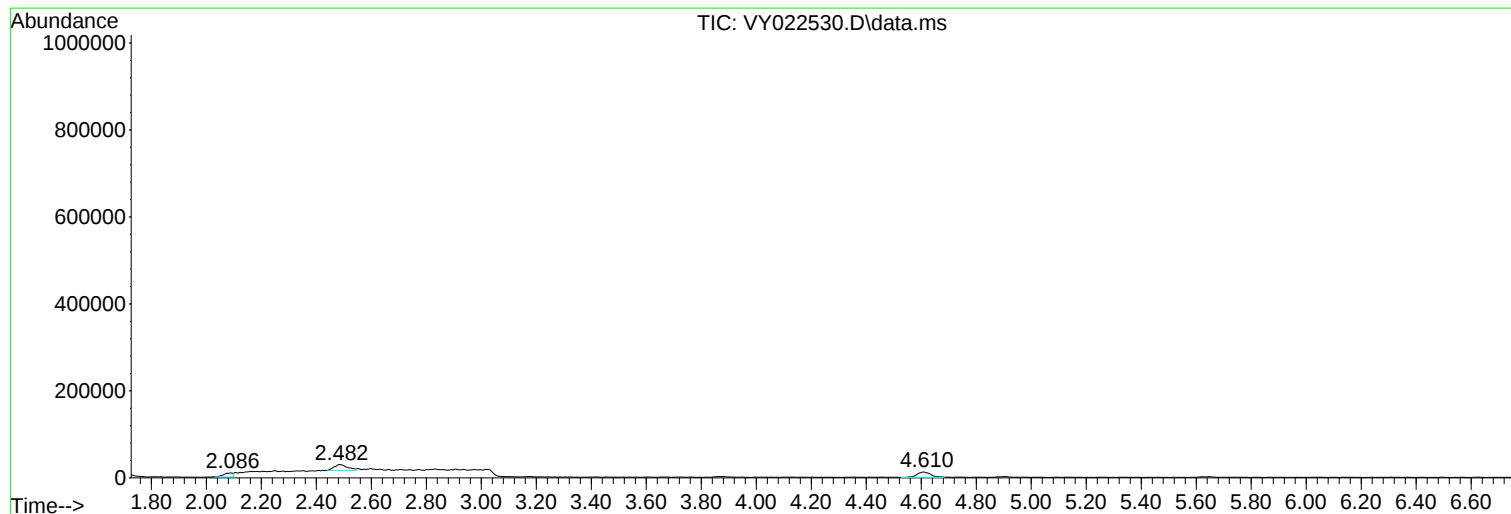
Sum of corrected areas: 8138341

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022530.D
Acq On : 03 Jun 2025 18:09
Operator : SY/MD
Sample : Q2176-05
Misc : 5.85g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-28

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022530.D
Acq On : 03 Jun 2025 18:09
Operator : SY/MD
Sample : Q2176-05
Misc : 5.85g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-28

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022530.D
Acq On : 03 Jun 2025 18:09
Operator : SY/MD
Sample : Q2176-05
Misc : 5.85g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-28

A

B

C

D

E

F

G

H

I

J

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.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--
				#	RT Resp Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022531.D
 Acq On : 03 Jun 2025 18:32
 Operator : SY/MD
 Sample : Q2176-06
 Misc : 6.48g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-27

A
B
C
D
E
F
G
H
I
J

Quant Time: Jun 04 04:16:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	244909	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	453751	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	362219	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	131513	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	137676	50.262	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 100.520%	
35) Dibromofluoromethane	7.634	113	137051	50.603	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.200%	
50) Toluene-d8	10.103	98	544497	49.755	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.520%	
62) 4-Bromofluorobenzene	12.401	95	137400	42.140	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 84.280%	

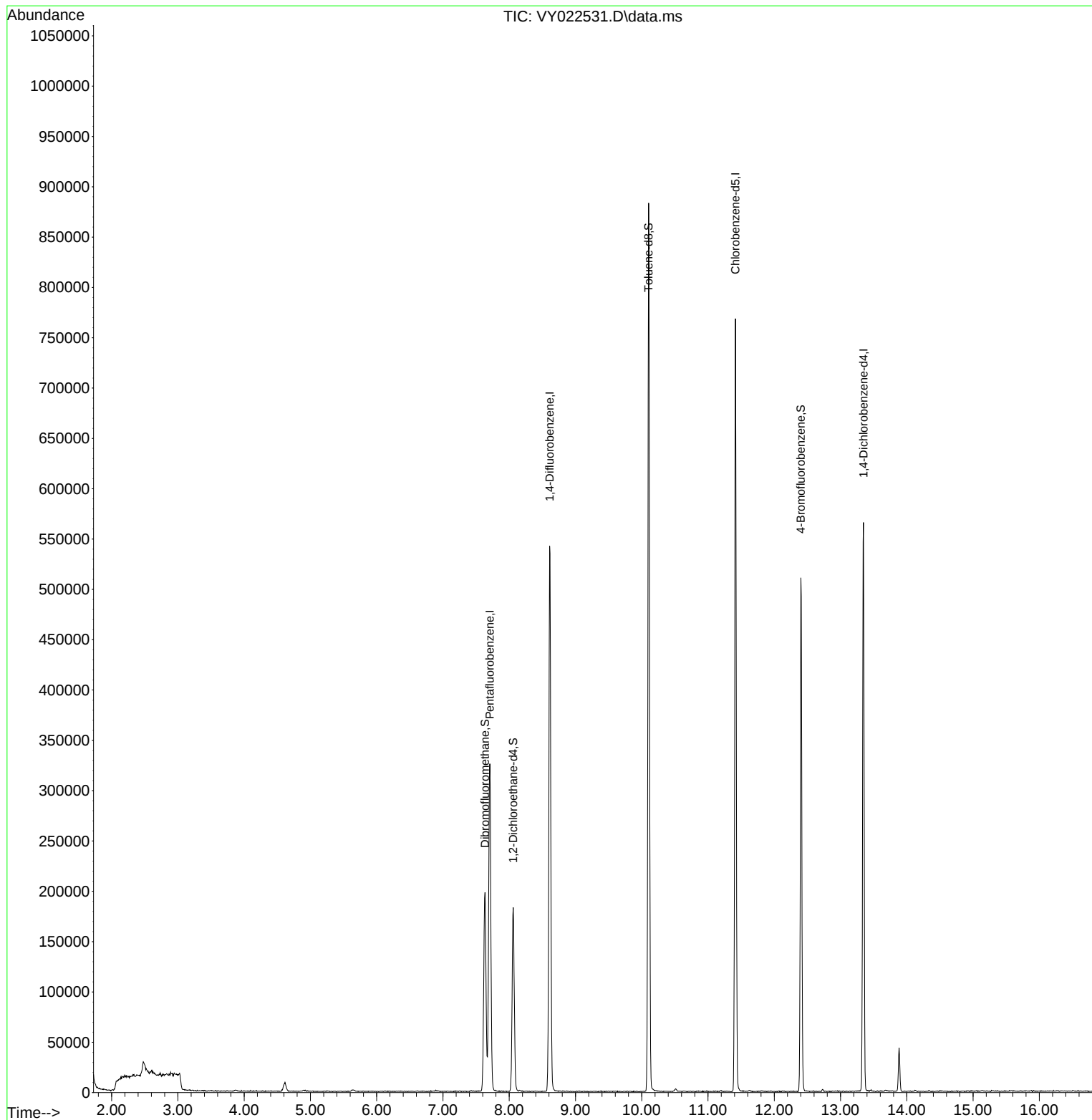
Target Compounds	Qvalue

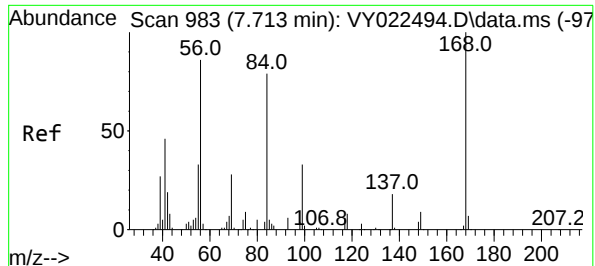
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022531.D
Acq On : 03 Jun 2025 18:32
Operator : SY/MD
Sample : Q2176-06
Misc : 6.48g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-27

Quant Time: Jun 04 04:16:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

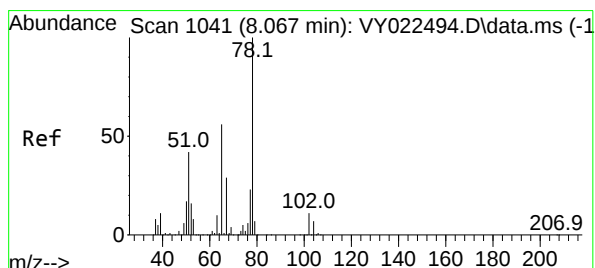
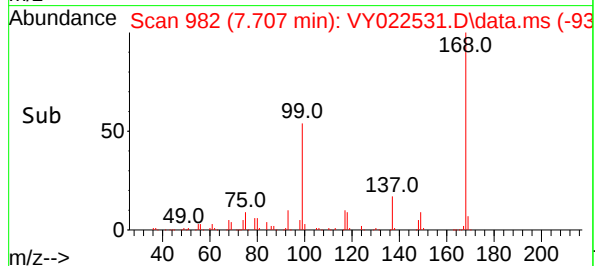
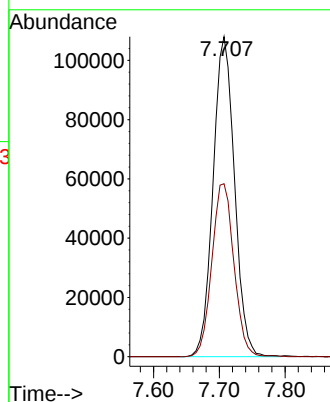
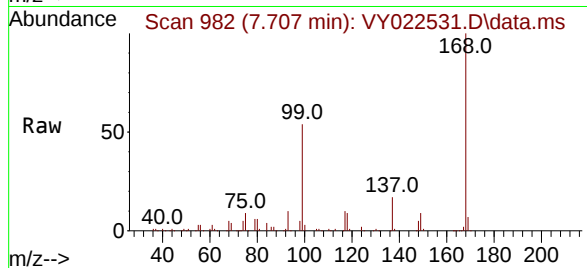




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022531.D
Acq: 03 Jun 2025 18:32

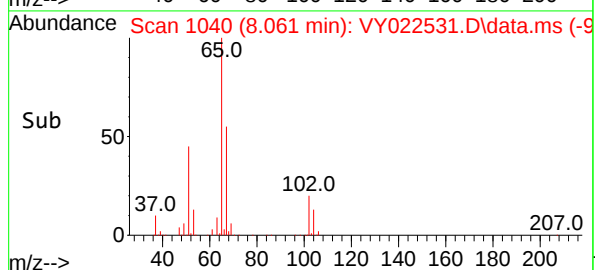
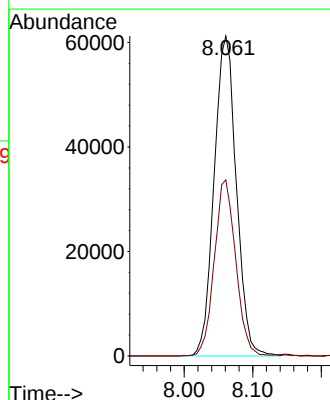
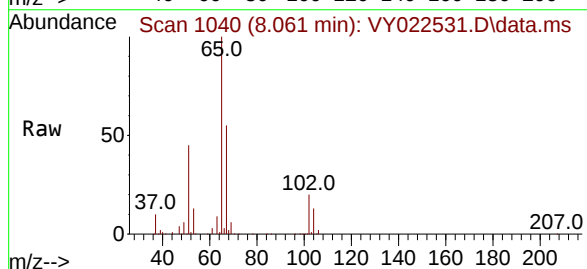
Instrument :
MSVOA_Y
ClientSampleId :
TP-27

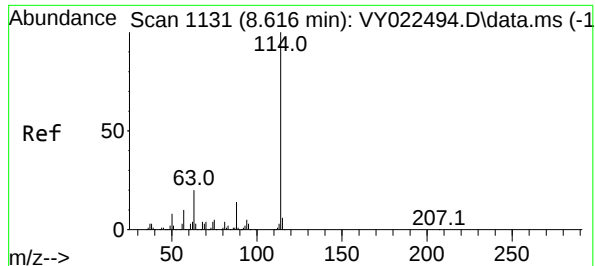
Tgt Ion:168 Resp: 244909
Ion Ratio Lower Upper
168 100
99 54.1 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 50.262 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022531.D
Acq: 03 Jun 2025 18:32

Tgt Ion: 65 Resp: 137676
Ion Ratio Lower Upper
65 100
67 53.1 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY022531.D

Acq: 03 Jun 2025 18:32

Instrument :

MSVOA_Y

ClientSampleId :

TP-27

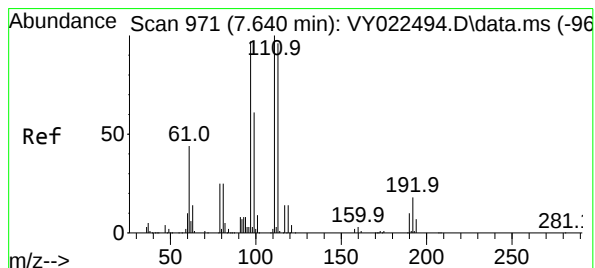
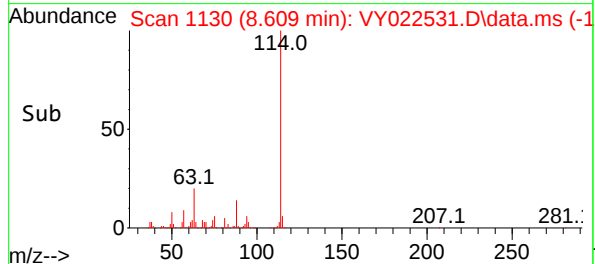
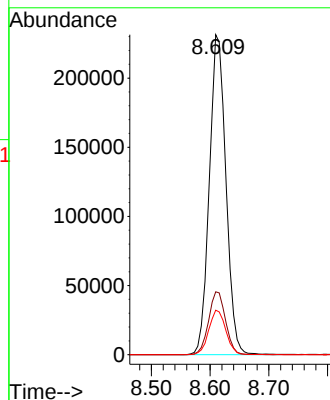
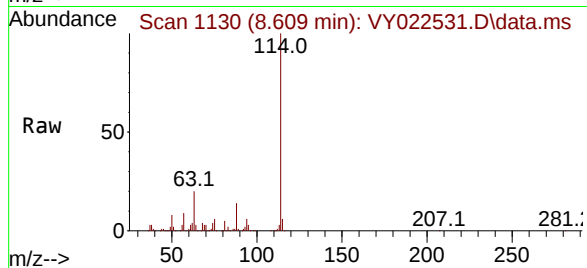
Tgt Ion:114 Resp: 453751

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.8

88 13.9 0.0 27.8



#35

Dibromofluoromethane

Concen: 50.603 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022531.D

Acq: 03 Jun 2025 18:32

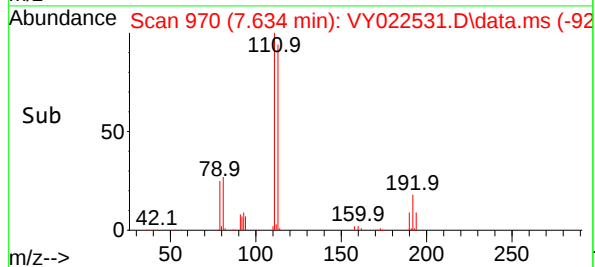
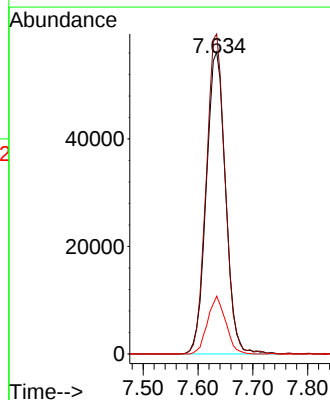
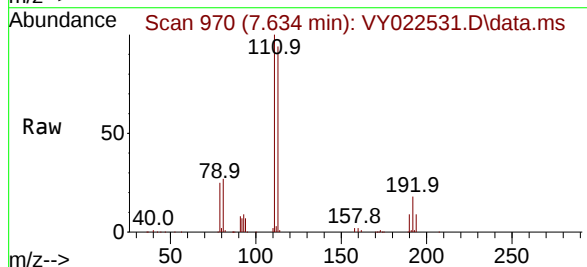
Tgt Ion:113 Resp: 137051

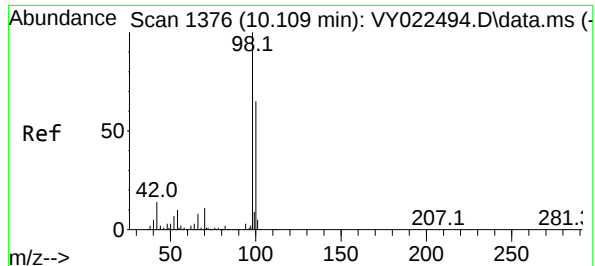
Ion Ratio Lower Upper

113 100

111 104.0 81.1 121.7

192 18.0 14.2 21.2





#50

Toluene-d8

Concen: 49.755 ug/l

RT: 10.103 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY022531.D

Acq: 03 Jun 2025 18:32

Instrument :

MSVOA_Y

ClientSampleId :

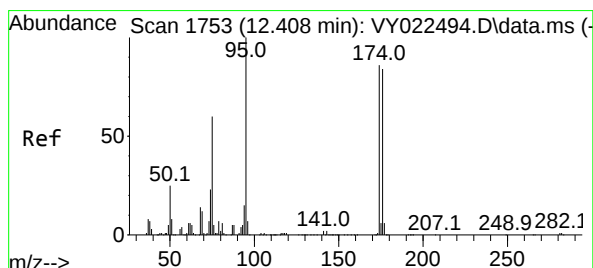
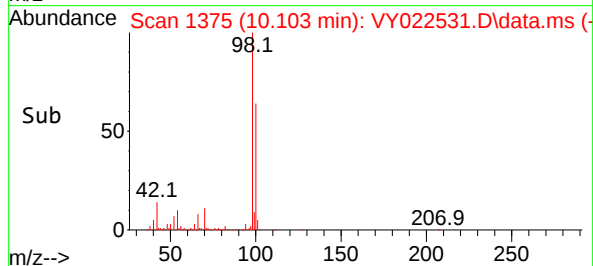
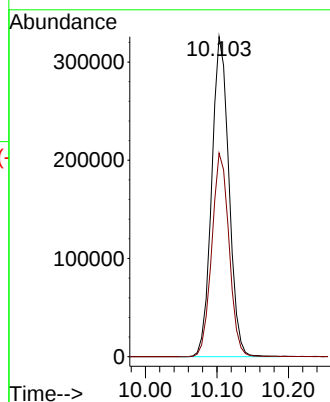
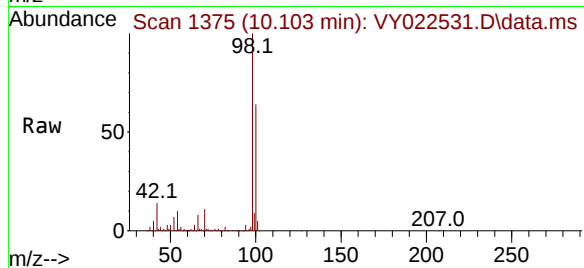
TP-27

Tgt Ion: 98 Resp: 544497

Ion Ratio Lower Upper

98 100

100 63.7 51.4 77.0



#62

4-Bromofluorobenzene

Concen: 42.140 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022531.D

Acq: 03 Jun 2025 18:32

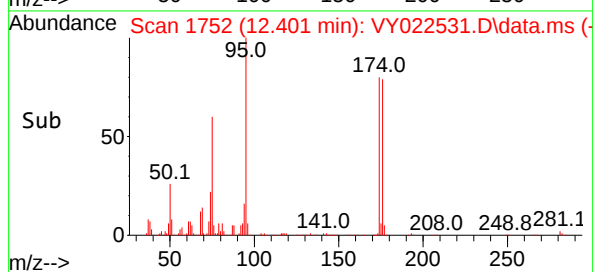
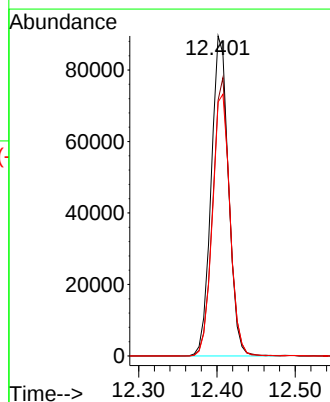
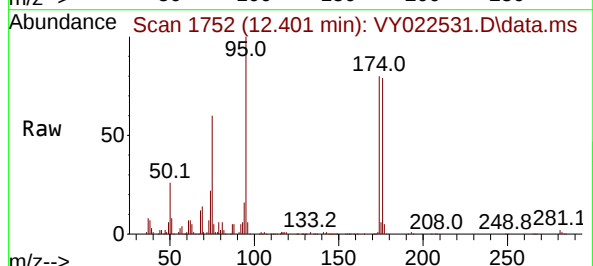
Tgt Ion: 95 Resp: 137400

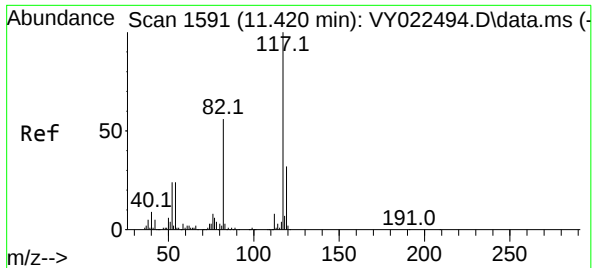
Ion Ratio Lower Upper

95 100

174 84.9 0.0 170.0

176 82.9 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022531.D

Acq: 03 Jun 2025 18:32

Instrument :

MSVOA_Y

ClientSampleId :

TP-27

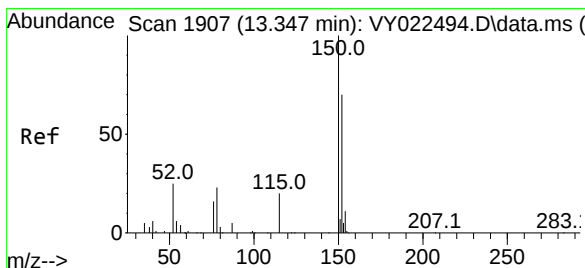
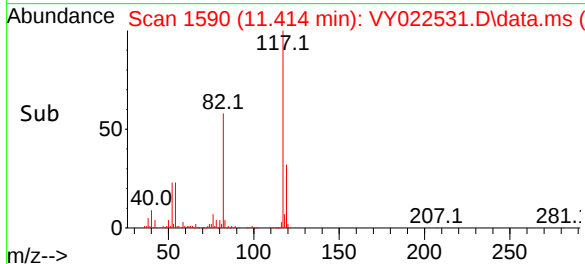
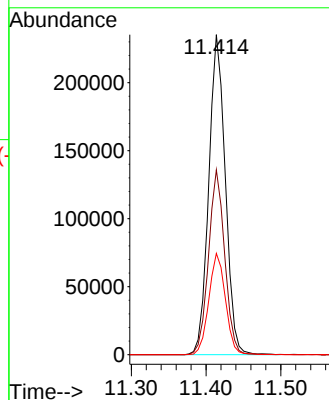
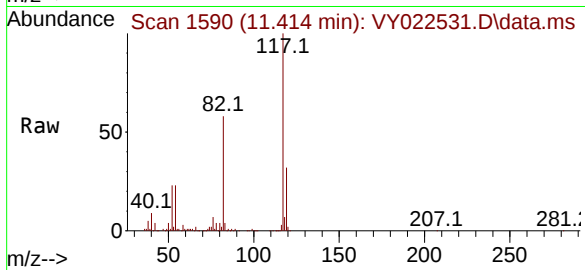
Tgt Ion:117 Resp: 362219

Ion Ratio Lower Upper

117 100

82 57.7 44.6 66.8

119 31.6 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022531.D

Acq: 03 Jun 2025 18:32

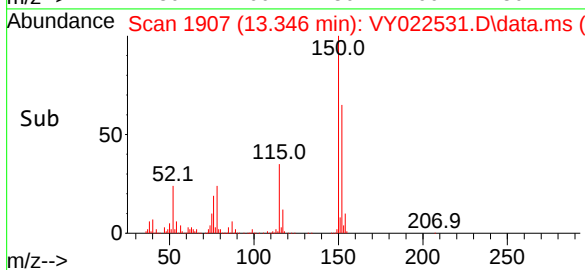
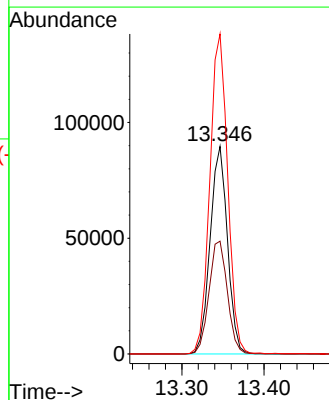
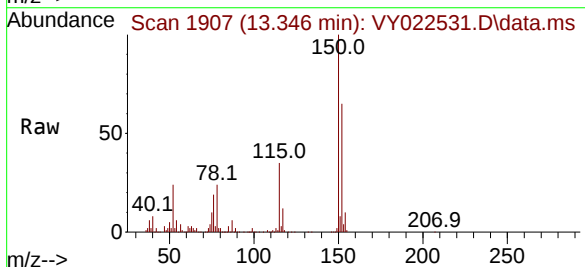
Tgt Ion:152 Resp: 131513

Ion Ratio Lower Upper

152 100

115 57.6 28.9 86.7

150 158.3 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022531.D
 Acq On : 03 Jun 2025 18:32
 Operator : SY/MD
 Sample : Q2176-06
 Misc : 6.48g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-27

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\82Y060225S.M

Title : SW846 8260

Signal : TIC: VY022531.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	50	58	59	rBV2	9210	15903	1.08%	0.221%
2	2.476	120	124	130	rBV3	9710	22404	1.52%	0.311%
3	4.616	468	475	483	rVB6	8886	24116	1.63%	0.335%
4	7.634	958	970	976	rBV	197647	481233	32.56%	6.683%
5	7.707	976	982	993	rVB	324768	740676	50.11%	10.287%
6	8.061	1030	1040	1053	rBV2	182748	412966	27.94%	5.735%
7	8.609	1121	1130	1143	rBV	541674	1077233	72.89%	14.961%
8	10.103	1368	1375	1389	rBV	882334	1477982	100.00%	20.526%
9	11.414	1582	1590	1603	rBV	767898	1195374	80.88%	16.601%
10	12.401	1744	1752	1761	rBV	510805	811496	54.91%	11.270%
11	13.346	1898	1907	1916	rBV	565179	872207	59.01%	12.113%
12	13.883	1986	1995	2004	rVB	43520	68858	4.66%	0.956%

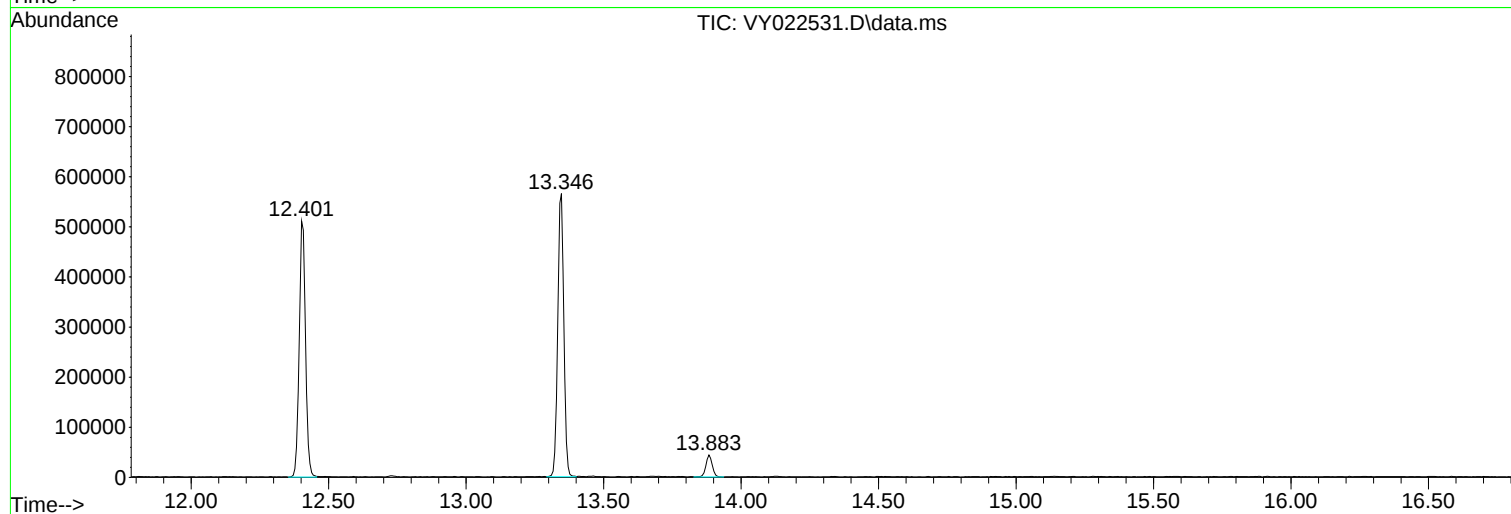
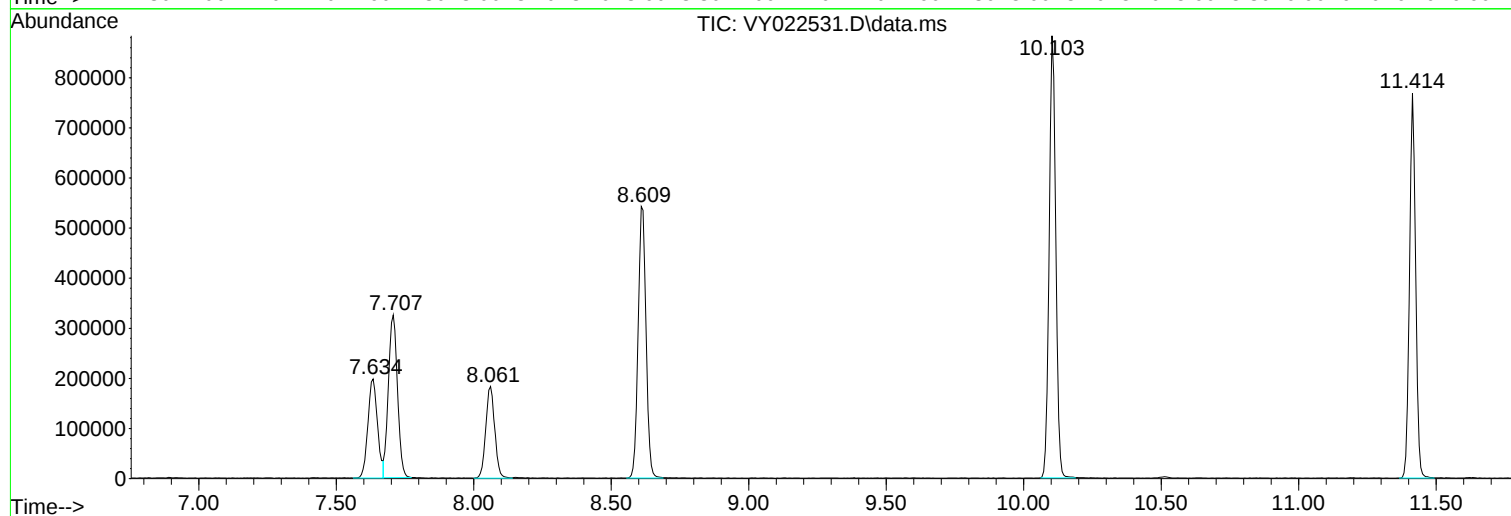
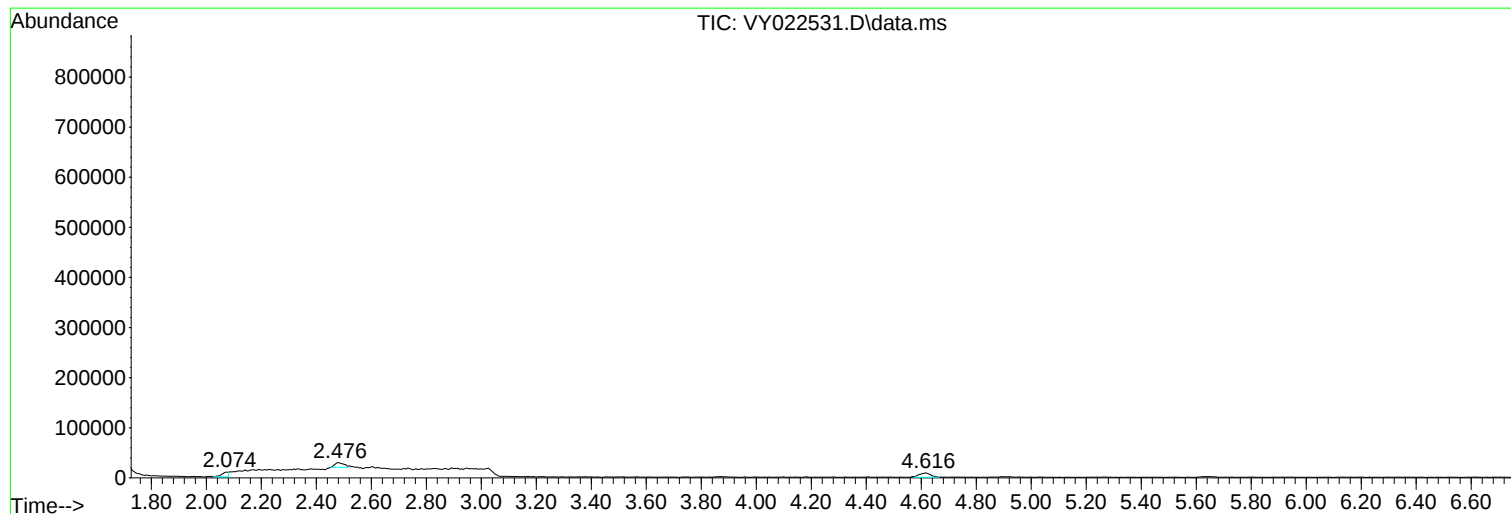
Sum of corrected areas: 7200448

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022531.D
Acq On : 03 Jun 2025 18:32
Operator : SY/MD
Sample : Q2176-06
Misc : 6.48g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-27

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022531.D
Acq On : 03 Jun 2025 18:32
Operator : SY/MD
Sample : Q2176-06
Misc : 6.48g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-27

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022531.D
Acq On : 03 Jun 2025 18:32
Operator : SY/MD
Sample : Q2176-06
Misc : 6.48g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-27

A

B

C

D

E

F

G

H

I

J

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
------------------	----	---------	-------	----------	---	----	------	------

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022532.D
 Acq On : 03 Jun 2025 18:56
 Operator : SY/MD
 Sample : Q2176-07
 Misc : 5.50g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-31

A
B
C
D
E
F
G
H
I
J

Quant Time: Jun 04 04:17:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

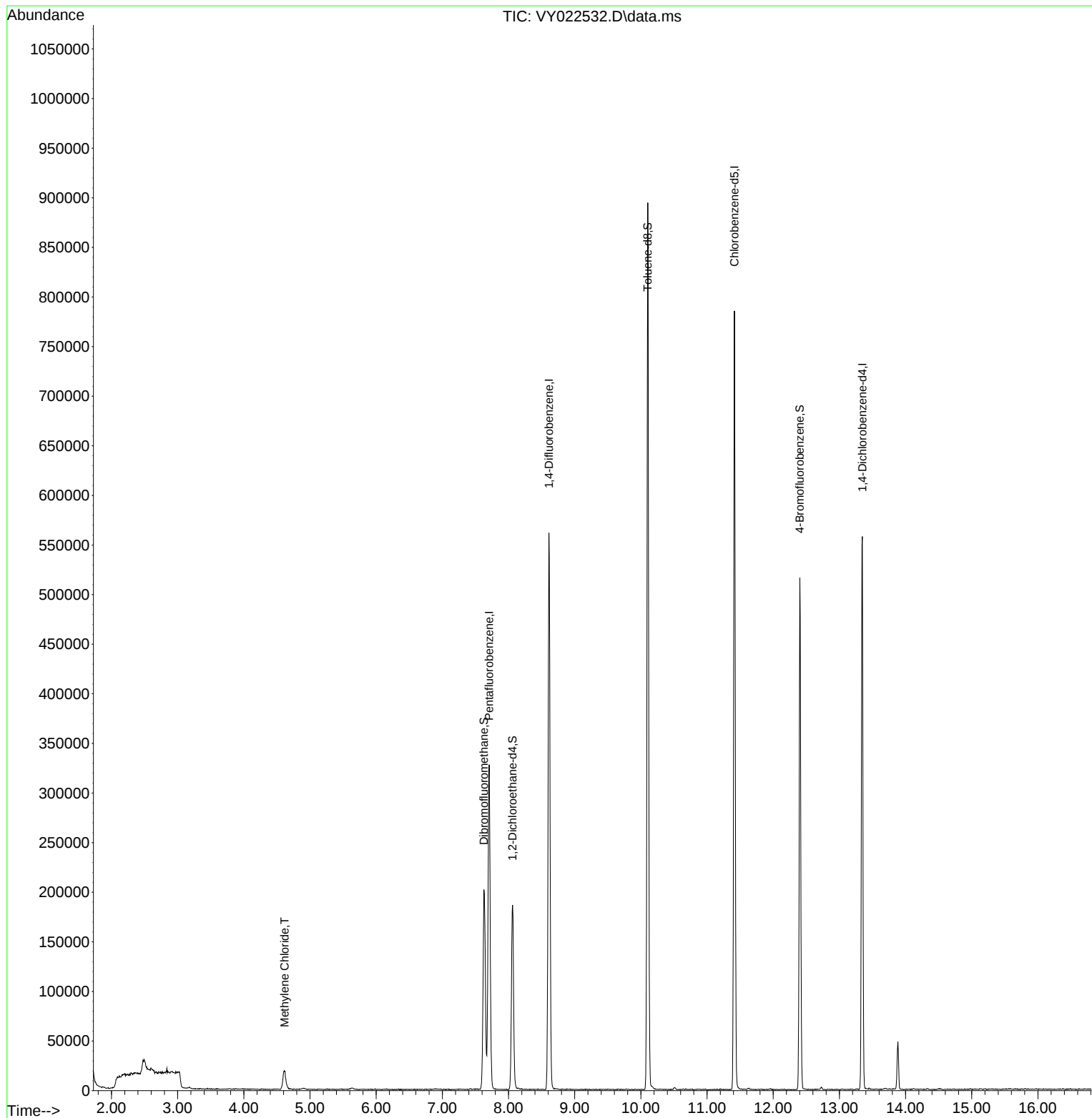
Internal Standards						
1) Pentafluorobenzene	7.707	168	242608	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	461777	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	369180	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	131849	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	141185	52.032	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	104.060%
35) Dibromofluoromethane	7.628	113	140282	50.896	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.800%
50) Toluene-d8	10.103	98	553890	49.734	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.460%
62) 4-Bromofluorobenzene	12.401	95	137293	41.375	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	82.740%
Target Compounds						
					Qvalue	
20) Methylene Chloride	4.616	84	13883	4.435	ug/l	93

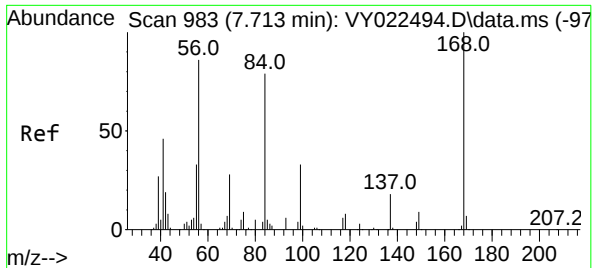
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022532.D
Acq On : 03 Jun 2025 18:56
Operator : SY/MD
Sample : Q2176-07
Misc : 5.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-31

Quant Time: Jun 04 04:17:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

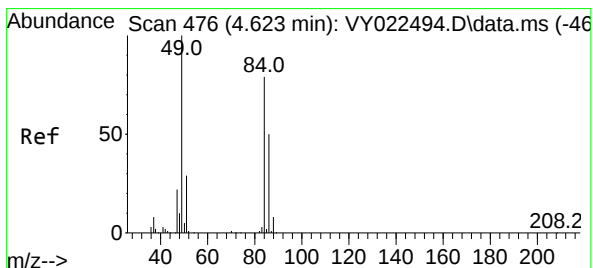
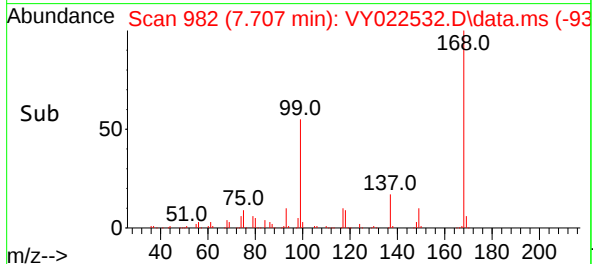
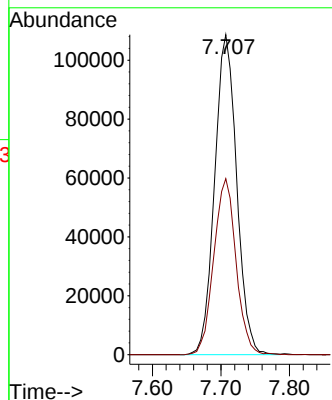
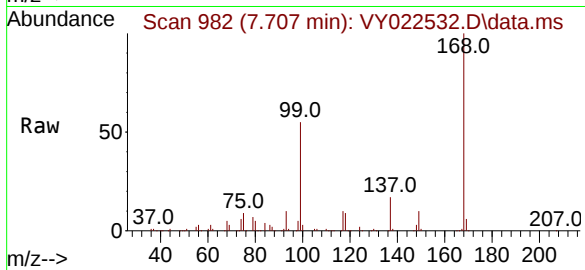




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022532.D
Acq: 03 Jun 2025 18:56

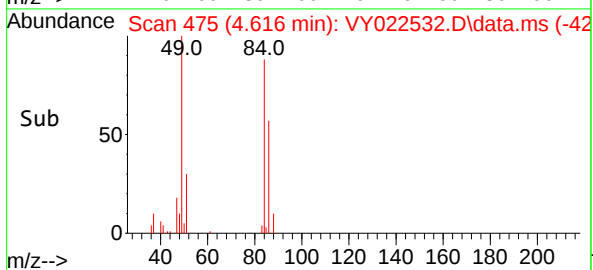
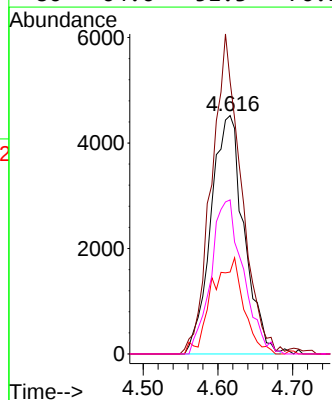
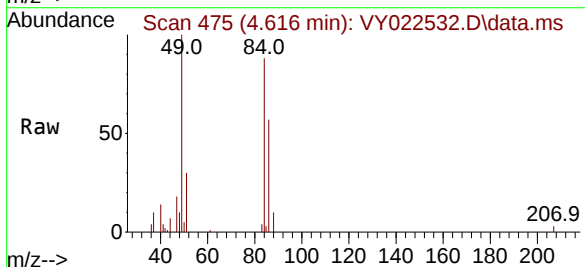
Instrument :
MSVOA_Y
ClientSampleId :
TP-31

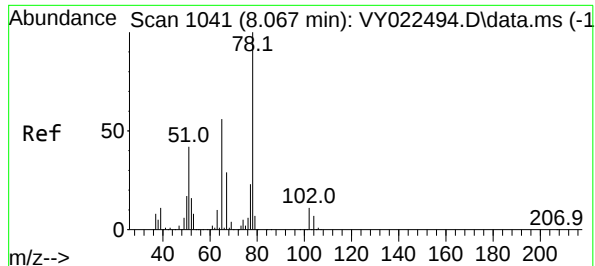
Tgt Ion:168 Resp: 242608
Ion Ratio Lower Upper
168 100
99 55.0 44.3 66.5



#20
Methylene Chloride
Concen: 4.435 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022532.D
Acq: 03 Jun 2025 18:56

Tgt Ion: 84 Resp: 13883
Ion Ratio Lower Upper
84 100
49 114.2 101.9 152.9
51 34.4 29.8 44.8
86 64.6 51.3 76.9





#33

1,2-Dichloroethane-d4

Concen: 52.032 ug/l

RT: 8.061 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY022532.D

Acq: 03 Jun 2025 18:56

Instrument :

MSVOA_Y

ClientSampleId :

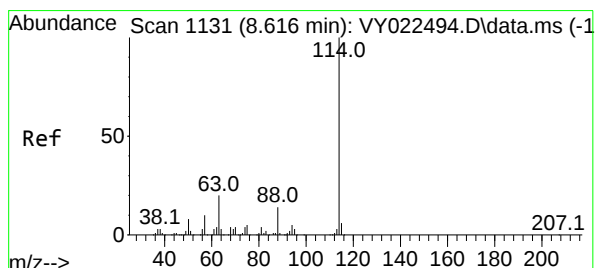
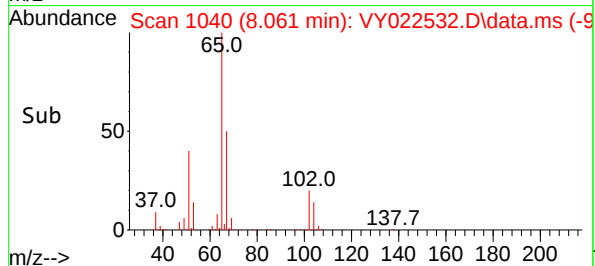
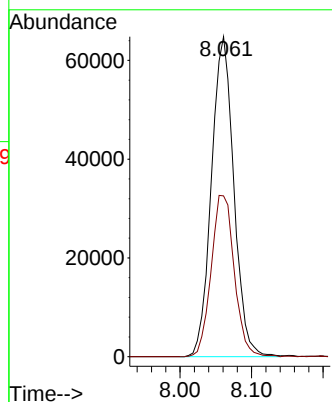
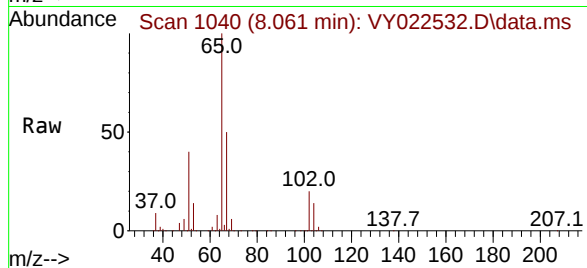
TP-31

Tgt Ion: 65 Resp: 141185

Ion Ratio Lower Upper

65 100

67 52.0 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022532.D

Acq: 03 Jun 2025 18:56

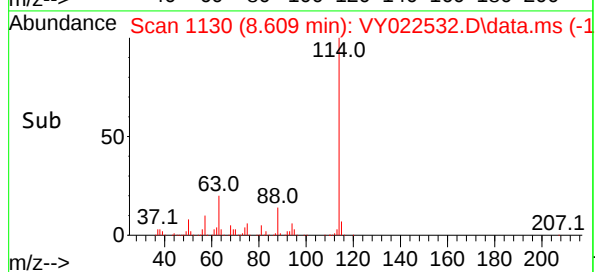
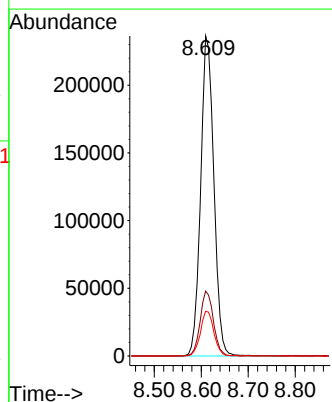
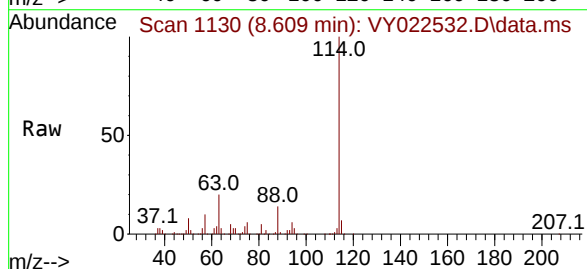
Tgt Ion: 114 Resp: 461777

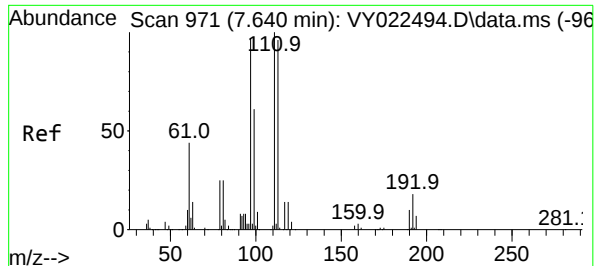
Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

88 14.0 0.0 27.8





#35

Dibromofluoromethane

Concen: 50.896 ug/l

RT: 7.628 min Scan# 91

Delta R.T. -0.012 min

Lab File: VY022532.D

Acq: 03 Jun 2025 18:56

Instrument :

MSVOA_Y

ClientSampleId :

TP-31

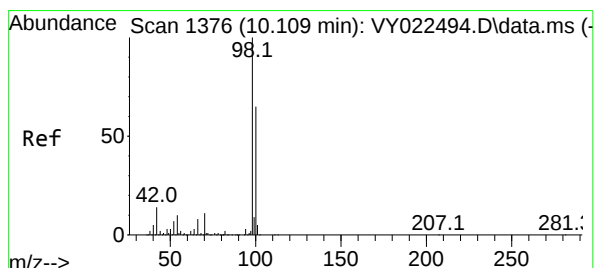
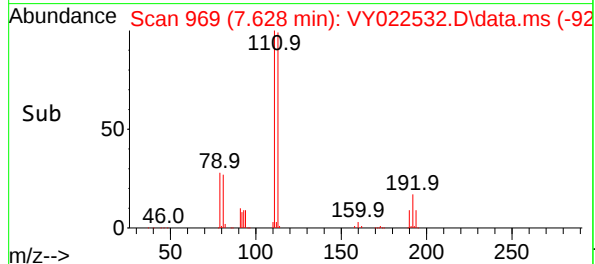
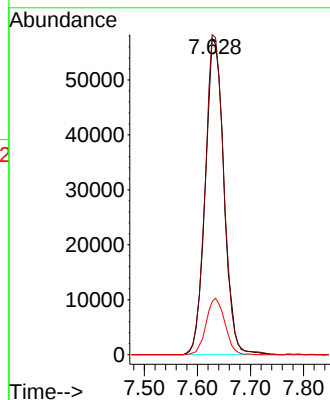
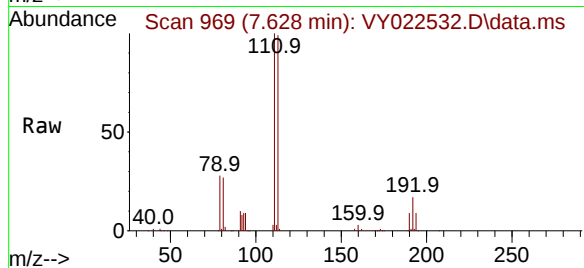
Tgt Ion:113 Resp: 140282

Ion Ratio Lower Upper

113 100

111 101.5 81.1 121.7

192 18.0 14.2 21.2



#50

Toluene-d8

Concen: 49.734 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022532.D

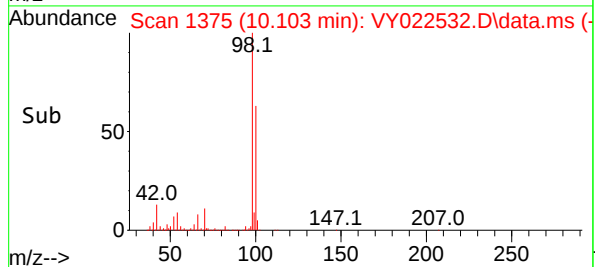
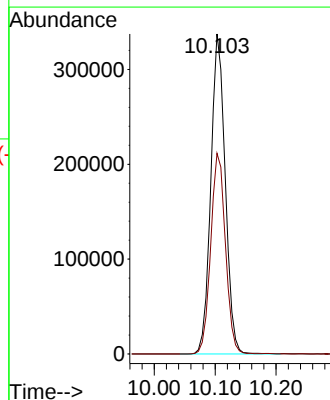
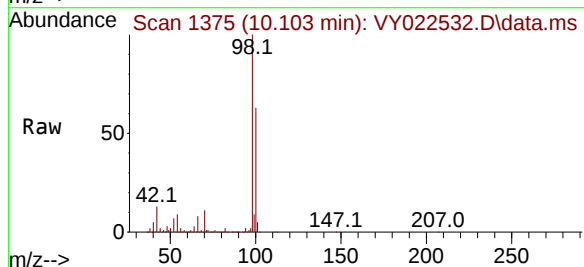
Acq: 03 Jun 2025 18:56

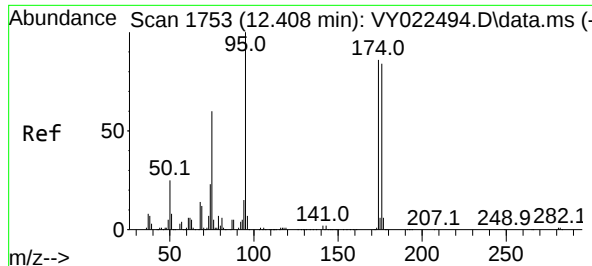
Tgt Ion: 98 Resp: 553890

Ion Ratio Lower Upper

98 100

100 64.0 51.4 77.0





#62

4-Bromofluorobenzene

Concen: 41.375 ug/l

RT: 12.401 min Scan# 1753

Delta R.T. -0.006 min

Lab File: VY022532.D

Acq: 03 Jun 2025 18:56

Instrument :

MSVOA_Y

ClientSampleId :

TP-31

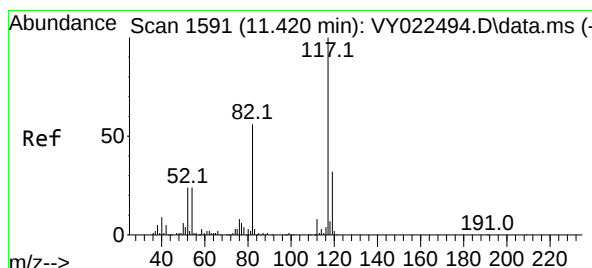
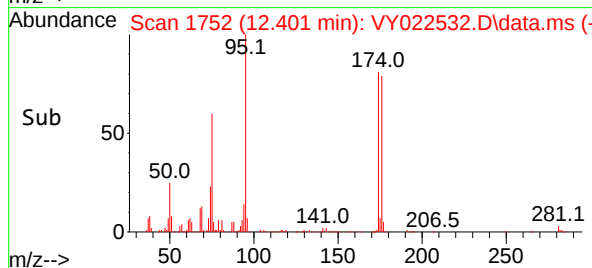
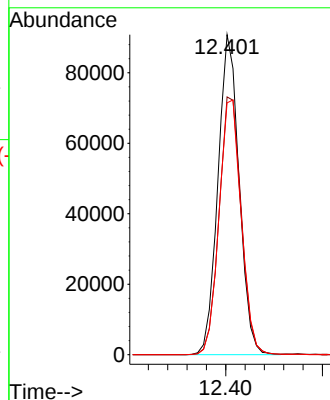
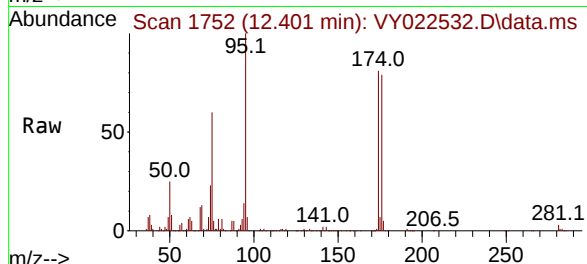
Tgt Ion: 95 Resp: 137293

Ion Ratio Lower Upper

95 100

174 84.8 0.0 170.0

176 83.8 0.0 166.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY022532.D

Acq: 03 Jun 2025 18:56

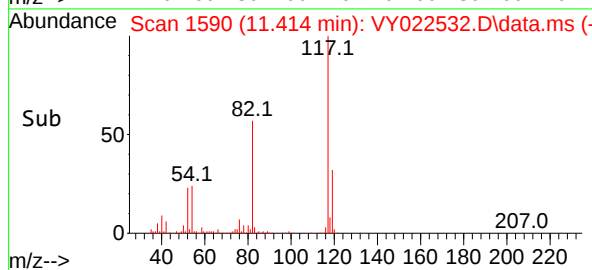
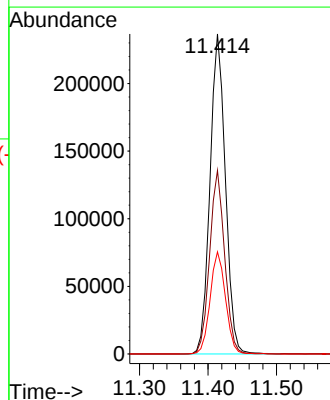
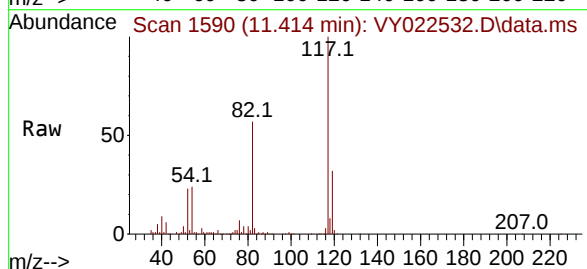
Tgt Ion: 117 Resp: 369180

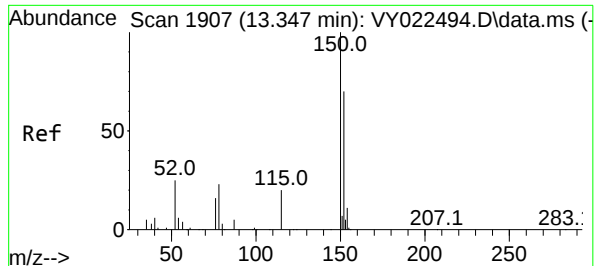
Ion Ratio Lower Upper

117 100

82 57.3 44.6 66.8

119 31.9 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022532.D

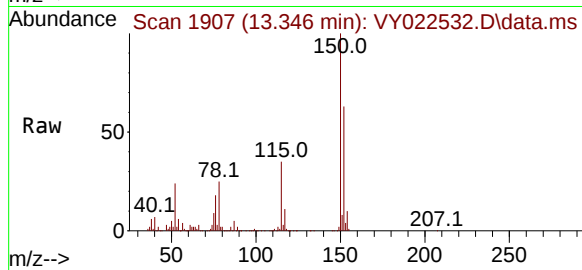
Acq: 03 Jun 2025 18:56

Instrument :

MSVOA_Y

ClientSampleId :

TP-31



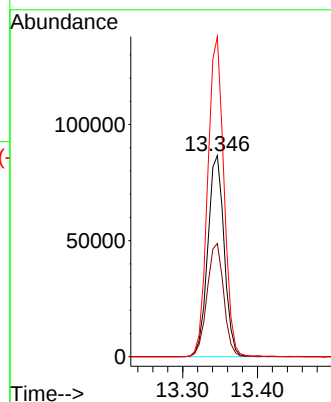
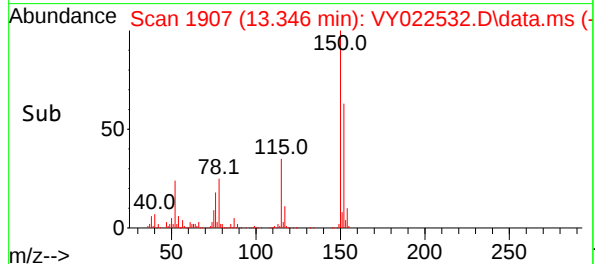
Tgt Ion:152 Resp: 131849

Ion Ratio Lower Upper

152 100

115 57.4 28.9 86.7

150 157.2 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022532.D
 Acq On : 03 Jun 2025 18:56
 Operator : SY/MD
 Sample : Q2176-07
 Misc : 5.50g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-31

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\82Y060225S.M

Title : SW846 8260

Signal : TIC: VY022532.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.092	51	61	62	rBV2	11044	25508	1.70%	0.348%
2	4.610	464	474	487	rBV2	19080	62143	4.14%	0.848%
3	7.628	960	969	976	rBV	201111	490184	32.62%	6.689%
4	7.707	976	982	995	rVB	326930	734652	48.89%	10.024%
5	8.061	1030	1040	1052	rBV	185986	422924	28.14%	5.771%
6	8.609	1122	1130	1143	rBV	560903	1100776	73.25%	15.020%
7	10.103	1367	1375	1384	rBV	893955	1502741	100.00%	20.505%
8	11.414	1582	1590	1605	rBV	784984	1224138	81.46%	16.703%
9	12.401	1744	1752	1761	rBV	516070	819745	54.55%	11.185%
10	13.346	1899	1907	1914	rBV	557485	871402	57.99%	11.890%
11	13.883	1987	1995	2001	rBV	47696	74473	4.96%	1.016%

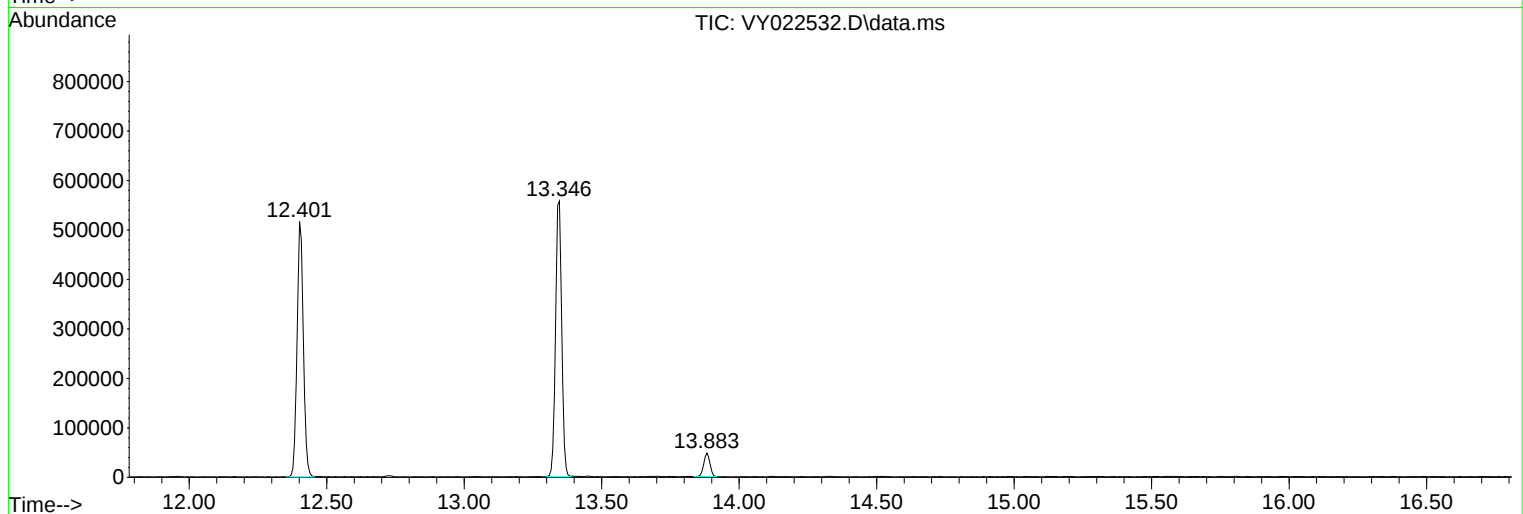
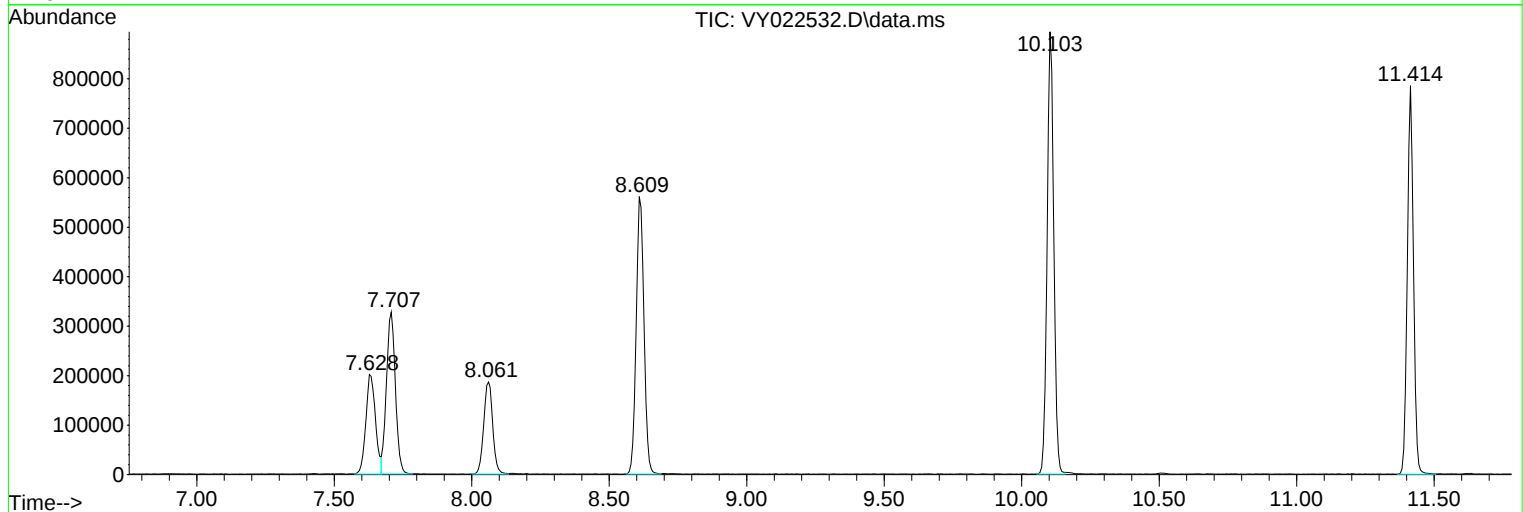
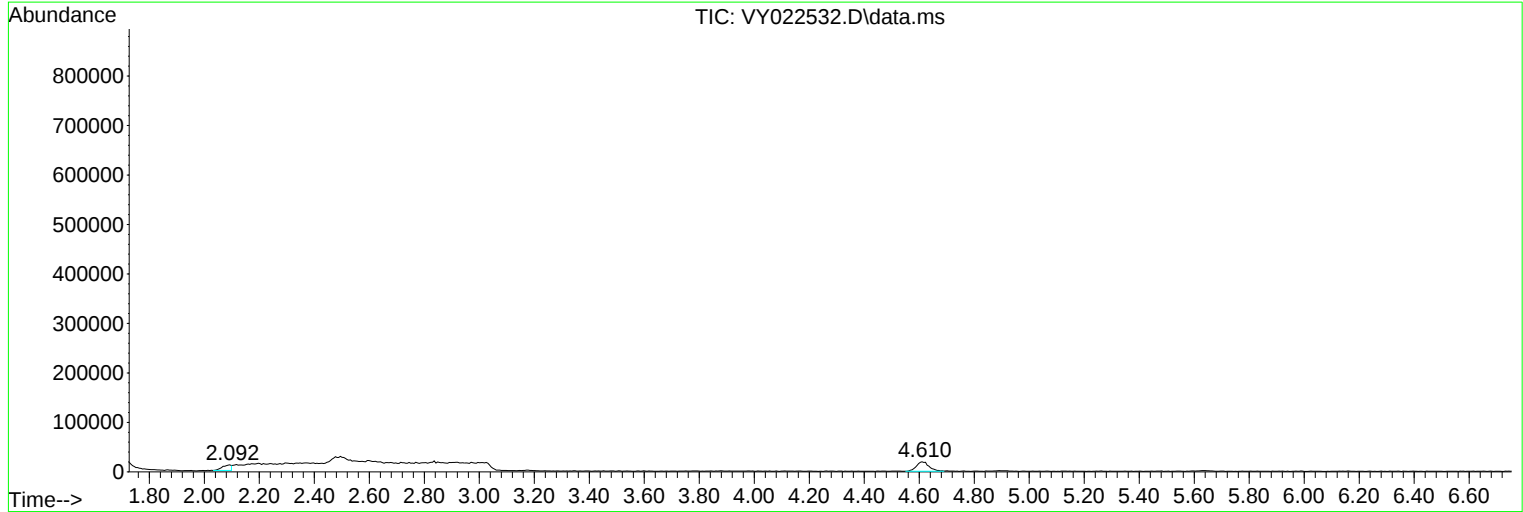
Sum of corrected areas: 7328686

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022532.D
Acq On : 03 Jun 2025 18:56
Operator : SY/MD
Sample : Q2176-07
Misc : 5.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-31

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022532.D
Acq On : 03 Jun 2025 18:56
Operator : SY/MD
Sample : Q2176-07
Misc : 5.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-31

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022532.D
Acq On : 03 Jun 2025 18:56
Operator : SY/MD
Sample : Q2176-07
Misc : 5.50g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-31

A

B

C

D

E

F

G

H

I

J

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.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--			
					#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022533.D
Acq On : 03 Jun 2025 19:19
Operator : SY/MD
Sample : Q2176-08
Misc : 6.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-65

A
B
C
D
E
F
G
H
I
J

Quant Time: Jun 04 04:17:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	268630	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	484998	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	368793	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	123634	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	133278	44.360	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	88.720%
35) Dibromofluoromethane	7.628	113	138744	47.928	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.860%
50) Toluene-d8	10.103	98	579788	49.567	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.140%
62) 4-Bromofluorobenzene	12.401	95	133019	38.168	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	76.340%

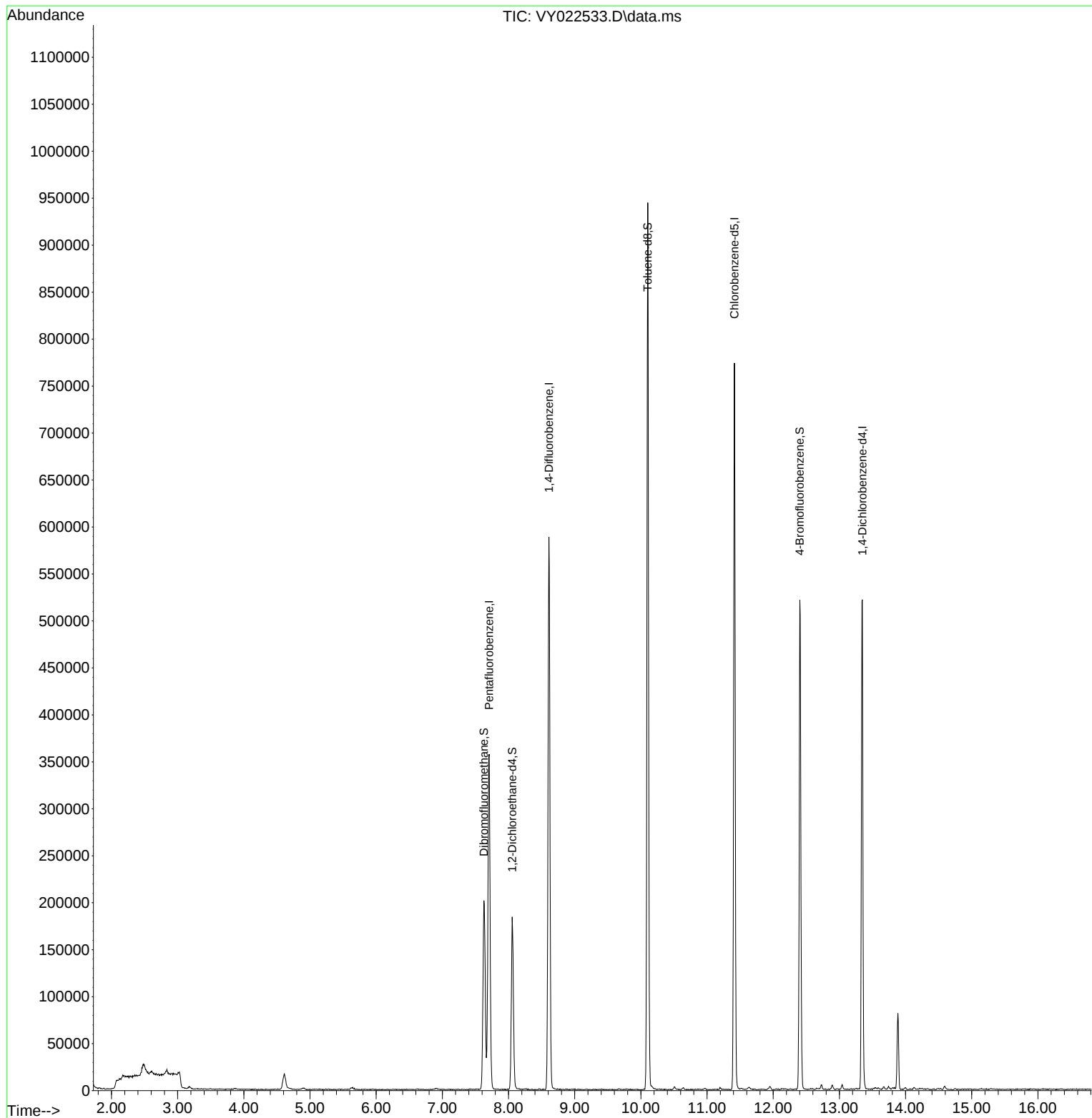
Target Compounds	Qvalue

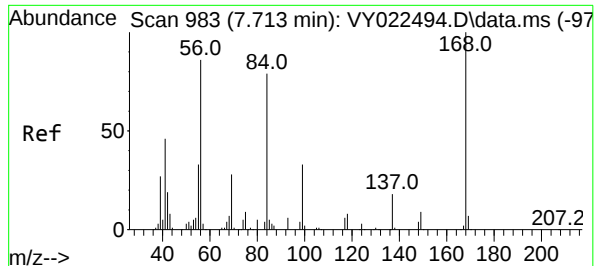
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022533.D
Acq On : 03 Jun 2025 19:19
Operator : SY/MD
Sample : Q2176-08
Misc : 6.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-65

Quant Time: Jun 04 04:17:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

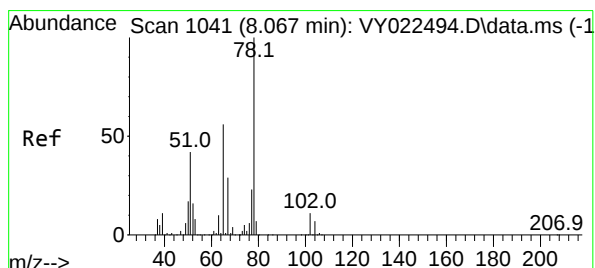
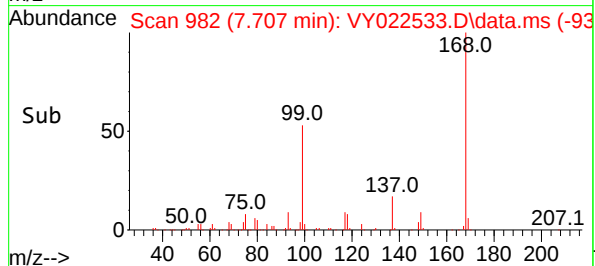
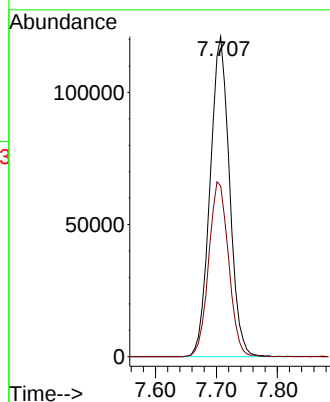
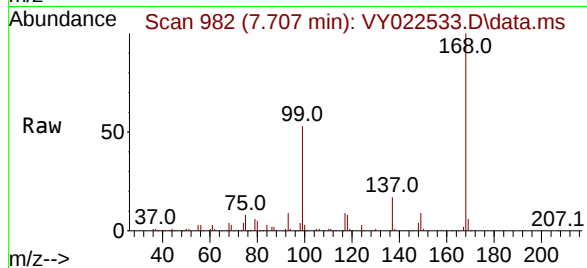




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022533.D
Acq: 03 Jun 2025 19:19

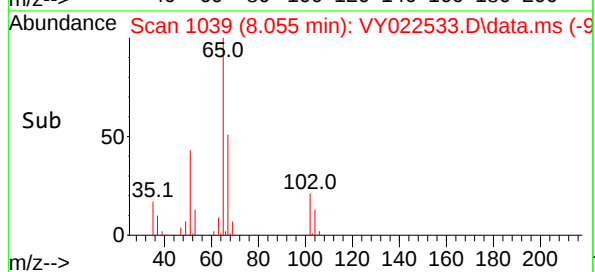
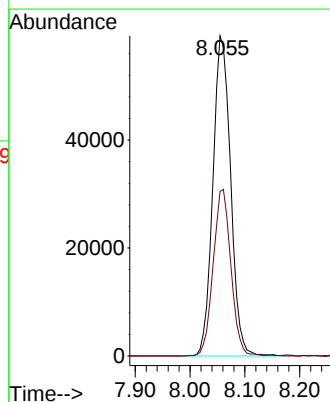
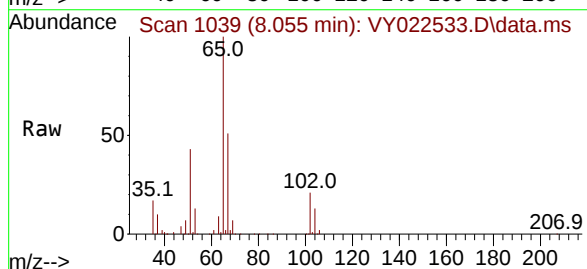
Instrument :
MSVOA_Y
ClientSampleId :
TP-65

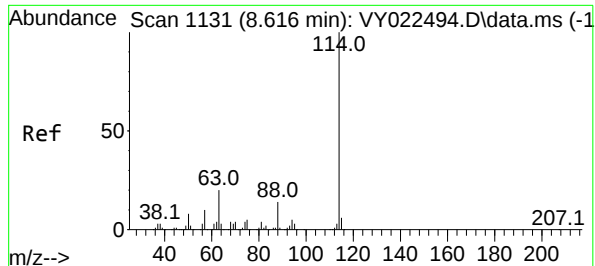
Tgt Ion:168 Resp: 268630
Ion Ratio Lower Upper
168 100
99 53.3 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 44.360 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.012 min
Lab File: VY022533.D
Acq: 03 Jun 2025 19:19

Tgt Ion: 65 Resp: 133278
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY022533.D

Acq: 03 Jun 2025 19:19

Instrument :

MSVOA_Y

ClientSampleId :

TP-65

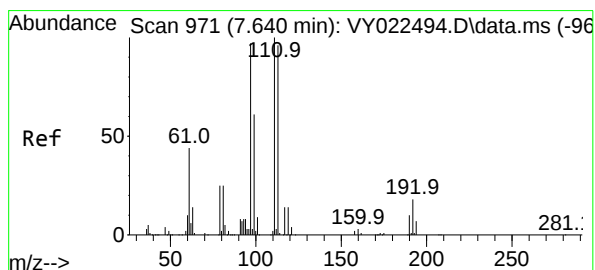
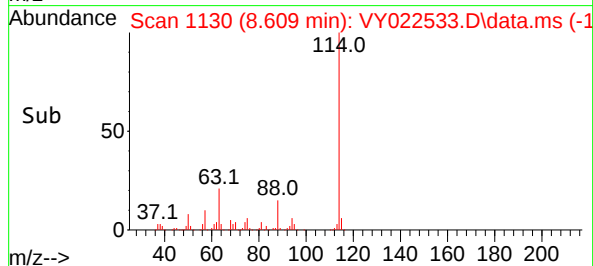
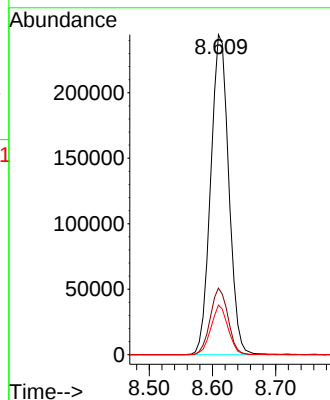
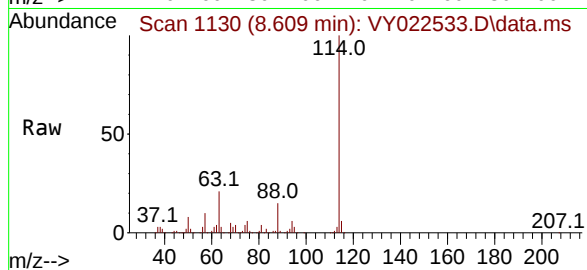
Tgt Ion:114 Resp: 484998

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.8

88 15.5 0.0 27.8



#35

Dibromofluoromethane

Concen: 47.928 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.012 min

Lab File: VY022533.D

Acq: 03 Jun 2025 19:19

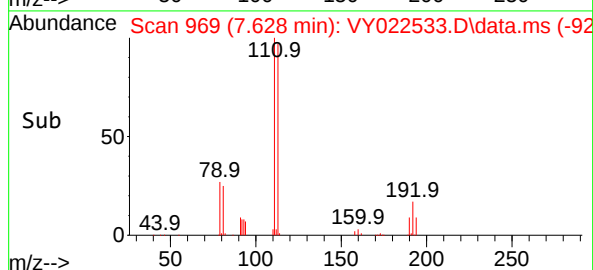
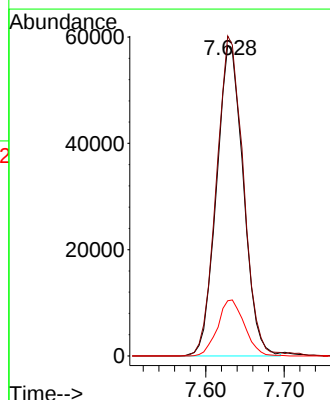
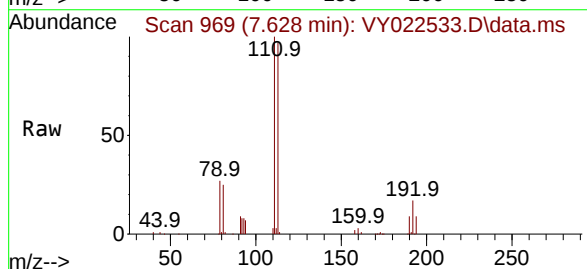
Tgt Ion:113 Resp: 138744

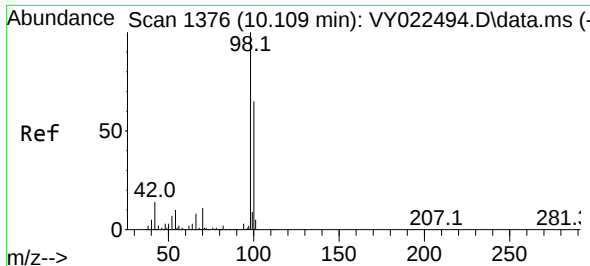
Ion Ratio Lower Upper

113 100

111 103.4 81.1 121.7

192 18.1 14.2 21.2

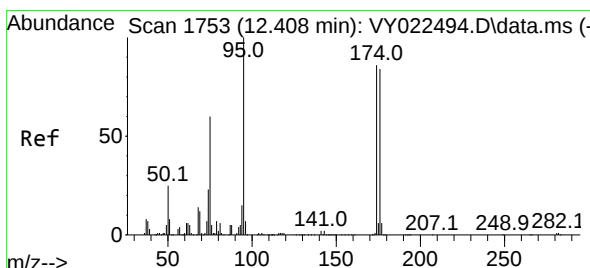
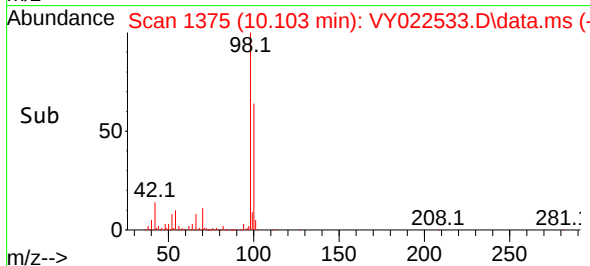
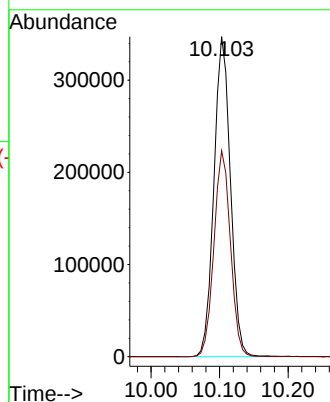
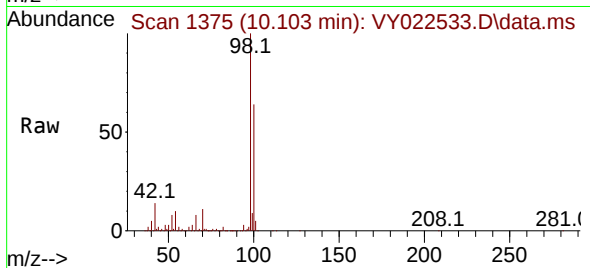




#50
Toluene-d8
Concen: 49.567 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022533.D
Acq: 03 Jun 2025 19:19

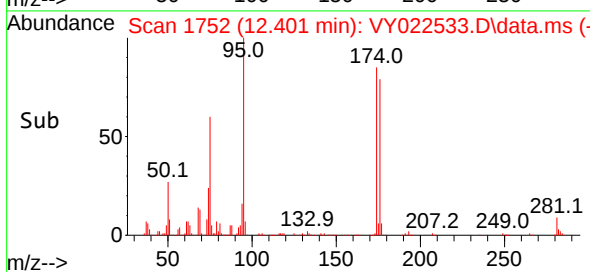
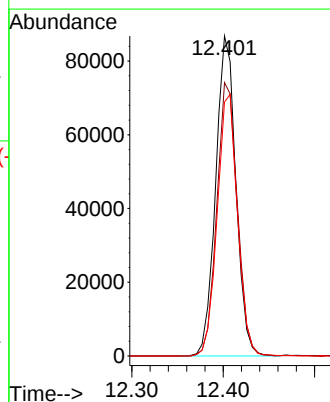
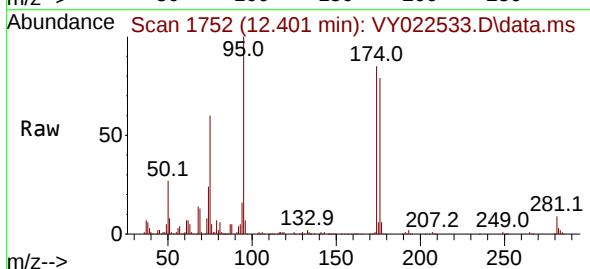
Instrument :
MSVOA_Y
ClientSampleId :
TP-65

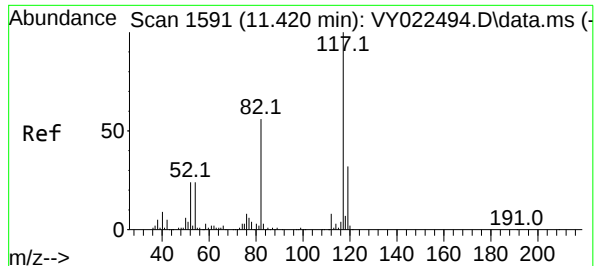
Tgt Ion: 98 Resp: 579788
Ion Ratio Lower Upper
98 100
100 64.3 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 38.168 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022533.D
Acq: 03 Jun 2025 19:19

Tgt Ion: 95 Resp: 133019
Ion Ratio Lower Upper
95 100
174 87.1 0.0 170.0
176 82.6 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY022533.D

Acq: 03 Jun 2025 19:19

Instrument :

MSVOA_Y

ClientSampleId :

TP-65

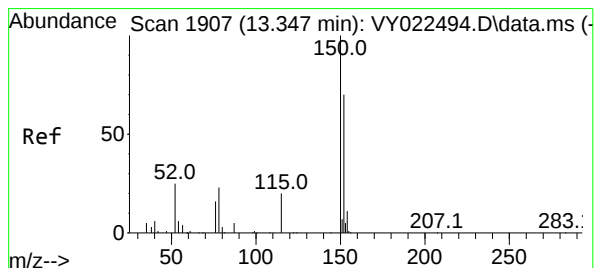
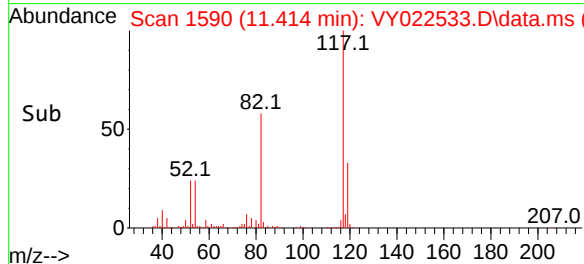
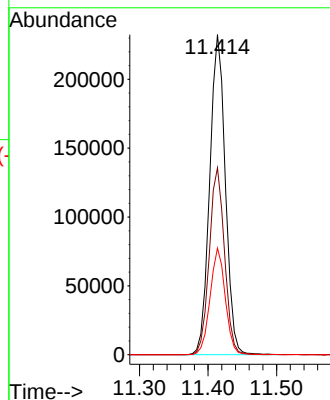
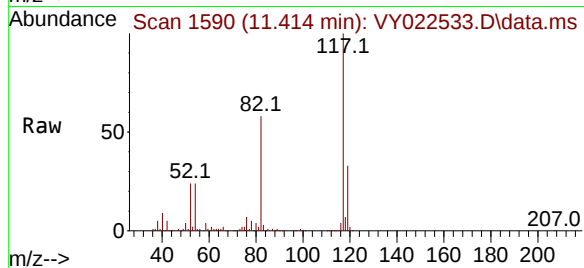
Tgt Ion:117 Resp: 368793

Ion Ratio Lower Upper

117 100

82 58.4 44.6 66.8

119 33.3 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022533.D

Acq: 03 Jun 2025 19:19

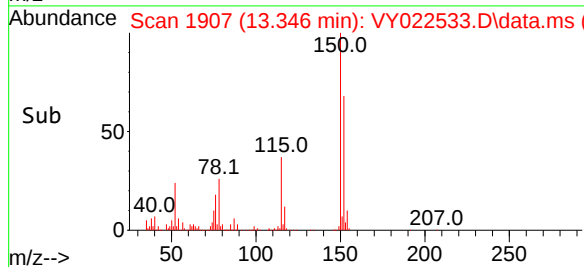
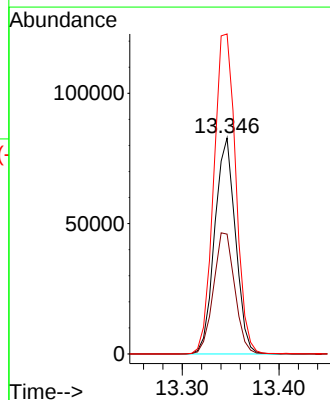
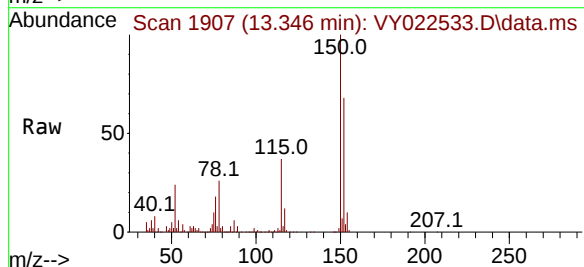
Tgt Ion:152 Resp: 123634

Ion Ratio Lower Upper

152 100

115 57.7 28.9 86.7

150 156.7 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022533.D
 Acq On : 03 Jun 2025 19:19
 Operator : SY/MD
 Sample : Q2176-08
 Misc : 6.47g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-65

A
B
C
D
E
F
G
H
I
J

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\82Y060225S.M

Title : SW846 8260

Signal : TIC: VY022533.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	49	60	63	rBV2	9162	26698	1.69%	0.350%
2	2.482	119	125	139	rVB4	10755	37496	2.37%	0.492%
3	4.610	464	474	488	rBV	16351	51960	3.29%	0.682%
4	7.628	958	969	975	rBV	200852	478404	30.29%	6.275%
5	7.707	975	982	994	rVB	356703	821815	52.03%	10.780%
6	8.055	1031	1039	1053	rBV	183570	399260	25.28%	5.237%
7	8.609	1121	1130	1141	rBV	588429	1159187	73.39%	15.205%
8	10.103	1367	1375	1383	rBV	943884	1579383	100.00%	20.717%
9	11.414	1581	1590	1603	rBV	773507	1222590	77.41%	16.037%
10	12.401	1744	1752	1763	rBV2	521215	890789	56.40%	11.685%
11	13.346	1900	1907	1916	rBV	520805	824415	52.20%	10.814%
12	13.883	1989	1995	2002	rVB2	81024	131508	8.33%	1.725%

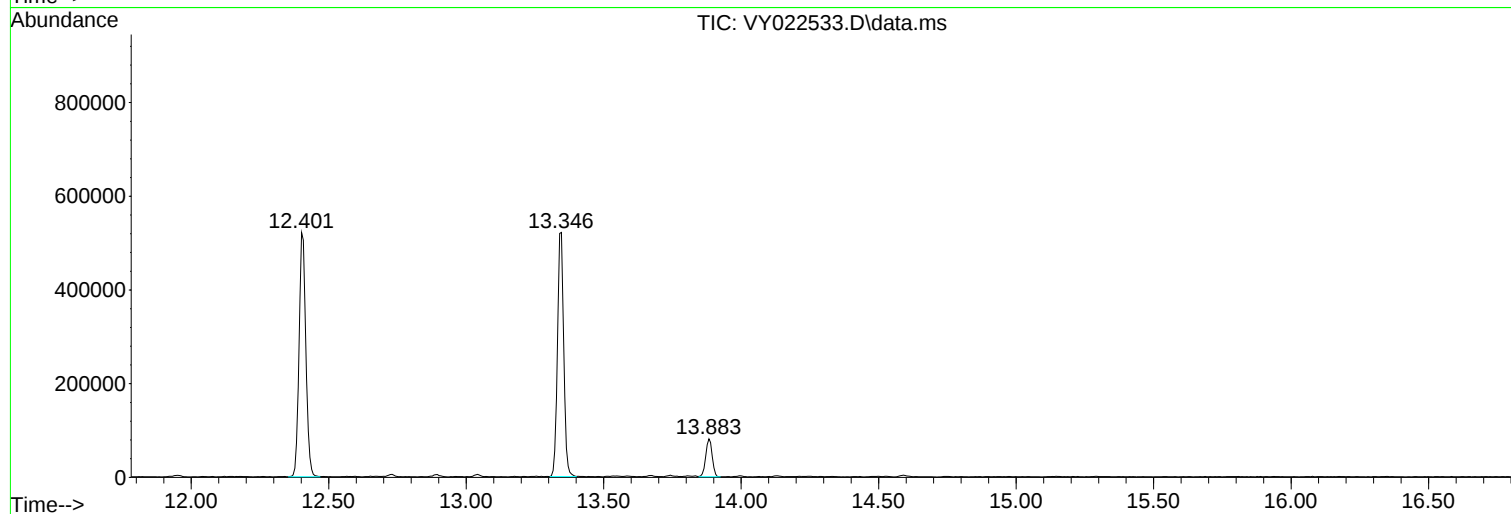
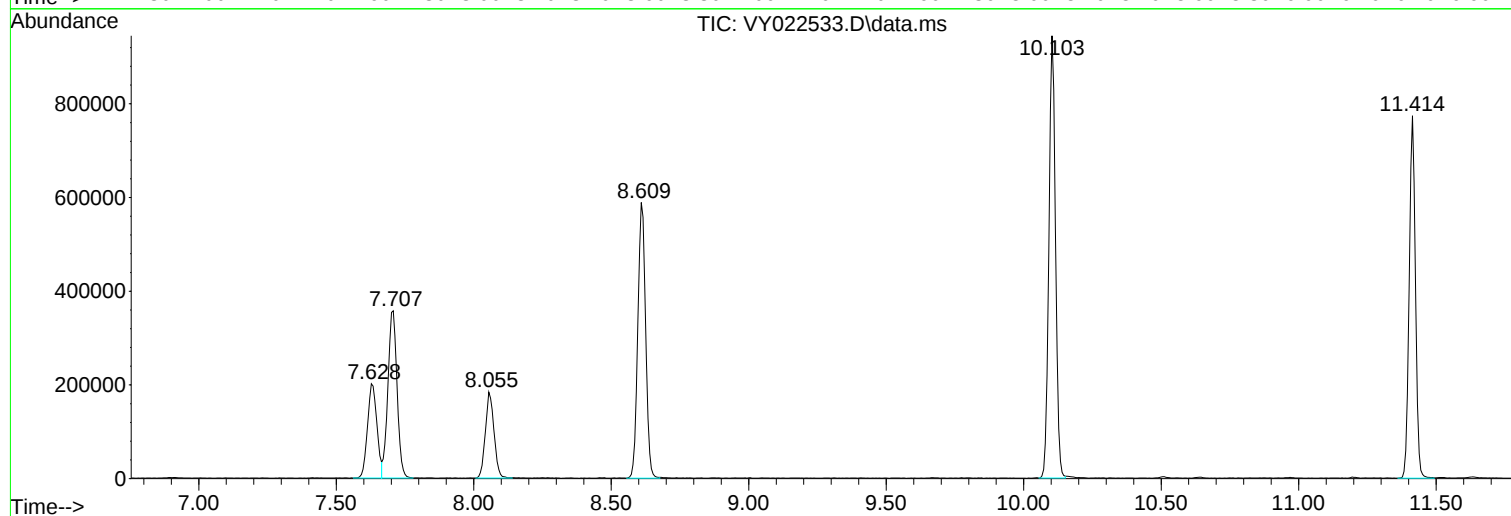
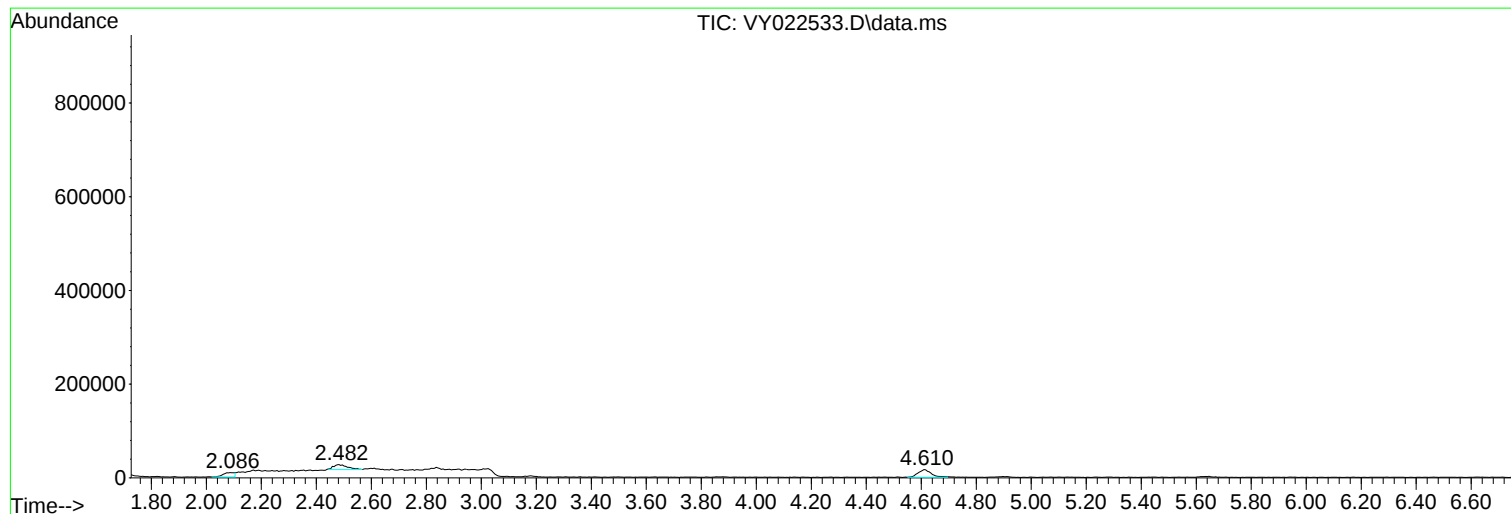
Sum of corrected areas: 7623505

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022533.D
Acq On : 03 Jun 2025 19:19
Operator : SY/MD
Sample : Q2176-08
Misc : 6.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-65

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022533.D
Acq On : 03 Jun 2025 19:19
Operator : SY/MD
Sample : Q2176-08
Misc : 6.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-65

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022533.D
Acq On : 03 Jun 2025 19:19
Operator : SY/MD
Sample : Q2176-08
Misc : 6.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-65

A

B

C

D

E

F

G

H

I

J

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.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--			
					#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022512.D
 Acq On : 03 Jun 2025 10:40
 Operator : SY/MD
 Sample : VY0603SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0603SBL01

A
B
C
D
E
F
G
H
I
J

Quant Time: Jun 04 04:08:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	287398	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	534399	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	428748	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	155262	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	171949	53.494	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	106.980%
35) Dibromofluoromethane	7.640	113	162497	50.944	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.880%
50) Toluene-d8	10.109	98	643614	49.937	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.880%
62) 4-Bromofluorobenzene	12.408	95	161263	41.994	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	83.980%

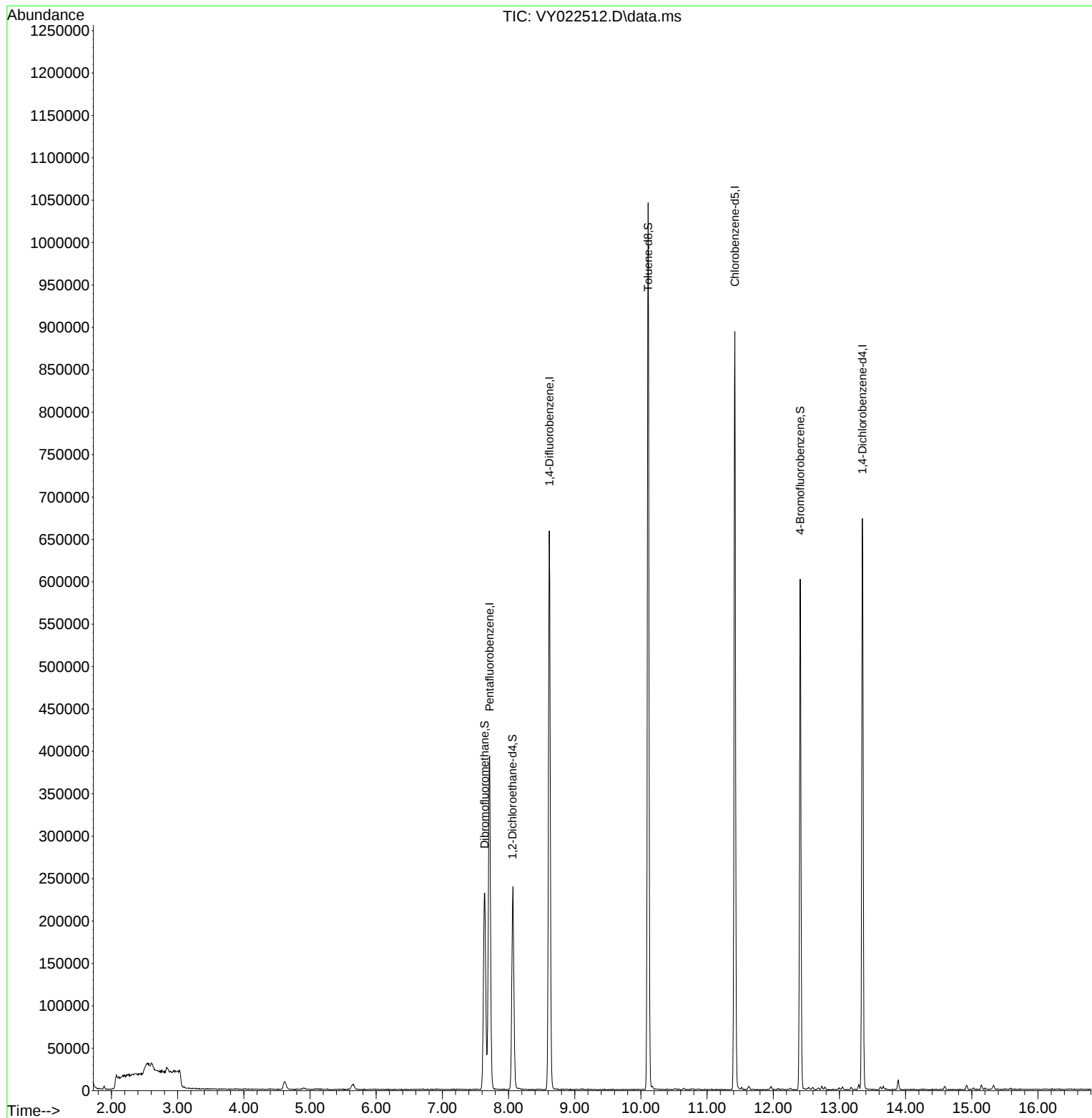
Target Compounds	Qvalue

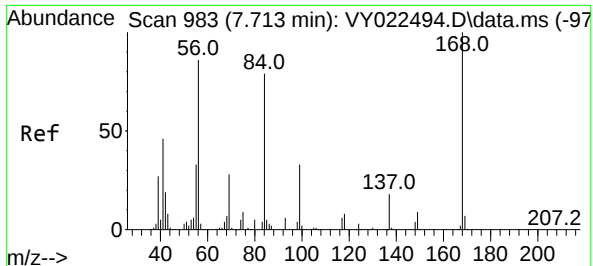
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022512.D
Acq On : 03 Jun 2025 10:40
Operator : SY/MD
Sample : VY0603SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0603SBL01

Quant Time: Jun 04 04:08:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

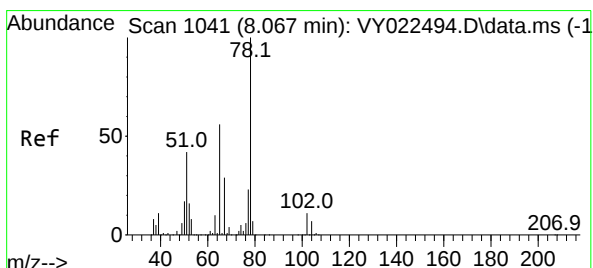
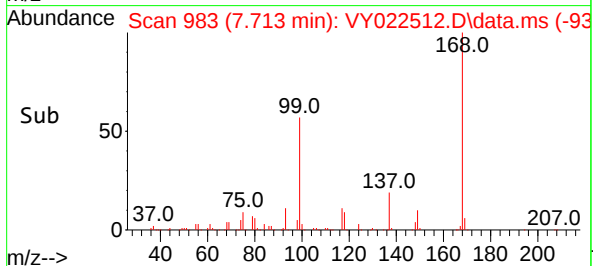
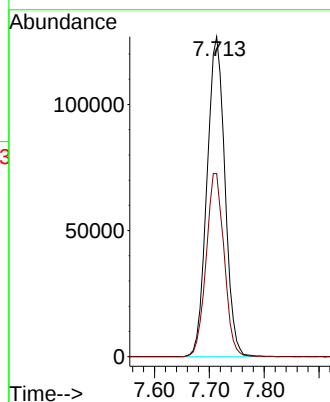
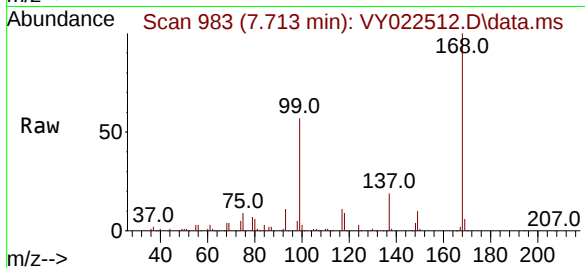




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022512.D
Acq: 03 Jun 2025 10:40

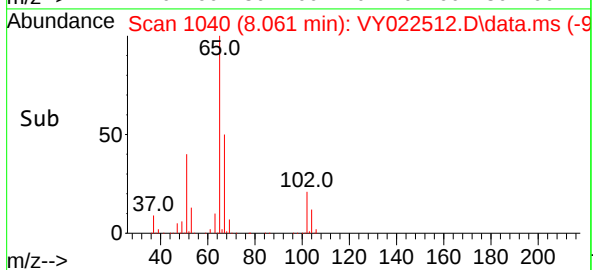
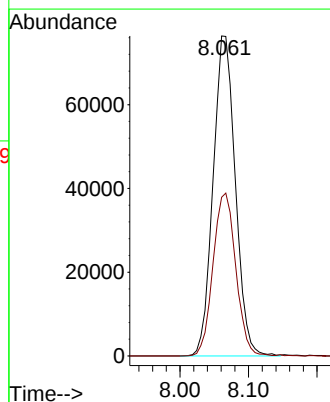
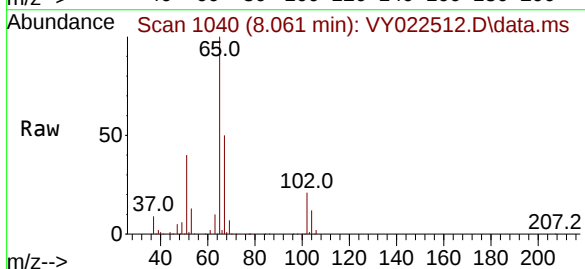
Instrument :
MSVOA_Y
ClientSampleId :
VY0603SBL01

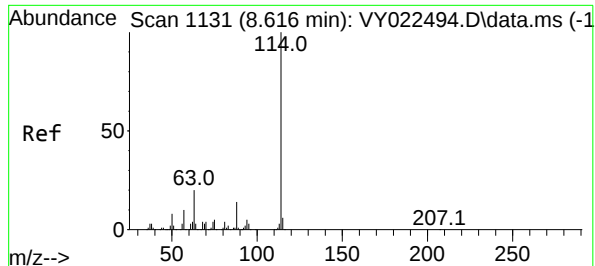
Tgt Ion:168 Resp: 287398
Ion Ratio Lower Upper
168 100
99 57.2 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 53.494 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022512.D
Acq: 03 Jun 2025 10:40

Tgt Ion: 65 Resp: 171949
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022512.D

Acq: 03 Jun 2025 10:40

Instrument :

MSVOA_Y

ClientSampleId :

VY0603SBL01

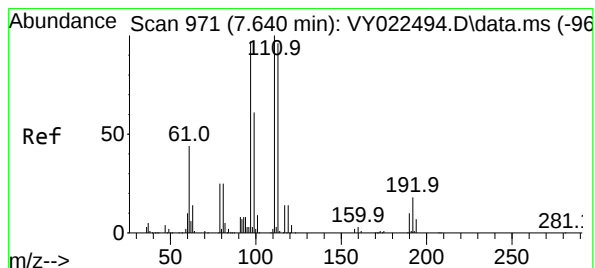
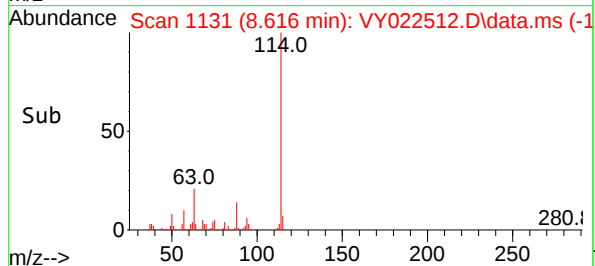
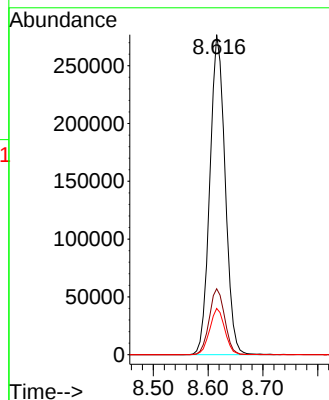
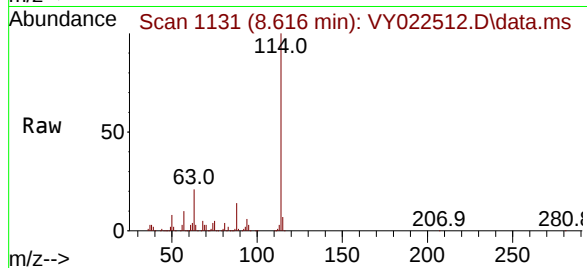
Tgt Ion:114 Resp: 534399

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 14.4 0.0 27.8



#35

Dibromofluoromethane

Concen: 50.944 ug/l

RT: 7.640 min Scan# 971

Delta R.T. -0.000 min

Lab File: VY022512.D

Acq: 03 Jun 2025 10:40

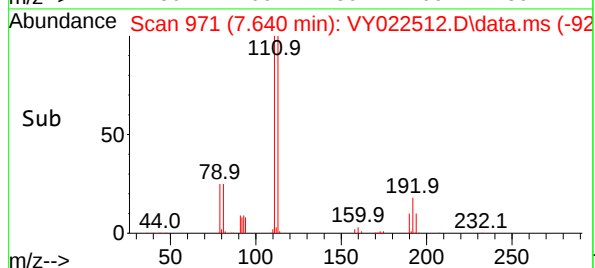
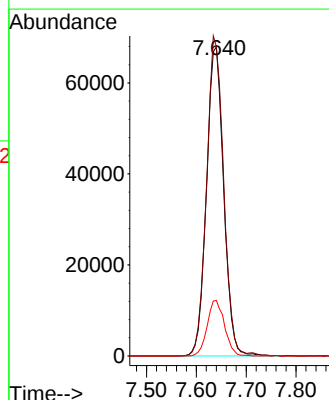
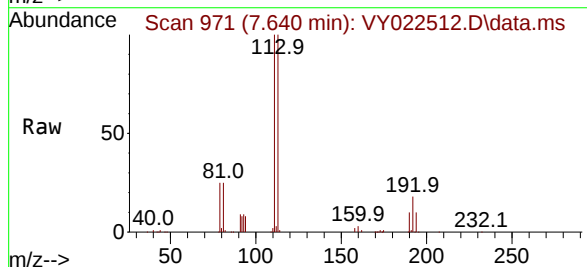
Tgt Ion:113 Resp: 162497

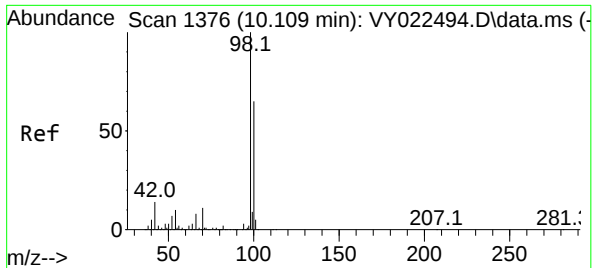
Ion Ratio Lower Upper

113 100

111 102.5 81.1 121.7

192 18.1 14.2 21.2

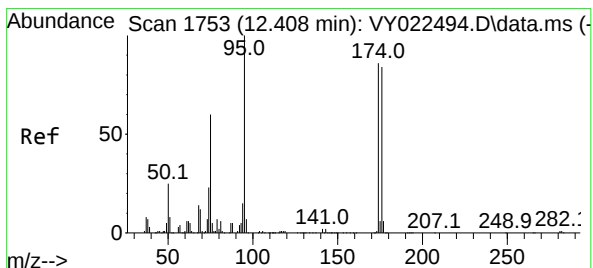
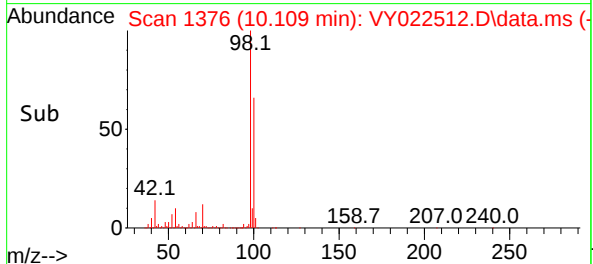
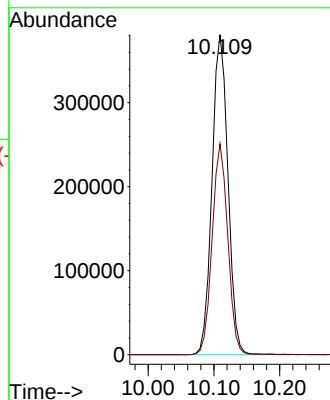
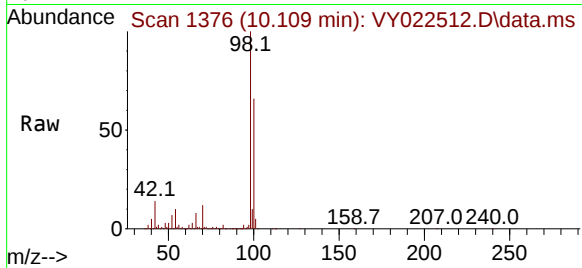




#50
Toluene-d8
Concen: 49.937 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY022512.D
Acq: 03 Jun 2025 10:40

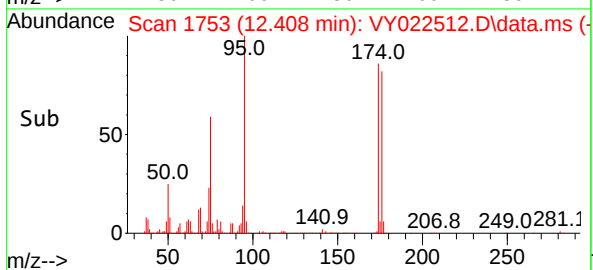
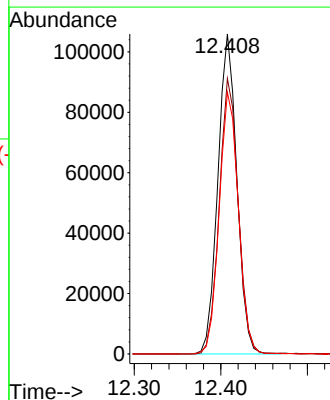
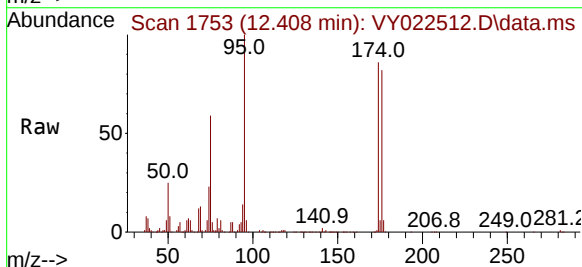
Instrument :
MSVOA_Y
ClientSampleId :
VY0603SBL01

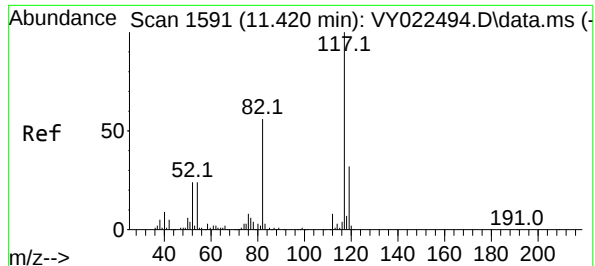
Tgt Ion: 98 Resp: 643614
Ion Ratio Lower Upper
98 100
100 64.6 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 41.994 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022512.D
Acq: 03 Jun 2025 10:40

Tgt Ion: 95 Resp: 161263
Ion Ratio Lower Upper
95 100
174 86.0 0.0 170.0
176 82.5 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. -0.000 min

Lab File: VY022512.D

Acq: 03 Jun 2025 10:40

Instrument :

MSVOA_Y

ClientSampleId :

VY0603SBL01

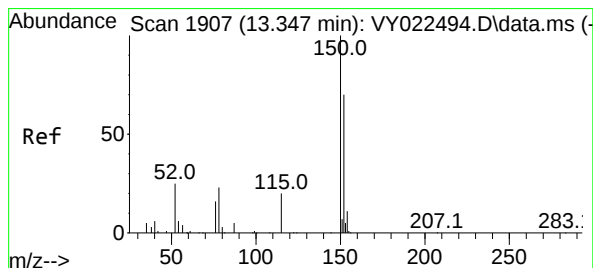
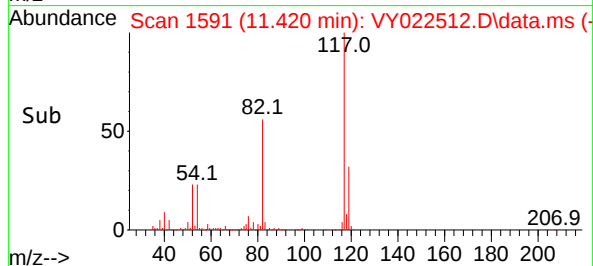
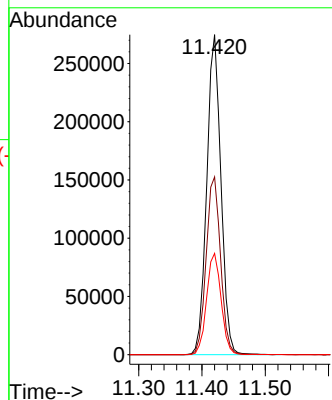
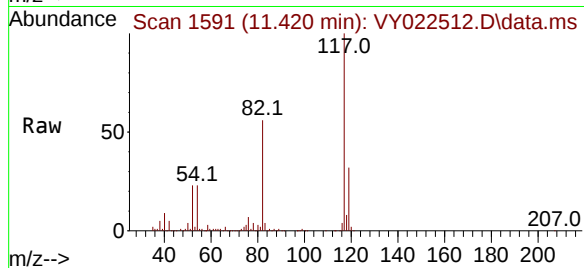
Tgt Ion:117 Resp: 428748

Ion Ratio Lower Upper

117 100

82 55.6 44.6 66.8

119 31.6 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022512.D

Acq: 03 Jun 2025 10:40

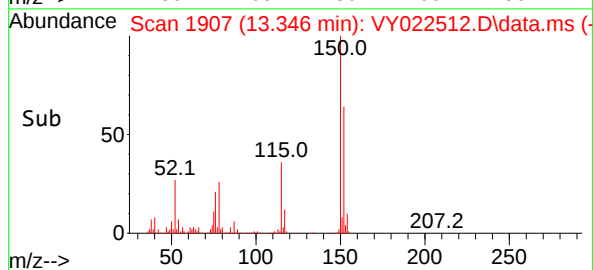
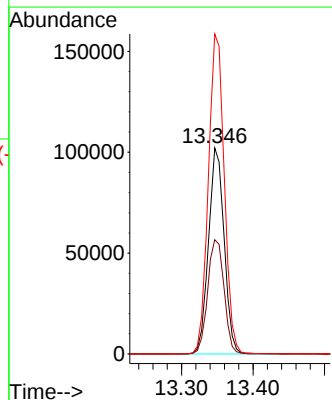
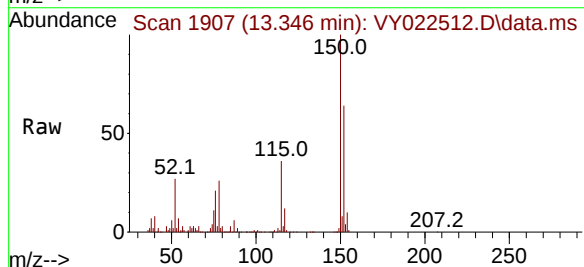
Tgt Ion:152 Resp: 155262

Ion Ratio Lower Upper

152 100

115 58.0 28.9 86.7

150 158.0 0.0 349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022512.D
 Acq On : 03 Jun 2025 10:40
 Operator : SY/MD
 Sample : VY0603SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0603SBL01

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\82Y060225S.M

Title : SW846 8260

Signal : TIC: VY022512.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	51	58	61	rBV4	16308	35746	2.03%	0.419%
2	2.525	124	132	134	rBV6	11508	28540	1.62%	0.335%
3	4.616	465	475	487	rBV5	9205	28836	1.64%	0.338%
4	5.647	635	644	656	rVB5	6196	19866	1.13%	0.233%
5	7.634	960	970	976	rBV	231701	558773	31.74%	6.557%
6	7.713	976	983	993	rVB	392129	893359	50.75%	10.483%
7	8.067	1030	1041	1053	rBV	239523	514607	29.23%	6.039%
8	8.616	1122	1131	1143	rBV	658828	1278696	72.63%	15.005%
9	10.109	1367	1376	1385	rBV	1045962	1760453	100.00%	20.658%
10	11.420	1583	1591	1603	rBV	894137	1423227	80.84%	16.700%
11	12.408	1741	1753	1760	rBV	602384	930697	52.87%	10.921%
12	13.346	1901	1907	1916	rVB	672428	1031179	58.57%	12.100%
13	13.889	1990	1996	2003	rBV	11170	18100	1.03%	0.212%

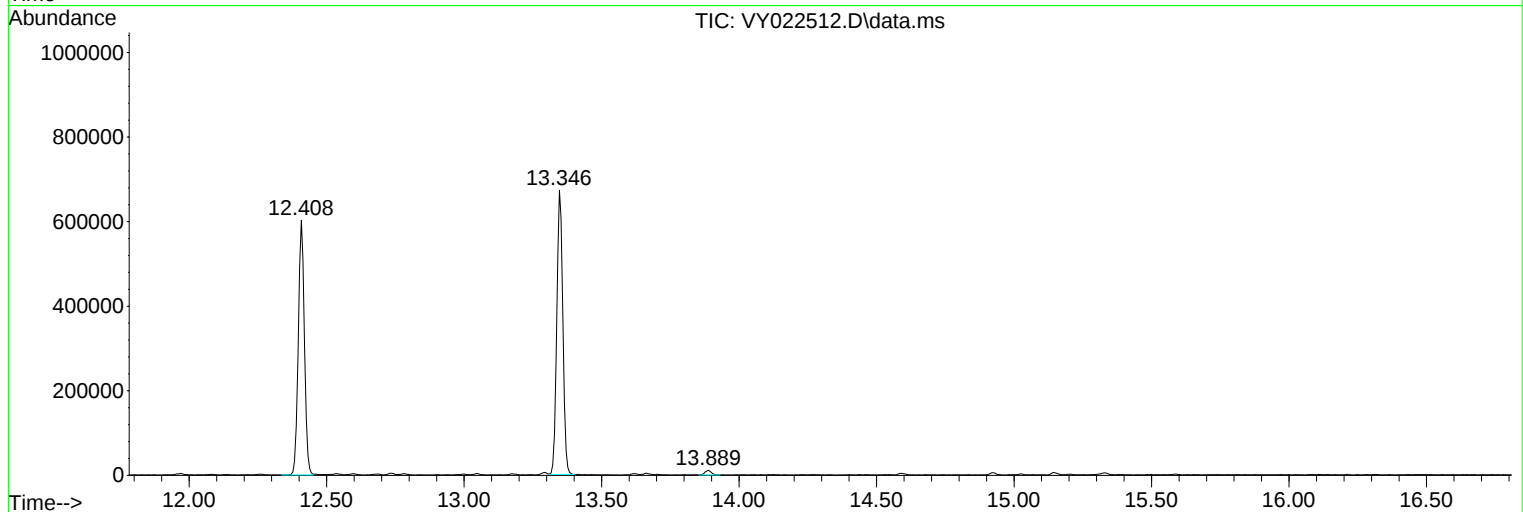
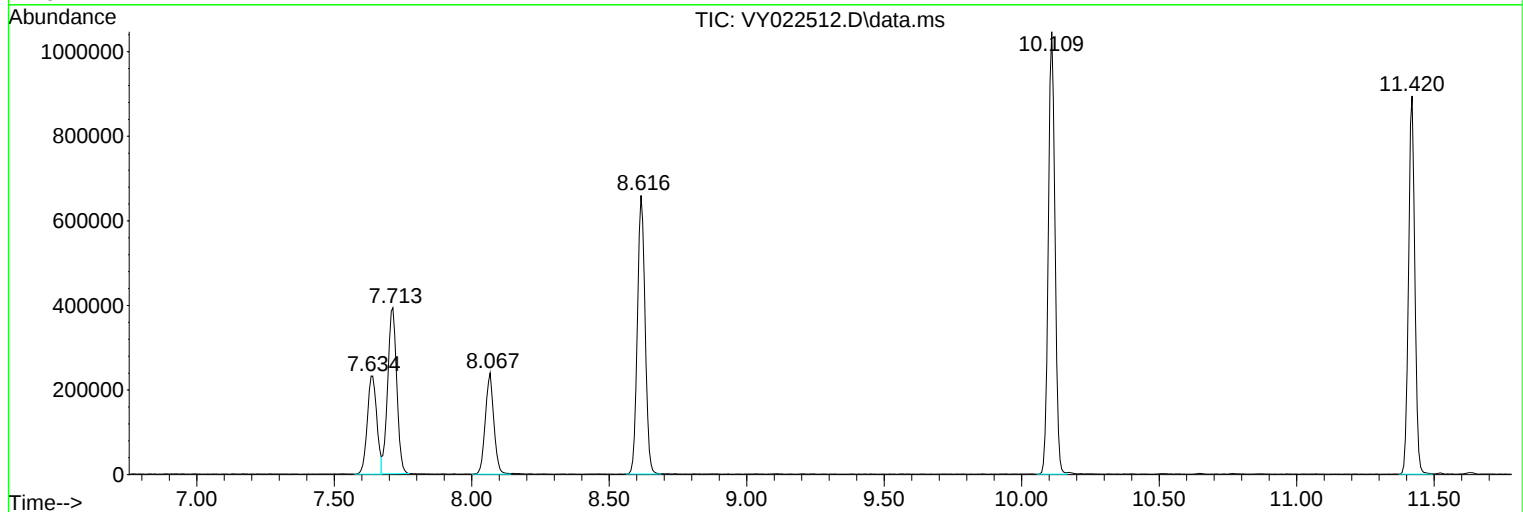
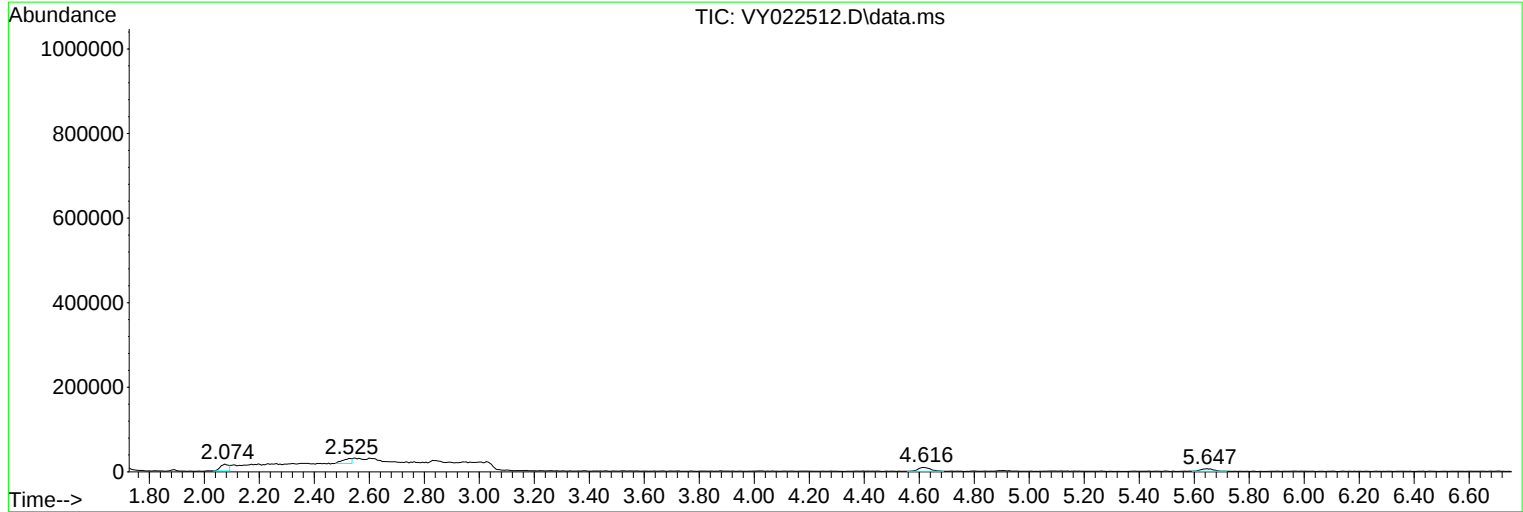
Sum of corrected areas: 8522079

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022512.D
Acq On : 03 Jun 2025 10:40
Operator : SY/MD
Sample : VY0603SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0603SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022512.D
Acq On : 03 Jun 2025 10:40
Operator : SY/MD
Sample : VY0603SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0603SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022512.D
Acq On : 03 Jun 2025 10:40
Operator : SY/MD
Sample : VY0603SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0603SBL01

A

B

C

D

E

F

G

H

I

J

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.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--			
					#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022513.D
 Acq On : 03 Jun 2025 11:15
 Operator : SY/MD
 Sample : VY0603SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0603SBS01

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 06/04/2025
 Supervised By : Semsettin Yesilyurt 06/04/2025

Quant Time: Jun 04 04:09:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	197612	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	337632	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	284268	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	131961	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	110445	49.971	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.940%		
35) Dibromofluoromethane	7.634	113	102818	51.020	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	102.040%		
50) Toluene-d8	10.109	98	418973	51.452	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	102.900%		
62) 4-Bromofluorobenzene	12.407	95	118916	49.014	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	98.020%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	39051	22.073	ug/l	95
3) Chloromethane	2.074	50	96334	18.431	ug/l	98
4) Vinyl Chloride	2.208	62	126140	20.803	ug/l	96
5) Bromomethane	2.592	94	117107	20.151	ug/l	98
6) Chloroethane	2.732	64	88804	21.338	ug/l	96
7) Trichlorofluoromethane	3.049	101	114182	22.182	ug/l	99
8) Diethyl Ether	3.458	74	24346	21.002	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	46051	21.242	ug/l	99
10) Methyl Iodide	4.007	142	43818	18.677	ug/l	100
11) Tert butyl alcohol	4.872	59	15349	97.233	ug/l #	73
12) 1,1-Dichloroethene	3.793	96	43949	21.208	ug/l	95
13) Acrolein	3.653	56	20560	104.508	ug/l	97
14) Allyl chloride	4.391	41	67413	20.722	ug/l	98
15) Acrylonitrile	5.067	53	48448	98.683	ug/l	98
16) Acetone	3.872	43	64637	144.004	ug/l	97
17) Carbon Disulfide	4.110	76	138205	20.831	ug/l	100
18) Methyl Acetate	4.391	43	27356	20.581	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	118612	20.321	ug/l	96
20) Methylene Chloride	4.616	84	47160	18.497	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	47664	20.551	ug/l	98
22) Diisopropyl ether	6.018	45	150165	20.737	ug/l	95
23) Vinyl Acetate	5.963	43	425369	99.247	ug/l	100
24) 1,1-Dichloroethane	5.921	63	90453	21.203	ug/l	98
25) 2-Butanone	6.902	43	76024	117.421	ug/l	90
26) 2,2-Dichloropropane	6.884	77	81323	21.575	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	55057	20.538	ug/l	97
28) Bromochloromethane	7.244	49	39559	21.273	ug/l	96
29) Tetrahydrofuran	7.262	42	40474	96.924	ug/l	100
30) Chloroform	7.427	83	88966	21.055	ug/l	94
31) Cyclohexane	7.701	56	85871	20.219	ug/l	99
32) 1,1,1-Trichloroethane	7.622	97	79604	21.222	ug/l	99
36) 1,1-Dichloropropene	7.835	75	66890	20.451	ug/l	99
37) Ethyl Acetate	6.994	43	28280	19.388	ug/l	97
38) Carbon Tetrachloride	7.817	117	67799	20.206	ug/l	95
39) Methylcyclohexane	9.109	83	87053	19.805	ug/l	98
40) Benzene	8.085	78	200164	20.720	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022513.D
 Acq On : 03 Jun 2025 11:15
 Operator : SY/MD
 Sample : VY0603SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VY0603SBS01

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/04/2025

Supervised By :Semsettin Yesilyurt 06/04/2025

Quant Time: Jun 04 04:09:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M

Quant Title : SW846 8260

QLast Update : Tue Jun 03 03:22:04 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	15933	18.701	ug/l	96
42) 1,2-Dichloroethane	8.158	62	53923	20.443	ug/l	99
43) Isopropyl Acetate	8.201	43	60985	19.359	ug/l #	87
44) Trichloroethene	8.865	130	50394	21.344	ug/l	95
45) 1,2-Dichloropropane	9.146	63	47626	20.860	ug/l	99
46) Dibromomethane	9.231	93	24877	19.368	ug/l	97
47) Bromodichloromethane	9.426	83	67673	20.778	ug/l	95
48) Methyl methacrylate	9.225	41	27658	18.707	ug/l	96
49) 1,4-Dioxane	9.237	88	5752	378.003	ug/l #	89
51) 4-Methyl-2-Pentanone	9.999	43	150751	95.984	ug/l	100
52) Toluene	10.170	92	122301	20.145	ug/l	98
53) t-1,3-Dichloropropene	10.396	75	60125	19.703	ug/l	97
54) cis-1,3-Dichloropropene	9.859	75	73109	20.581	ug/l	96
55) 1,1,2-Trichloroethane	10.572	97	33009	20.154	ug/l	95
56) Ethyl methacrylate	10.438	69	44052	18.609	ug/l	99
57) 1,3-Dichloropropane	10.719	76	57905	19.947	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	104791	97.502	ug/l	99
59) 2-Hexanone	10.761	43	113080	107.655	ug/l	99
60) Dibromochloromethane	10.908	129	41162	19.776	ug/l	99
61) 1,2-Dibromoethane	11.017	107	30056	20.134	ug/l	95
64) Tetrachloroethene	10.646	164	51847	21.203	ug/l	99
65) Chlorobenzene	11.444	112	127590	20.283	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.517	131	42827	20.210	ug/l	99
67) Ethyl Benzene	11.517	91	236274	20.251	ug/l	99
68) m/p-Xylenes	11.627	106	177595	40.152	ug/l	99
69) o-Xylene	11.956	106	83043	20.025	ug/l	99
70) Styrene	11.969	104	136395	19.898	ug/l	99
71) Bromoform	12.133	173	21024	18.644	ug/l #	99
73) Isopropylbenzene	12.255	105	218088	20.130	ug/l	100
74) N-amyl acetate	12.072	43	51955	19.006	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	33056	18.590	ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	27133m	17.973	ug/l	
77) Bromobenzene	12.529	156	44250	19.355	ug/l	95
78) n-propylbenzene	12.596	91	268379	20.282	ug/l	100
79) 2-Chlorotoluene	12.682	91	140839	20.082	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	169137	19.885	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	12442	19.903	ug/l	92
82) 4-Chlorotoluene	12.779	91	144089	19.916	ug/l	100
83) tert-Butylbenzene	12.999	119	155396	20.356	ug/l	99
84) 1,2,4-Trimethylbenzene	13.041	105	167992	19.747	ug/l	100
85) sec-Butylbenzene	13.176	105	234207	20.032	ug/l	100
86) p-Isopropyltoluene	13.291	119	188849	19.596	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	89632	19.350	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	89737	19.974	ug/l	100
89) n-Butylbenzene	13.615	91	183570	20.077	ug/l	100
90) Hexachloroethane	13.883	117	38158	20.338	ug/l	96
91) 1,2-Dichlorobenzene	13.657	146	77708	19.759	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	4880	18.850	ug/l	96
93) 1,2,4-Trichlorobenzene	14.919	180	40402	18.836	ug/l	97
94) Hexachlorobutadiene	15.023	225	23265	19.652	ug/l	99
95) Naphthalene	15.145	128	74961	18.211	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	35695	19.418	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022513.D
Acq On : 03 Jun 2025 11:15
Operator : SY/MD
Sample : VY0603SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0603SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 06/04/2025
Supervised By :Semsettin Yesilyurt 06/04/2025

Quant Time: Jun 04 04:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

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

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

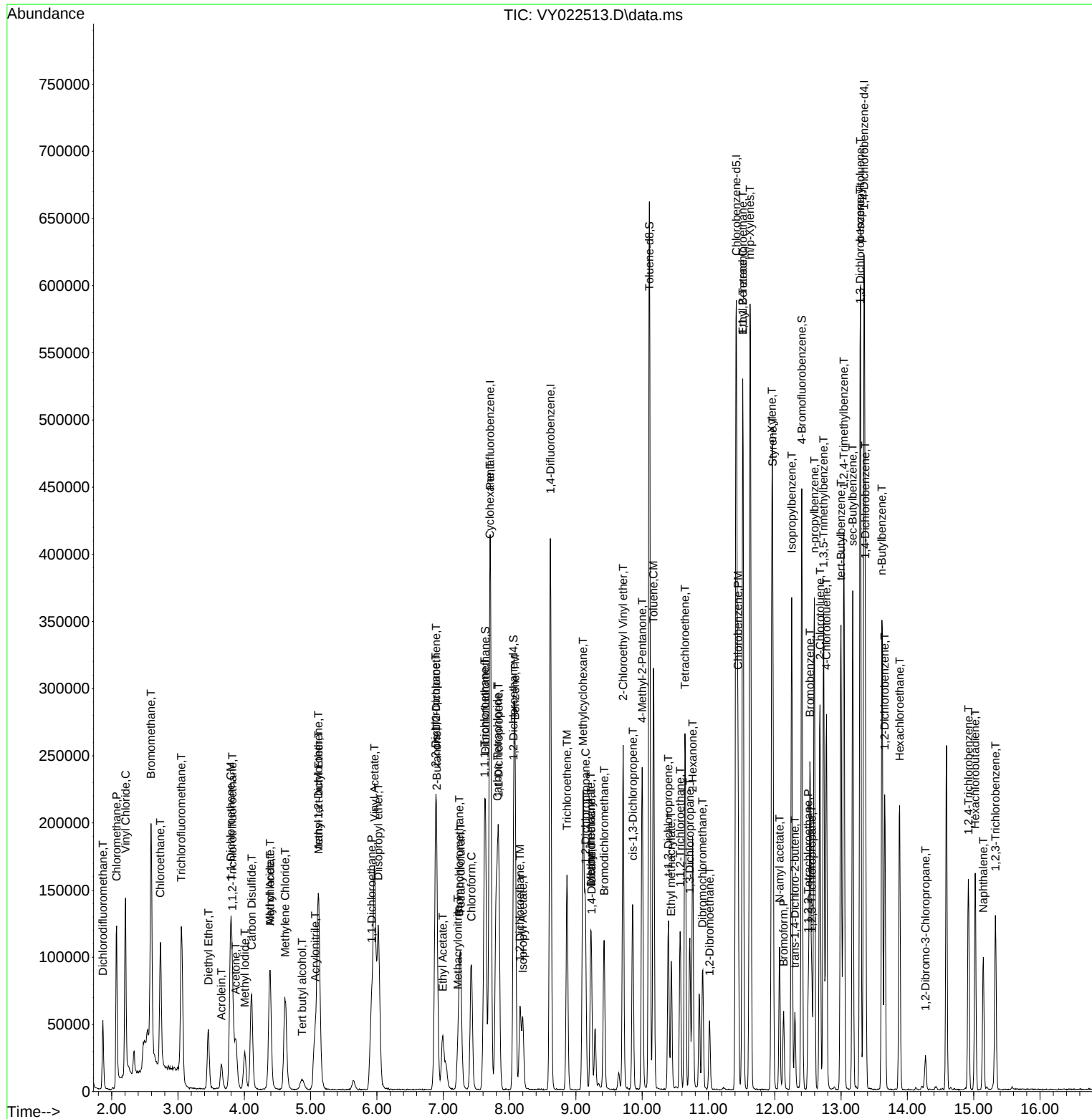
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022513.D
Acq On : 03 Jun 2025 11:15
Operator : SY/MD
Sample : VY0603SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0603SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/04/2025
Supervised By :Semsettin Yesilyurt 06/04/2025

Quant Time: Jun 04 04:09:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022514.D
 Acq On : 03 Jun 2025 11:38
 Operator : SY/MD
 Sample : VY0603SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0603SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/04/2025
 Supervised By :Semsettin Yesilyurt 06/04/2025

Quant Time: Jun 04 04:10:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	196295	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	333757	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	277257	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	127082	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	111211	50.655	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.320%			
35) Dibromofluoromethane	7.634	113	102540	51.473	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.940%			
50) Toluene-d8	10.109	98	423577	52.622	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.240%			
62) 4-Bromofluorobenzene	12.408	95	120123	50.086	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.180%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	39450	22.448	ug/l	92
3) Chloromethane	2.068	50	115283	22.204	ug/l	98
4) Vinyl Chloride	2.202	62	133679	22.195	ug/l	98
5) Bromomethane	2.592	94	122385	21.200	ug/l	99
6) Chloroethane	2.732	64	89448	21.637	ug/l	96
7) Trichlorofluoromethane	3.049	101	108350	21.191	ug/l	98
8) Diethyl Ether	3.458	74	24283	21.088	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	43506	20.203	ug/l	97
10) Methyl Iodide	4.007	142	46266	19.853	ug/l	100
11) Tert butyl alcohol	4.872	59	16220	103.440	ug/l #	73
12) 1,1-Dichloroethene	3.787	96	44732	21.731	ug/l	97
13) Acrolein	3.659	56	20248	103.612	ug/l	95
14) Allyl chloride	4.385	41	66730	20.650	ug/l	98
15) Acrylonitrile	5.055	53	47639	97.686	ug/l	96
16) Acetone	3.879	43	51428	115.345	ug/l	98
17) Carbon Disulfide	4.104	76	140692	21.348	ug/l	99
18) Methyl Acetate	4.391	43	25743	19.498	ug/l	96
19) Methyl tert-butyl Ether	5.116	73	118588	20.454	ug/l	97
20) Methylene Chloride	4.616	84	48900	19.308	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	48144	20.897	ug/l	98
22) Diisopropyl ether	6.018	45	152316	21.175	ug/l	99
23) Vinyl Acetate	5.964	43	430636	101.150	ug/l	99
24) 1,1-Dichloroethane	5.915	63	89303	21.074	ug/l	98
25) 2-Butanone	6.896	43	69185	107.575	ug/l	99
26) 2,2-Dichloropropane	6.890	77	80364	21.464	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	57093	21.440	ug/l	99
28) Bromochloromethane	7.250	49	38497	20.841	ug/l	99
29) Tetrahydrofuran	7.262	42	39069	94.187	ug/l	97
30) Chloroform	7.421	83	90558	21.576	ug/l	98
31) Cyclohexane	7.707	56	83149	19.710	ug/l	96
32) 1,1,1-Trichloroethane	7.622	97	78839	21.159	ug/l	99
36) 1,1-Dichloropropene	7.835	75	67396	20.845	ug/l	100
37) Ethyl Acetate	6.988	43	29632	20.551	ug/l	99
38) Carbon Tetrachloride	7.817	117	69195	20.862	ug/l	97
39) Methylcyclohexane	9.109	83	88301	20.323	ug/l	98
40) Benzene	8.079	78	200930	21.041	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022514.D
 Acq On : 03 Jun 2025 11:38
 Operator : SY/MD
 Sample : VY0603SBSD01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0603SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/04/2025
 Supervised By :Semsettin Yesilyurt 06/04/2025

Quant Time: Jun 04 04:10:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	15352m	18.228	ug/l	
42) 1,2-Dichloroethane	8.164	62	54776	21.007	ug/l	98
43) Isopropyl Acetate	8.201	43	61432	19.728	ug/l	98
44) Trichloroethene	8.866	130	50293	21.548	ug/l	90
45) 1,2-Dichloropropane	9.140	63	46638	20.665	ug/l	99
46) Dibromomethane	9.231	93	25459	20.051	ug/l	98
47) Bromodichloromethane	9.420	83	67575	20.989	ug/l	100
48) Methyl methacrylate	9.225	41	28959	19.815	ug/l	98
49) 1,4-Dioxane	9.237	88	5727	380.729	ug/l	95
51) 4-Methyl-2-Pentanone	9.999	43	150410	96.879	ug/l	100
52) Toluene	10.170	92	123263	20.539	ug/l	96
53) t-1,3-Dichloropropene	10.396	75	60064	19.911	ug/l	94
54) cis-1,3-Dichloropropene	9.859	75	71904	20.477	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	33397	20.628	ug/l	92
56) Ethyl methacrylate	10.438	69	45653	19.510	ug/l	98
57) 1,3-Dichloropropane	10.719	76	58164	20.269	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	110692	104.188	ug/l	99
59) 2-Hexanone	10.762	43	102187	98.414	ug/l	99
60) Dibromochloromethane	10.908	129	41567	20.203	ug/l	100
61) 1,2-Dibromoethane	11.018	107	29473	19.973	ug/l	98
64) Tetrachloroethene	10.646	164	50817	21.307	ug/l	96
65) Chlorobenzene	11.438	112	129702	21.140	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.517	131	43105	20.856	ug/l	99
67) Ethyl Benzene	11.517	91	236352	20.770	ug/l	99
68) m/p-Xylenes	11.627	106	178031	41.269	ug/l	99
69) o-Xylene	11.956	106	83649	20.682	ug/l	100
70) Styrene	11.969	104	137611	20.583	ug/l	99
71) Bromoform	12.133	173	21869	19.883	ug/l #	99
73) Isopropylbenzene	12.255	105	220201	21.105	ug/l	100
74) N-amyl acetate	12.072	43	52673	20.008	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	34208	19.977	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	26292m	18.084	ug/l	
77) Bromobenzene	12.529	156	46055	20.918	ug/l	100
78) n-propylbenzene	12.597	91	269951	21.184	ug/l	99
79) 2-Chlorotoluene	12.682	91	142085	21.037	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	170919	20.866	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.304	75	11460	19.036	ug/l	95
82) 4-Chlorotoluene	12.779	91	141886	20.364	ug/l	96
83) tert-Butylbenzene	12.999	119	156660	21.309	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	170782	20.846	ug/l	99
85) sec-Butylbenzene	13.176	105	235402	20.907	ug/l	99
86) p-Isopropyltoluene	13.292	119	190486	20.525	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	91645	20.544	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	89601	20.709	ug/l	99
89) n-Butylbenzene	13.615	91	189125	21.478	ug/l	99
90) Hexachloroethane	13.877	117	38174	21.128	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	79301	20.938	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	4844	19.429	ug/l	95
93) 1,2,4-Trichlorobenzene	14.919	180	43264	20.945	ug/l	99
94) Hexachlorobutadiene	15.023	225	23654	20.747	ug/l	99
95) Naphthalene	15.145	128	76972	19.418	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	35926	20.294	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
Data File : VY022514.D
Acq On : 03 Jun 2025 11:38
Operator : SY/MD
Sample : VY0603SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0603SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 06/04/2025
Supervised By :Semsettin Yesilyurt 06/04/2025

Quant Time: Jun 04 04:10:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

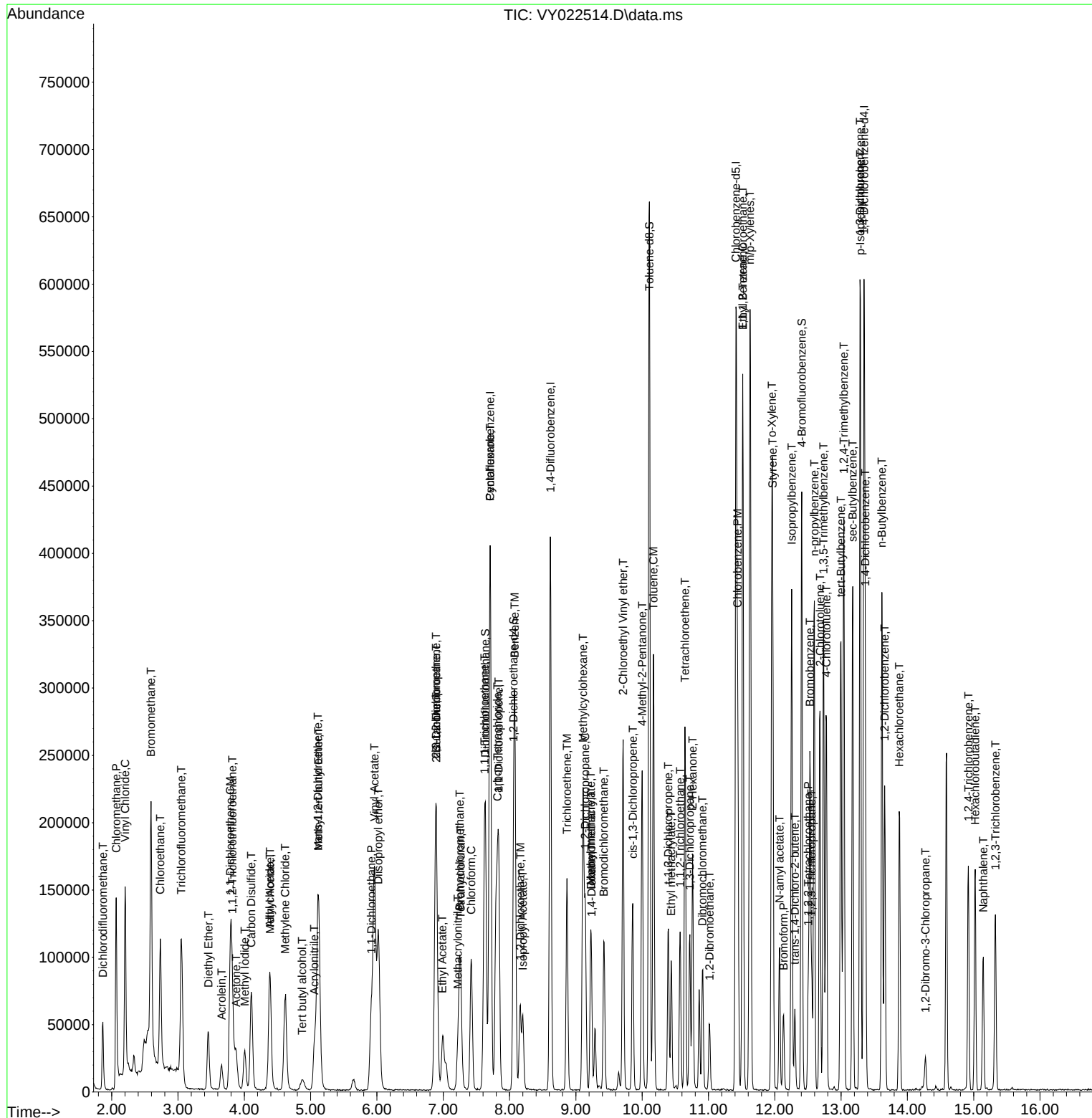
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0603SBSD01

Manual Integrations

Reviewed By :Mahesh Dadoda 06/04/2025
Supervised By :Semsettin Yesilyurt 06/04/2025



Manual Integration Report

Sequence:	vy060225	Instrument	MSVOA_y
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY022491.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:26:25 AM	MMDadoda	6/3/2025 2:38:13 PM	Peak Integrated by Software
VSTDICC005	VY022491.D	1,4-Dioxane	SAM	6/3/2025 8:26:25 AM	MMDadoda	6/3/2025 2:38:13 PM	Peak Integrated by Software
VSTDICC005	VY022491.D	Ethyl Acetate	SAM	6/3/2025 8:26:25 AM	MMDadoda	6/3/2025 2:38:13 PM	Peak Integrated by Software
VSTDICC010	VY022492.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:26:30 AM	MMDadoda	6/3/2025 2:38:15 PM	Peak Integrated by Software
VSTDICC010	VY022492.D	Dibromomethane	SAM	6/3/2025 8:26:30 AM	MMDadoda	6/3/2025 2:38:15 PM	Peak Integrated by Software
VSTDICC010	VY022492.D	Methacrylonitrile	SAM	6/3/2025 8:26:30 AM	MMDadoda	6/3/2025 2:38:15 PM	Peak Integrated by Software
VSTDICC020	VY022493.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:28:00 AM	MMDadoda	6/3/2025 2:38:17 PM	Peak Integrated by Software
VSTDICCC050	VY022494.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:28:05 AM	MMDadoda	6/3/2025 2:38:19 PM	Peak Integrated by Software
VSTDICC100	VY022495.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:26:35 AM	MMDadoda	6/3/2025 2:38:20 PM	Peak Integrated by Software
VSTDICC100	VY022495.D	Methacrylonitrile	SAM	6/3/2025 8:26:35 AM	MMDadoda	6/3/2025 2:38:20 PM	Peak Integrated by Software
VSTDICC150	VY022496.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:28:09 AM	MMDadoda	6/3/2025 2:38:22 PM	Peak Integrated by Software
VSTDICV050	VY022498.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:26:42 AM	MMDadoda	6/3/2025 2:38:25 PM	Peak Integrated by Software
VSTDCCC050	VY022509.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:27:00 AM	MMDadoda	6/3/2025 2:38:29 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:	vy060225	Instrument	MSVOA_y
-----------	----------	------------	---------

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

Manual Integration Report

Sequence:

vy060325

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022511.D	1,2,3-Trichloropropane	MMDadoda	6/4/2025 4:20:50 PM	Sam	6/4/2025 4:23:21 PM	Peak Integrated by Software
VSTDCCC050	VY022511.D	Methacrylonitrile	MMDadoda	6/4/2025 4:20:50 PM	Sam	6/4/2025 4:23:21 PM	Peak Integrated by Software
VY0603SBS01	VY022513.D	1,2,3-Trichloropropane	MMDadoda	6/4/2025 4:20:55 PM	Sam	6/4/2025 4:23:24 PM	Peak Integrated by Software
VY0603SBSD01	VY022514.D	1,2,3-Trichloropropane	MMDadoda	6/4/2025 4:20:57 PM	Sam	6/4/2025 4:23:29 PM	Peak Integrated by Software
VY0603SBSD01	VY022514.D	Methacrylonitrile	MMDadoda	6/4/2025 4:20:57 PM	Sam	6/4/2025 4:23:29 PM	Peak Integrated by Software
VSTDCCC050	VY022536.D	1,2,3-Trichloropropane	MMDadoda	6/4/2025 4:21:00 PM	Sam	6/4/2025 4:23:33 PM	Peak Integrated by Software
VSTDCCC050	VY022536.D	Methacrylonitrile	MMDadoda	6/4/2025 4:21:00 PM	Sam	6/4/2025 4:23:33 PM	Peak Integrated by Software

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY060225

Review By	Maresh Dadoda	Review On	6/3/2025 2:38:36 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/3/2025 2:39:16 PM		
SubDirectory	VY060225	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y060225S.M
STD. NAME		STD REF.#			
Tune/Reschk		VP134084			
Initial Calibration Stds		VP134085,VP134086,VP134087,VP134088,VP134089,VP134090			
CCC		VP134092,VP134093			
Internal Standard/PEM		VP133934			
ICV/I.BLK		VP134091			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022488.D	02 Jun 2025 08:31	SY/MD	Ok
2	VSTDCCC050	VY022489.D	02 Jun 2025 09:08	SY/MD	Not Ok
3	VY0602SBL01	VY022490.D	02 Jun 2025 10:38	SY/MD	Not Ok
4	VSTDICC005	VY022491.D	02 Jun 2025 11:46	SY/MD	Ok,M
5	VSTDICC010	VY022492.D	02 Jun 2025 12:09	SY/MD	Ok,M
6	VSTDICC020	VY022493.D	02 Jun 2025 12:32	SY/MD	Ok,M
7	VSTDICCC050	VY022494.D	02 Jun 2025 12:54	SY/MD	Ok,M
8	VSTDICC100	VY022495.D	02 Jun 2025 13:17	SY/MD	Ok,M
9	VSTDICC150	VY022496.D	02 Jun 2025 13:39	SY/MD	Ok,M
10	VIBLK	VY022497.D	02 Jun 2025 14:03	SY/MD	Ok
11	VSTDICV050	VY022498.D	02 Jun 2025 14:59	SY/MD	Ok,M
12	VY0602SBL02	VY022499.D	02 Jun 2025 16:00	SY/MD	Ok
13	VY0602SBS01	VY022500.D	02 Jun 2025 16:24	SY/MD	Ok,M
14	VY0602SBSD01	VY022501.D	02 Jun 2025 16:47	SY/MD	Ok,M
15	Q2160-02	VY022502.D	02 Jun 2025 17:10	SY/MD	Ok
16	Q2152-01	VY022503.D	02 Jun 2025 17:34	SY/MD	Not Ok
17	Q2153-01RE	VY022504.D	02 Jun 2025 17:57	SY/MD	Confirms
18	Q2147-02	VY022505.D	02 Jun 2025 18:21	SY/MD	Not Ok
19	Q2150-02	VY022506.D	02 Jun 2025 18:44	SY/MD	Ok
20	Q2150-05RE	VY022507.D	02 Jun 2025 19:08	SY/MD	Confirms
21	Q2161-01	VY022508.D	02 Jun 2025 19:31	SY/MD	Not Ok

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY060225

Review By	Mahesh Dadoda	Review On	6/3/2025 2:38:36 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/3/2025 2:39:16 PM		
SubDirectory	VY060225	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y060225S.M
STD. NAME	STD REF.#				
Tune/Reschk	VP134084				
Initial Calibration Stds	VP134085,VP134086,VP134087,VP134088,VP134089,VP134090				
CCC	VP134092,VP134093				
Internal Standard/PEM	VP133934				
ICV/I.BLK	VP134091				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VSTDCCC050	VY022509.D	02 Jun 2025 19:54	SY/MD	Ok,M
----	------------	------------	-------------------	-------	------

M : Manual Integration

A
B
C
D
E
F
G
H
I
J

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY060325

Review By	Mahesh Dadoda	Review On	6/4/2025 4:21:05 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/4/2025 4:23:38 PM
SubDirectory	VY060325	HP Acquire Method	MSVOA_Y
		HP Processing Method	82y060225s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134097		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134098,VP134099 VP133934		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022510.D	03 Jun 2025 09:03	SY/MD	Ok
2	VSTDCCC050	VY022511.D	03 Jun 2025 10:03	SY/MD	Ok,M
3	VY0603SBL01	VY022512.D	03 Jun 2025 10:40	SY/MD	Ok
4	VY0603SBS01	VY022513.D	03 Jun 2025 11:15	SY/MD	Ok,M
5	VY0603SBSD01	VY022514.D	03 Jun 2025 11:38	SY/MD	Ok,M
6	Q2155-01	VY022515.D	03 Jun 2025 12:17	SY/MD	Ok
7	Q2155-02	VY022516.D	03 Jun 2025 12:40	SY/MD	Ok,M
8	Q2185-02	VY022517.D	03 Jun 2025 13:04	SY/MD	Ok
9	Q2185-06	VY022518.D	03 Jun 2025 13:27	SY/MD	Ok
10	Q2172-02	VY022519.D	03 Jun 2025 13:51	SY/MD	Ok
11	Q2168-03	VY022520.D	03 Jun 2025 14:14	SY/MD	ReRun
12	Q2168-07	VY022521.D	03 Jun 2025 14:38	SY/MD	Dilution
13	Q2168-11	VY022522.D	03 Jun 2025 15:01	SY/MD	Dilution
14	Q2182-01	VY022523.D	03 Jun 2025 15:24	SY/MD	ReRun
15	Q2162-01	VY022524.D	03 Jun 2025 15:48	SY/MD	Ok
16	Q2161-02	VY022525.D	03 Jun 2025 16:11	SY/MD	Not Ok
17	Q2176-01	VY022526.D	03 Jun 2025 16:35	SY/MD	Ok
18	Q2176-02	VY022527.D	03 Jun 2025 16:58	SY/MD	Ok
19	Q2176-03	VY022528.D	03 Jun 2025 17:22	SY/MD	Ok
20	Q2176-04	VY022529.D	03 Jun 2025 17:45	SY/MD	Ok
21	Q2176-05	VY022530.D	03 Jun 2025 18:09	SY/MD	Ok

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY060325

Review By	Mahesh Dadoda	Review On	6/4/2025 4:21:05 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/4/2025 4:23:38 PM		
SubDirectory	VY060325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y060225s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134097			
CCC		VP134098,VP134099			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2176-06	VY022531.D	03 Jun 2025 18:32	SY/MD	Ok
23	Q2176-07	VY022532.D	03 Jun 2025 18:56	SY/MD	Ok
24	Q2176-08	VY022533.D	03 Jun 2025 19:19	SY/MD	Ok
25	Q2177-01	VY022534.D	03 Jun 2025 19:42	SY/MD	Ok
26	VIBLK	VY022535.D	03 Jun 2025 20:06	SY/MD	Ok
27	VSTDCCC050	VY022536.D	03 Jun 2025 20:51	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY060225

Review By	Mahesh Dadoda	Review On	6/3/2025 2:38:36 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/3/2025 2:39:16 PM
SubDirectory	VY060225	HP Acquire Method	MSVOA_Y
		HP Processing Method	82Y060225S.M

STD. NAME	STD REF.#
Tune/Reschk	VP134084
Initial Calibration Stds	VP134085,VP134086,VP134087,VP134088,VP134089,VP134090
CCC	VP134092,VP134093
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134091
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022488.D	02 Jun 2025 08:31		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022489.D	02 Jun 2025 09:08	Need ICAL	SY/MD	Not Ok
3	VY0602SBL01	VY0602SBL01	VY022490.D	02 Jun 2025 10:38		SY/MD	Not Ok
4	VSTDICC005	VSTDICC005	VY022491.D	02 Jun 2025 11:46		SY/MD	Ok,M
5	VSTDICC010	VSTDICC010	VY022492.D	02 Jun 2025 12:09		SY/MD	Ok,M
6	VSTDICC020	VSTDICC020	VY022493.D	02 Jun 2025 12:32		SY/MD	Ok,M
7	VSTDICCC050	VSTDICCC050	VY022494.D	02 Jun 2025 12:54		SY/MD	Ok,M
8	VSTDICC100	VSTDICC100	VY022495.D	02 Jun 2025 13:17		SY/MD	Ok,M
9	VSTDICC150	VSTDICC150	VY022496.D	02 Jun 2025 13:39		SY/MD	Ok,M
10	VIBLK	VIBLK	VY022497.D	02 Jun 2025 14:03		SY/MD	Ok
11	VSTDICV050	ICVVY060225	VY022498.D	02 Jun 2025 14:59	Icv Fail For DOD For Com.# 18	SY/MD	Ok,M
12	VY0602SBL02	VY0602SBL02	VY022499.D	02 Jun 2025 16:00		SY/MD	Ok
13	VY0602SBS01	VY0602SBS01	VY022500.D	02 Jun 2025 16:24		SY/MD	Ok,M
14	VY0602SBSD01	VY0602SBSD01	VY022501.D	02 Jun 2025 16:47		SY/MD	Ok,M
15	Q2160-02	TP04-MHG-VOC	VY022502.D	02 Jun 2025 17:10	vial A	SY/MD	Ok
16	Q2152-01	OK-02-05292025	VY022503.D	02 Jun 2025 17:34	Not Purged,vial B	SY/MD	Not Ok
17	Q2153-01RE	TR-04-0592025RE	VY022504.D	02 Jun 2025 17:57	Surrogate Fail;Internal Standard Fail, vial B	SY/MD	Confirms

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY060225

Review By	Mahesh Dadoda	Review On	6/3/2025 2:38:36 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/3/2025 2:39:16 PM		
SubDirectory	VY060225	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y060225S.M
STD. NAME	STD REF.#				
Tune/Reschk	VP134084				
Initial Calibration Stds	VP134085,VP134086,VP134087,VP134088,VP134089,VP134090				
CCC	VP134092,VP134093				
Internal Standard/PEM	VP133934				
ICV/I.BLK	VP134091				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

18	Q2147-02	VOC	VY022505.D	02 Jun 2025 18:21	Not purge,vial B	SY/MD	Not Ok
19	Q2150-02	TP-42	VY022506.D	02 Jun 2025 18:44	vial B	SY/MD	Ok
20	Q2150-05RE	TP-47RE	VY022507.D	02 Jun 2025 19:08	Internal Standard Fail,vial B	SY/MD	Confirms
21	Q2161-01	B27-SOIL-SAMPLE	VY022508.D	02 Jun 2025 19:31	vial-B Not purge	SY/MD	Not Ok
22	VSTDCCC050	VSTDCCC050EC	VY022509.D	02 Jun 2025 19:54		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY060325

Review By	Mahesh Dadoda	Review On	6/4/2025 4:21:05 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/4/2025 4:23:38 PM		
SubDirectory	VY060325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y060225s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134097			
CCC		VP134098,VP134099			
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	VY022510.D	03 Jun 2025 09:03		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022511.D	03 Jun 2025 10:03		SY/MD	Ok,M
3	VY0603SBL01	VY0603SBL01	VY022512.D	03 Jun 2025 10:40		SY/MD	Ok
4	VY0603SBS01	VY0603SBS01	VY022513.D	03 Jun 2025 11:15		SY/MD	Ok,M
5	VY0603SBSD01	VY0603SBSD01	VY022514.D	03 Jun 2025 11:38		SY/MD	Ok,M
6	Q2155-01	446	VY022515.D	03 Jun 2025 12:17	vial-A	SY/MD	Ok
7	Q2155-02	447-SOLID	VY022516.D	03 Jun 2025 12:40	vial-A	SY/MD	Ok,M
8	Q2185-02	TP02-MHB-VOC	VY022517.D	03 Jun 2025 13:04	vial-A	SY/MD	Ok
9	Q2185-06	TP01-MHB-VOC	VY022518.D	03 Jun 2025 13:27	vial-A	SY/MD	Ok
10	Q2172-02	TP06-MHQ-VOC	VY022519.D	03 Jun 2025 13:51	vial-A	SY/MD	Ok
11	Q2168-03	A3	VY022520.D	03 Jun 2025 14:14	vial-A Internal Standard Fail; Surrogate Fail	SY/MD	ReRun
12	Q2168-07	B3	VY022521.D	03 Jun 2025 14:38	vial-A Need MeOH;Internal Standard Fail	SY/MD	Dilution
13	Q2168-11	C2	VY022522.D	03 Jun 2025 15:01	vial-A Need MeOH;Internal Standard Fail	SY/MD	Dilution
14	Q2182-01	OR-03-06022025	VY022523.D	03 Jun 2025 15:24	vial-A Internal Standard Fail	SY/MD	ReRun
15	Q2162-01	BP-VPB-182-GW-580-5	VY022524.D	03 Jun 2025 15:48	vial-A	SY/MD	Ok
16	Q2161-02	B28-SOIL-SAMPLE	VY022525.D	03 Jun 2025 16:11	vial-B Not purge	SY/MD	Not Ok
17	Q2176-01	TP-46	VY022526.D	03 Jun 2025 16:35	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY060325

Review By	Mahesh Dadoda	Review On	6/4/2025 4:21:05 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/4/2025 4:23:38 PM		
SubDirectory	VY060325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y060225s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134097			
CCC		VP134098,VP134099			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

18	Q2176-02	TP-56	VY022527.D	03 Jun 2025 16:58	vial-A	SY/MD	Ok
19	Q2176-03	TP-25	VY022528.D	03 Jun 2025 17:22	vial-A	SY/MD	Ok
20	Q2176-04	TP-26	VY022529.D	03 Jun 2025 17:45	vial-A	SY/MD	Ok
21	Q2176-05	TP-28	VY022530.D	03 Jun 2025 18:09	vial-A	SY/MD	Ok
22	Q2176-06	TP-27	VY022531.D	03 Jun 2025 18:32	vial-A	SY/MD	Ok
23	Q2176-07	TP-31	VY022532.D	03 Jun 2025 18:56	vial-A	SY/MD	Ok
24	Q2176-08	TP-65	VY022533.D	03 Jun 2025 19:19	vial-A	SY/MD	Ok
25	Q2177-01	B-187-SB00	VY022534.D	03 Jun 2025 19:42	vial-A	SY/MD	Ok
26	VIBLK	VIBLK	VY022535.D	03 Jun 2025 20:06		SY/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VY022536.D	03 Jun 2025 20:51		SY/MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	Q2176	OrderDate:	5/30/2025 4:04:00 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
Q2176-01	TP-46	SOIL	VOC-TCLVOA-10	8260D	05/28/25		06/03/25	05/30/25
Q2176-02	TP-56	SOIL	VOC-TCLVOA-10	8260D	05/29/25		06/03/25	05/30/25
Q2176-03	TP-25	SOIL	VOC-TCLVOA-10	8260D	05/29/25		06/03/25	05/30/25
Q2176-04	TP-26	SOIL	VOC-TCLVOA-10	8260D	05/29/25		06/03/25	05/30/25
Q2176-05	TP-28	SOIL	VOC-TCLVOA-10	8260D	05/29/25		06/03/25	05/30/25
Q2176-06	TP-27	SOIL	VOC-TCLVOA-10	8260D	05/29/25		06/03/25	05/30/25
Q2176-07	TP-31	SOIL	VOC-TCLVOA-10	8260D	05/29/25		06/03/25	05/30/25
Q2176-08	TP-65	SOIL	VOC-TCLVOA-10	8260D	05/30/25		06/03/25	05/30/25